

Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.538	2402.471	---	PASS
		2441	0.984	2440.487	2441.471	---	PASS
		2480	1.023	2479.484	2480.507	---	PASS
3DH5	Ant1	2402	1.206	2401.373	2402.579	---	PASS
		2441	1.275	2440.346	2441.621	---	PASS
		2480	1.275	2479.343	2480.618	---	PASS

Test Graphs





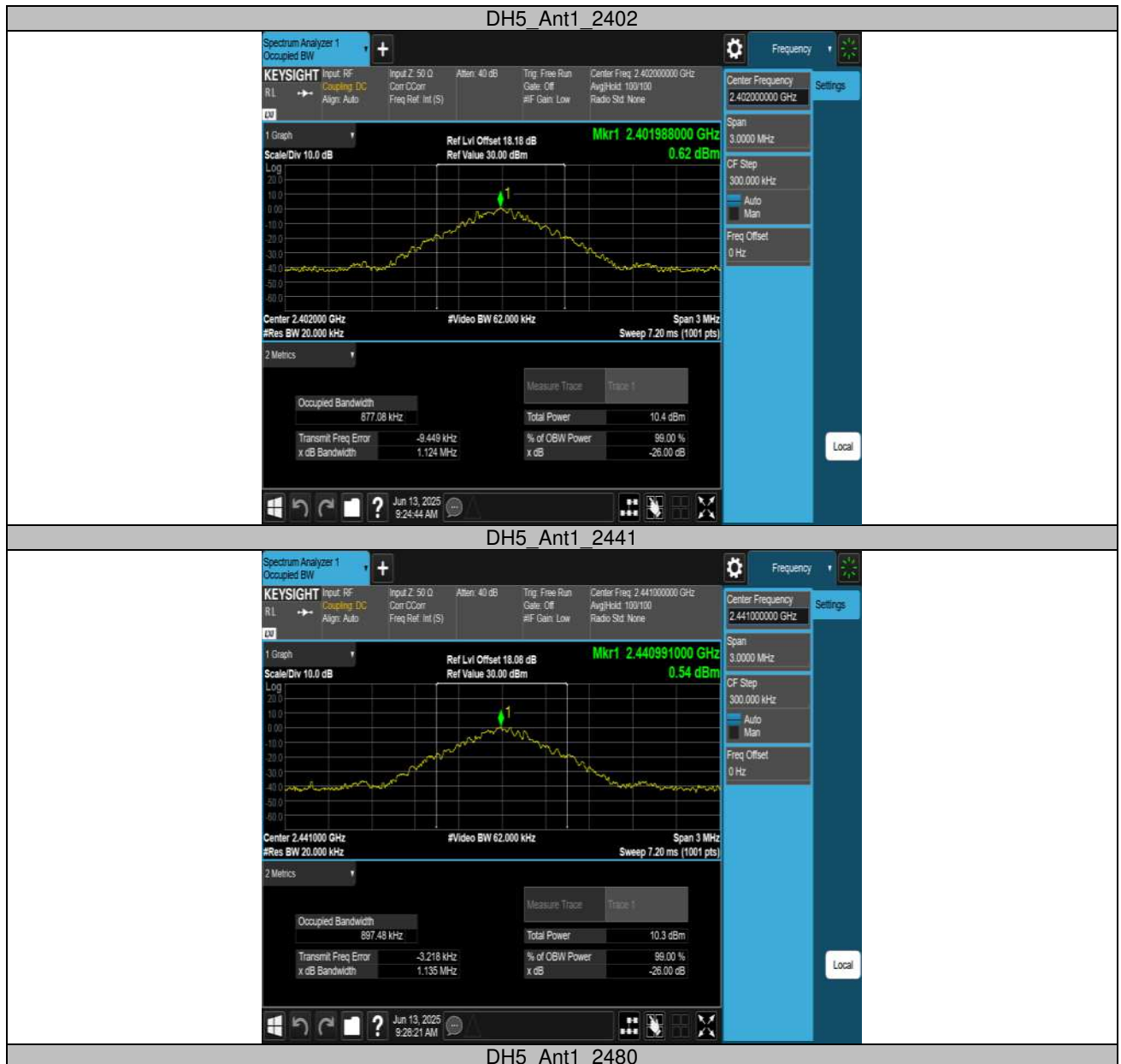


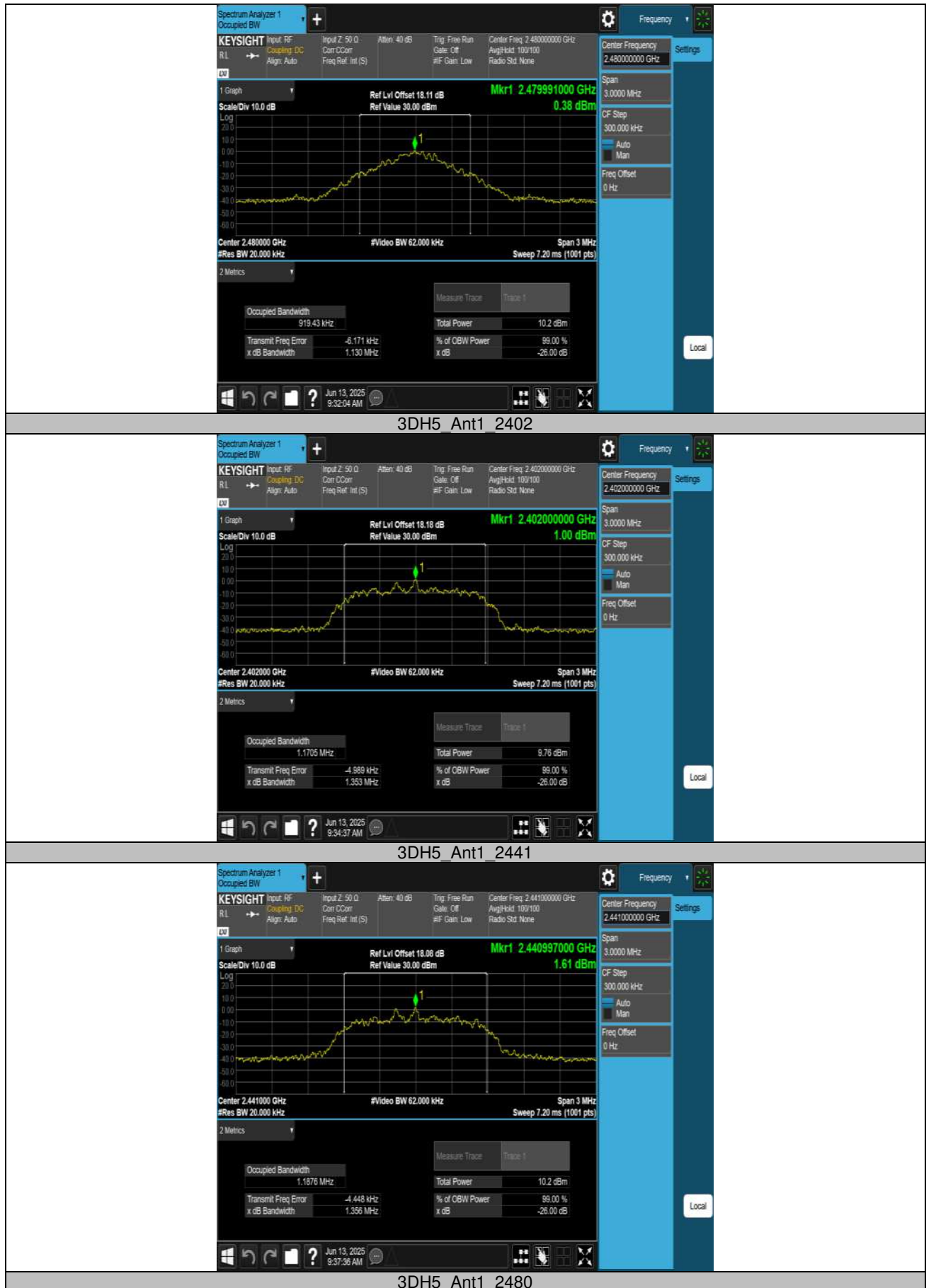
Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87708	2401.5520	2402.4291	---	PASS
		2441	0.89748	2440.5480	2441.4455	---	PASS
		2480	0.91943	2479.5341	2480.4535	---	PASS
3DH5	Ant1	2402	1.1705	2401.4098	2402.5803	---	PASS
		2441	1.1876	2440.4018	2441.5894	---	PASS
		2480	1.1755	2479.4025	2480.5780	---	PASS

Test Graphs







Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.916	≥ 0.682	PASS
3DH5	Ant1	Hop	0.95	≥ 0.850	PASS

Test Graphs

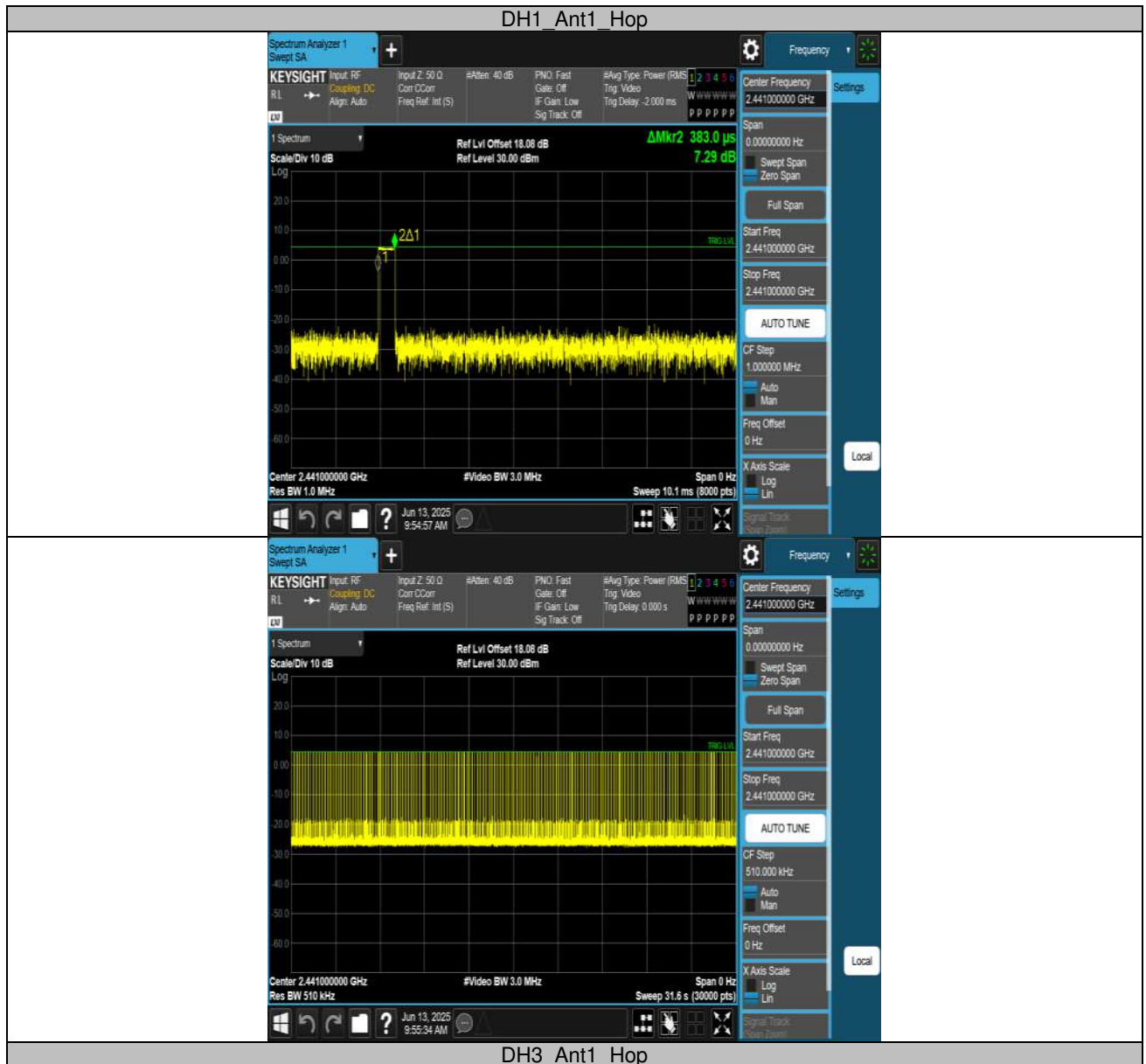


Appendix A.4: Test Results of Time of Occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	319	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.638	157	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.887	109	0.315	≤0.4	PASS
3DH1	Ant1	Hop	6.666	49	0.327	≤0.4	PASS
3DH3	Ant1	Hop	0.650	166	0.108	≤0.4	PASS
3DH5	Ant1	Hop	0.894	106	0.095	≤0.4	PASS

