

Appendix A: Test Results of Classic Bluetooth

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Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.020	2401.505	2402.525	---	PASS
		2441	1.029	2440.499	2441.528	---	PASS
		2480	1.029	2479.499	2480.528	---	PASS
2DH5	Ant1	2402	1.329	2401.355	2402.684	---	PASS
		2441	1.341	2440.346	2441.687	---	PASS
		2480	1.344	2479.349	2480.693	---	PASS

Test Graphs



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5 Ant1 2441



2DH5 Ant1 2480



Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.92008	2401.5534	2402.4735	---	PASS
		2441	0.91409	2440.5564	2441.4705	---	PASS
		2480	0.95904	2479.5325	2480.4915	---	PASS
2DH5	Ant1	2402	1.2168	2401.4006	2402.6174	---	PASS
		2441	1.2138	2440.4036	2441.6174	---	PASS
		2480	1.2408	2479.3916	2480.6324	---	PASS

Test Graphs





2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.036	≥ 0.686	PASS
2DH5	Ant1	Hop	1.032	≥ 0.896	PASS

Test Graphs

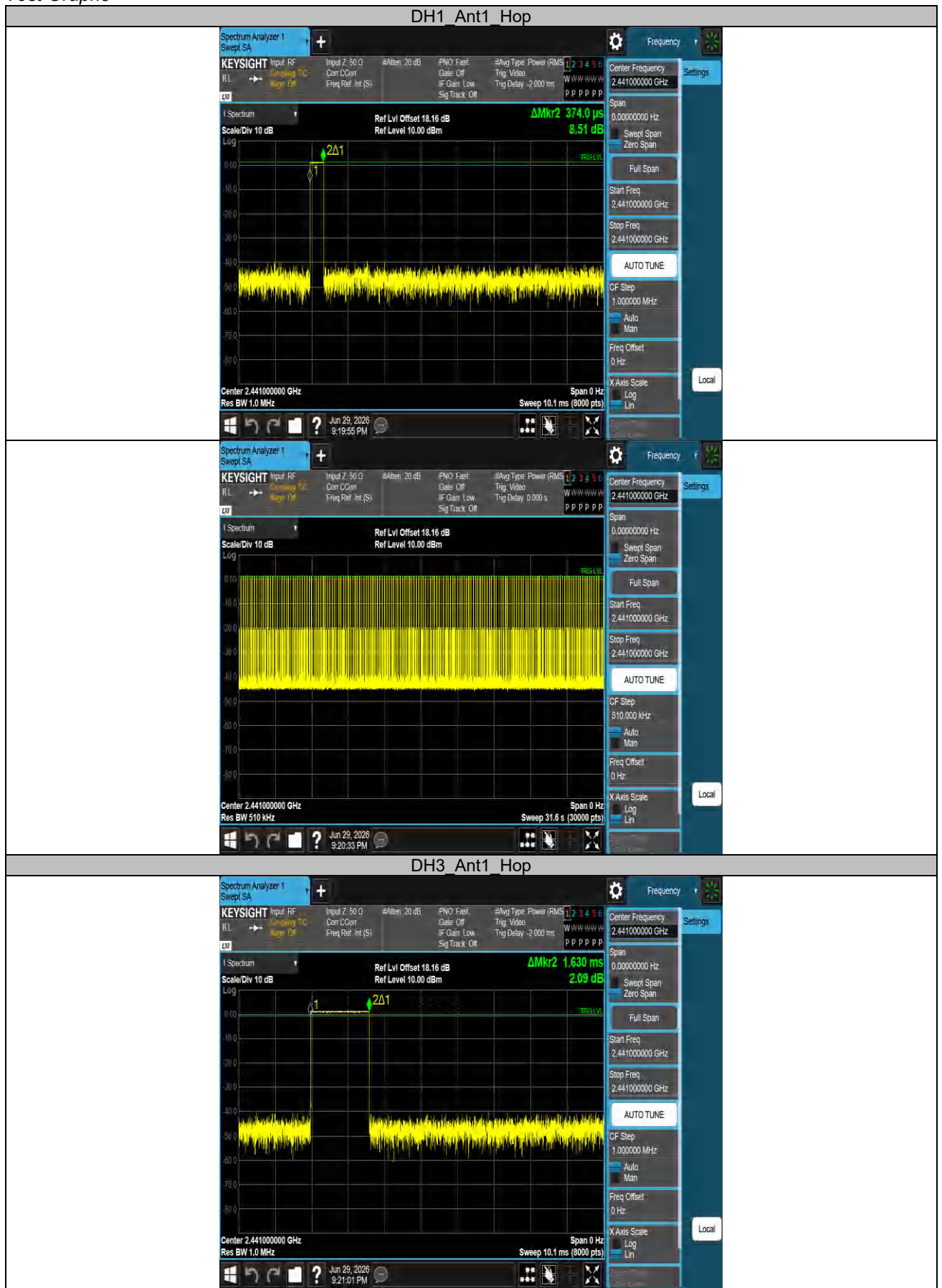


Appendix A.4: Test Results of Time of Occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	316	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.630	153	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.877	112	0.322	≤0.4	PASS
2DH1	Ant1	Hop	0.385	319	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.637	164	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.884	109	0.314	≤0.4	PASS

