

Appendix B: Test Results

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

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.52	≤8	PASS
		2440	-18.99	≤8	PASS
		2480	-20.22	≤8	PASS



Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.732	2401.636	2402.368	0.5	PASS
		2440	0.720	2439.632	2440.352	0.5	PASS
		2480	0.696	2479.656	2480.352	0.5	PASS



Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1792	2401.416	2402.595	---	PASS
		2440	1.1788	2439.407	2440.586	---	PASS
		2480	1.1832	2479.401	2480.585	---	PASS



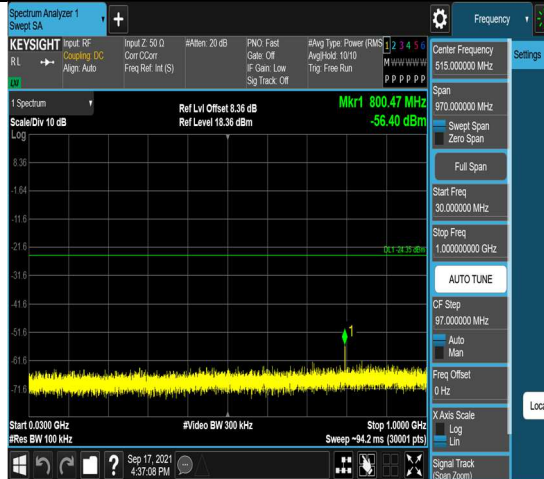
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-56.4	≤-24.35	PASS
			1000~26500	-4.35	-39.74	≤-24.35	PASS
		2440	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-55.34	≤-24.72	PASS
			1000~26500	-4.72	-40.53	≤-24.72	PASS
		2480	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-54.64	≤-25.8	PASS
			1000~26500	-5.80	-41.04	≤-25.8	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



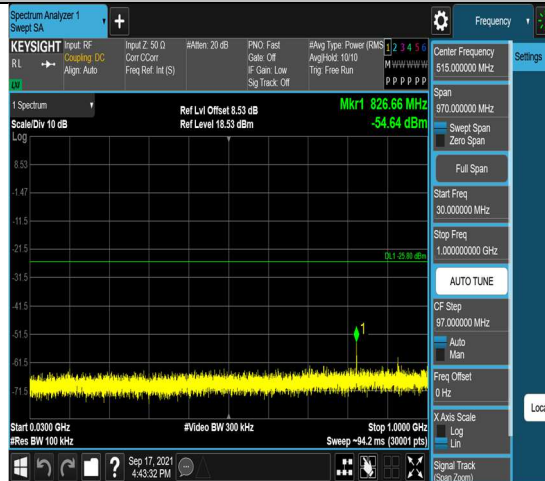
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0-Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Band Edge:

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.77	-41.03	≤-23.77	PASS
		High	2480	-5.52	-46.94	≤-25.52	PASS



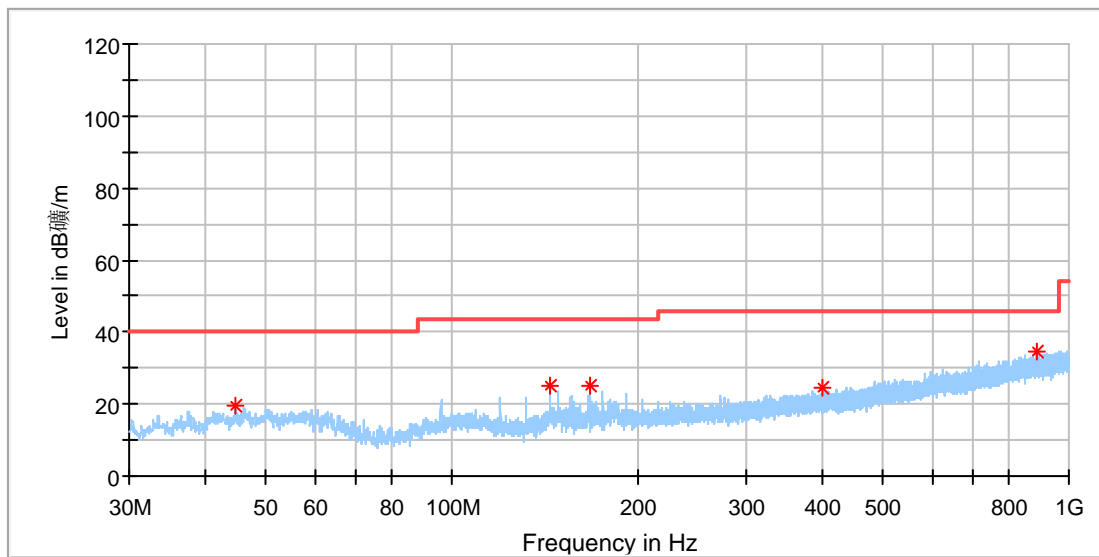
Appendix B.5: Test Results of Radiated Spurious Emissions

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:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_Low channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

