

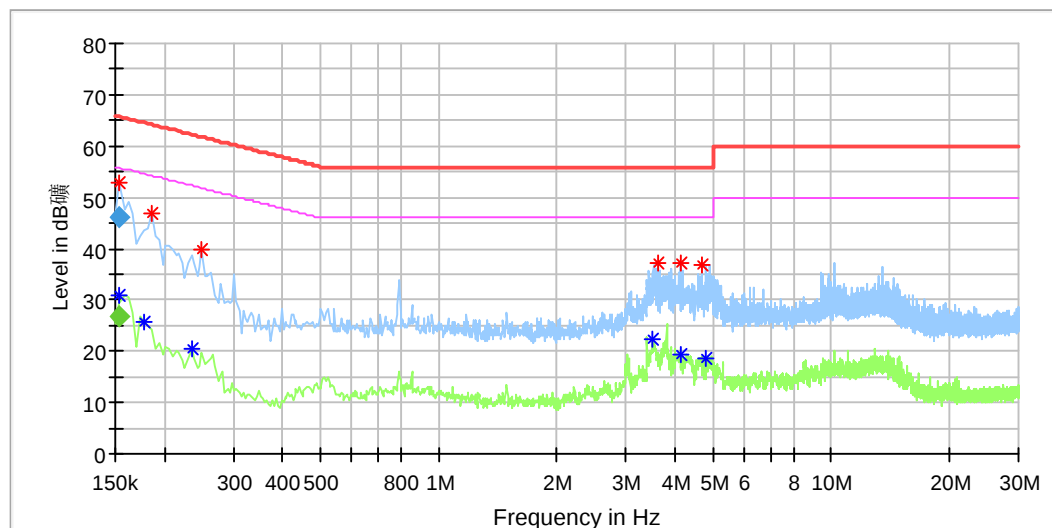
Appendix B: Test Results of FCC 15B

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Appendix B.1: Test Plots of Conducted Emission on AC Mains

EUT Information

EUT Name:	Lenovo USB-A Unified Pairing Receiver
Order Number:	168321870
Model:	RG95
Test Mode:	On (2.4GHz)
Test Voltage:	120Vac, 60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Remark:	SR1



Critical Freqs

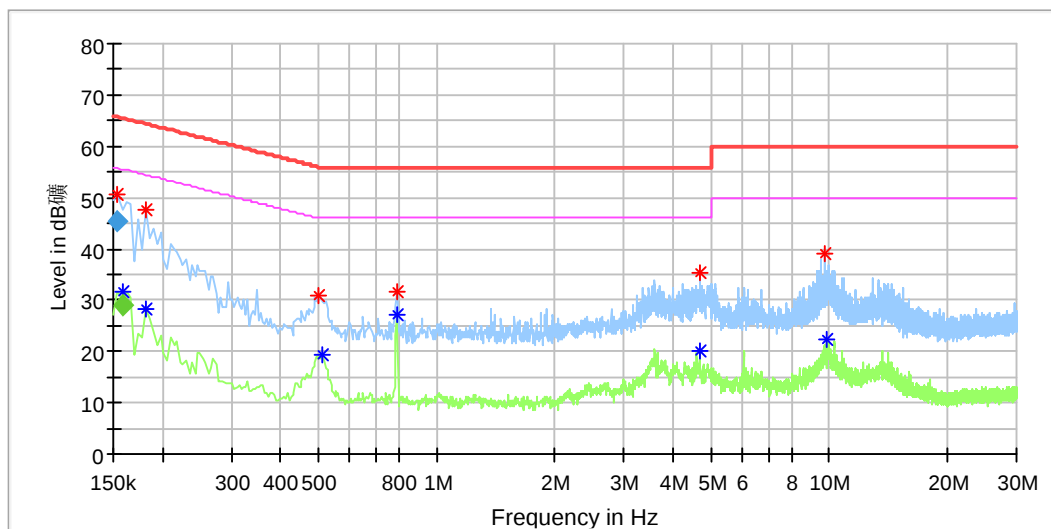
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.153500	---	30.77	55.57	24.80	L1	9.9
0.154000	52.96	---	65.78	12.82	L1	9.9
0.178000	---	25.72	54.58	28.86	L1	9.9
0.186000	46.95	---	64.21	17.26	L1	9.9
0.234000	---	20.52	52.31	31.78	L1	9.9
0.250000	39.69	---	61.76	22.07	L1	9.9
3.518000	---	22.21	46.00	23.79	L1	10.2
3.622000	37.21	---	56.00	18.79	L1	10.2
4.122000	---	19.38	46.00	26.62	L1	10.2
4.122000	37.12	---	56.00	18.88	L1	10.2
4.698000	36.92	---	56.00	19.08	L1	10.2
4.778000	---	18.60	46.00	27.40	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.153500	---	26.86	55.81	28.95	200.0	9.000	L1	9.9
0.154000	46.29	---	65.78	19.49	200.0	9.000	L1	9.9

