

Appendix A: Test Results

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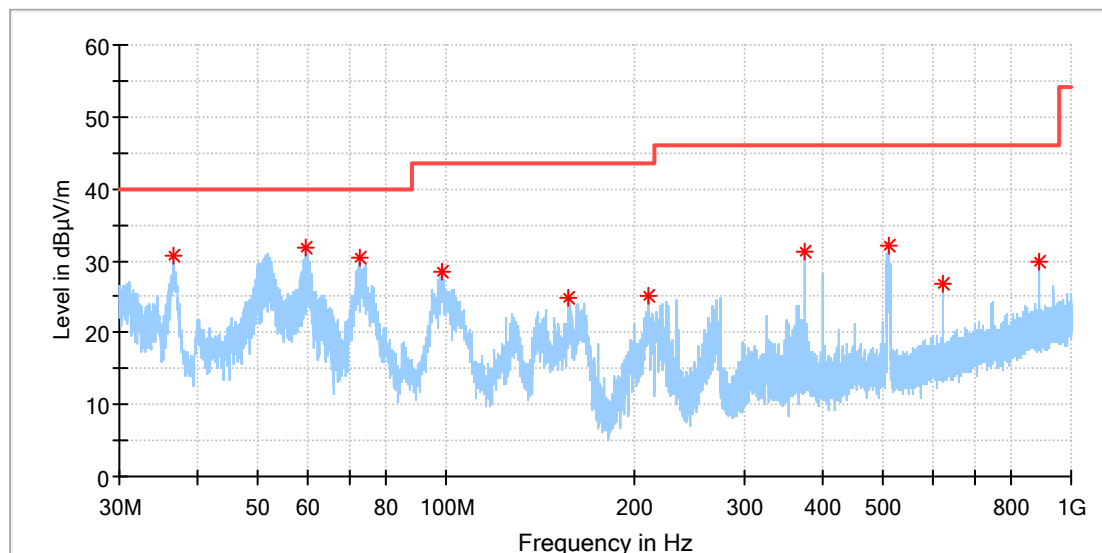
Appendix A.1: Test Results of Field Strength of Fundamental & Harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Wireless Power Transmitter Controller
Model:	HzWP LC180-A30
Test Mode:	Mid channel
Order No./Sample No:	168546836/A004020767-001
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

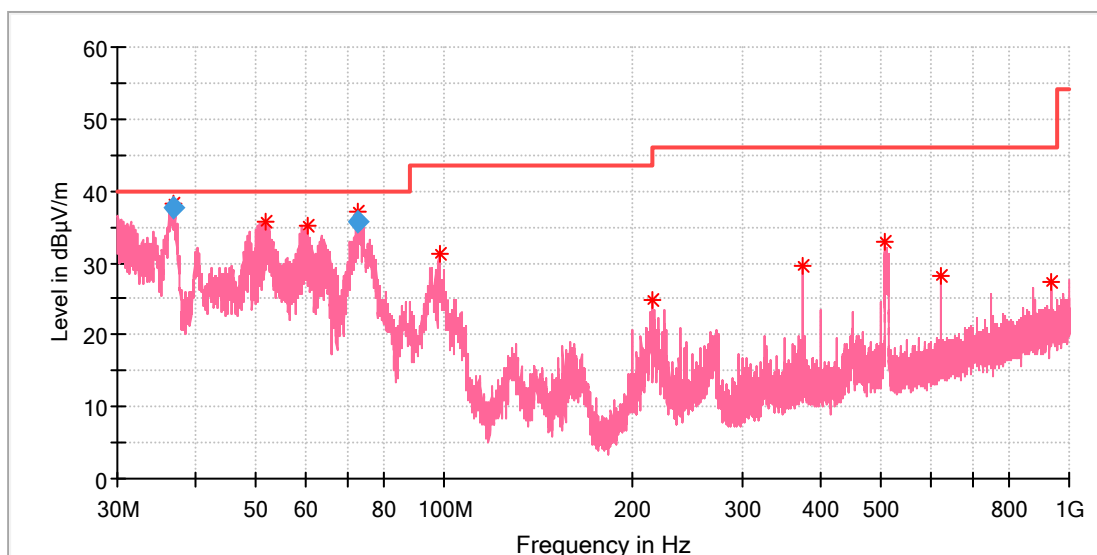
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.528846	30.57	40.00	9.43	100.0	H	16.0	-21.4
59.622308	31.70	40.00	8.30	100.0	H	288.0	-19.1
72.791923	30.45	40.00	9.55	100.0	H	120.0	-22.8
98.161154	28.59	43.50	14.91	100.0	H	232.0	-19.4
156.398462	24.86	43.50	18.64	100.0	H	240.0	-22.0
210.905000	25.20	43.50	18.30	100.0	H	35.0	-18.9
375.021539	31.20	46.00	14.80	100.0	H	232.0	-14.3
508.956154	32.12	46.00	13.88	100.0	H	168.0	-11.7
625.020385	26.85	46.00	19.15	100.0	H	35.0	-9.2
890.986923	29.84	46.00	16.16	100.0	H	192.0	-4.9

Final_Result

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

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.825346	38.30	40.00	1.70	100.0	V	104.0	-21.4
51.787692	35.75	40.00	4.25	100.0	V	240.0	-18.4
60.480385	35.25	40.00	4.75	100.0	V	177.0	-19.2
72.534769	37.03	40.00	2.97	100.0	V	31.0	-22.7
98.123846	31.37	43.50	12.13	100.0	V	131.0	-19.4
214.673077	24.78	43.50	18.72	100.0	V	131.0	-18.8
375.021539	29.59	46.00	16.41	100.0	V	155.0	-14.3
508.583077	33.02	46.00	12.98	100.0	V	148.0	-11.8
625.020385	28.28	46.00	17.72	100.0	V	312.0	-9.2
938.442308	27.48	46.00	18.52	100.0	V	31.0	-4.4

Final_Result

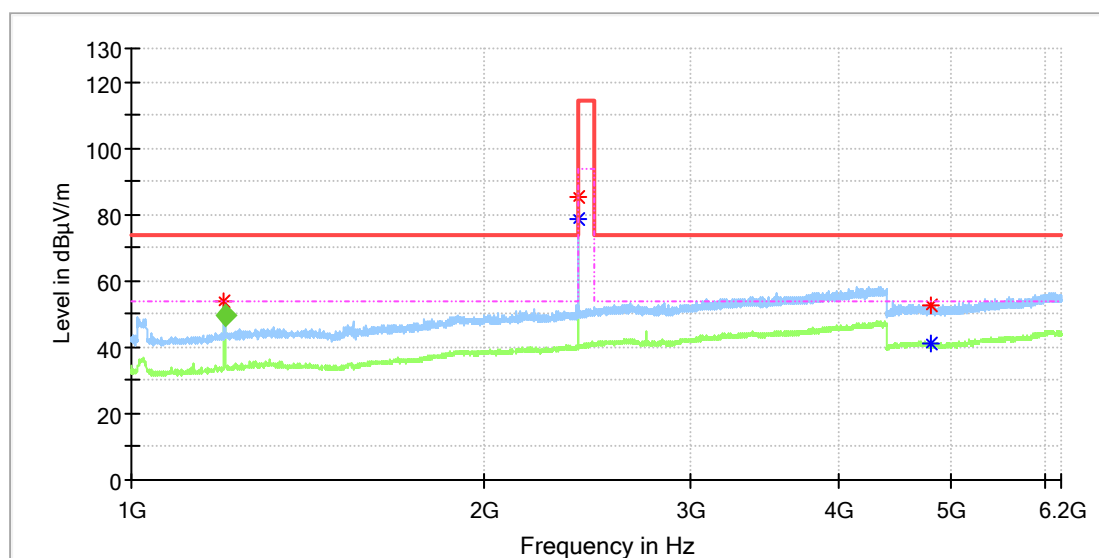
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.825346	37.76	40.00	2.24	100.0	V	104.0	-21.3
72.534769	35.69	40.00	4.31	100.0	V	31.0	-22.7

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4G SRD Fundamental.