Test Graphs



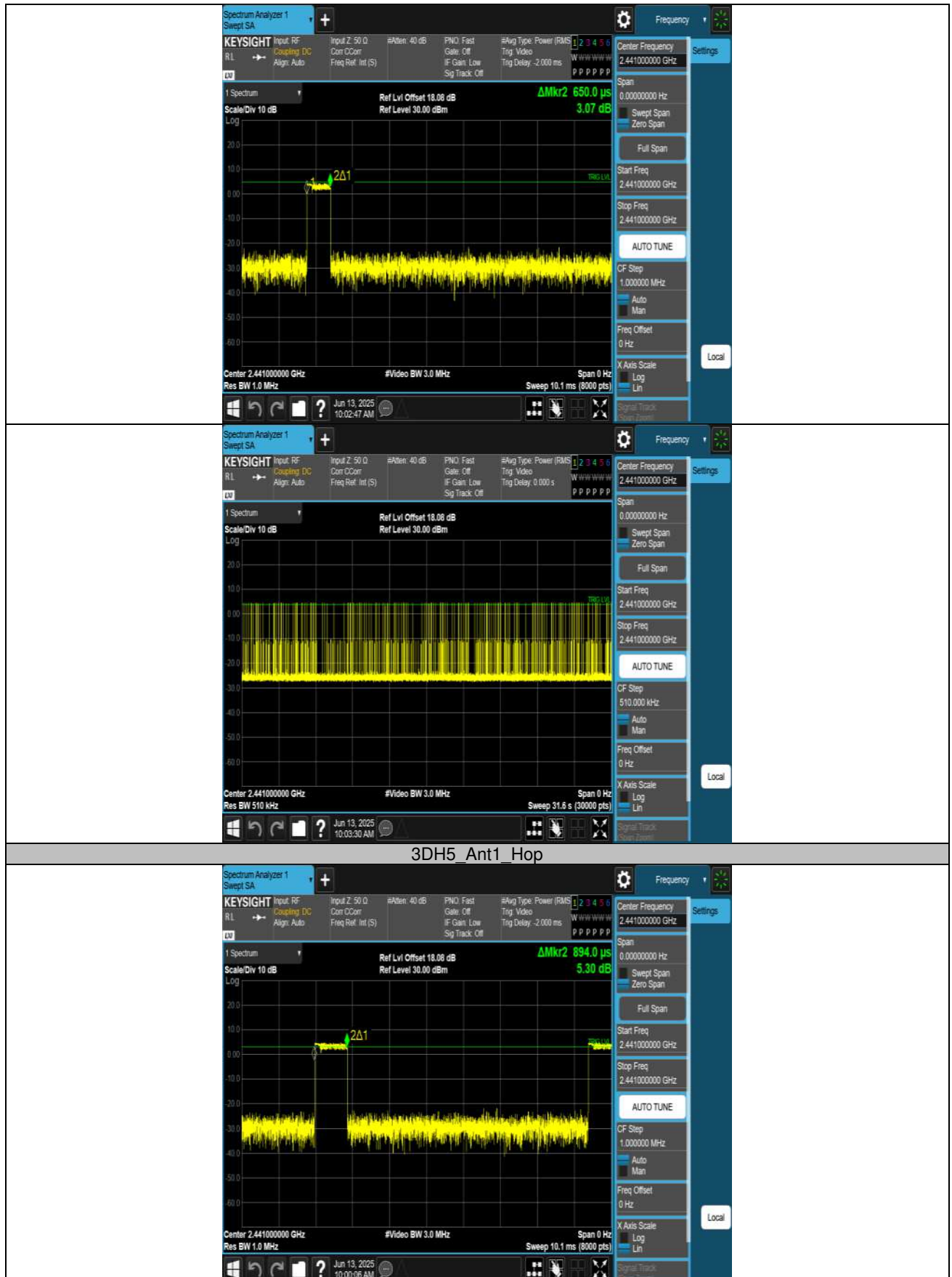




3DH1 Ant1 Hop



3DH3 Ant1 Hop





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

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



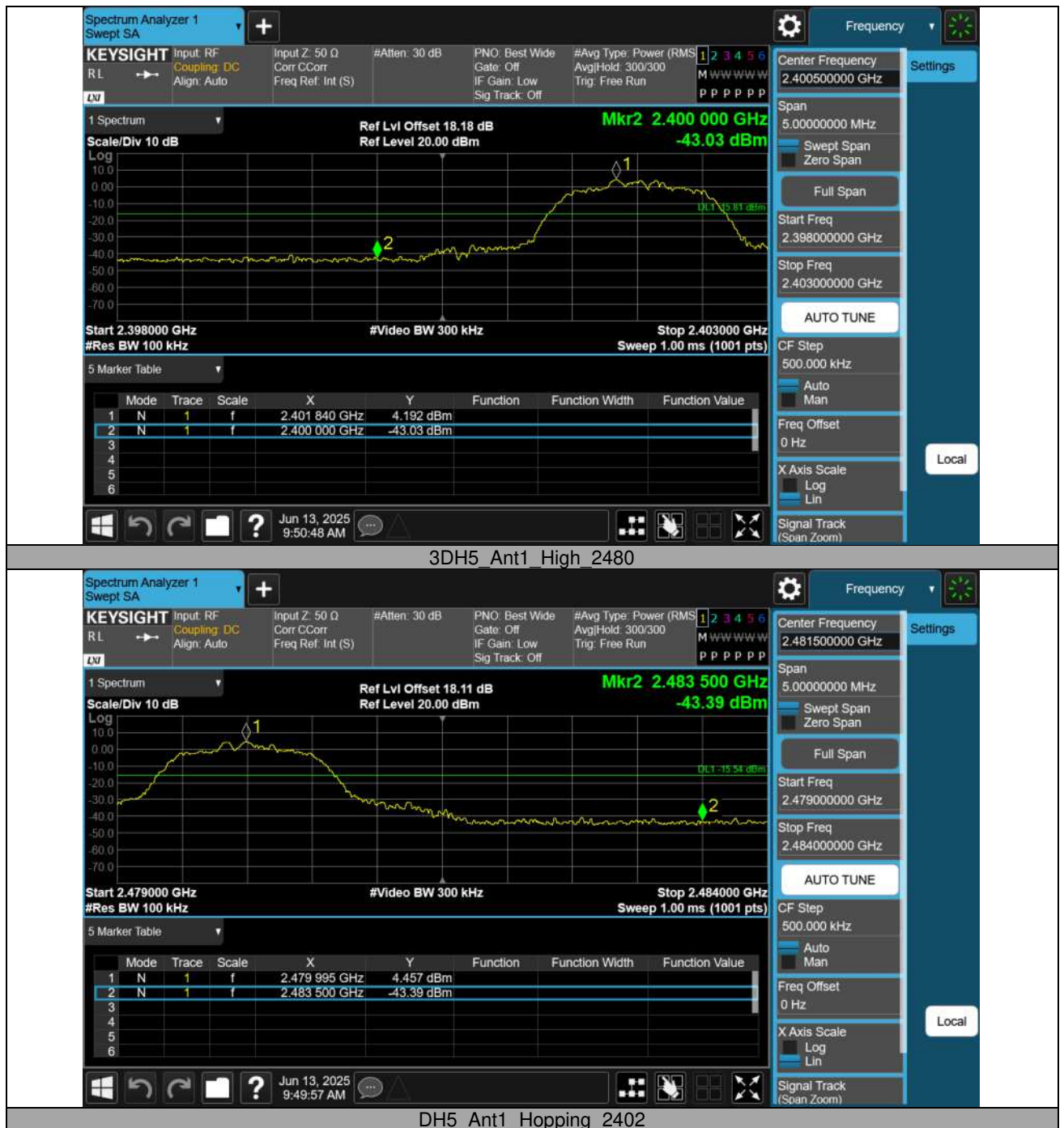
Appendix A.6: Test Results of Band Edge Measurements

