

Appendix C: Test Results of Bluetooth Low Energy

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

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.14	≤8.00	PASS
		2440	-10.05	≤8.00	PASS
		2480	-7.91	≤8.00	PASS
BLE_2M	Ant1	2402	-12.25	≤8.00	PASS
		2440	-13.12	≤8.00	PASS
		2480	-10.88	≤8.00	PASS



BLE 1M Ant1 2402



BLE 1M Ant1 2440

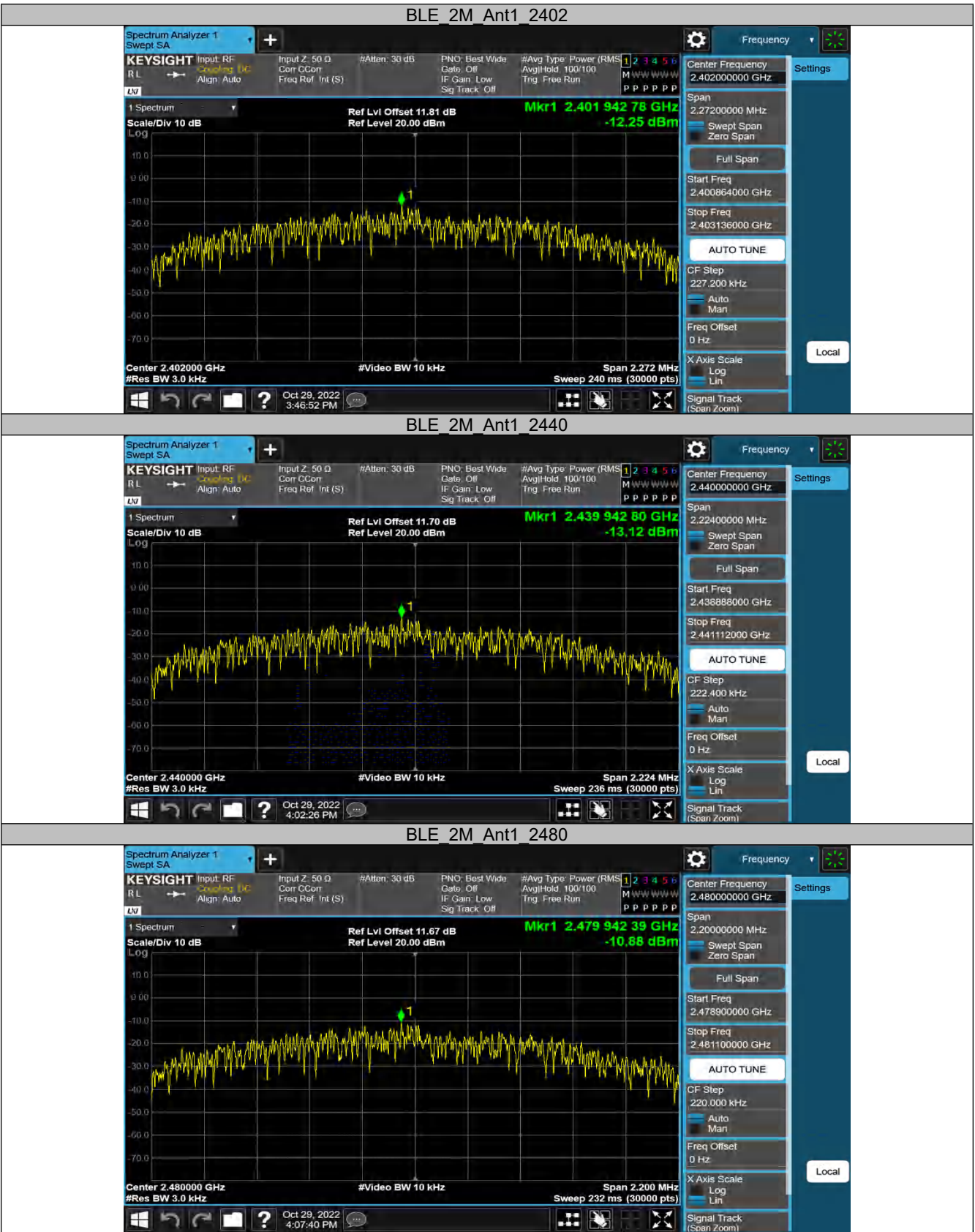


BLE 1M Ant1 2480



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Appendix C.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.636	2402.312	0.5	PASS
		2440	0.652	2439.660	2440.312	0.5	PASS
		2480	0.656	2479.652	2480.308	0.5	PASS
BLE_2M	Ant1	2402	1.136	2401.424	2402.560	0.5	PASS
		2440	1.112	2439.448	2440.560	0.5	PASS
		2480	1.100	2479.420	2480.520	0.5	PASS



BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



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BLE 2M Ant1 2440



BLE 2M Ant1 2480



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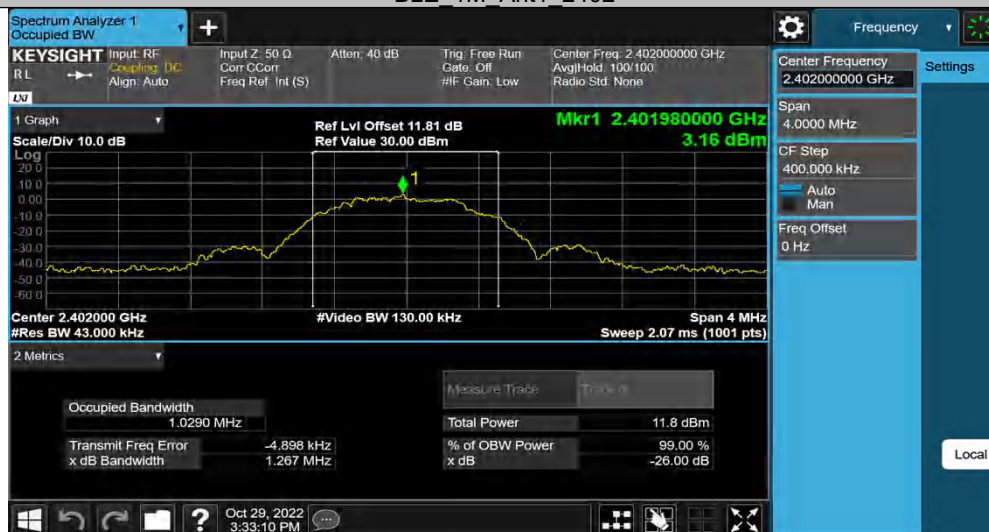
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Appendix C.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0290	2401.4806	2402.5096	---	---
		2440	1.0270	2439.4787	2440.5057	---	---
		2480	1.0277	2479.4795	2480.5072	---	---
BLE_2M	Ant1	2402	2.0254	2400.9978	2403.0232	---	---
		2440	2.0210	2438.9938	2441.0148	---	---
		2480	2.0201	2478.9930	2481.0131	---	---

