

Appendix C: Test Results of Bluetooth Low Energy

APPENDIX C: TEST RESULTS OF BLUETOOTH LOW ENERGY	1
APPENDIX C.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
APPENDIX C.2: TEST RESULTS OF 6dB BANDWIDTH.....	3
APPENDIX C.3: TEST RESULTS OF 99% BANDWIDTH	4
APPENDIX C.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH.....	5
<i>Conducted Spurious Emission</i>	5
<i>Band Edge</i>	9
APPENDIX C.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	10
30 MHz to 1GHz.....	10
1GHz-18GHz.....	12
APPENDIX C.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	24
APPENDIX C.7: TEST RESULTS OF CONDUCTED EMISSION.....	28

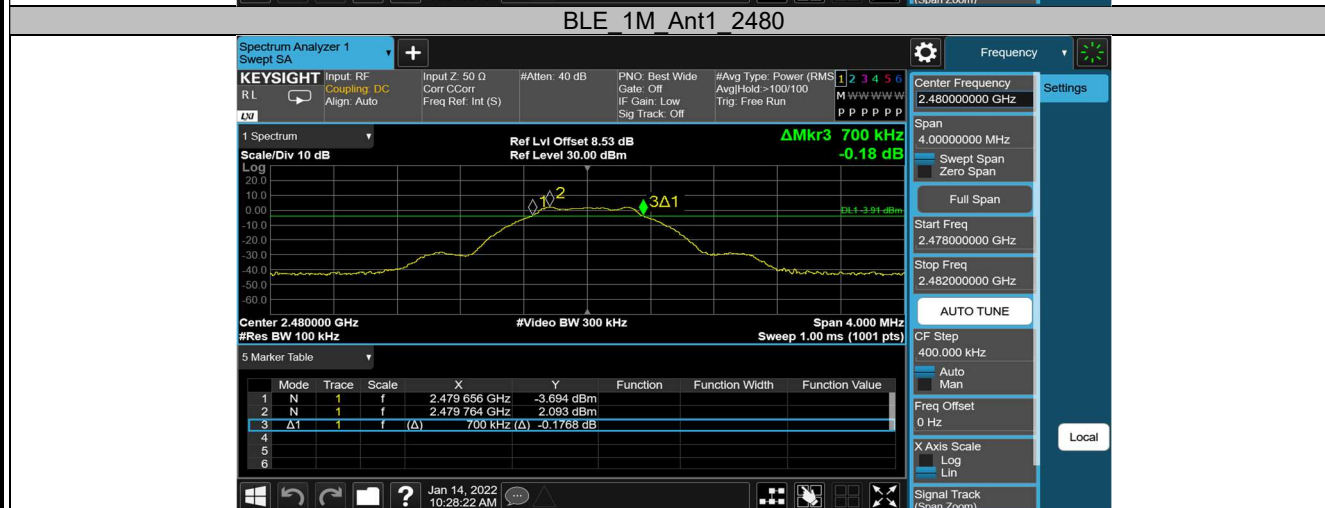
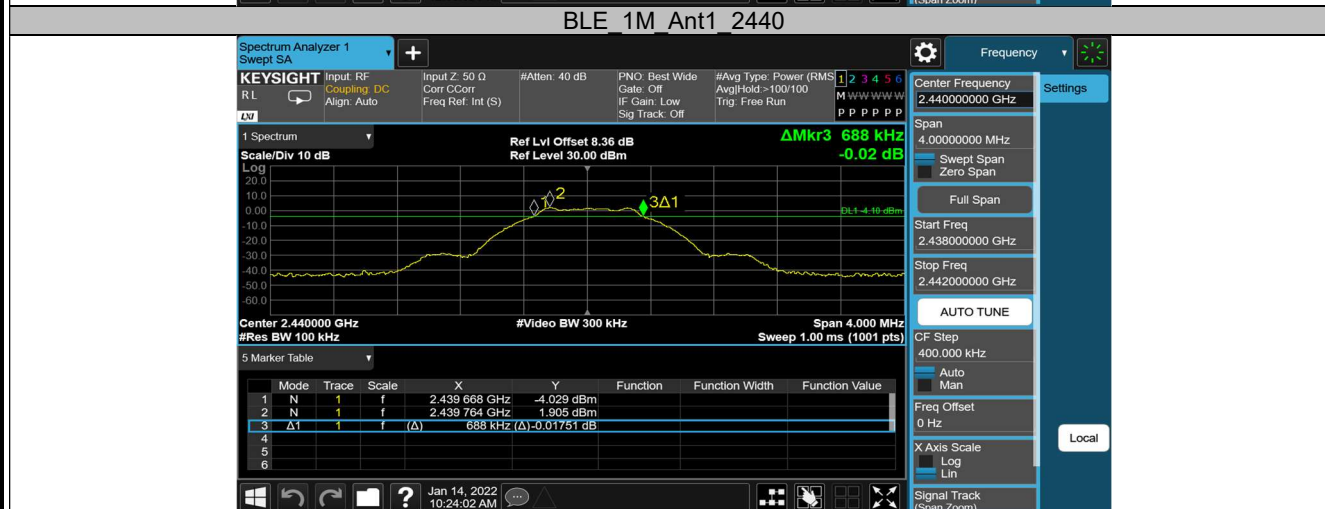
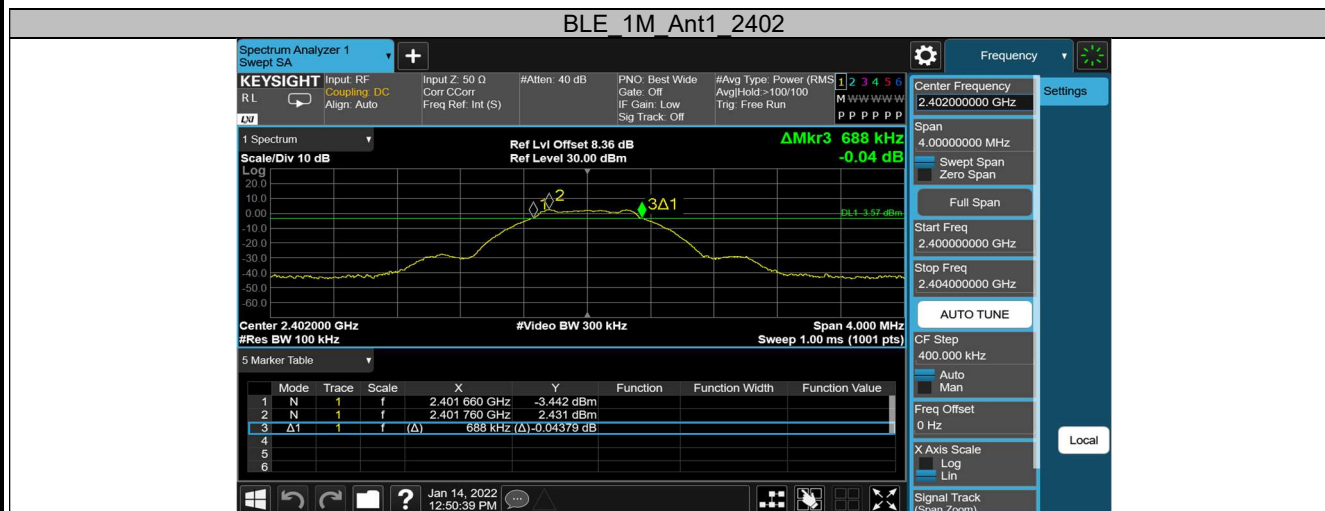
Appendix C.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.27	≤8	PASS
		2440	-13.03	≤8	PASS
		2480	-12.81	≤8	PASS