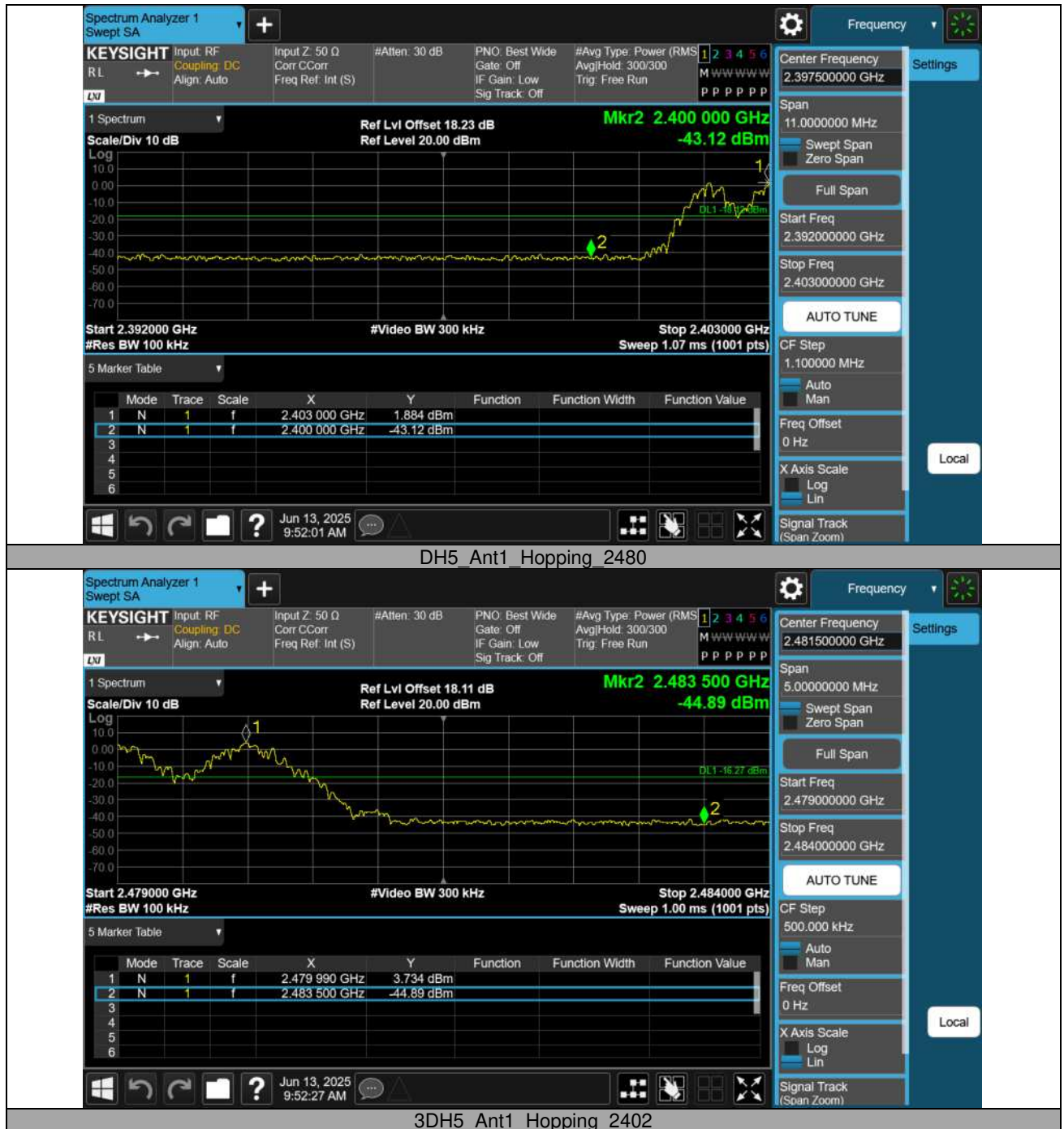
Test Result

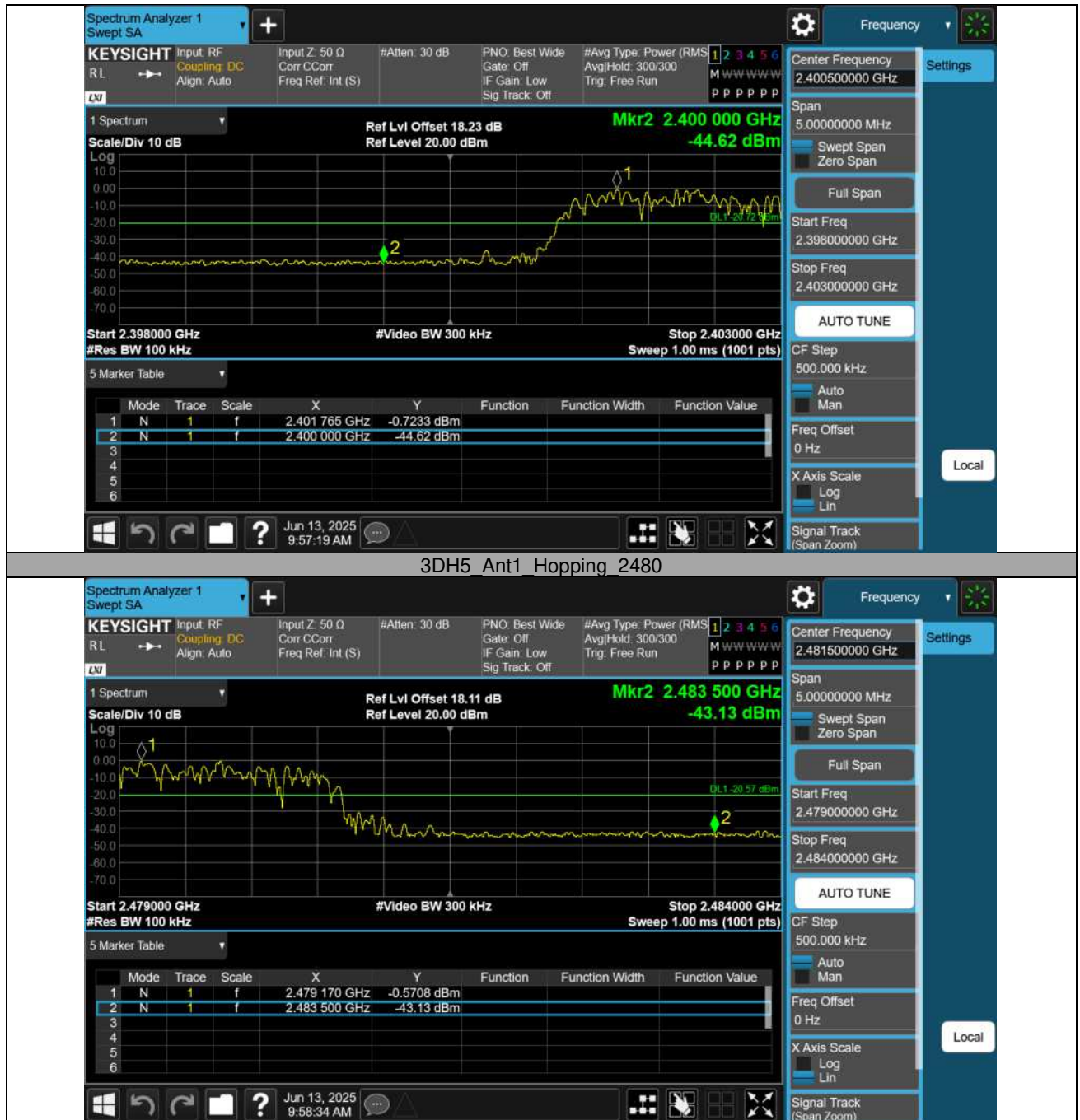
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.18	-42.94	≤-15.82	PASS
		High	2480	4.02	-43.21	≤-15.98	PASS
3DH5	Ant1	Low	2402	4.19	-43.03	≤-15.81	PASS
		High	2480	4.46	-43.39	≤-15.54	PASS
DH5	Ant1	Hopping	2402	1.88	-43.12	≤-18.12	PASS
		Hopping	2480	3.73	-44.89	≤-16.27	PASS
3DH5	Ant1	Hopping	2402	-0.72	-44.62	≤-20.72	PASS
		Hopping	2480	-0.57	-43.13	≤-20.57	PASS

Test Graphs







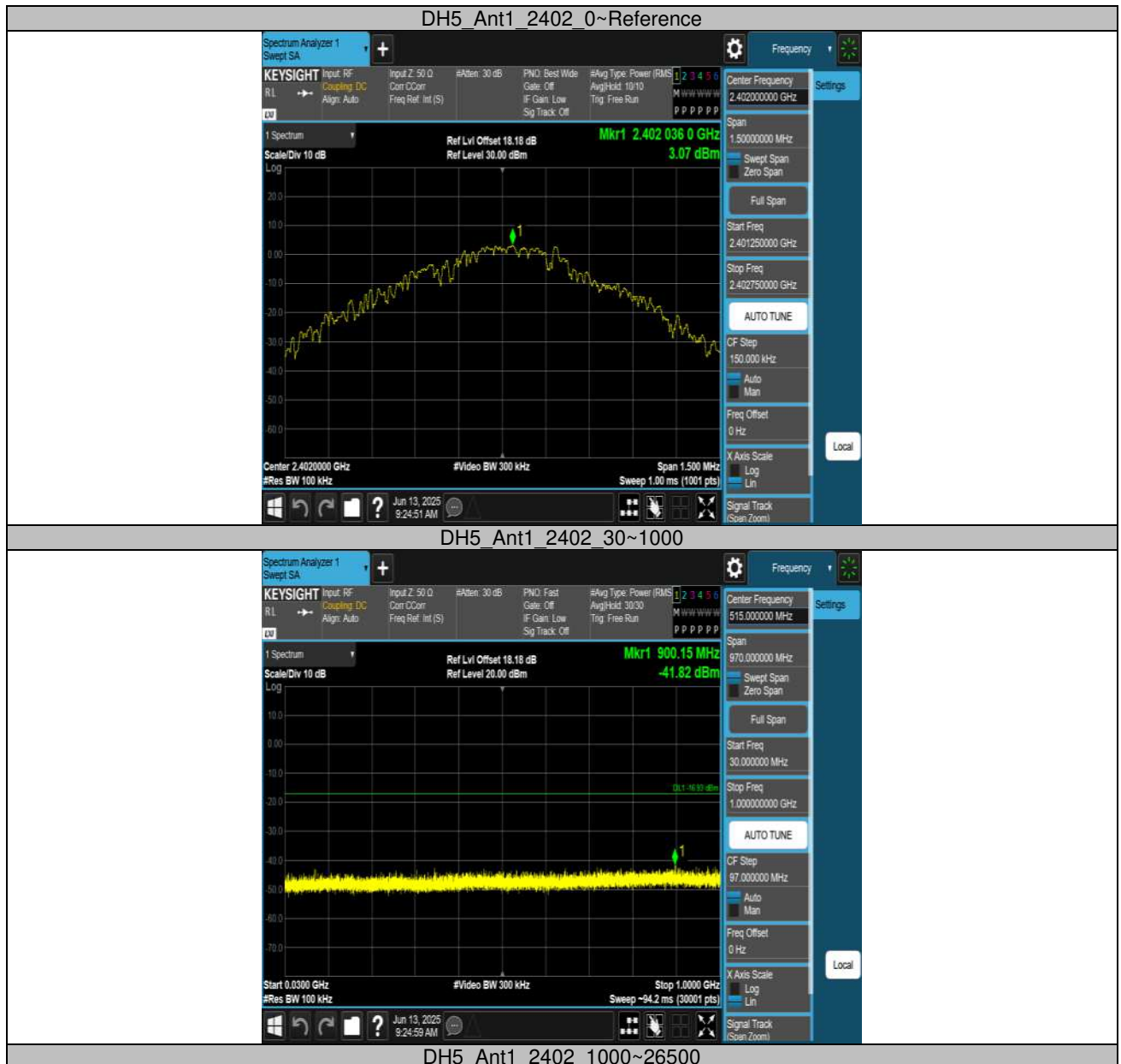


Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-41.82	≤-16.93	PASS
			1000~26500	3.07	-32	≤-16.93	PASS
		2441	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-41.38	≤-17.15	PASS
			1000~26500	2.85	-32.81	≤-17.15	PASS
		2480	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-41.95	≤-17.42	PASS
			1000~26500	2.58	-32.5	≤-17.42	PASS
3DH5	Ant1	2402	Reference	4.38	4.38	---	PASS
			30~1000	4.38	-41.26	≤-15.62	PASS
			1000~26500	4.38	-31.89	≤-15.62	PASS
		2441	Reference	4.53	4.53	---	PASS
			30~1000	4.53	-41.09	≤-15.47	PASS
			1000~26500	4.53	-32.06	≤-15.47	PASS
		2480	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-41.79	≤-16.32	PASS
			1000~26500	3.68	-32.54	≤-16.32	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



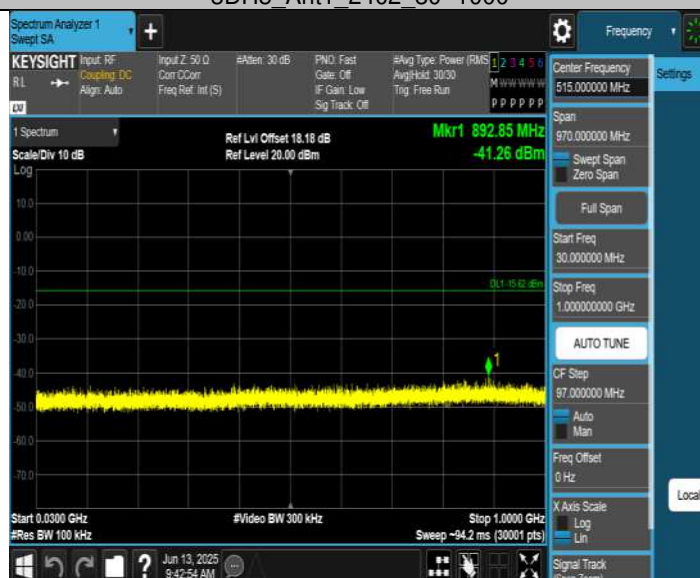
DH5_Ant1_2480_0~Reference



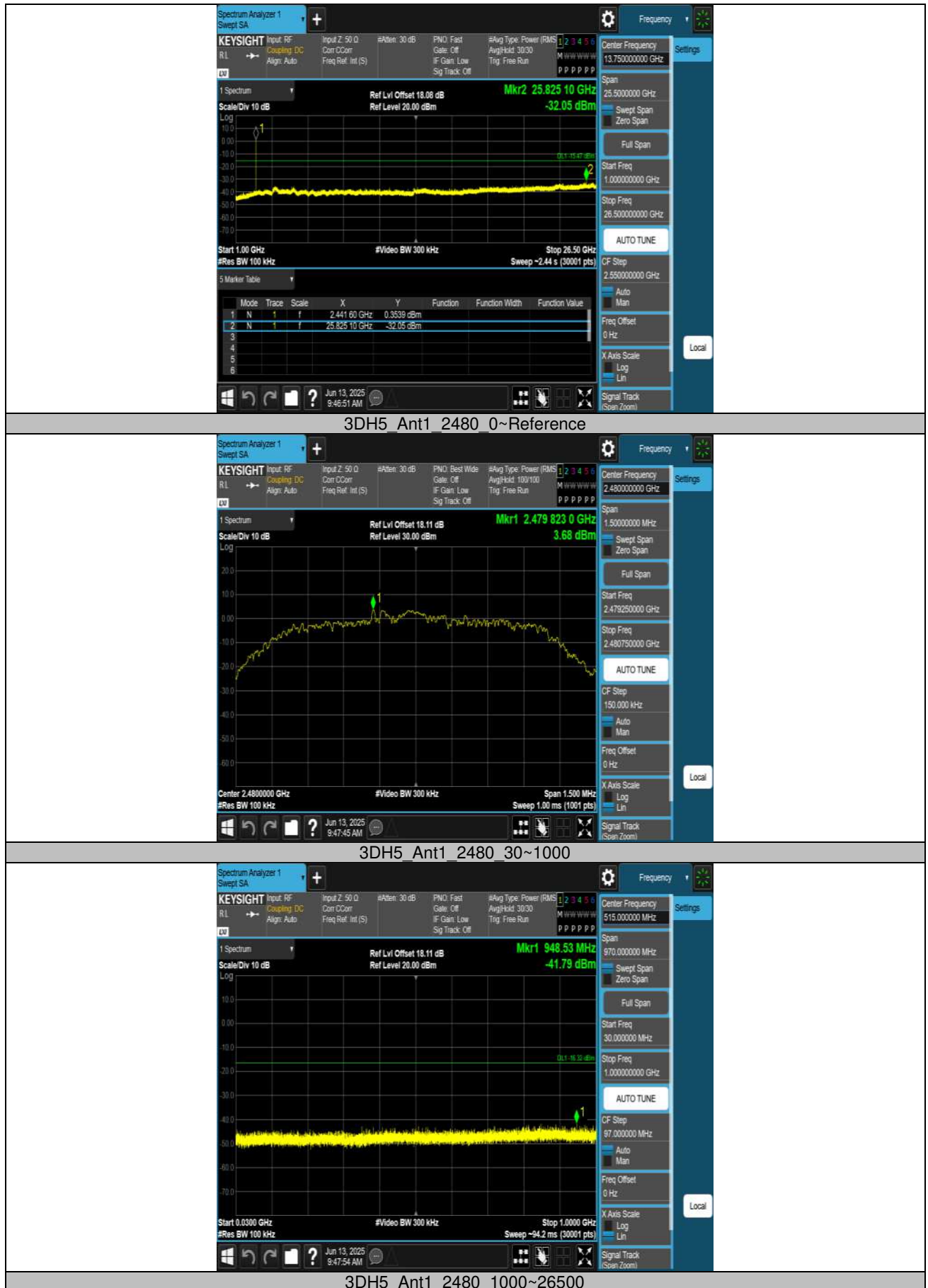
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500









