

Appendix A: Test Results of Bluetooth BR & EDR mode

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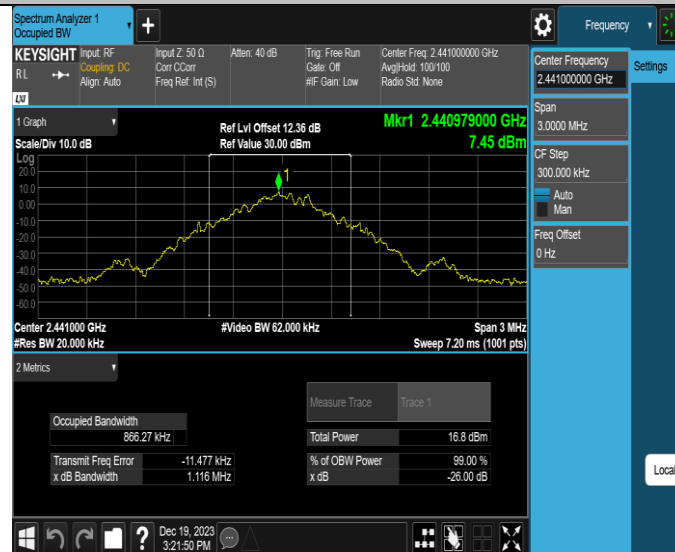
Appendix A.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.89160	2401.5421	2402.4337	---	PASS
		2441	0.86627	2440.5554	2441.4217	---	PASS
		2480	0.86420	2479.5505	2480.4147	---	PASS
3DH5	Ant1	2402	1.1785	2401.3975	2402.5760	---	PASS
		2441	1.1673	2440.4028	2441.5701	---	PASS
		2480	1.1587	2479.4083	2480.5670	---	PASS

