

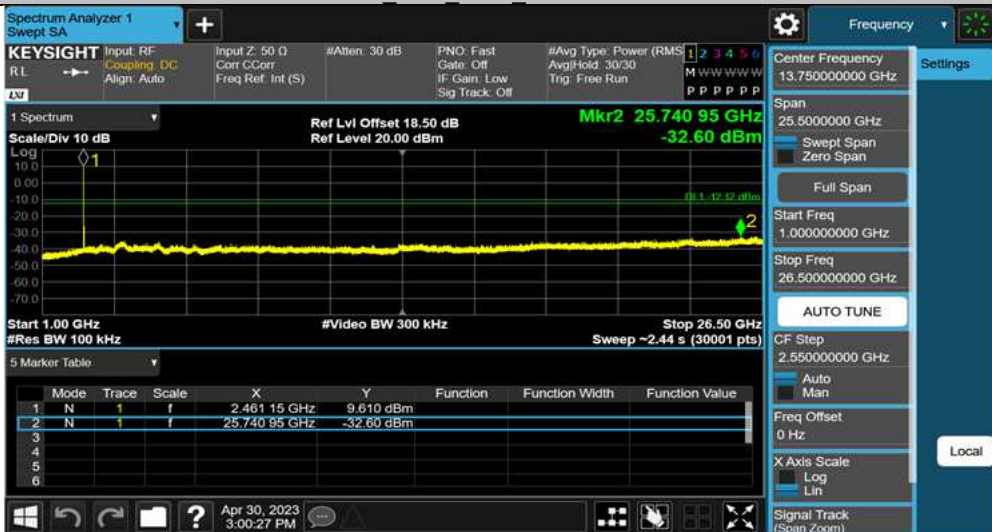
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



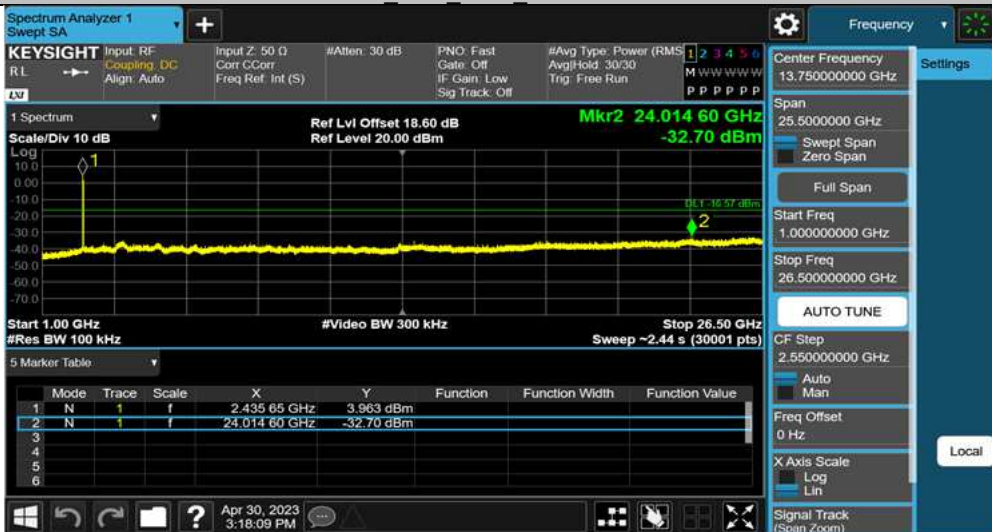
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20MIMO_Ant1_2412_0~Reference