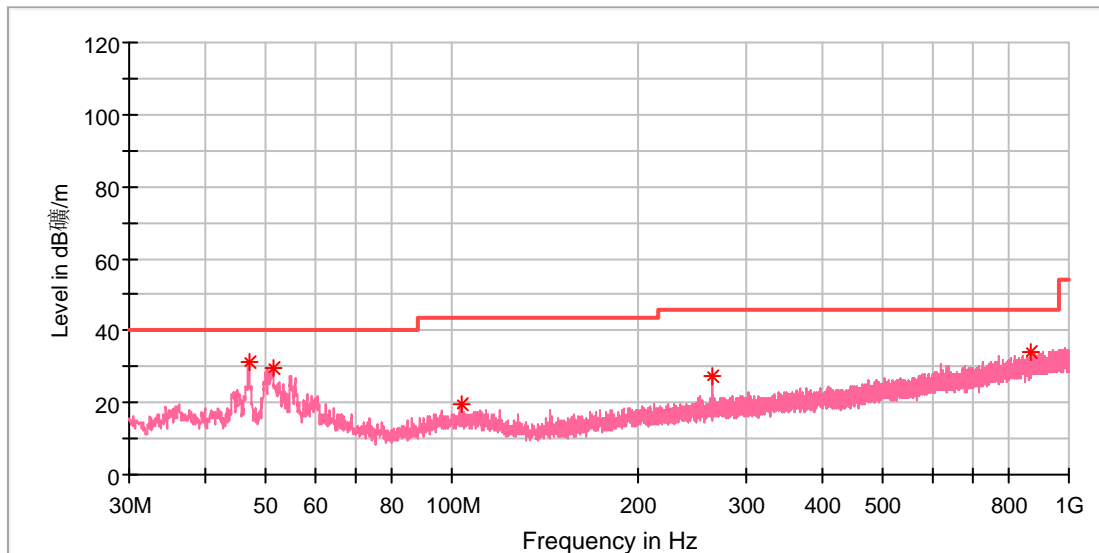


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.598500	19.40	40.00	20.60	100.0	H	269.0	-18.9
144.023500	25.17	43.50	18.33	100.0	H	47.0	-22.2
168.031000	25.04	43.50	18.46	100.0	H	159.0	-21.3
399.618500	24.37	46.00	21.63	100.0	H	278.0	-13.6
884.618500	34.47	46.00	11.53	100.0	H	86.0	-5.1

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Test Mode:	BLE_Low channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

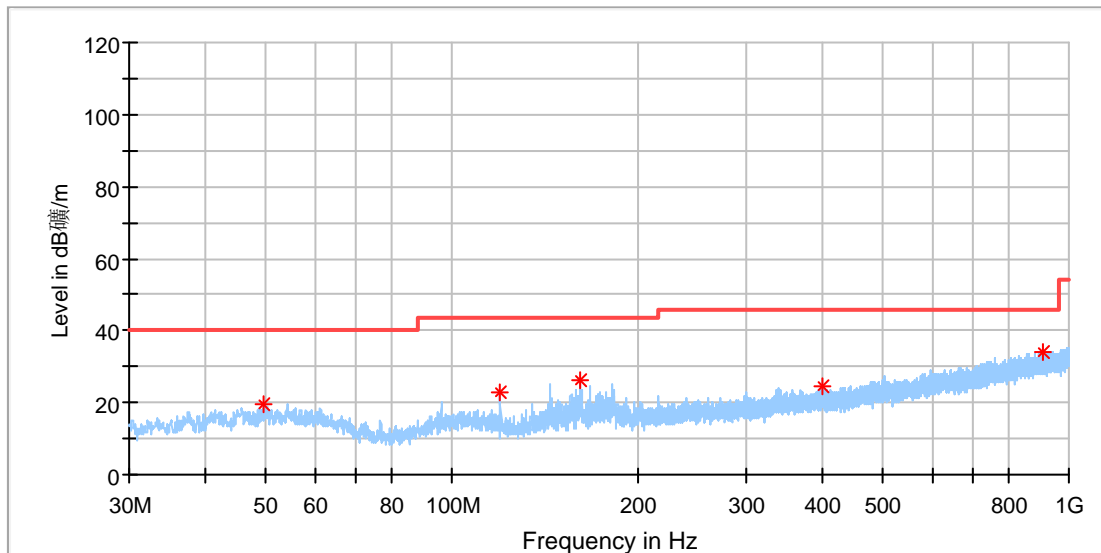


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.829500	31.51	40.00	8.49	100.0	V	5.0	-18.5
51.340000	29.71	40.00	10.29	100.0	V	324.0	-18.3
103.526000	19.28	43.50	24.22	100.0	V	5.0	-18.8
264.158000	27.39	46.00	18.61	100.0	V	165.0	-17.0
865.121500	34.27	46.00	11.73	100.0	V	38.0	-5.3

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Test Standard:	FCC 15.247
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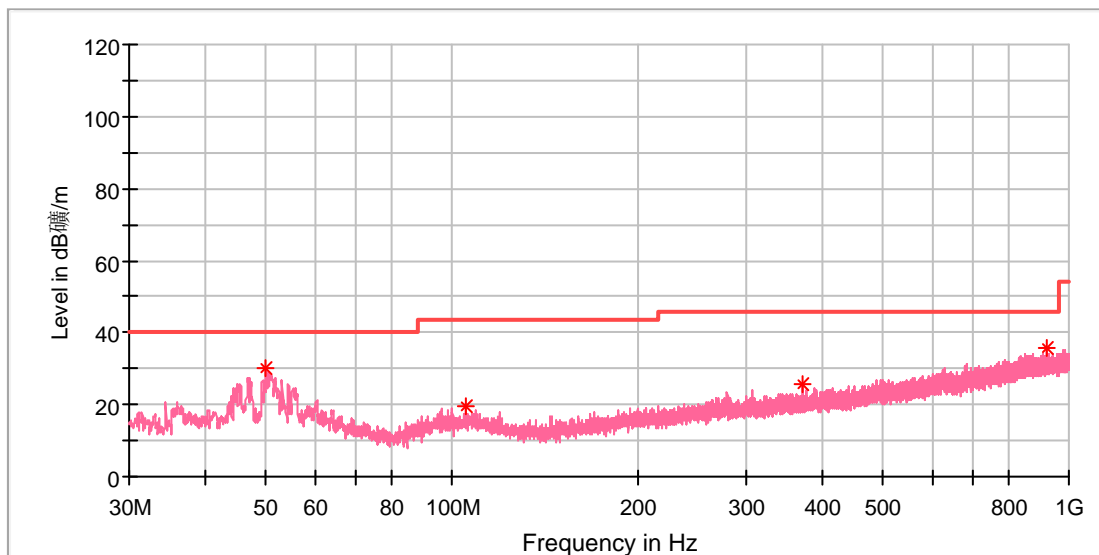


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.691000	19.69	40.00	20.31	100.0	H	0.0	-18.3
119.967500	22.65	43.50	20.85	100.0	H	22.0	-20.8
160.950000	26.11	43.50	17.39	100.0	H	179.0	-21.7
400.152000	24.62	46.00	21.38	100.0	H	294.0	-13.6
905.716000	34.30	46.00	11.70	100.0	H	187.0	-5.0

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Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical_Freqs

