

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

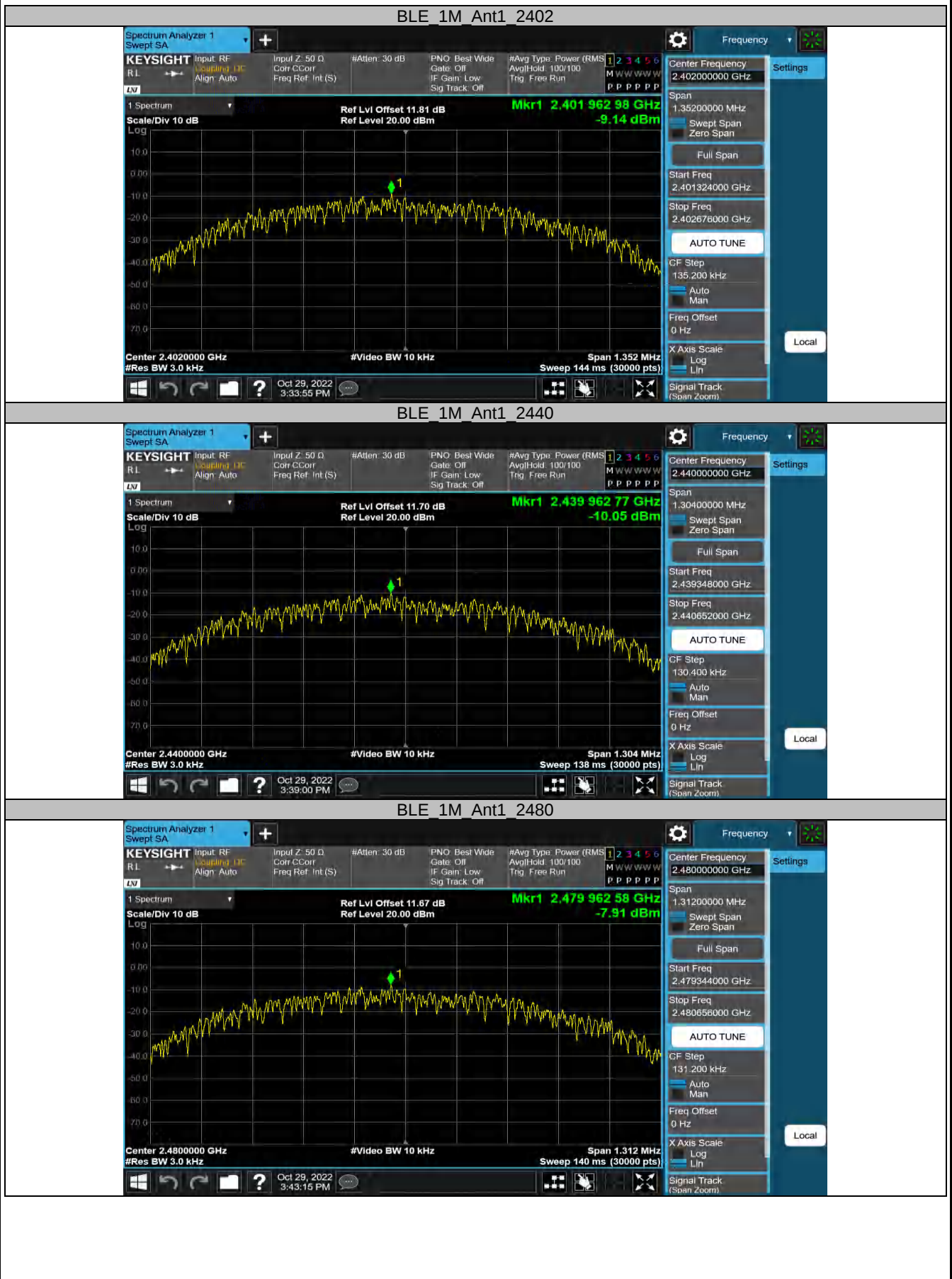
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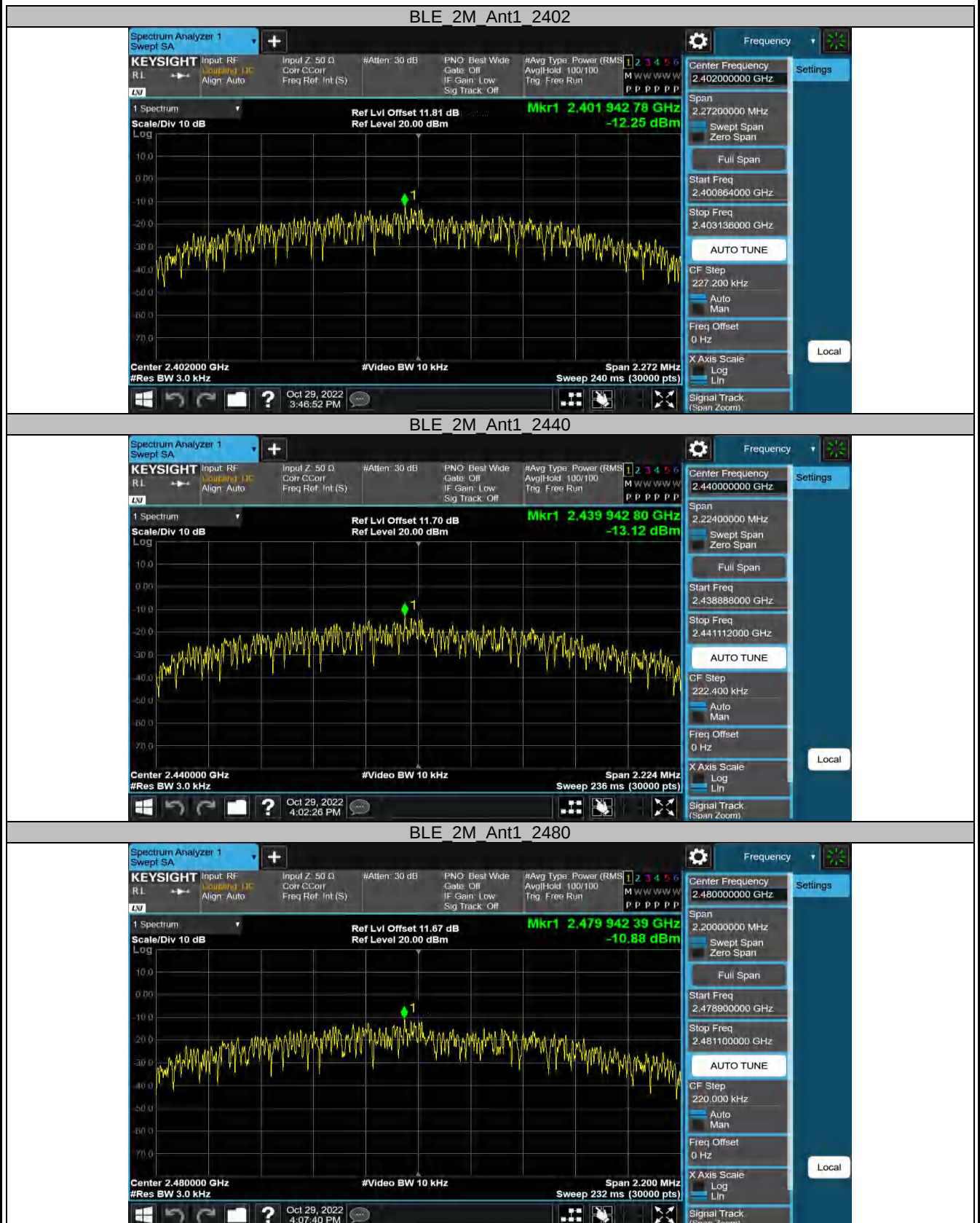