11N20MIMO_Ant1_2412_30~1000



11N20MIMO_Ant1_2412_1000~26500



11N20MIMO_Ant1_2437_0~Reference



11N20MIMO_Ant1_2437_30~1000



11N20MIMO_Ant1_2437_1000~26500



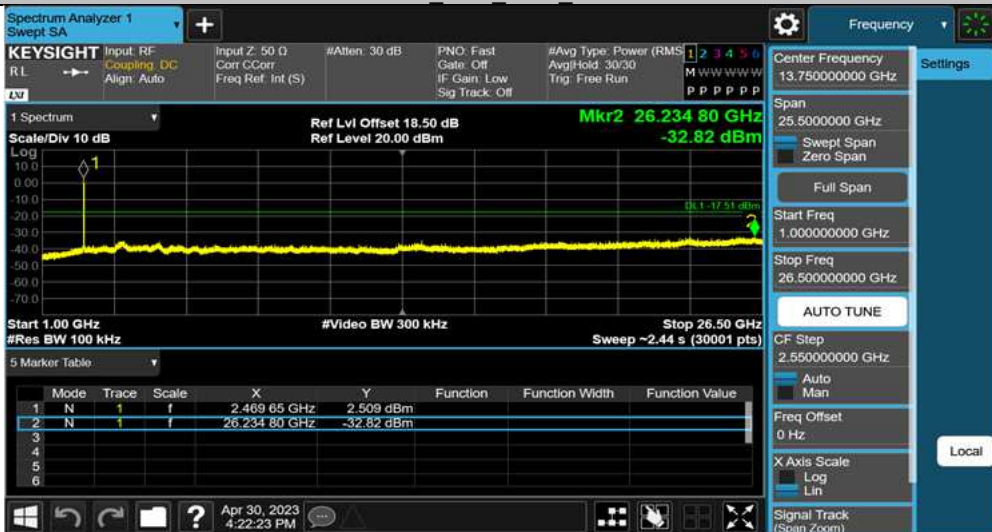
11N20MIMO_Ant1_2462_0~Reference



11N20MIMO_Ant1_2462_30~1000



11N20MIMO_Ant1_2462_1000~26500



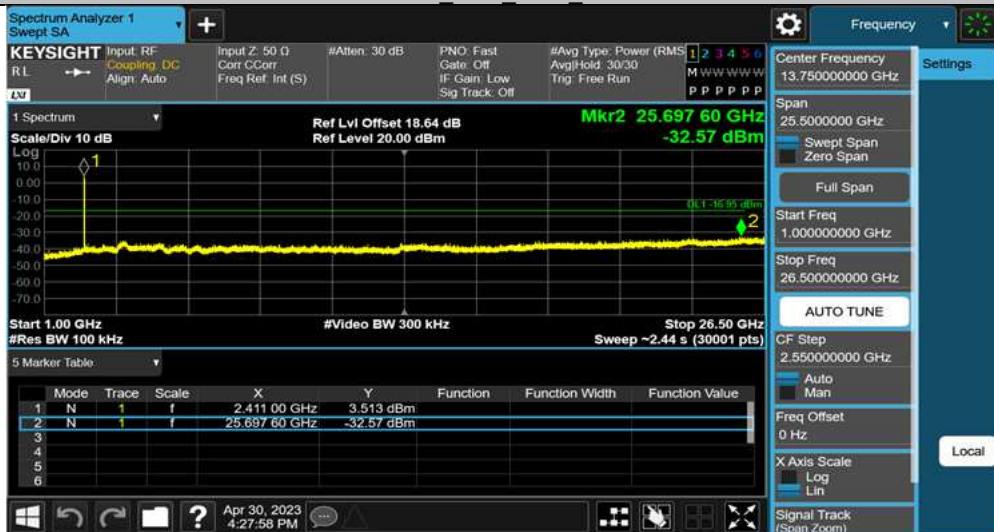
11AX20MIMO Ant1 2412 0~Reference



11AX20MIMO Ant1 2412 30~1000



11AX20MIMO Ant1 2412 1000~26500



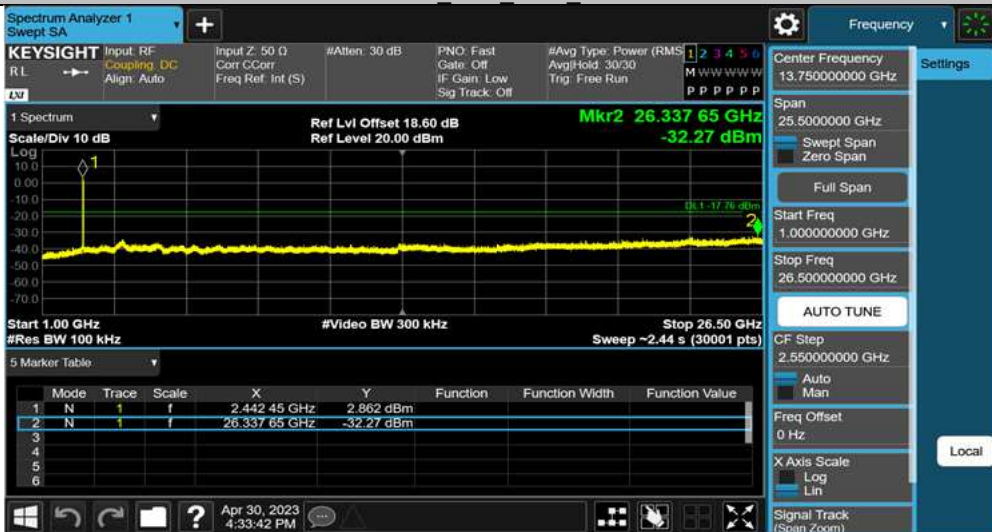
11AX20MIMO Ant1 2437 0~Reference



11AX20MIMO Ant1 2437 30~1000



11AX20MIMO Ant1 2437 1000~26500



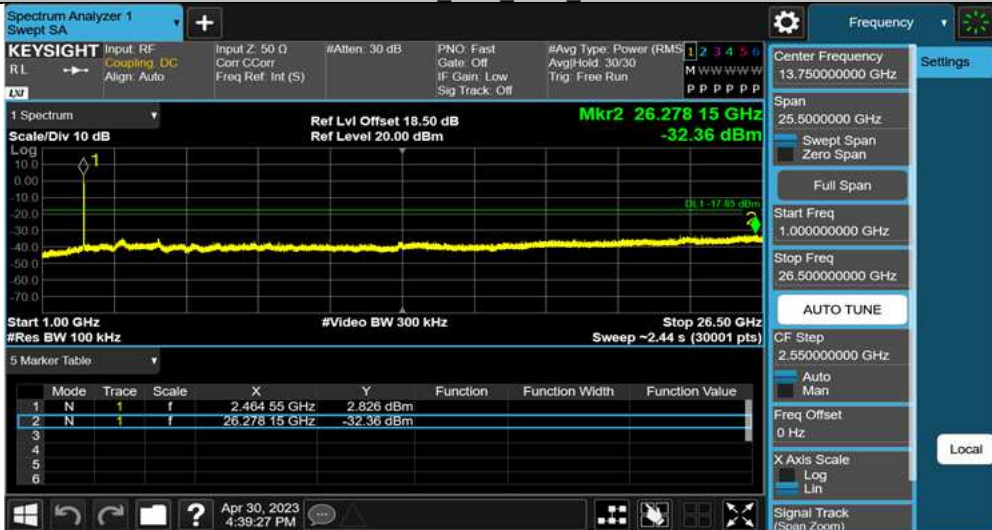
11AX20MIMO Ant1 2462 0~Reference



11AX20MIMO Ant1 2462 30~1000

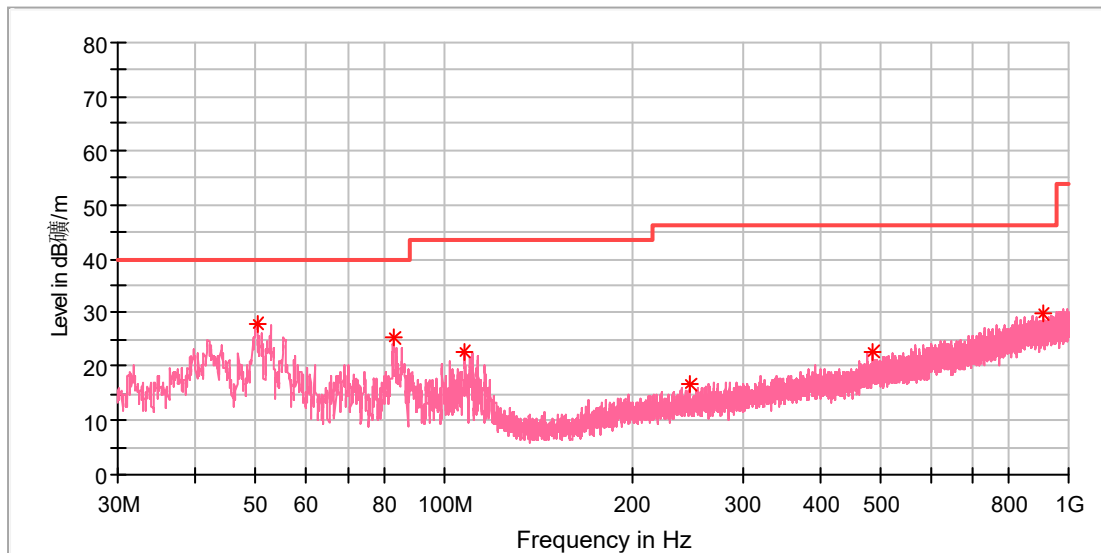


11AX20MIMO Ant1 2462 1000~26500



EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.176000	27.81	40.00	12.19	100.0	V	230.0	-18.3
82.962000	25.32	40.00	14.68	100.0	V	175.0	-22.8
107.697000	22.70	43.50	20.80	100.0	V	297.0	-18.9
247.522500	16.83	46.00	29.17	100.0	V	230.0	-17.5
484.348000	22.81	46.00	23.19	100.0	V	48.0	-12.1
909.741500	29.68	46.00	16.32	100.0	V	0.0	-4.9

