

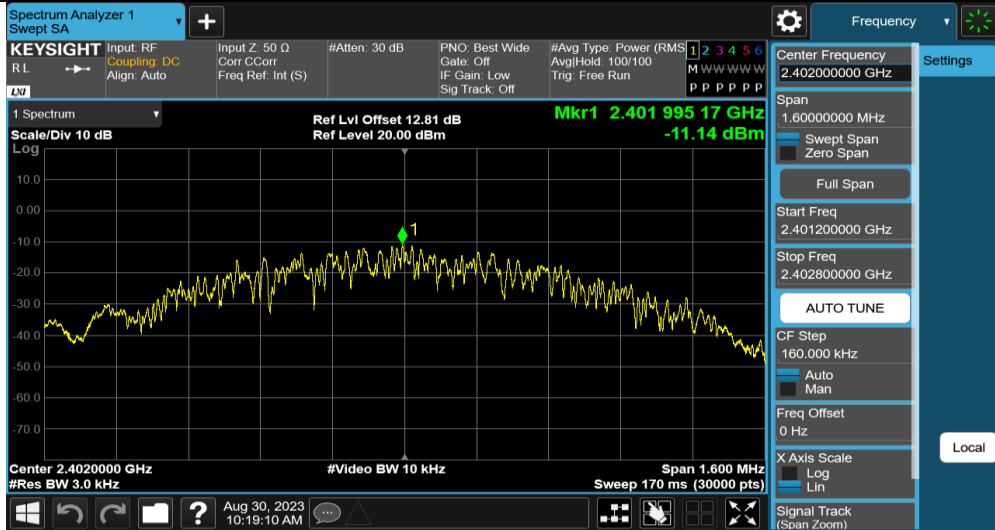
Appendix A: Test Results of Bluetooth Low Energy

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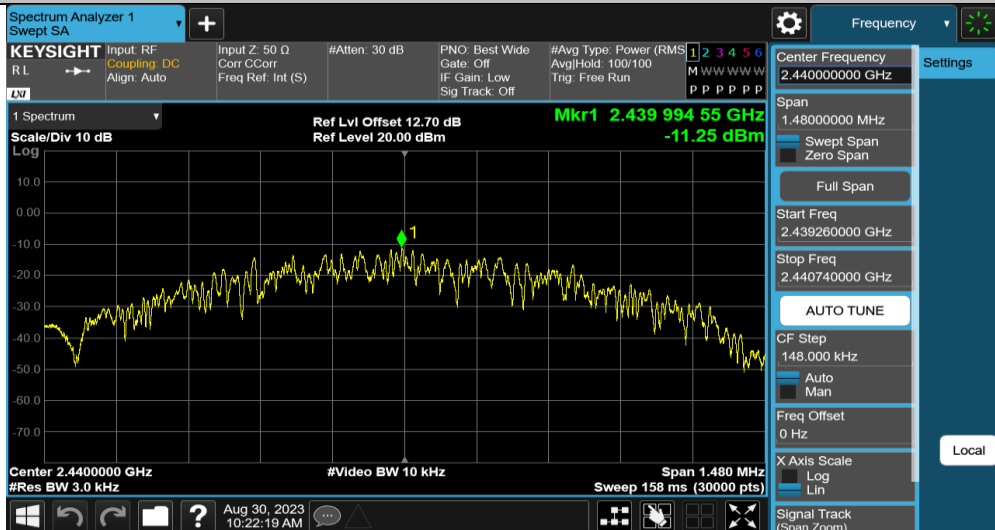
Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.14	≤8.00	PASS
		2440	-11.25	≤8.00	PASS
		2480	-11.29	≤8.00	PASS

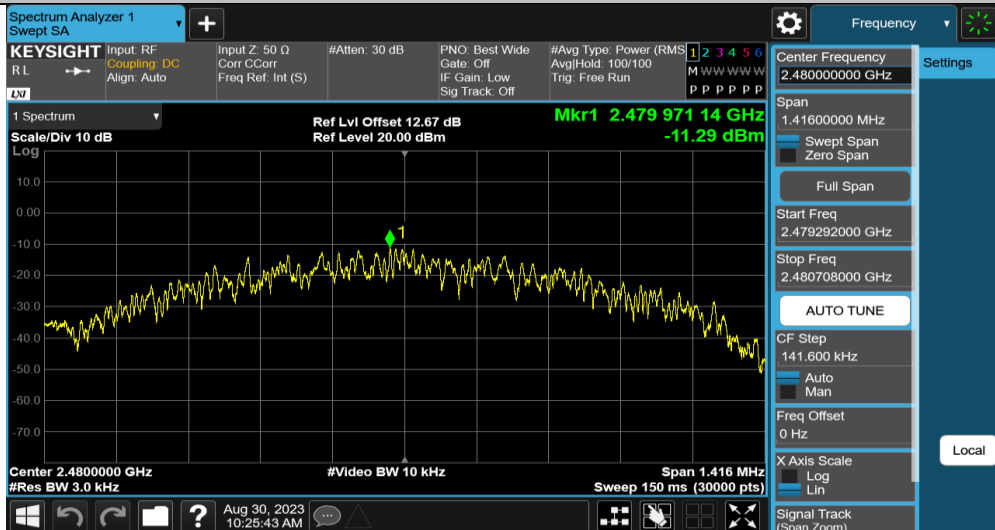
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.800	2401.548	2402.348	0.5	PASS
		2440	0.740	2439.600	2440.340	0.5	PASS
		2480	0.708	2479.684	2480.392	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.4760	2401.2073	2402.6833	---	PASS
		2440	1.3713	2439.2420	2440.6133	---	PASS
		2480	1.2226	2479.3332	2480.5558	---	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