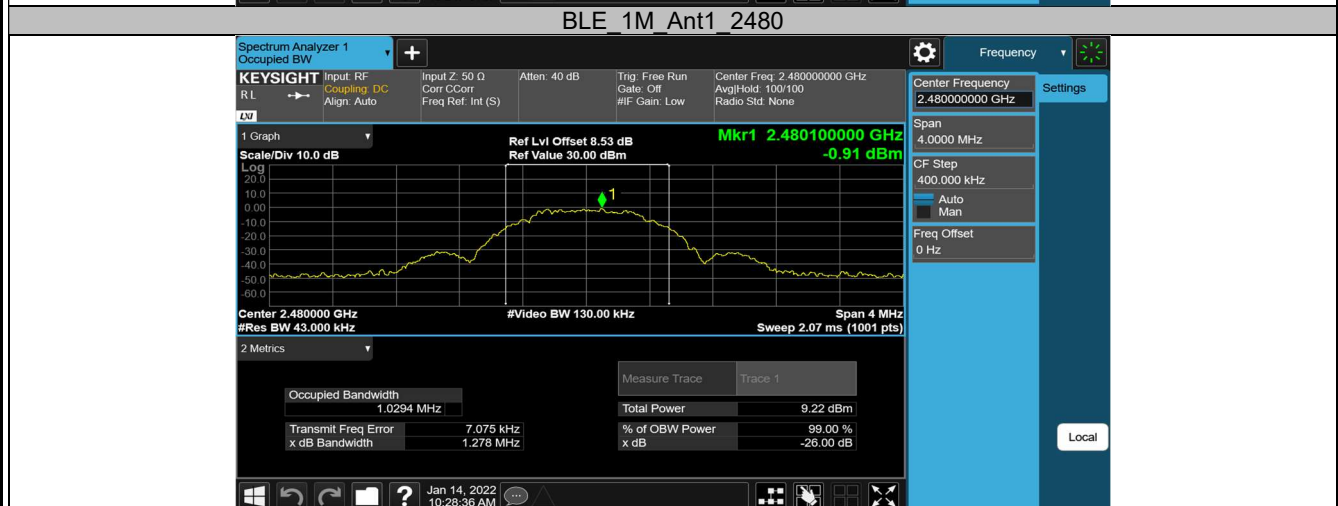
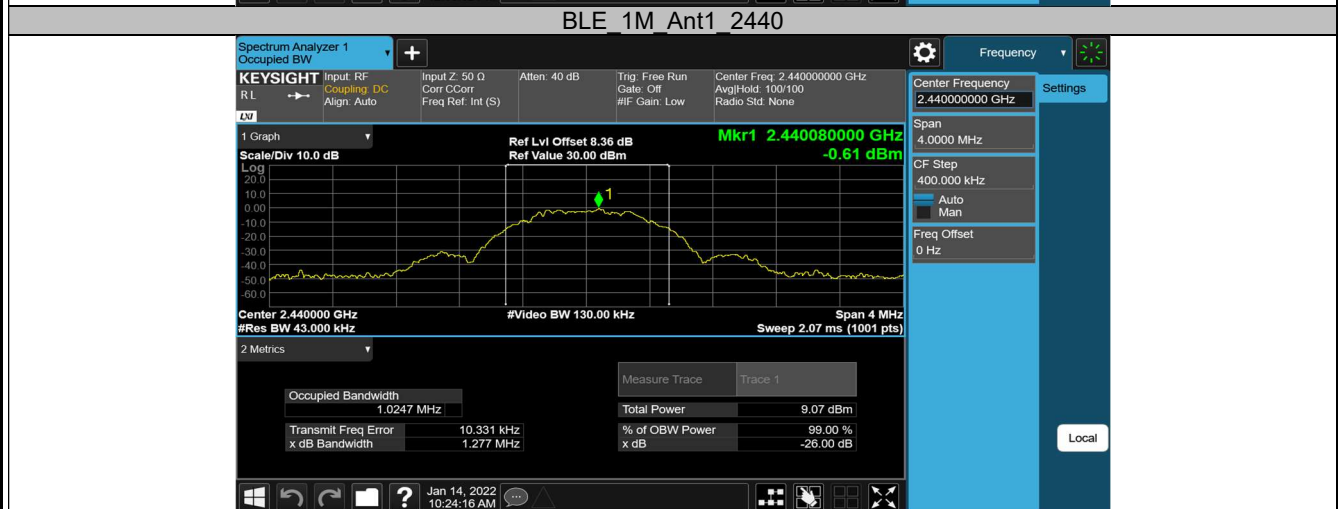
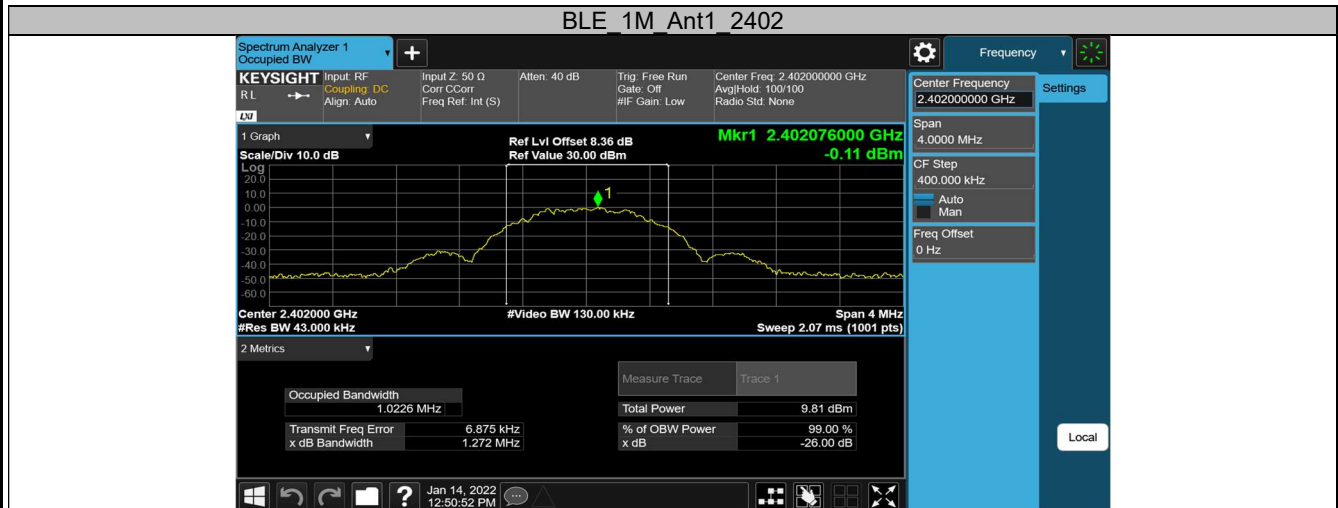
Appendix C.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.660	2402.348	0.5	PASS
		2440	0.688	2439.668	2440.356	0.5	PASS
		2480	0.700	2479.656	2480.356	0.5	PASS



Appendix C.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0226	2401.496	2402.518	---	PASS
		2440	1.0247	2439.498	2440.523	---	PASS
		2480	1.0294	2479.492	2480.522	---	PASS