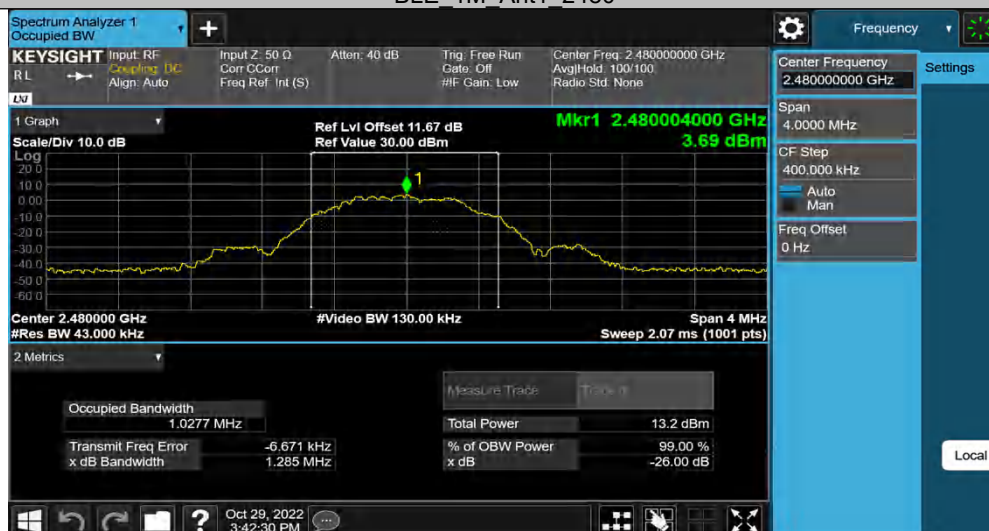
BLE 1M Ant1 2402

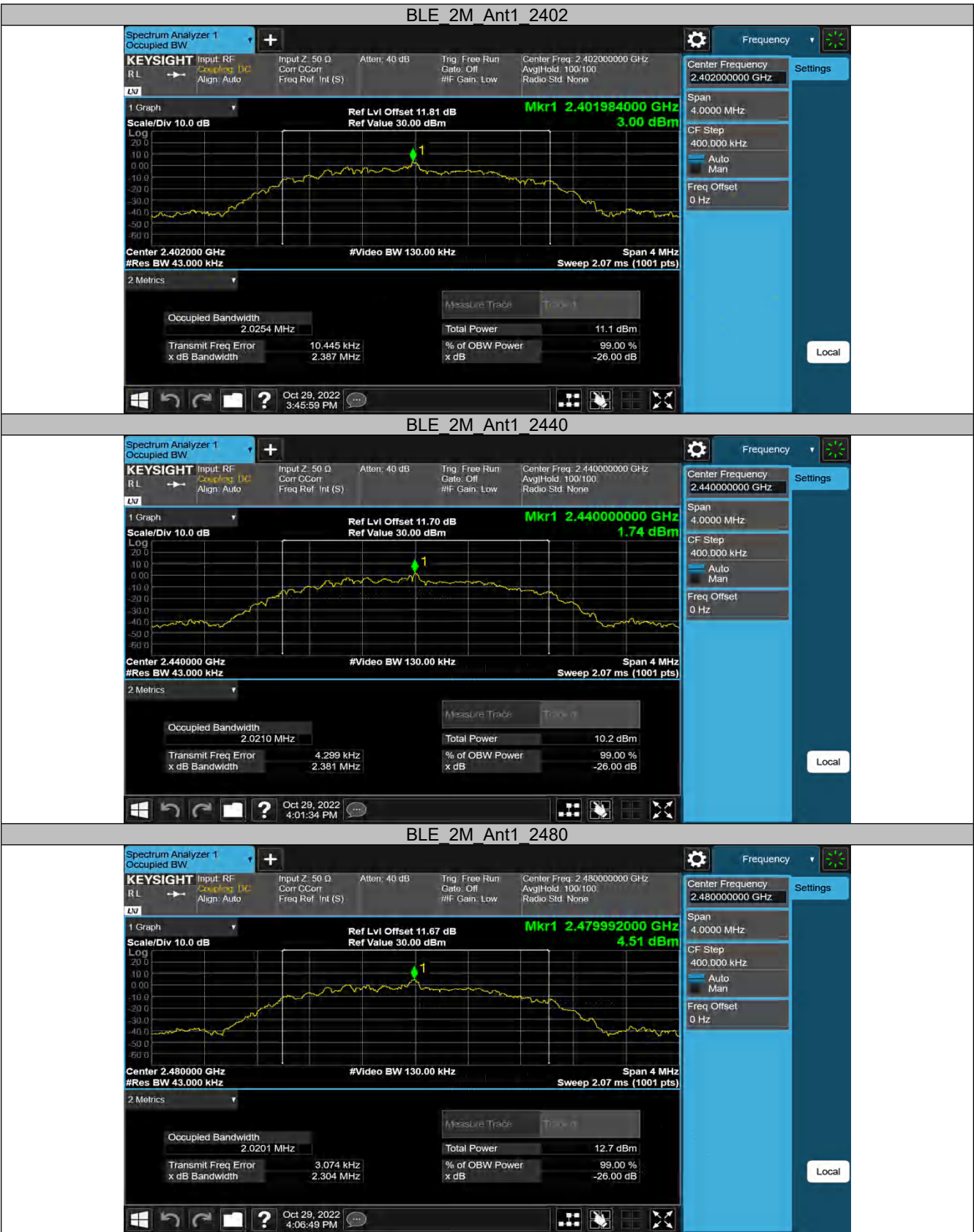


BLE 1M Ant1 2440



BLE 1M Ant1 2480





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

Conducted Spurious Emission

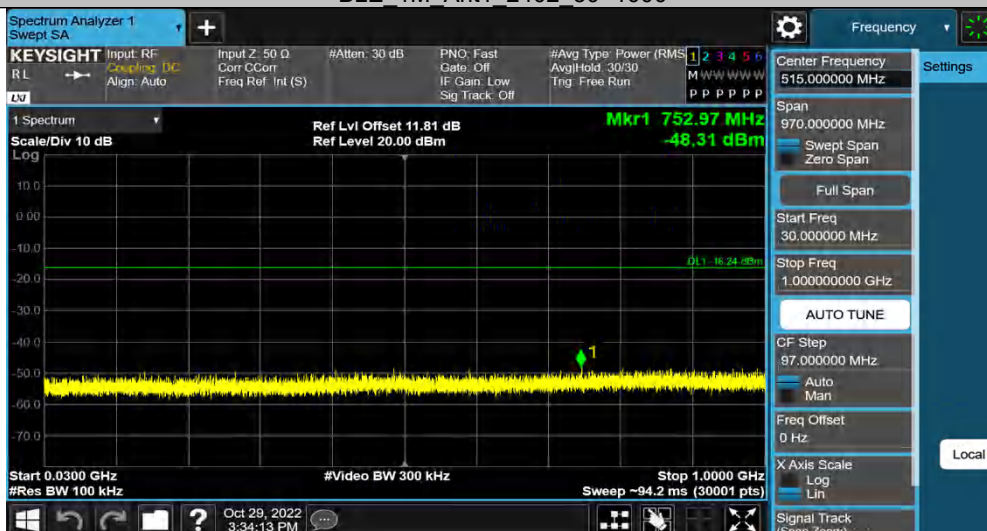
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-48.31	≤-16.24	PASS
			1000~26500	3.76	-38.61	≤-16.24	PASS
		2440	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-48.37	≤-18.03	PASS
			1000~26500	1.97	-38.89	≤-18.03	PASS
		2480	Reference	5.75	5.75	---	PASS
			30~1000	5.75	-48.46	≤-14.25	PASS
			1000~26500	5.75	-39.18	≤-14.25	PASS
BLE_2M	Ant1	2402	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-48.13	≤-18.87	PASS
			1000~26500	1.13	-38.85	≤-18.87	PASS
		2440	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-47.83	≤-17.49	PASS
			1000~26500	2.51	-39.01	≤-17.49	PASS
		2480	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-47.97	≤-15.83	PASS
			1000~26500	4.17	-38.8	≤-15.83	PASS



BLE 1M Ant1 2402 0~Reference



BLE 1M Ant1 2402 30~1000



BLE 1M Ant1 2402 1000~26500

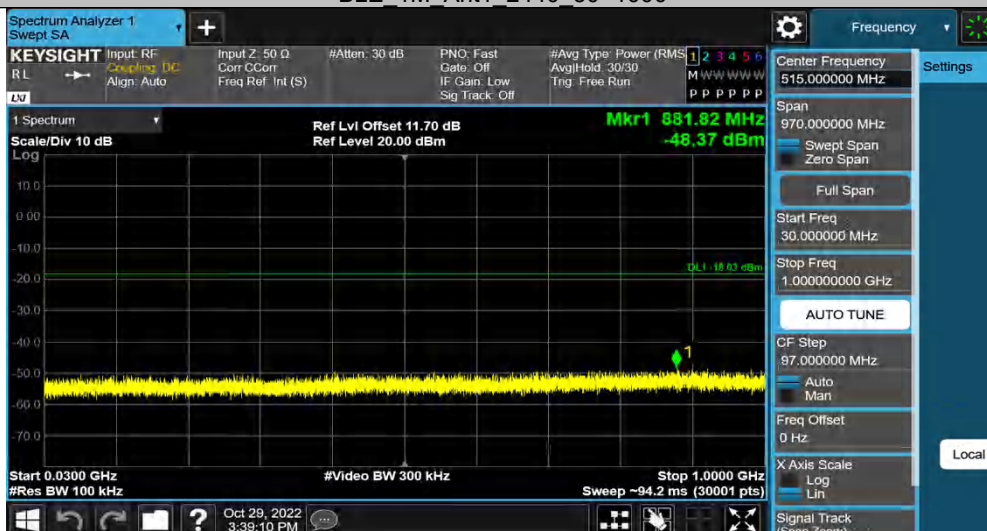




BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



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BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500