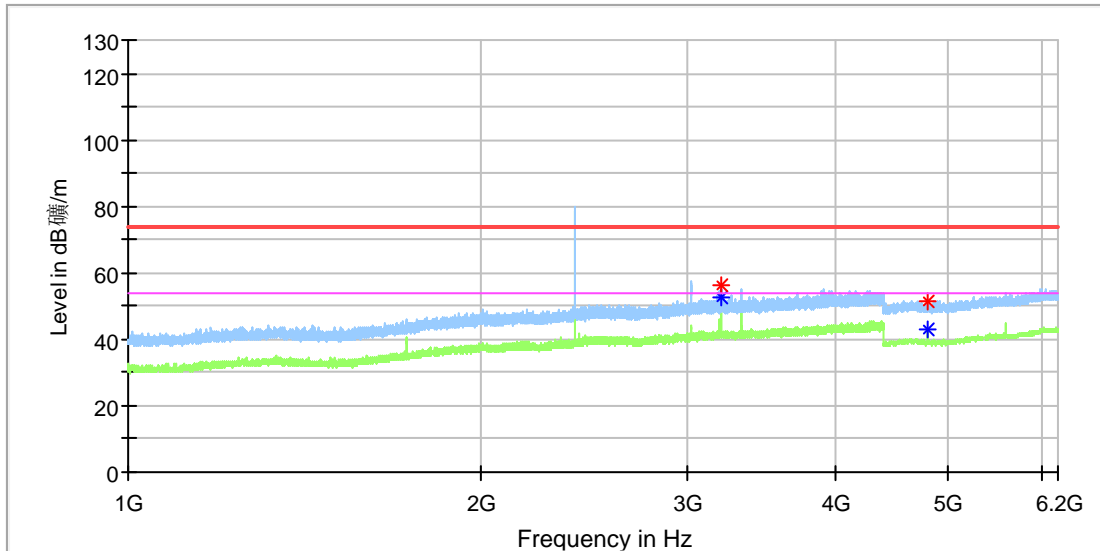
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	30.27	40.00	9.73	100.0	V	5.0	-18.3
105.369000	19.55	43.50	23.95	100.0	V	322.0	-18.8
369.839500	25.43	46.00	20.57	100.0	V	28.0	-14.4
924.049000	35.94	46.00	10.06	100.0	V	348.0	-4.8

1GHz-18GHz

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

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Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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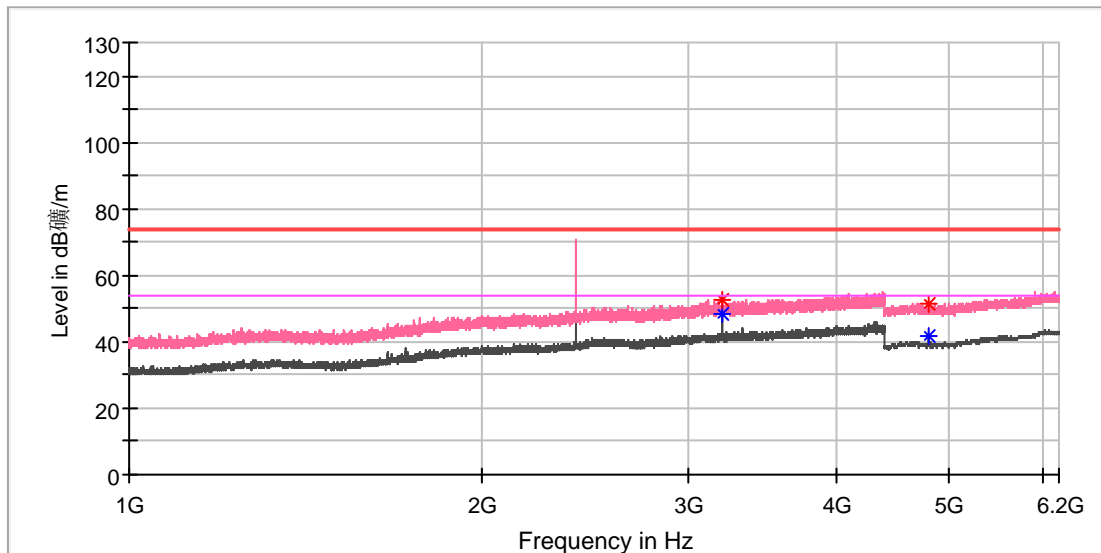


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3202.860000	56.28	---	74.00	17.72	100.0	H	303.0	8.6
3203.030000	---	52.56	54.00	1.44	100.0	H	89.0	8.6
4803.000000	51.49	---	74.00	22.51	100.0	H	1.0	11.8
4804.000000	---	42.98	54.00	11.02	100.0	H	355.0	11.8

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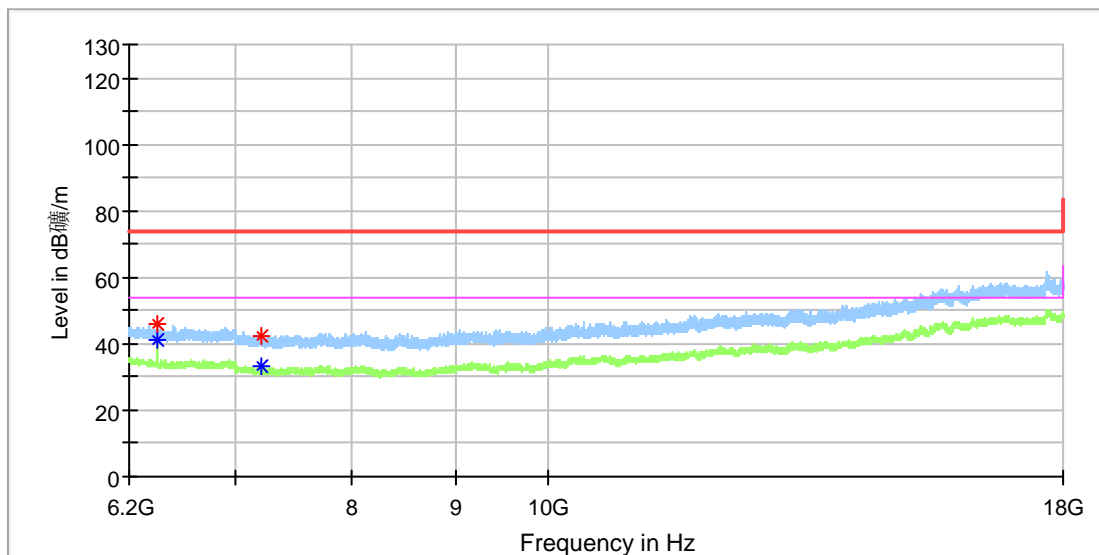