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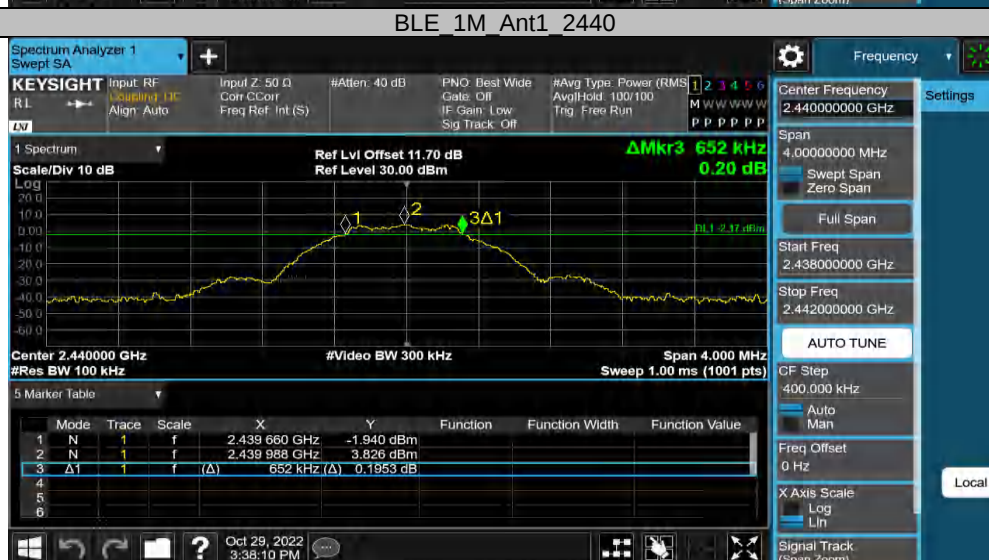
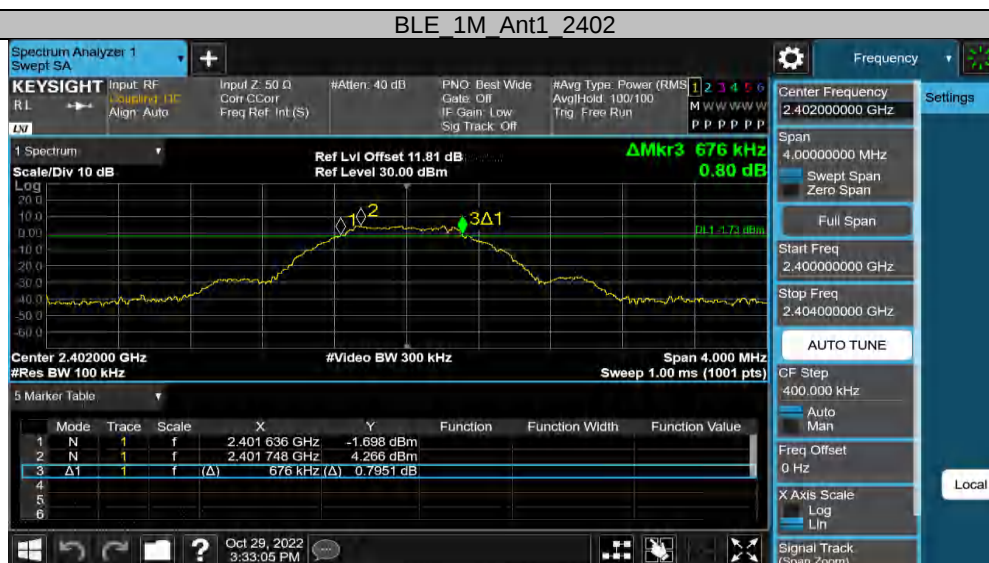
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Appendix C.2: Test Results of 6dB Bandwidth