Final Result

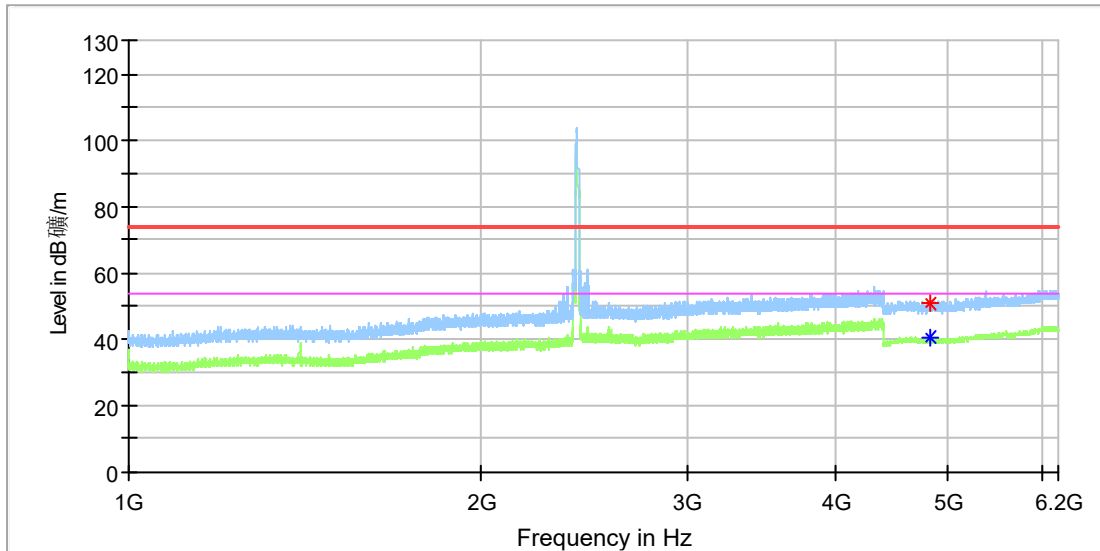
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

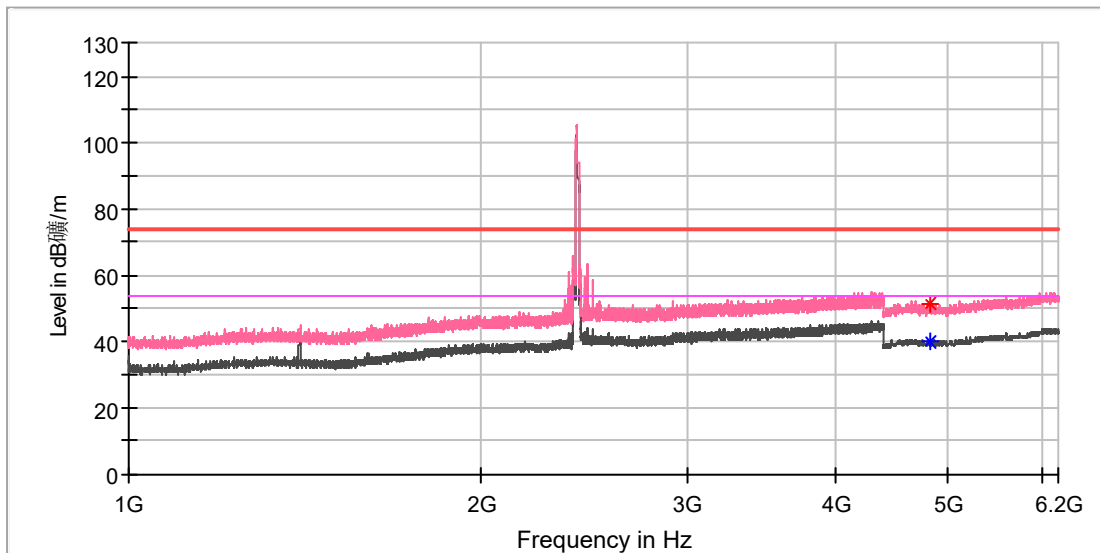
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4814.500000	51.04	---	74.00	22.96	150.0	H	25.0	11.8
4824.000000	---	40.62	54.00	13.38	150.0	H	102.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

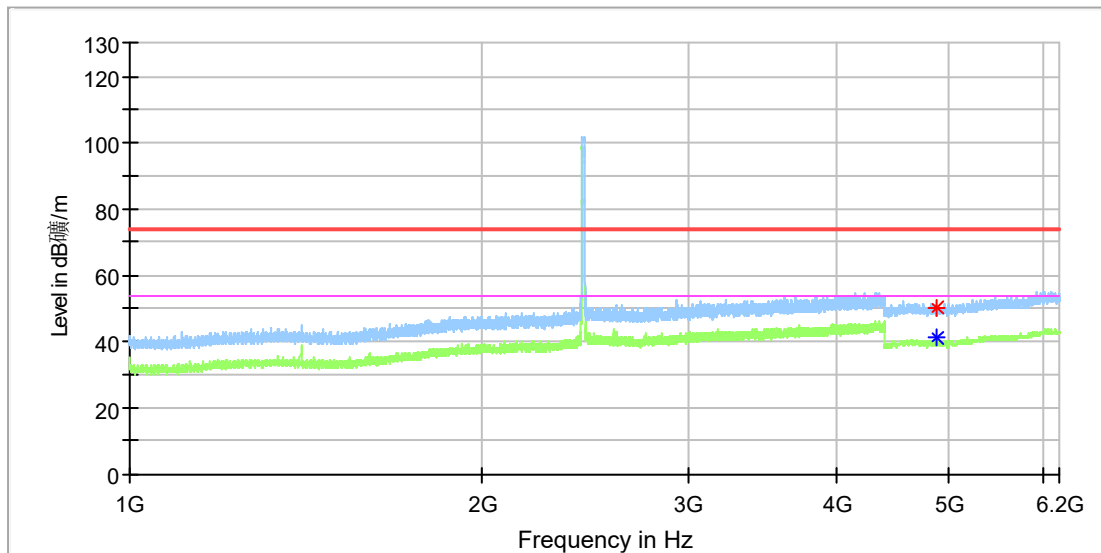
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	40.11	54.00	13.89	150.0	V	84.0	11.8
4824.500000	51.18	---	74.00	22.82	150.0	V	84.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