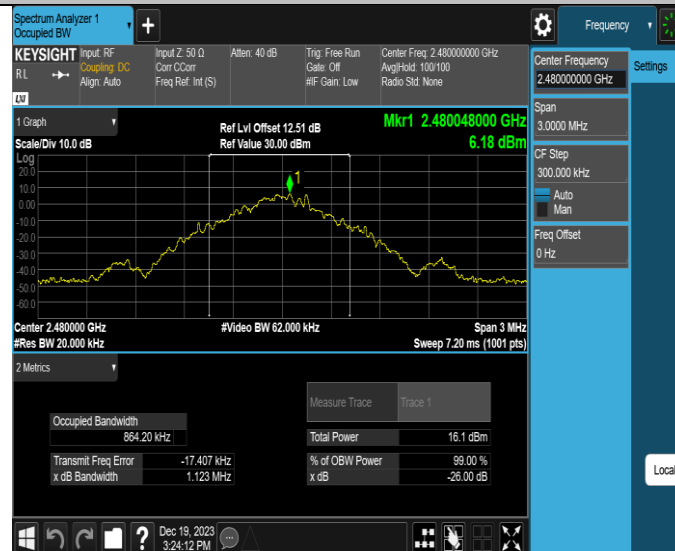
DH5_Ant1_2402

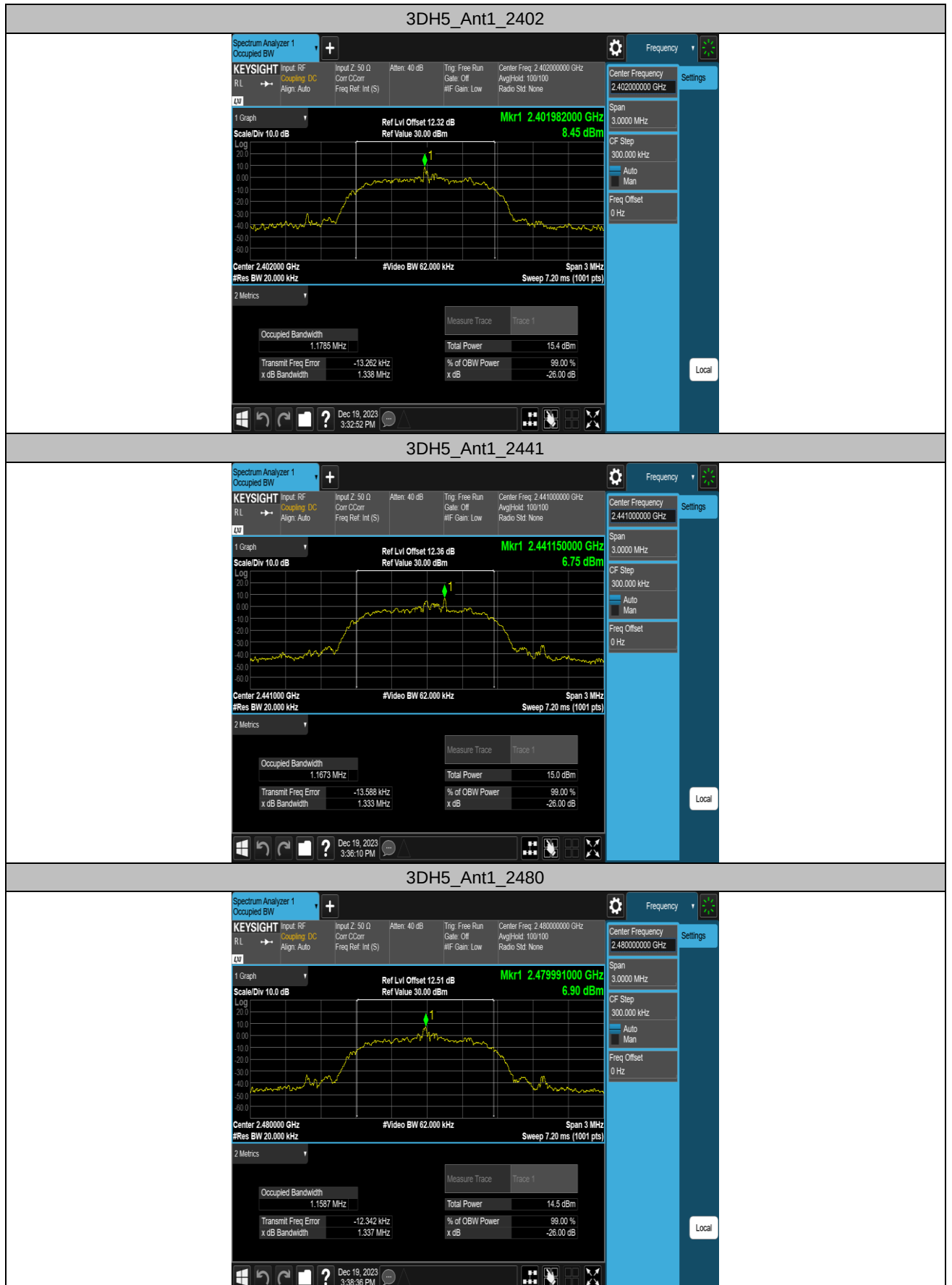


DH5_Ant1_2441



DH5_Ant1_2480





Appendix A.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.984	2401.535	2402.519	---	PASS
		2441	1.044	2440.472	2441.516	---	PASS
		2480	0.972	2479.535	2480.507	---	PASS
3DH5	Ant1	2402	1.239	2401.358	2402.597	---	PASS
		2441	1.167	2440.409	2441.576	---	PASS
		2480	1.224	2479.364	2480.588	---	PASS

DH5_Ant1_2402



DH5_Ant1_2441



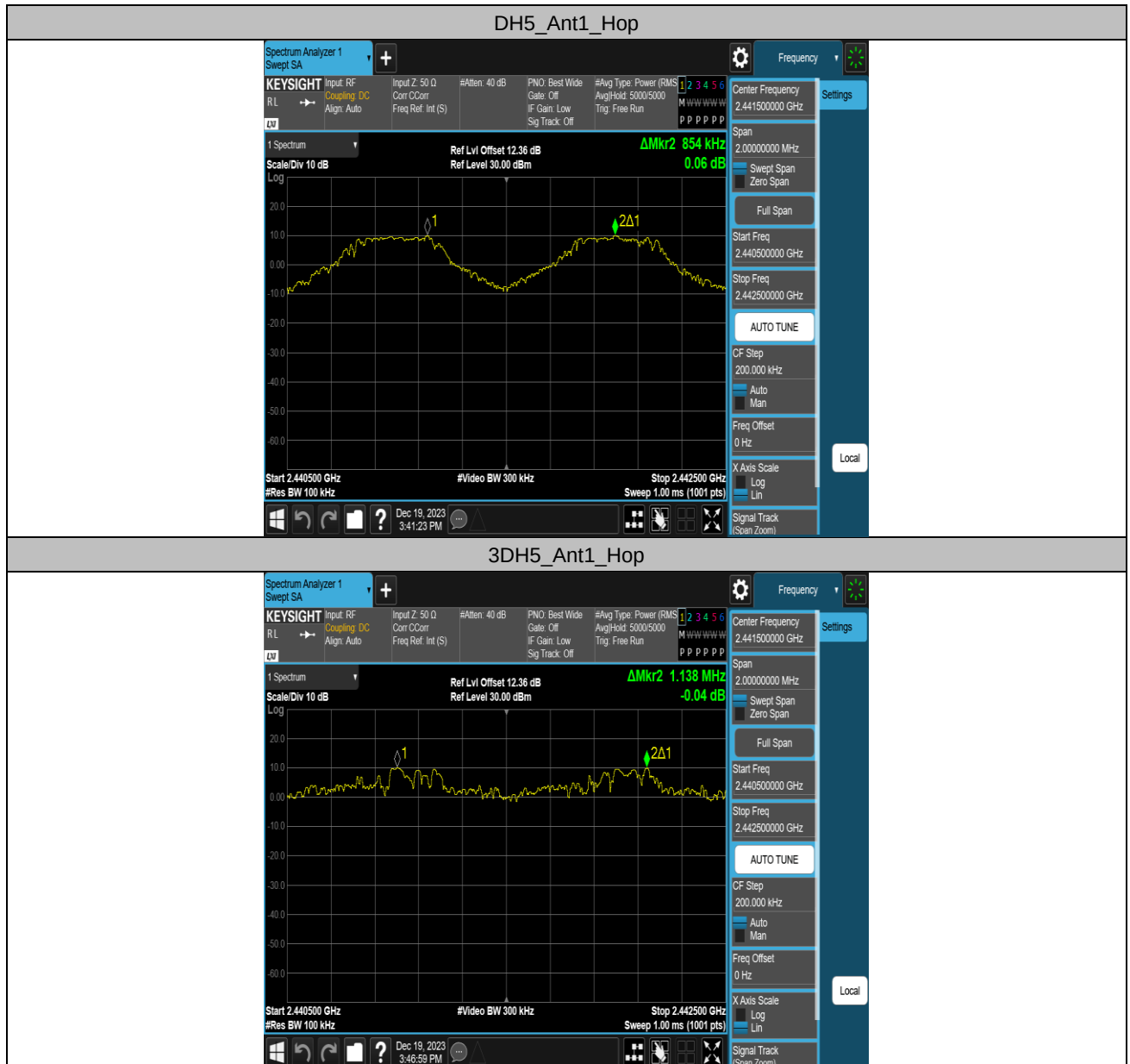
DH5_Ant1_2480





Appendix A.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.854	≥0.696	PASS
3DH5	Ant1	Hop	1.138	≥0.826	PASS