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



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BLE 2M Ant1 2402



BLE 2M Ant1 2440

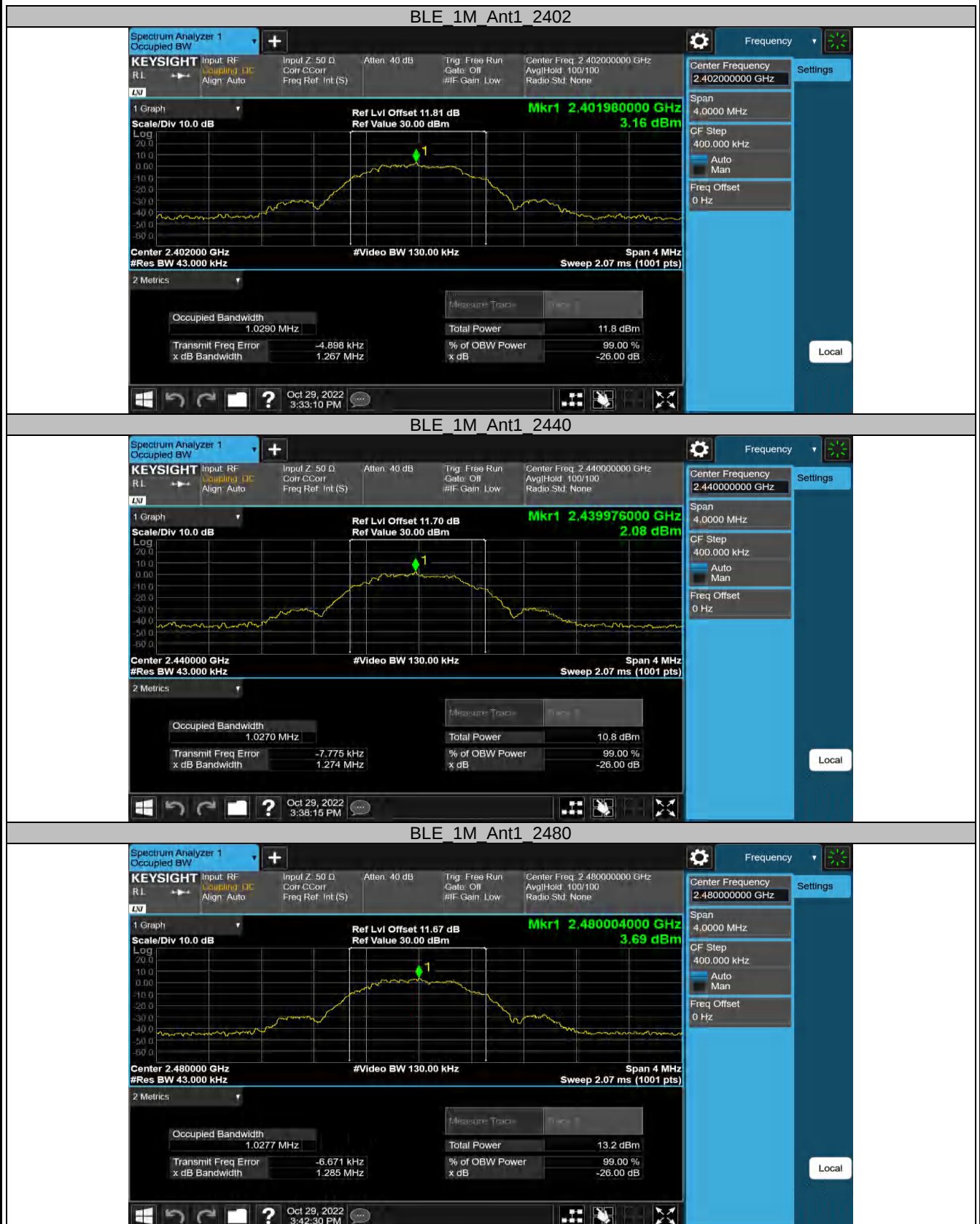