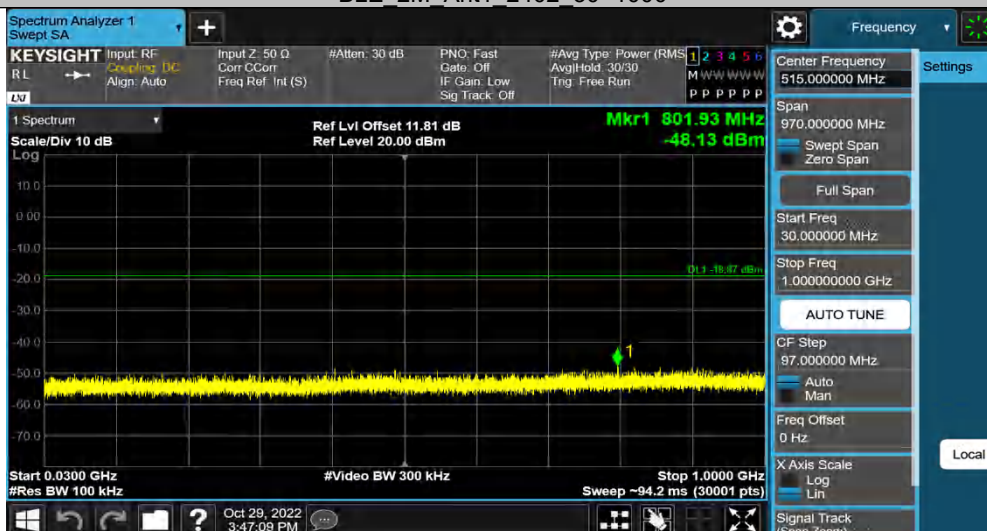




BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500

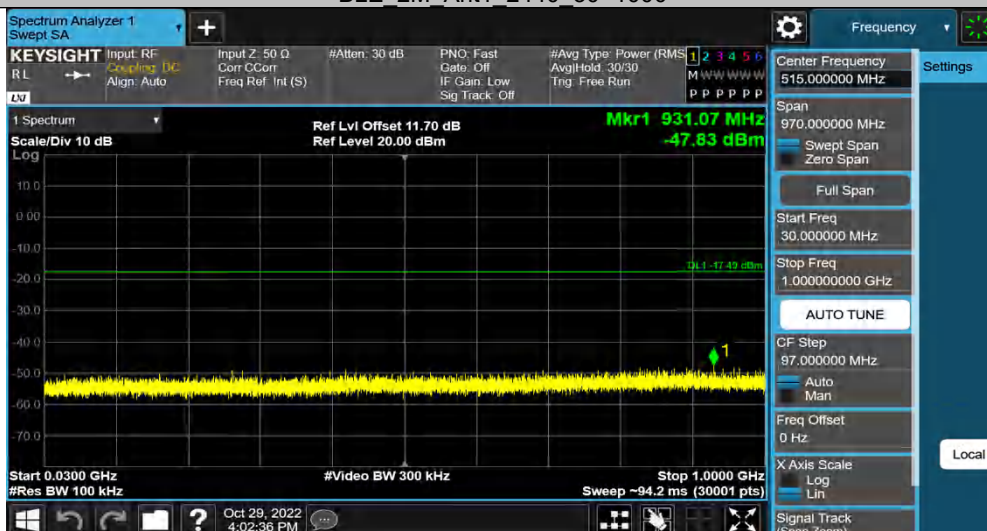




BLE 2M Ant1 2440 0~Reference

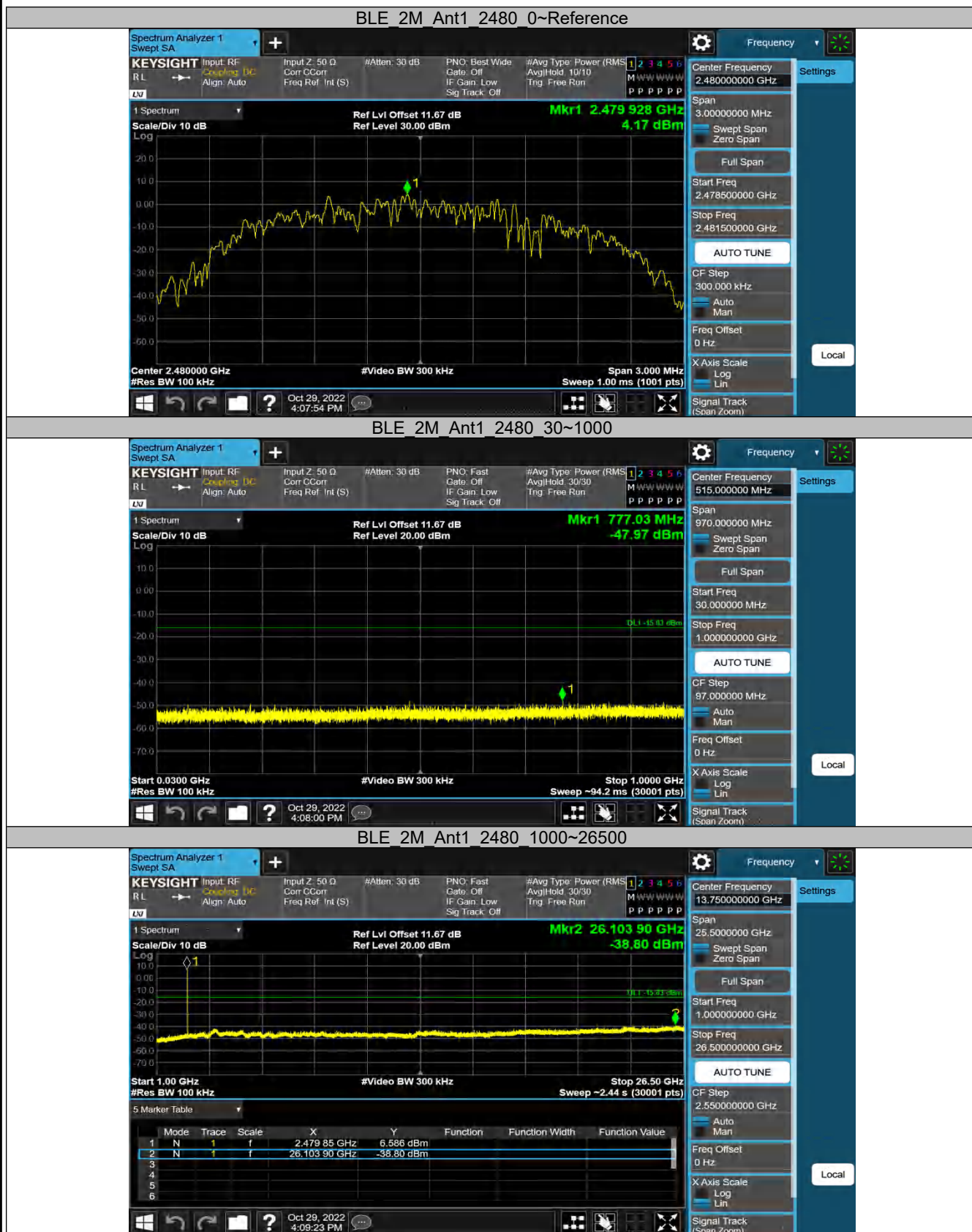


BLE 2M Ant1 2440 30~1000



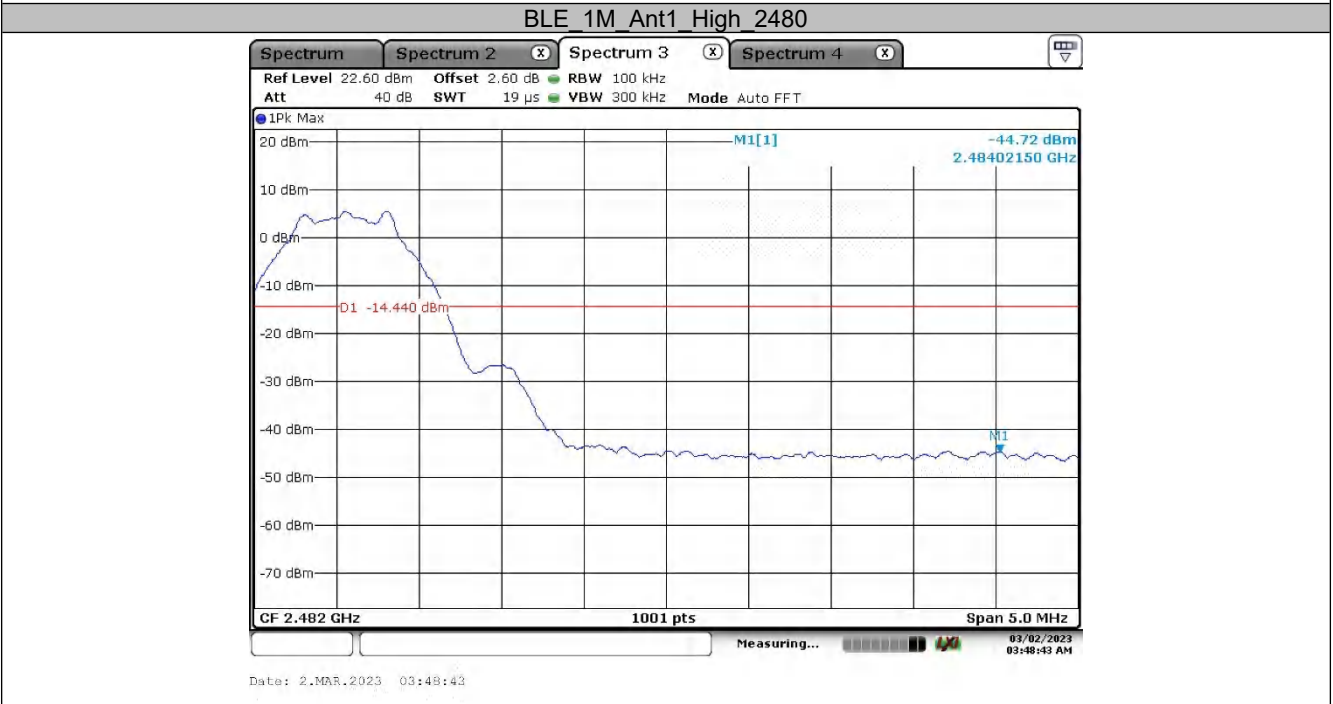
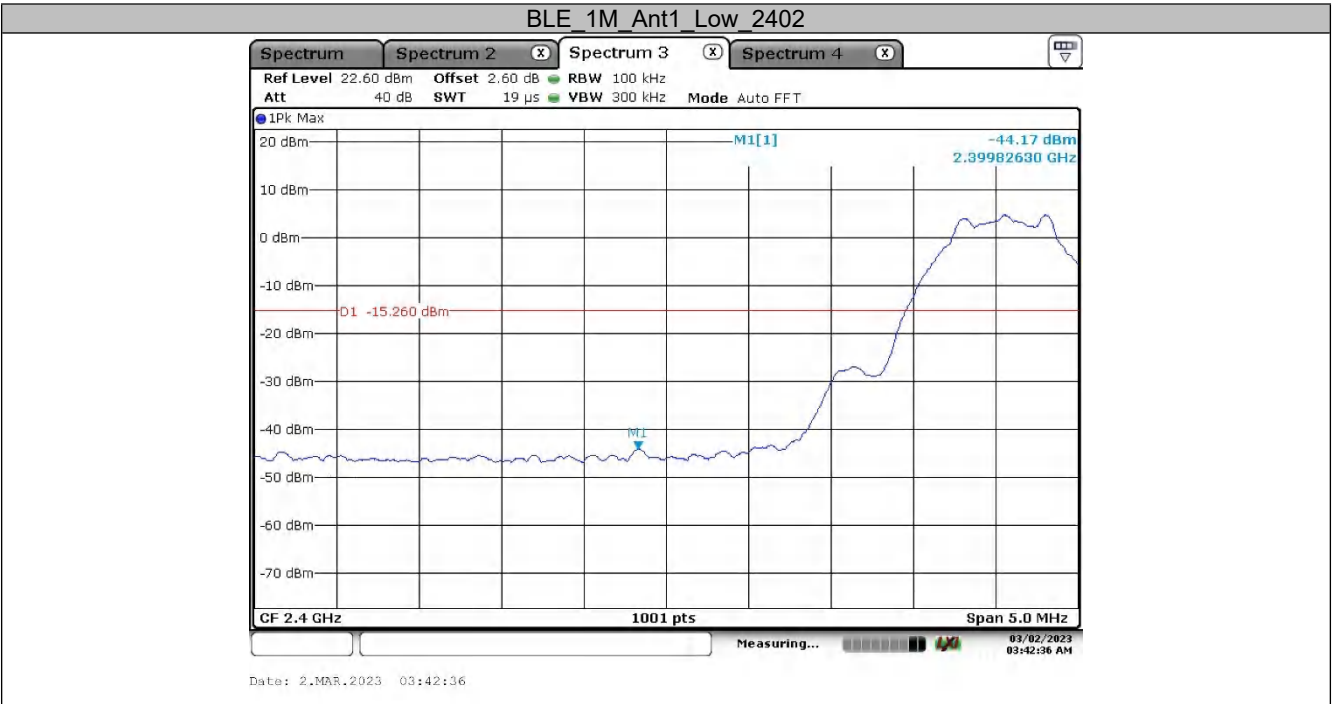
BLE 2M Ant1 2440 1000~26500