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Critical Freqs

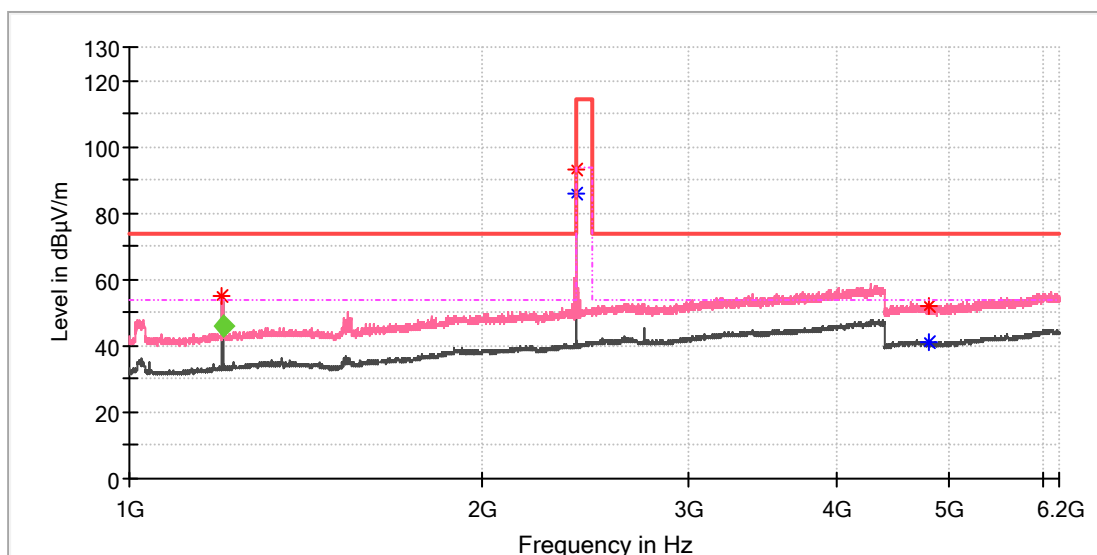
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.500000	54.07	---	74.00	19.93	150.0	H	311.0	1.8
2401.000000	---	78.81	94.00	15.19	150.0	H	182.0	8.5
2401.500000	85.50	---	114.00	28.50	150.0	H	182.0	8.5
4802.000000	---	41.09	54.00	12.91	150.0	H	297.0	13.3
4809.500000	52.42	---	74.00	21.58	150.0	H	353.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1202.113235	---	49.57	54.00	4.43	150.0	H	311.0	1.8

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Critical_Freqs

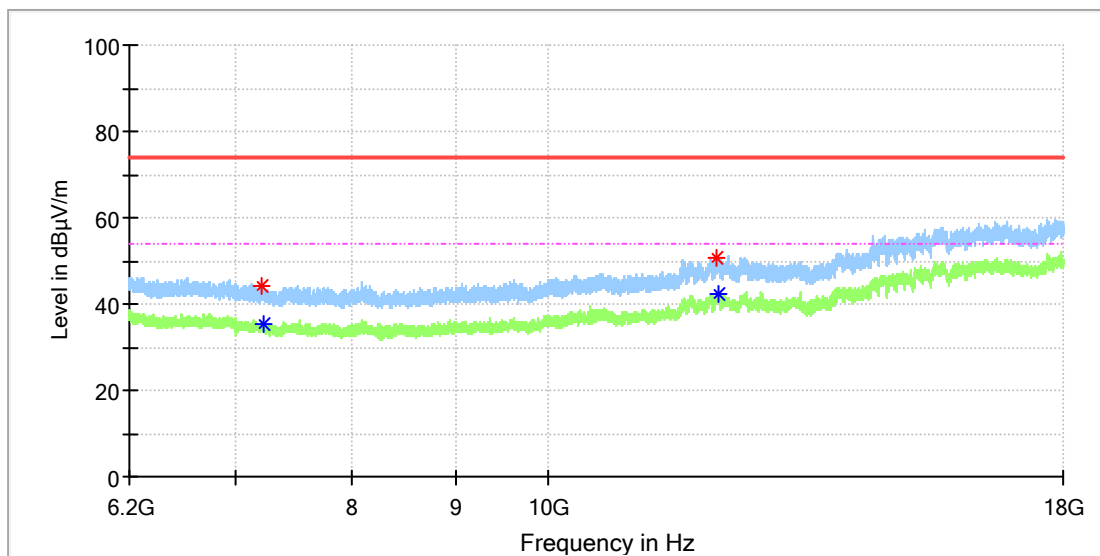
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.500000	55.11	---	74.00	18.89	150.0	V	357.0	1.8
2401.000000	---	85.75	94.00	8.25	150.0	V	271.0	8.5
2401.500000	92.90	---	114.00	21.10	150.0	V	271.0	8.5
4802.500000	52.30	---	74.00	21.70	150.0	V	186.0	13.3
4810.500000	---	41.02	54.00	12.98	150.0	V	173.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1201.047059	---	46.10	54.00	7.90	150.0	V	357.0	1.8

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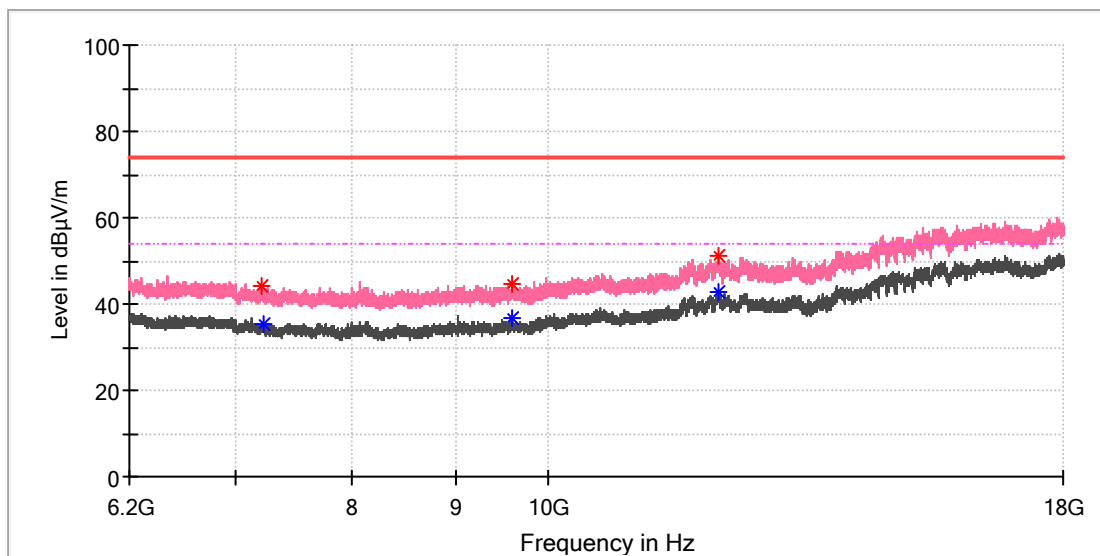
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7214.308333	44.06	---	74.00	29.94	150.0	H	0.0	8.7
7234.466667	---	35.50	54.00	18.50	150.0	H	214.0	8.6
12125.075000	50.57	---	74.00	23.43	150.0	H	37.0	16.1
12149.166667	---	42.52	54.00	11.48	150.0	H	359.0	16.7