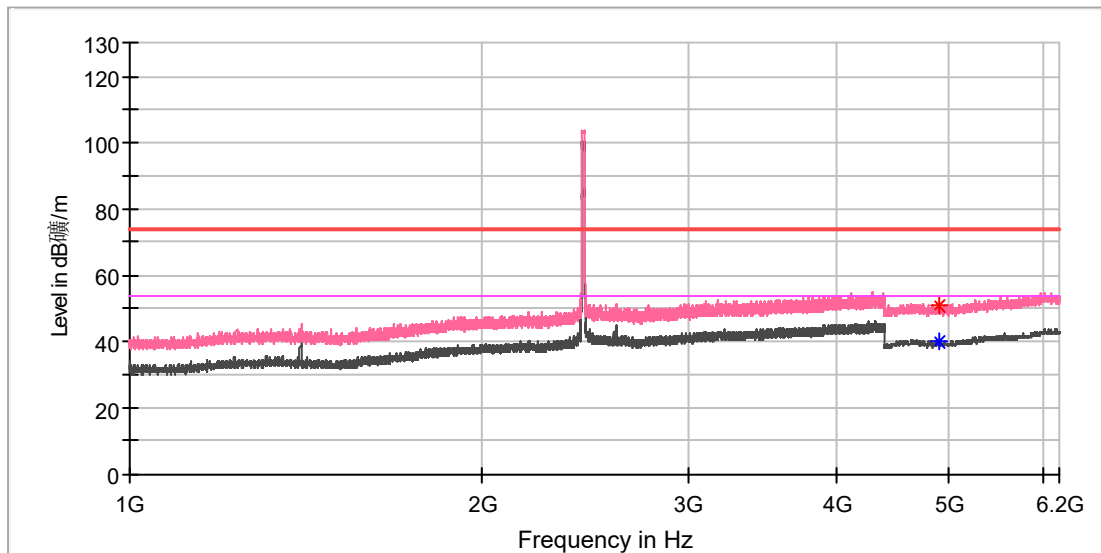
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	41.15	54.00	12.85	150.0	H	202.0	11.8
4881.000000	50.44	---	74.00	23.56	150.0	H	160.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

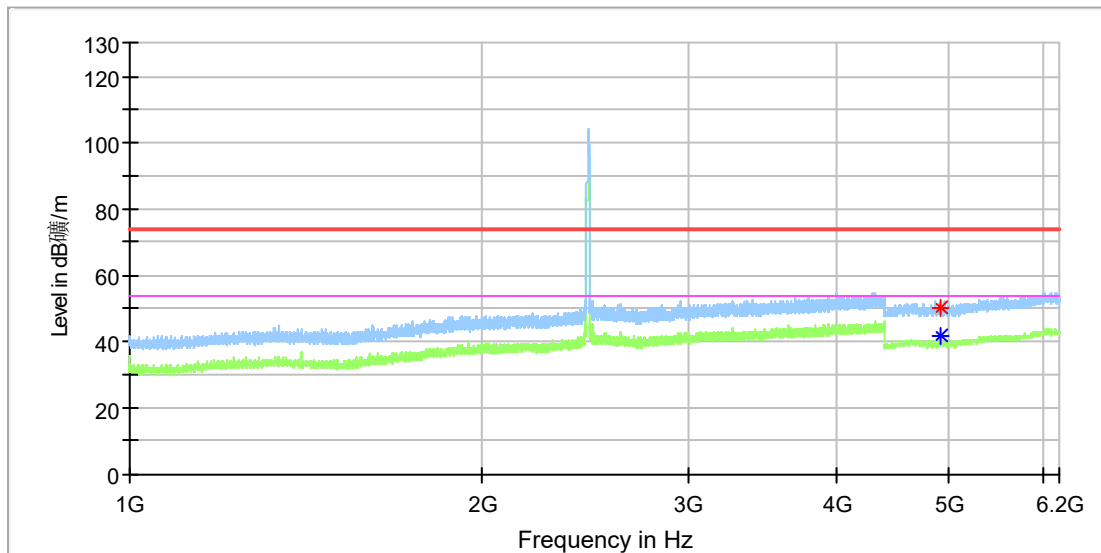
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4896.000000	50.79	---	74.00	23.21	150.0	V	82.0	11.8
4900.500000	---	39.80	54.00	14.20	150.0	V	120.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch11
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

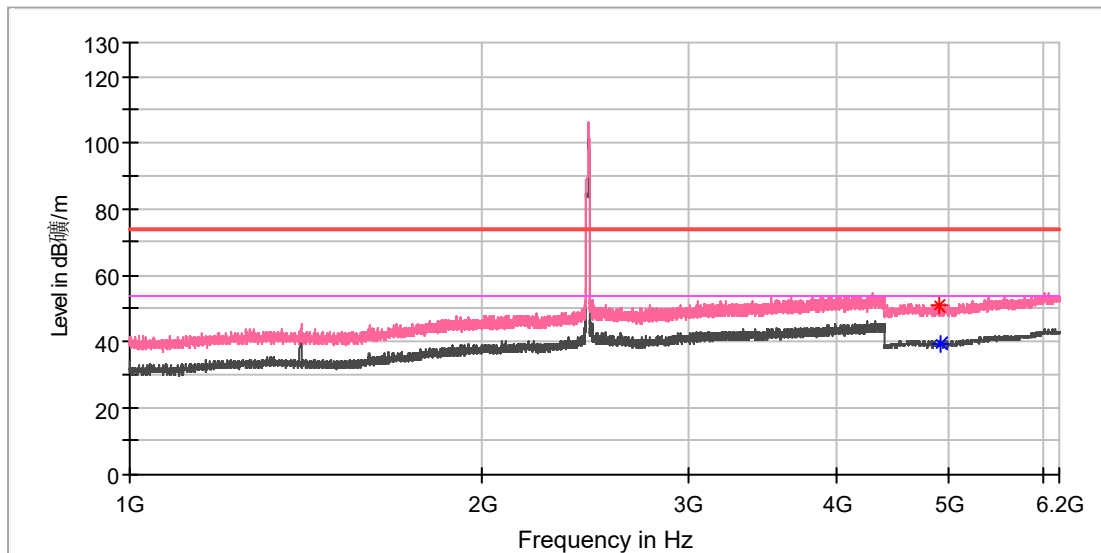
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	41.90	54.00	12.10	150.0	H	194.0	11.8
4924.500000	50.25	---	74.00	23.75	150.0	H	194.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11b_Ch11
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

