

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



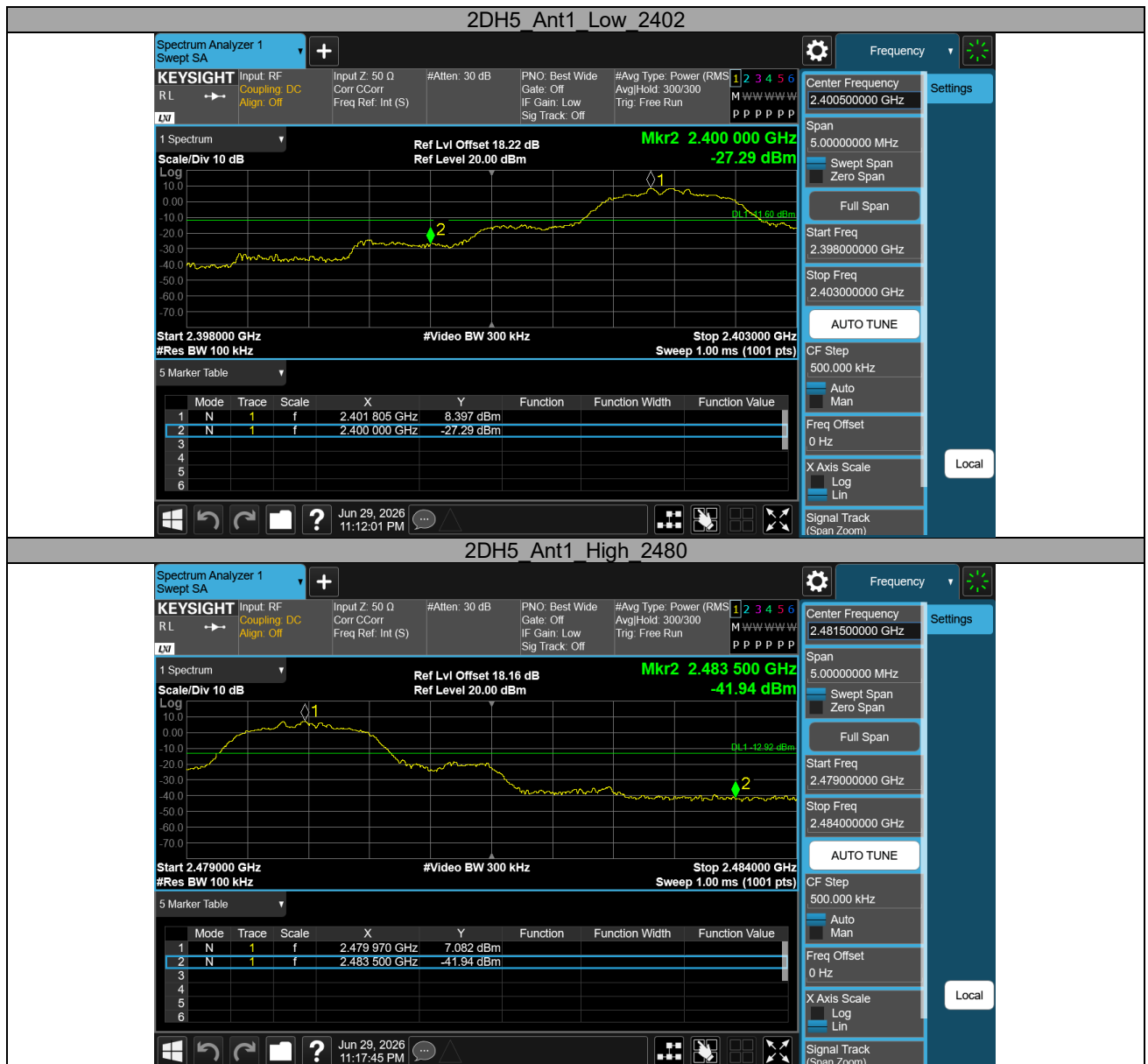
Appendix A.6: Test Results of Band Edge Measurements

Test Result

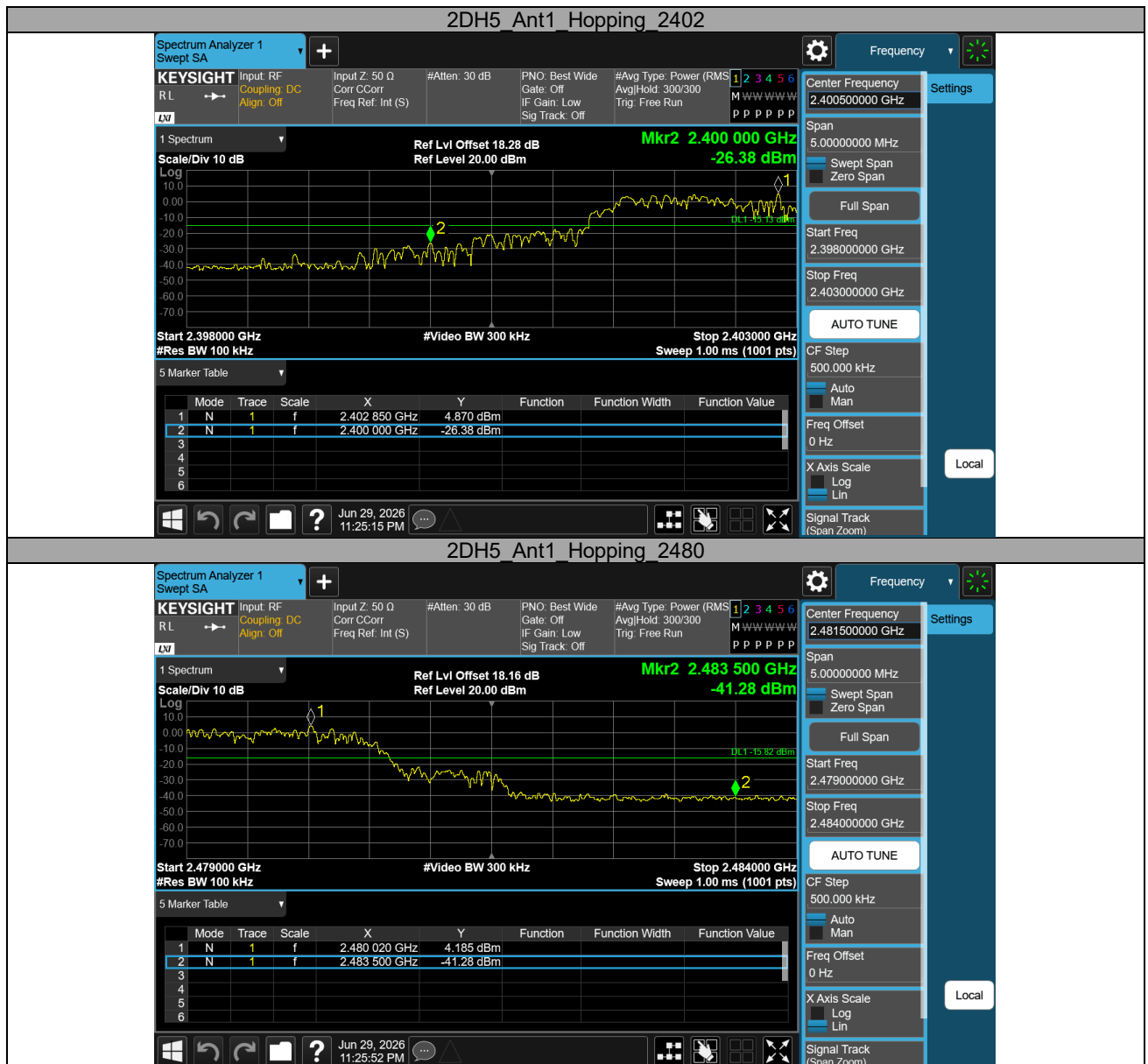
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.26	-40.95	≤-11.74	PASS
		High	2480	7.18	-42.93	≤-12.82	PASS
2DH5	Ant1	Low	2402	8.40	-27.29	≤-11.60	PASS
		High	2480	7.08	-41.94	≤-12.92	PASS
DH5	Ant1	Hopping	2402	7.64	-41.04	≤-12.36	PASS
		Hopping	2480	5.98	-43.00	≤-14.02	PASS
2DH5	Ant1	Hopping	2402	4.87	-26.38	≤-15.13	PASS
		Hopping	2480	4.18	-41.28	≤-15.82	PASS