Appendix A.8: Test Results of Radiated Spurious Emissions

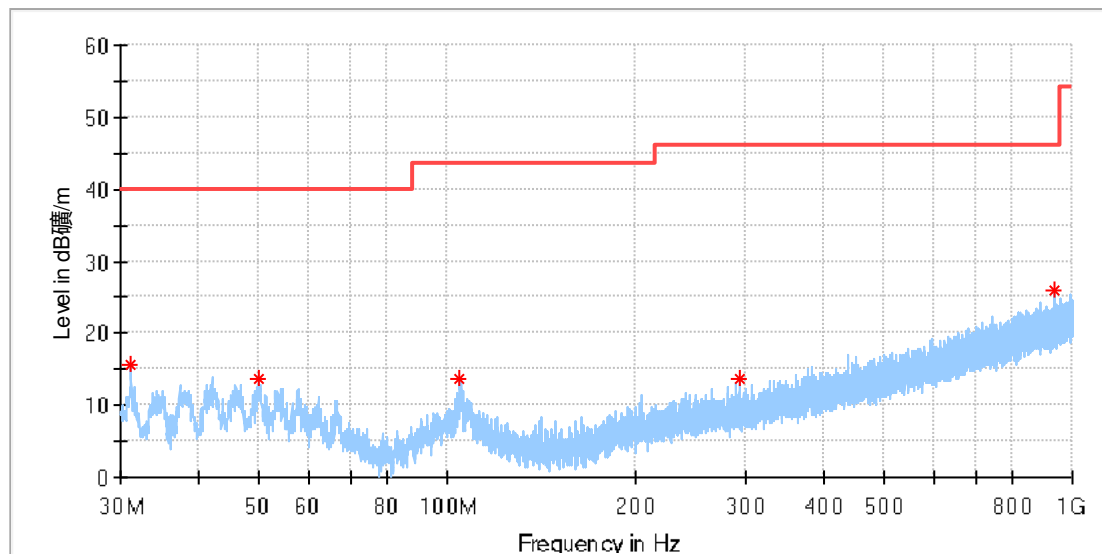
Note:

- 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.

30 MHz - 1GHz, Left earbud

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

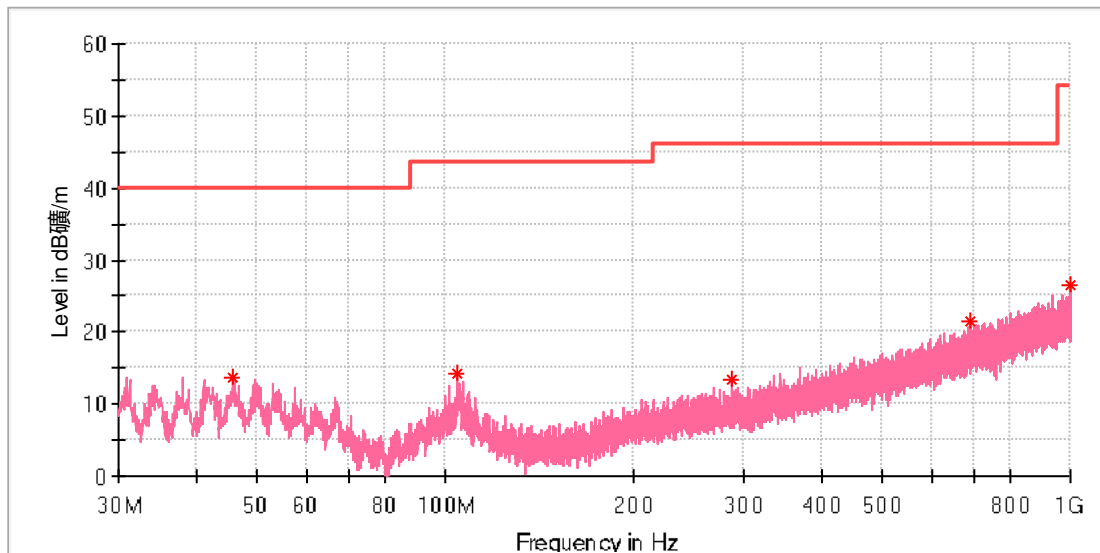
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.193846	15.51	40.00	24.49	100.0	H	331.0	-22.8
49.847692	13.72	40.00	26.28	100.0	H	7.0	-18.4
104.615385	13.59	43.50	29.91	100.0	H	167.0	-18.9
293.243077	13.80	46.00	32.20	100.0	H	100.0	-16.4
938.442308	25.87	46.00	20.13	100.0	H	349.0	-4.4

Final_Result

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

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
45.781154	13.62	40.00	26.38	100.0	V	198.0	-18.8
104.727308	14.26	43.50	29.24	100.0	V	111.0	-18.9
287.796154	13.27	46.00	32.73	100.0	V	254.0	-16.6
690.831154	21.49	46.00	24.51	100.0	V	351.0	-8.1
999.141923	26.48	54.00	27.52	100.0	V	198.0	-3.5

Final Result

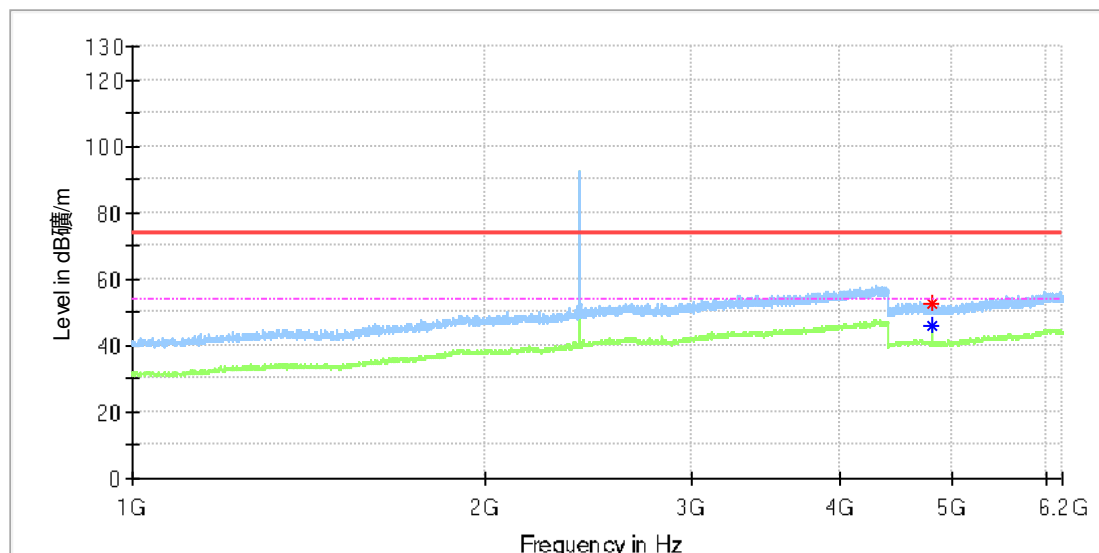
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz, Left earbud

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

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

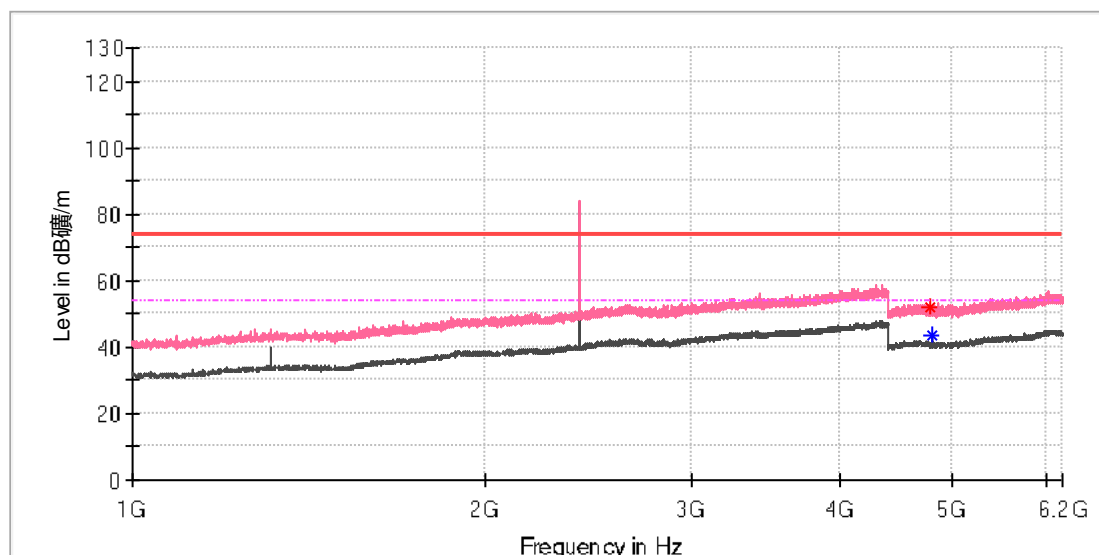
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	45.96	54.00	8.04	150.0	H	194.0	13.3
4804.500000	52.32	---	74.00	21.68	150.0	H	194.0	13.3

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	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

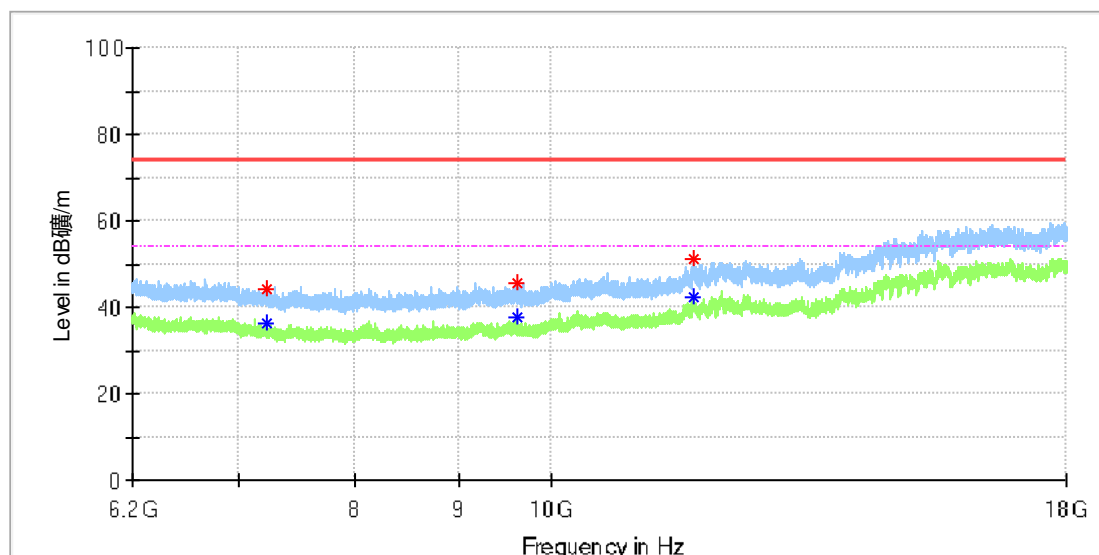
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4792.000000	52.27	---	74.00	21.74	150.0	V	179.0	13.3
4804.000000	---	43.42	54.00	10.58	150.0	V	243.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7500	93.7500	93.7500	93.7500	93.7500	93.7500		93.7500	93.7500