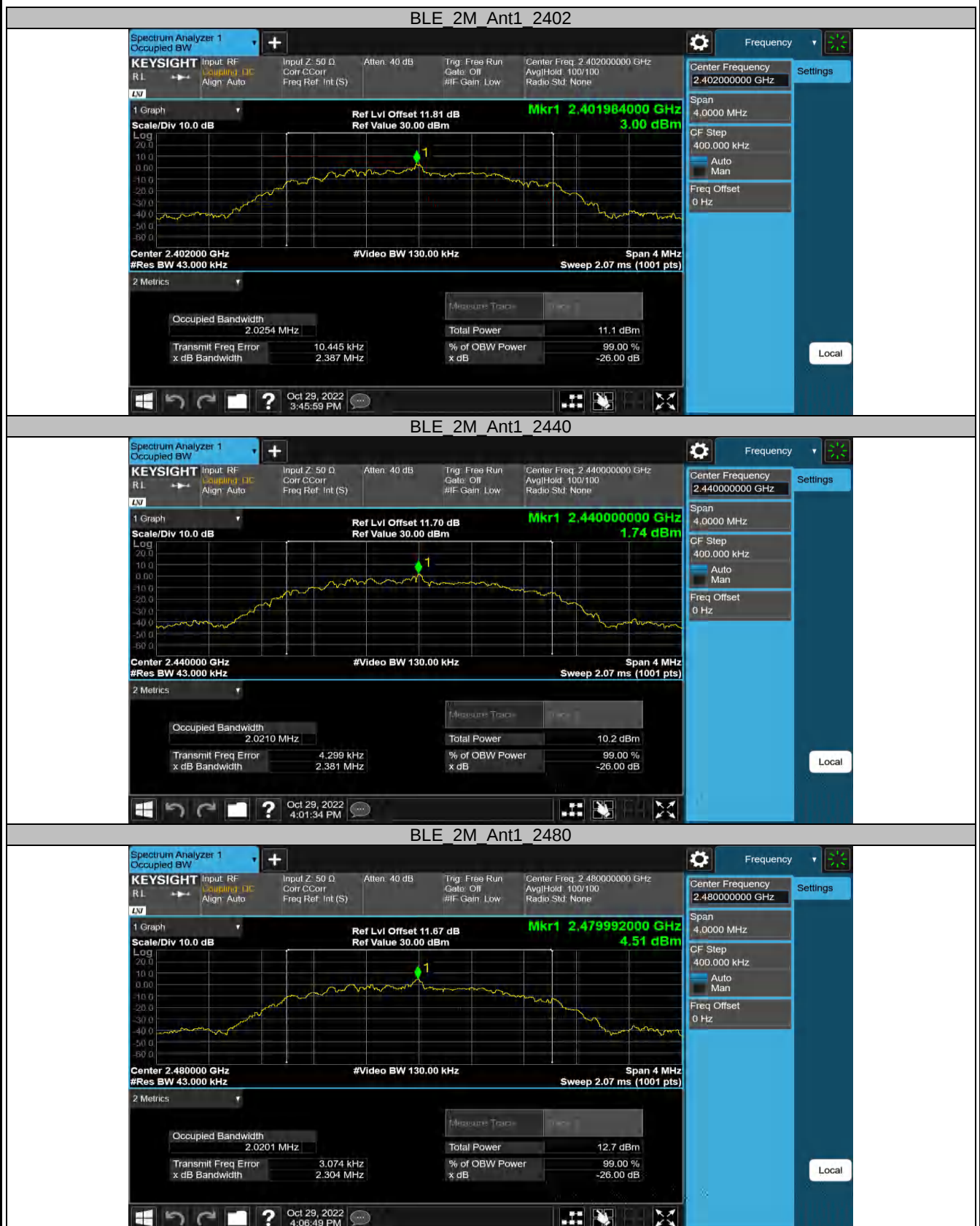
BLE 2M Ant1 2480



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	---	---





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

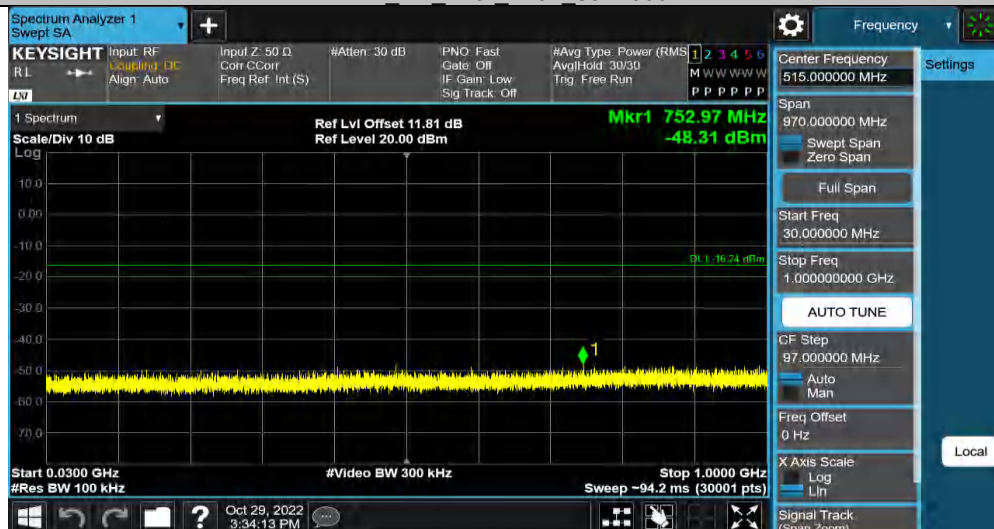