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3202.520000	52.85	---	74.00	21.15	100.0	V	166.0	8.6
3202.860000	---	48.09	54.00	5.91	100.0	V	296.0	8.6
4804.000000	---	41.91	54.00	12.09	100.0	V	249.0	11.8
4809.500000	51.21	---	74.00	22.79	100.0	V	2.0	11.8

EUT Information

EUT Name:	SELFIE STICK
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Test Mode:	BLE_Low channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

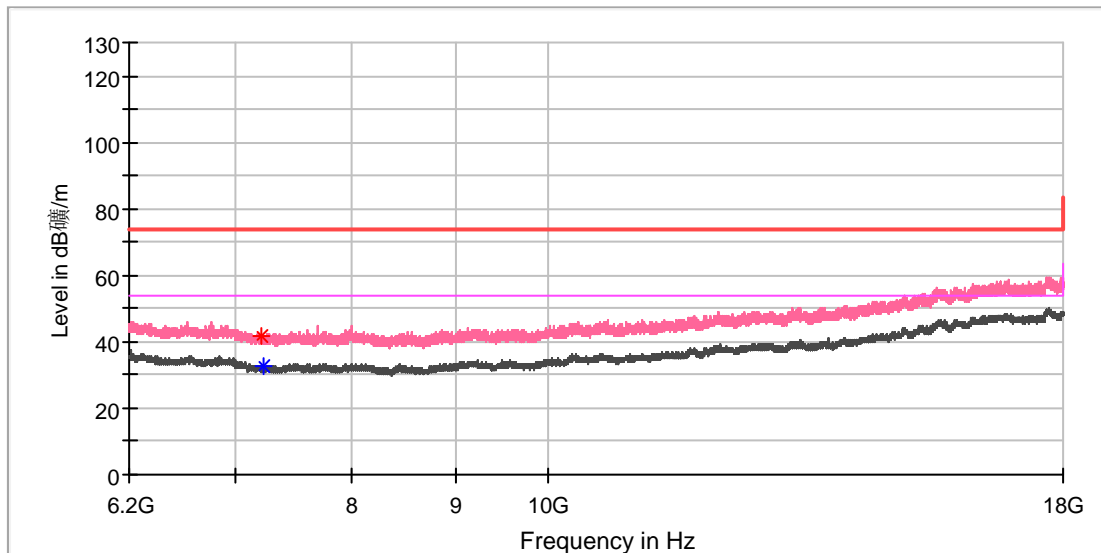


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6405.025000	45.69	---	74.00	28.31	100.0	H	17.0	8.9
6405.025000	---	41.19	54.00	12.81	100.0	H	17.0	8.9
7209.391667	42.25	---	74.00	31.75	100.0	H	124.0	8.8
7209.883333	---	33.00	54.00	21.00	100.0	H	4.0	8.7

EUT Information

EUT Name:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_Low channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

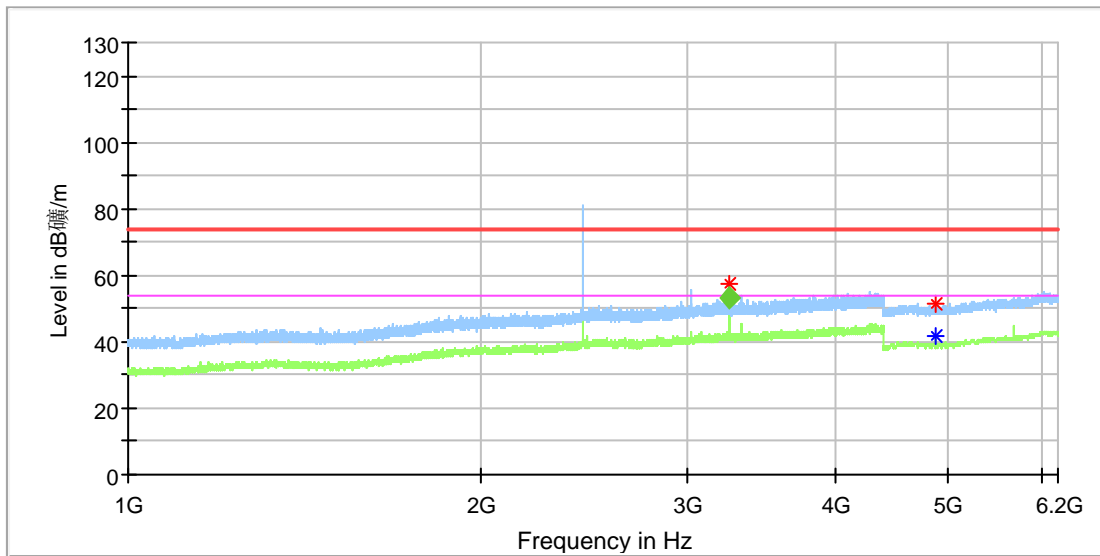


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	41.47	---	74.00	32.53	100.0	V	0.0	8.8
7225.125000	---	32.79	54.00	21.21	100.0	V	347.0	8.7

EUT Information

EUT Name: SELFIE STICK
 Model: SELFSTPRM
 Test Mode: BLE_Mid channel
 Order No/Sample No: 168333958/A003122532-001
 Test Voltage:: Battery (3Vdc)
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