Final_Result

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

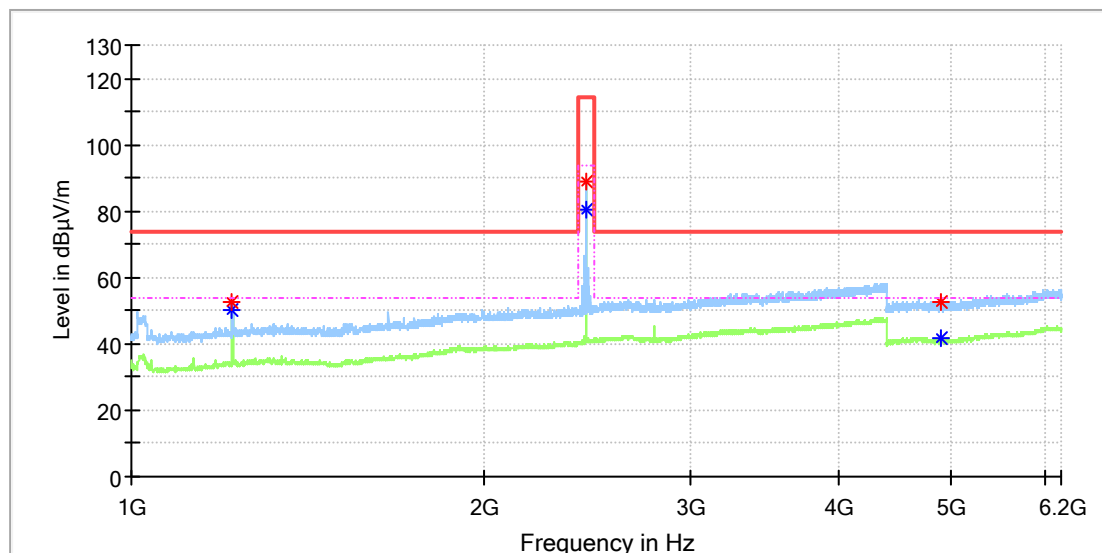
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7208.900000	44.39	---	74.00	29.61	150.0	V	106.0	8.8
7234.958333	---	35.19	54.00	18.81	150.0	V	181.0	8.6
9596.925000	44.83	---	74.00	29.17	150.0	V	1.0	10.3
9600.858333	---	36.71	54.00	17.29	150.0	V	30.0	10.4
12134.416667	50.93	---	74.00	23.07	150.0	V	346.0	16.3
12159.000000	---	42.98	54.00	11.02	150.0	V	45.0	16.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
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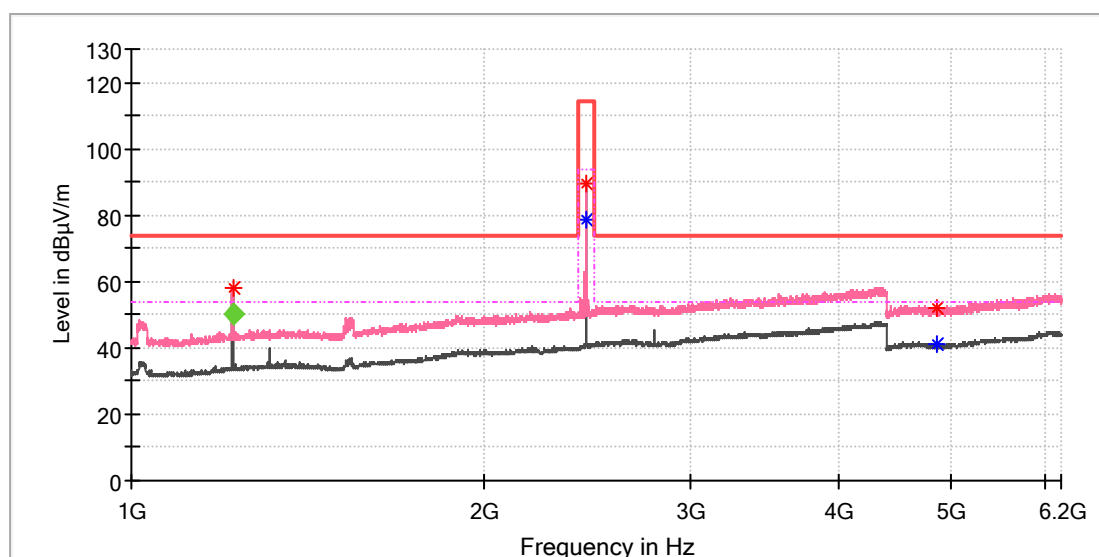
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1219.500000	52.44	---	74.00	21.56	150.0	H	42.0	2.1
1219.500000	---	50.39	54.00	3.61	150.0	H	42.0	2.1
2439.000000	---	80.63	94.00	13.37	150.0	H	54.0	8.9
2440.000000	88.99	---	114.00	25.01	150.0	H	54.0	8.9
4901.500000	52.33	---	74.00	21.67	150.0	H	318.0	13.3
4903.500000	---	41.55	54.00	12.45	150.0	H	6.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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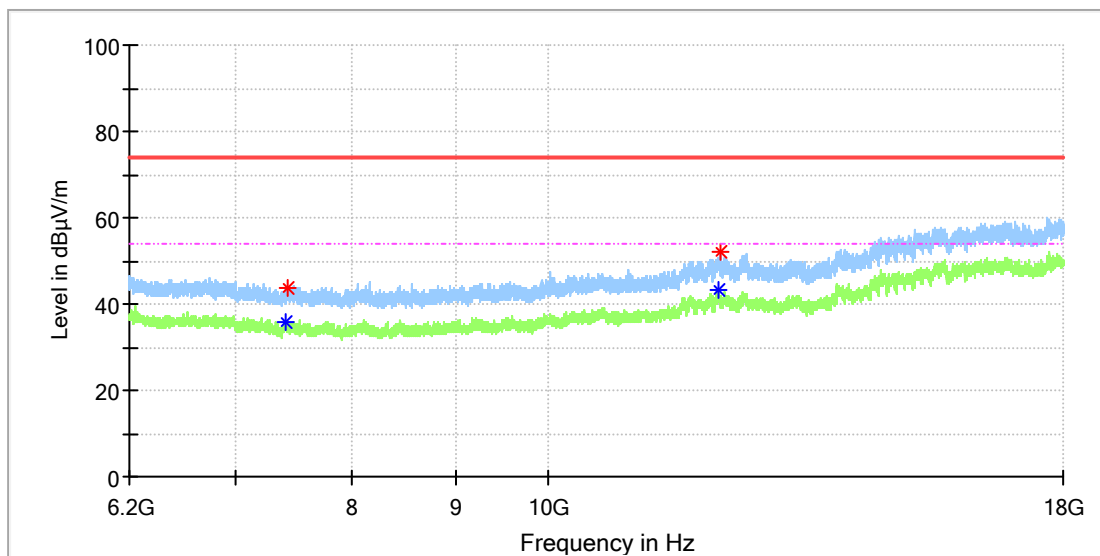
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1220.000000	58.10	---	74.00	15.90	150.0	V	186.0	2.1
2440.000000	89.75	---	114.00	24.25	150.0	V	95.0	8.9
2441.000000	---	78.54	94.00	15.46	150.0	V	95.0	8.9
4857.500000	52.06	---	74.00	21.94	150.0	V	77.0	13.3
4862.000000	---	41.06	54.00	12.94	150.0	V	273.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1221.126471	---	50.26	54.00	3.74	150.0	V	186.0	2.1

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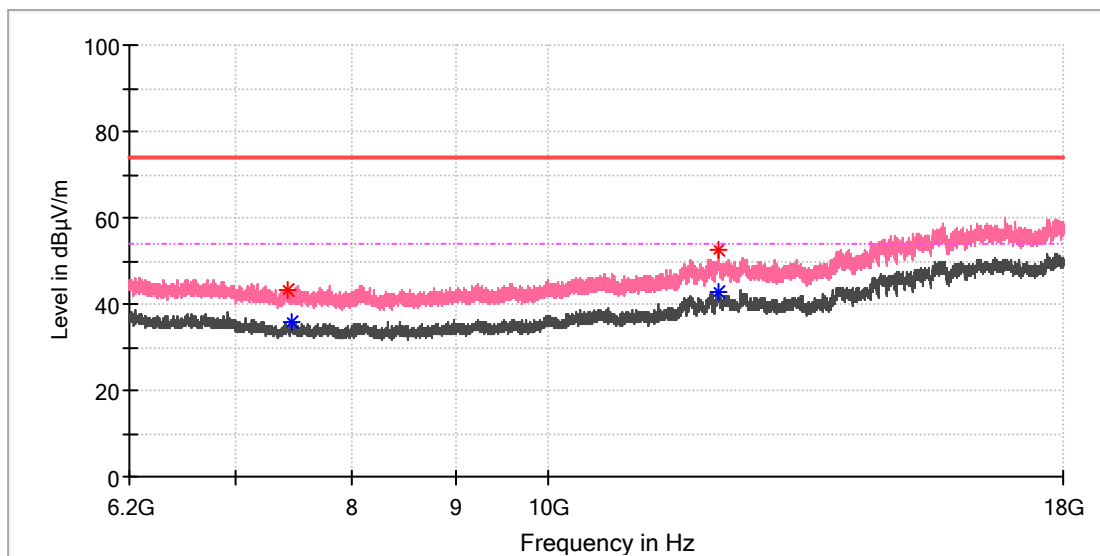
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7416.383333	---	35.96	54.00	18.04	150.0	H	333.0	8.3
7433.100000	43.79	---	74.00	30.21	150.0	H	310.0	8.4
12147.200000	---	43.13	54.00	10.87	150.0	H	189.0	16.7
12165.391667	51.97	---	74.00	22.03	150.0	H	301.0	15.9