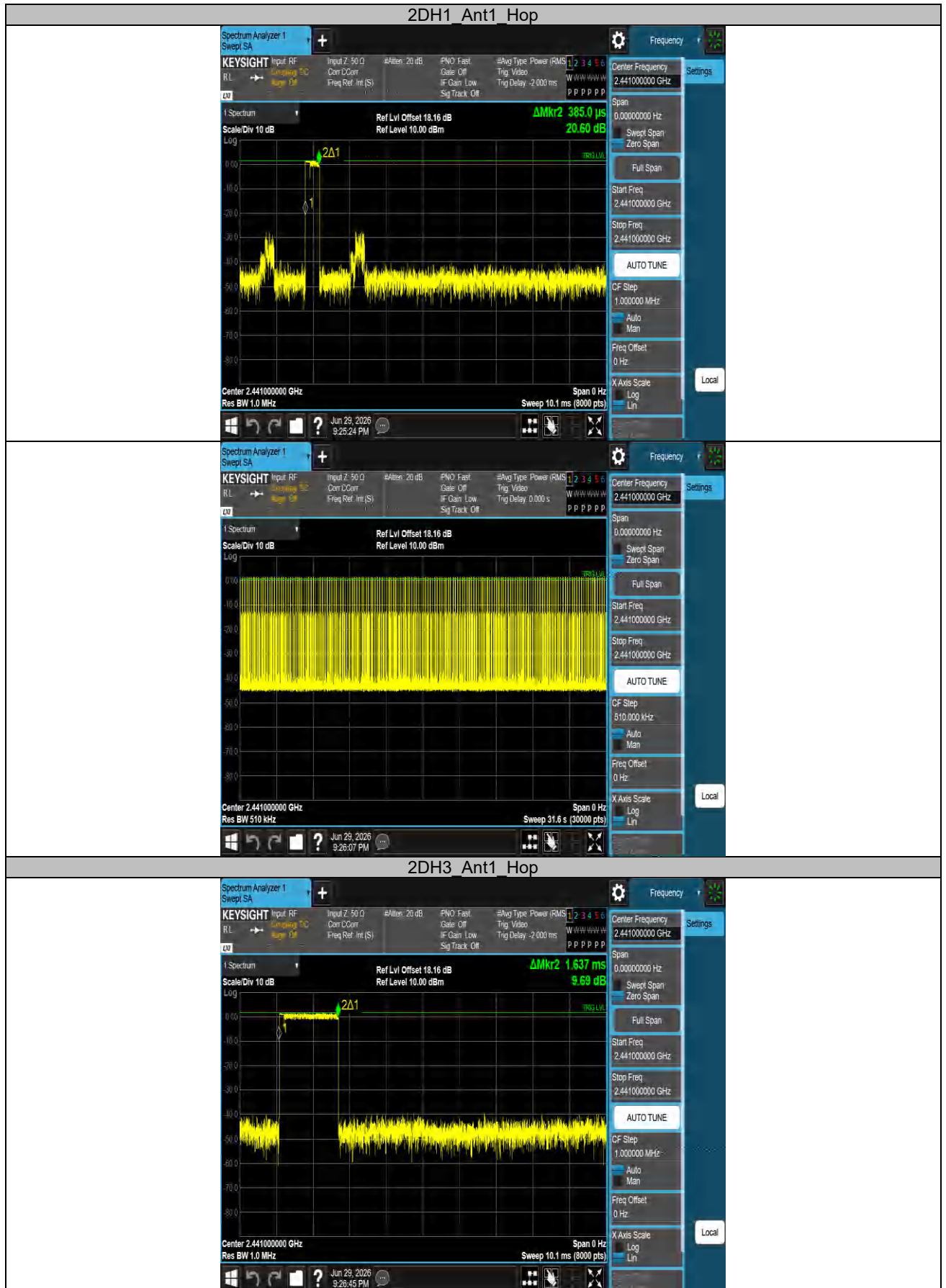
Test Graphs





DH5 Ant1 Hop







2DH5 Ant1 Hop



Appendix A.5: Test Results of Number of Hopping Frequency

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix A.6: Test Results of Band Edge Measurements

BR mode (DH5)

Fixed mode, Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.63	-41.23	≤-19.37	PASS
		High	2480	0.71	-42.47	≤-19.29	PASS
2DH5	Ant1	Low	2402	0.88	-41.84	≤-19.12	PASS
		High	2480	0.87	-39.72	≤-19.13	PASS
DH5	Ant1	Hopping	2402	0.36	-40.02	≤-19.64	PASS
		Hopping	2480	0.67	-41.35	≤-19.33	PASS
2DH5	Ant1	Hopping	2402	-3.25	-42.17	≤-23.25	PASS
		Hopping	2480	-2.43	-41.37	≤-22.43	PASS