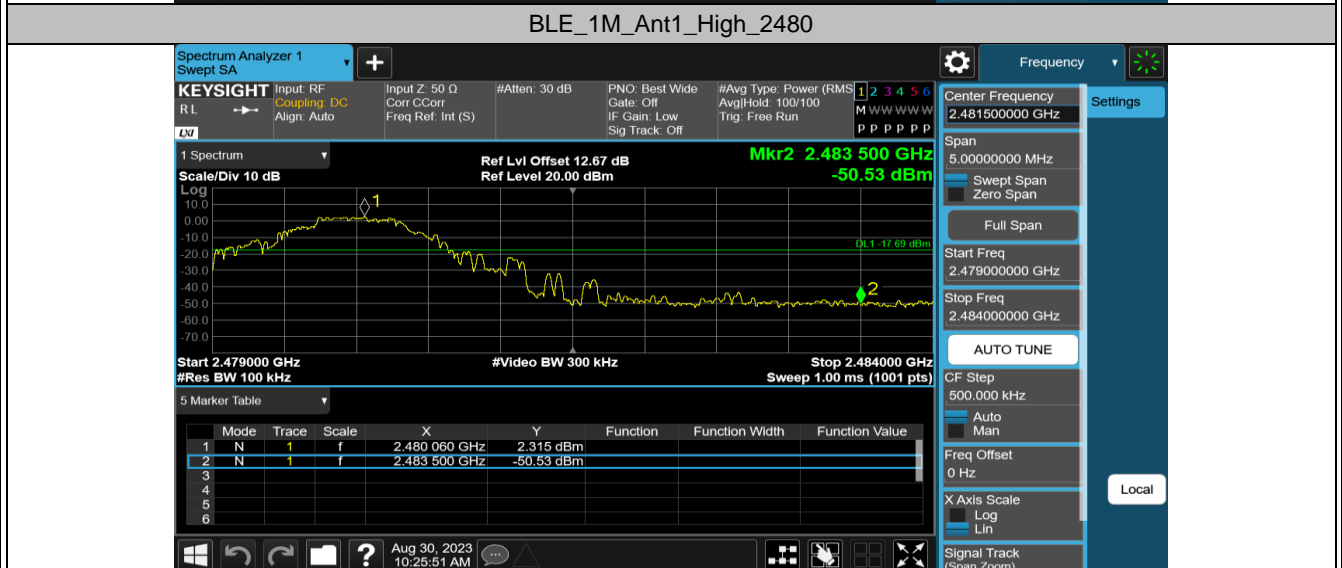
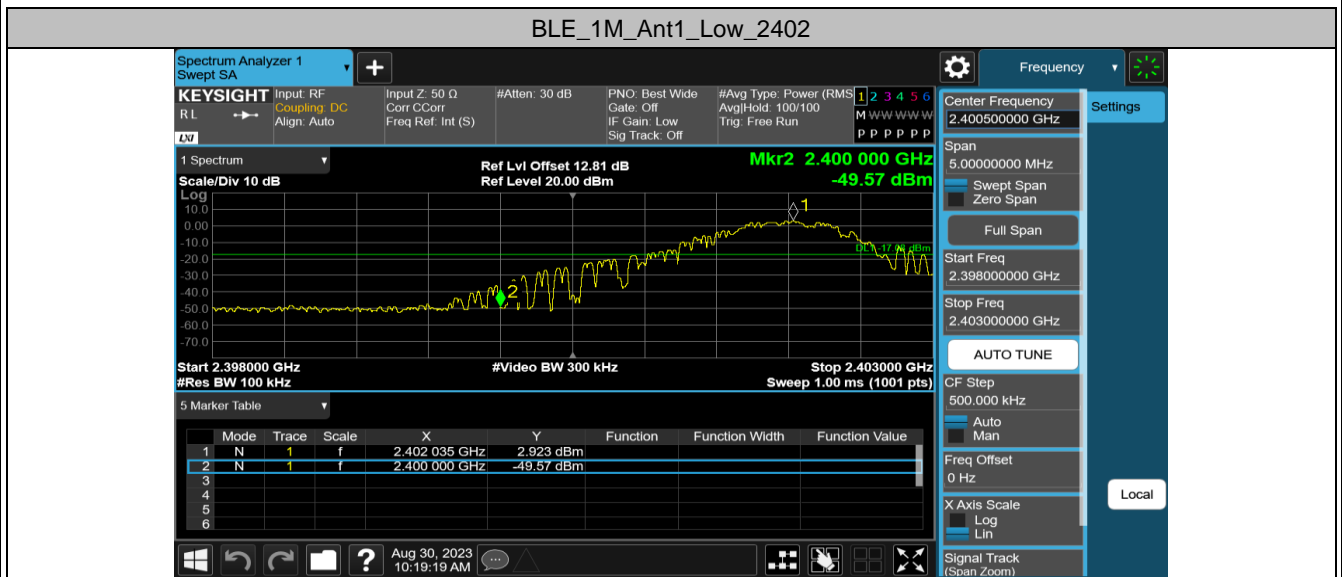
BLE_1M_Ant1_2480



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

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.923	-49.57	≤-17.08	PASS
		High	2480	2.315	-50.53	≤-17.69	PASS



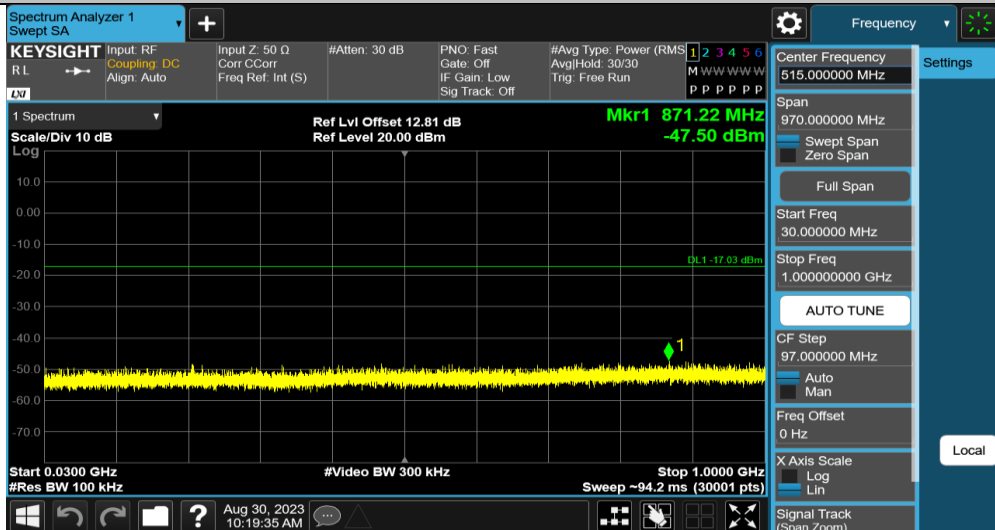
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-47.5	≤-17.03	PASS
			1000~26500	2.97	-34.68	≤-17.03	PASS
		2440	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-47.38	≤-17.5	PASS
			1000~26500	2.50	-35.46	≤-17.5	PASS
		2480	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-46.94	≤-17.67	PASS
			1000~26500	2.33	-34.92	≤-17.67	PASS

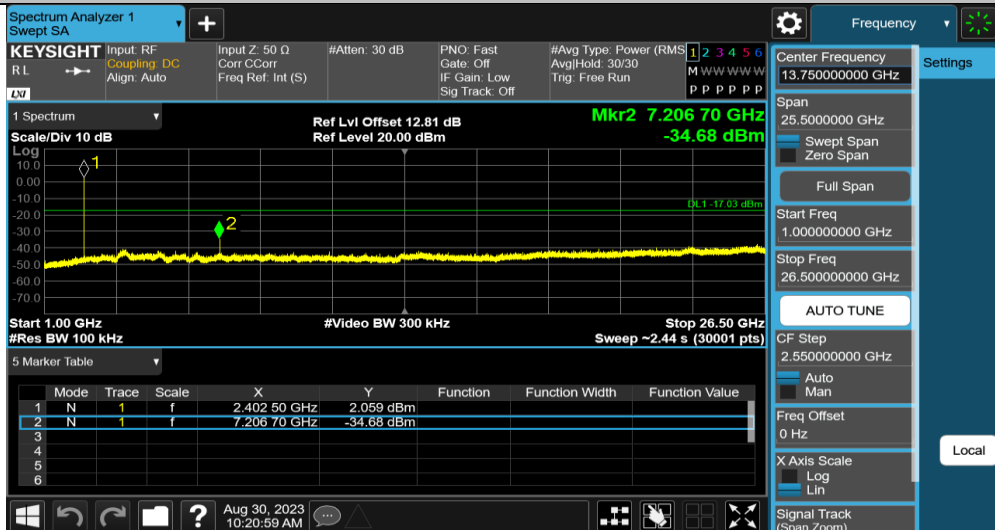
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