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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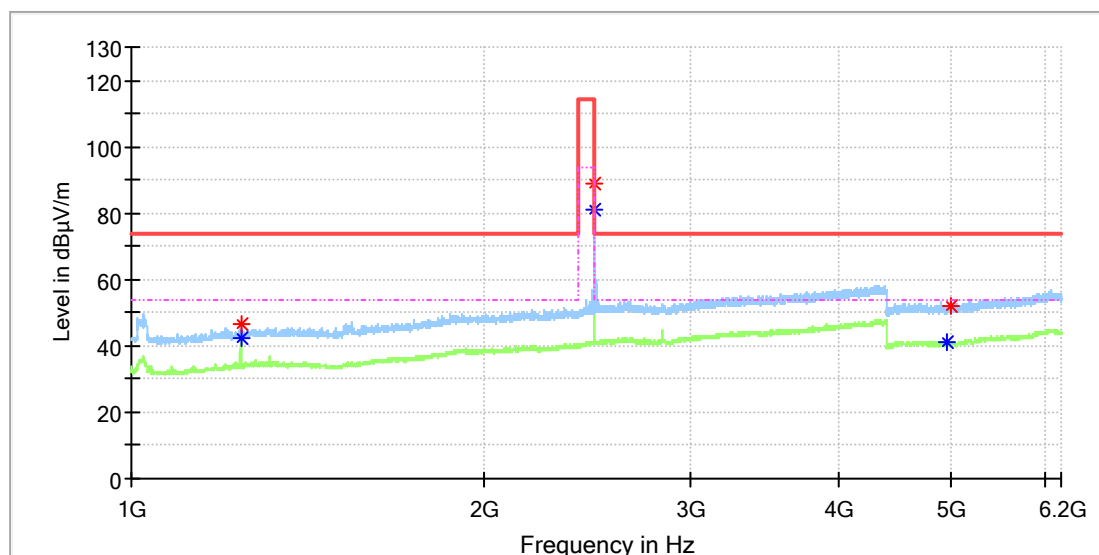
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7431.625000	43.39	---	74.00	30.61	150.0	V	0.0	8.4
7462.108333	---	36.04	54.00	17.96	150.0	V	1.0	8.6
12137.858333	---	42.71	54.00	11.29	150.0	V	107.0	16.4
12145.233333	52.33	---	74.00	21.67	150.0	V	329.0	16.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Remark:	Temp 24 Humi:50%
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Critical Freqs

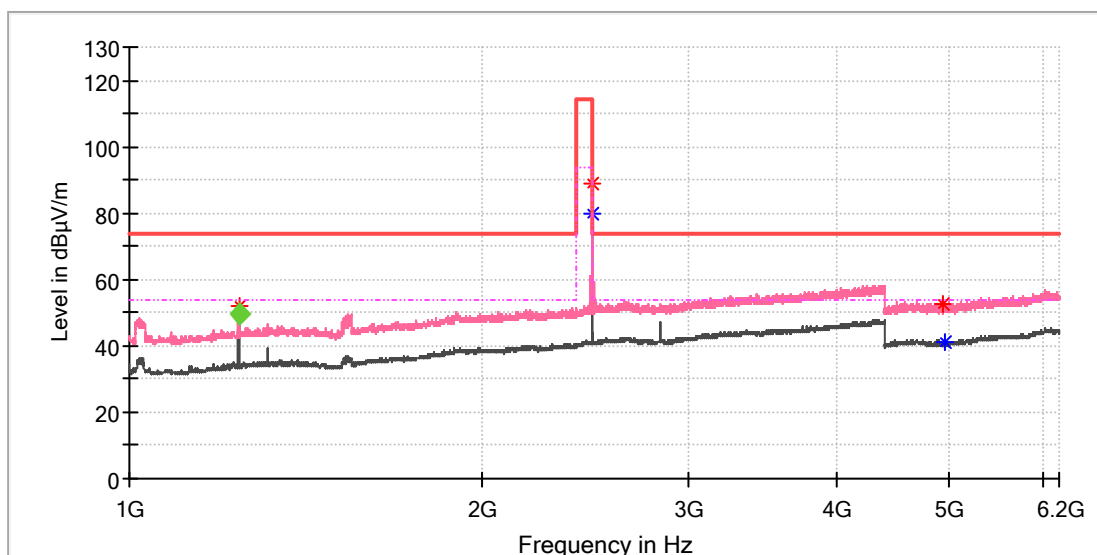
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1240.000000	46.76	---	74.00	27.24	150.0	H	160.0	2.5
1240.000000	---	42.55	54.00	11.45	150.0	H	160.0	2.5
2479.500000	---	80.80	94.00	13.20	150.0	H	150.0	9.0
2479.500000	88.87	---	114.00	25.13	150.0	H	150.0	9.0
4956.000000	---	41.02	54.00	12.98	150.0	H	74.0	13.3
4987.500000	52.17	---	74.00	21.83	150.0	H	32.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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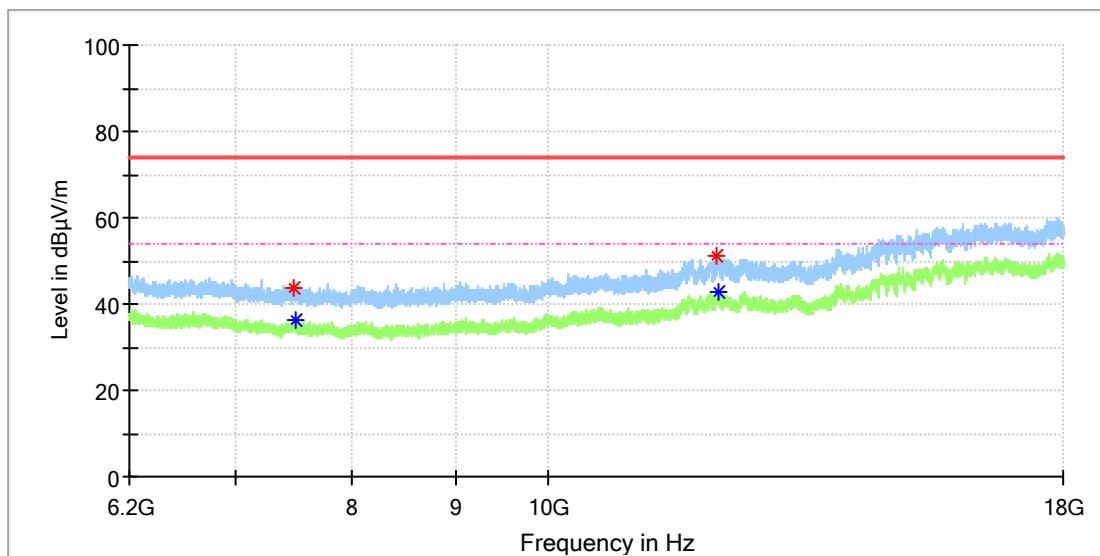
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1240.000000	52.08	---	74.00	21.92	150.0	V	337.0	2.5
2479.000000	---	79.52	94.00	14.48	150.0	V	116.0	9.0
2480.000000	88.90	---	114.00	25.10	150.0	V	116.0	9.0
4942.500000	52.52	---	74.00	21.48	150.0	V	254.0	13.3
4955.500000	---	41.22	54.00	12.78	150.0	V	227.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1240.364706	---	49.74	54.00	4.26	150.0	V	337.0	2.5