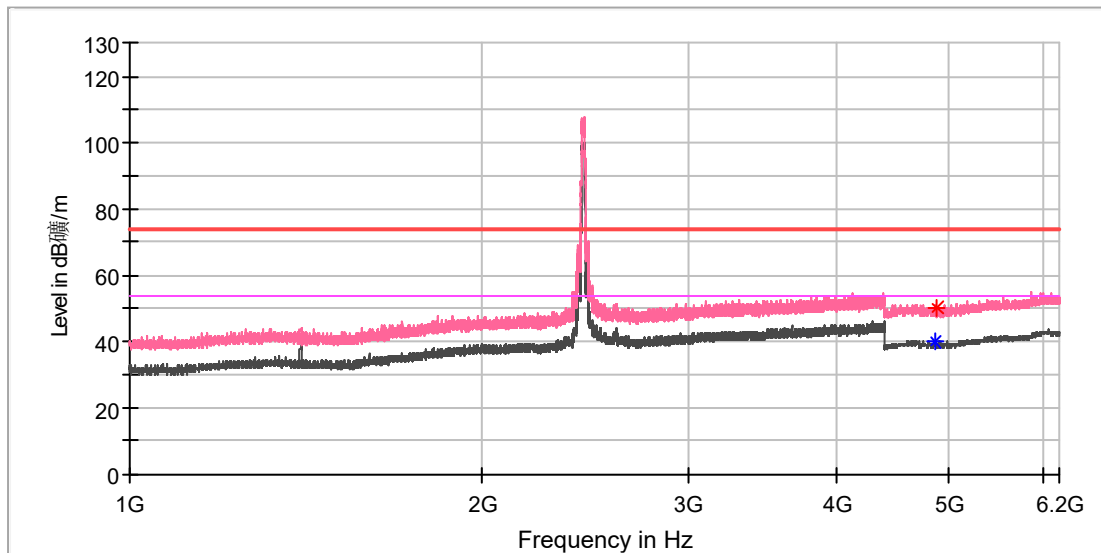
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4904.000000	50.52	---	74.00	23.48	150.0	V	36.0	11.8
4915.500000	---	39.58	54.00	14.42	150.0	V	218.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11g_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

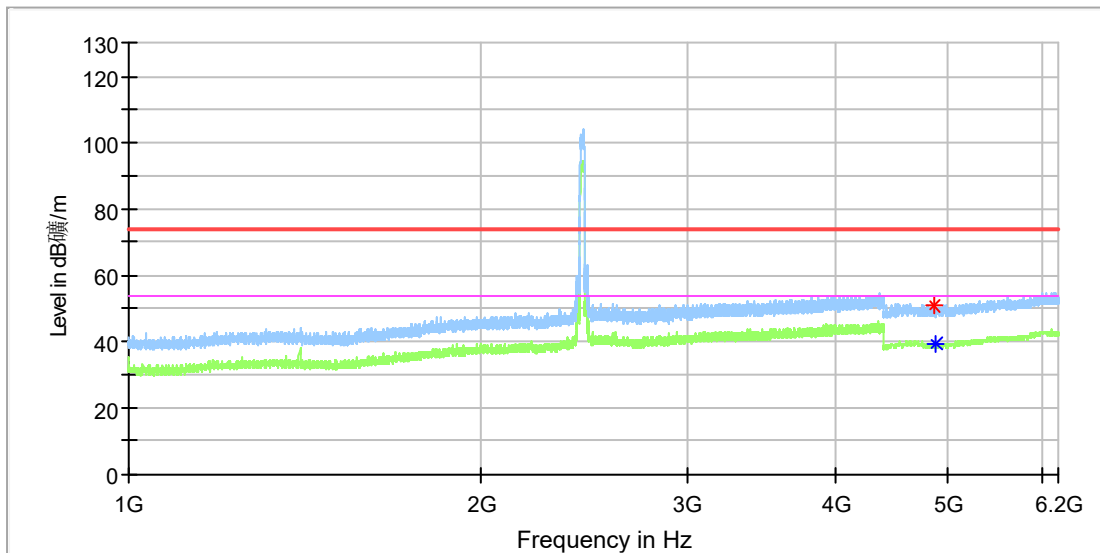
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4866.500000	---	39.76	54.00	14.24	150.0	V	266.0	11.8
4871.500000	50.43	---	74.00	23.57	150.0	V	160.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11ax20_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

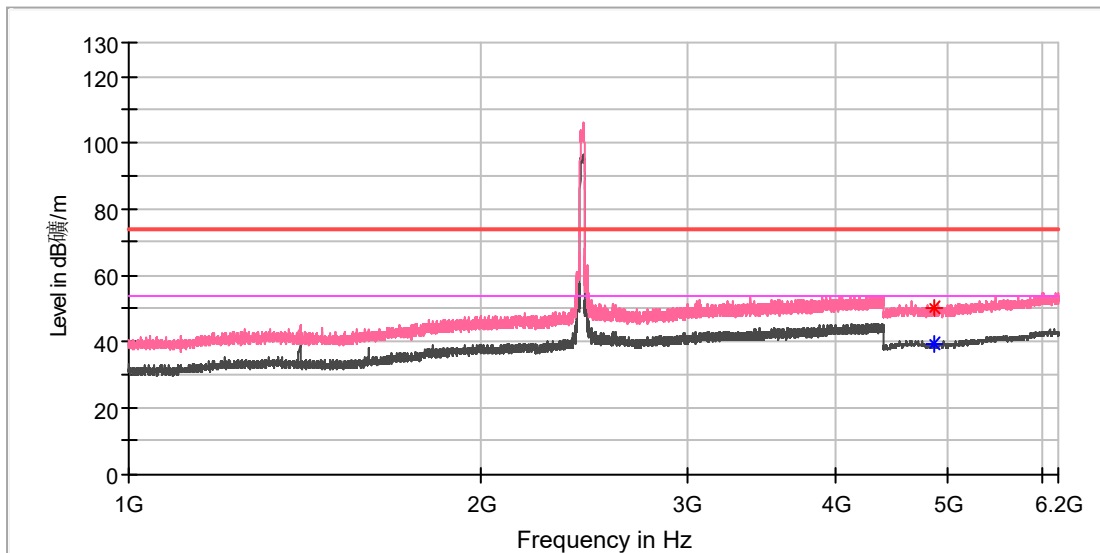
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4865.000000	50.83	---	74.00	23.17	150.0	H	252.0	11.8
4870.500000	---	39.31	54.00	14.69	150.0	H	102.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11ax20_Ch6
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.000000	50.15	---	74.00	23.85	150.0	V	89.0	11.8
4863.000000	---	39.30	54.00	14.70	150.0	V	36.0	11.8