Appendix A.4: Test Results of Number of Hopping Frequency

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



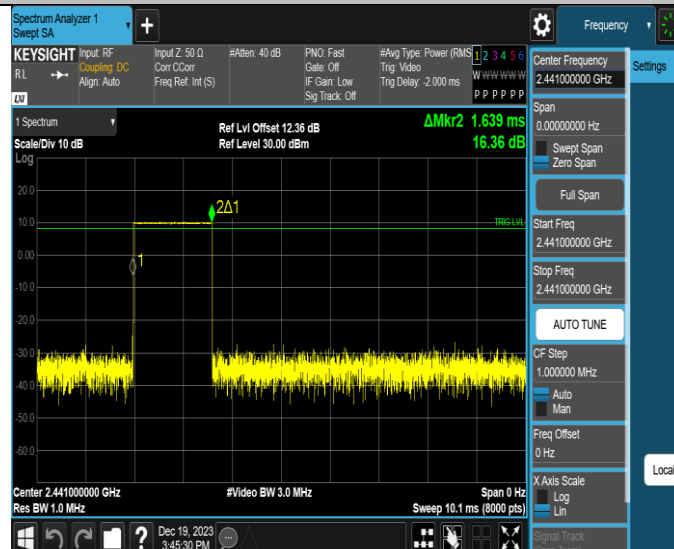
Appendix A.5: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.383	153	0.059	≤0.4	PASS
DH3	Ant1	Hop	1.639	97	0.159	≤0.4	PASS
DH5	Ant1	Hop	2.888	75	0.217	≤0.4	PASS
3DH1	Ant1	Hop	0.393	153	0.06	≤0.4	PASS
3DH3	Ant1	Hop	1.643	108	0.177	≤0.4	PASS
3DH5	Ant1	Hop	2.893	76	0.22	≤0.4	PASS