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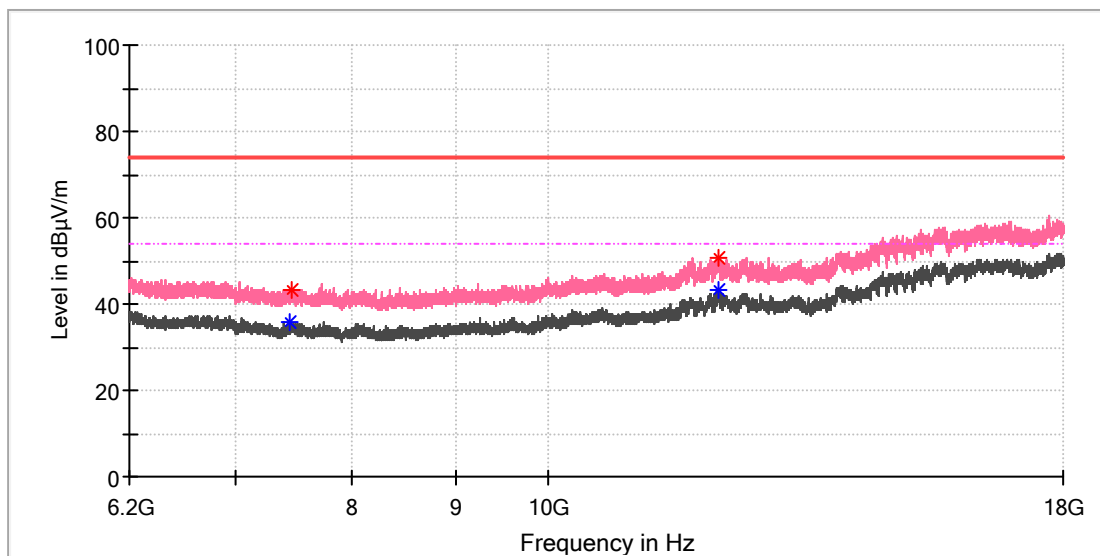
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7484.233333	43.88	---	74.00	30.12	150.0	H	257.0	8.7
7493.575000	---	36.29	54.00	17.71	150.0	H	38.0	8.7
12119.175000	51.26	---	74.00	22.74	150.0	H	323.0	15.9
12140.316667	---	42.56	54.00	11.44	150.0	H	14.0	16.5

Final_Result

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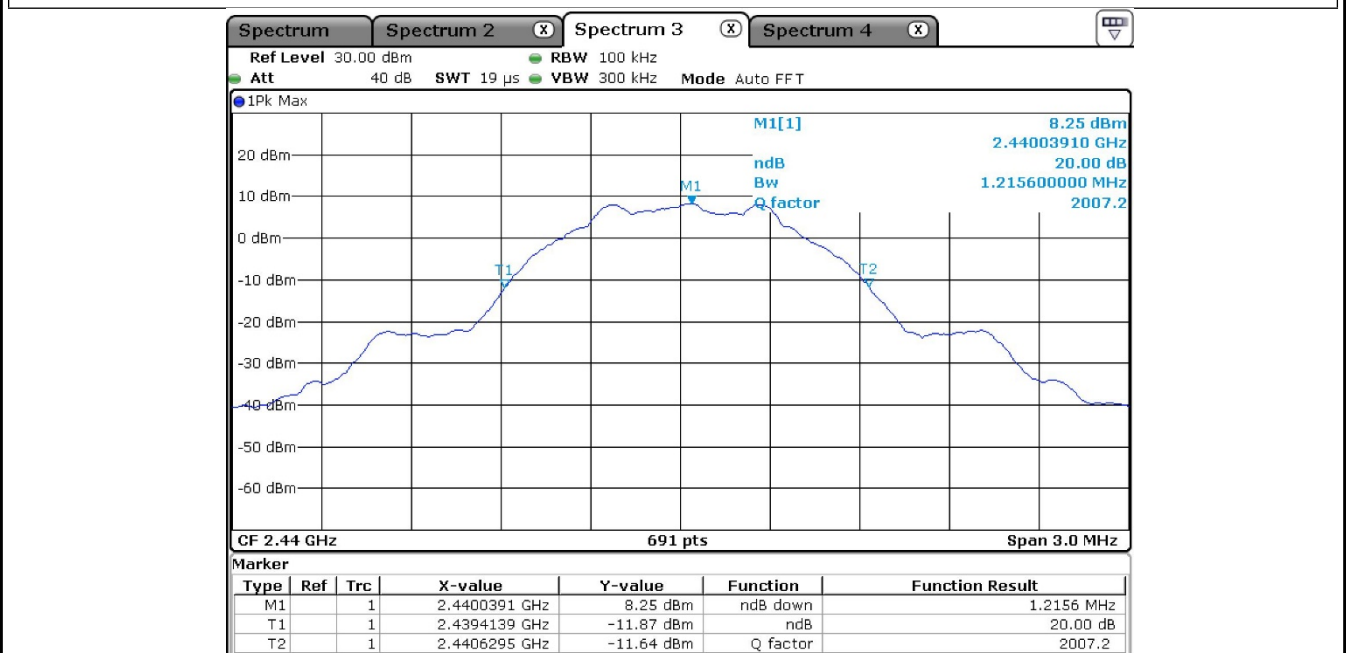
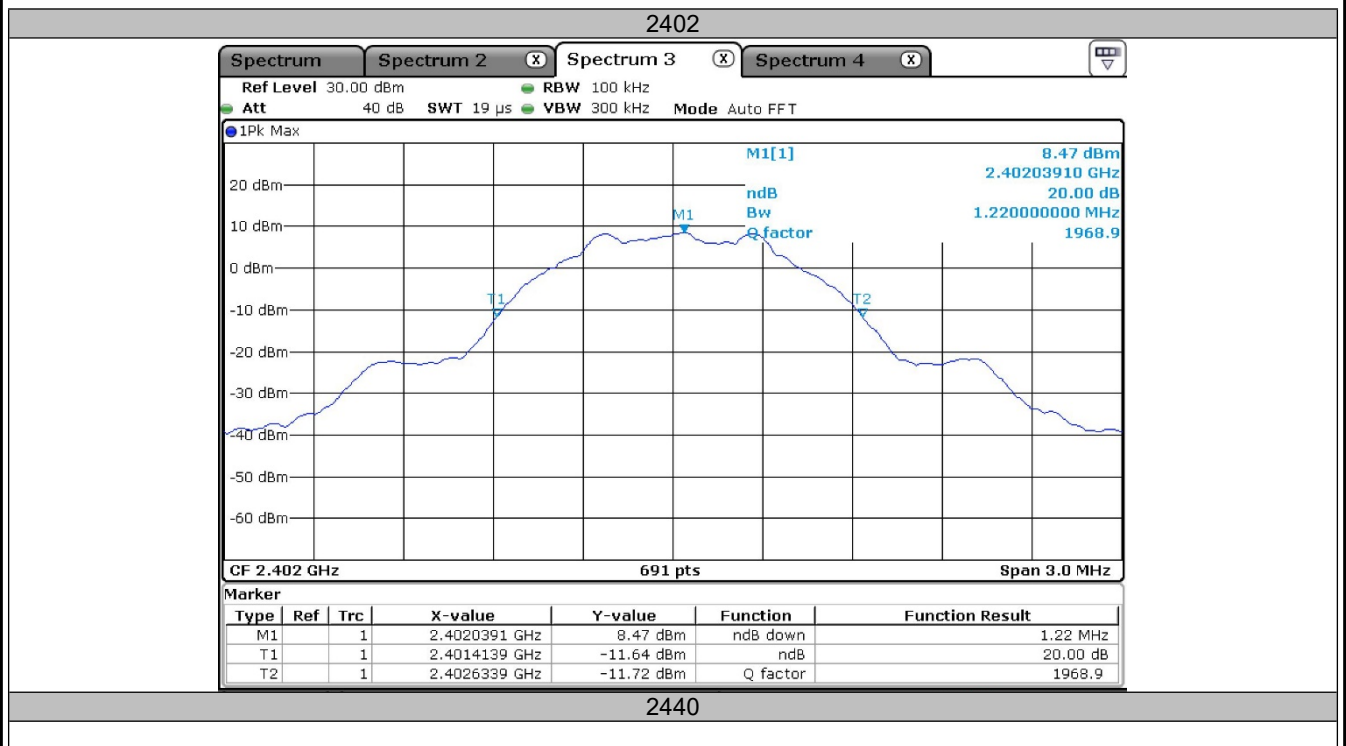
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.933333	---	35.80	54.00	18.20	150.0	V	193.0	8.5
7457.191667	43.28	---	74.00	30.72	150.0	V	52.0	8.5
12137.366667	---	43.14	54.00	10.86	150.0	V	308.0	16.4
12150.641667	50.56	---	74.00	23.44	150.0	V	340.0	16.7