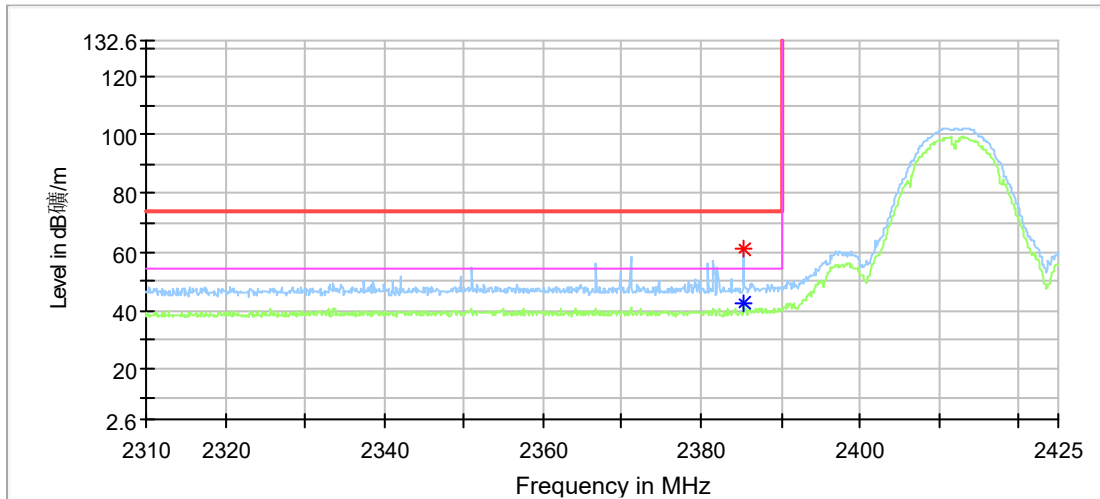
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	ThinkBook Wireless Dock
Model:	L01WC014-CS-H
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168421836/A003448177-005
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Comment

Critical Freqs

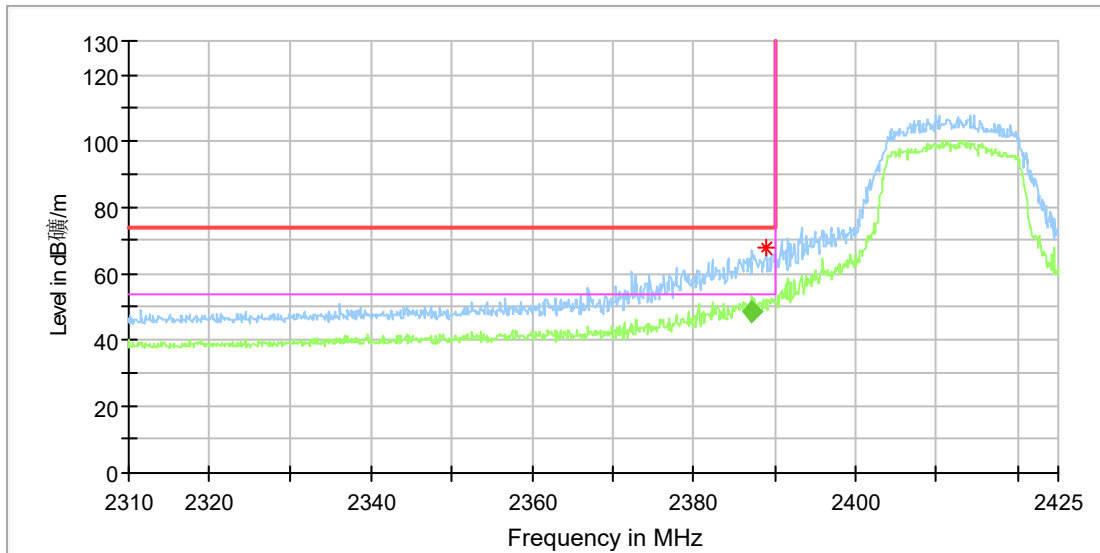
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.300000	---	42.70	54.00	11.30	150.0	H	125.0	7.0
2385.300000	61.39	---	74.00	12.61	150.0	H	125.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11g_Ch1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

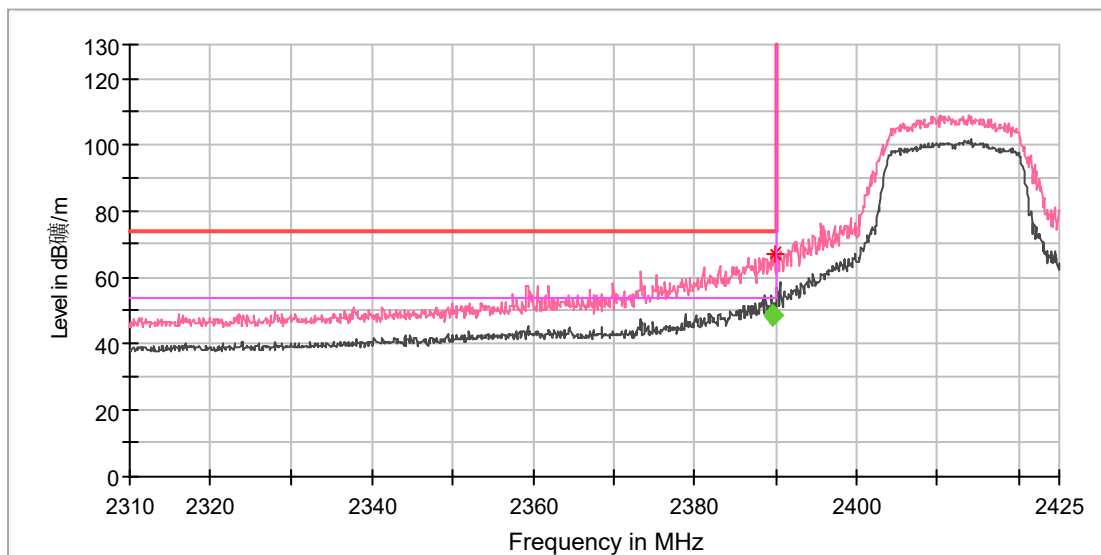
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.900000	67.81	---	74.00	6.19	150.0	H	56.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.177300	48.64	54.00	5.36	147.0	H	123.0	7.0