Test Graphs







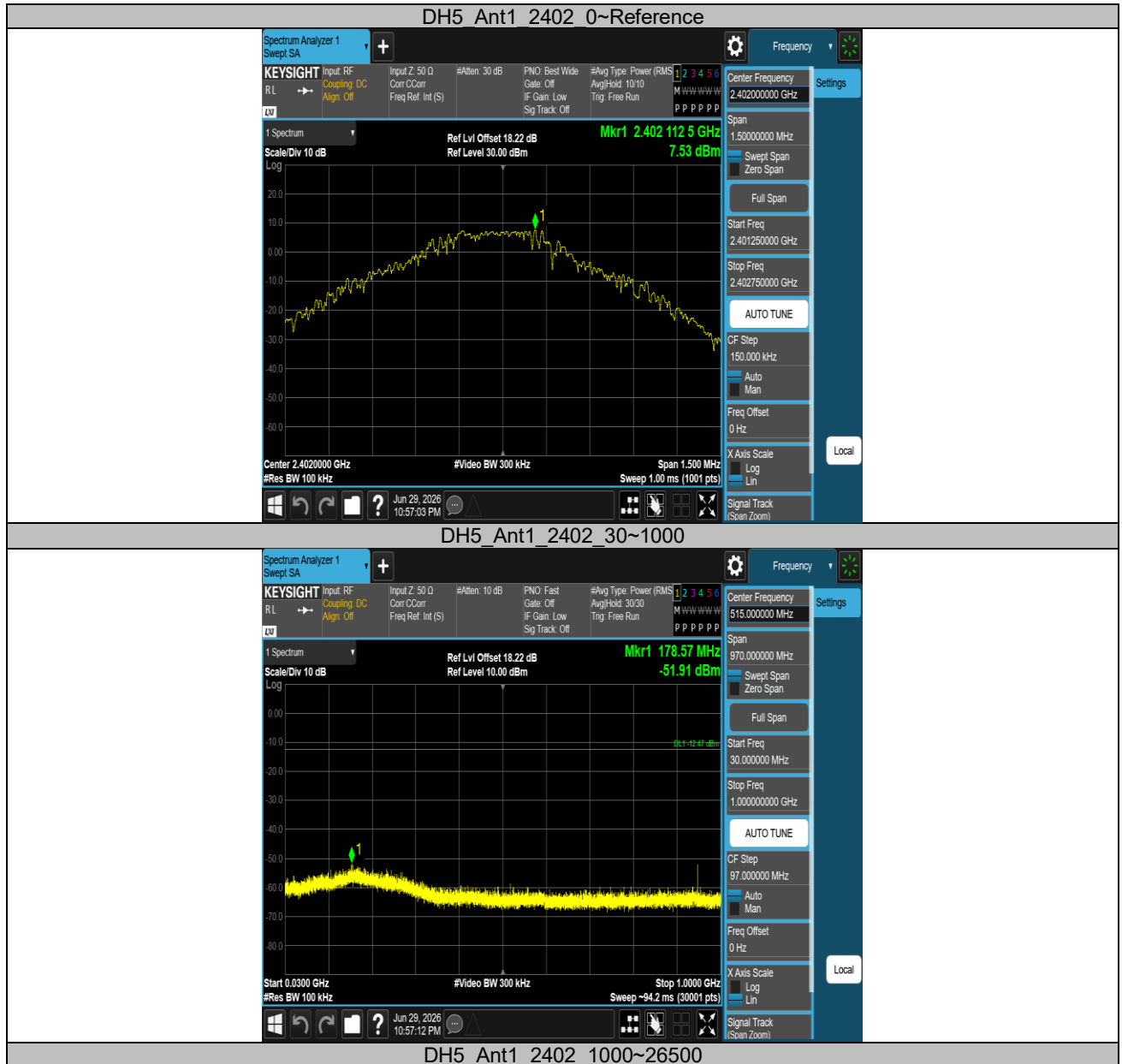


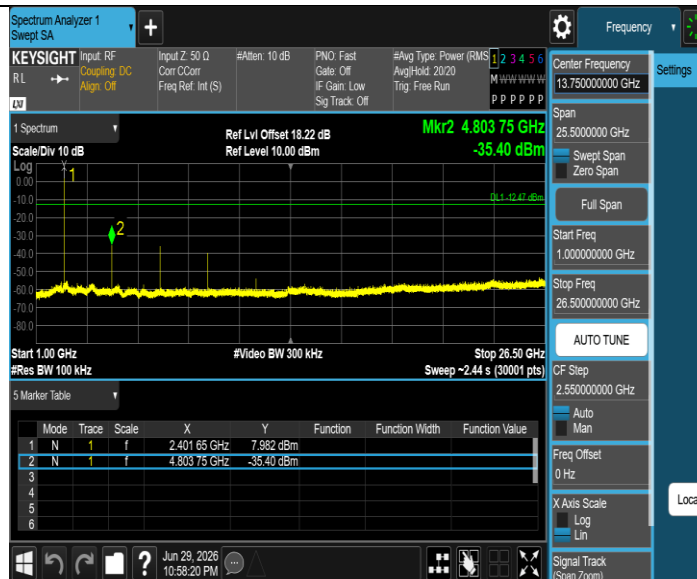
Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.53	7.53	---	PASS
			30~1000	7.53	-51.91	≤-12.47	PASS
			1000~26500	7.53	-35.4	≤-12.47	PASS
		2441	Reference	7.57	7.57	---	PASS
			30~1000	7.57	-52.04	≤-12.43	PASS
			1000~26500	7.57	-35.38	≤-12.43	PASS
		2480	Reference	6.84	6.84	---	PASS
			30~1000	6.84	-52.27	≤-13.16	PASS
			1000~26500	6.84	-36.38	≤-13.16	PASS
2DH5	Ant1	2402	Reference	7.40	7.40	---	PASS
			30~1000	7.40	-51.86	≤-12.6	PASS
			1000~26500	7.40	-34.64	≤-12.6	PASS
		2441	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-51.15	≤-15.55	PASS
			1000~26500	4.45	-37.72	≤-15.55	PASS
		2480	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-52.15	≤-13.08	PASS
			1000~26500	6.92	-37.08	≤-13.08	PASS

Test Graphs

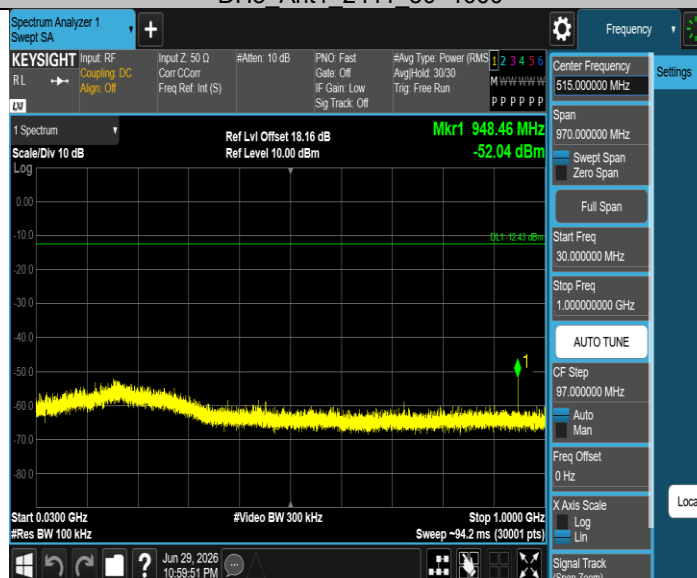




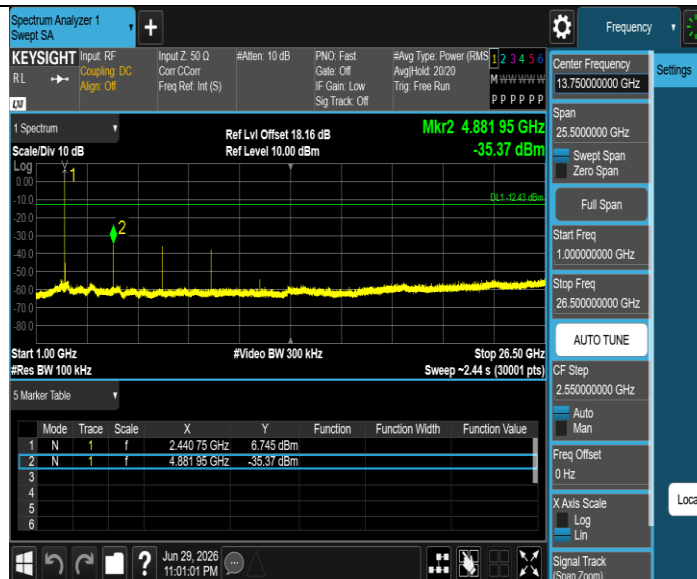
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