EUT Information

EUT Name: Lenovo USB-A Unified Pairing Receiver
Order Number: 168321870
Model: RG95
Test Mode: On (2.4GHz)
Test Voltage: 120Vac, 60Hz
Test By: Jianhua Lu
Review By: Gary Chen
Remark: SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	50.55	---	65.78	15.23	N	9.8
0.158000	---	31.77	55.78	24.01	N	9.8
0.182000	---	28.37	54.39	26.02	N	9.8
0.182000	47.74	---	64.39	16.65	N	9.8
0.502000	30.86	---	56.00	25.14	N	9.8
0.510000	---	19.34	46.00	26.66	N	9.8
0.790000	---	27.35	46.00	18.65	N	9.8
0.790000	31.69	---	56.00	24.31	N	9.8
4.670000	---	20.22	46.00	25.78	N	9.9
4.670000	35.42	---	56.00	20.58	N	9.9
9.770000	39.14	---	60.00	20.86	N	10.0
9.894000	---	22.21	50.00	27.79	N	10.0

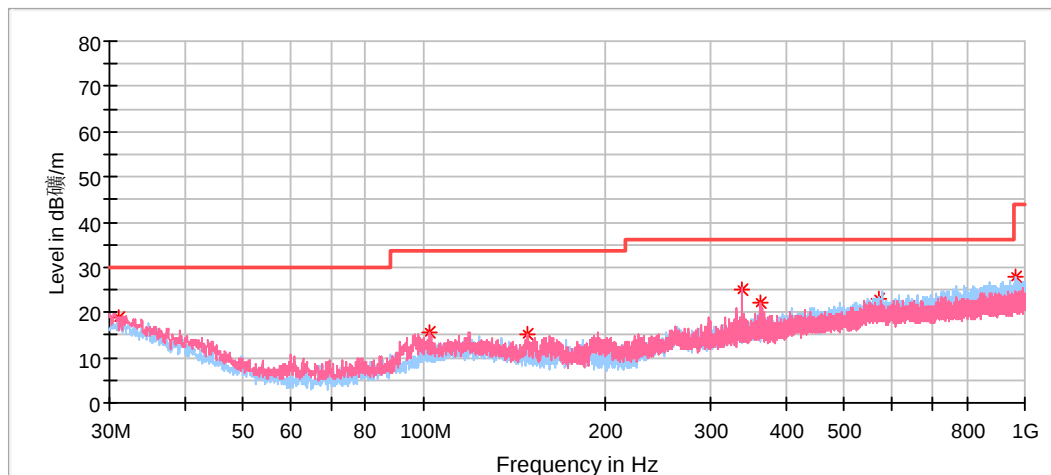
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	45.47	---	65.78	20.31	200.0	9.000	N	9.8
0.158000	---	29.07	55.57	26.50	200.0	9.000	N	9.8

Appendix B.2: Test Plots of Radiated Emission, Below 1GHz

EUT Information

EUT Name:	Lenovo USB-A Unified Pairing Receiver
Order Number:	168321870
Model:	RG95
Test Mode:	On (2.4GHz)
Test Voltage:	120Vac, 60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Remark:	10m Chamber



Critical Freqs

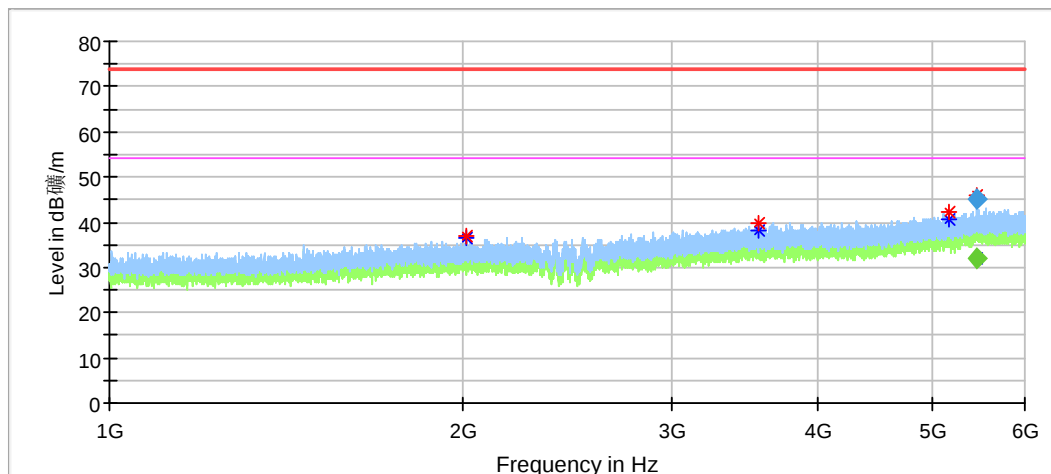
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.185556	18.93	30.00	11.07	200.0	V	134.0	-5.5
102.049444	15.57	33.50	17.93	200.0	V	19.0	-12.6
149.040556	15.36	33.50	18.14	200.0	V	237.0	-13.1
337.543889	25.08	36.00	10.92	200.0	V	264.0	-9.4
364.272778	22.22	36.00	13.78	100.0	V	0.0	-8.5
572.014444	23.18	36.00	12.82	200.0	H	336.0	-8.2
964.648889	27.90	44.00	16.10	100.0	H	188.0	-4.1