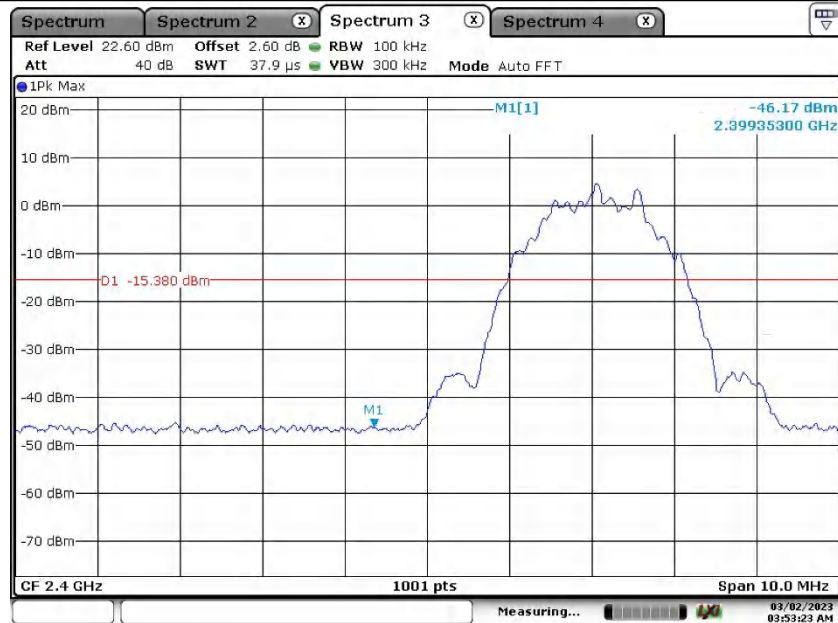


Band Edge

TestMode	Antenna	ChName	Channel	Verdict
BLE_1M	Ant1	Low	2402	PASS
		High	2480	PASS
BLE_2M	Ant1	Low	2402	PASS
		High	2480	PASS

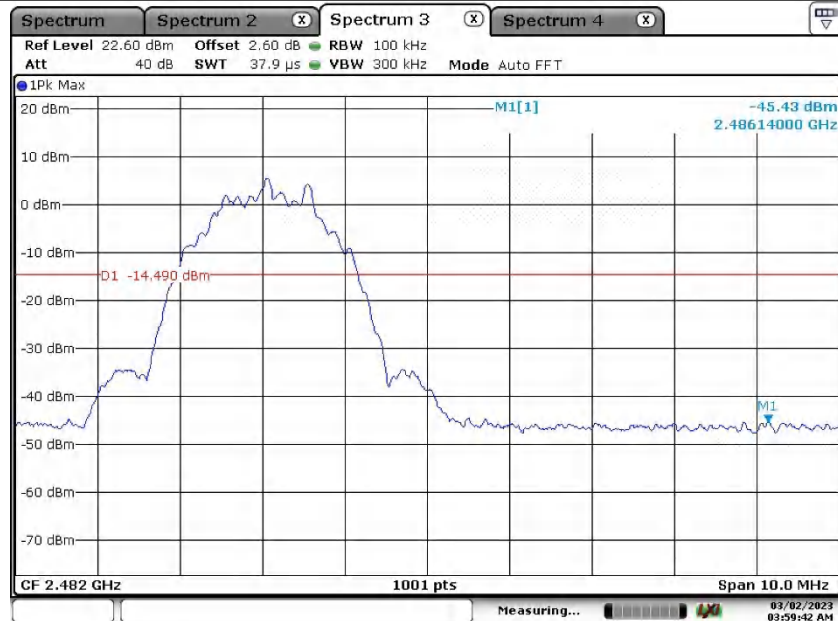


BLE 2M_Ant1_Low_2402



Date: 2.MAR.2023 03:53:23

BLE 2M_Ant1_High_2480



Date: 2.MAR.2023 03:59:42

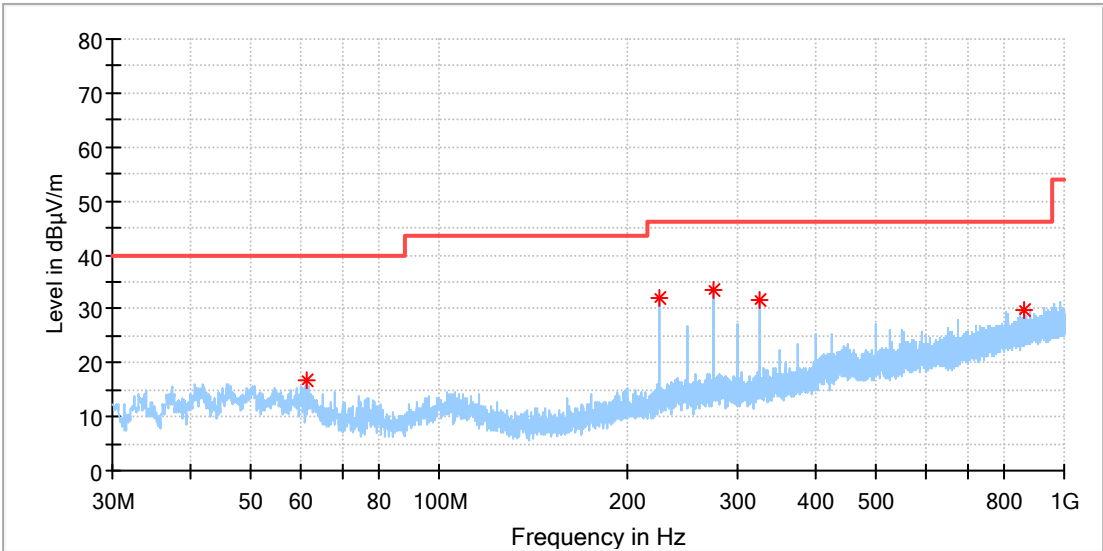
Appendix C.5: Test Results of Radiated Spurious Emissions

- 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 - 1GHz

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

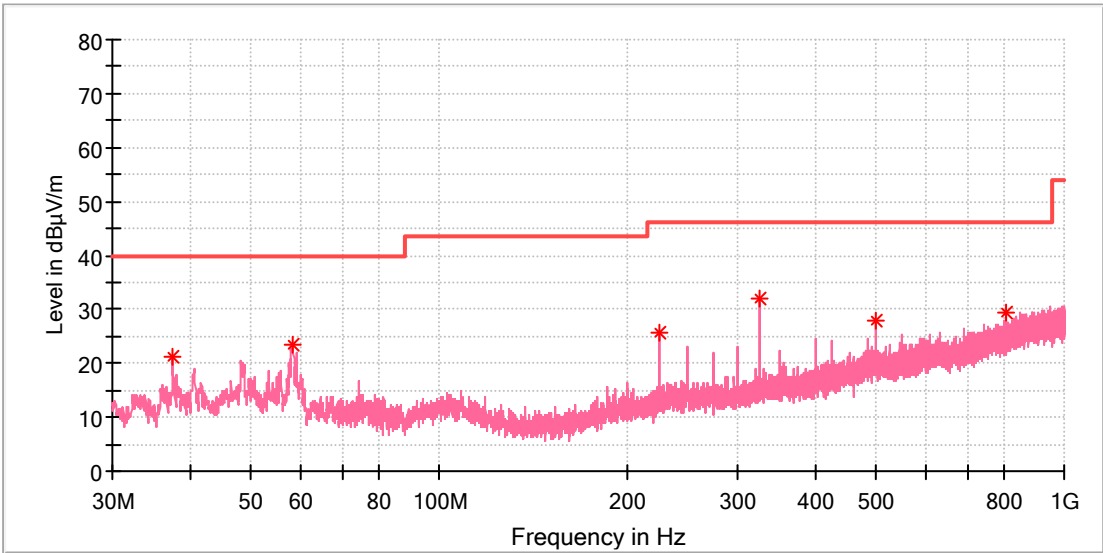
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
61.185500	16.61	40.00	23.39	100.0	H	237.0	-19.2
225.018500	31.98	46.00	14.02	100.0	H	306.0	-18.3
275.022000	33.35	46.00	12.65	100.0	H	168.0	-16.8
325.025500	31.54	46.00	14.46	100.0	H	284.0	-15.6
864.830500	29.64	46.00	16.36	100.0	H	358.0	-5.3