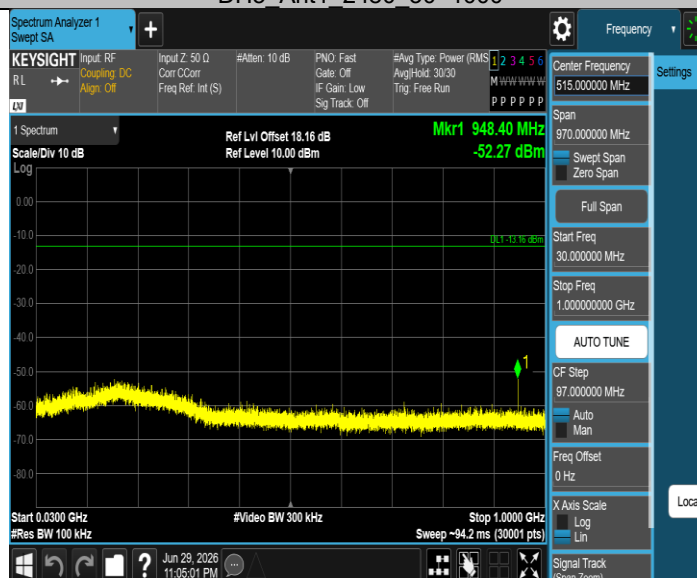
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



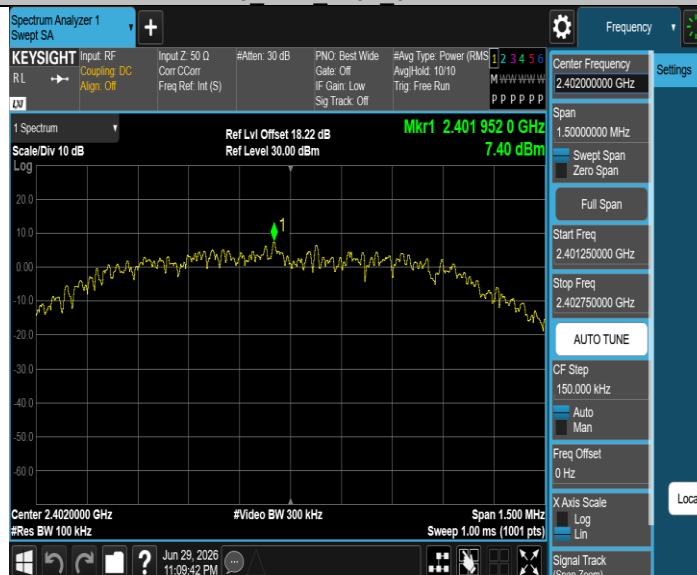
DH5_Ant1_2480_30~1000



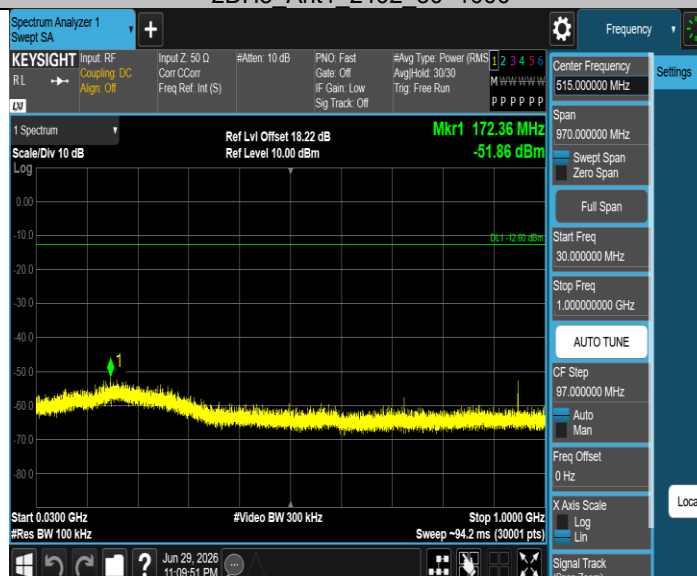
DH5_Ant1_2480_1000~26500



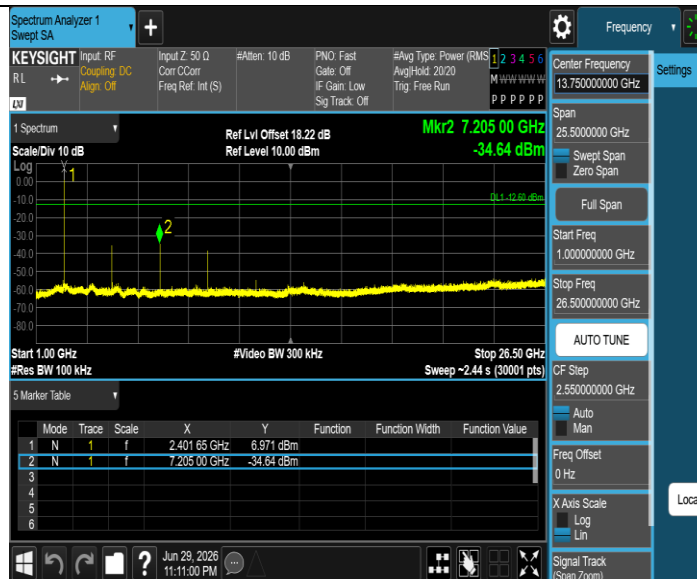
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



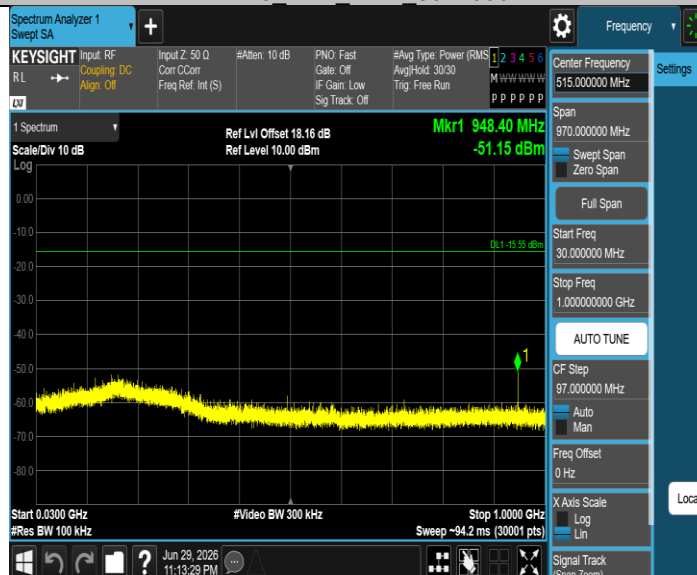
2DH5_Ant1_2402_1000~26500



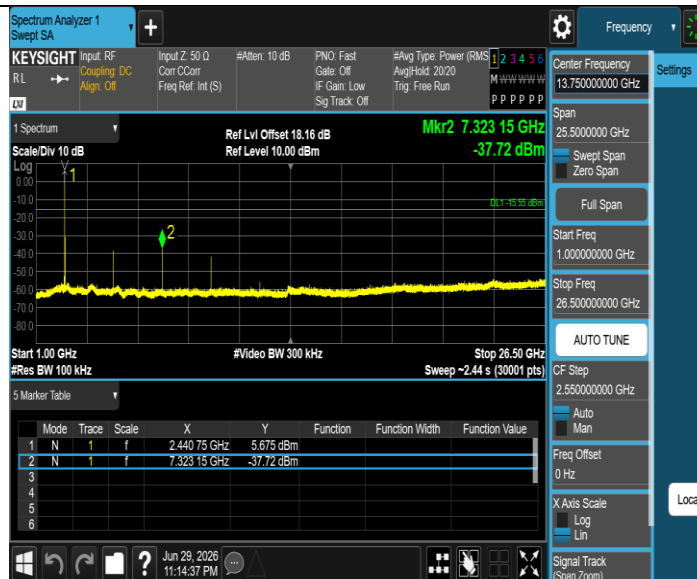
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