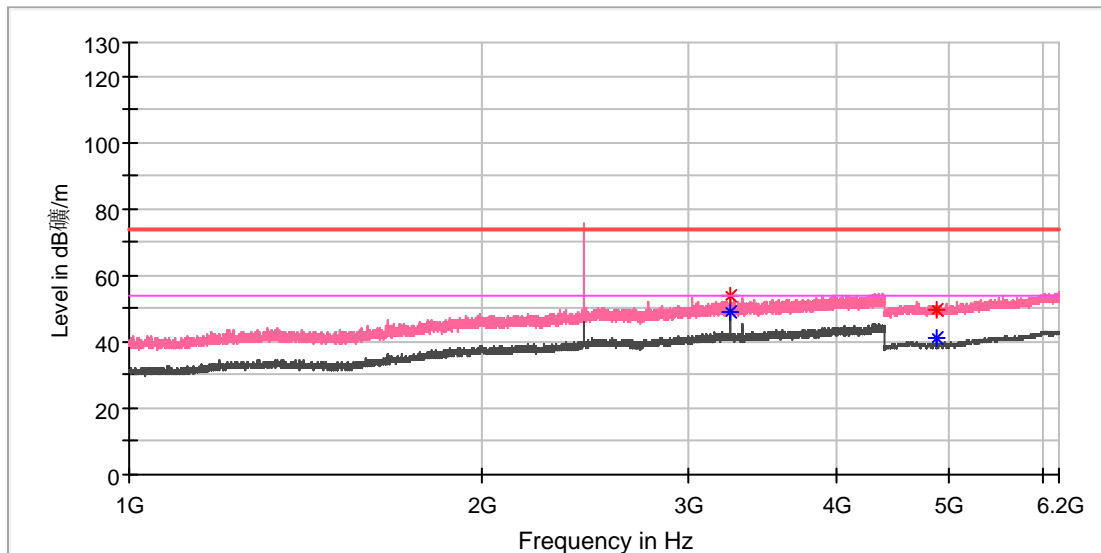
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3253.350000	57.71	---	74.00	16.29	100.0	H	343.0	8.5
4880.000000	---	41.80	54.00	12.20	100.0	H	241.0	11.8
4880.500000	51.20	---	74.00	22.80	100.0	H	234.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3253.246500	53.03	54.00	0.97	105.0	H	342.0	8.5

EUT Information

EUT Name:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_Mid channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

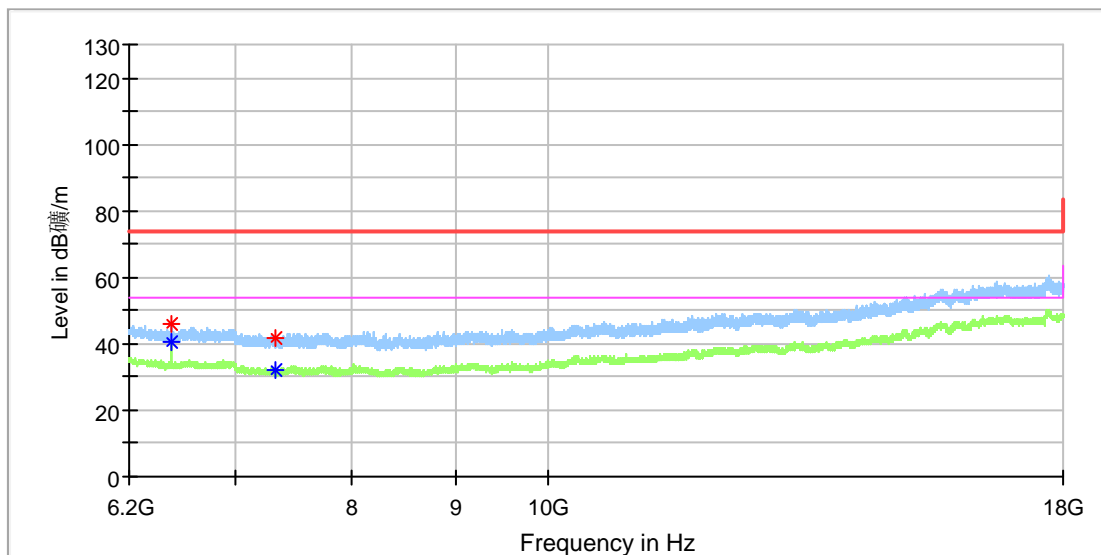


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3253.350000	53.77	---	74.00	20.23	100.0	V	49.0	8.5
3253.350000	---	48.94	54.00	5.06	100.0	V	49.0	8.5
4874.500000	49.43	---	74.00	24.57	100.0	V	201.0	11.8
4879.500000	---	41.01	54.00	12.99	100.0	V	293.0	11.8

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EUT Name:	SELFIE STICK
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Test Mode:	BLE_Mid channel
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Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

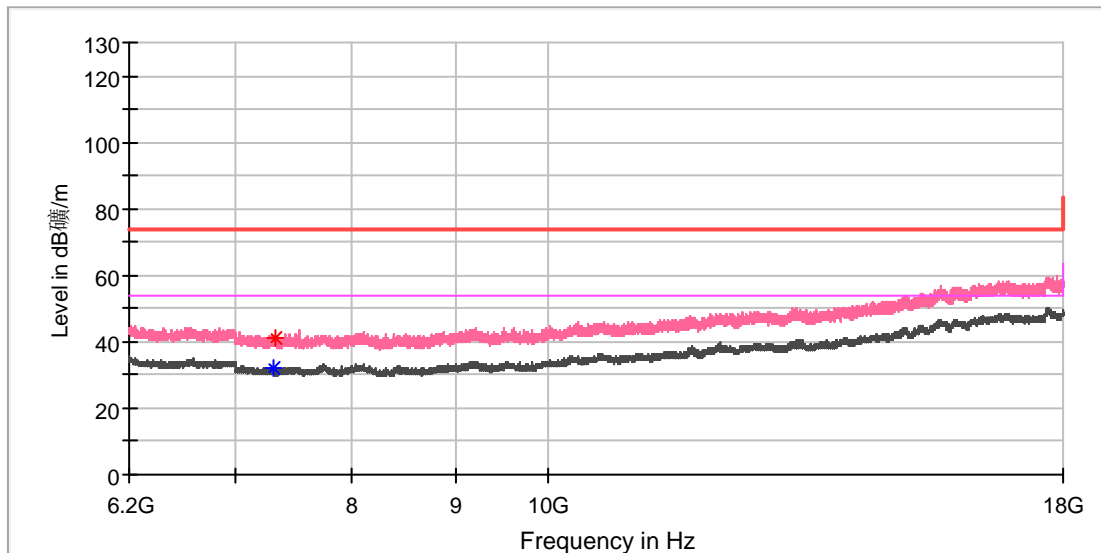


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6506.800000	45.98	---	74.00	28.02	100.0	H	220.0	8.8
6506.800000	---	40.55	54.00	13.45	100.0	H	220.0	8.8
7329.850000	41.44	---	74.00	32.56	100.0	H	314.0	8.1
7330.833333	---	32.28	54.00	21.72	100.0	H	286.0	8.1