DH1_Ant1_Hop



DH3_Ant1_Hop





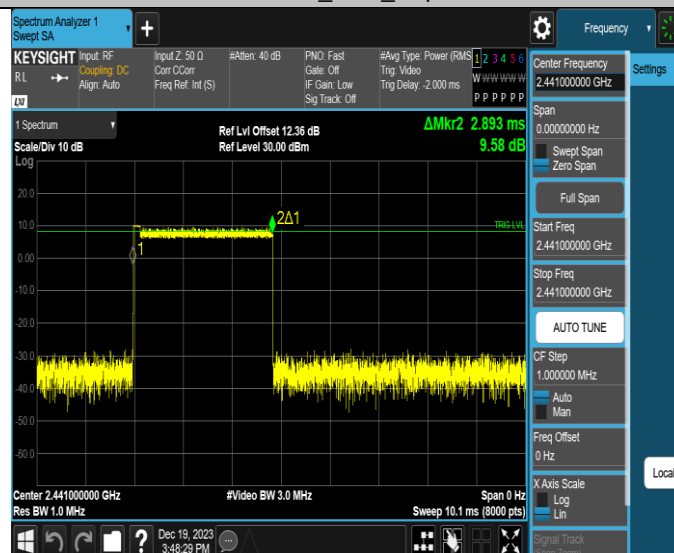
DH5_Ant1_Hop







3DH5_Ant1_Hop

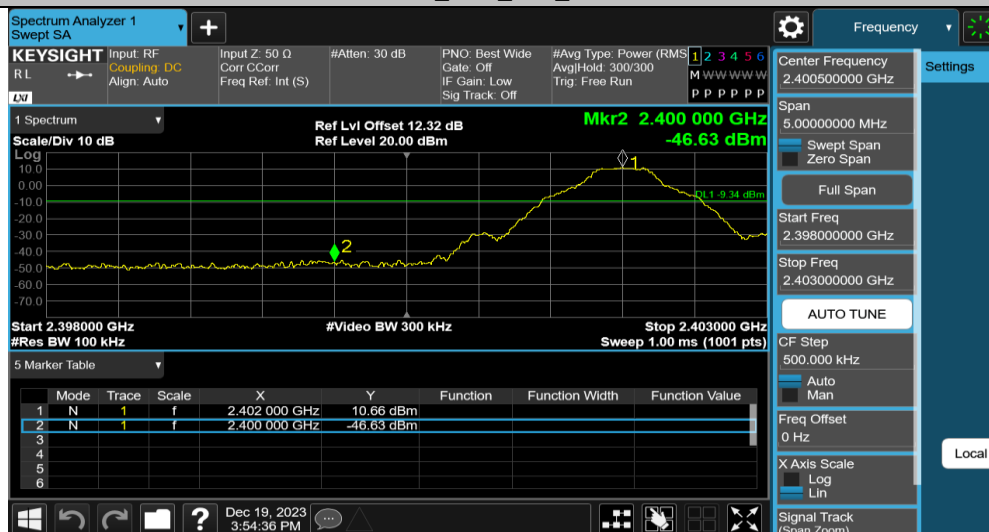


Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

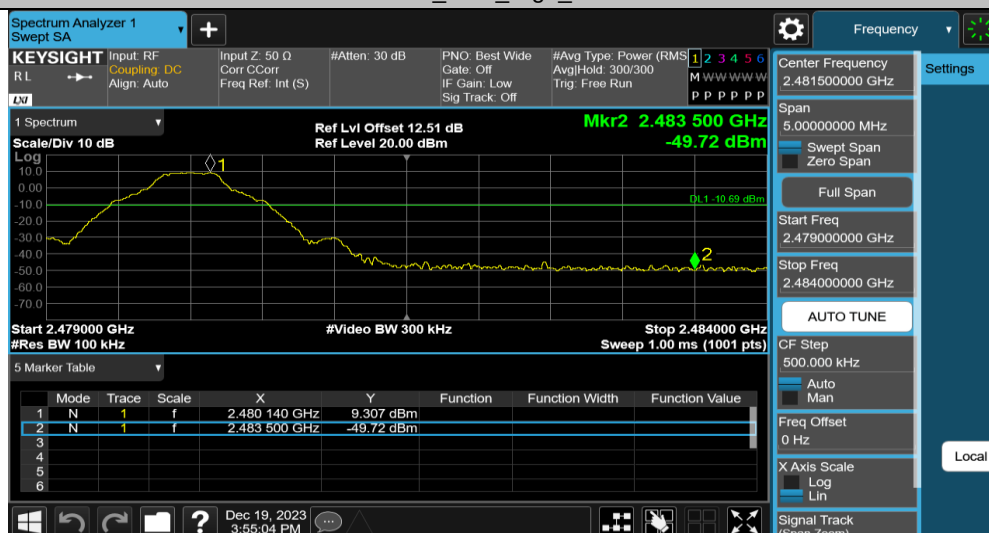
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	10.66	-46.63	≤-9.34	PASS
		High	2480	9.307	-49.72	≤-10.69	PASS
3DH5	Ant1	Low	2402	10.82	-44.52	≤-9.18	PASS
		High	2480	9.582	-49.67	≤-10.42	PASS
DH5	Ant1	Hopping	2402	10.24	-49.95	≤-9.76	PASS
		Hopping	2480	8.949	-49.81	≤-11.05	PASS
3DH5	Ant1	Hopping	2402	4.295	-48.87	≤-15.71	PASS
		Hopping	2480	3.966	-47.31	≤-16.03	PASS

DH5_Ant1_Low_2402



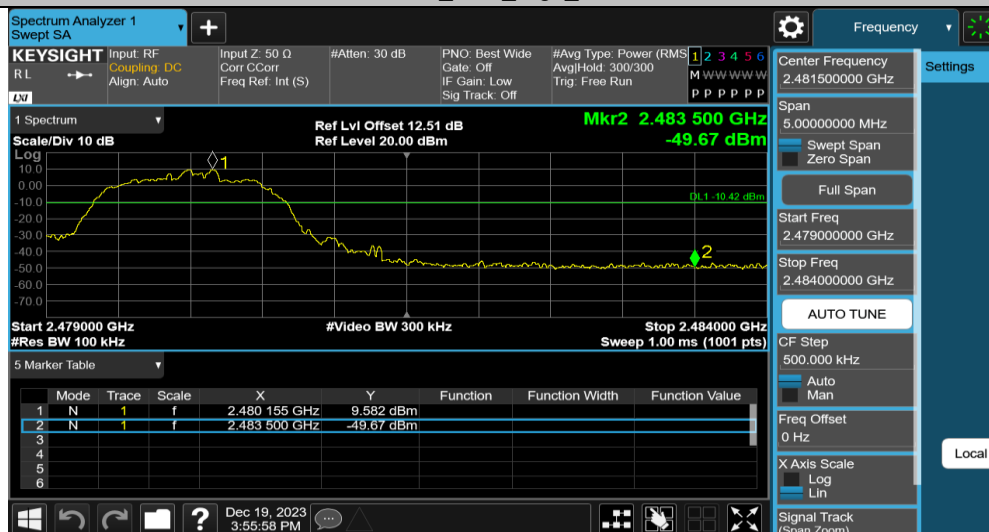
DH5_Ant1_High_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