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

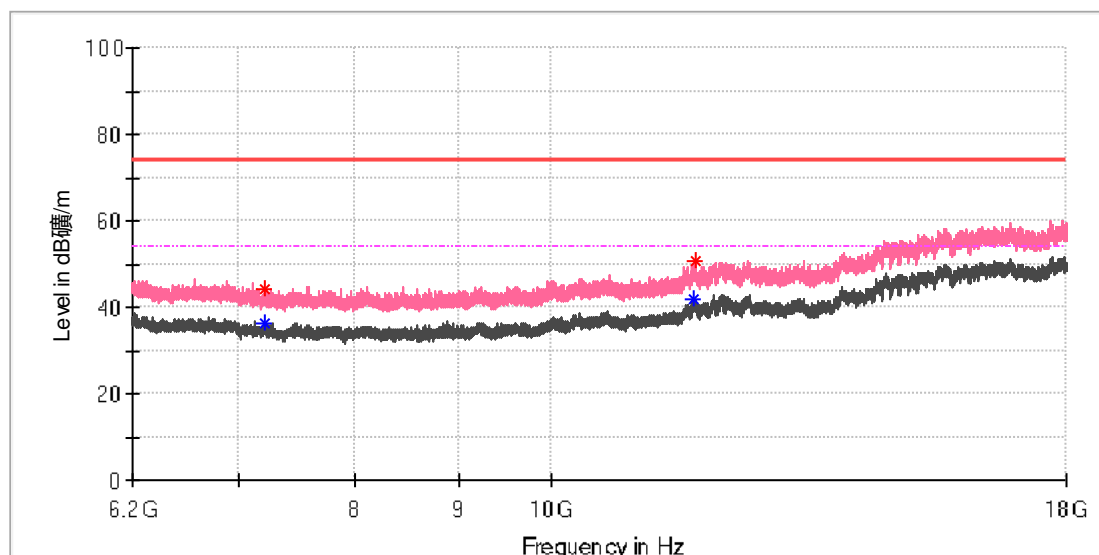
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7221.683333	44.10	---	74.00	29.90	150.0	H	294.0	8.7
7222.175000	---	36.12	54.00	17.88	150.0	H	326.0	8.7
9607.741667	45.52	---	74.00	28.48	150.0	H	339.0	10.4
9607.741667	---	37.61	54.00	16.39	150.0	H	339.0	10.4
11752.883333	---	42.35	54.00	11.65	150.0	H	193.0	15.5
11756.816667	51.22	---	74.00	22.78	150.0	H	181.0	15.4

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:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

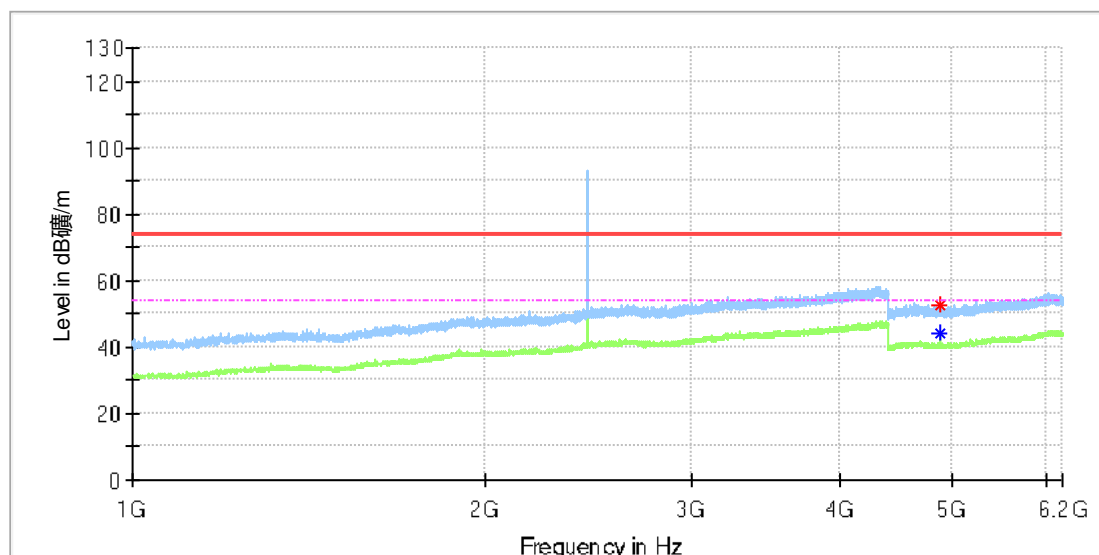
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	---	36.19	54.00	17.81	150.0	V	132.0	8.8
7216.275000	44.42	---	74.00	29.58	150.0	V	20.0	8.7
11769.600000	---	41.76	54.00	12.24	150.0	V	101.0	15.3
11796.150000	50.50	---	74.00	23.50	150.0	V	111.0	14.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75 MHz	118.5 dBμV/m	115.0 dBμV/m	110.0 dBμV/m	8.5 dB	1.5 cm	Vertical	135 deg	0.0 dB/m

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	16855572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

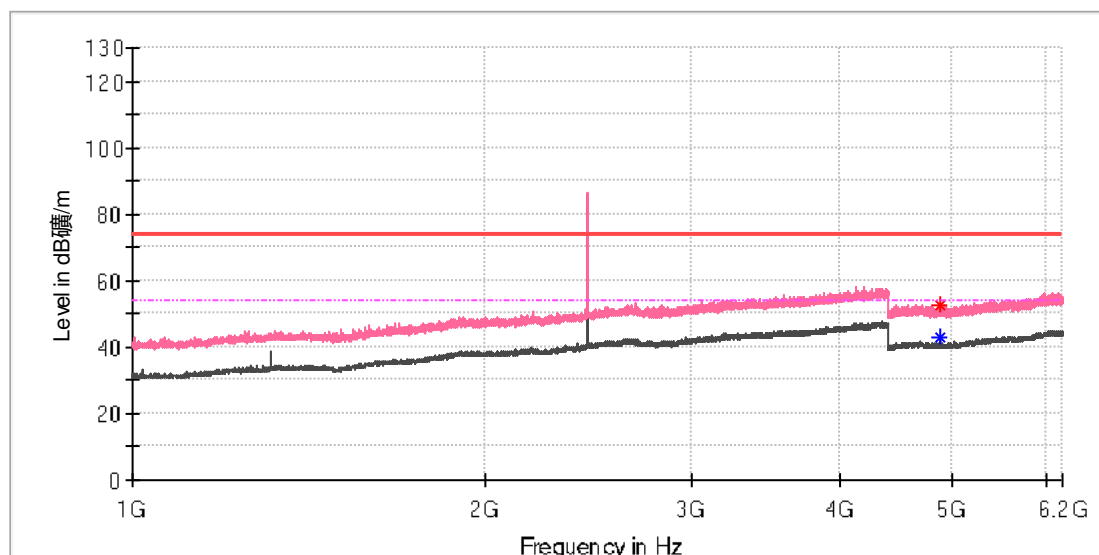
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	52.38	---	74.00	21.62	150.0	H	148.0	13.3
4882.000000	---	44.15	54.00	9.85	150.0	H	148.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

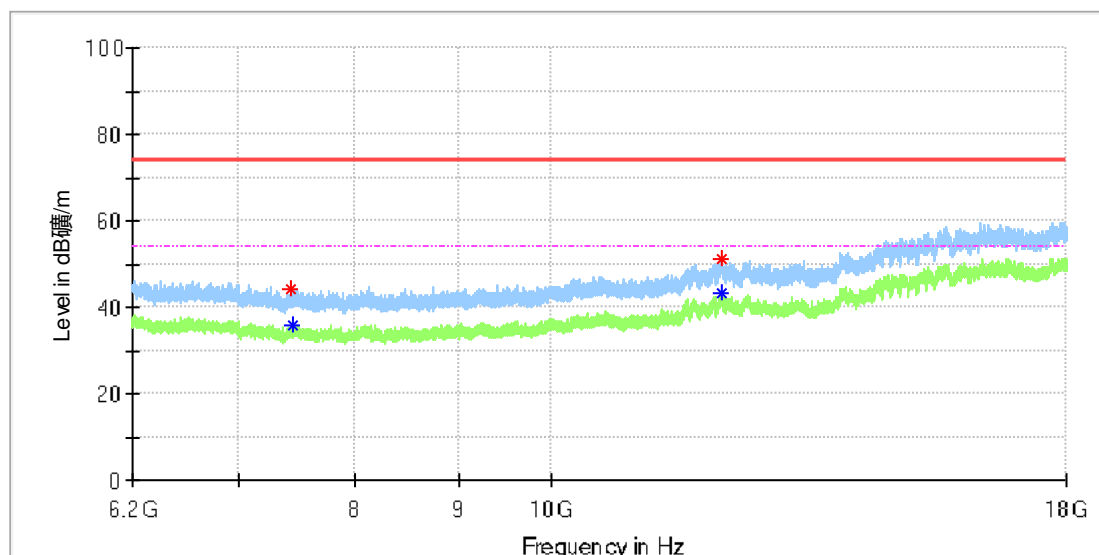
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	43.19	54.00	10.81	150.0	V	49.0	13.3
4884.000000	52.75	---	74.00	21.25	150.0	V	75.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7500	93.7500	93.7500	93.7500	93.7500	93.7500		93.7500	93.7500

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

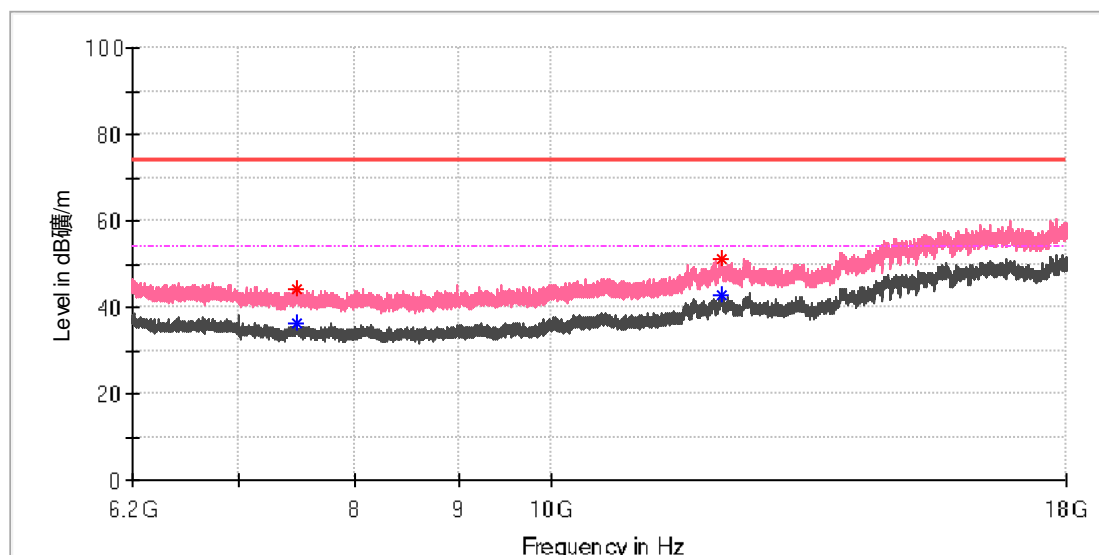
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7420.316667	43.96	---	74.00	30.04	150.0	H	359.0	8.4
7451.291667	---	35.94	54.00	18.06	150.0	H	293.0	8.5
12141.300000	51.14	---	74.00	22.86	150.0	H	327.0	16.5
12149.166667	---	43.26	54.00	10.74	150.0	H	271.0	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)
93.75 MHz	93.75 dBμV/m	93.75 dBμV/m	93.75 dBμV/m	93.75 dB	93.75 cm		93.75 deg	93.75 dB/m