Conducted Spurious Emission

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

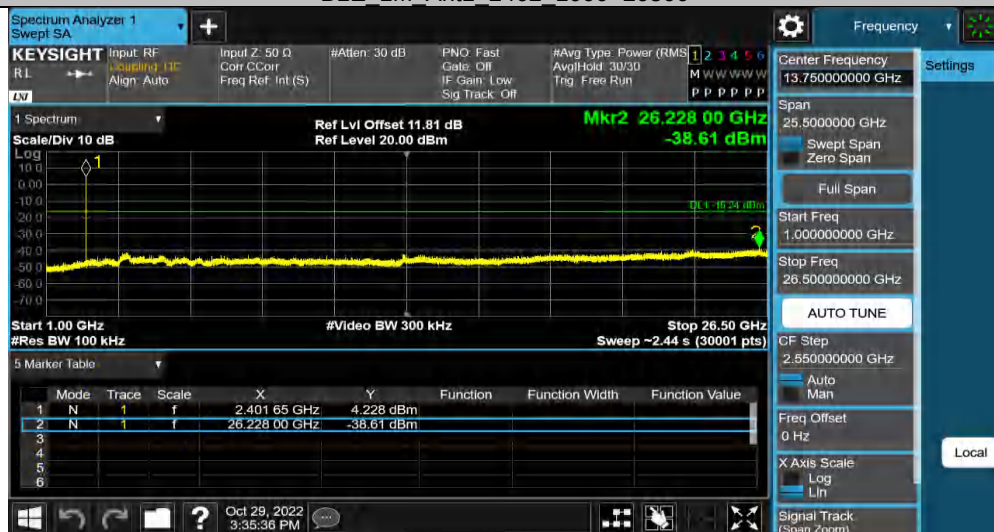
BLE 1M Ant1 2402 0-Reference



BLE 1M Ant1 2402 30-1000