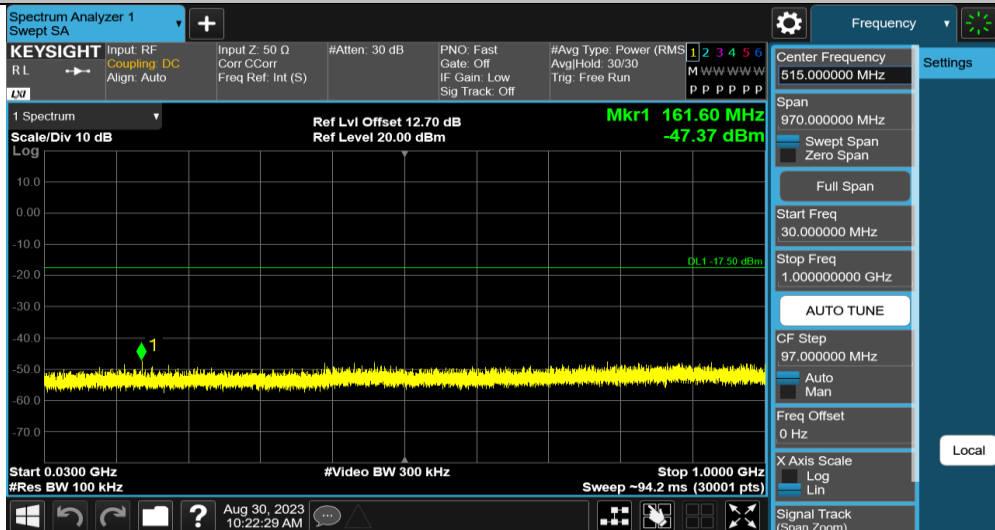
BLE_1M_Ant1_2402_1000~26500



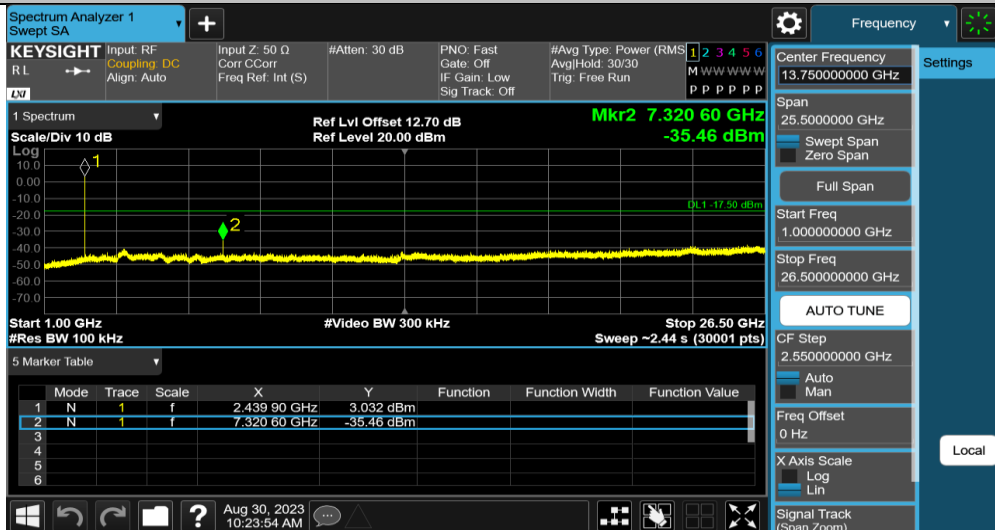
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



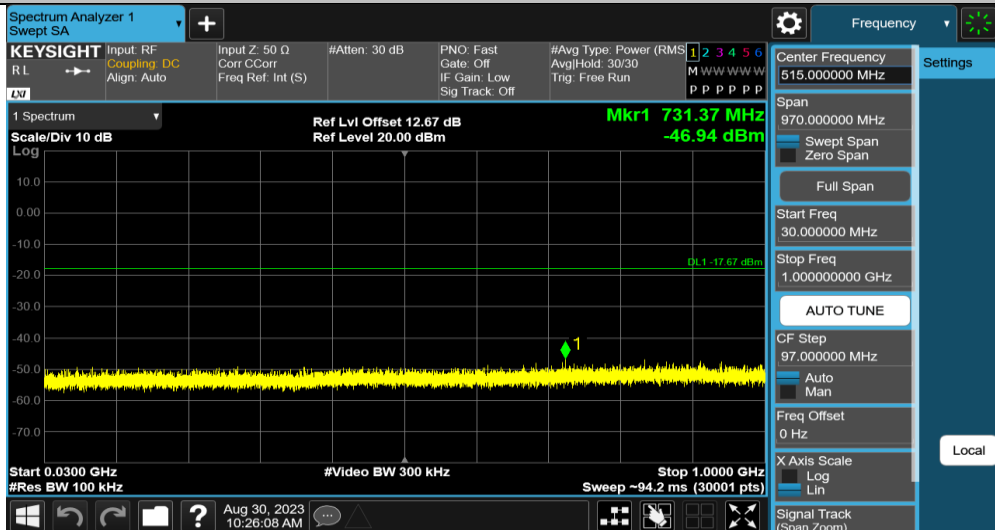
BLE_1M_Ant1_2440_1000~26500



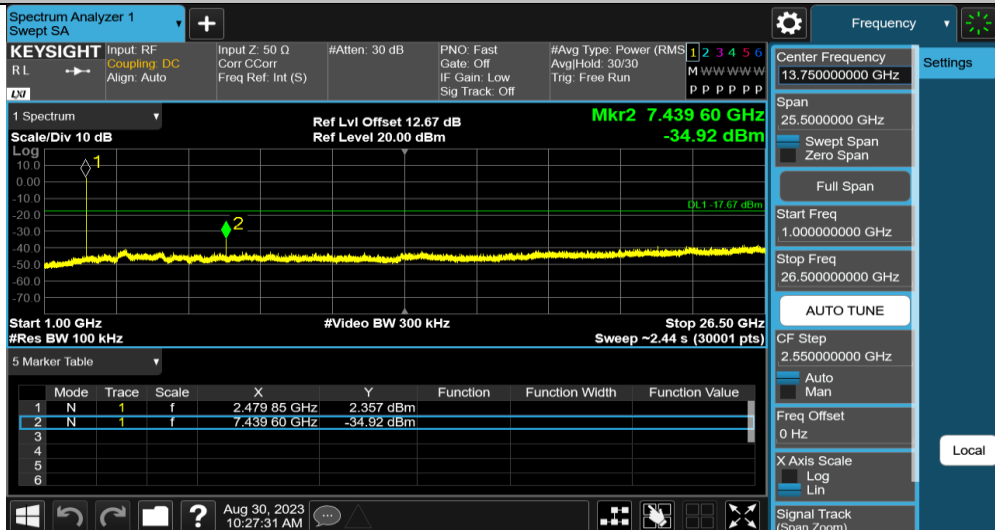
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix A.5: Test Results of Radiated Spurious Emissions

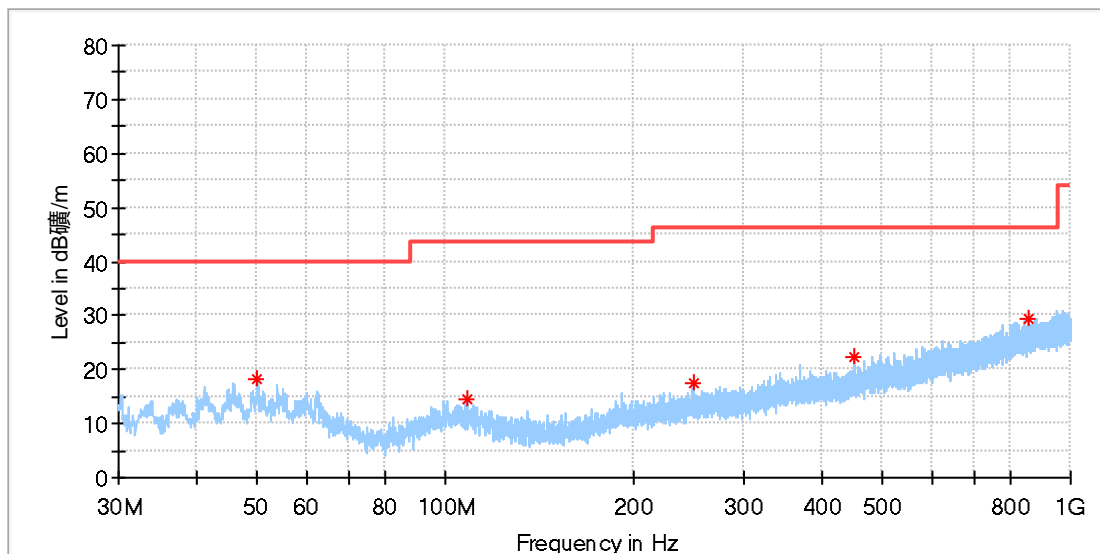
Note:

- 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 above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	thinkplus WL300 Bluetooth Silent Mouse
Model:	MS-358BT
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168440443/A003549531-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	RSS-247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

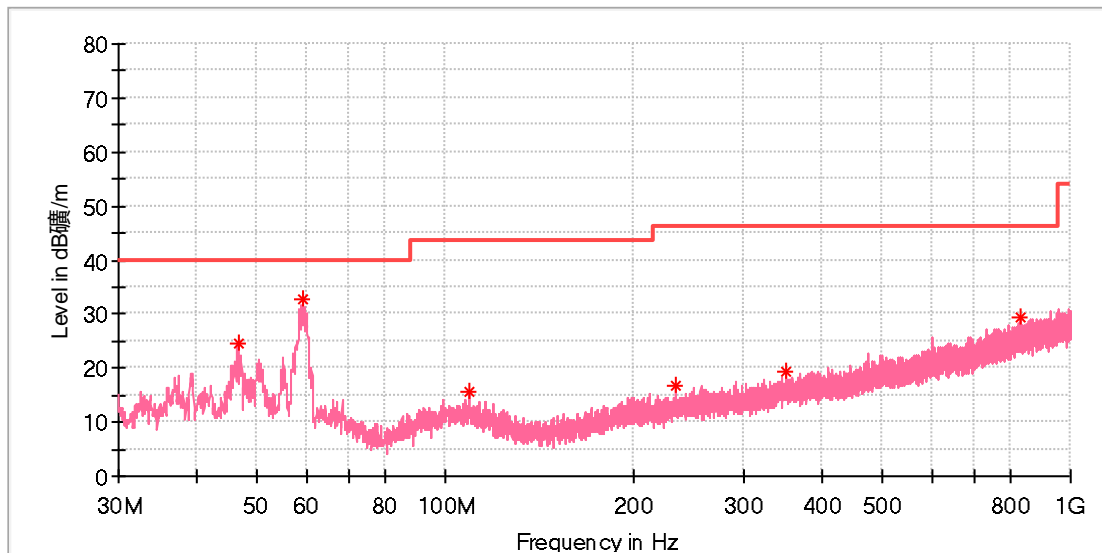
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.079000	18.30	40.00	21.70	100.0	H	152.0	-18.3
108.667000	14.40	43.50	29.10	100.0	H	240.0	-19.0
250.190000	17.31	46.00	28.69	100.0	H	337.0	-17.4
450.883000	22.44	46.00	23.56	100.0	H	217.0	-12.9
859.156000	29.37	46.00	16.63	100.0	H	287.0	-5.4

Final Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-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)
46.587000	24.68	40.00	15.32	100.0	V	231.0	-18.6
59.148500	32.60	40.00	7.40	100.0	V	307.0	-18.9
109.103500	15.67	43.50	27.83	100.0	V	46.0	-19.0
234.233500	16.84	46.00	29.16	100.0	V	139.0	-17.9
350.924500	19.35	46.00	26.65	100.0	V	217.0	-14.8
830.298500	29.29	46.00	16.71	100.0	V	20.0	-5.8

Final_Result

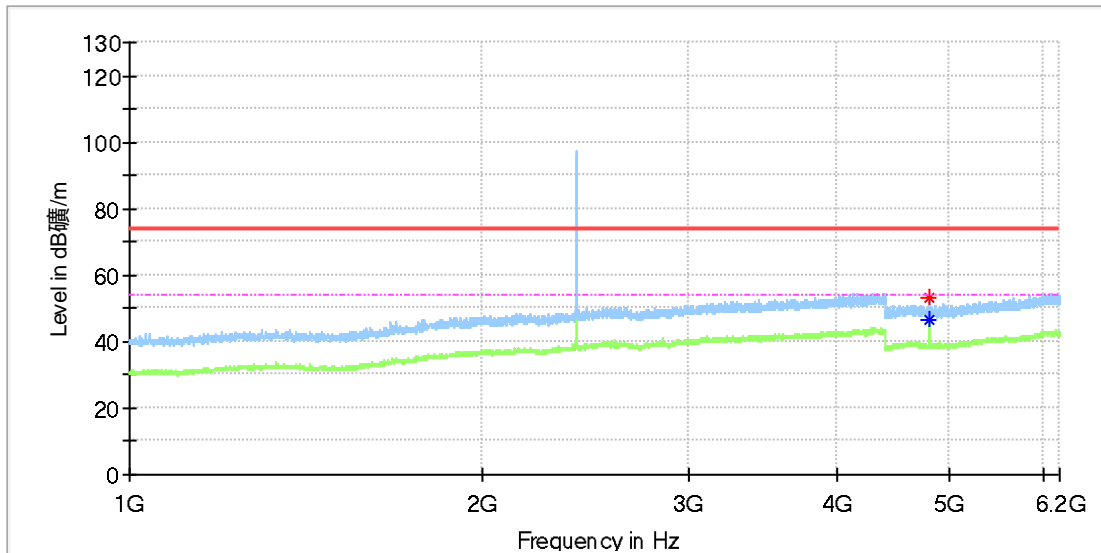
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

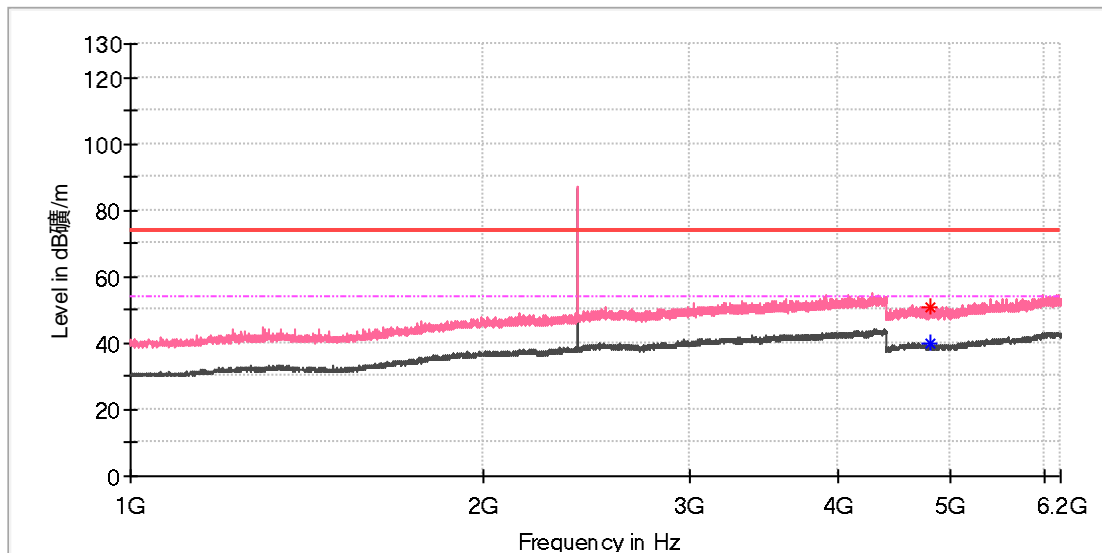
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	46.77	54.00	7.23	150.0	H	115.0	11.8
4804.500000	53.12	---	74.00	20.88	150.0	H	120.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