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

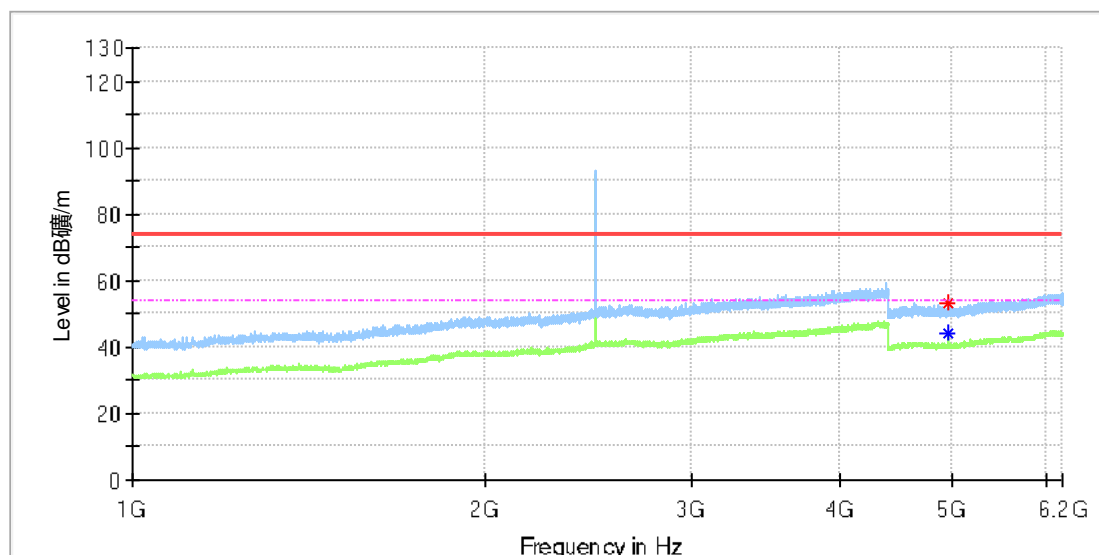
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7474.891667	44.35	---	74.00	29.65	150.0	V	8.0	8.6
7479.316667	---	36.43	54.00	17.57	150.0	V	152.0	8.7
12147.200000	---	42.71	54.00	11.29	150.0	V	1.0	16.7
12149.658333	51.39	---	74.00	22.61	150.0	V	141.0	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)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000000	000000	000000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

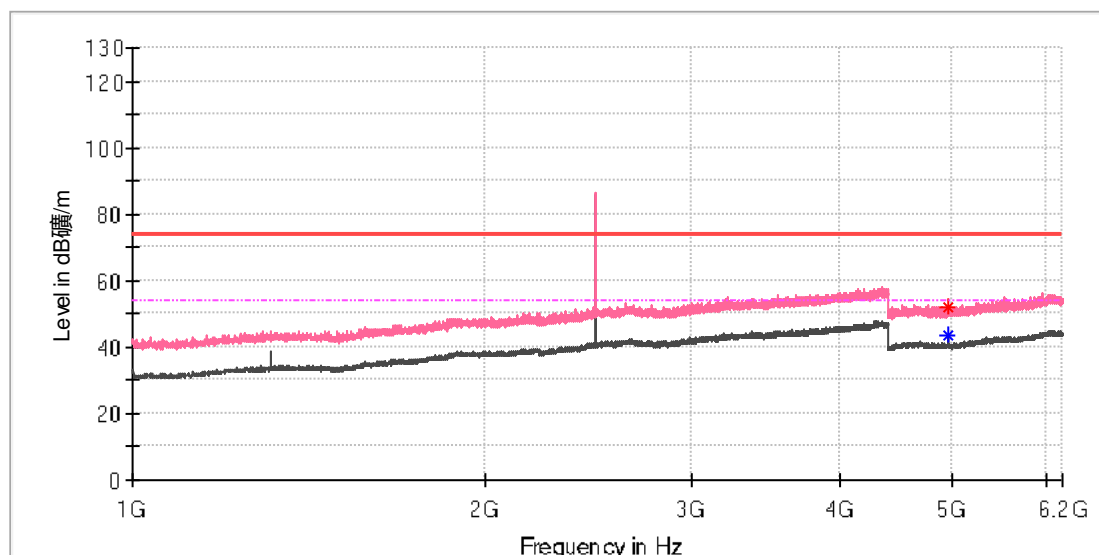
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	53.21	---	74.00	20.79	150.0	H	238.0	13.3
4960.000000	---	44.07	54.00	9.93	150.0	H	238.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

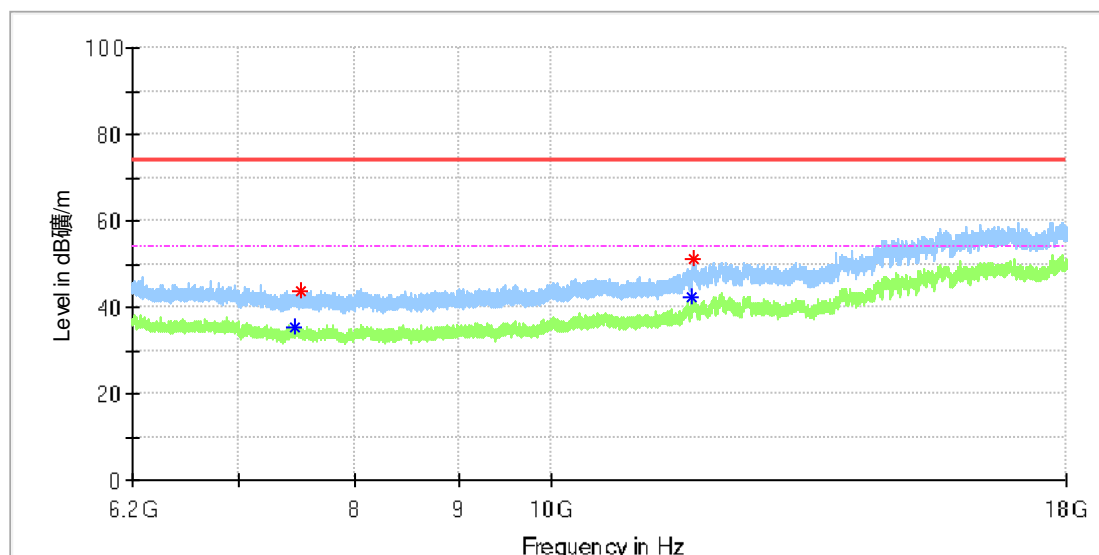
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	51.92	---	74.00	22.08	150.0	V	0.0	13.3
4960.000000	---	43.70	54.00	10.30	150.0	V	227.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.000000	93.000000	93.000000	93.000000	93.000000	93.000000		93.000000	93.000000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

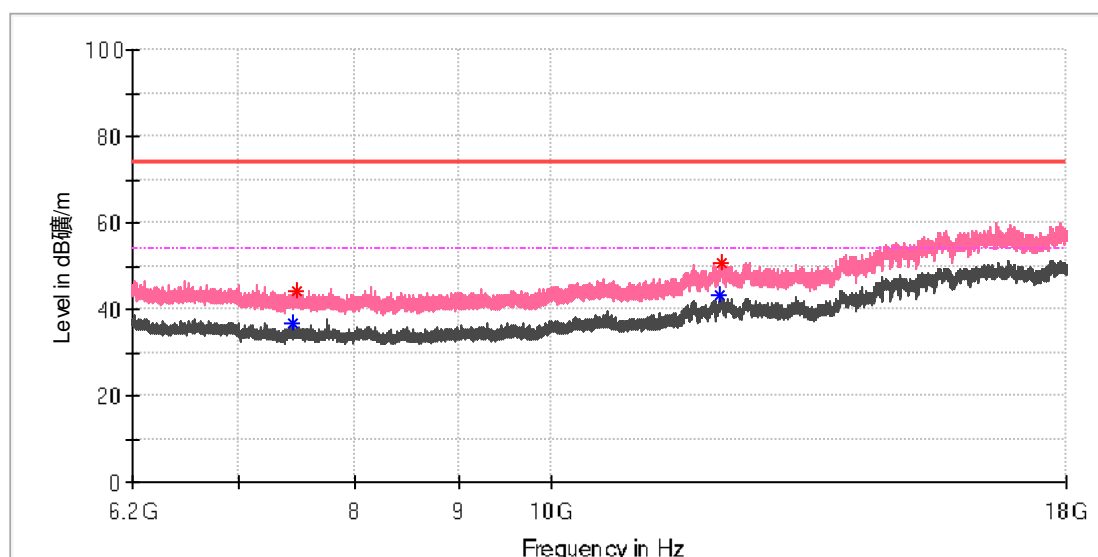
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7466.041667	---	35.52	54.00	18.48	150.0	H	282.0	8.6
7511.766667	43.66	---	74.00	30.34	150.0	H	338.0	8.7
11746.983333	---	42.34	54.00	11.66	150.0	H	304.0	15.3
11749.933333	51.07	---	74.00	22.93	150.0	H	338.0	15.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000000	000000	000000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
7453.258333	---	36.89	54.00	17.11	150.0	V	275.0	8.5
7478.825000	44.09	---	74.00	29.91	150.0	V	133.0	8.7
12124.583333	---	43.14	54.00	10.86	150.0	V	13.0	16.1
12150.641667	50.70	---	74.00	23.30	150.0	V	218.0	16.7

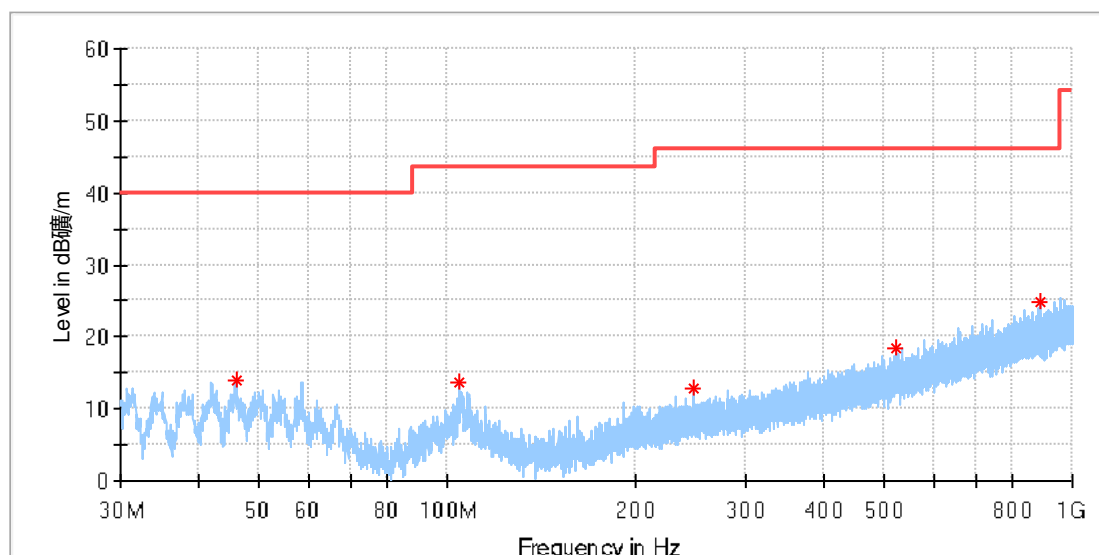
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.000000	120.000000	110.000000	120.000000	0.000000	300.000000			