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11g_Ch1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

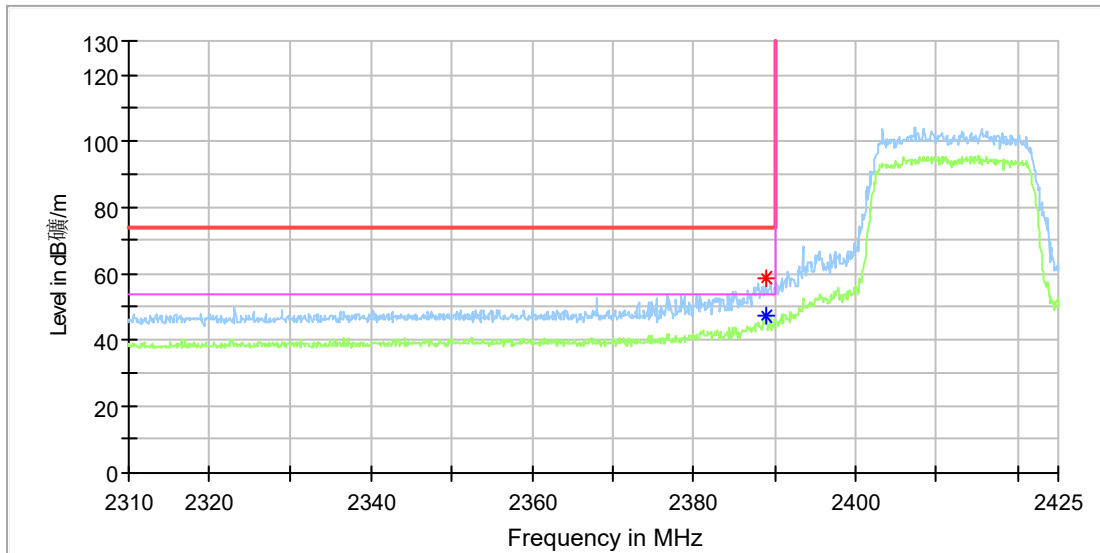
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.700000	67.29	---	74.00	6.71	150.0	V	83.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.473550	48.51	54.00	5.49	151.0	V	96.0	7.0

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11ax20_Ch1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

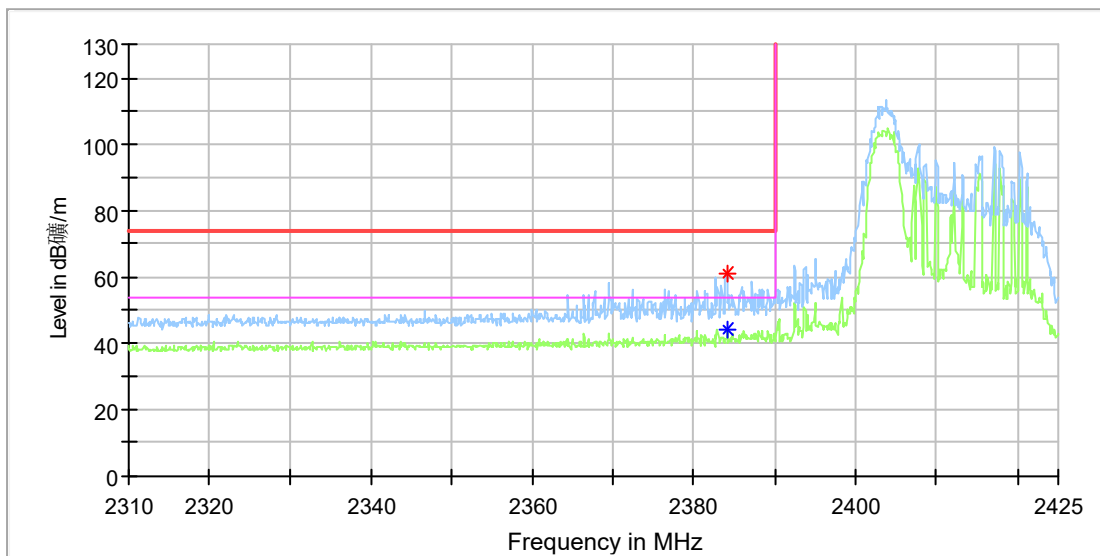
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.800000	58.43	---	74.00	15.57	150.0	H	122.0	7.0
2388.900000	---	46.92	54.00	7.08	150.0	H	254.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: ThinkBook Wireless Dock
 Model: L01WC014-CS-H
 Test Mode: WIFI 2.4G_11ax20_Ch1_26 tone_RU1
 Order No/Sample No: 168421836/A003448177-005
 Test Voltage: 120V/60Hz
 Remark: Temp 23 Humi:56%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.000000	61.32	---	74.00	12.68	150.0	H	302.0	7.0
2384.100000	---	44.41	54.00	9.59	150.0	H	302.0	7.0