EUT Information

EUT Name:	SELFIE STICK
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Test Mode:	BLE_Mid channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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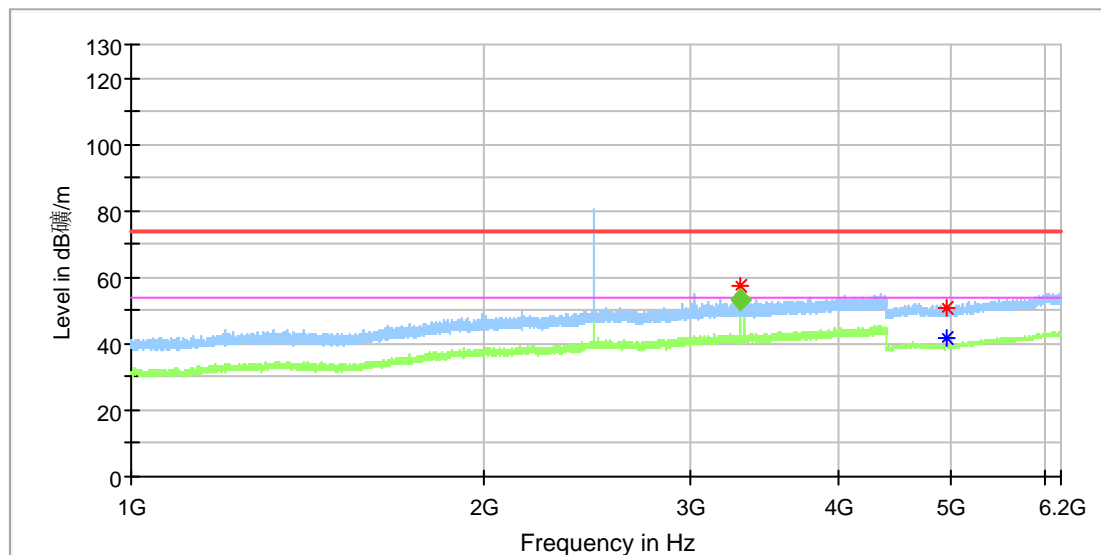


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.658333	---	31.77	54.00	22.23	100.0	V	94.0	8.2
7319.525000	41.35	---	74.00	32.65	100.0	V	9.0	8.2

EUT Information

EUT Name:	SELFIE STICK
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Test Mode:	BLE_High channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

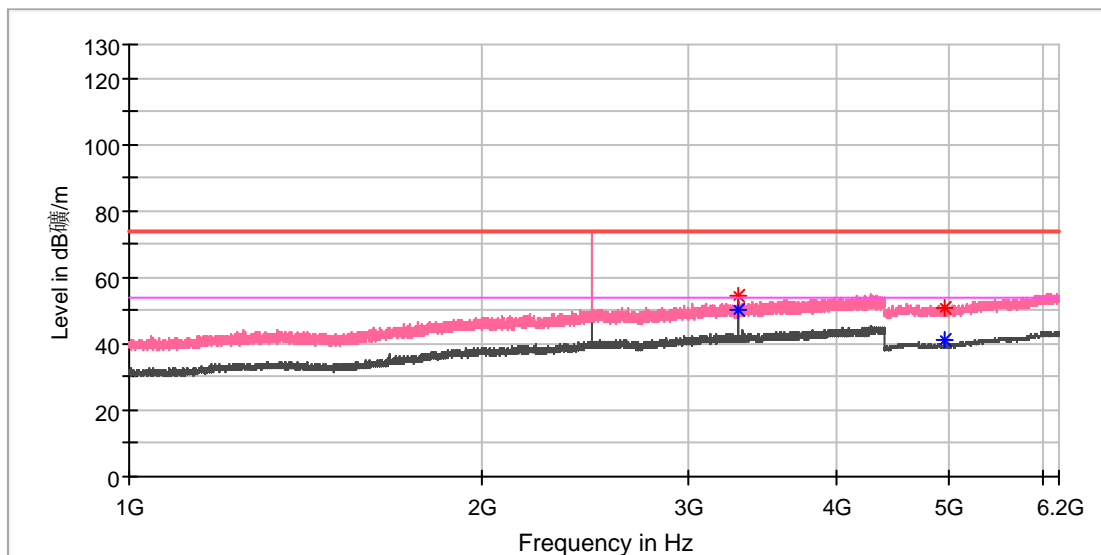
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.730000	57.44	---	74.00	16.56	100.0	H	48.0	8.6
4959.500000	---	41.79	54.00	12.21	100.0	H	7.0	11.8
4960.000000	50.90	---	74.00	23.10	100.0	H	199.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.653500	53.27	54.00	0.73	105.0	H	46.0	8.6

EUT Information

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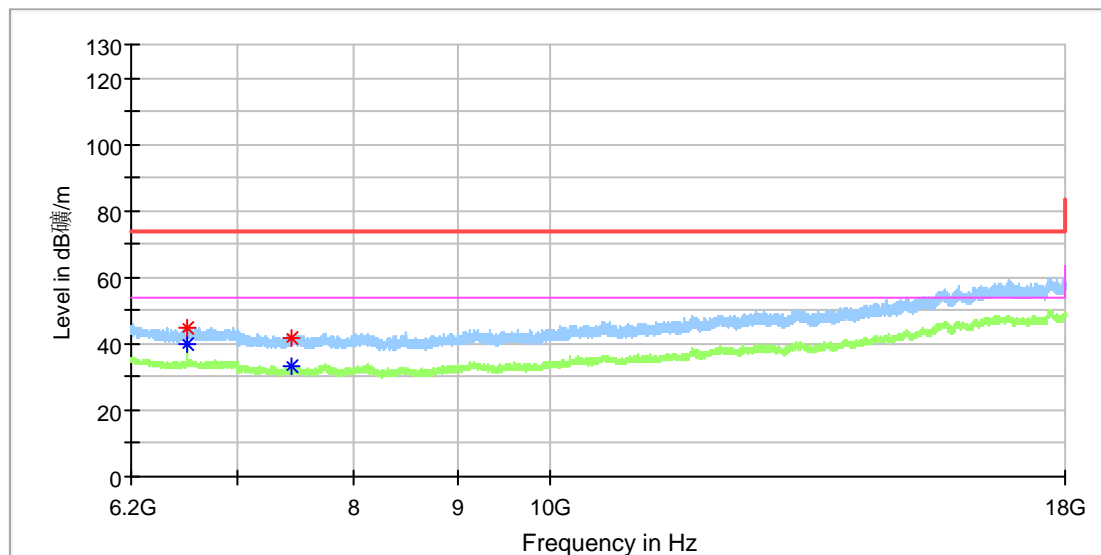