Test Graphs







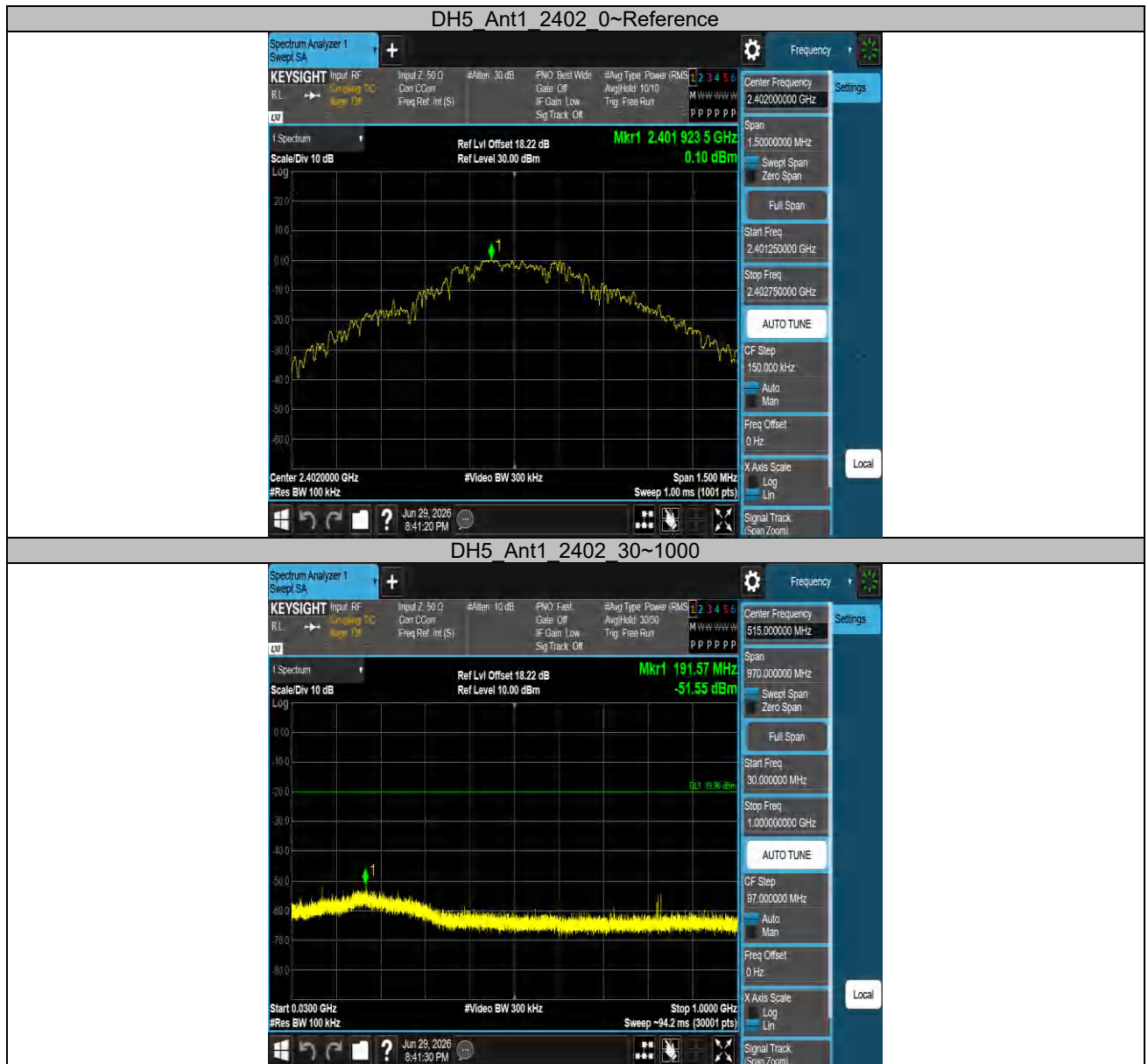


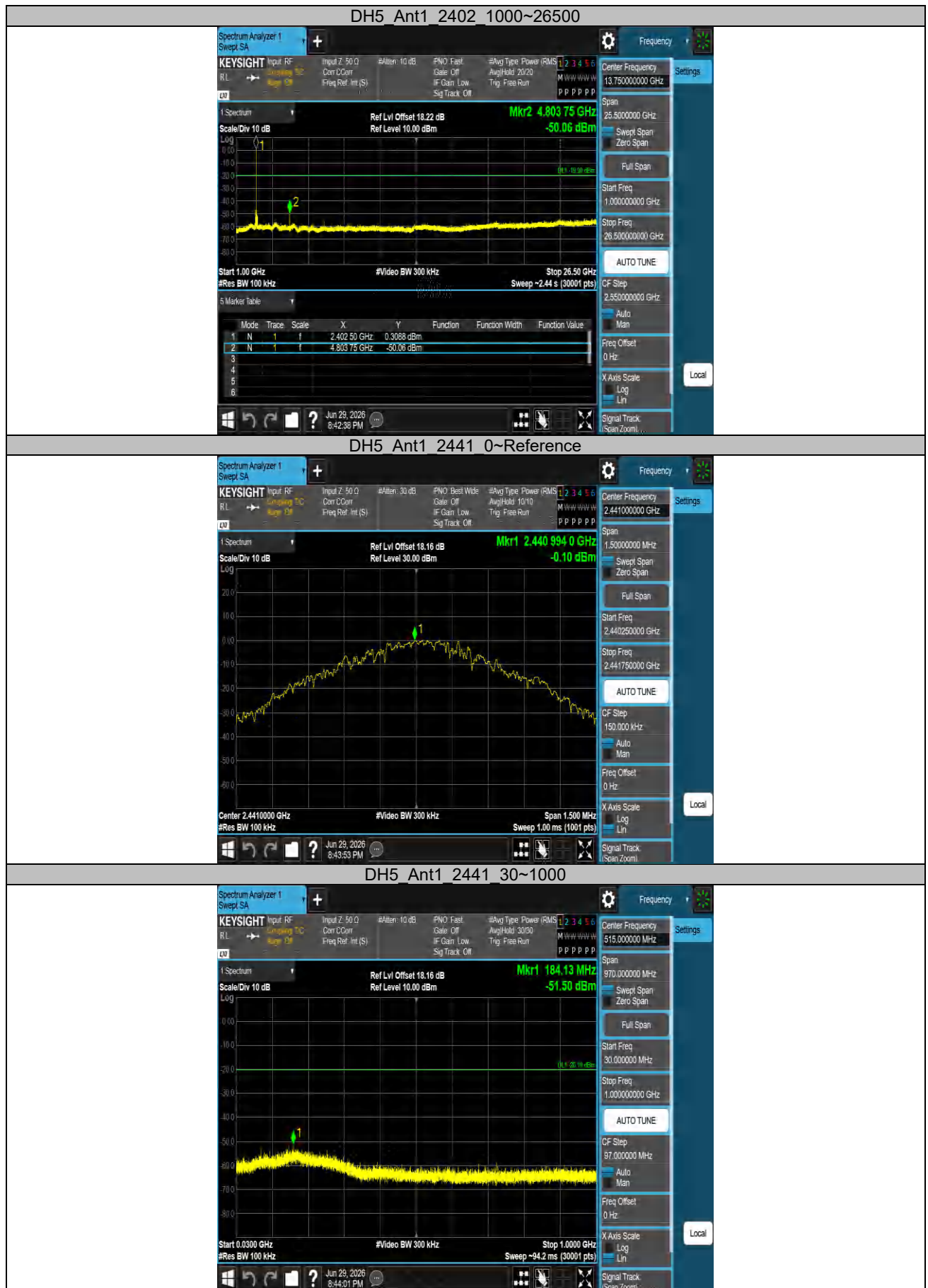
Appendix A.7: Test Results of Conducted Spurious Emission