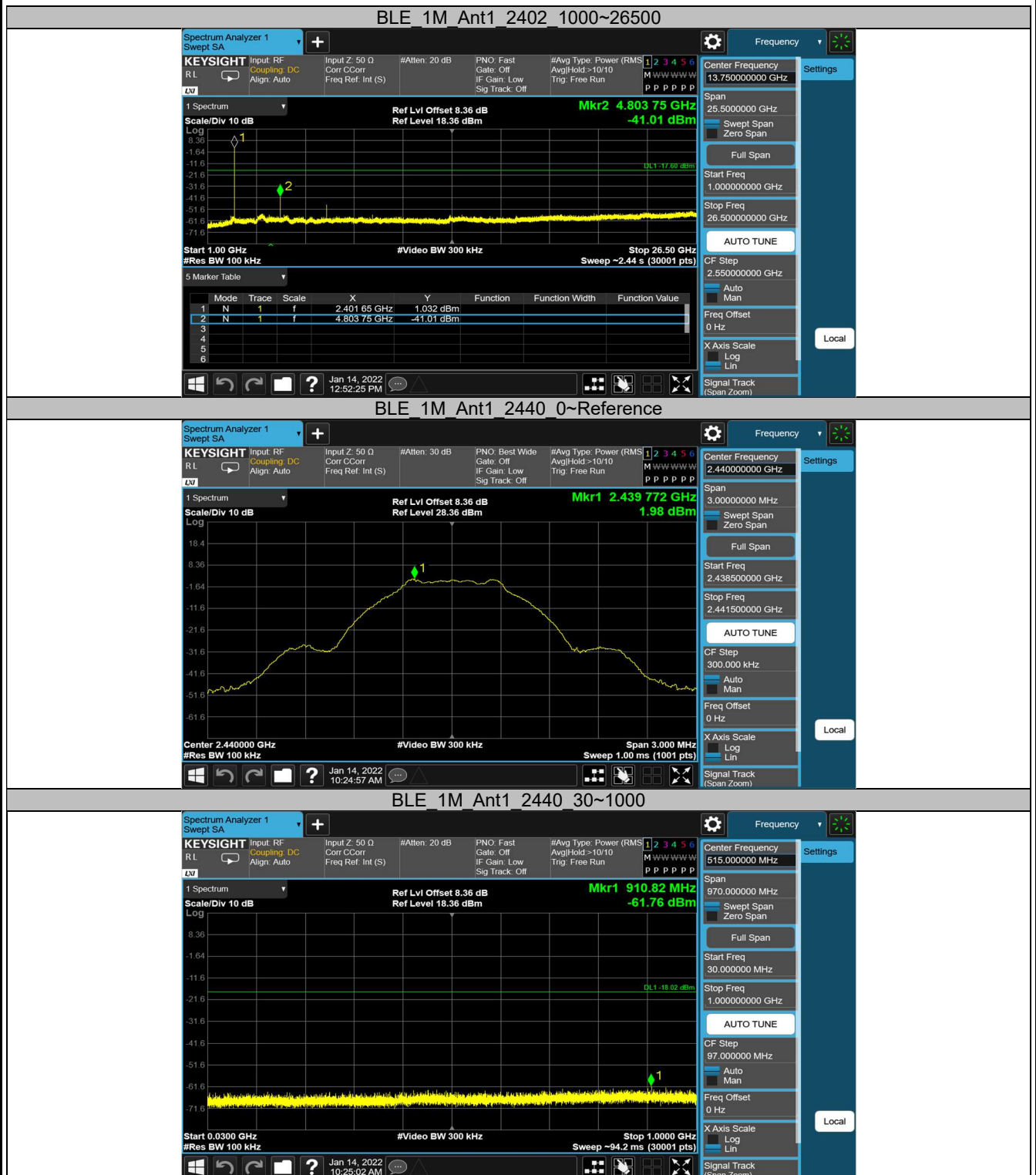


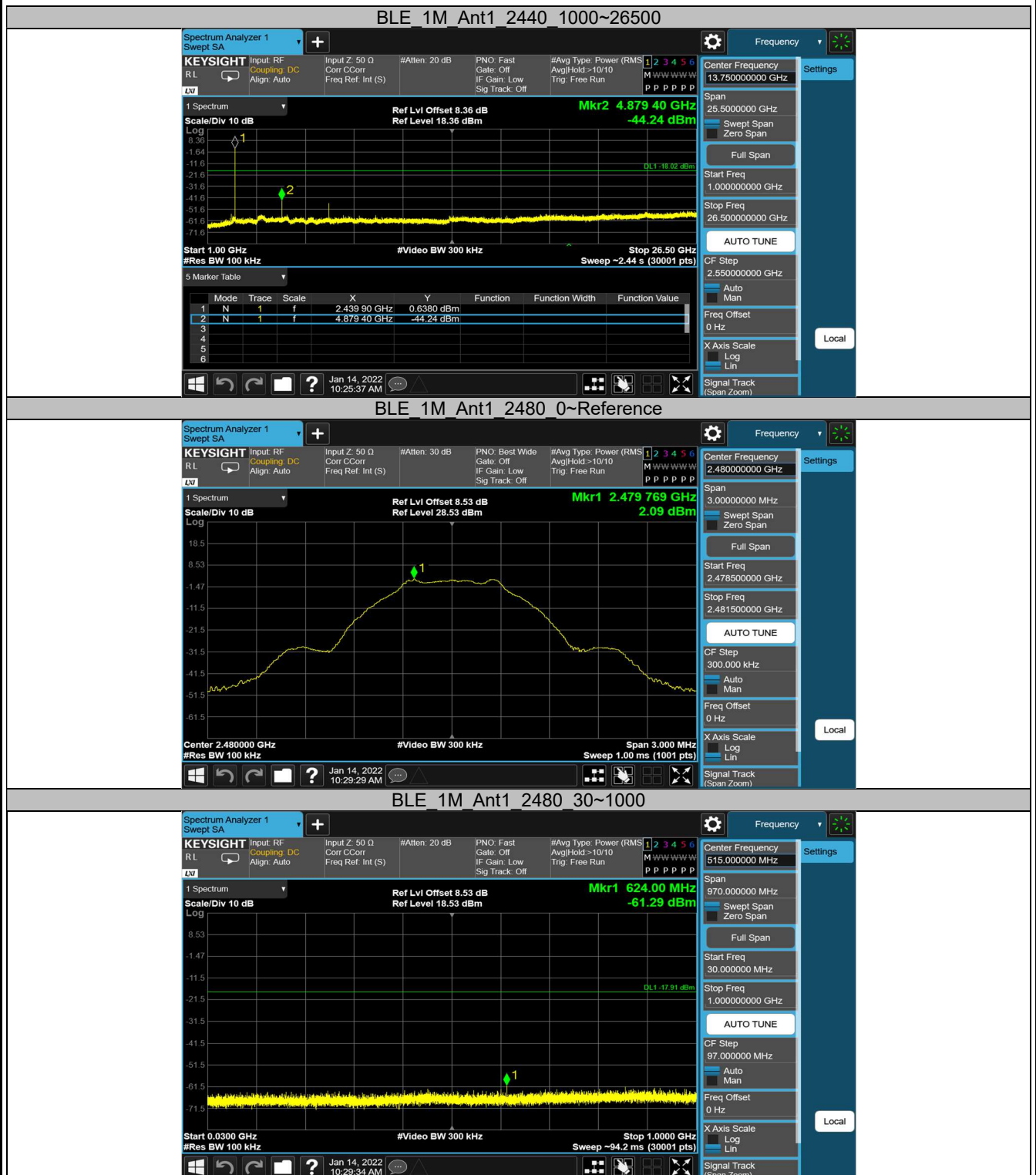
Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

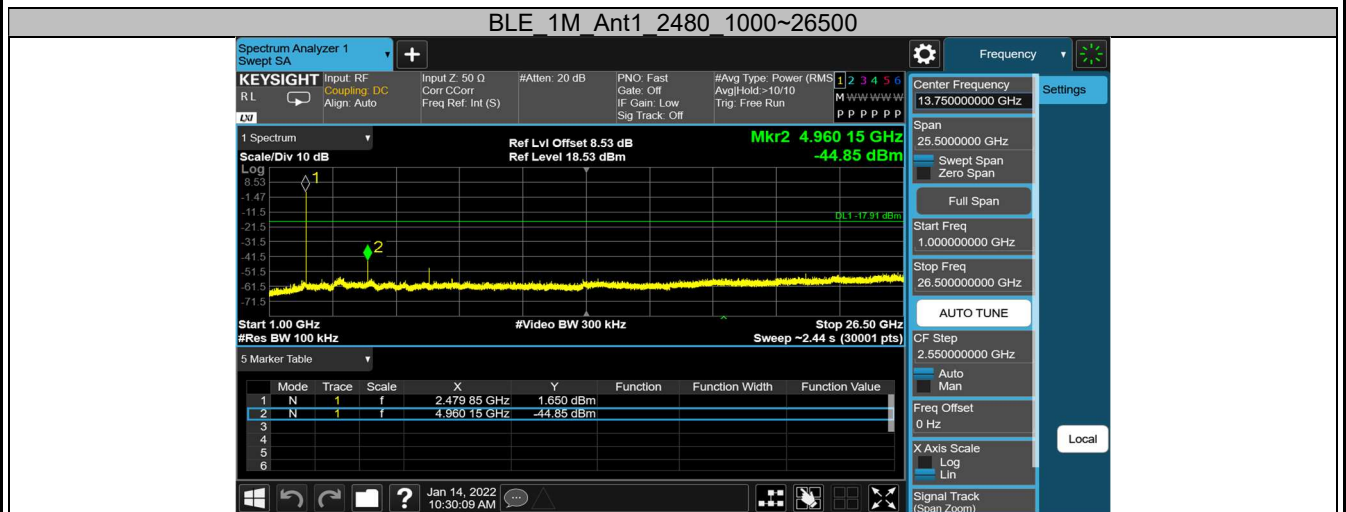
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-62.09	≤-17.6	PASS
			1000~26500	2.40	-41.01	≤-17.6	PASS
		2440	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-61.77	≤-18.02	PASS
			1000~26500	1.98	-44.24	≤-18.02	PASS
		2480	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-61.29	≤-17.91	PASS
			1000~26500	2.09	-44.85	≤-17.91	PASS



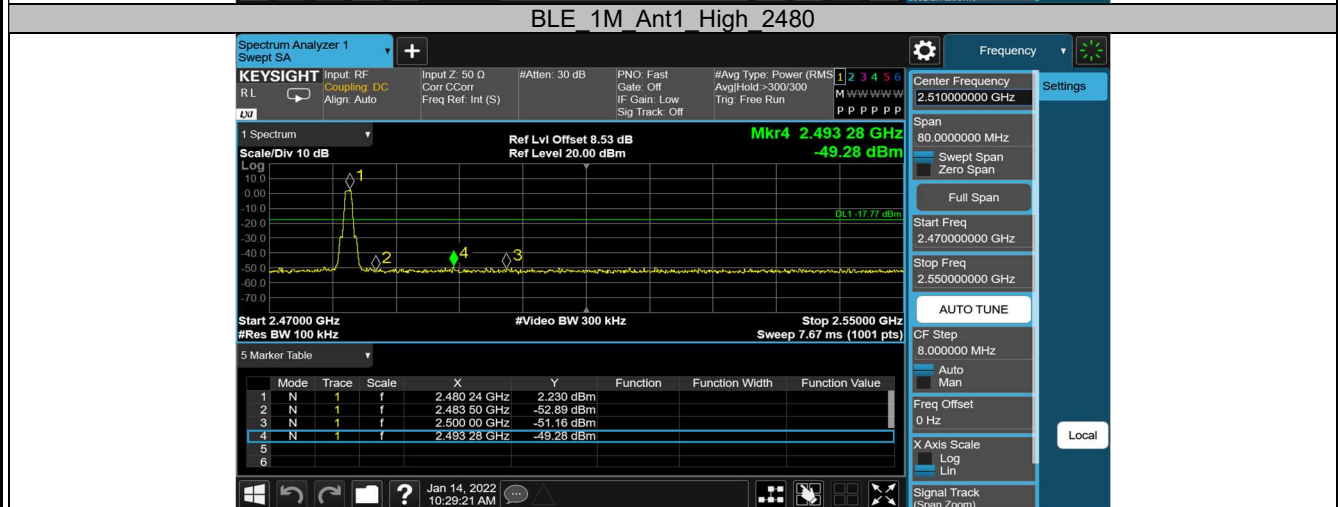
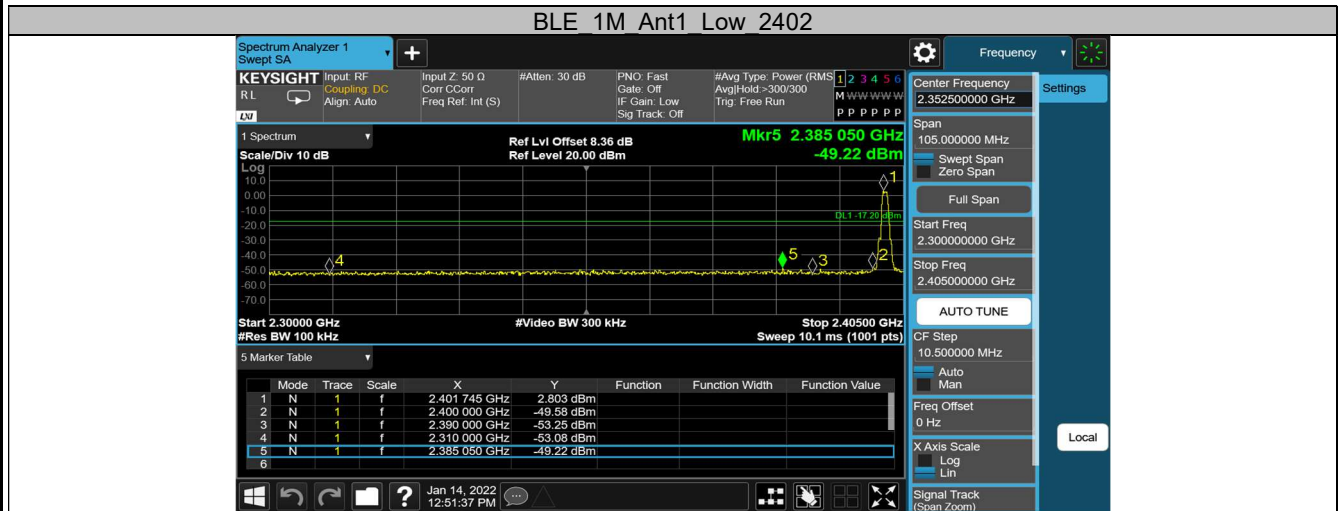






Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.80	-49.22	≤-17.2	PASS
		High	2480	2.23	-49.28	≤-17.77	PASS



Appendix C.5: Test Results of Radiated Spurious Emissions

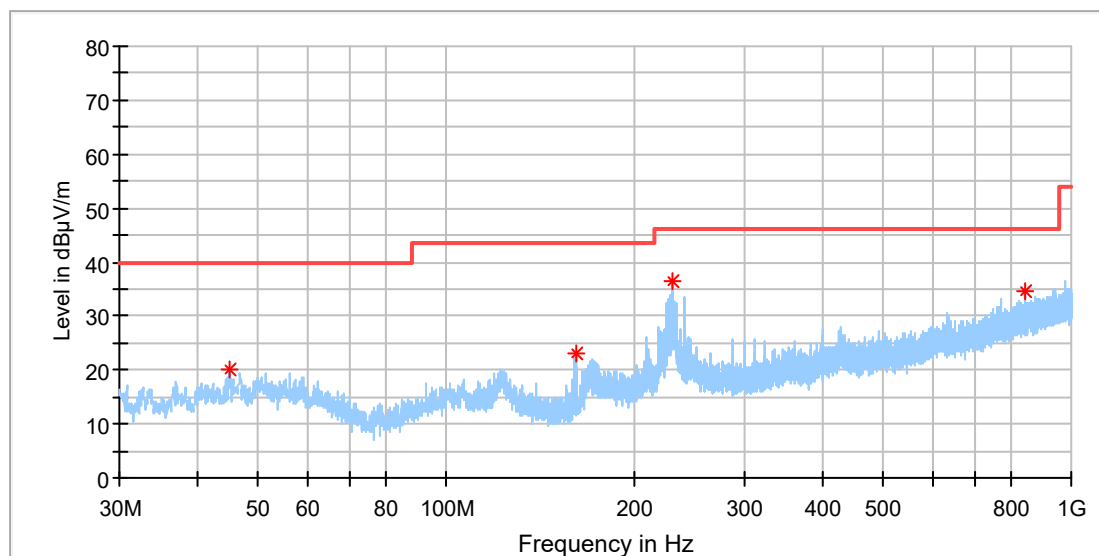
Note:

- 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.

30 MHz to 1GHz

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168334216/A003201415-003
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

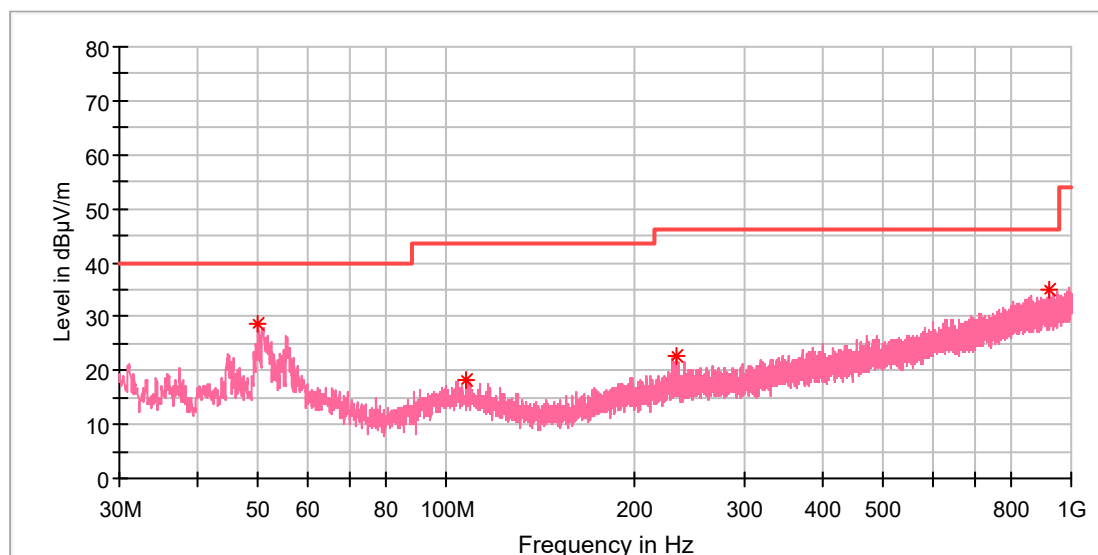
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.986500	20.16	40.00	19.84	100.0	H	258.0	-18.8
161.435000	23.23	43.50	20.27	100.0	H	176.0	-21.7
230.256500	36.29	46.00	9.71	100.0	H	91.0	-18.0
844.800000	34.52	46.00	11.48	100.0	H	111.0	-5.6

Final Result

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168334216/A003201415-003
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
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)
50.030500	28.53	40.00	11.47	100.0	V	207.0	-18.3
107.260500	18.19	43.50	25.31	100.0	V	157.0	-18.9
233.506000	22.72	46.00	23.28	100.0	V	207.0	-17.9
920.508500	34.80	46.00	11.20	100.0	V	78.0	-4.8

Final Result

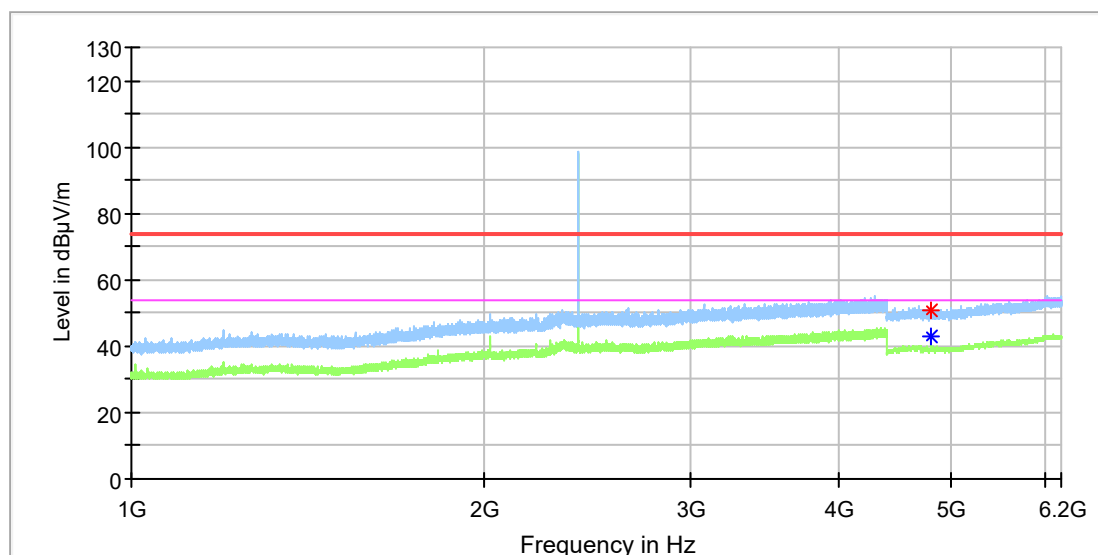
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz-18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168334216/A003183556-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