Final_Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
37.469000	21.05	40.00	18.95	100.0	V	115.0	-21.0
58.178500	23.42	40.00	16.58	100.0	V	270.0	-18.8
225.018500	25.70	46.00	20.30	100.0	V	0.0	-18.3
325.025500	32.07	46.00	13.93	100.0	V	257.0	-15.6
500.013500	28.00	46.00	18.00	100.0	V	14.0	-11.8
807.794500	29.32	46.00	16.68	100.0	V	66.0	-6.2

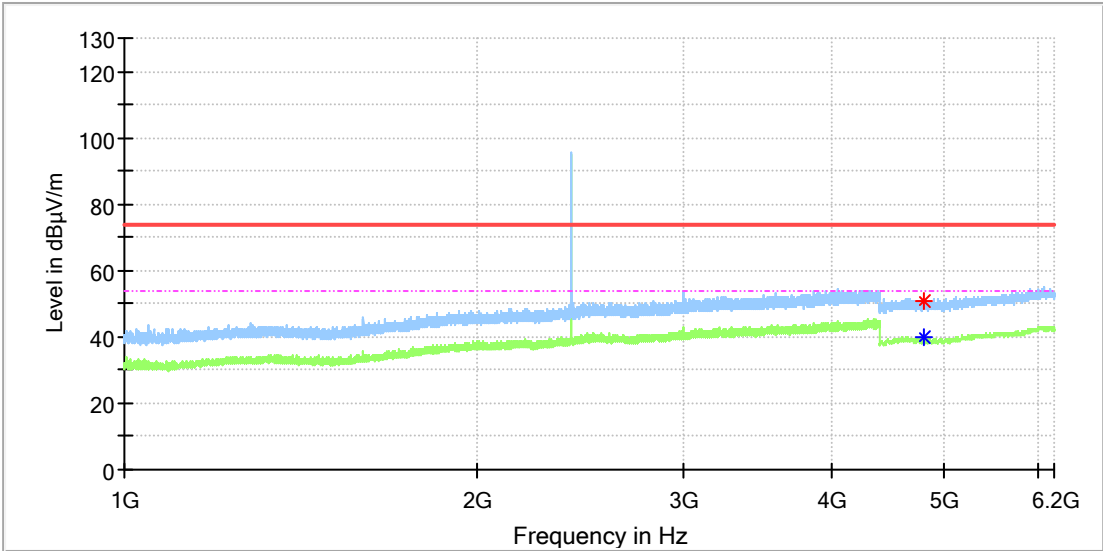
Final Result

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:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

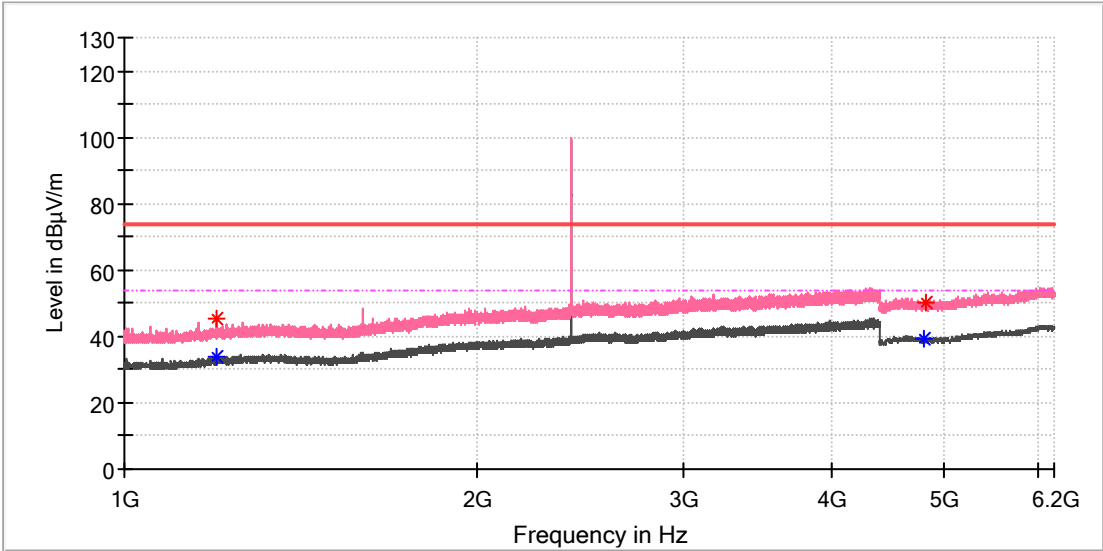
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	39.65	54.00	14.35	100.0	H	251.0	11.8
4806.500000	50.56	---	74.00	23.44	100.0	H	258.0	11.8

Final_Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
1196.180000	---	33.83	54.00	20.17	100.0	V	99.0	1.1
1198.730000	45.55	---	74.00	28.45	100.0	V	248.0	1.1
4807.500000	---	39.41	54.00	14.59	100.0	V	312.0	11.8
4820.000000	50.45	---	74.00	23.55	100.0	V	27.0	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:

Model:

Test Mode:

Order No/Sample No:

Test Voltage:

Remark:

Test Standard:

Tested By:

Reviewed By:

Portable Thermal Camera

Titan HD

BLE 1M_Low channel

168392026/A003352666-001

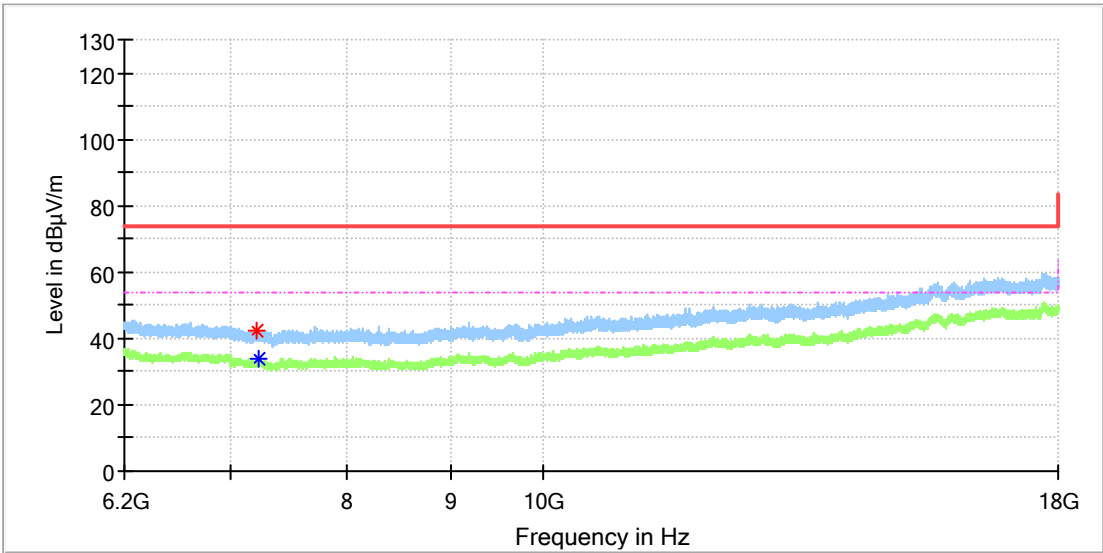
Battery

Temp 23 Humi:58%

FCC 15.247

Kei Zhang

Terry Yin



Critical Freqs

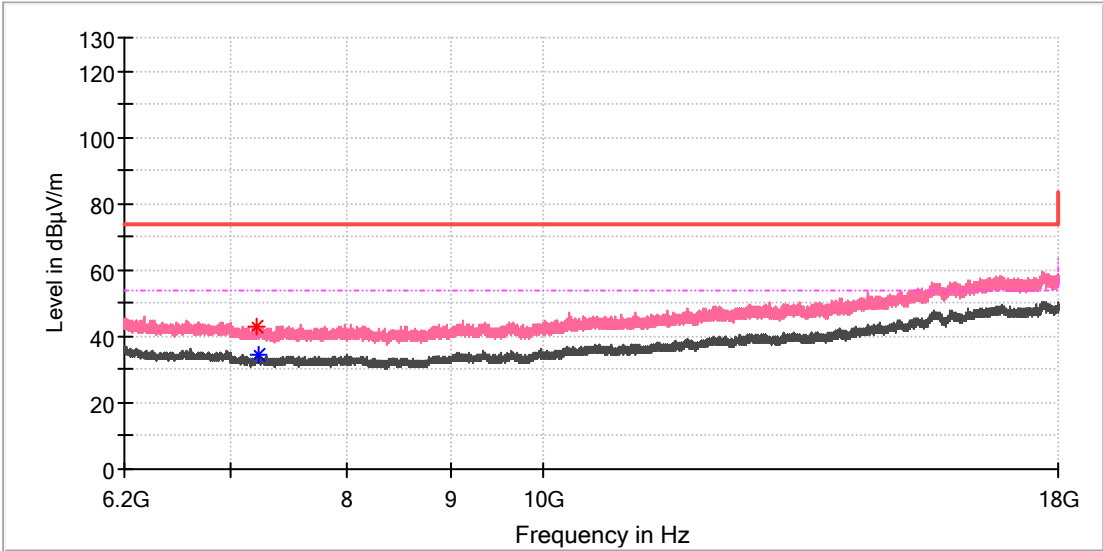
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.833333	42.20	---	74.00	31.80	100.0	H	337.0	8.7
7223.158333	---	33.72	54.00	20.28	100.0	H	121.0	8.7