Final Result

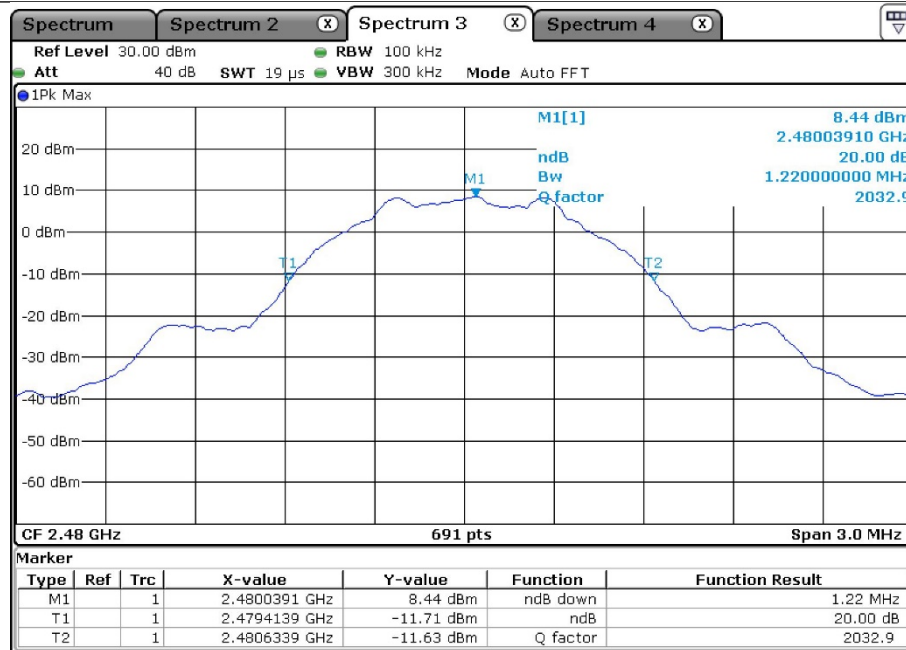
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.2: Test Results of 20dB Bandwidth

Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
Ant1	2402	1.22	---	PASS
	2440	1.2156	---	PASS
	2480	1.22	---	PASS



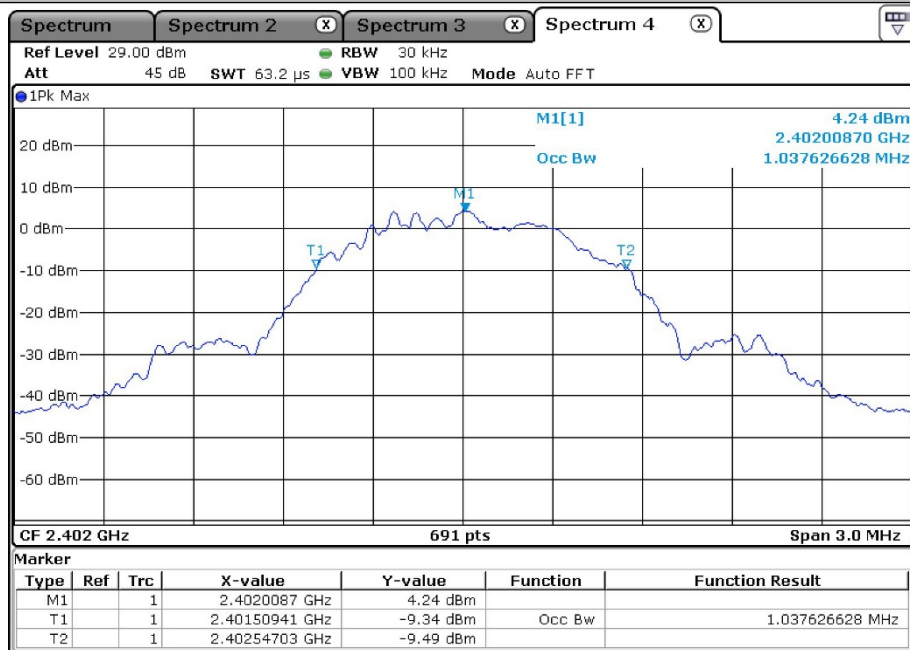
2480



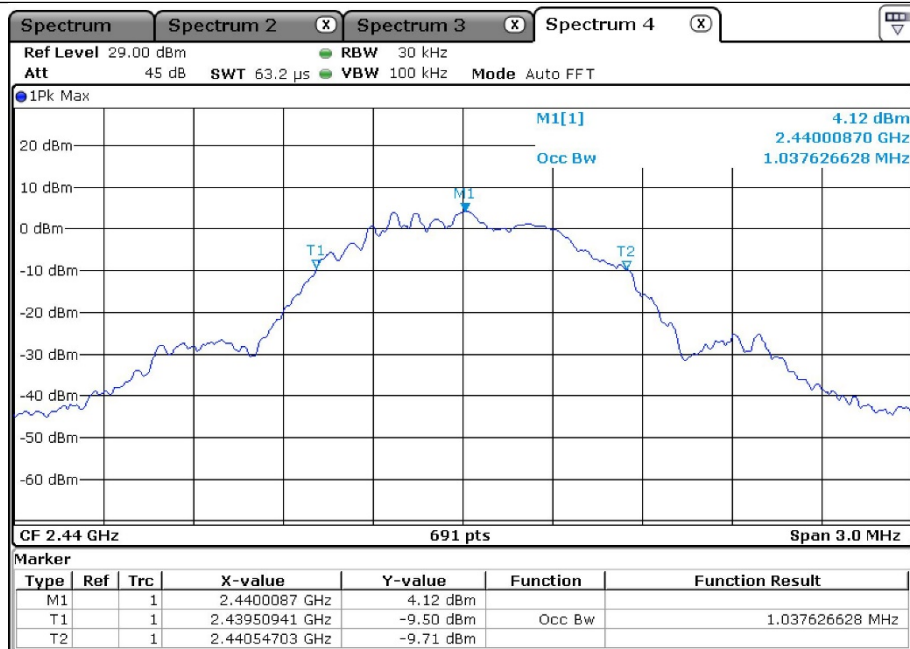
Appendix A.3: Test Results of 99% Bandwidth

Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
Ant1	2402	1.0376	---	PASS
	2440	1.0376	---	PASS
	2480	1.0376	---	PASS