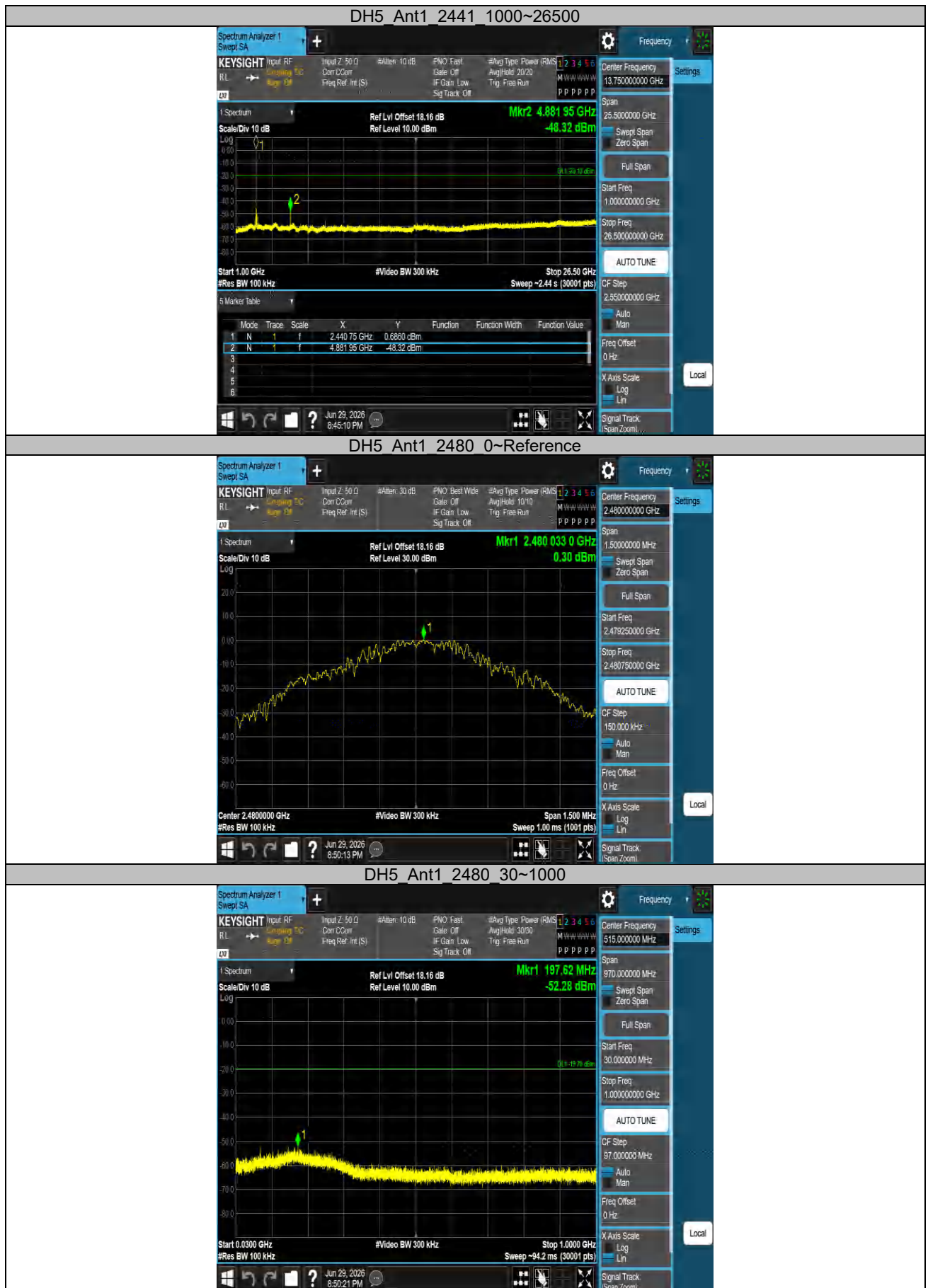
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-51.55	≤-19.9	PASS
			1000~26500	0.10	-50.06	≤-19.9	PASS
		2441	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-51.5	≤-20.1	PASS
			1000~26500	-0.10	-48.33	≤-20.1	PASS
		2480	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-52.28	≤-19.7	PASS
			1000~26500	0.30	-48.54	≤-19.7	PASS
2DH5	Ant1	2402	Reference	-2.82	-2.82	---	PASS
			30~1000	-2.82	-51.82	≤-22.82	PASS
			1000~26500	-2.82	-51.99	≤-22.82	PASS
		2441	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-44.82	≤-20.13	PASS
			1000~26500	-0.13	-48.14	≤-20.13	PASS
		2480	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-52.52	≤-19.62	PASS
			1000~26500	0.38	-50.79	≤-19.62	PASS

Test Graphs

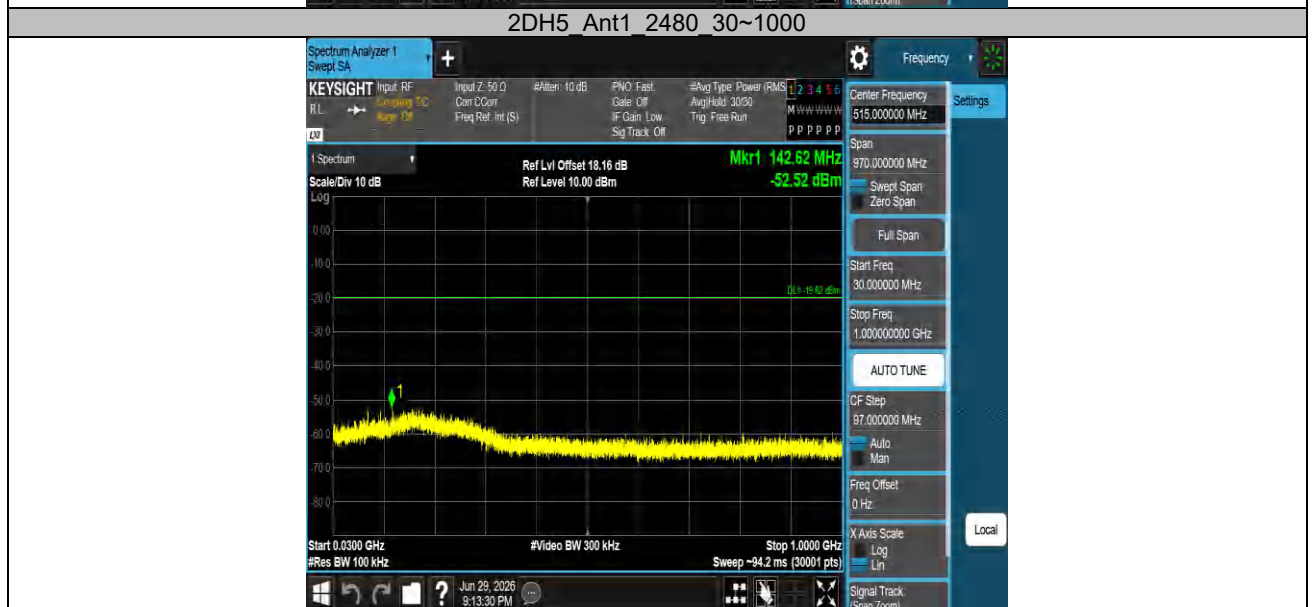
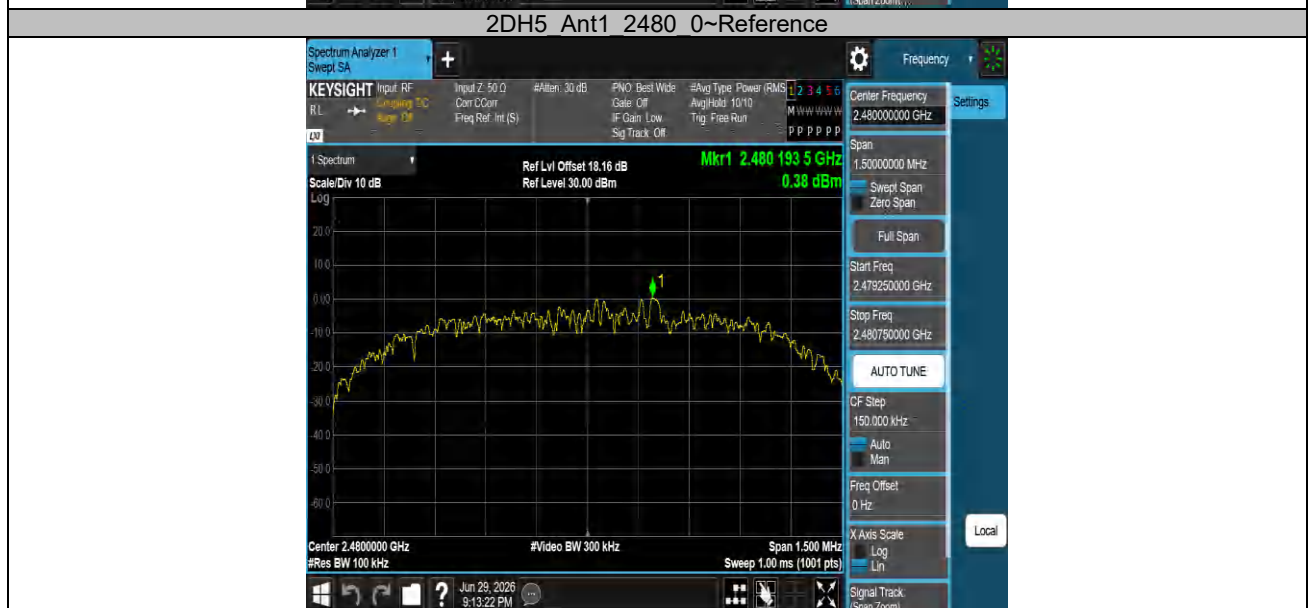