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.560000	54.18	---	74.00	19.82	100.0	V	290.0	8.6
3306.560000	---	50.02	54.00	3.98	100.0	V	290.0	8.6
4960.000000	50.92	---	74.00	23.08	100.0	V	114.0	11.8
4960.000000	---	40.83	54.00	13.17	100.0	V	114.0	11.8

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Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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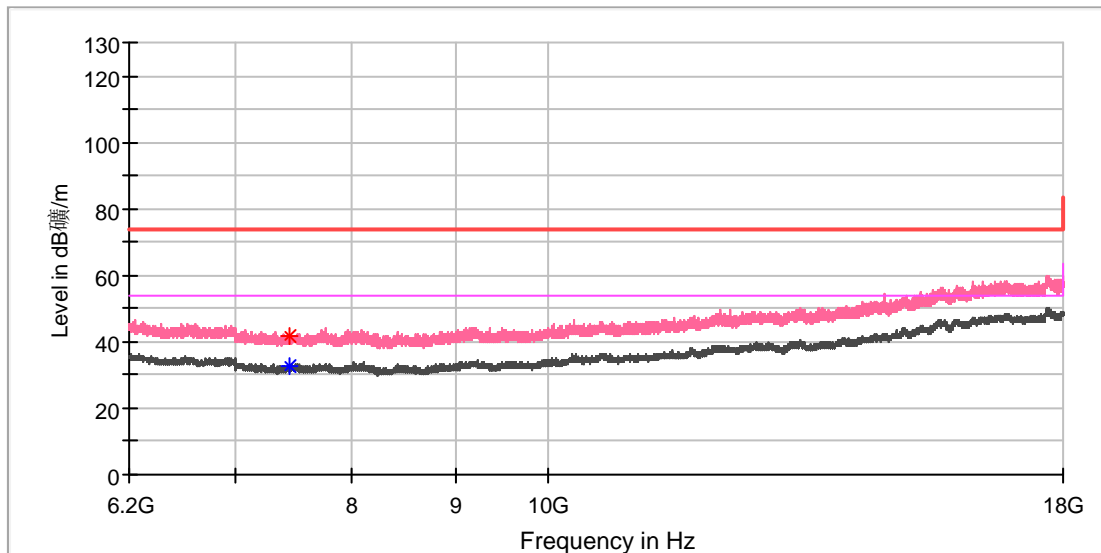


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6613.000000	---	39.85	54.00	14.15	100.0	H	328.0	8.8
6613.491667	44.47	---	74.00	29.53	100.0	H	233.0	8.8
7440.966667	---	32.96	54.00	21.04	100.0	H	246.0	8.4
7446.866667	41.86	---	74.00	32.14	100.0	H	301.0	8.5

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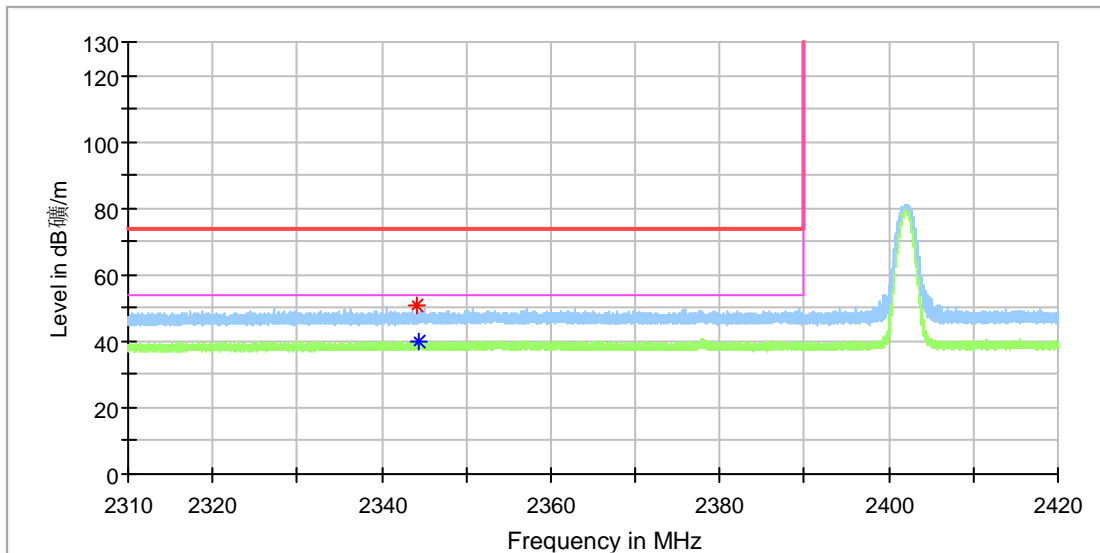
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.441667	---	32.63	54.00	21.37	100.0	V	185.0	8.4
7449.816667	41.85	---	74.00	32.15	100.0	V	74.0	8.5

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

EUT Information

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Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
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Tested By:	Kei Zhang
Reviewed By:	Terry Yin