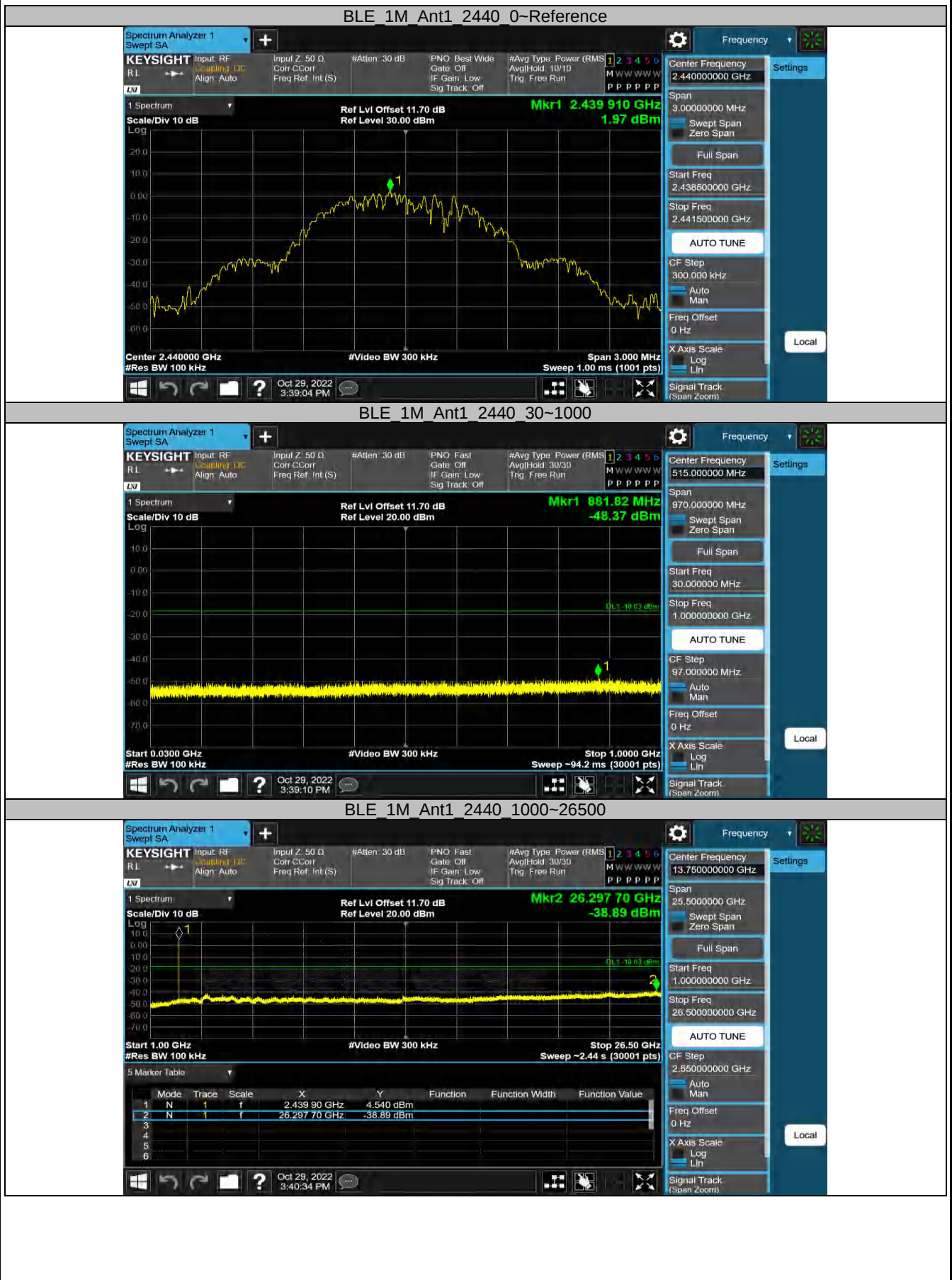


BLE 1M Ant1 2402 1000-26500

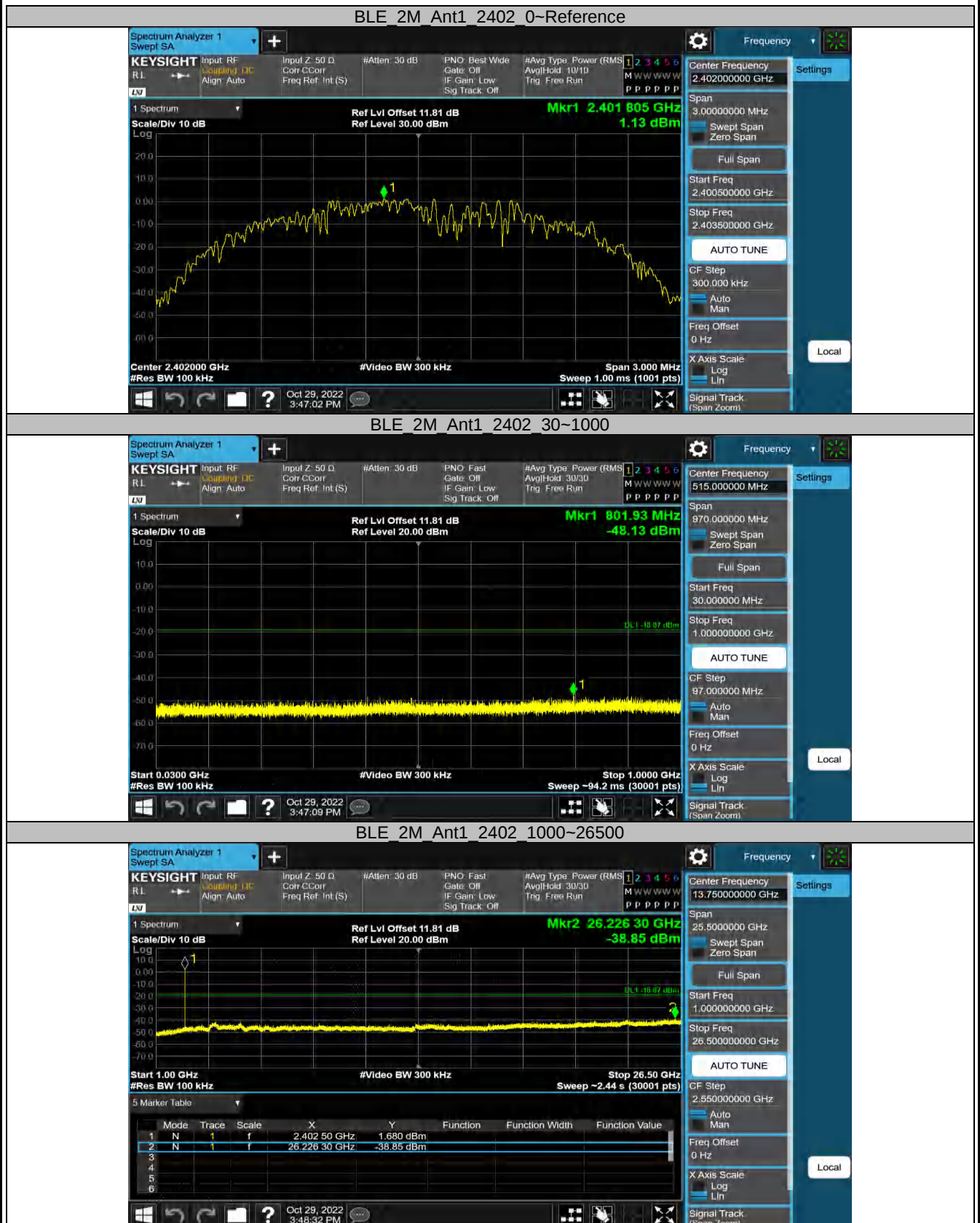


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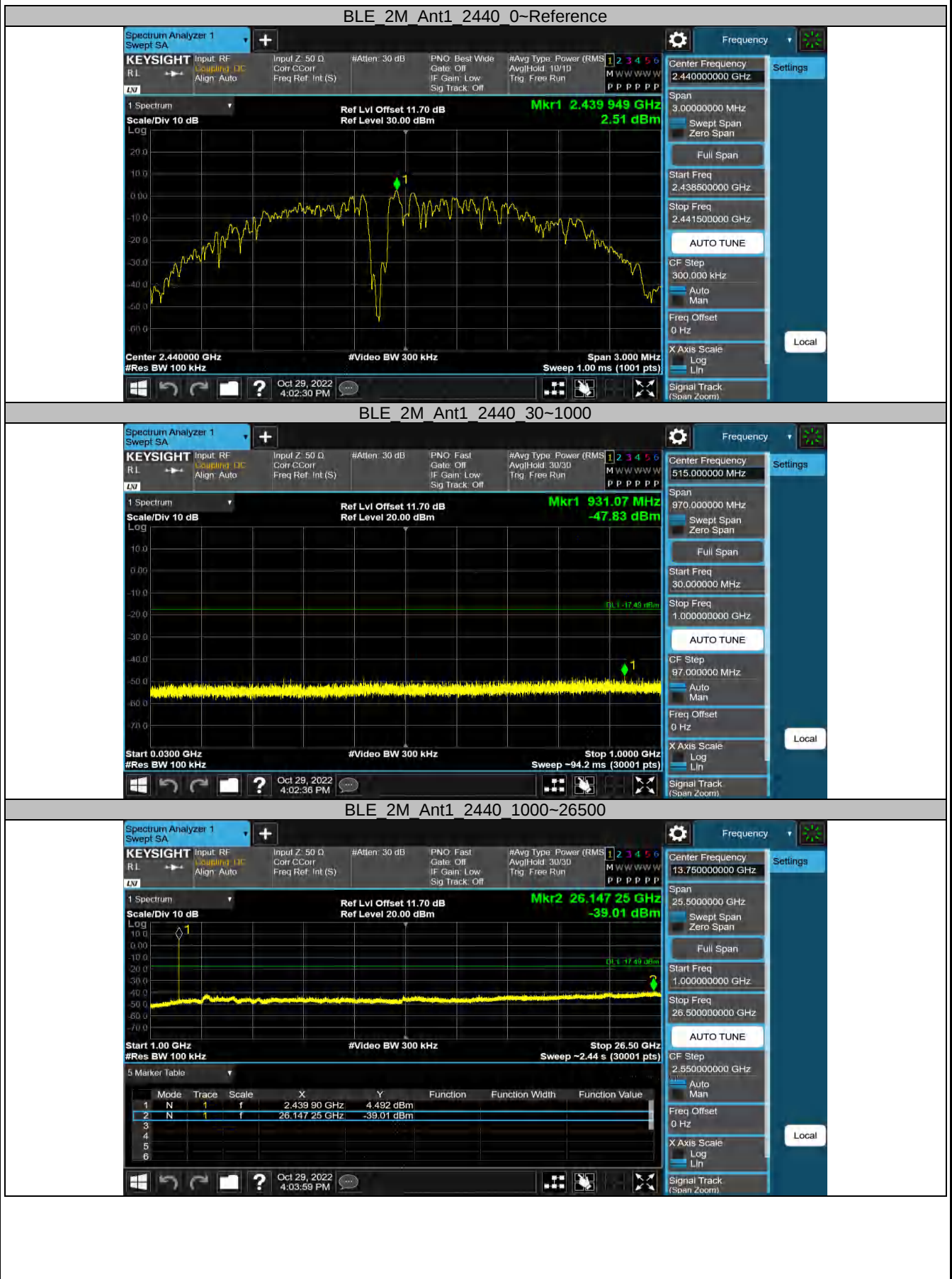