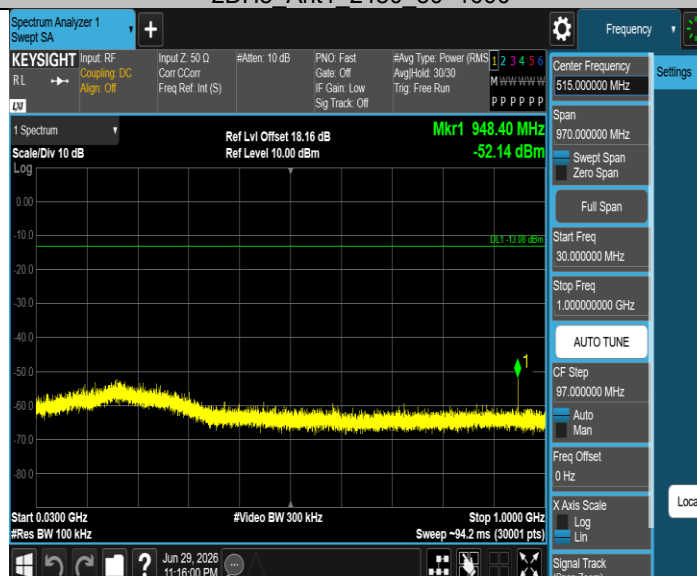
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix A.8: Test Results of Radiated Spurious Emissions

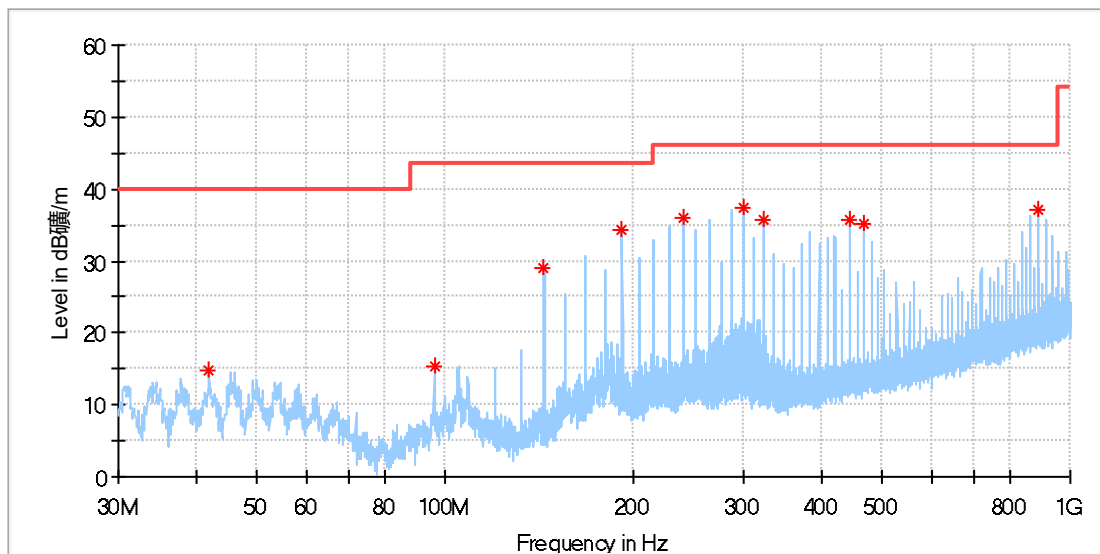
Note:

- 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.

below 1GHz

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004127313-002
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

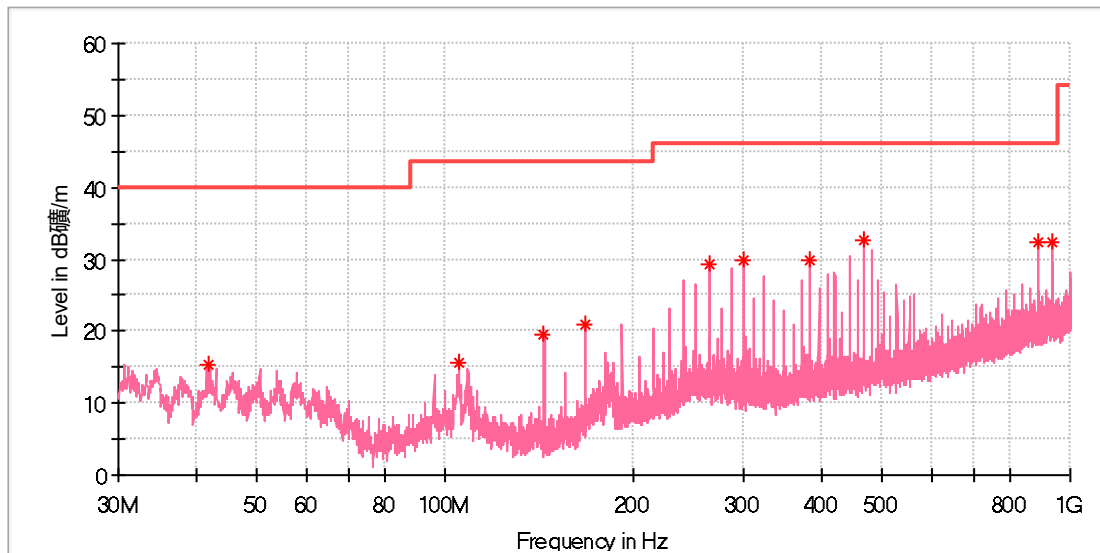
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.909444	14.78	40.00	25.22	100.0	H	198.0	-19.7
95.960000	15.44	43.50	28.06	100.0	H	161.0	-19.7
143.975000	28.92	43.50	14.58	100.0	H	161.0	-22.4
191.990000	34.22	43.50	9.28	100.0	H	356.0	-19.5
240.005000	36.01	46.00	9.99	100.0	H	348.0	-17.7
299.983333	37.49	46.00	8.51	100.0	H	130.0	-16.3
324.017778	35.70	46.00	10.30	100.0	H	130.0	-15.5
444.028333	35.70	46.00	10.30	100.0	H	31.0	-12.9
468.008889	35.08	46.00	10.92	100.0	H	22.0	-12.4
888.018889	37.03	46.00	8.97	100.0	H	198.0	-4.9

Final_Result

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

EUT Information

EUT Name: TWS EARBUDS
Model: EBT1-21044
Test Mode: BR DH5_Mid channel
Order No/Sample No: A004127313-002
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)
41.963333	15.22	40.00	24.78	100.0	V	310.0	-19.7
105.282778	15.51	43.50	27.99	100.0	V	146.0	-18.9
143.975000	19.61	43.50	23.89	100.0	V	290.0	-22.4
168.009444	20.96	43.50	22.54	100.0	V	304.0	-21.4
263.985556	29.19	46.00	16.81	100.0	V	6.0	-17.1
299.983333	29.76	46.00	16.24	100.0	V	45.0	-16.3
383.996111	29.91	46.00	16.09	100.0	V	37.0	-14.1
468.008889	32.77	46.00	13.23	100.0	V	67.0	-12.4
890.982778	32.35	46.00	13.65	100.0	V	304.0	-4.9
937.542778	32.47	46.00	13.53	100.0	V	37.0	-4.4