Appendix A.8: Test Results of Radiated Spurious Emissions

Note:

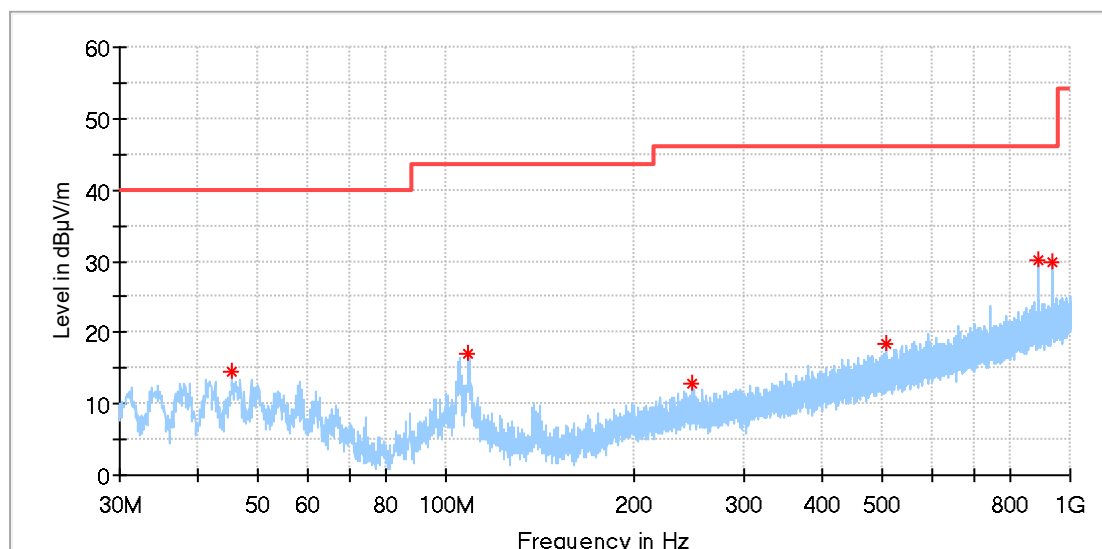
- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

Worst case:

EUT Information

EUT Name:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

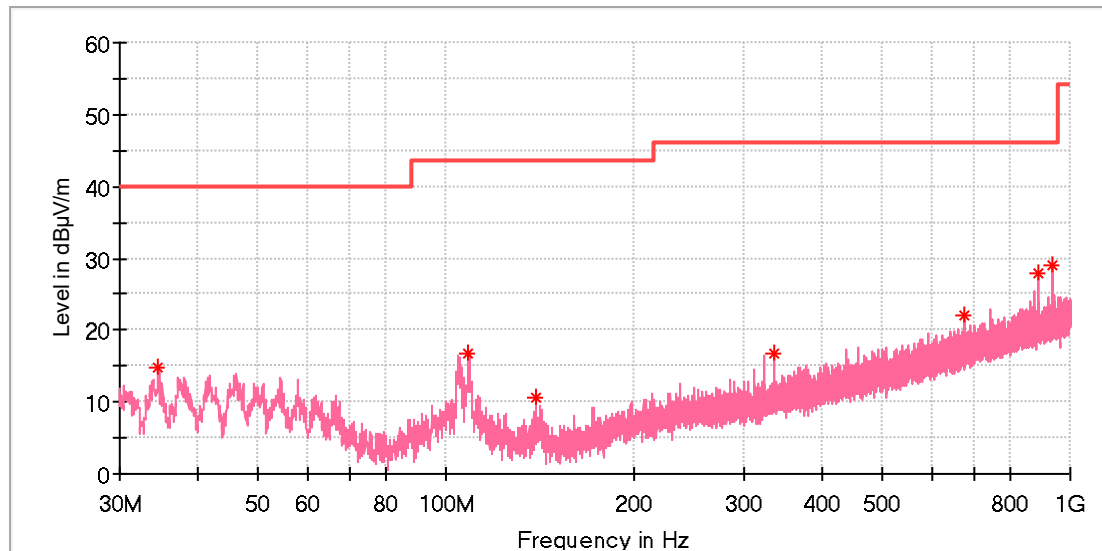
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.358333	14.58	40.00	25.42	100.0	H	209.0	-18.9
108.785556	16.94	43.50	26.56	100.0	H	81.0	-19.1
247.926667	12.77	46.00	33.23	100.0	H	154.0	-17.4
507.240000	18.55	46.00	27.45	100.0	H	238.0	-11.8
890.982778	30.22	46.00	15.78	100.0	H	0.0	-4.9
936.950000	29.96	46.00	16.04	100.0	H	138.0	-4.4