Appendix B.3: Test Plots of Radiated Emission, Above 1GHz

Note: Testing was carried out within frequency range 30MHz to the 5th harmonics. The measurement results above 6GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 6GHz.

EUT Information

EUT Name:	Lenovo USB-A Unified Pairing Receiver
Order Number:	168321870
Model:	RG95
Test Mode:	On (2.4GHz)
Test Voltage:	120Vac, 60Hz
Test By:	Jianhua Lu
Review By:	Gary Chen
Remark:	10m Chamber



Critical_Freqs

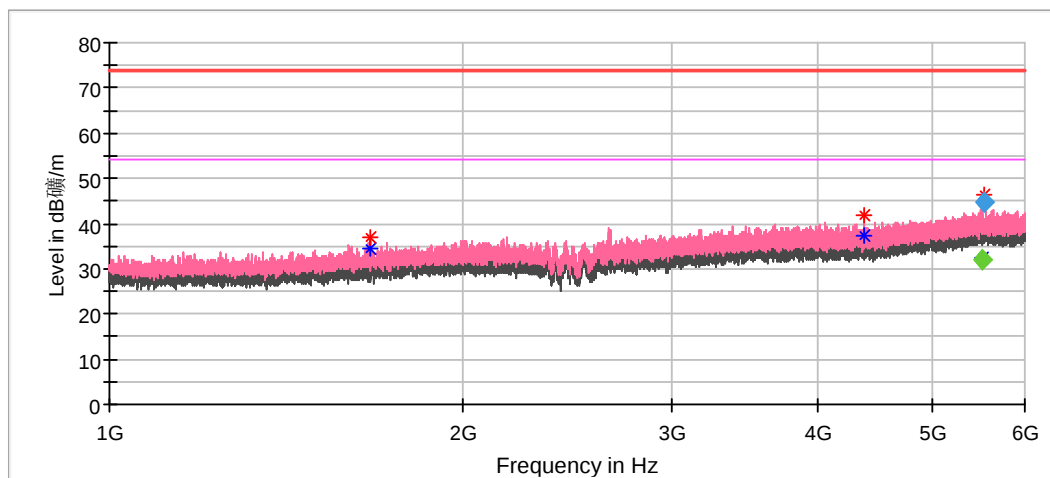
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
2012.291667	---	36.35	54.00	17.65	100.0	H	0.0
2012.291667	36.86	---	74.00	37.14	100.0	H	0.0
3568.541667	---	38.19	54.00	15.81	100.0	H	132.0
3568.541667	39.91	---	74.00	34.09	100.0	H	132.0
5179.166667	---	40.54	54.00	13.46	100.0	H	9.0
5179.166667	42.08	---	74.00	31.92	100.0	H	9.0
5454.500000	46.11	---	74.00	30.85	100.0	H	183.0
5468.500000	---	32.06	54.00	12.36	100.0	H	0.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5454.500000	45.10	---	74.00	28.90	1000.0	1000.000	100.0	H	183.0
5468.500000	---	32.03	54.00	21.97	1000.0	1000.000	100.0	H	0.0

EUT Information

EUT Name: Lenovo USB-A Unified Pairing Receiver
Order Number: 168321870
Model: RG95
Test Mode: On (2.4GHz)
Test Voltage: 120Vac, 60Hz
Test By: Jianhua Lu
Review By: Gary Chen
Remark: 10m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1663.125000	36.98	---	74.00	37.02	100.0	V	0.0
1663.333333	---	34.53	54.00	19.47	100.0	V	0.0
4381.250000	---	37.32	54.00	16.68	100.0	V	332.0
4381.250000	41.90	---	74.00	32.10	100.0	V	332.0
5528.375000	---	32.22	54.00	11.93	100.0	V	340.0
5533.575000	46.55	---	74.00	31.06	100.0	V	258.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
5528.375000	---	32.19	54.00	21.81	1000.0	1000.000	100.0	V	340.0
5533.575000	44.81	---	74.00	29.19	1000.0	1000.000	100.0	V	258.0