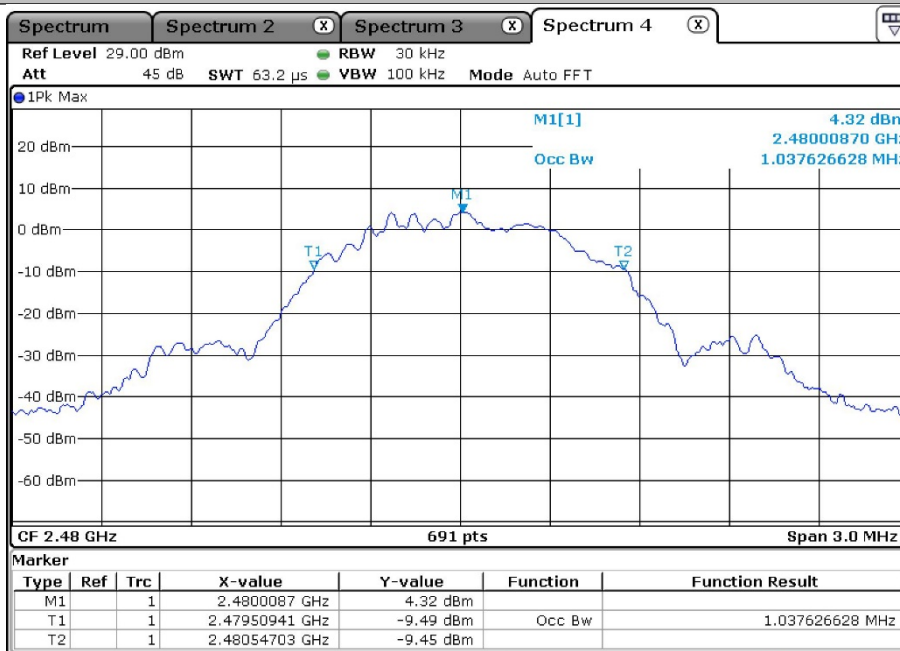
2402



2440



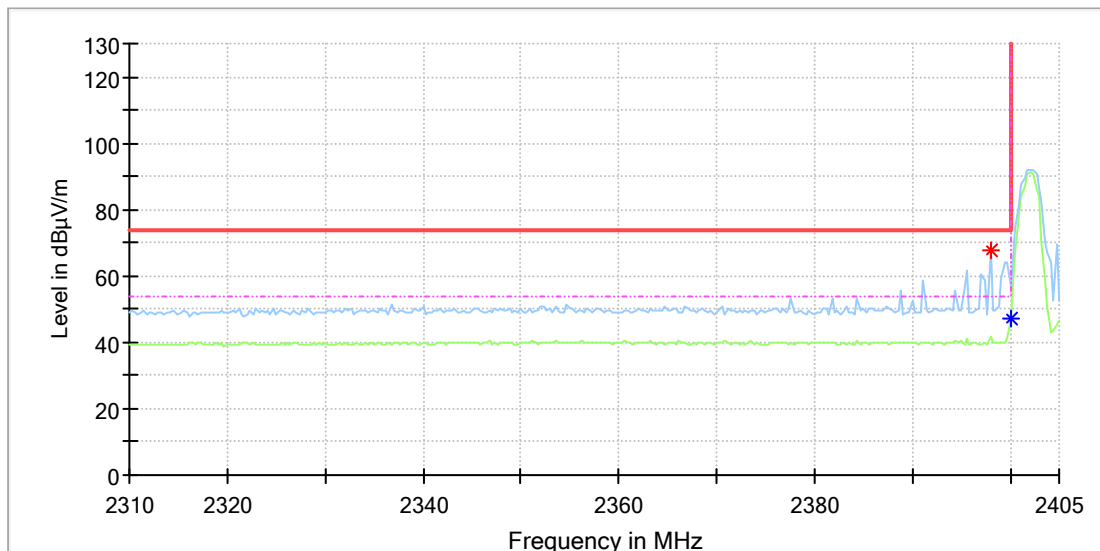
2480



Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Power Transmitter Controller
Model:	HzWP LC180-A30
Test Mode:	Low channel
Order No/Sample No:	168546836/A004020767-001
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

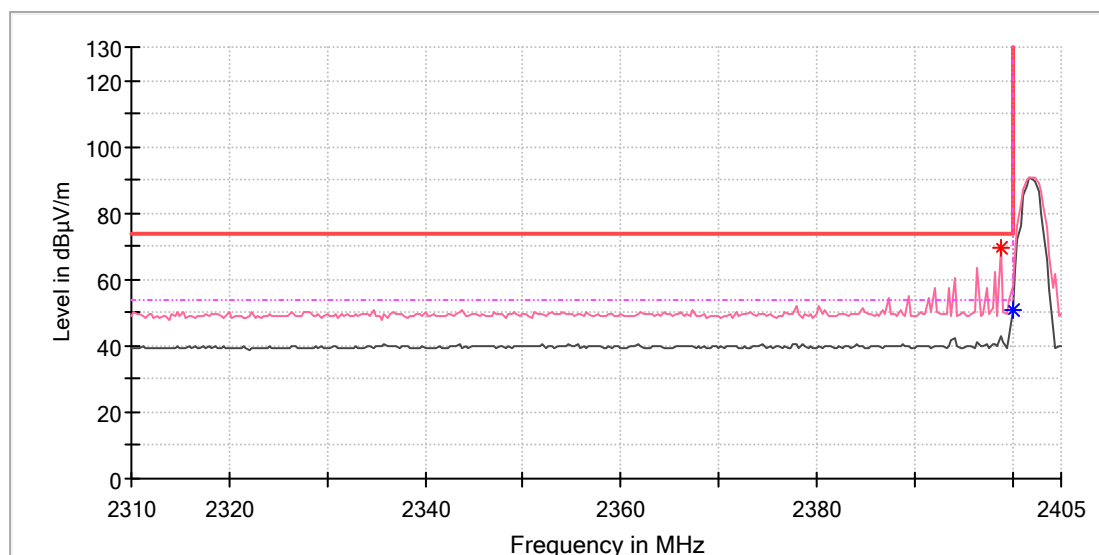
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2397.941177	67.97	---	74.00	6.03	150.0	H	147.0	8.5
2400.000000	---	47.31	54.00	6.69	150.0	H	135.0	8.5

Final Result

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

EUT Information

EUT Name:	Wireless Power Transmitter Controller
Model:	HzWP LC180-A30
Test Mode:	Low channel
Order No/Sample No:	168546836/A004020767-001
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

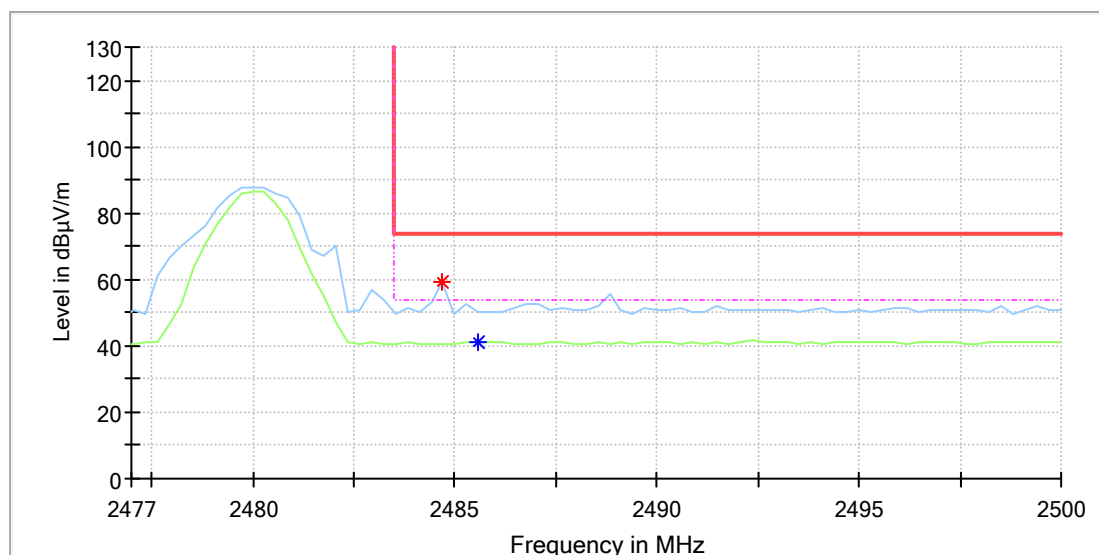
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2398.823529	69.32	---	74.00	4.68	150.0	V	238.0	8.5
2400.000000	---	50.87	54.00	3.13	150.0	V	119.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Wireless Power Transmitter Controller
Model:	HzWP LC180-A30
Test Mode:	High channel
Order No/Sample No:	168546836/A004020767-001
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

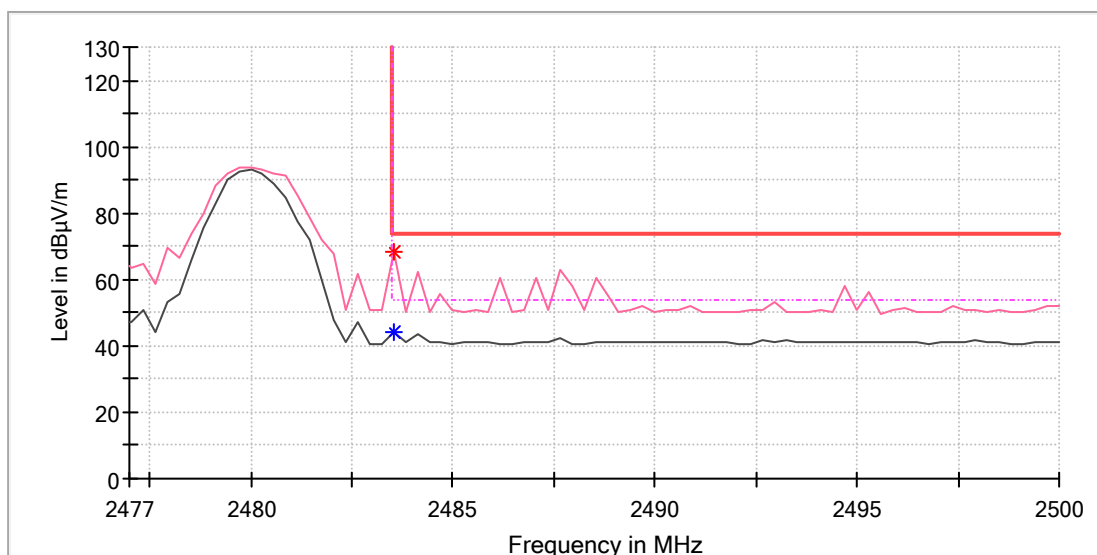
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.705882	59.14	---	74.00	14.86	150.0	H	105.0	9.0
2485.588235	---	41.32	54.00	12.69	150.0	H	211.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm		93.750 deg	93.750 dB/m