Final_Result

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

EUT Name: ME WIRELESS SPEAKER
Model: EBA2-265007A
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 27236063 /A004283643-003
Test Voltage: Battery
Remark: Temp 23.2°C Humi:55%
Test Standard: FCC 15.247
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)
34.634444	14.73	40.00	25.27	100.0	V	84.0	-22.1
108.785556	16.85	43.50	26.65	100.0	V	76.0	-19.1
139.178889	10.61	43.50	32.89	100.0	V	60.0	-22.3
335.981111	16.83	46.00	29.17	100.0	V	324.0	-15.1
675.373333	21.97	46.00	24.03	100.0	V	333.0	-8.4
890.982778	27.88	46.00	18.12	100.0	V	251.0	-4.9
936.950000	29.04	46.00	16.96	100.0	V	52.0	-4.4

Final_Result

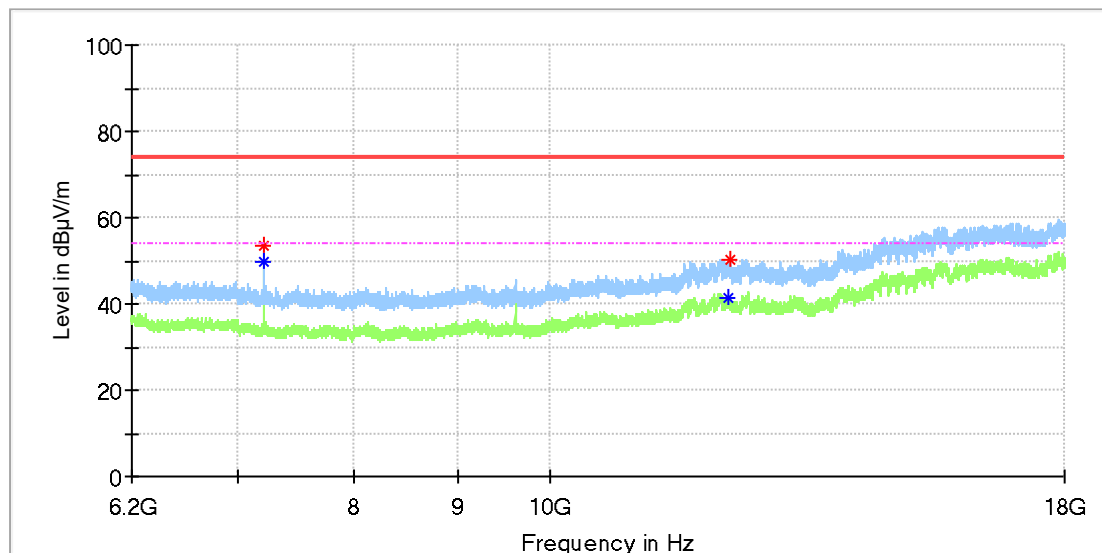
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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

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:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

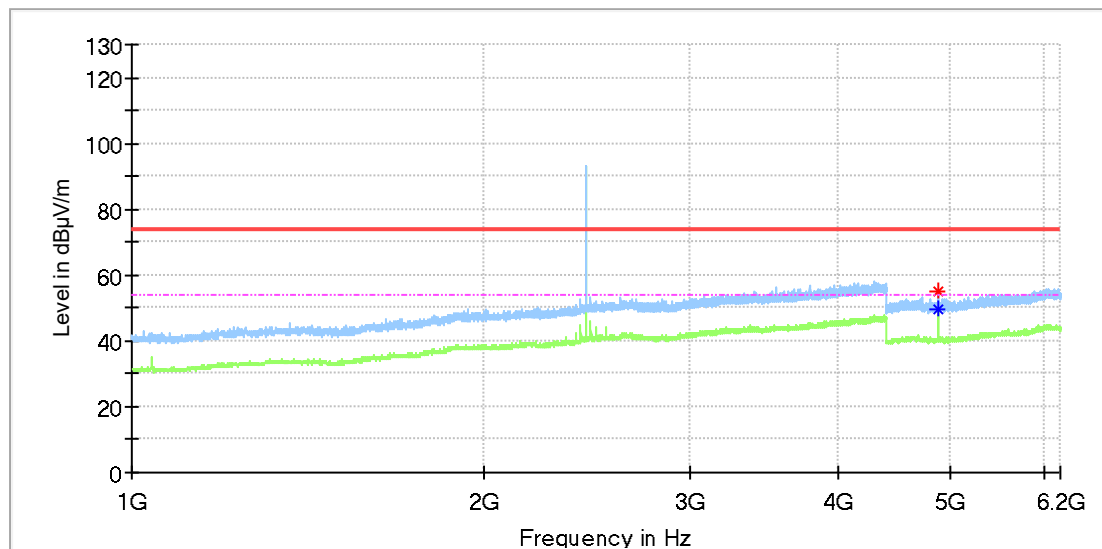
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	49.59	54.00	4.41	150.0	H	324.0	8.8
7205.950000	53.54	---	74.00	20.46	150.0	H	324.0	8.8
12270.116667	---	41.56	54.00	12.44	150.0	H	205.0	16.1
12282.408333	50.46	---	74.00	23.54	150.0	H	78.0	16.0

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:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
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)
4881.500000	55.22	---	74.00	18.78	150.0	H	163.0	13.3
4882.000000	---	49.48	54.00	4.52	150.0	H	237.0	13.3