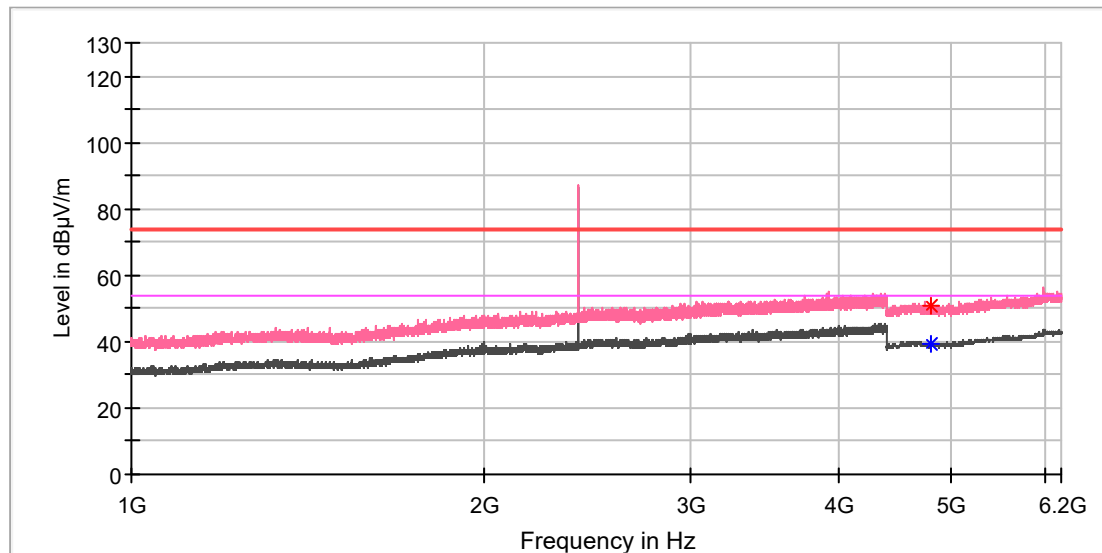
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	51.08	---	74.00	22.92	100.0	H	94.0	11.8
4804.000000	---	42.91	54.00	11.09	100.0	H	313.0	11.8

Final_Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

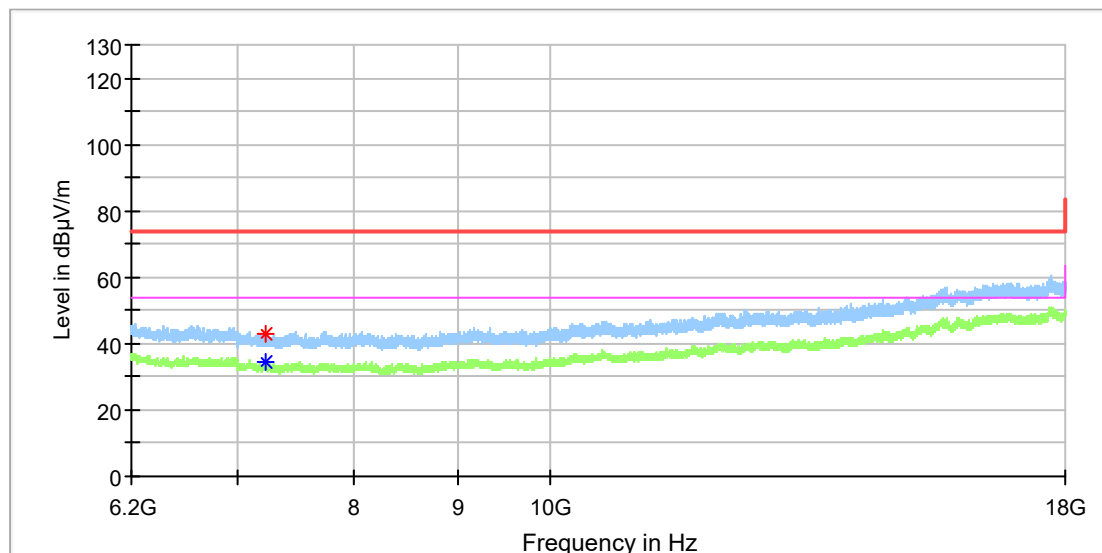
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	39.57	54.00	14.43	100.0	V	74.0	11.8
4809.500000	50.57	---	74.00	23.43	100.0	V	36.0	11.8

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

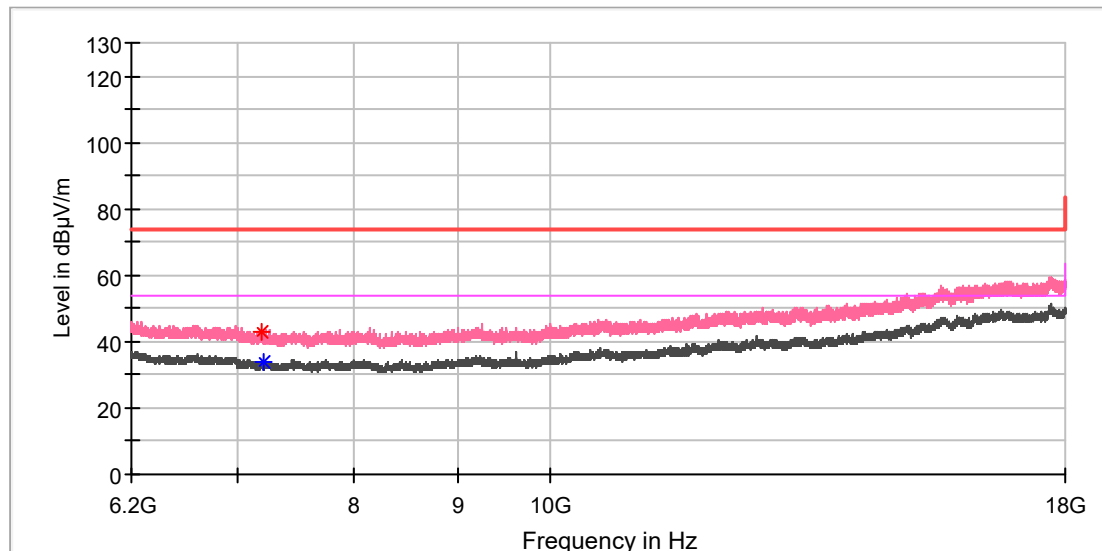
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7222.666667	---	34.39	54.00	19.61	100.0	H	104.0	8.7
7227.583333	42.69	---	74.00	31.31	100.0	H	54.0	8.7

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
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Critical Freqs

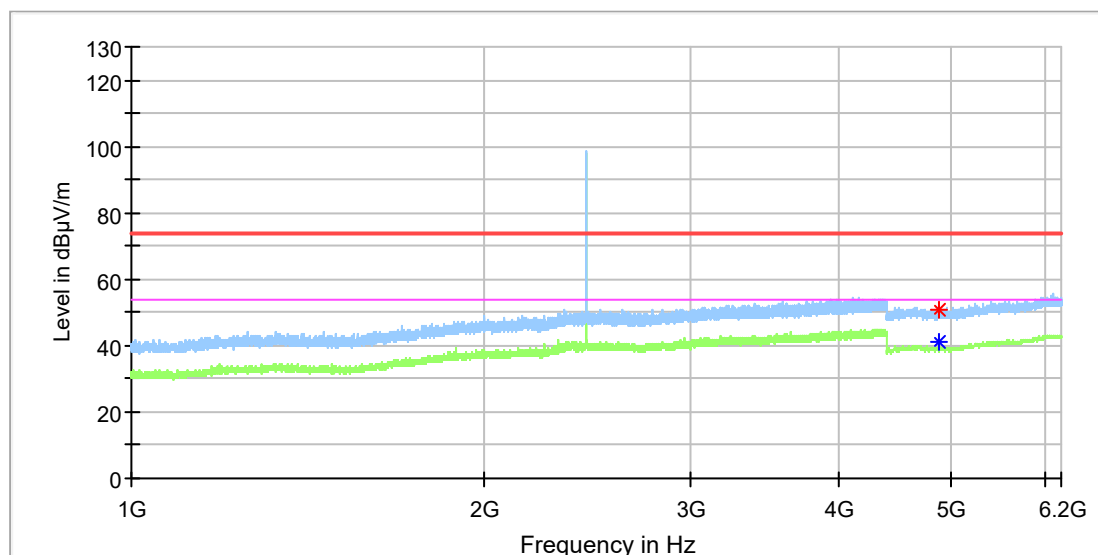
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7199.066667	42.76	---	74.00	31.24	100.0	V	275.0	8.8
7205.950000	---	33.96	54.00	20.04	100.0	V	127.0	8.8

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

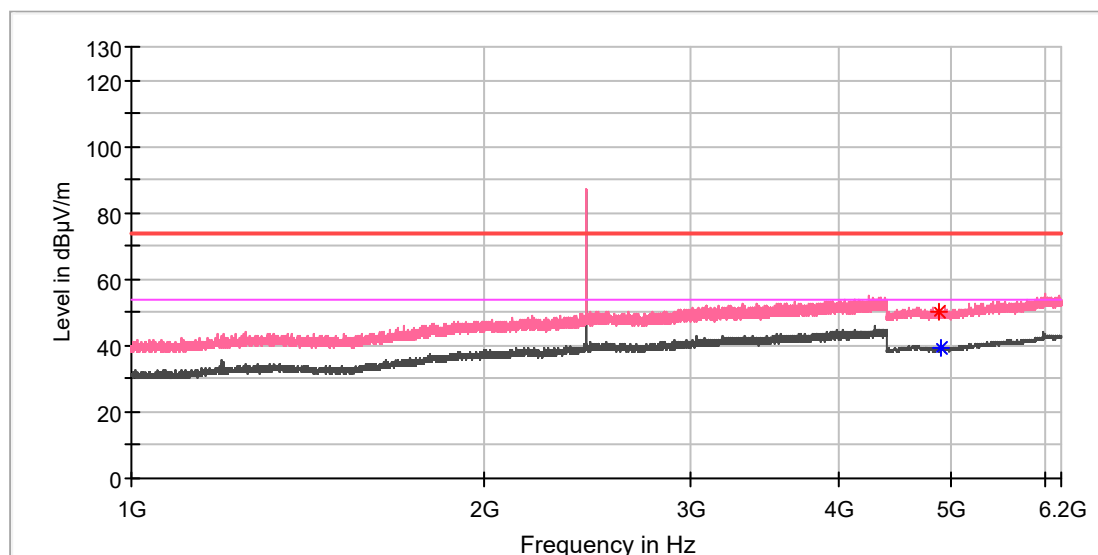
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	50.59	---	74.00	23.41	100.0	H	82.0	11.8
4880.000000	---	40.92	54.00	13.08	100.0	H	82.0	11.8