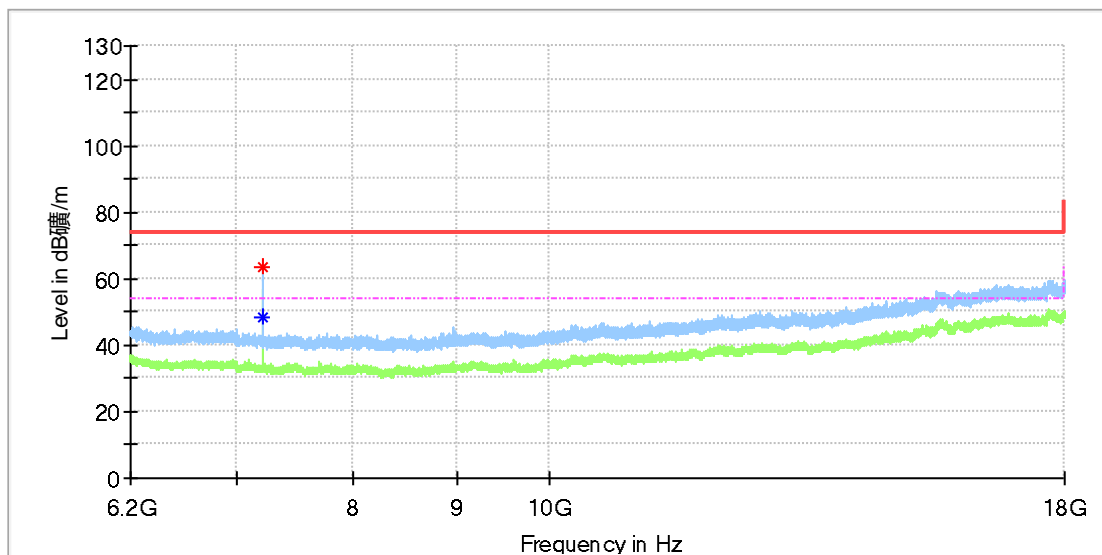
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	39.82	54.00	14.18	150.0	V	83.0	11.8
4807.000000	51.07	---	74.00	22.93	150.0	V	37.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

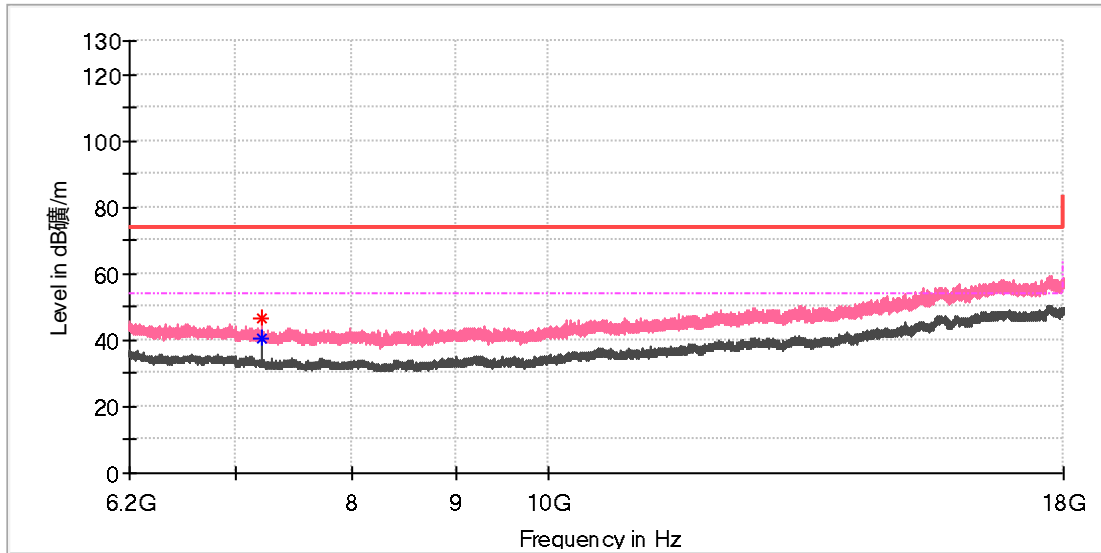
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.983333	---	48.49	54.00	5.51	150.0	H	70.0	8.8
7204.966667	63.62	---	74.00	10.38	150.0	H	70.0	8.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

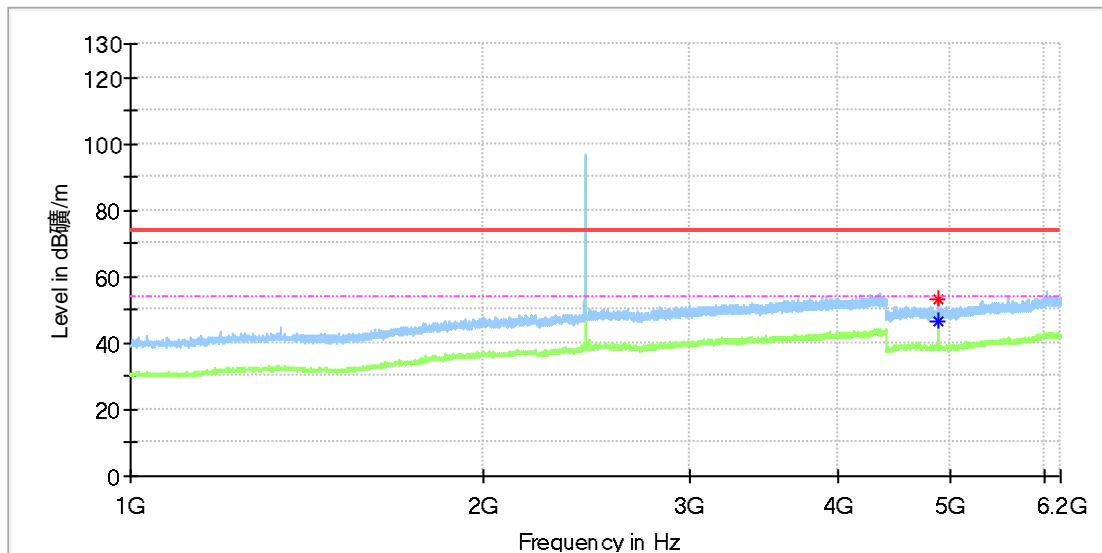
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	40.30	54.00	13.70	150.0	V	168.0	8.8
7206.933333	46.67	---	74.00	27.33	150.0	V	168.0	8.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

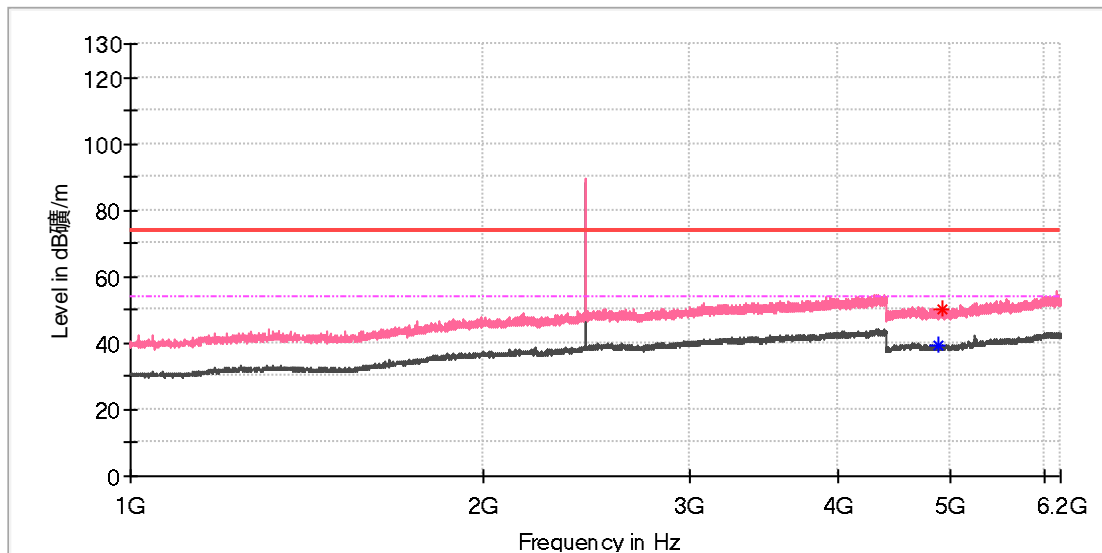
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	52.99	---	74.00	21.01	150.0	H	174.0	11.8
4880.000000	---	46.56	54.00	7.44	150.0	H	142.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