Final Result

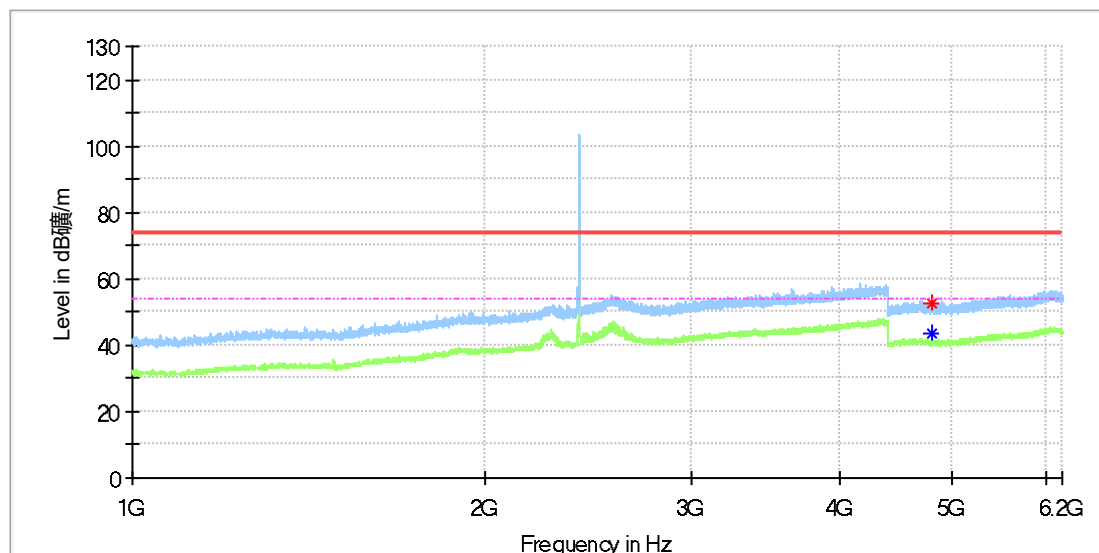
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

above 1GHz

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004127313-002
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

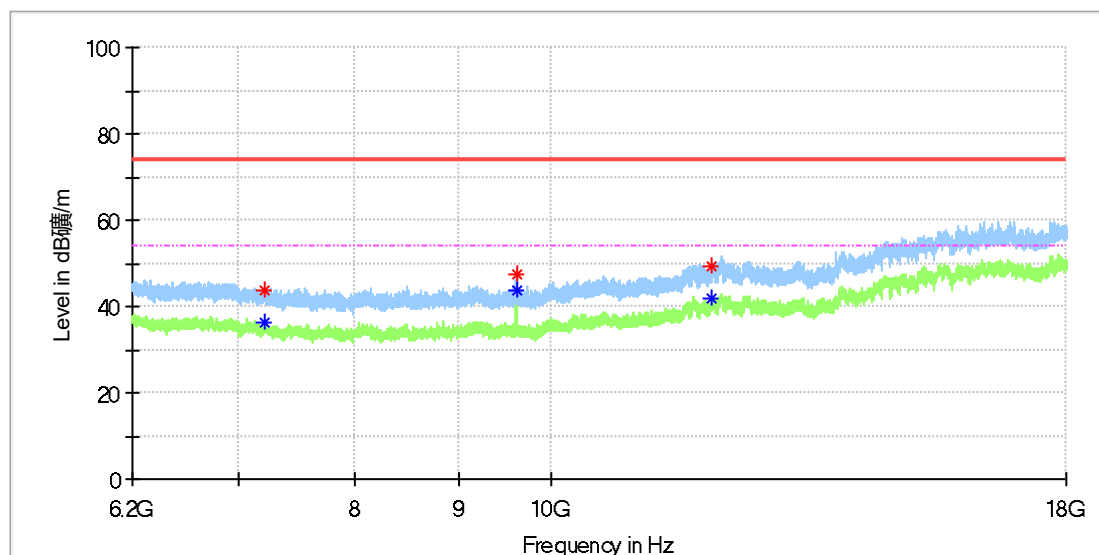
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	43.53	54.00	10.47	150.0	H	269.0	13.3
4803.500000	52.78	---	74.00	21.22	150.0	H	269.0	13.3

Final Result

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

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

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	36.44	54.00	17.56	150.0	H	180.0	8.8
7205.950000	43.91	---	74.00	30.09	150.0	H	180.0	8.8
9607.741667	---	43.91	54.00	10.09	150.0	H	312.0	10.4
9608.233333	47.62	---	74.00	26.38	150.0	H	201.0	10.4
12008.058333	49.08	---	74.00	24.92	150.0	H	158.0	15.4
12020.350000	---	41.93	54.00	12.07	150.0	H	135.0	15.7

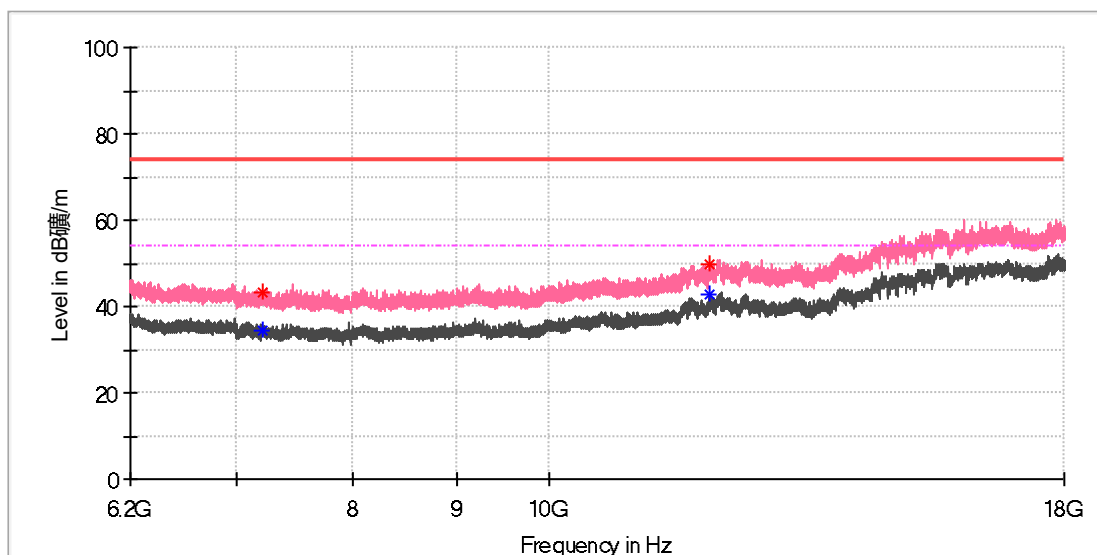
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	