Final Result

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

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

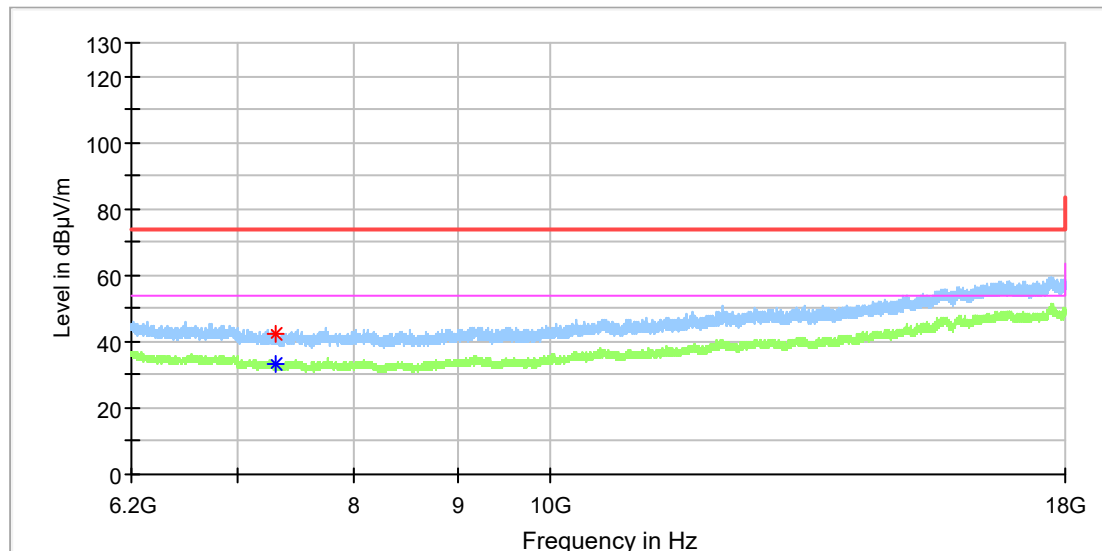
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	50.26	---	74.00	23.74	100.0	V	235.0	11.8
4890.500000	---	39.11	54.00	14.89	100.0	V	163.0	11.8

Final Result

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

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
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Critical Freqs

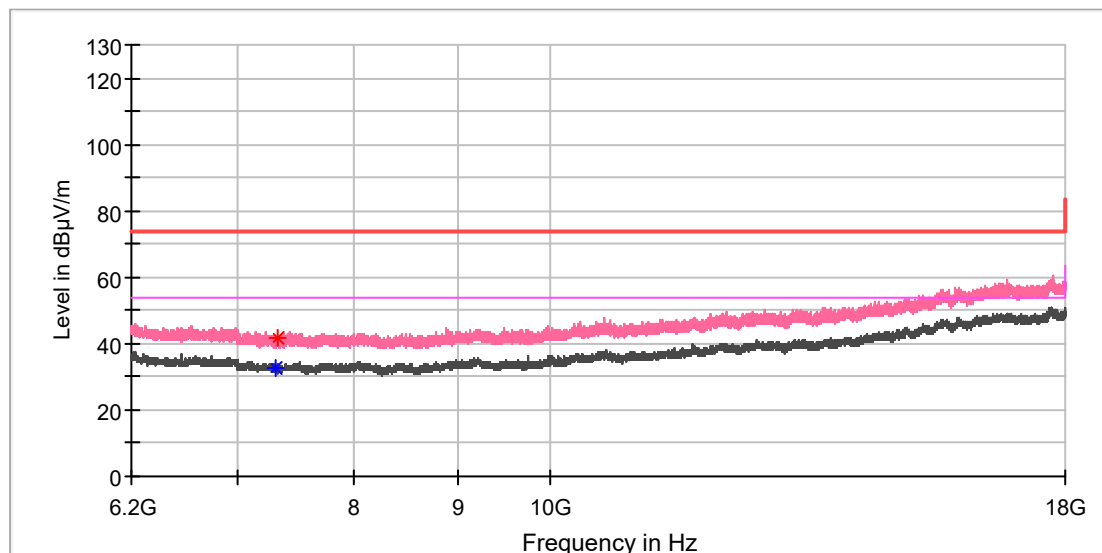
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7313.133333	42.38	---	74.00	31.62	100.0	H	125.0	8.2
7313.133333	---	33.06	54.00	20.94	100.0	H	125.0	8.2

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

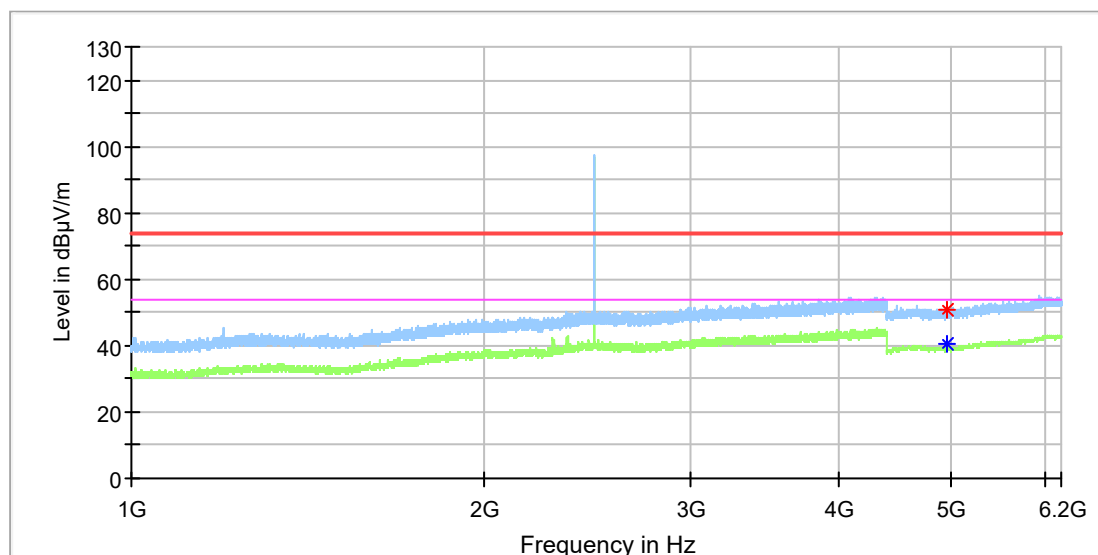
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	---	32.82	54.00	21.18	100.0	V	309.0	8.2
7324.933333	41.91	---	74.00	32.09	100.0	V	141.0	8.2

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_High channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

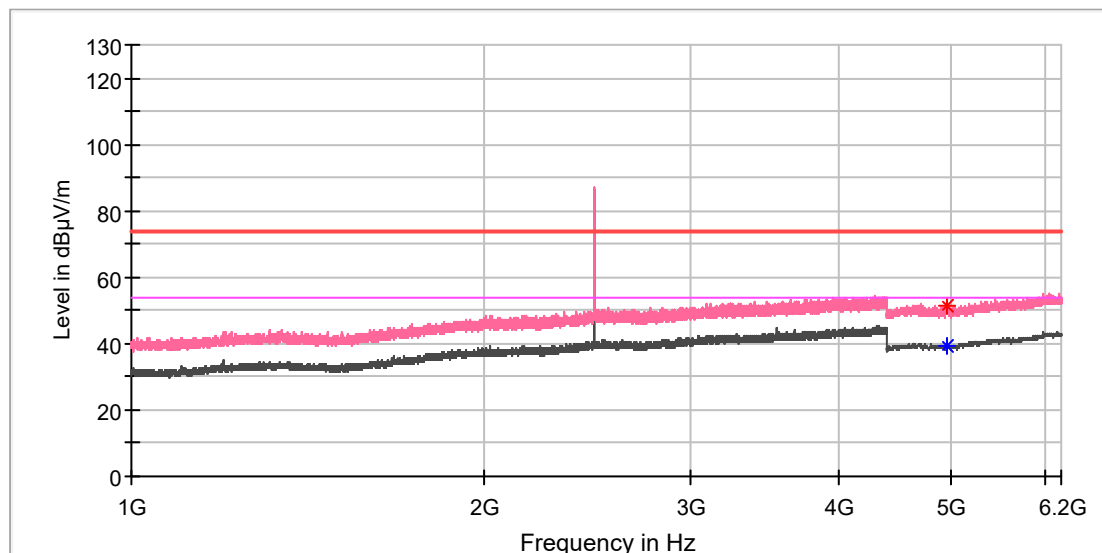
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4957.500000	50.77	---	74.00	23.23	100.0	H	21.0	11.8
4959.500000	---	40.26	54.00	13.74	100.0	H	195.0	11.8

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_High channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