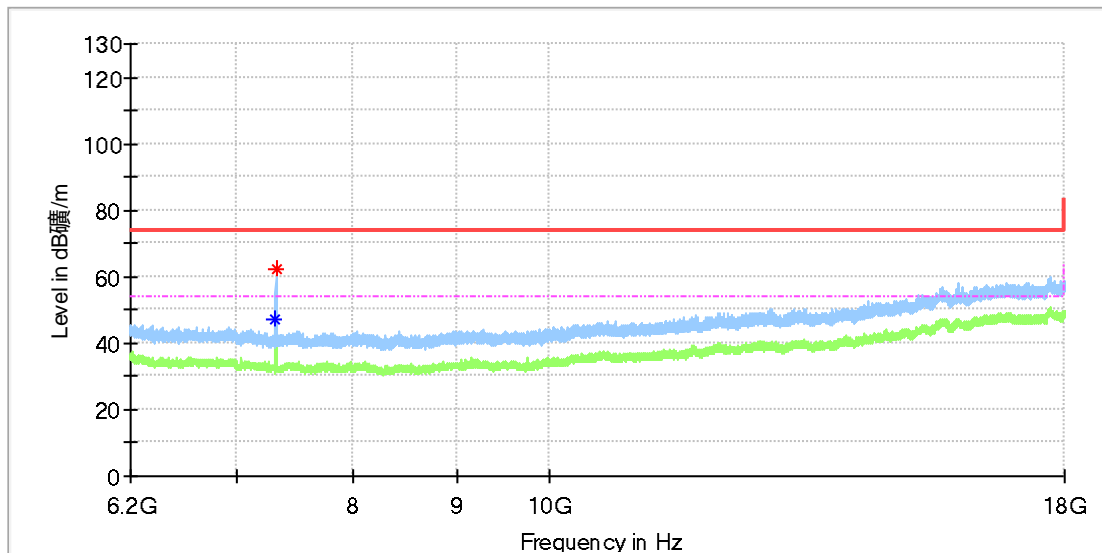
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4868.500000	---	39.17	54.00	14.83	150.0	V	19.0	11.8
4912.000000	50.47	---	74.00	23.53	150.0	V	184.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

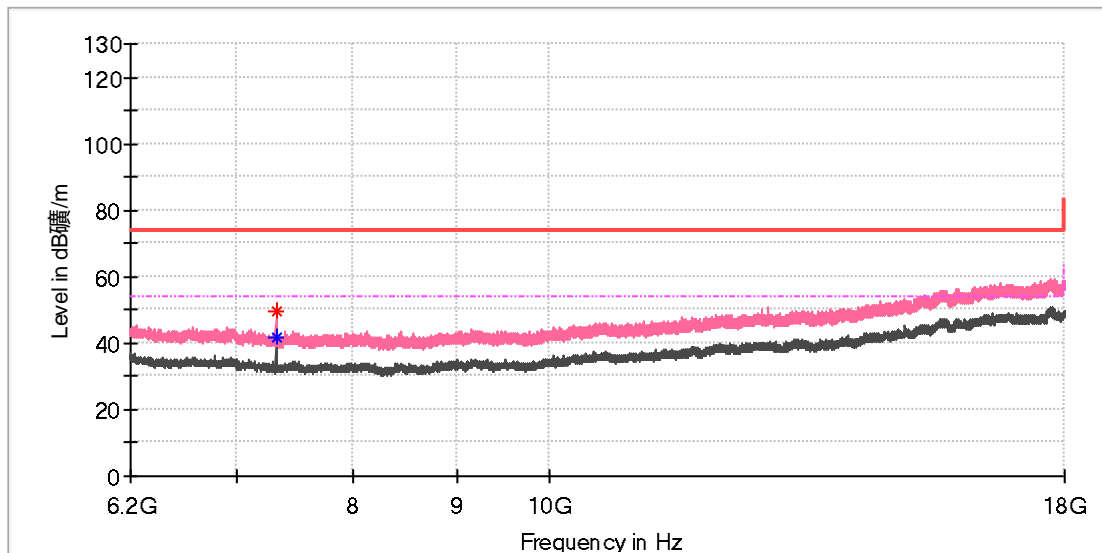
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.050000	---	47.45	54.00	6.55	150.0	H	35.0	8.2
7319.033333	62.08	---	74.00	11.92	150.0	H	35.0	8.2

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

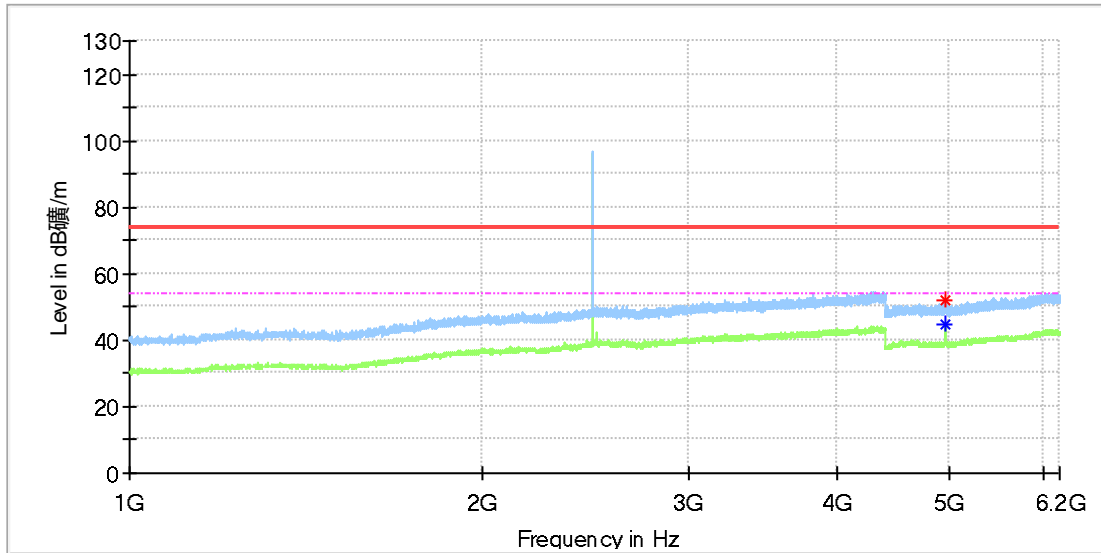
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	42.02	54.00	11.98	150.0	V	0.0	8.2
7320.508333	49.55	---	74.00	24.45	150.0	V	0.0	8.2