30 MHz - 1GHz, Right earbud

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

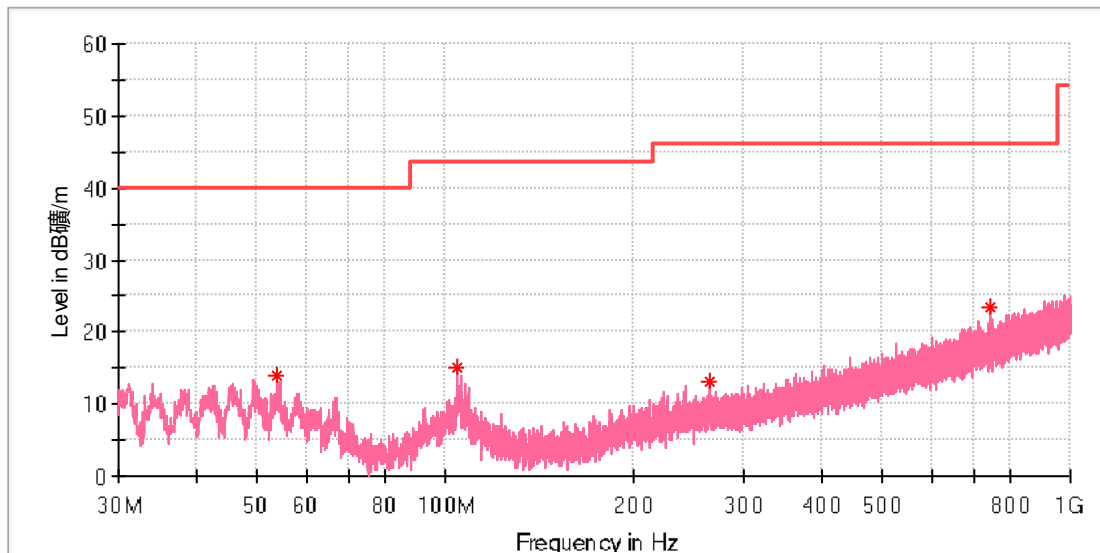
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.116923	14.05	40.00	25.95	100.0	H	33.0	-18.8
104.690000	13.64	43.50	29.86	100.0	H	299.0	-18.9
247.280000	12.75	46.00	33.25	100.0	H	15.0	-17.5
521.193077	18.55	46.00	27.45	100.0	H	70.0	-11.4
890.986923	24.97	46.00	21.03	100.0	H	223.0	-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: DTR HK VSTY TWS EARBUDS
Model: 083669-991147667-0306
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168555572/A004001187-021
Test Voltage: Battery
Remark: Temp 22 Humi:52%
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)
53.802308	13.90	40.00	26.10	100.0	V	133.0	-18.5
104.727308	14.96	43.50	28.54	100.0	V	18.0	-18.9
264.814615	13.16	46.00	32.84	100.0	V	151.0	-17.0
742.502308	23.43	46.00	22.57	100.0	V	327.0	-7.2

Final Result

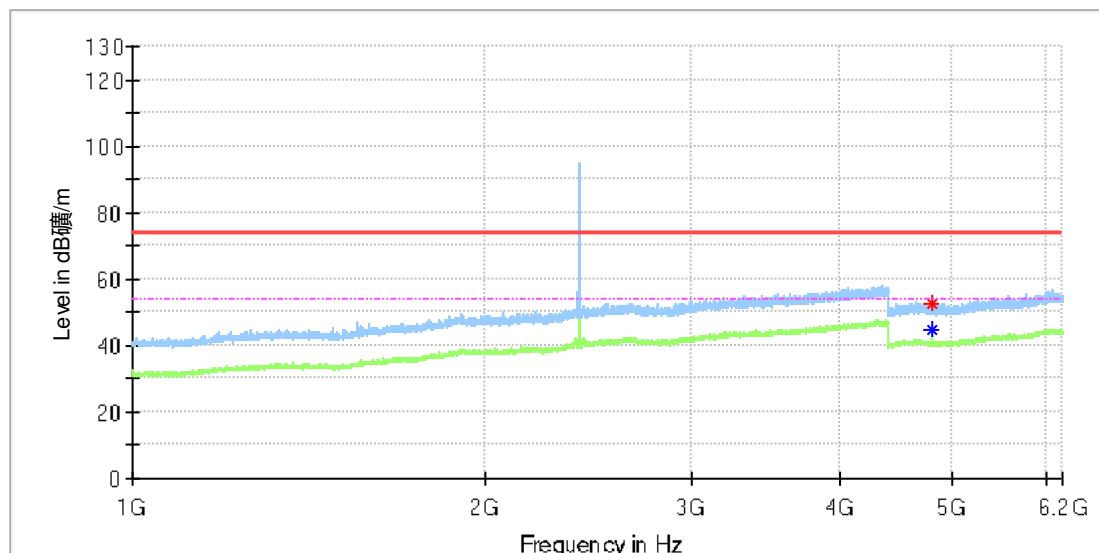
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz, Right earbud

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

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

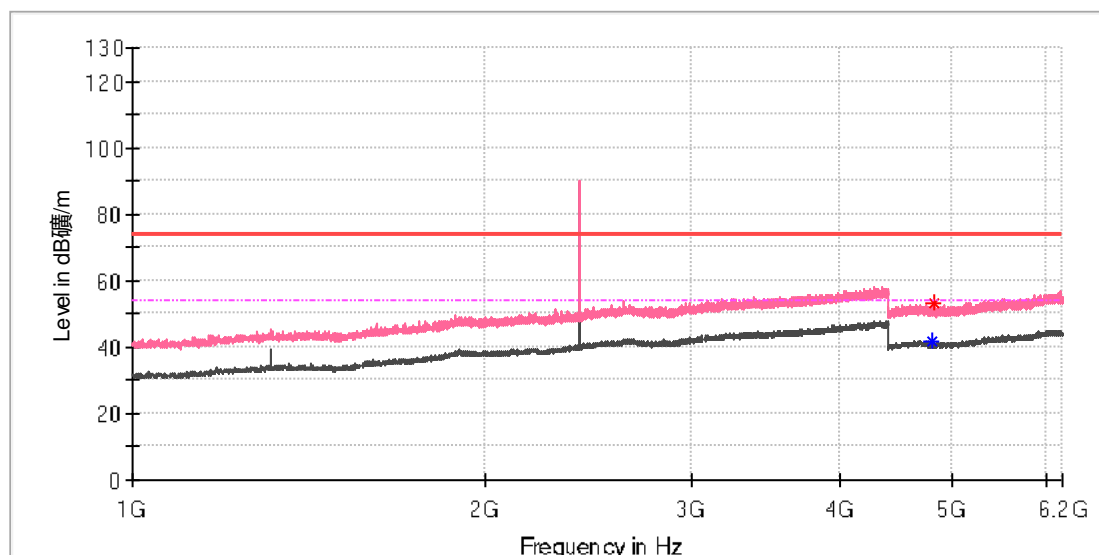
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	52.76	---	74.00	21.24	150.0	H	136.0	13.3
4804.000000	---	44.94	54.00	9.06	150.0	H	160.0	13.3

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	93.750000	93.750000	93.750000	93.750000	93.750000		93.750000	93.750000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	16855572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

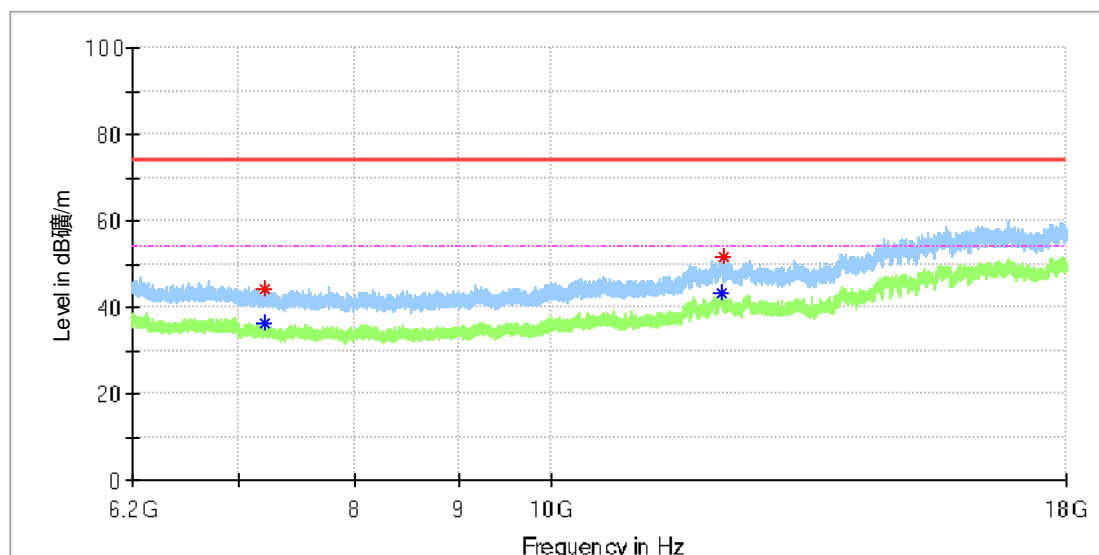
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	41.67	54.00	12.33	150.0	V	255.0	13.3
4812.000000	53.15	---	74.00	20.85	150.0	V	242.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

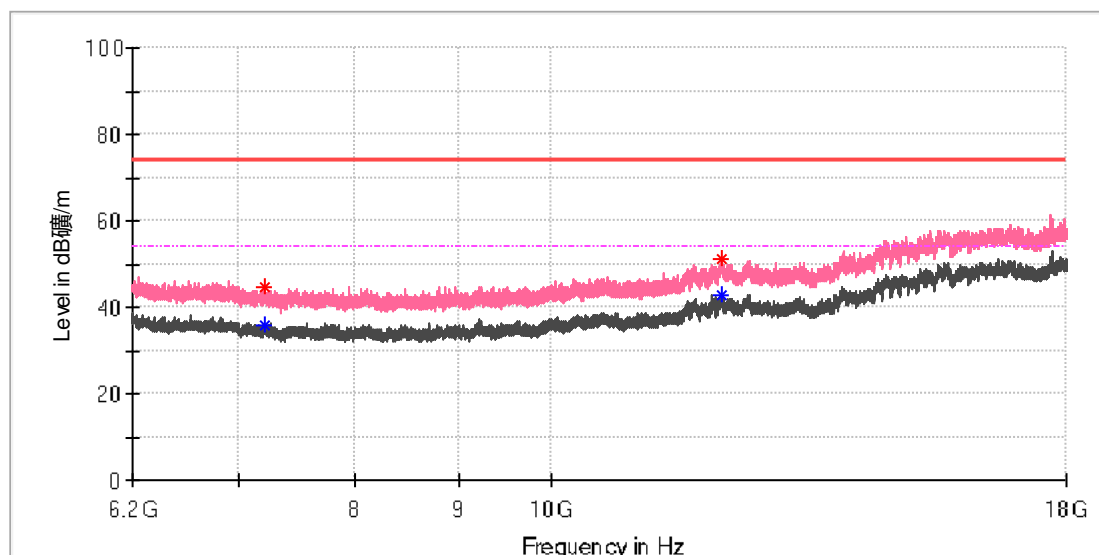
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	---	36.15	54.00	17.85	150.0	H	233.0	8.8
7215.783333	44.40	---	74.00	29.60	150.0	H	0.0	8.7
12149.166667	---	43.09	54.00	10.91	150.0	H	266.0	16.7
12162.441667	51.68	---	74.00	22.32	150.0	H	255.0	16.1

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	120.000000	110.000000	120.000000	0.000000	100.000000	000000	000000	000000

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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	---	35.81	54.00	18.19	150.0	V	130.0	8.8
7206.933333	44.48	---	74.00	29.52	150.0	V	96.0	8.8
12133.433333	---	43.00	54.00	11.00	150.0	V	140.0	16.3
12137.366667	51.25	---	74.00	22.75	150.0	V	0.0	16.4

Final Result

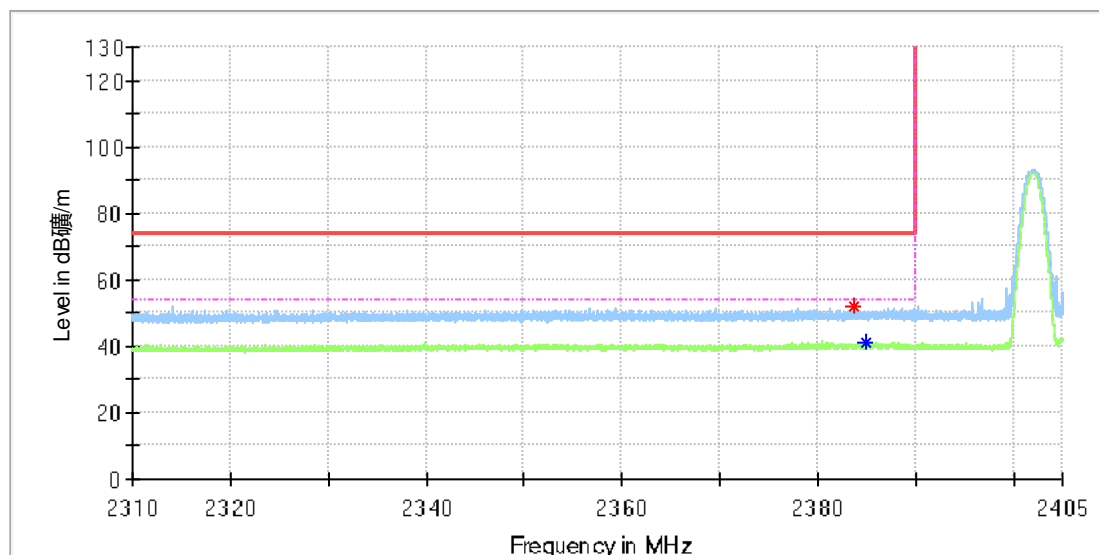
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750000	120.000000	110.000000	120.000000	0.000000	100.000000	000000	000000	000000