Final Result

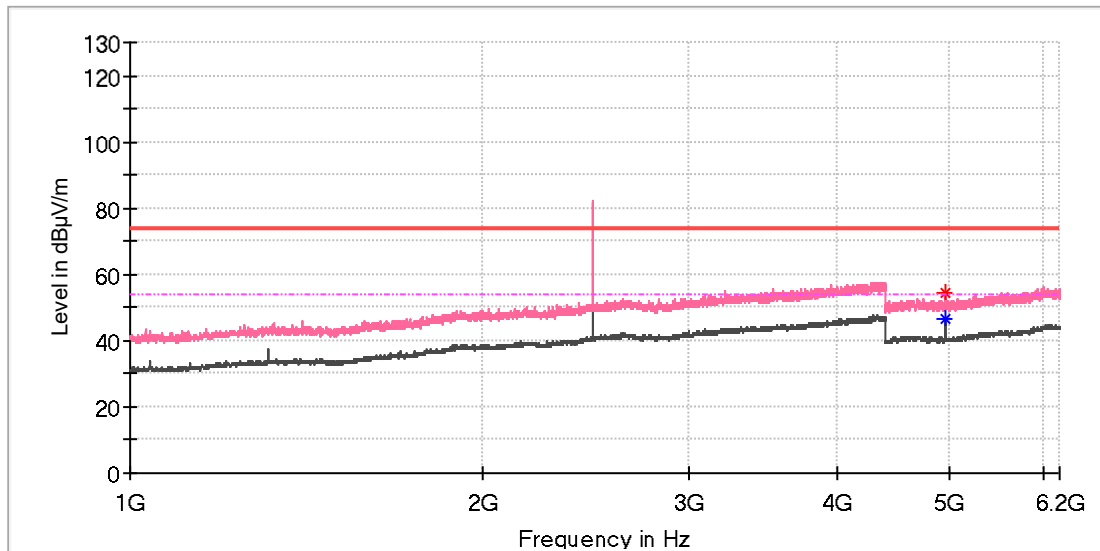
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000	100.000	100.000	100.000	100.000	100.000		100.000	100.000

EUT Information

EUT Name:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_High channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
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)
4959.500000	54.32	---	74.00	19.68	150.0	V	236.0	13.3
4960.000000	---	46.57	54.00	7.43	150.0	V	236.0	13.3

Final_Result

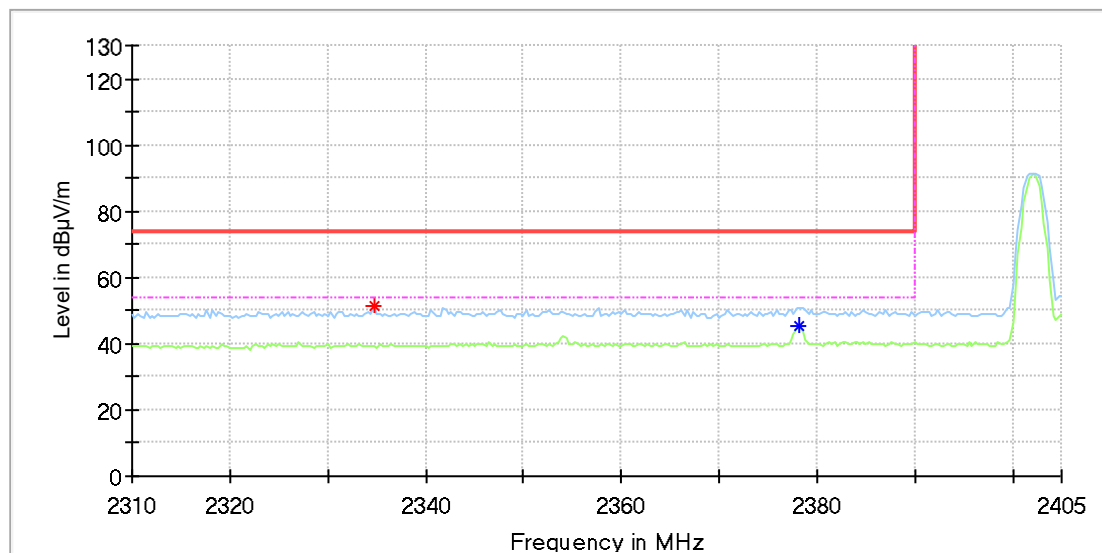
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	122.000000	122.000000	122.000000	0.000000	100.000000	000.000000	000.000000	000.000000

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.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

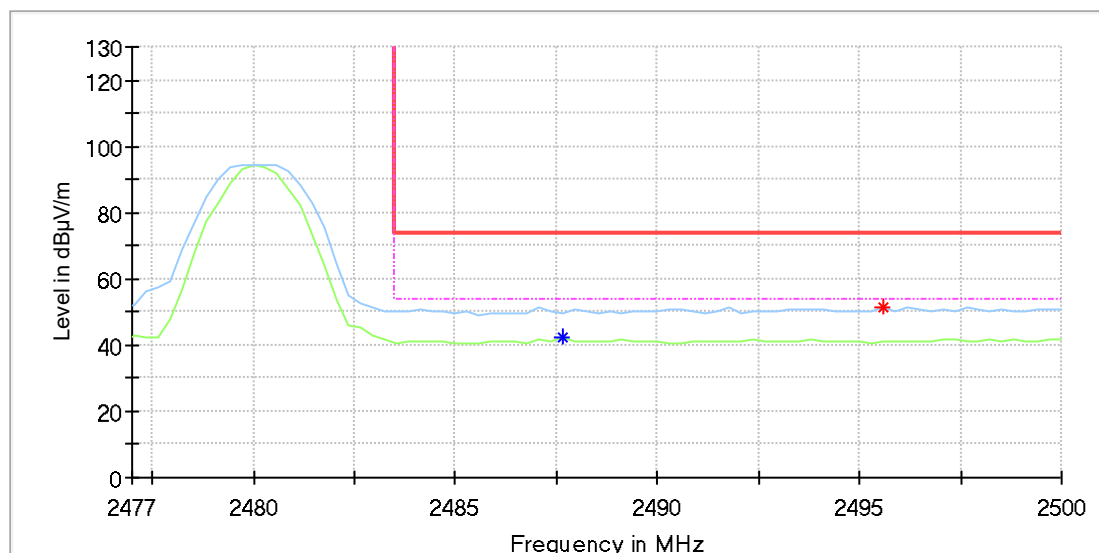
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2334.705882	51.13	---	74.00	22.87	150.0	H	147.0	8.3
2378.235294	---	45.19	54.00	8.81	150.0	H	136.0	8.5

Final Result

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

EUT Name:	ME WIRELESS SPEAKER
Model:	EBA2-265007A
Test Mode:	BR_DH5_High channel
Order No/Sample No:	27236063 /A004283643-003
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
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)
2487.647059	---	42.03	54.00	11.97	150.0	H	37.0	9.0
2495.588235	51.52	---	74.00	22.48	150.0	H	141.0	9.0