Prüfbericht - Produkte

Test Report - Products

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



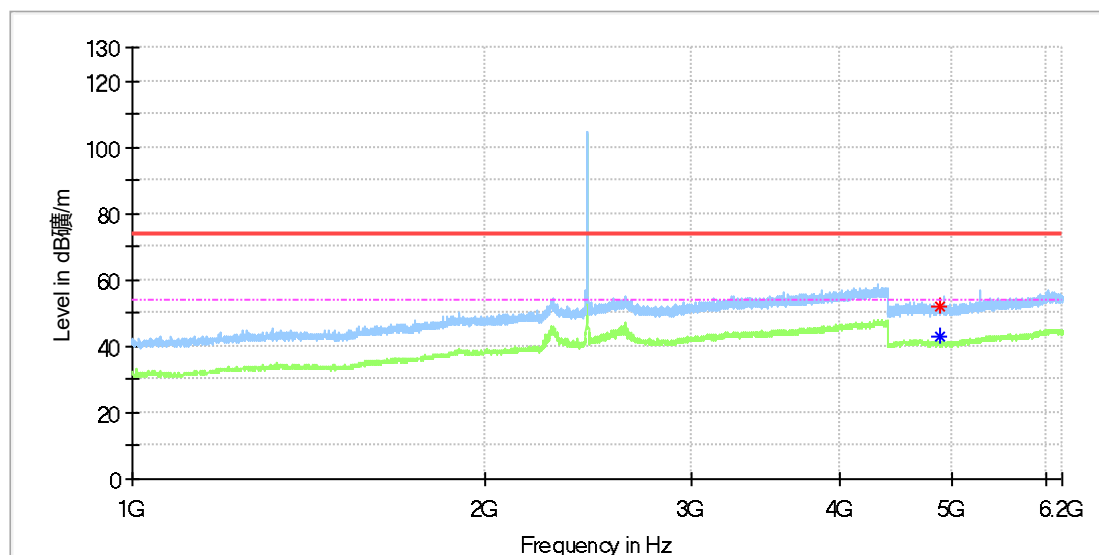
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	43.37	---	74.00	30.63	150.0	V	269.0	8.8
7205.950000	---	34.55	54.00	19.45	150.0	V	122.0	8.8
12010.025000	---	42.58	54.00	11.42	150.0	V	302.0	15.5
12017.891667	49.95	---	74.00	24.05	150.0	V	177.0	15.7

Final Result

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

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

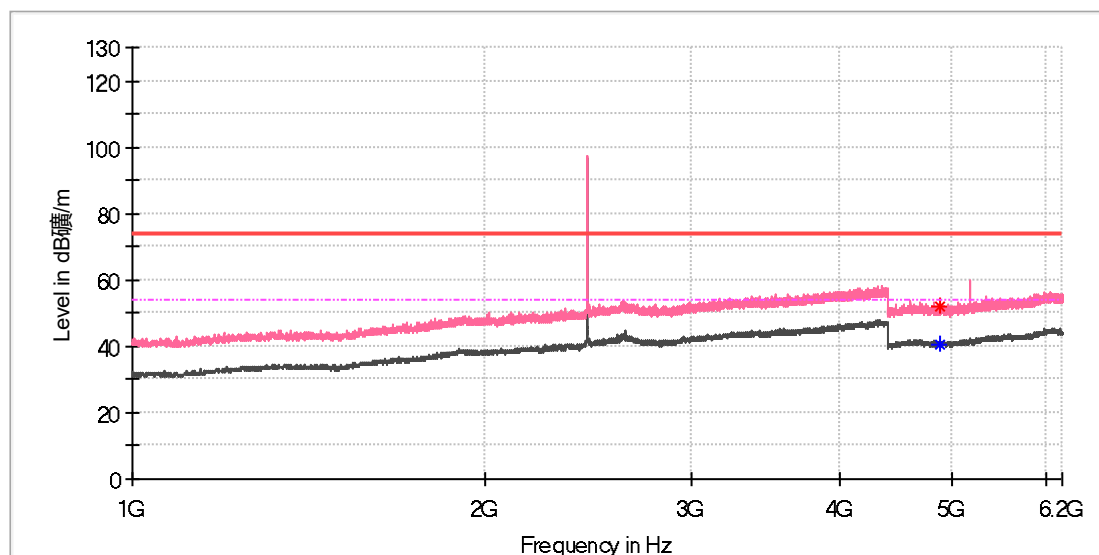


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	43.17	54.00	10.83	150.0	H	6.0	13.3
4882.000000	51.72	---	74.00	22.28	150.0	H	6.0	13.3

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:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004127313-002
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

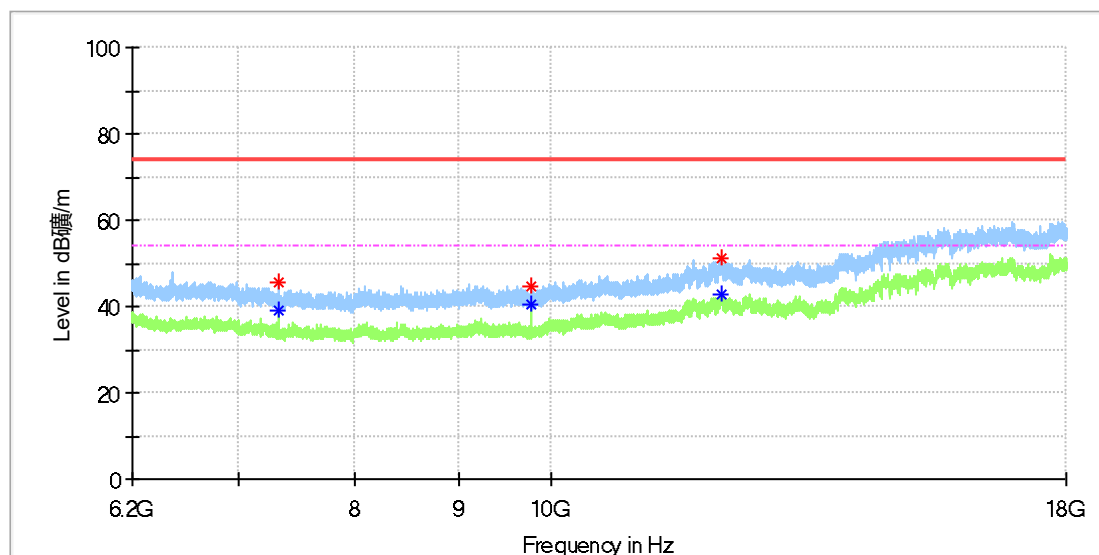
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4886.000000	---	40.34	54.00	13.66	150.0	V	94.0	13.3
4886.500000	51.90	---	74.00	22.10	150.0	V	218.0	13.3

Final Result

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004127313-002
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

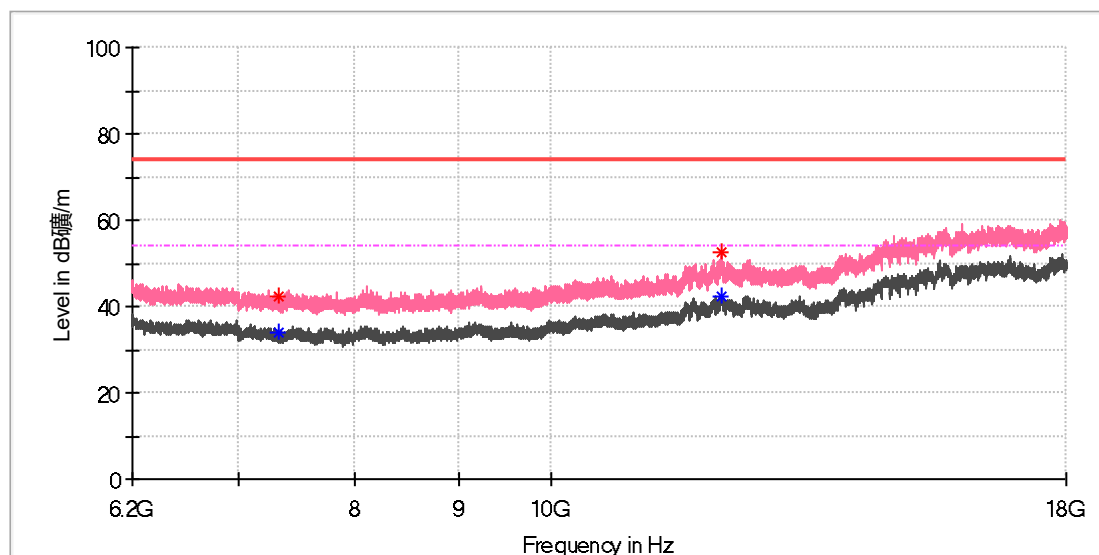
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7321.983333	45.50	---	74.00	28.50	150.0	H	148.0	8.2
7322.966667	---	38.91	54.00	15.09	150.0	H	158.0	8.2
9763.600000	---	40.26	54.00	13.74	150.0	H	0.0	10.4
9764.091667	44.80	---	74.00	29.20	150.0	H	315.0	10.4
12141.791667	50.96	---	74.00	23.04	150.0	H	12.0	16.5
12147.691667	---	42.91	54.00	11.09	150.0	H	22.0	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)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