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

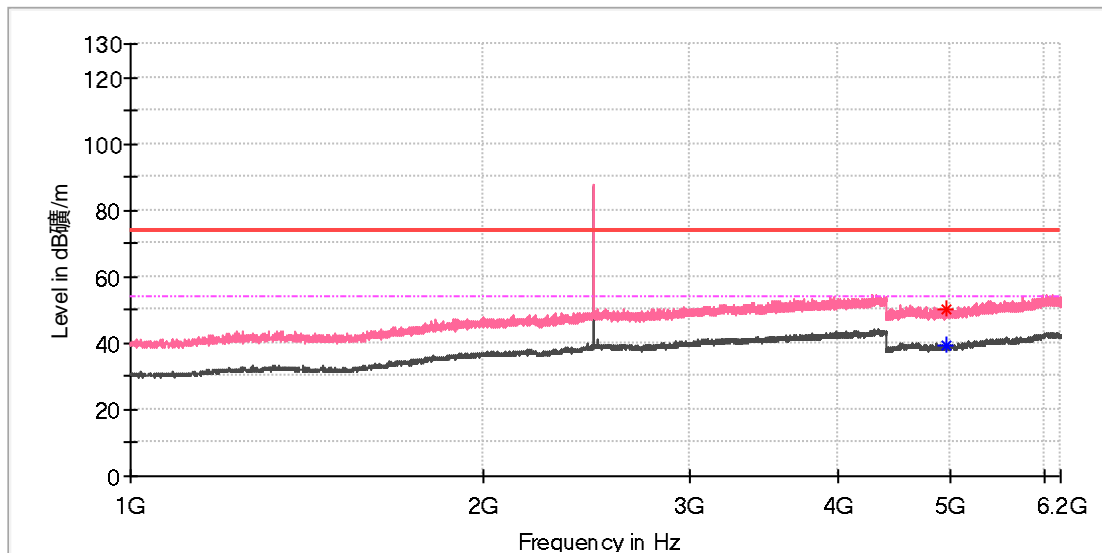
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	44.94	54.00	9.06	150.0	H	166.0	11.8
4960.000000	52.12	---	74.00	21.88	150.0	H	179.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

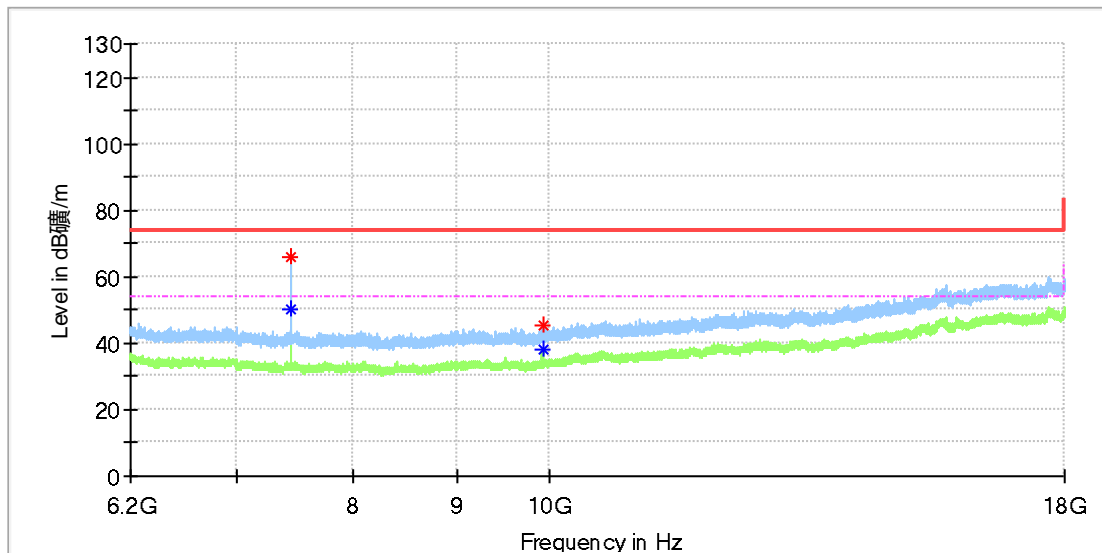
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.000000	50.13	---	74.00	23.87	150.0	V	1.0	11.8
4959.500000	---	39.49	54.00	14.51	150.0	V	216.0	11.8

Final_Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

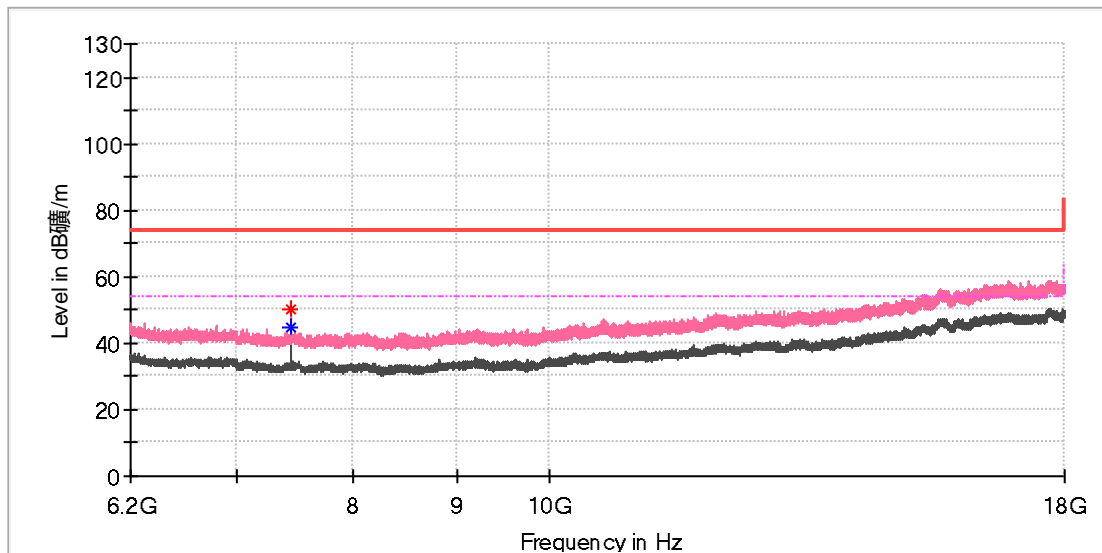
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	65.63	---	74.00	8.37	150.0	H	72.0	8.4
7441.458333	---	50.09	54.00	3.91	150.0	H	48.0	8.4
9920.441667	---	38.17	54.00	15.83	150.0	H	35.0	10.8
9920.933333	45.13	---	74.00	28.87	150.0	H	119.0	10.8

Final Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-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)
7440.475000	---	44.65	54.00	9.35	150.0	V	321.0	8.4
7440.475000	50.20	---	74.00	23.80	150.0	V	321.0	8.4

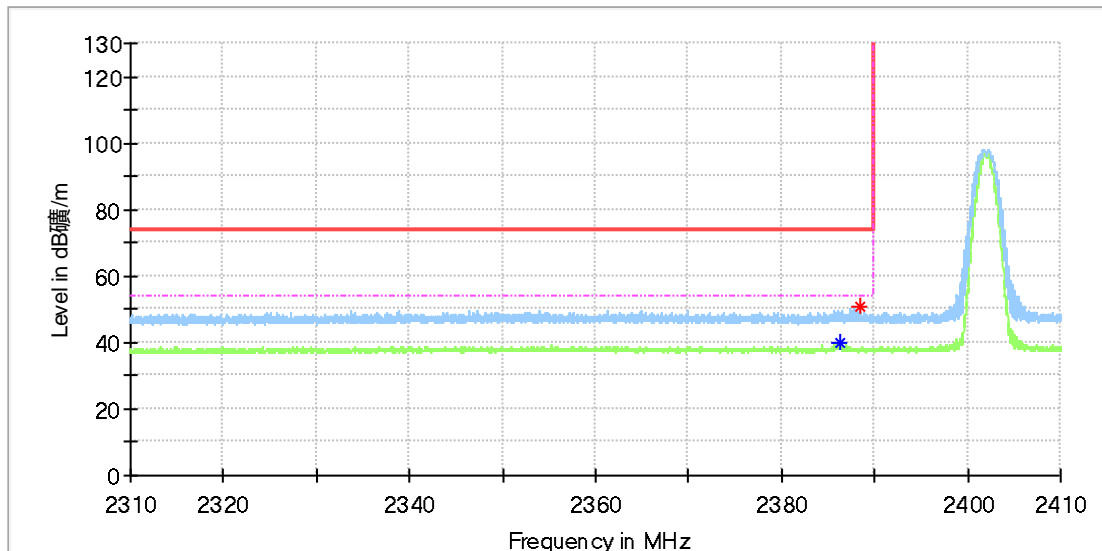
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	thinkplus WL300 Bluetooth Silent Mouse
Model:	MS-358BT
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168440443/A003549531-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	RSS-247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