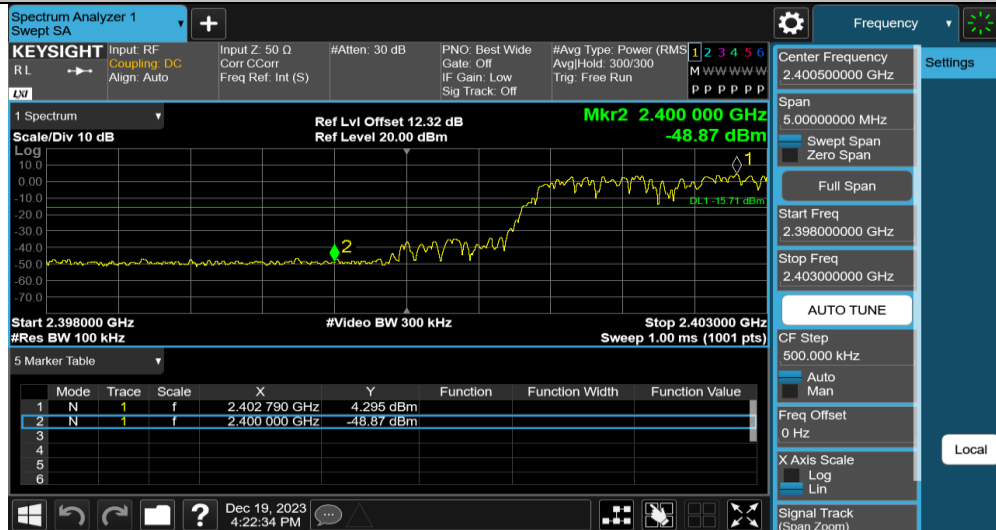
DH5_Ant1_Hopping_2402



DH5_Ant1_Hopping_2480



3DH5_Ant1_Hopping_2402



3DH5_Ant1_Hopping_2480



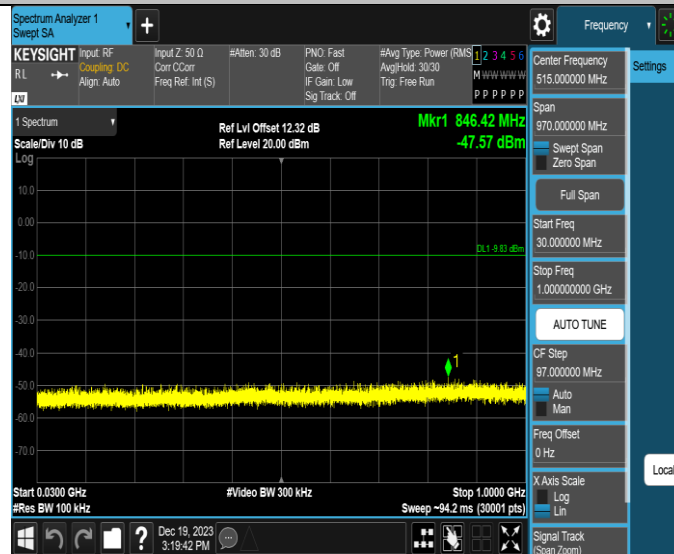
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	10.17	10.17	---	PASS
			30~1000	10.17	-47.57	≤-9.83	PASS
			1000~26500	10.17	-37.96	≤-9.83	PASS
		2441	Reference	9.57	9.57	---	PASS
			30~1000	9.57	-47.29	≤-10.43	PASS
			1000~26500	9.57	-38.16	≤-10.43	PASS
		2480	Reference	9.53	9.53	---	PASS
			30~1000	9.53	-47.24	≤-10.47	PASS
			1000~26500	9.53	-38.06	≤-10.47	PASS
3DH5	Ant1	2402	Reference	10.52	10.52	---	PASS
			30~1000	10.52	-47.94	≤-9.48	PASS
			1000~26500	10.52	-38.39	≤-9.48	PASS
		2441	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-47.73	≤-14.67	PASS
			1000~26500	5.33	-38.85	≤-14.67	PASS
		2480	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-47.32	≤-15.85	PASS
			1000~26500	4.15	-38.51	≤-15.85	PASS