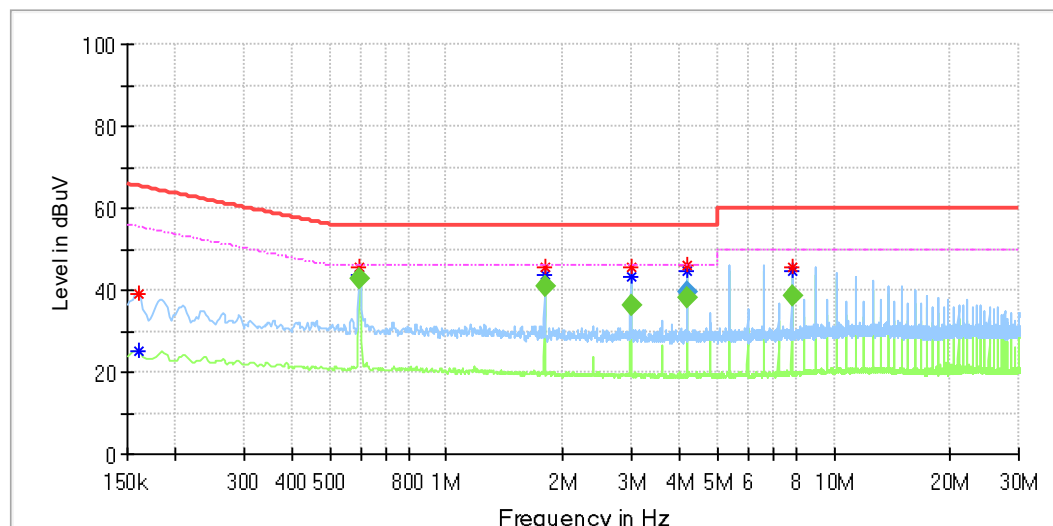
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	118.0	118.0	118.0	0.0	100.0	0	0	0

Appendix A.10: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: ME WIRELESS SPEAKER
Model: EBA2-265007A
Order No/Sample No: 27236063 /A004283643-003
Test Mode: Charging + BT Link
Test Voltage: AC 120V/60Hz
Remark: Temp:24.4 ; Humi:50%
Test standard: FCC PART 15
Tested By: Charron Chen
Reviewed by: Charlie Zha



Critical Freqs

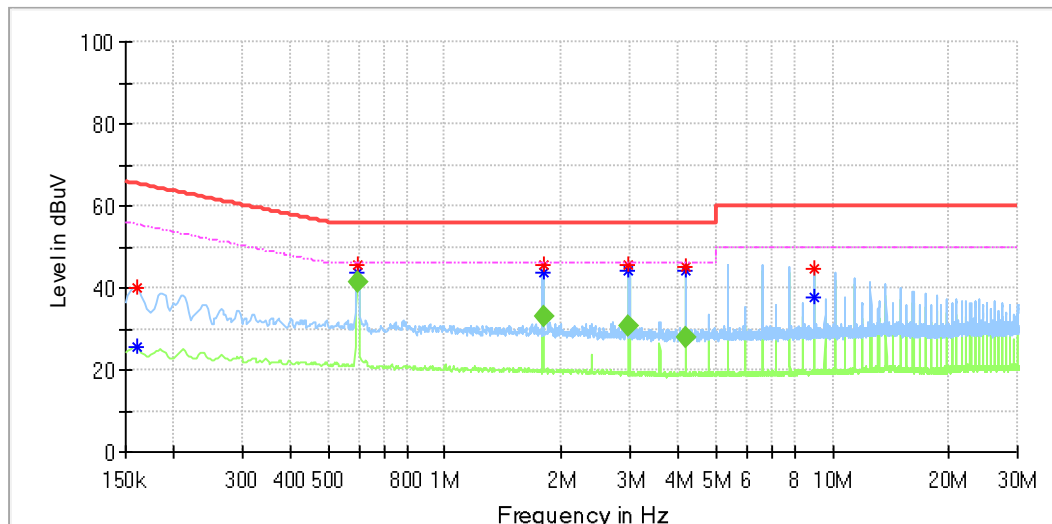
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.160	---	25.1	55.47	30.38	L1	9.6
0.160	39.1	---	65.47	26.35	L1	9.6
0.598	45.6	---	56.00	10.37	L1	9.6
0.598	---	43.8	46.00	2.16	L1	9.6
1.794	---	43.9	46.00	2.09	L1	9.6
1.797	45.4	---	56.00	10.60	L1	9.6
2.991	---	43.1	46.00	2.86	L1	9.6
2.993	45.6	---	56.00	10.41	L1	9.6
4.190	---	44.4	46.00	1.56	L1	9.7
4.190	45.9	---	56.00	10.11	L1	9.7
7.784	45.7	---	60.00	14.32	L1	9.9
7.784	---	44.4	50.00	5.55	L1	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.598	---	42.9	46.00	3.08	1000.0	9.0	L1	9.6
1.794	---	41.0	46.00	4.99	1000.0	9.0	L1	9.6
2.991	---	36.1	46.00	9.92	1000.0	9.0	L1	9.6
4.190	39.4	---	56.00	16.61	1000.0	9.0	L1	9.7
4.190	---	37.9	46.00	8.06	1000.0	9.0	L1	9.7
7.784	---	38.5	50.00	11.51	1000.0	9.0	L1	9.9

EUT Information

EUT Name: ME WIRELESS SPEAKER
Model: EBA2-265007A
Order No/Sample No: 27236063 /A004283643-003
Test Mode: Charging + BT Link
Test Voltage: AC 120V/60Hz
Remark: Temp:24.4 ; Humi:50%
Test standard: FCC PART 15
Tested By: Charron Chen
Reviewed by: Charlie Zha



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.160	40.0	---	65.47	25.43	N	9.8
0.160	---	25.7	55.47	29.74	N	9.8
0.595	---	43.7	46.00	2.33	N	9.9
0.595	45.6	---	56.00	10.39	N	9.9
1.789	---	43.9	46.00	2.11	N	9.9
1.789	45.7	---	56.00	10.35	N	9.9
2.983	45.4	---	56.00	10.64	N	9.8
2.986	---	44.1	46.00	1.87	N	9.8
4.177	45.2	---	56.00	10.82	N	9.7
4.180	---	44.2	46.00	1.79	N	9.7
8.951	---	37.8	50.00	12.20	N	9.7
8.956	44.5	---	60.00	15.49	N	9.7

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.595	---	41.4	46.00	4.62	1000.0	9.0	N	9.9
1.789	---	33.0	46.00	13.00	1000.0	9.0	N	9.9
2.986	---	30.9	46.00	15.12	1000.0	9.0	N	9.8
4.180	---	28.0	46.00	17.95	1000.0	9.0	N	9.7