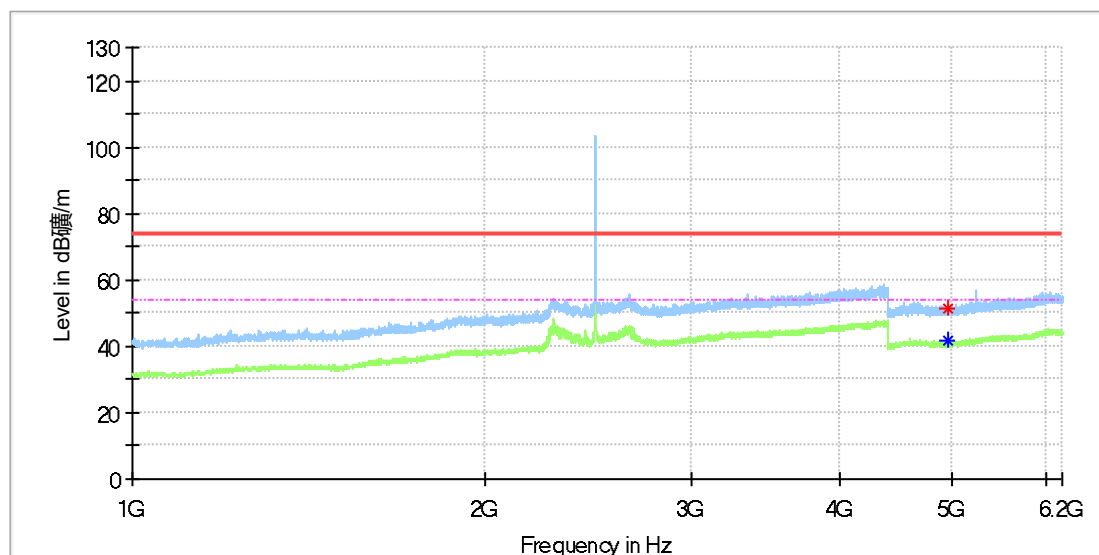
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7325.425000	42.34	---	74.00	31.66	150.0	V	229.0	8.2
7327.883333	---	34.17	54.00	19.83	150.0	V	229.0	8.1
12140.316667	52.67	---	74.00	21.33	150.0	V	163.0	16.5
12148.675000	---	42.46	54.00	11.54	150.0	V	173.0	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)
---	---	---	---	---	---		---	---

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

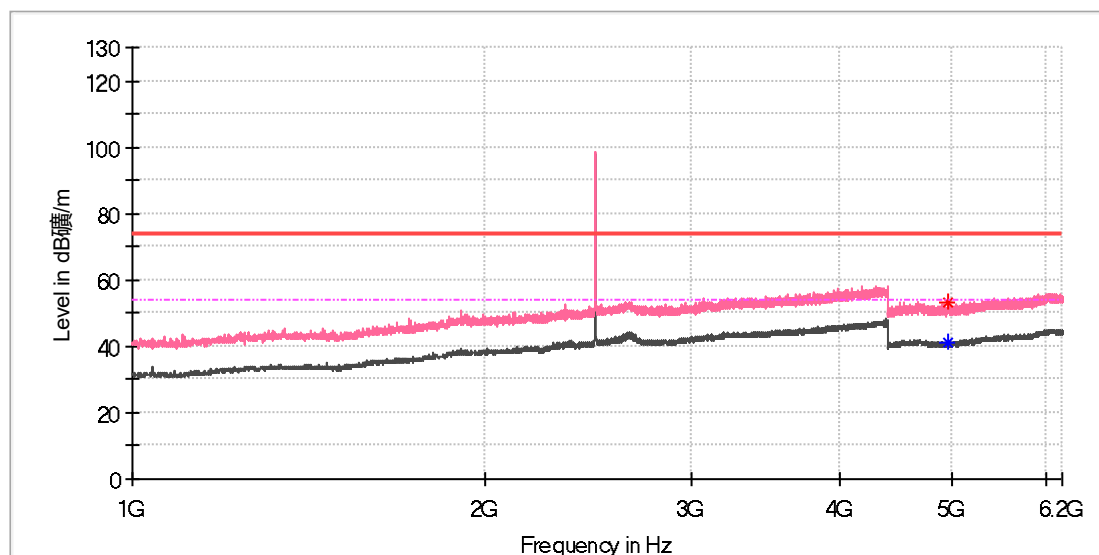


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	51.54	---	74.00	22.46	150.0	H	138.0	13.3
4960.000000	---	41.79	54.00	12.21	150.0	H	156.0	13.3

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
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

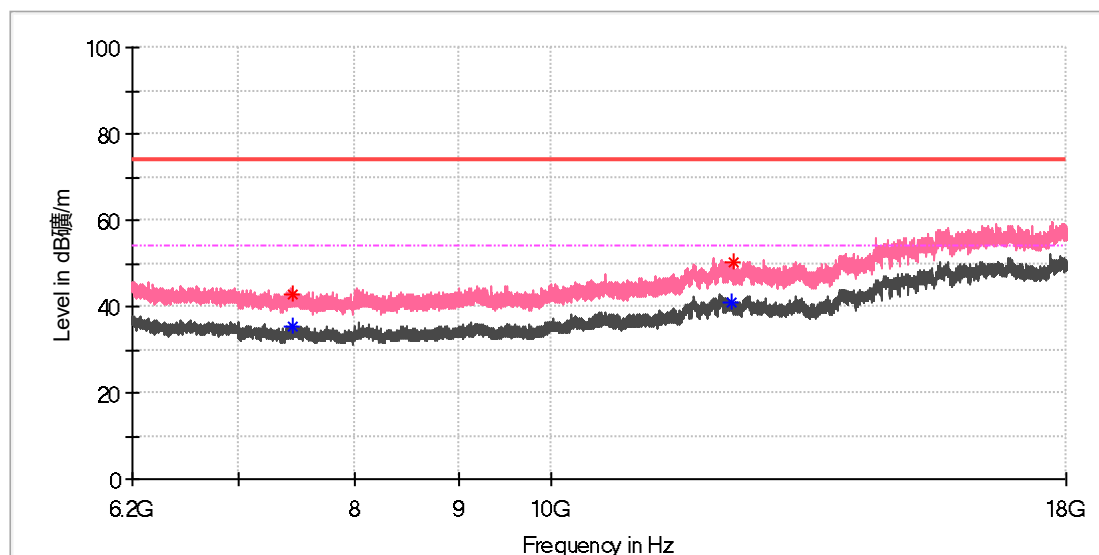
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	---	41.21	54.00	12.79	150.0	V	253.0	13.3
4964.000000	53.02	---	74.00	20.98	150.0	V	55.0	13.3

Final Result

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



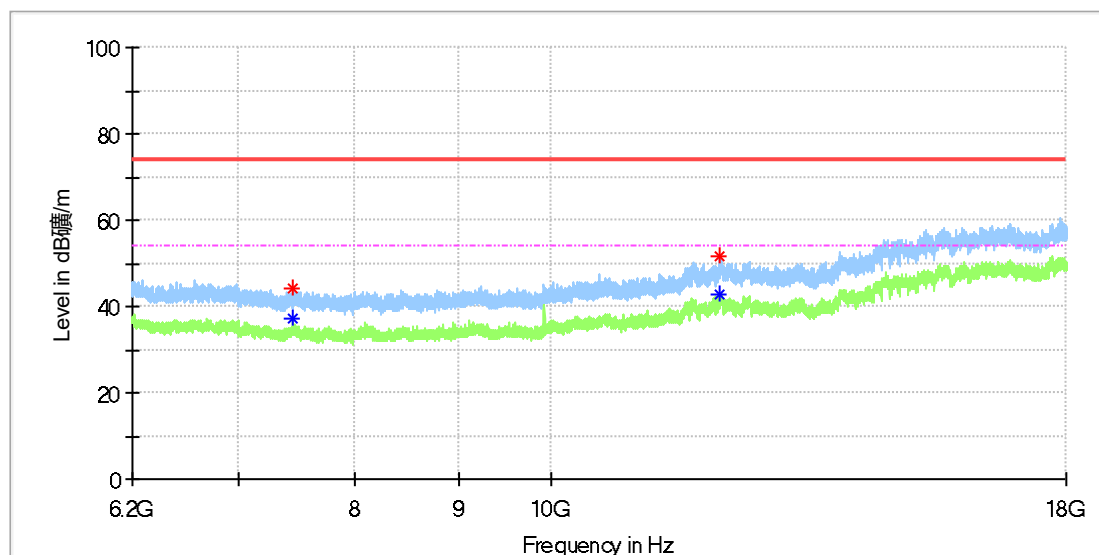
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.016667	42.66	---	74.00	31.34	150.0	V	285.0	8.4
7442.933333	---	35.23	54.00	18.77	150.0	V	231.0	8.5
12291.750000	---	41.10	54.00	12.90	150.0	V	329.0	16.0
12301.583333	50.00	---	74.00	24.00	150.0	V	93.0	15.8