DH5_Ant1_2402_0-Reference



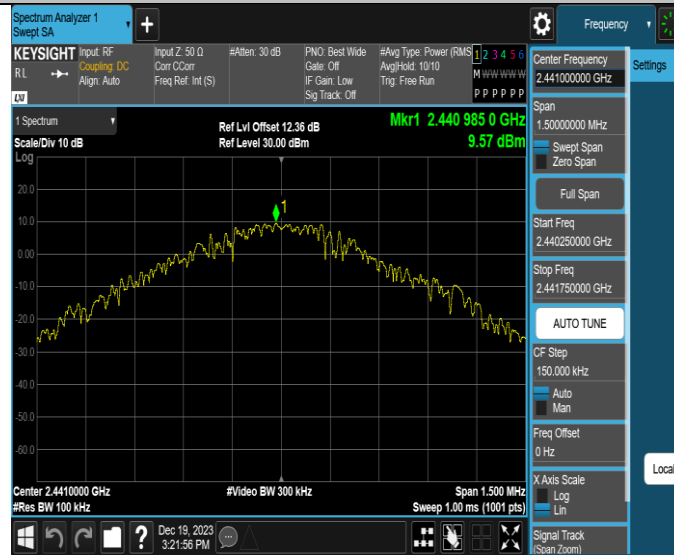
DH5_Ant1_2402_30-1000



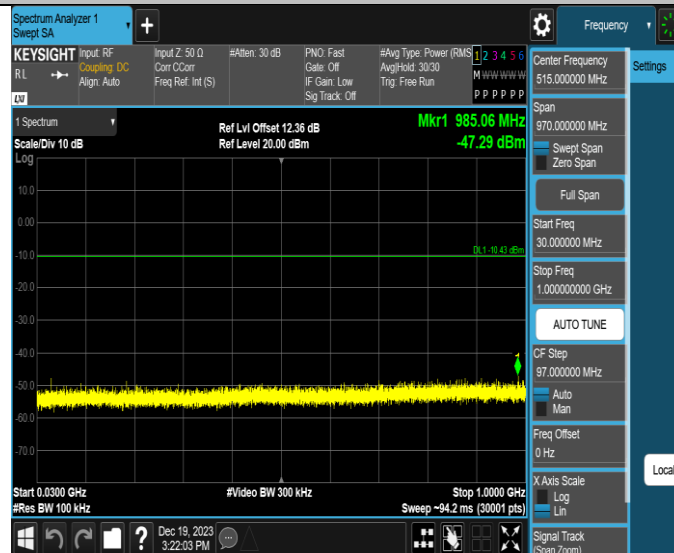
DH5_Ant1_2402_1000-26500



DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30-1000



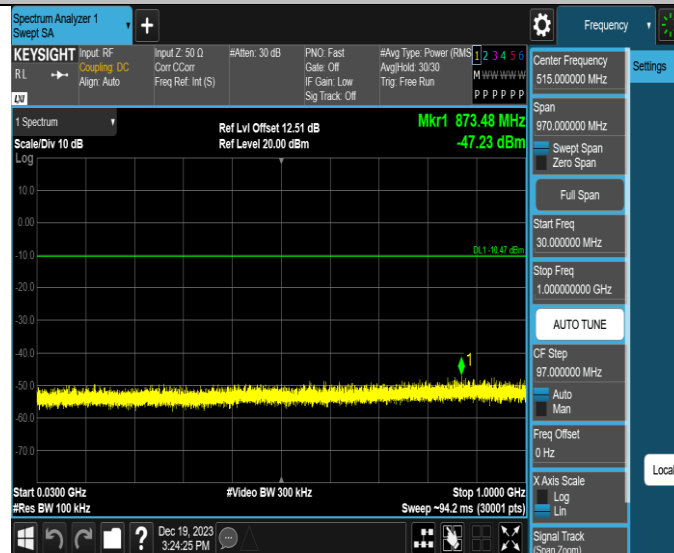
DH5_Ant1_2441_1000-26500



DH5_Ant1_2480_0-Reference



DH5_Ant1_2480_30-1000



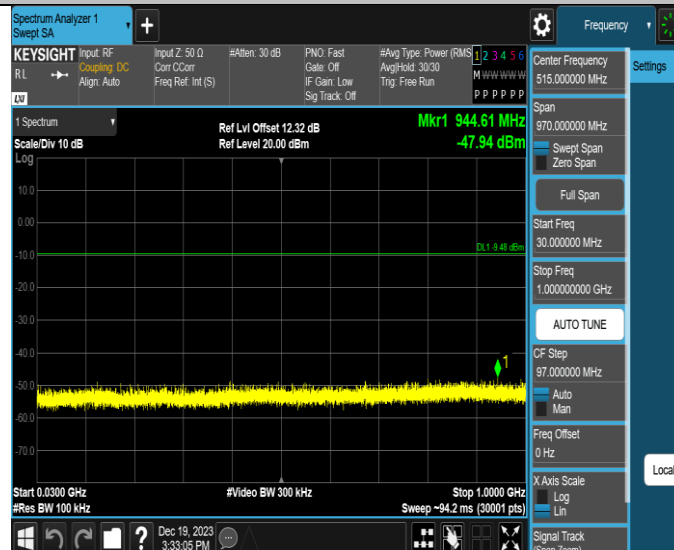
DH5_Ant1_2480_1000-26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



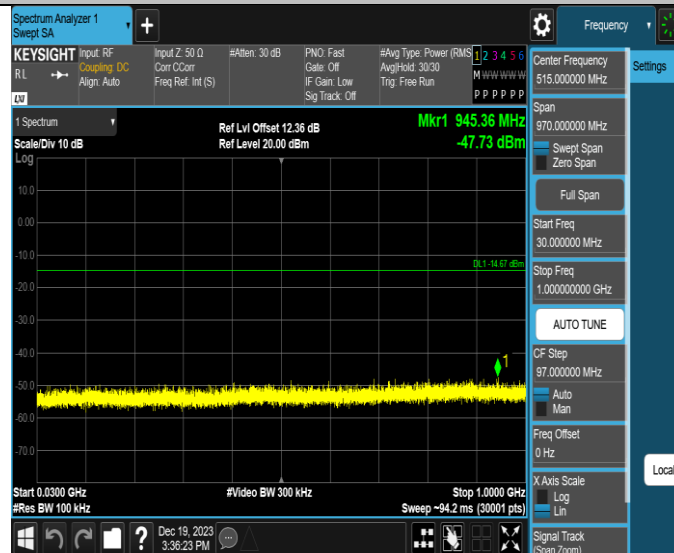
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



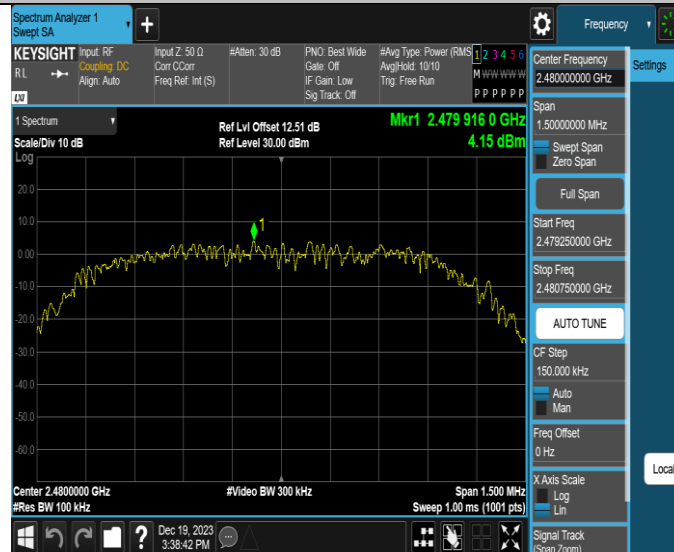
3DH5_Ant1_2441_30~1000



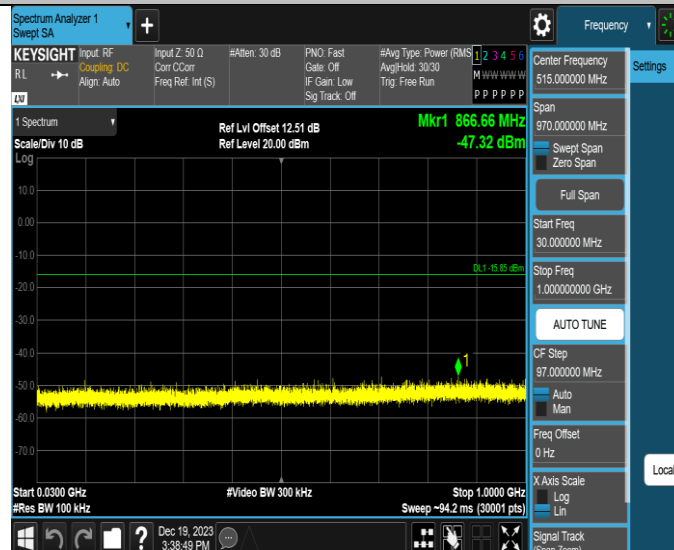
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix A.7: Test Results of Radiated Spurious Emissions