Final Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
7208.408333	43.11	---	74.00	30.89	100.0	V	192.0	8.8
7231.025000	---	34.25	54.00	19.75	100.0	V	58.0	8.6

Final Result

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

EUT Information

EUT Name:

Model:

Test Mode:

Order No/Sample No:

Test Voltage:

Remark:

Test Standard:

Tested By:

Reviewed By:

Portable Thermal Camera

Titan HD

BLE 1M_Mid channel

168392026/A003352666-001

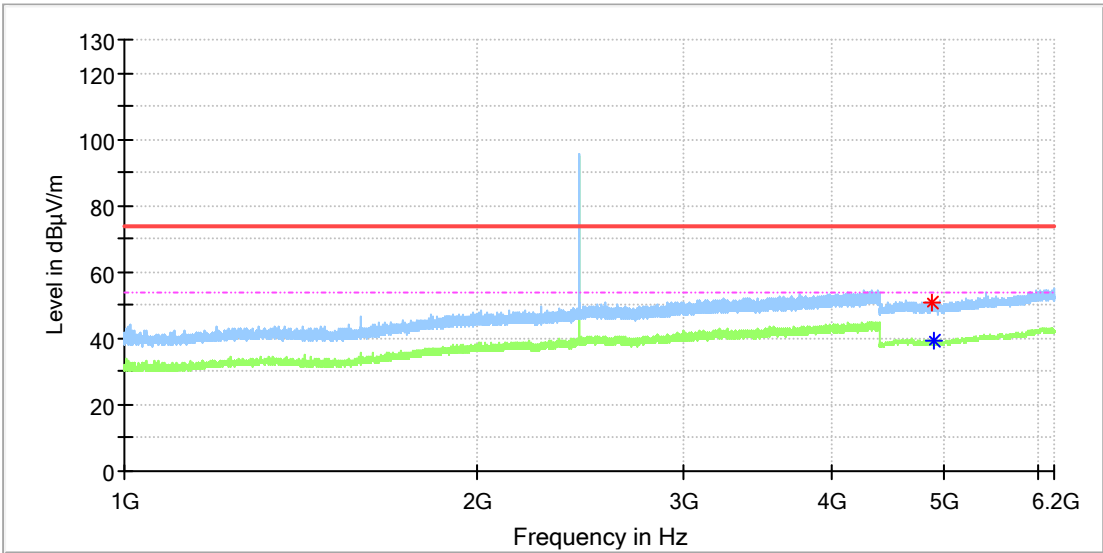
Battery

Temp 23 Humi:58%

FCC 15.247

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Critical_Freqs

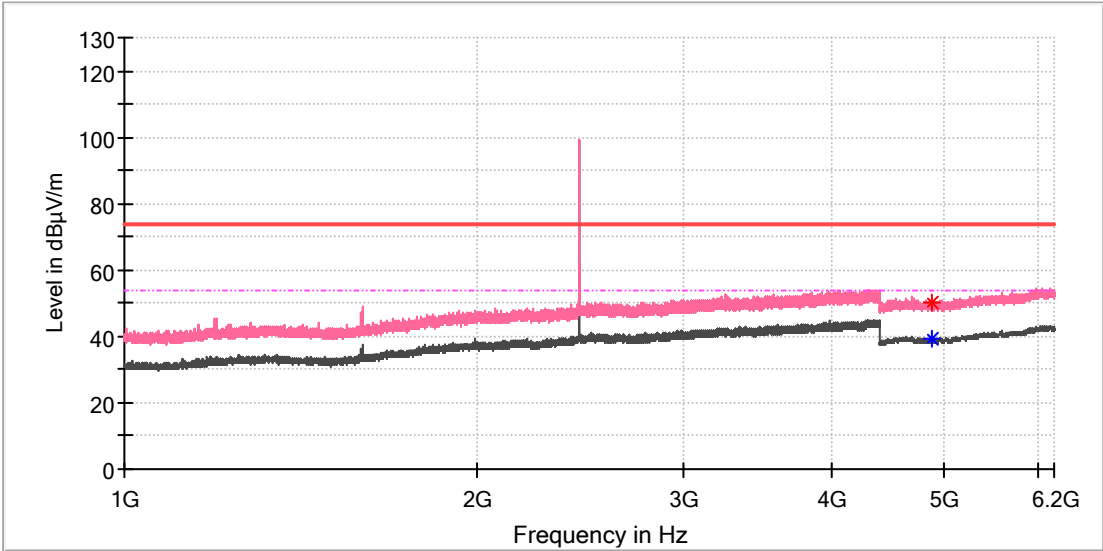
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	50.54	---	74.00	23.46	100.0	H	279.0	11.8
4905.500000	---	39.03	54.00	14.97	100.0	H	33.0	11.8

Final_Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

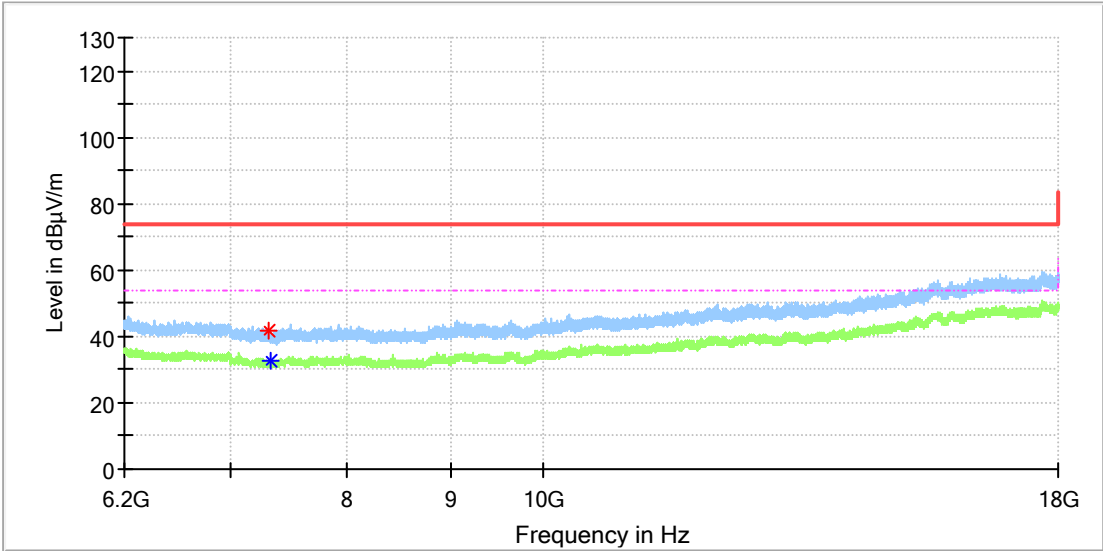
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	---	39.26	54.00	14.74	100.0	V	297.0	11.8
4878.500000	50.38	---	74.00	23.62	100.0	V	346.0	11.8

Final Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

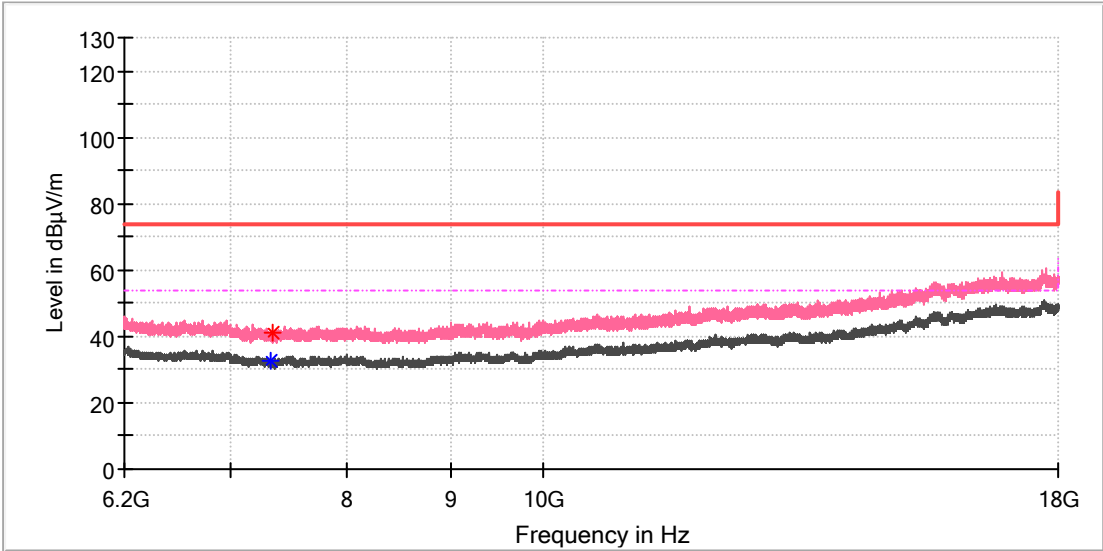
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.741667	41.74	---	74.00	32.26	100.0	H	60.0	8.3
7323.950000	---	32.93	54.00	21.07	100.0	H	201.0	8.2