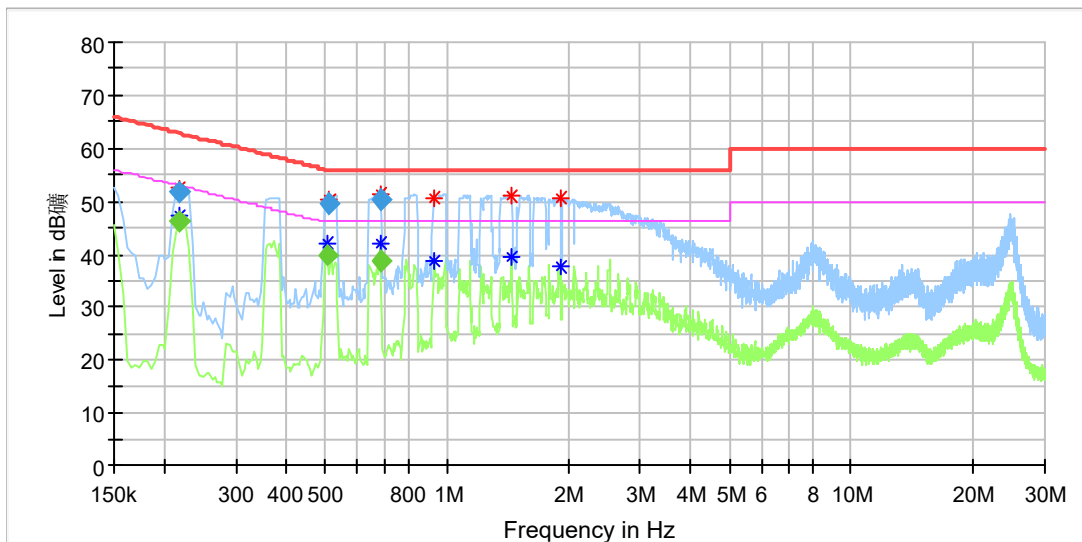
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: ThinkBook Wireless Dock
 Order No: 168421836(P01020675)
 Model: L01WC014-CS-H
 Test Mode: Normal Operation + Type-C connected to Hard disk + Wireless Operation 2.4/5GHz Wi-Fi + Charge to Phone via Qi
 Test Voltage: AC 120V/ 60Hz
 Test By:/Review By: Soloman Wu/Gary Chen
 Standard: FCC Part 15
 Tem./Hum./Pressure: 23.0°C/50.8%/101kPa
 Remark: SR1



Critical Freqs

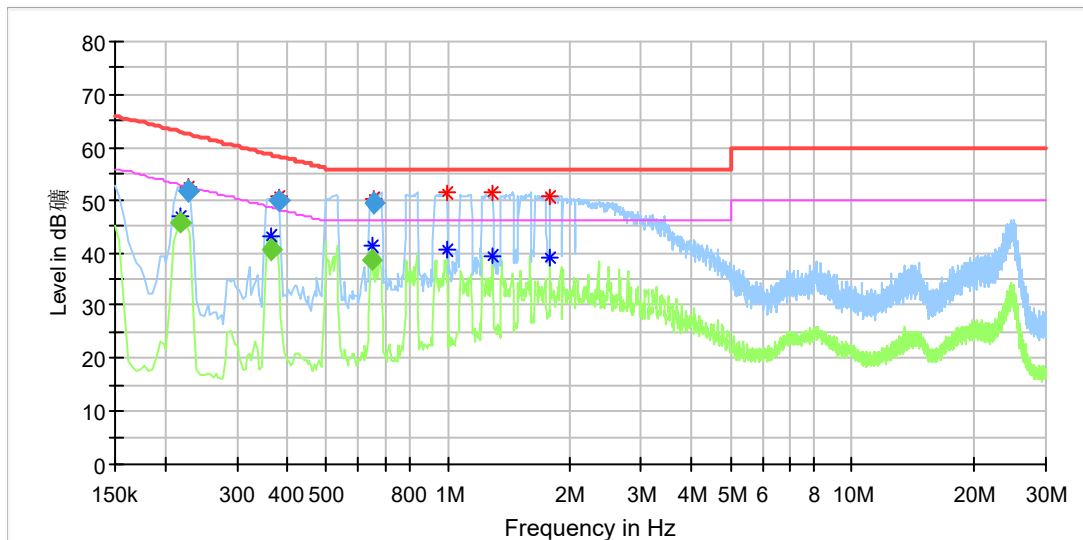
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.216500	52.38	---	62.90	10.51	L1	9.8
0.216500	---	47.41	52.90	5.48	L1	9.8
0.504000	---	42.11	46.00	3.89	L1	10.0
0.513500	50.19	---	56.00	5.81	L1	10.0
0.682500	---	42.07	46.00	3.93	L1	9.9
0.682500	51.18	---	56.00	4.82	L1	9.9
0.924000	50.63	---	56.00	5.37	L1	9.8
0.928000	---	38.70	46.00	7.30	L1	9.8
1.436000	50.87	---	56.00	5.13	L1	9.9
1.440000	---	39.59	46.00	6.41	L1	9.9
1.904000	---	37.53	46.00	8.47	L1	9.9
1.904000	50.71	---	56.00	5.29	L1	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.216500	---	46.20	52.95	6.75	1000.0	9.000	L1	9.8
0.216500	51.72	---	62.95	11.23	1000.0	9.000	L1	9.8
0.504000	---	39.72	46.00	6.28	1000.0	9.000	L1	10.0
0.513500	49.45	---	56.00	6.55	1000.0	9.000	L1	10.0
0.682500	---	38.55	46.00	7.45	1000.0	9.000	L1	9.9
0.682500	50.21	---	56.00	5.79	1000.0	9.000	L1	9.9

EUT Information

EUT Name: ThinkBook Wireless Dock
 Order No: 168421836(P01020675)
 Model: L01WC014-CS-H
 Test Mode: Normal Operation + Type-C connected to Hard disk + Wireless Operation 2.4/5GHz Wi-Fi + Charge to Phone via Qi
 Test Voltage: AC 120V/ 60Hz
 Test By./Review By: Soloman Wu/Gary Chen
 Standard: FCC Part 15
 Tem./Hum./Pressure: 23.0°C/50.8%/101kPa
 Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.216500	---	47.00	52.90	5.89	N	9.7
0.227500	52.59	---	63.05	10.46	N	9.7
0.364500	---	43.24	48.32	5.08	N	9.8
0.380500	50.63	---	58.32	7.69	N	9.8
0.646500	---	41.47	46.00	4.53	N	9.9
0.657500	50.42	---	56.00	5.58	N	9.9
0.996000	51.17	---	56.00	4.83	N	9.7
0.996000	---	40.52	46.00	5.48	N	9.7
1.288000	51.19	---	56.00	4.81	N	9.8
1.288000	---	39.40	46.00	6.60	N	9.8
1.784000	50.47	---	56.00	5.53	N	10.0
1.784000	---	39.09	46.00	6.91	N	10.0

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.216500	---	45.93	52.95	7.02	1000.0	9.000	N	9.7
0.227500	51.57	---	62.54	10.97	1000.0	9.000	N	9.7
0.364500	---	40.61	48.63	8.01	1000.0	9.000	N	9.8
0.380500	49.75	---	58.27	8.52	1000.0	9.000	N	9.8
0.646500	---	38.84	46.00	7.16	1000.0	9.000	N	9.9
0.657500	49.37	---	56.00	6.63	1000.0	9.000	N	9.9