Final Result

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

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

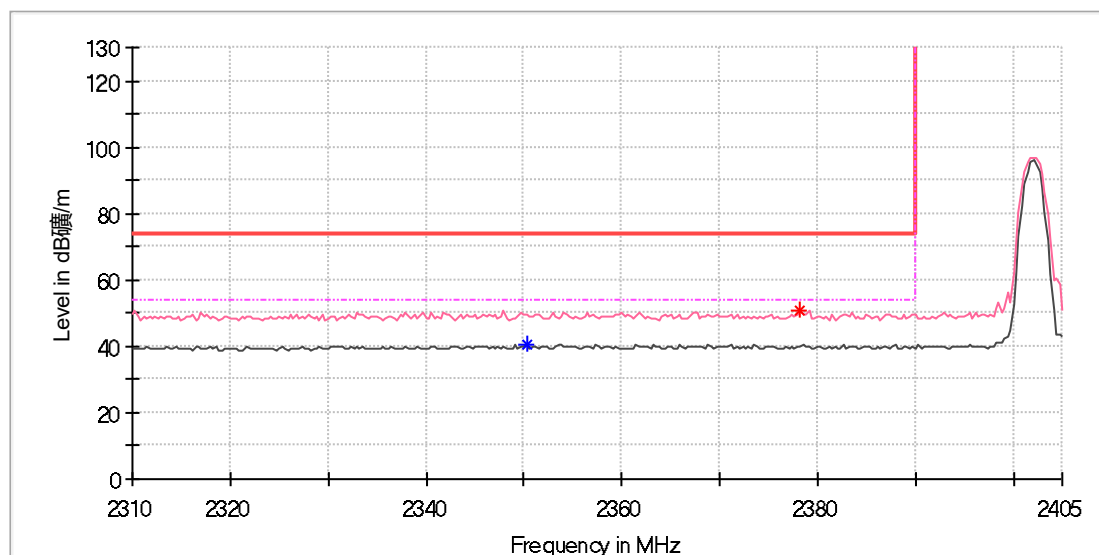


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	44.25	---	74.00	29.75	150.0	H	329.0	8.4
7439.983333	---	37.08	54.00	16.92	150.0	H	329.0	8.4
12129.991667	---	42.84	54.00	11.16	150.0	H	300.0	16.2
12130.975000	51.48	---	74.00	22.52	150.0	H	132.0	16.2

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:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004127313-002
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

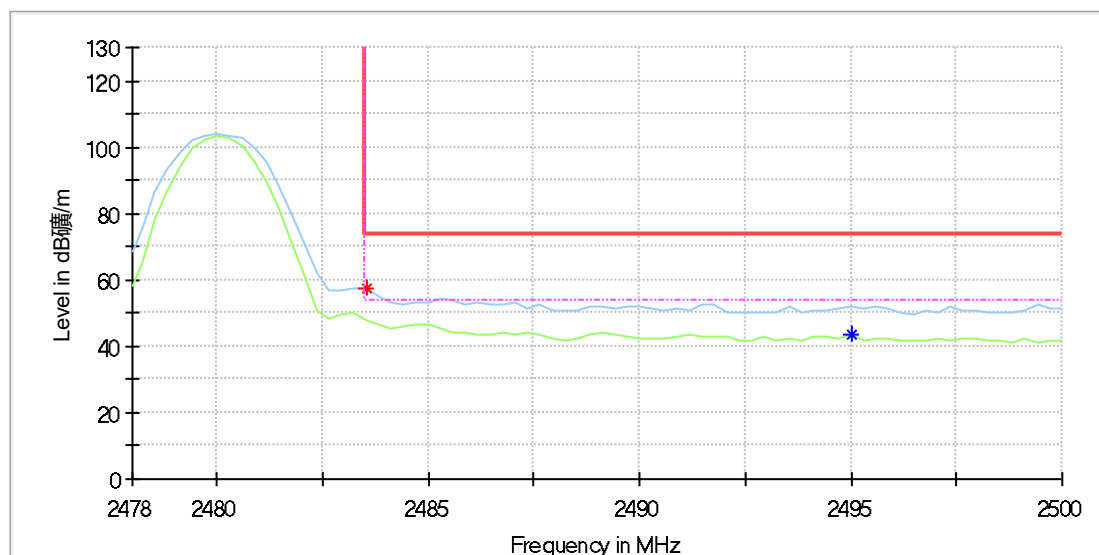
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2350.294118	---	40.31	54.00	13.69	150.0	V	165.0	8.5
2378.235294	50.84	---	74.00	23.16	150.0	V	309.0	8.5

Final Result

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
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

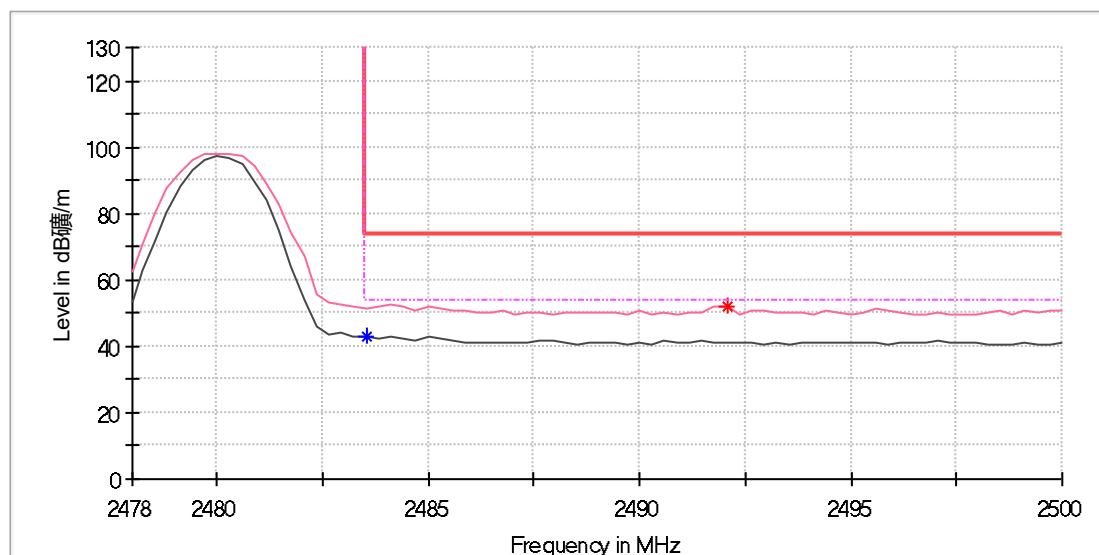
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	57.44	---	74.00	16.56	150.0	H	300.0	9.0
2495.000000	---	43.31	54.00	10.69	150.0	H	306.0	9.0

Final Result

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

EUT Information

EUT Name:	TWS EARBUDS
Model:	EBT1-21044
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004127313-002
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)
2483.529412	---	43.13	54.00	10.87	150.0	V	236.0	9.0
2492.058824	52.08	---	74.00	21.92	150.0	V	19.0	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)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	