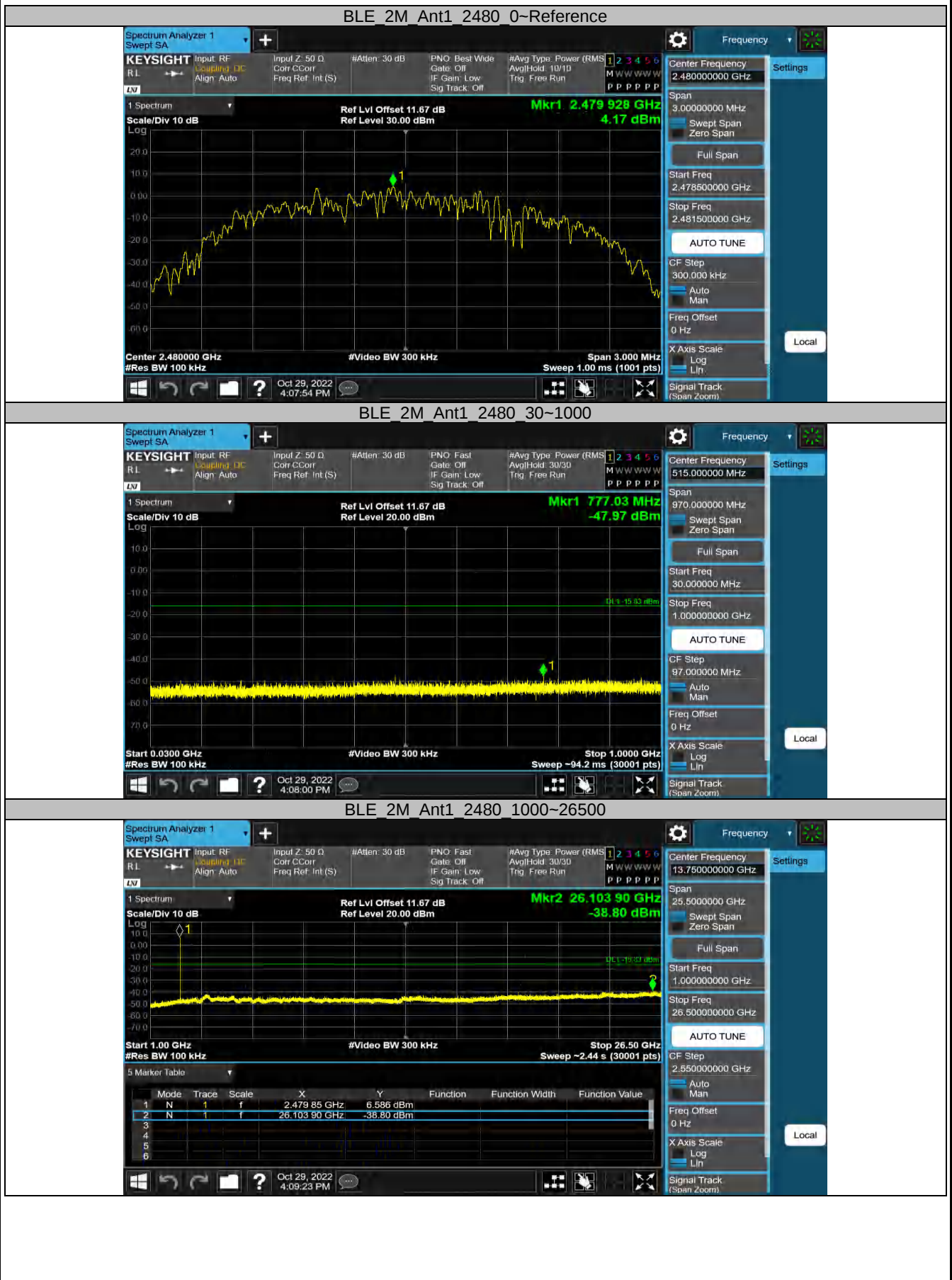




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Band Edge

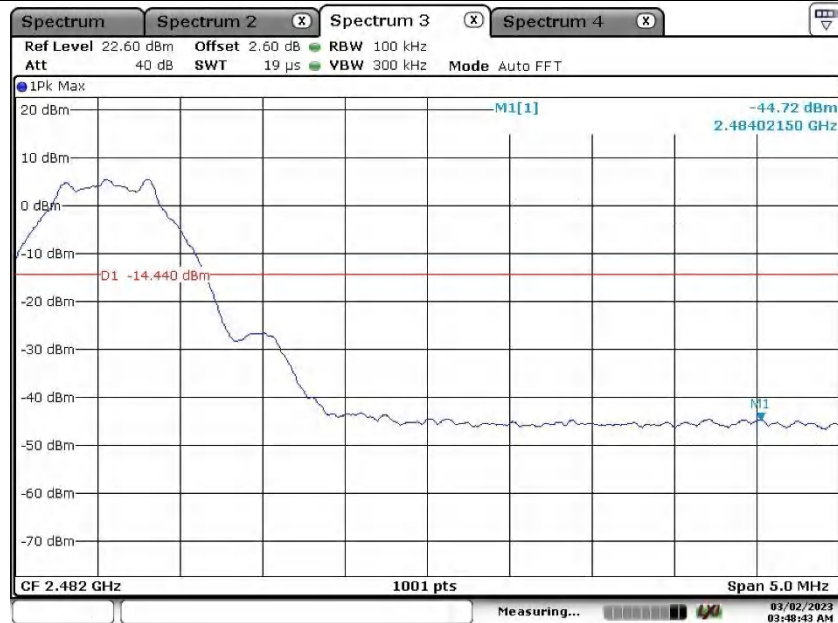
TestMode	Antenna	ChName	Channel	Verdict
BLE_1M	Ant1	Low	2402	PASS
		High	2480	PASS
BLE_2M	Ant1	Low	2402	PASS
		High	2480	PASS