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

For left earbud

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

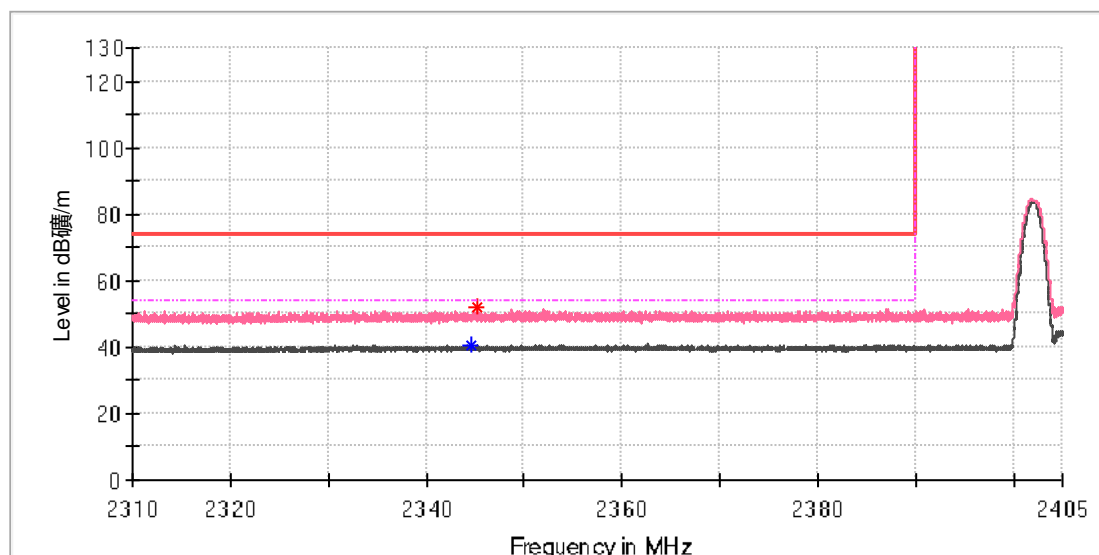
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.611029	51.94	---	74.00	22.06	150.0	H	303.0	8.5
2384.980147	---	41.36	54.00	12.64	150.0	H	279.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	118.0	115.0	115.0	3.0	100	V	0	0.0

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	16855572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

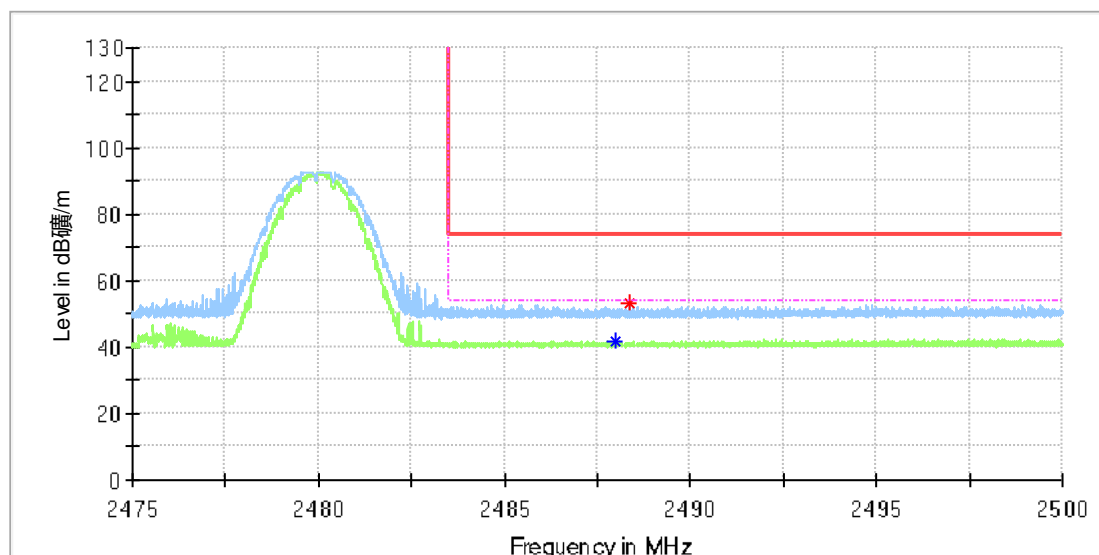
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2344.605147	---	40.38	54.00	13.62	150.0	V	220.0	8.4
2345.150000	51.98	---	74.00	22.02	150.0	V	19.0	8.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

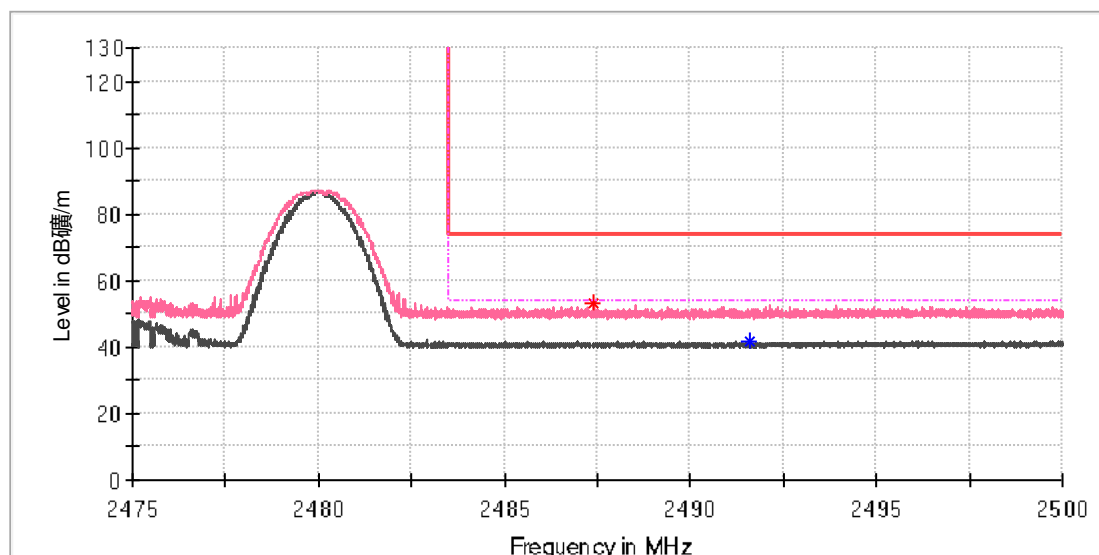
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.992647	---	41.67	54.00	12.33	150.0	H	297.0	9.0
2488.371324	52.92	---	74.00	21.08	150.0	H	218.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168555572/A004001187-020
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
2487.419118	53.08	---	74.00	20.92	150.0	V	204.0	9.0
2491.606618	---	41.94	54.00	12.06	150.0	V	189.0	9.0

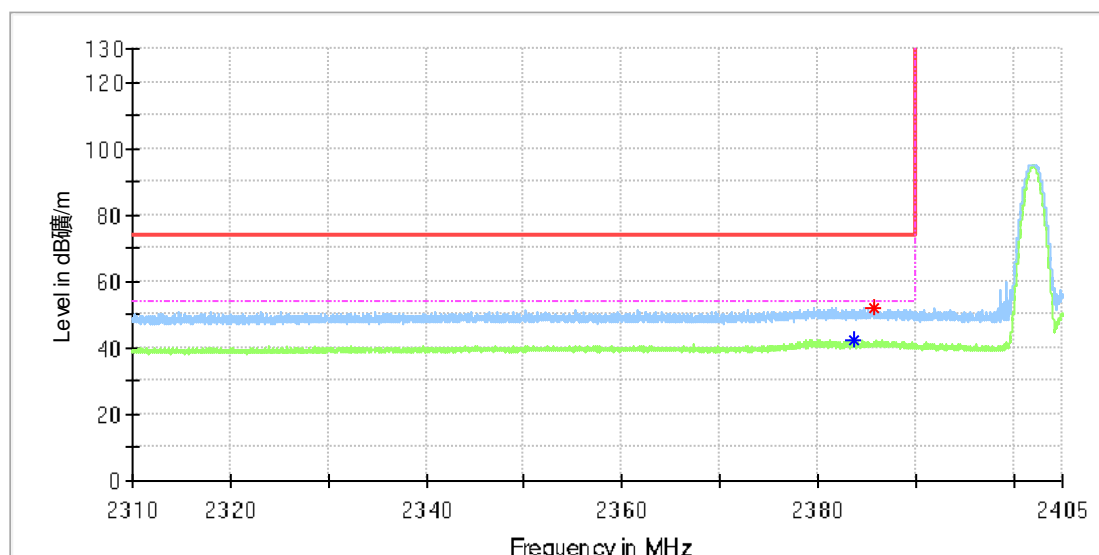
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7500	93.7500	93.7500	93.7500	93.7500	93.7500		93.7500	93.7500

For right earbud

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

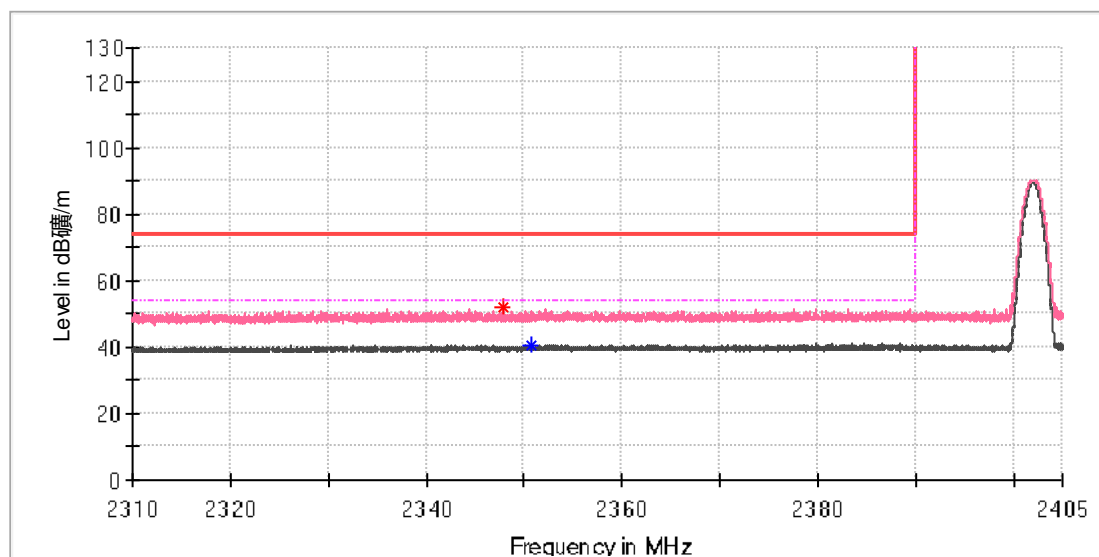
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.694853	---	42.28	54.00	11.72	150.0	H	286.0	8.5
2385.776471	52.25	---	74.00	21.75	150.0	H	286.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	DTR HK VSTY TWS EARBUDS
Model:	083669-991147667-0306
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168555572/A004001187-021
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
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)
2347.790441	51.74	---	74.00	22.26	150.0	V	113.0	8.5
2350.794118	---	40.54	54.00	13.46	150.0	V	7.0	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	122.5	122.5	0.0	100	V	0	0.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	30.0	V	135	0.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	93.75	93.75	93.75	93.75	93.75		93.75	93.75