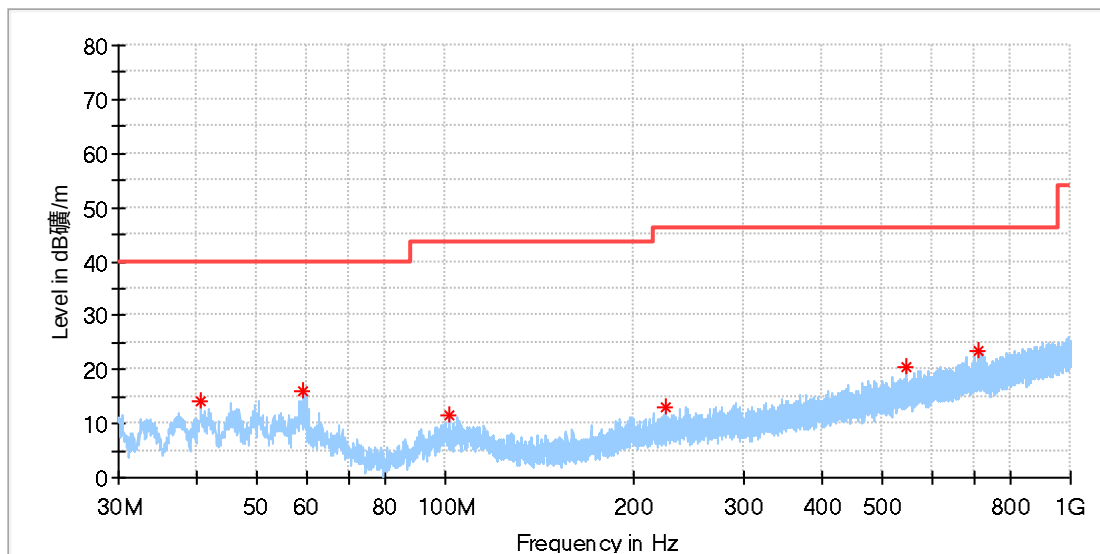
Note:

- 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:	Lenovo YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

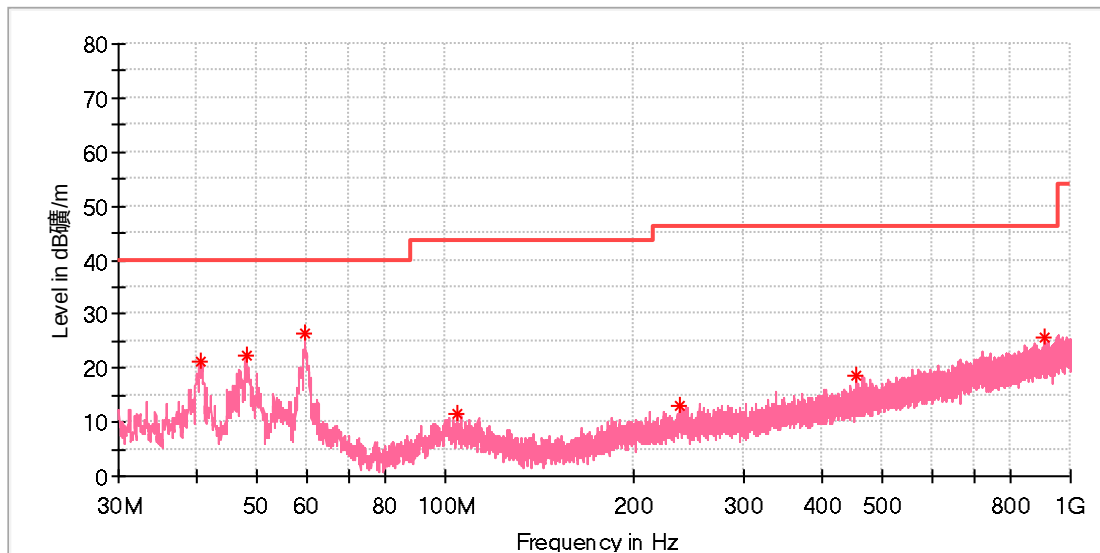


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.595385	13.98	40.00	26.02	100.0	H	239.0	-20.3
59.323846	16.05	40.00	23.95	100.0	H	180.0	-19.2
101.220385	11.61	43.50	31.89	100.0	H	16.0	-19.3
224.970000	12.87	46.00	33.13	100.0	H	130.0	-18.7
546.375769	20.48	46.00	25.52	100.0	H	79.0	-11.3
711.536923	23.52	46.00	22.48	100.0	H	155.0	-8.2

EUT Information

EUT Name:	Lenovo YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

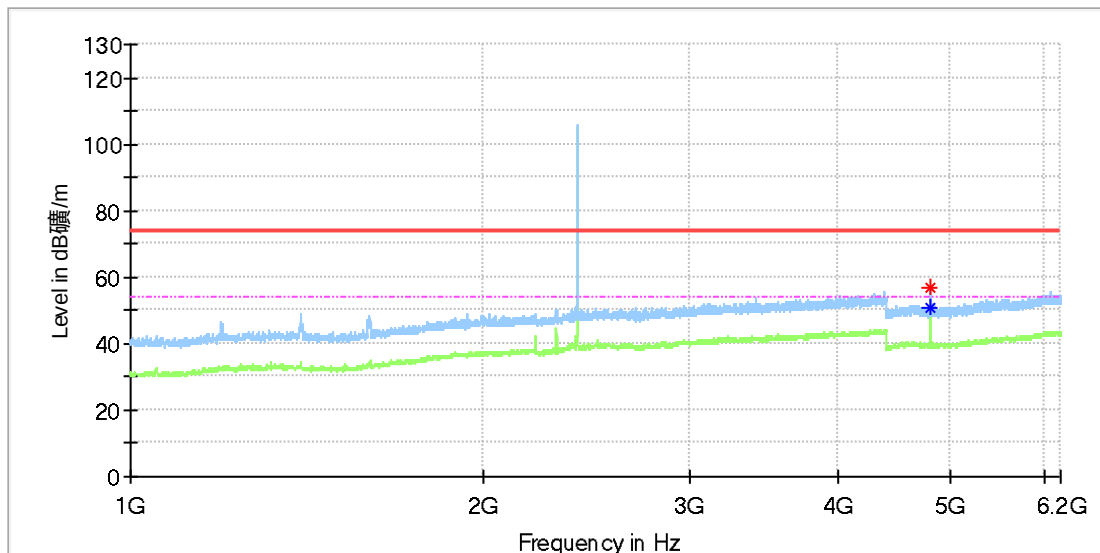
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.520769	21.18	40.00	18.82	100.0	V	318.0	-20.3
47.945000	22.16	40.00	17.84	100.0	V	171.0	-18.7
59.696923	26.33	40.00	13.67	100.0	V	0.0	-19.3
104.540769	11.44	43.50	32.06	100.0	V	139.0	-19.1
237.206923	13.18	46.00	32.82	100.0	V	139.0	-18.1
454.375000	18.43	46.00	27.57	100.0	V	343.0	-13.2
906.656154	25.74	46.00	20.26	100.0	V	15.0	-5.4