EUT Information

EUT Name:	Wireless Power Transmitter Controller
Model:	HzWP LC180-A30
Test Mode:	High channel
Order No/Sample No:	168546836/A004020767-001
Test Voltage::	120V/60Hz
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.249
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)
2483.529412	---	43.87	54.00	10.13	150.0	V	284.0	9.0
2483.529412	68.02	---	74.00	5.98	150.0	V	284.0	9.0

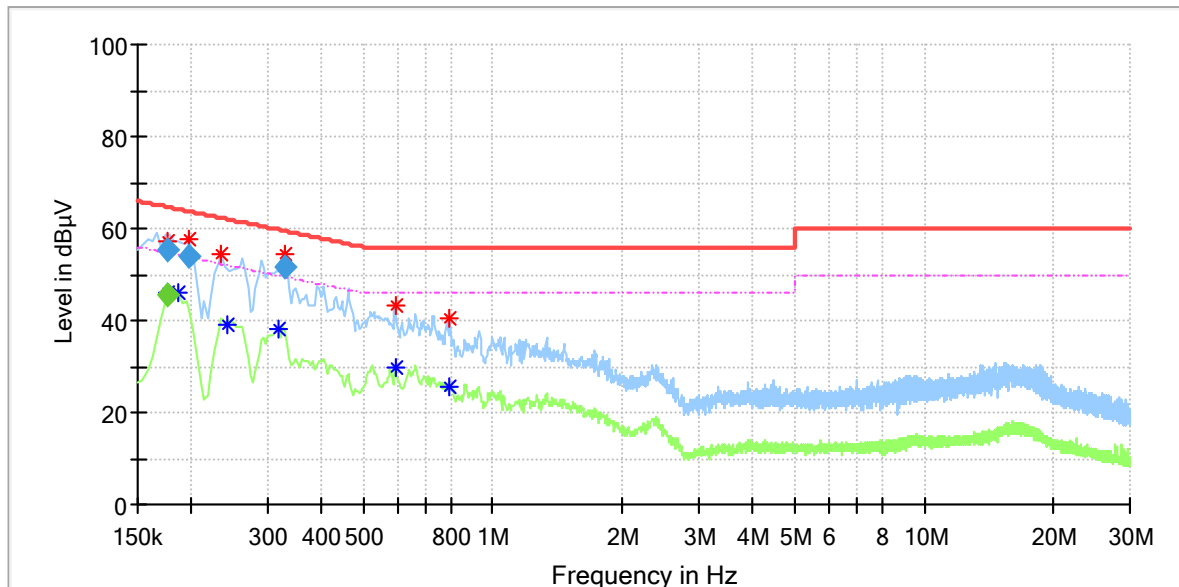
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	V	135	0

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Wireless Power Transmitter Controller
Order Number: 168546836 P01898362
Model: HzWP LC180-A30
Test Mode: 2.4G SRD Link
Test Voltage: AC120V 60Hz
Test Standard: FCC Part15 207
Test By:/Review By: Steve Lan/Murphy Chen
Tem./Hum./Pressure: 24.9°C/52.4%/101kPa
Remark: SR2



Critical_Freqs

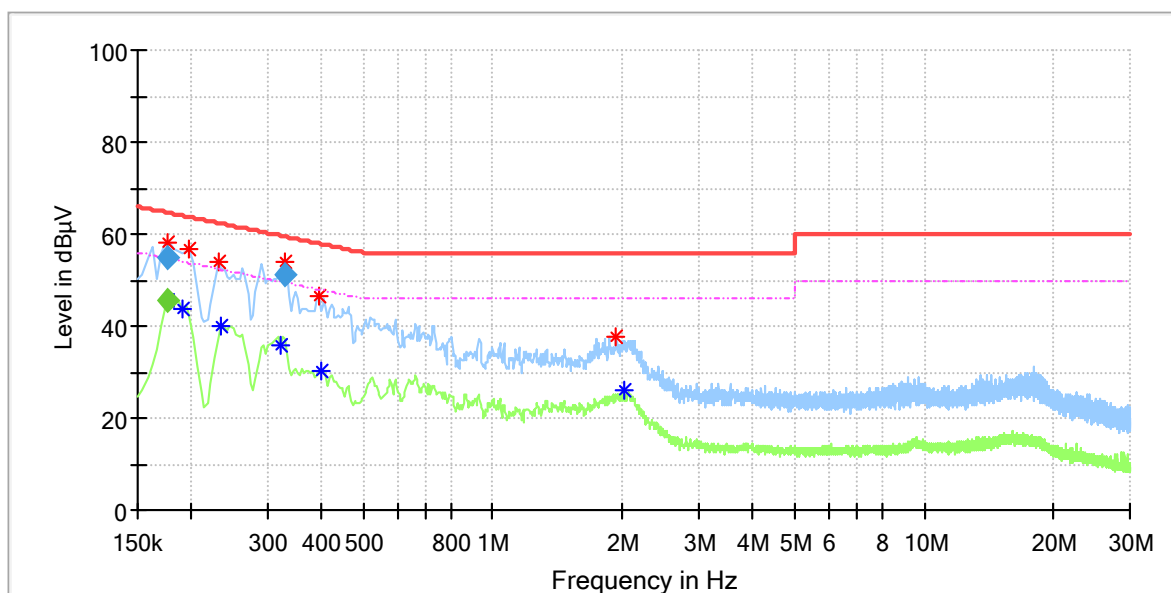
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.177	---	45.95	54.21	8.26	L1	10.2
0.177	57.07	---	64.39	7.32	L1	10.2
0.186	---	45.95	54.21	8.26	L1	10.2
0.197	57.72	---	63.69	5.97	L1	10.2
0.234	54.21	---	62.31	8.10	L1	10.2
0.242	---	39.18	52.03	12.85	L1	10.2
0.318	---	38.10	49.76	11.66	L1	10.2
0.329	54.49	---	59.45	4.96	L1	10.2
0.594	---	29.55	46.00	16.45	L1	10.2
0.594	43.21	---	56.00	12.79	L1	10.2
0.790	---	25.55	46.00	20.45	L1	10.3
0.794	40.56	---	56.00	15.44	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177	---	45.56	54.65	9.09	1000.0	9.000	L1	10.2
0.177	55.19	---	64.65	9.46	1000.0	9.000	L1	10.2
0.197	53.73	---	63.76	10.03	1000.0	9.000	L1	10.2
0.329	51.48	---	59.49	8.01	1000.0	9.000	L1	10.2

EUT Information

EUT Name: Wireless Power Transmitter Controller
 Order Number: 168546836 P01898362
 Model: HzWP LC180-A30
 Test Mode: 2.4G SRD Link
 Test Voltage: AC120V 60Hz
 Test Standard: FCC Part15 207
 Test By:/Review By: Steve Lan/Murphy Chen
 Tem./Hum./Pressure: 24.9°C/52.4%/101kPa
 Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.177	58.22	---	64.58	6.36	N	10.2
0.177	---	45.70	54.21	8.51	N	10.2
0.190	---	43.67	54.04	10.37	N	10.2
0.198	56.87	---	63.69	6.82	N	10.2
0.230	54.12	---	62.45	8.33	N	10.2
0.234	---	40.02	52.31	12.28	N	10.2
0.322	---	35.75	49.66	13.91	N	10.2
0.329	54.16	---	59.45	5.29	N	10.2
0.394	46.50	---	57.98	11.48	N	10.2
0.398	---	30.28	47.90	17.61	N	10.2
1.934	37.84	---	56.00	18.16	N	10.3
2.006	---	25.89	46.00	20.11	N	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177	---	45.53	54.65	9.12	1000.0	9.000	N	10.2
0.177	55.10	---	64.65	9.55	1000.0	9.000	N	10.2
0.329	51.12	---	59.49	8.37	1000.0	9.000	N	10.2