Final Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
7328.866667	---	32.84	54.00	21.16	100.0	V	0.0	8.1
7339.191667	41.31	---	74.00	32.69	100.0	V	87.0	8.1

Final Result

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

EUT Information

EUT Name:

Model:

Test Mode:

Order No/Sample No:

Test Voltage:

Remark:

Test Standard:

Tested By:

Reviewed By:

Portable Thermal Camera

Titan HD

BLE 1M_High channel

168392026/A003352666-001

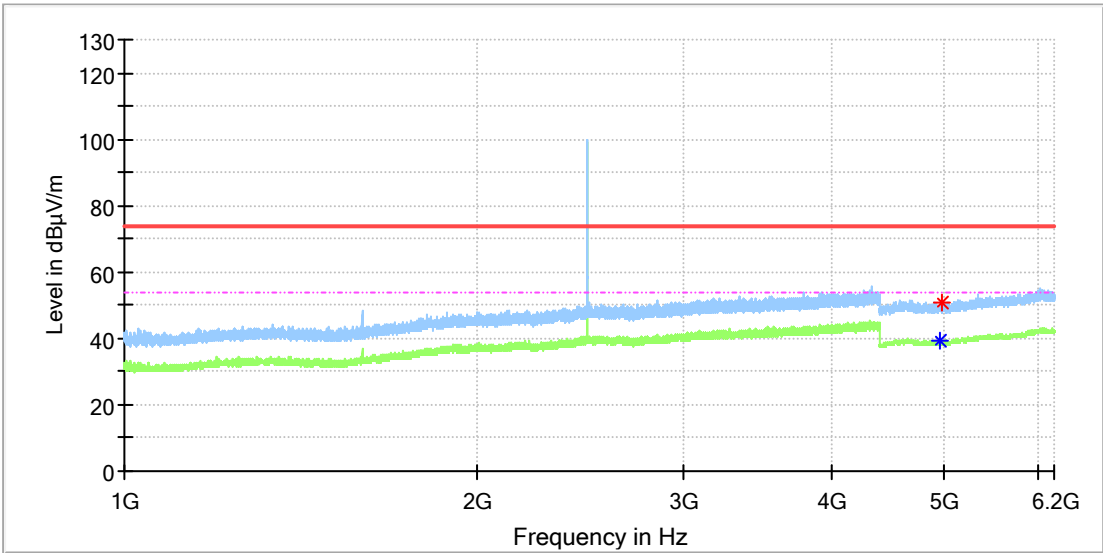
Battery

Temp 23 Humi:58%

FCC 15.247

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Critical Freqs

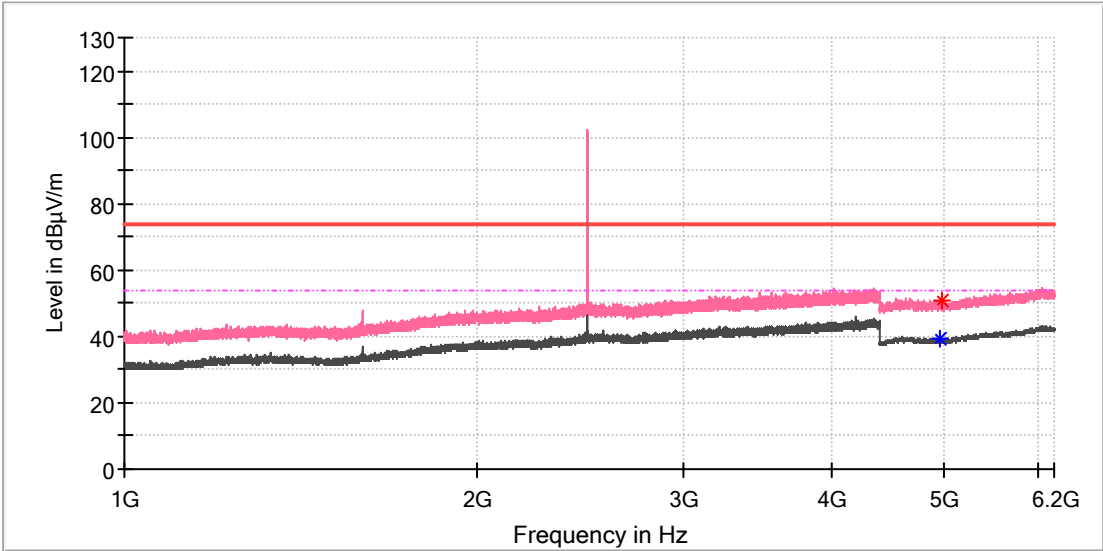
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.500000	---	39.18	54.00	14.82	100.0	H	220.0	11.8
4973.500000	50.97	---	74.00	23.03	100.0	H	349.0	11.8

Final Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_High channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

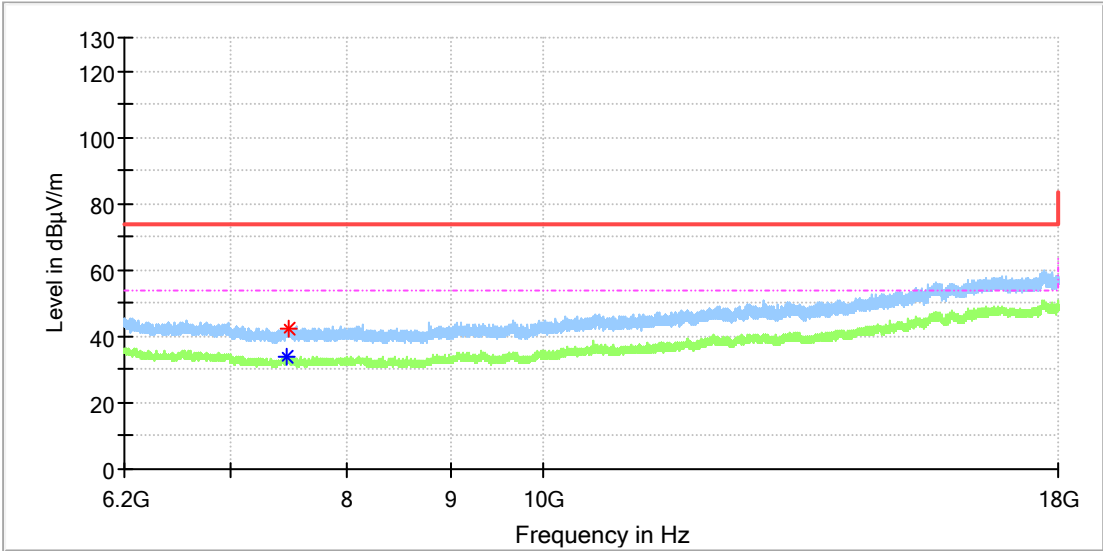
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.000000	---	39.25	54.00	14.75	100.0	V	24.0	11.8
4969.000000	50.55	---	74.00	23.45	100.0	V	336.0	11.8

Final Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

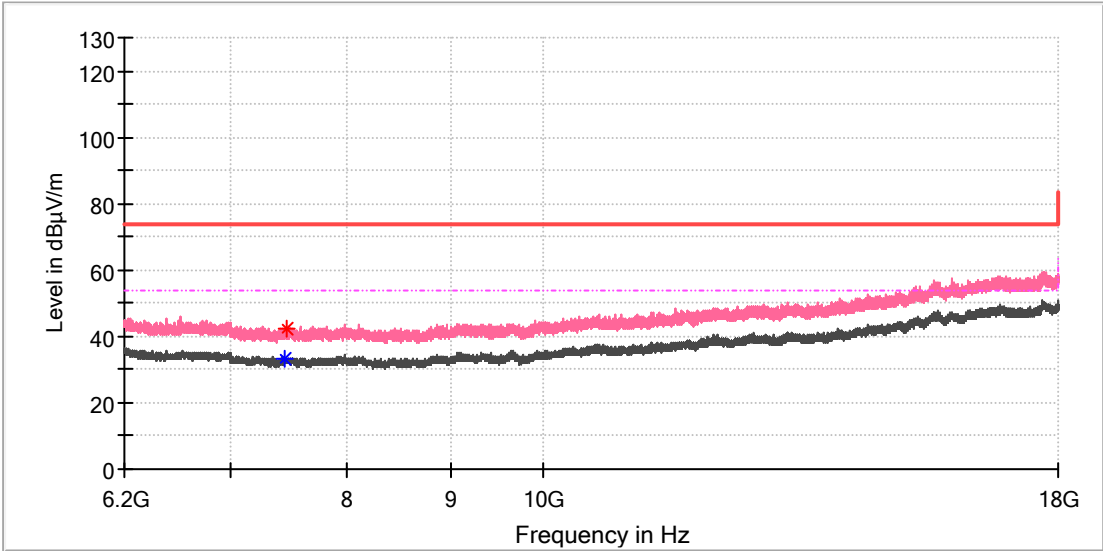
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7466.041667	---	33.72	54.00	20.28	100.0	H	110.0	8.6
7474.891667	42.29	---	74.00	31.71	100.0	H	94.0	8.6