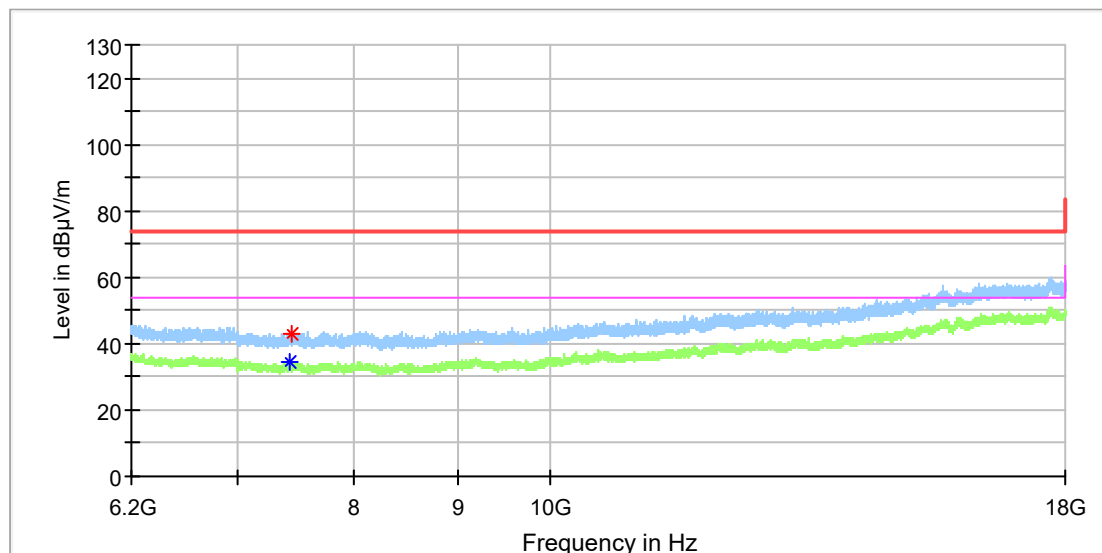
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4950.500000	---	39.45	54.00	14.55	100.0	V	4.0	11.8
4953.000000	51.58	---	74.00	22.42	100.0	V	76.0	11.8

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_High channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

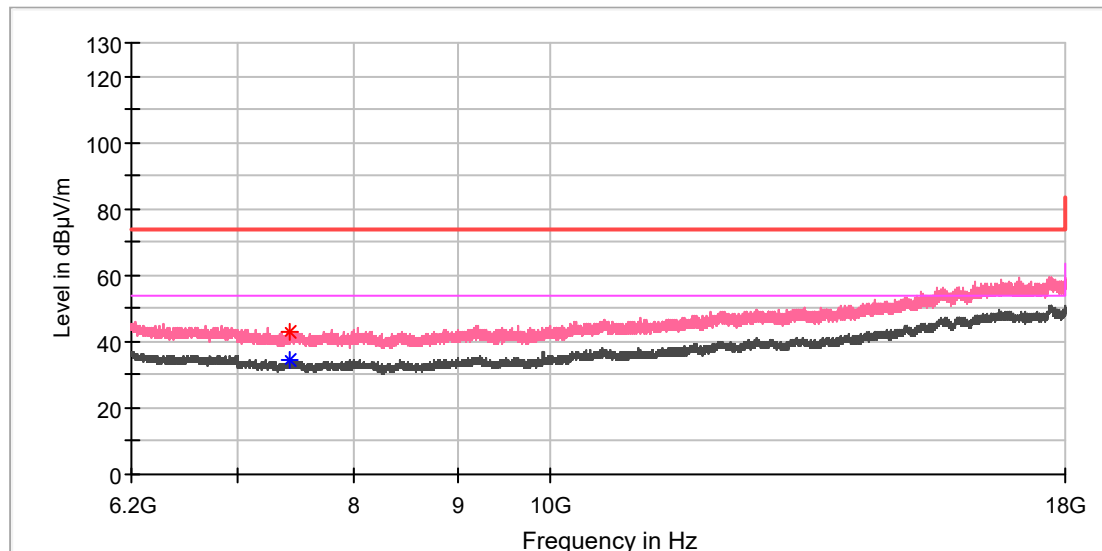
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7426.708333	---	34.20	54.00	19.80	100.0	H	211.0	8.4
7452.275000	42.64	---	74.00	31.36	100.0	H	281.0	8.5

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_High channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
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)
7421.791667	42.78	---	74.00	31.22	100.0	V	5.0	8.4
7427.200000	---	34.26	54.00	19.74	100.0	V	298.0	8.4

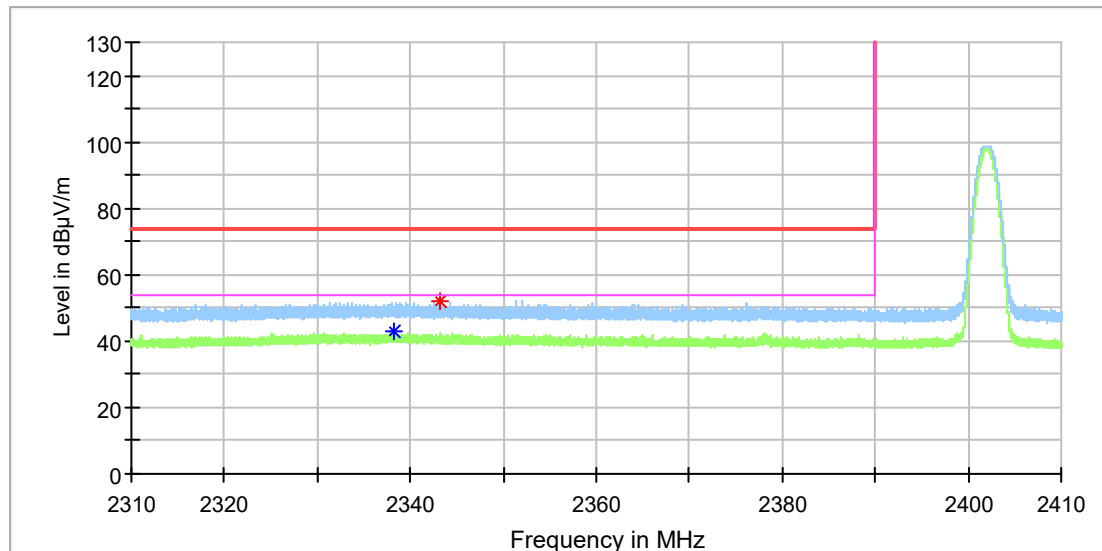
Final Result

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

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168334216/A003183556-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

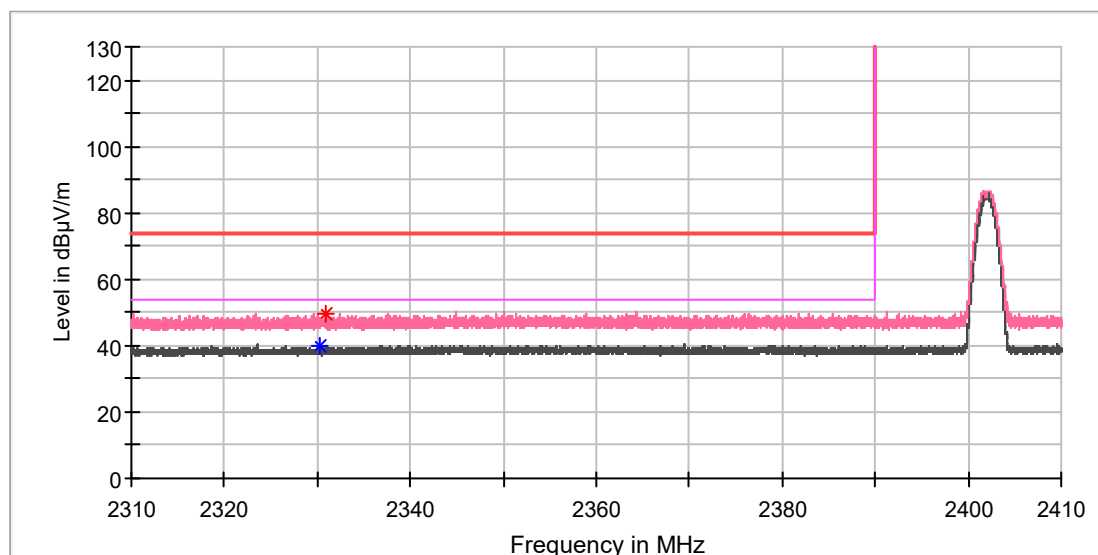
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2338.300000	---	42.93	54.00	11.07	100.0	H	347.0	6.8
2343.135000	51.74	---	74.00	22.26	100.0	H	87.0	6.8

Final_Result

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

EUT Information

EUT Name: Bluetooth Speaker
Model: M10
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168334216/A003183556-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