1GHz - 18GHz (Left earbud)

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

EUT Information

EUT Name:	Lenovo YOGA True Wireless Stereo Earbuds
Model:	LT310
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168455159/A003622699-014
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

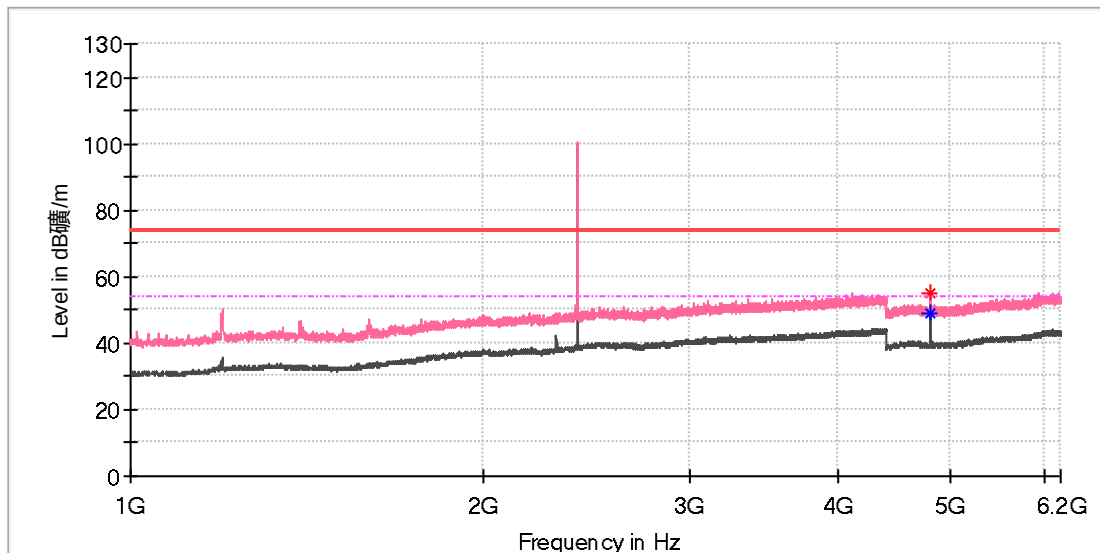
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	56.66	---	74.00	17.34	150.0	H	254.0	11.8
4804.000000	---	50.75	54.00	3.25	150.0	H	236.0	11.8

Final Result

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

EUT Information

EUT Name: Lenovo YOGA True Wireless Stereo Earbuds
Model: LT310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168455159/A003622699-014
Test Voltage: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

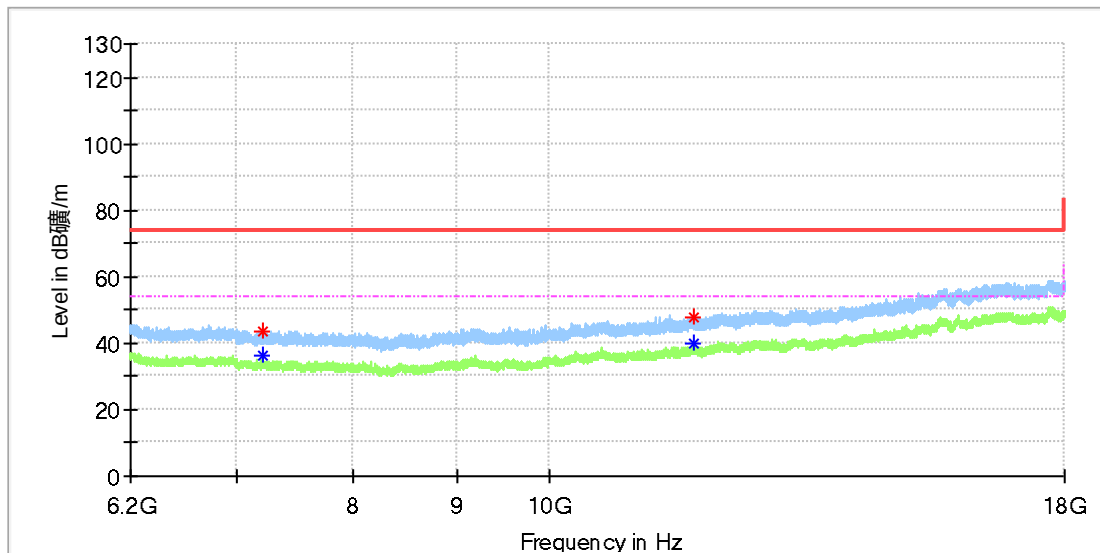
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	54.99	---	74.00	19.01	150.0	V	178.0	11.8
4804.000000	---	48.90	54.00	5.10	150.0	V	178.0	11.8

Final Result

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

EUT Information

EUT Name: Lenovo YOGA True Wireless Stereo Earbuds
Model: LT310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168455159/A003622699-014
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	43.30	---	74.00	30.70	150.0	H	197.0	8.8
7206.441667	---	36.04	54.00	17.96	150.0	H	197.0	8.8
11790.250000	47.98	---	74.00	26.02	150.0	H	65.0	13.4
11798.608333	---	39.64	54.00	14.36	150.0	H	262.0	13.4

Final_Result

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