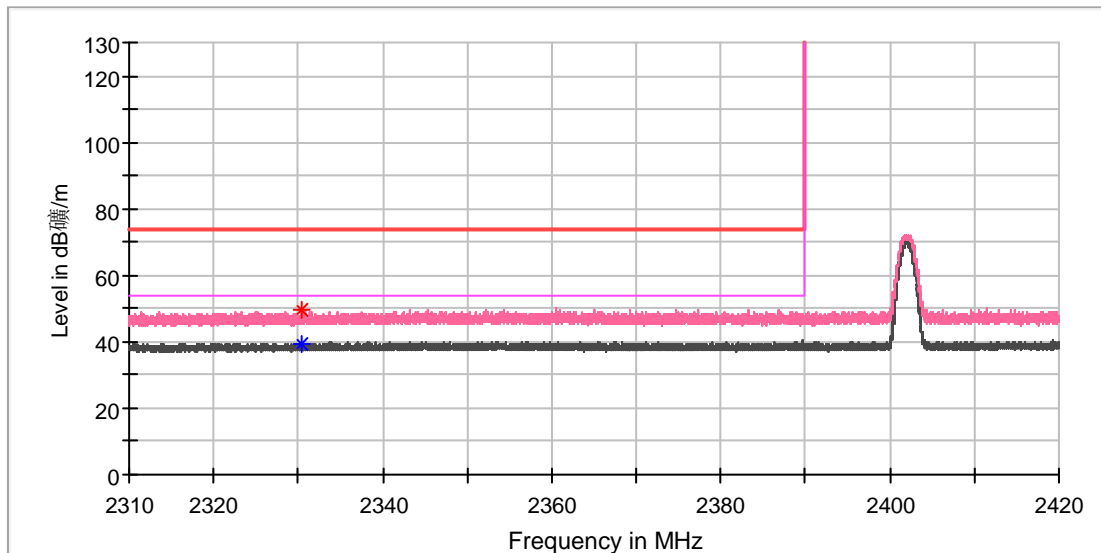


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2344.050500	51.06	---	74.00	22.94	100.0	H	177.0	6.9
2344.430000	---	39.79	54.00	14.21	100.0	H	165.0	6.9

EUT Information

EUT Name:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_Low channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

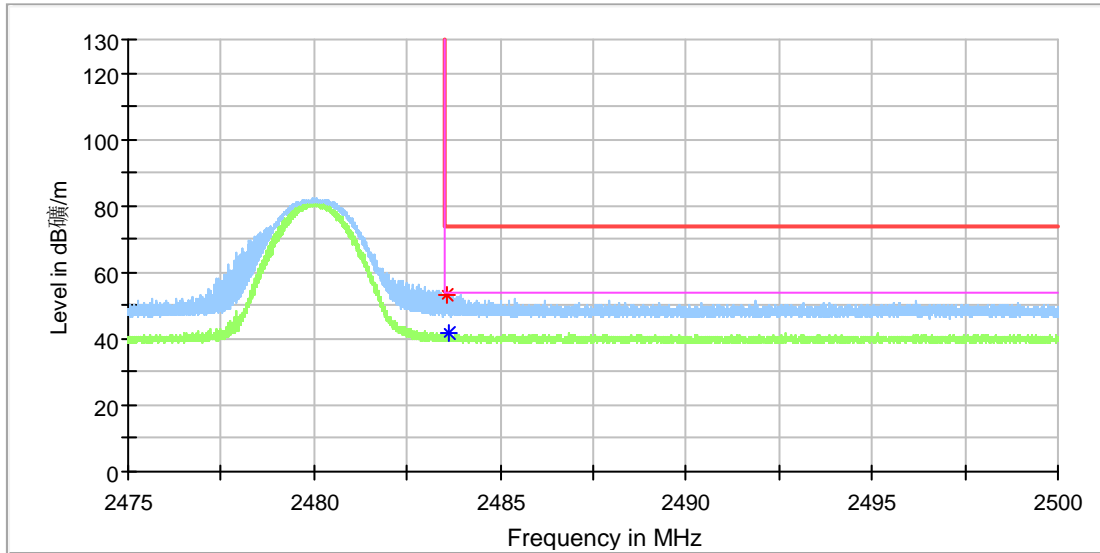


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2330.322500	---	39.59	54.00	14.41	100.0	V	341.0	6.7
2330.449000	49.48	---	74.00	24.52	100.0	V	341.0	6.7

EUT Information

EUT Name:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_High channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

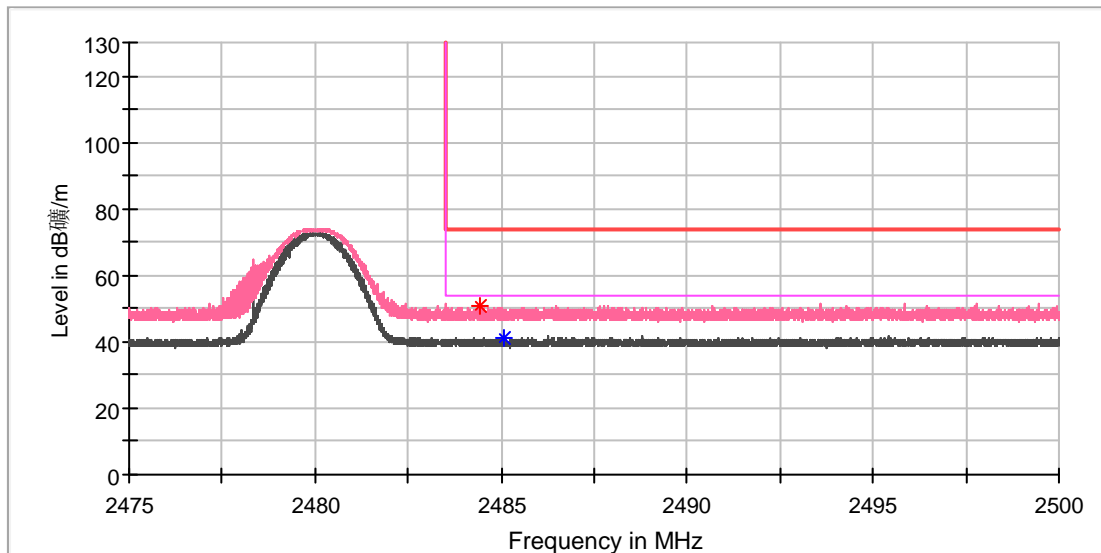


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.558750	53.17	---	74.00	20.83	100.0	H	350.0	7.4
2483.618750	---	41.50	54.00	12.50	100.0	H	350.0	7.4

EUT Information

EUT Name:	SELFIE STICK
Model:	SELFSTPRM
Test Mode:	BLE_High channel
Order No/Sample No:	168333958/A003122532-001
Test Voltage::	Battery (3Vdc)
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)
2484.453750	50.72	---	74.00	23.28	100.0	V	16.0	7.4
2485.057500	---	41.08	54.00	12.92	100.0	V	95.0	7.4