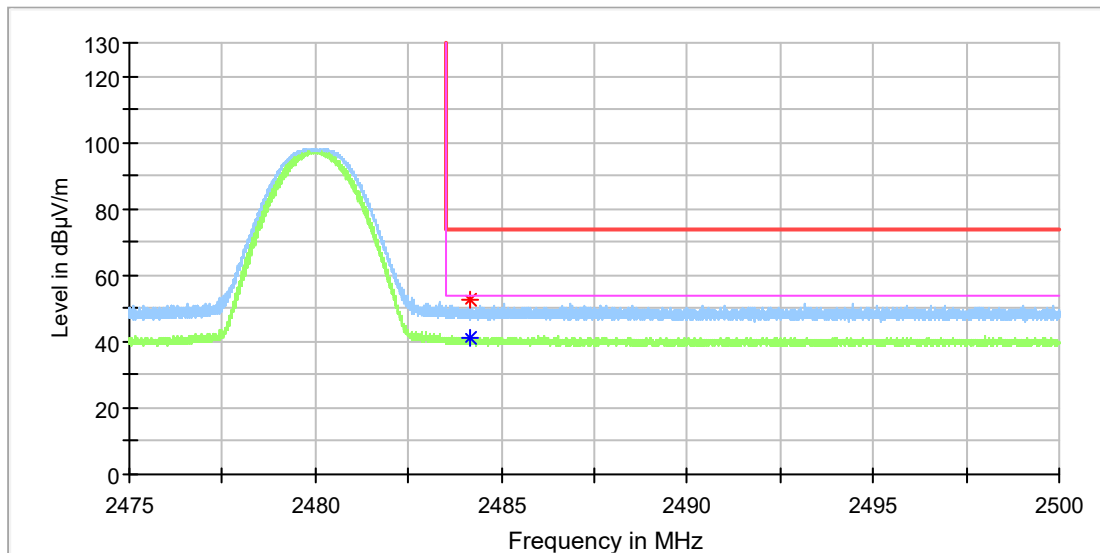
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2330.280000	---	39.87	54.00	14.13	100.0	V	0.0	6.7
2330.860000	49.61	---	74.00	24.39	100.0	V	168.0	6.7

Final Result

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168334216/A003183556-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

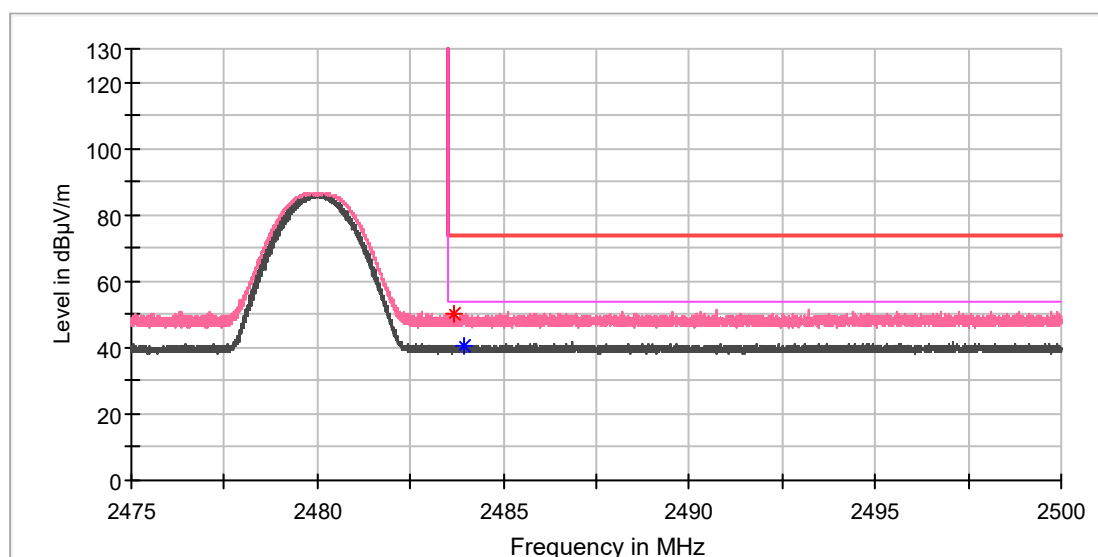
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.172500	---	41.19	54.00	12.81	100.0	H	98.0	7.4
2484.185000	52.72	---	74.00	21.28	100.0	H	0.0	7.4

Final Result

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

EUT Information

EUT Name:	Bluetooth Speaker
Model:	M10
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168334216/A003183556-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:58%
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)
2483.690000	50.31	---	74.00	23.69	100.0	V	1.0	7.4
2483.970000	---	40.53	54.00	13.47	100.0	V	52.0	7.4

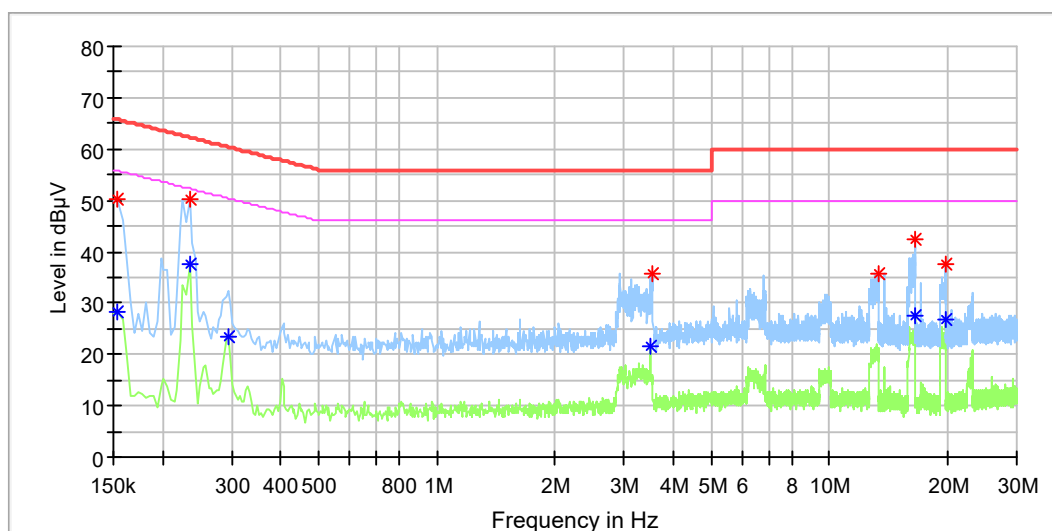
Final Result

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

Appendix C.7: Test Results of Conducted Emission

EUT Information

EUT Name: Bluetooth Speaker
Order No: 168334216
Model: M10
Test mode: BT
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2

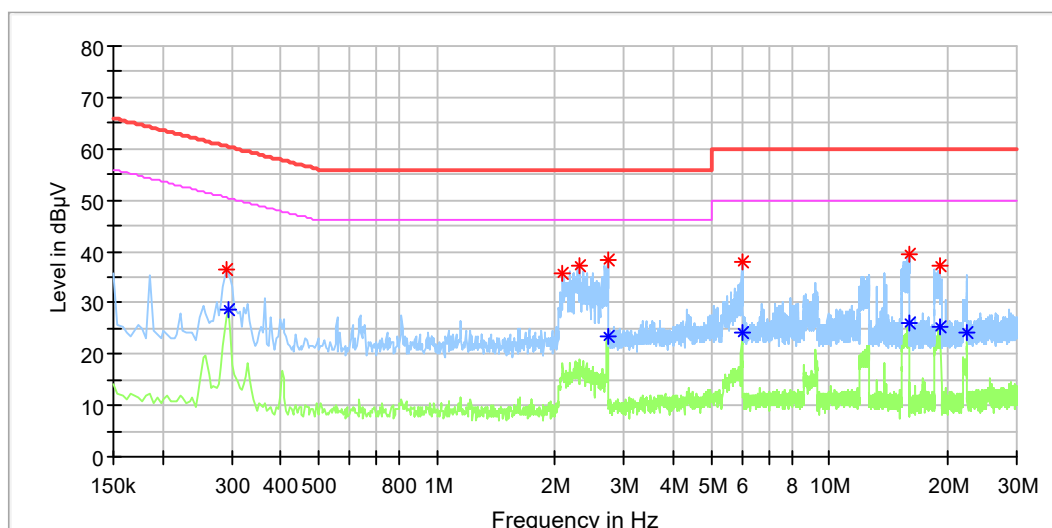


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	50.42	---	65.78	15.36	L1	9.9
0.154000	---	28.22	55.78	27.57	L1	9.9
0.234000	50.34	---	62.31	11.97	L1	9.9
0.234000	---	37.40	52.31	14.90	L1	9.9
0.294000	---	23.36	50.41	27.05	L1	9.9
3.506000	---	21.43	46.00	24.57	L1	10.2
3.550000	35.83	---	56.00	20.17	L1	10.2
13.318000	35.89	---	60.00	24.11	L1	10.4
16.518000	42.56	---	60.00	17.44	L1	10.4
16.538000	---	27.68	50.00	22.32	L1	10.4
19.818000	37.60	---	60.00	22.40	L1	10.4
19.850000	---	26.72	50.00	23.28	L1	10.4

EUT Information

EUT Name: Bluetooth Speaker
Order No: 168334216
Model: M10
Test mode: BT
Test Voltage: AC 120V/60Hz
Test By: Ouyang Wang
Review By: Gary Chen
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.290000	36.58	---	60.52	23.95	N	9.8
0.294000	---	28.52	50.41	21.89	N	9.8
2.094000	35.74	---	56.00	20.26	N	9.9
2.318000	37.15	---	56.00	18.85	N	9.9
2.718000	---	23.53	46.00	22.47	N	9.9
2.718000	38.25	---	56.00	17.75	N	9.9
5.974000	38.12	---	60.00	21.88	N	9.9
5.986000	---	24.12	50.00	25.88	N	9.9
15.906000	39.34	---	60.00	20.66	N	10.2
15.922000	---	25.94	50.00	24.06	N	10.2
19.178000	37.27	---	60.00	22.73	N	10.2
19.194000	---	25.23	50.00	24.77	N	10.2
22.458000	---	24.15	50.00	25.85	N	10.3