Final Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
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)
7441.950000	---	33.51	54.00	20.49	100.0	V	339.0	8.4
7469.483333	42.57	---	74.00	31.43	100.0	V	231.0	8.6

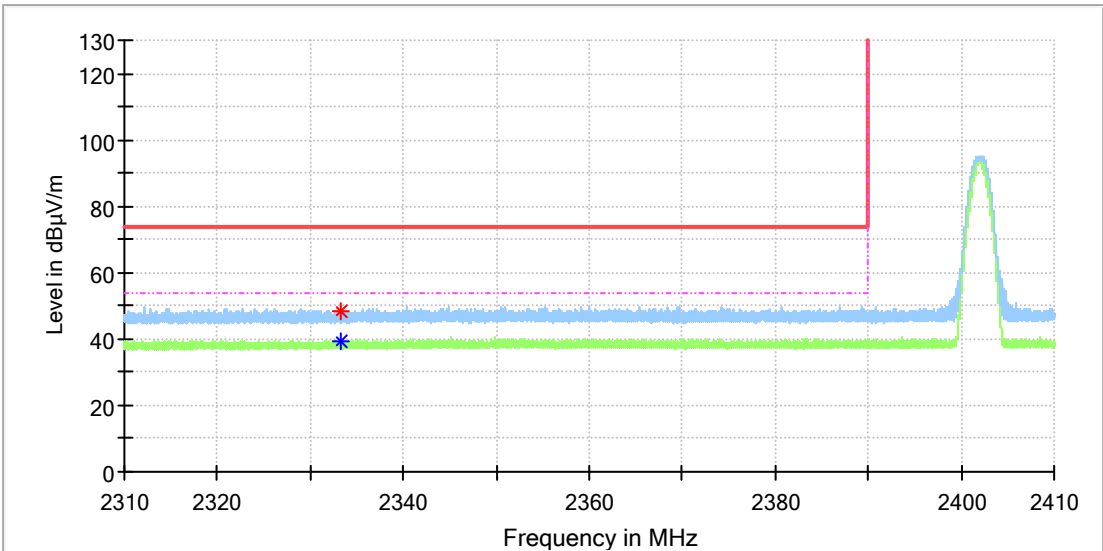
Final Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	Titan HD
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168392026/A003352666-001
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

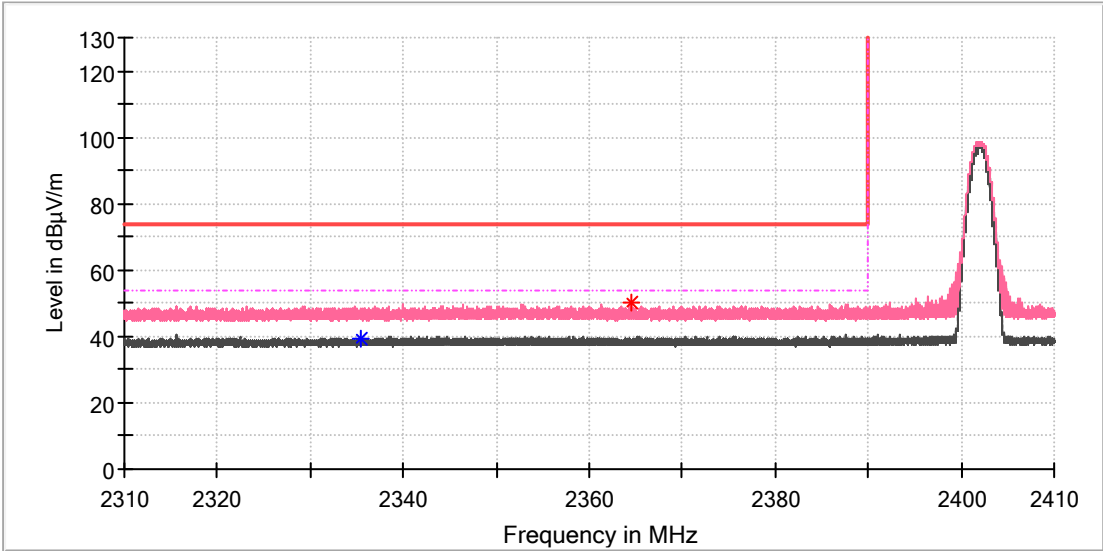
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.265000	---	39.29	54.00	14.71	100.0	H	89.0	6.7
2333.310000	48.44	---	74.00	25.56	100.0	H	214.0	6.7

Final_Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

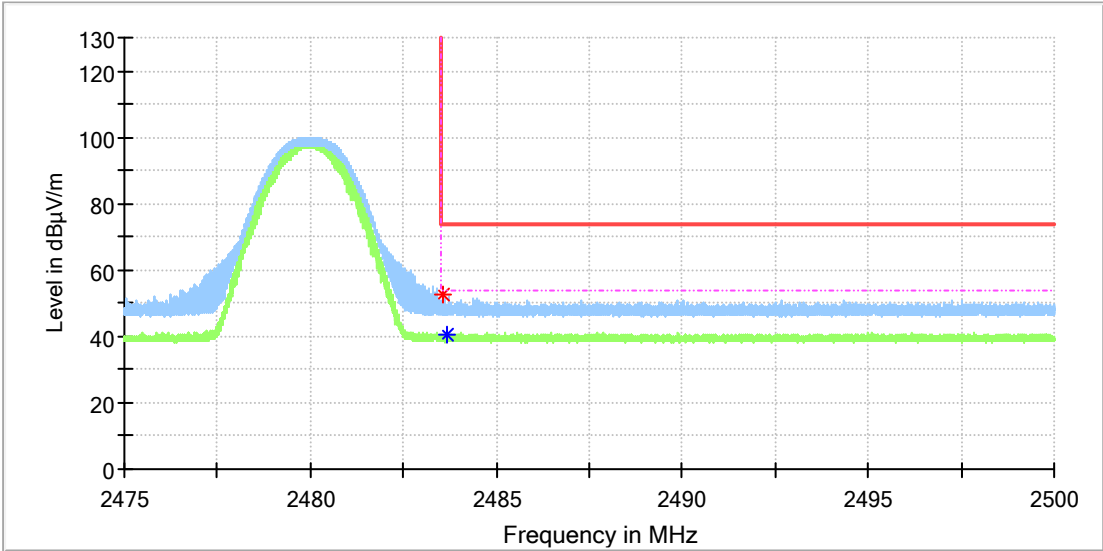
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2335.405000	---	39.43	54.00	14.57	100.0	V	92.0	6.8
2364.510000	50.06	---	74.00	23.94	100.0	V	302.0	6.9

Final_Result

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

EUT Information

EUT Name: Portable Thermal Camera
Model: Titan HD
Test Mode: BLE 1M_High channel
Order No/Sample No: 168392026/A003352666-001
Test Voltage: Battery
Remark: Temp 23 Humi:58%
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)
2483.543750	52.36	---	74.00	21.64	100.0	H	166.0	7.4
2483.673750	---	40.60	54.00	13.40	100.0	H	157.0	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:

Model:

Test Mode:

Order No/Sample No:

Test Voltage:

Remark:

Test Standard:

Tested By:

Reviewed By:

Portable Thermal Camera

Titan HD

BLE 1M_High channel

168392026/A003352666-001

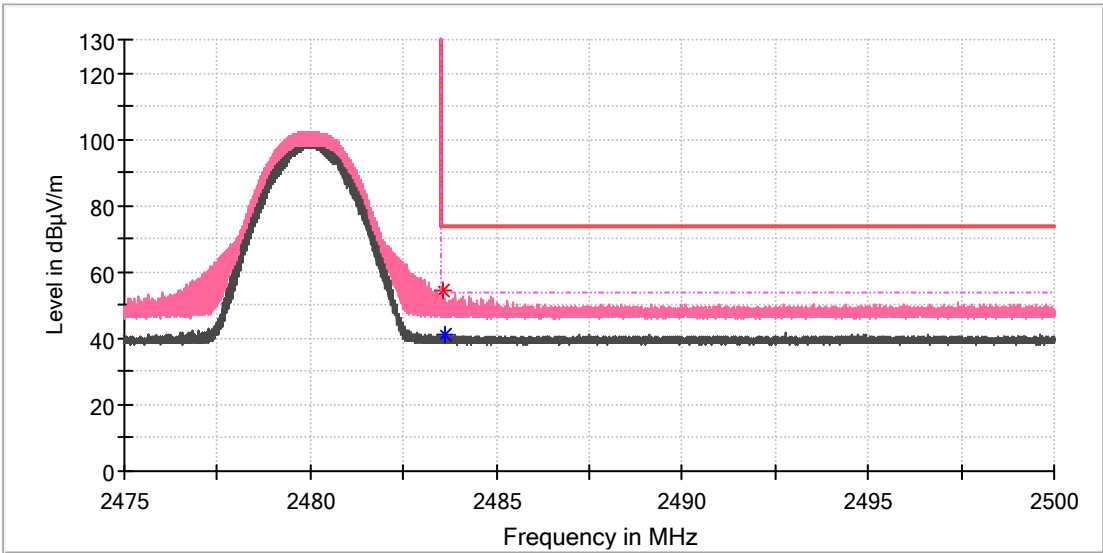
Battery

Temp 23 Humi:58%

FCC 15.247

Kei Zhang

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)
2483.581250	54.63	---	74.00	19.37	100.0	V	348.0	7.4
2483.607500	---	40.84	54.00	13.16	100.0	V	356.0	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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