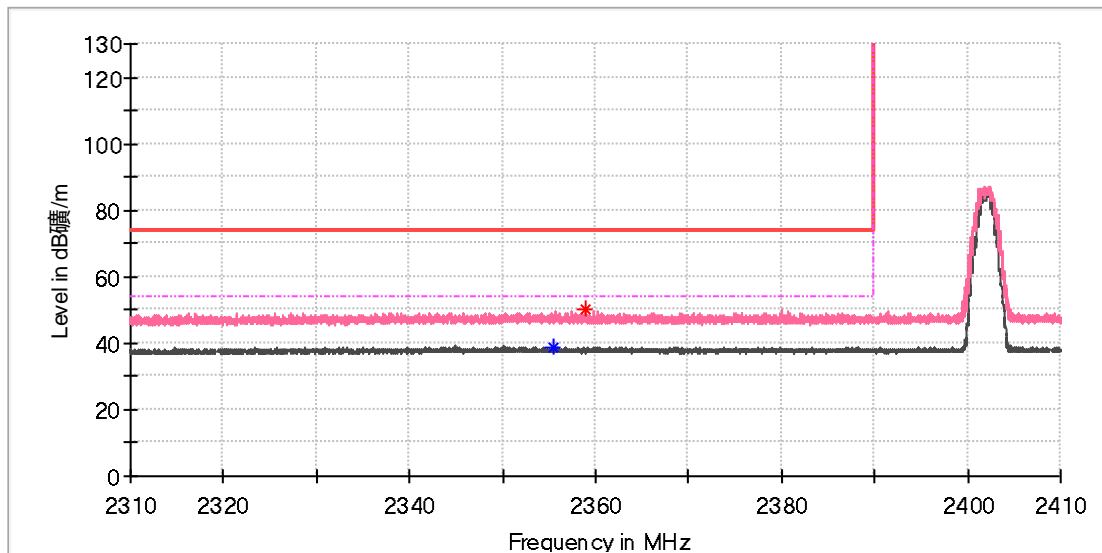
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.264706	---	40.06	54.00	13.94	150.0	H	248.0	7.0
2388.352941	50.85	---	74.00	23.15	150.0	H	248.0	7.0

Final Result

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

EUT Information

EUT Name: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

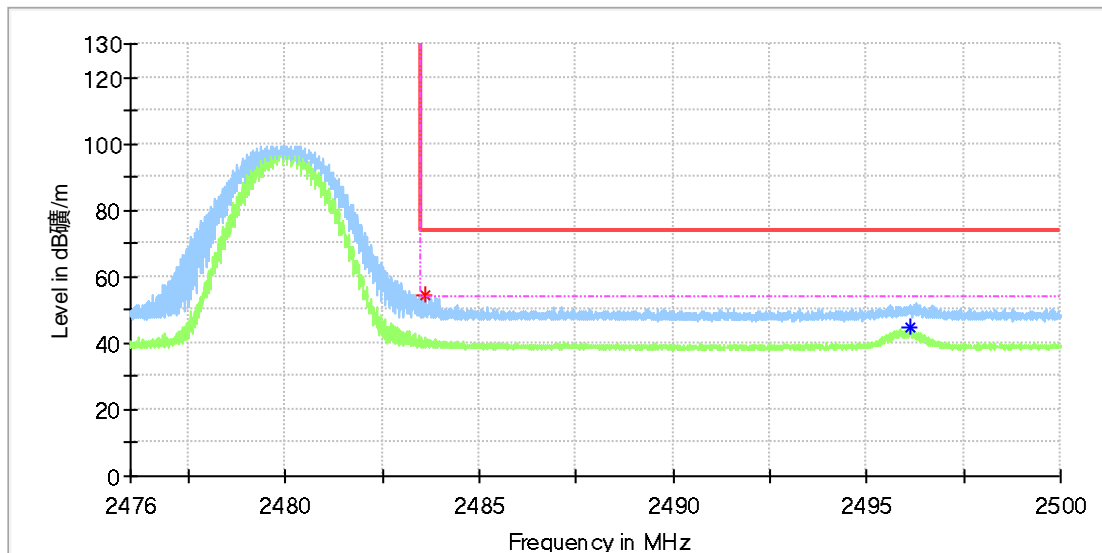
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2355.529412	---	38.75	54.00	15.25	150.0	V	16.0	6.9
2358.897059	50.42	---	74.00	23.58	150.0	V	24.0	6.9

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: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

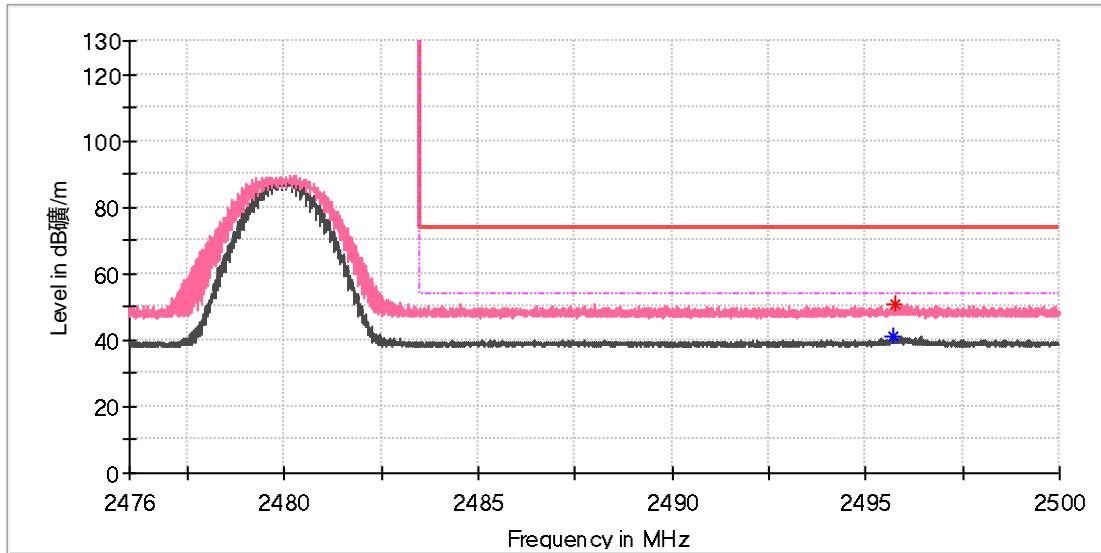
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.612941	54.22	---	74.00	19.78	150.0	H	306.0	7.4
2496.121177	---	44.55	54.00	9.45	150.0	H	92.0	7.4

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: thinkplus WL300 Bluetooth Silent Mouse
 Model: MS-358BT
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168440443/A003549531-001
 Test Voltage: Battery
 Remark: Temp 23 Humi:56%
 Test Standard: RSS-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)
2495.701177	---	41.05	54.00	12.95	150.0	V	270.0	7.4
2495.761177	50.59	---	74.00	23.41	150.0	V	35.0	7.4

Final_Result

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