BLE 1M Ant1 Low 2402



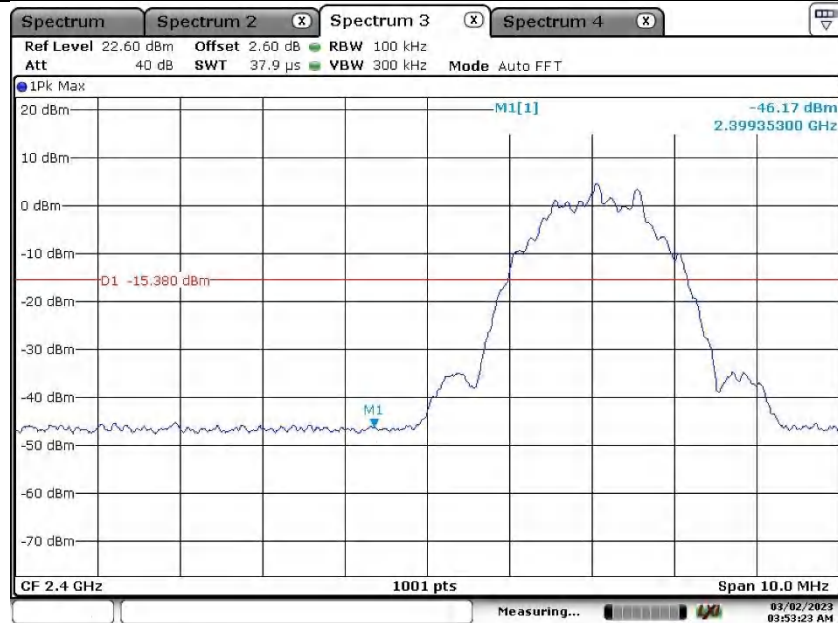
Date: 2.MAR.2023 03:42:36

BLE 1M Ant1 High 2480



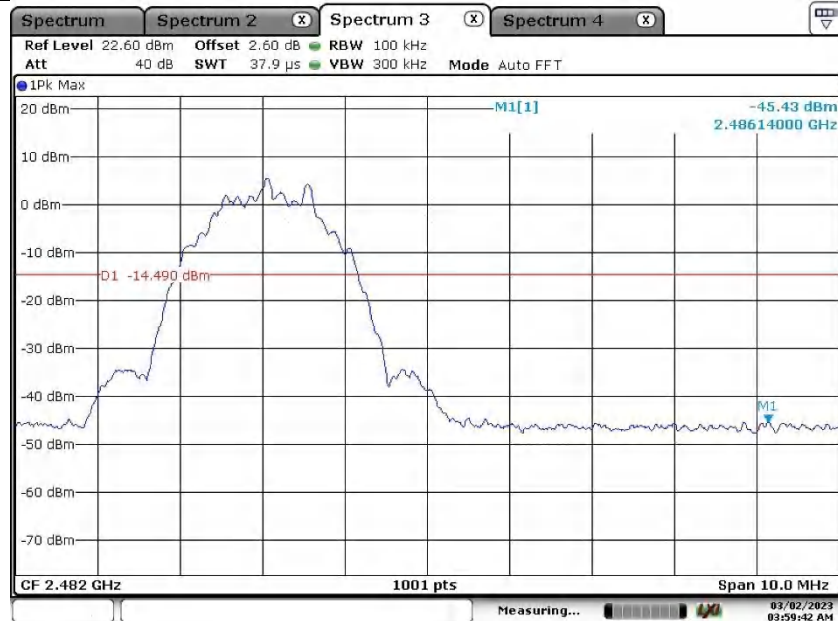
Date: 2.MAR.2023 03:48:43

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

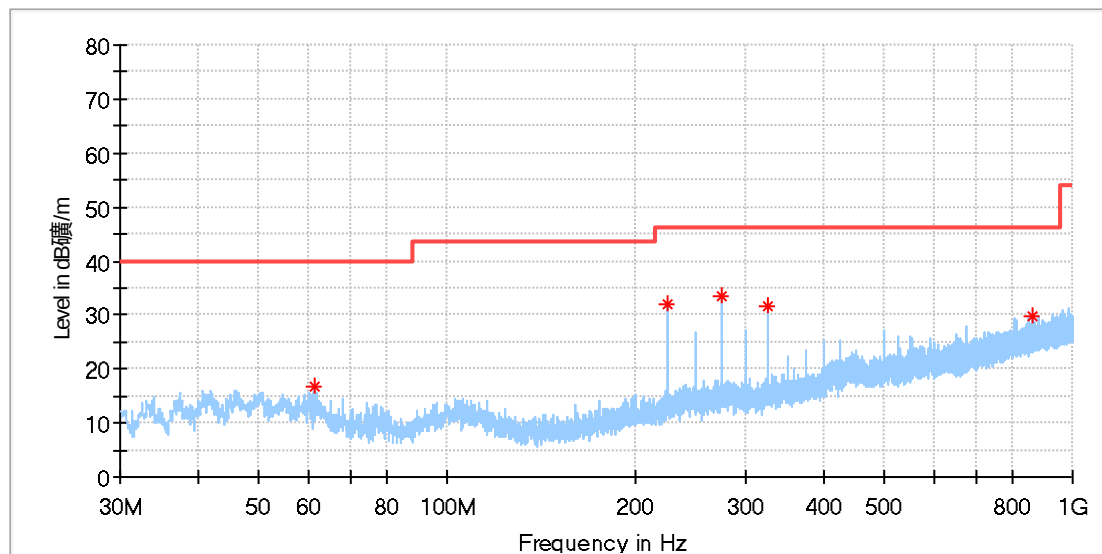
Note:

- 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:	S1280
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

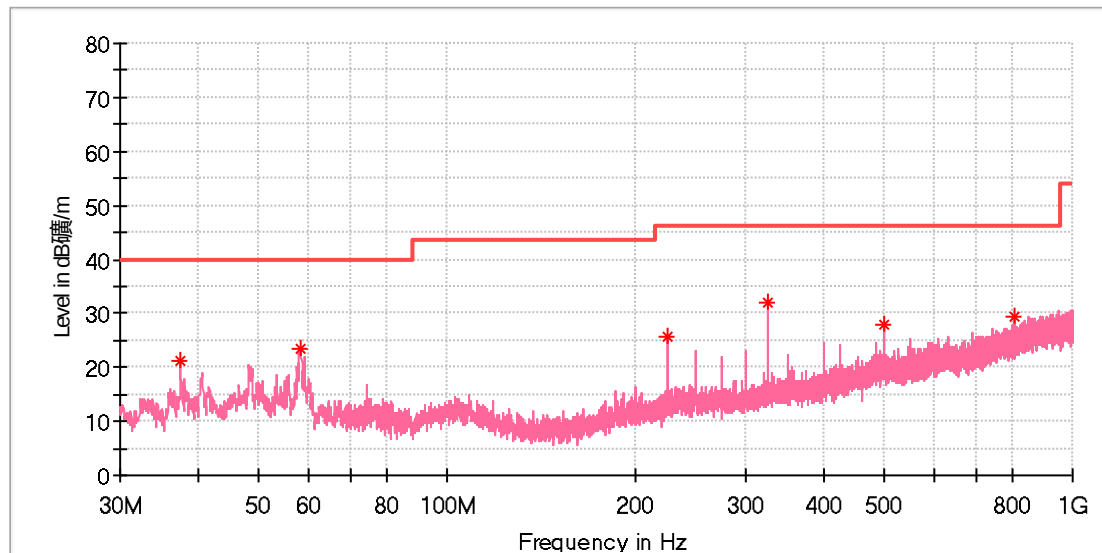
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
61.185500	16.61	40.00	23.39	100.0	H	237.0	-19.2
225.018500	31.98	46.00	14.02	100.0	H	306.0	-18.3
275.022000	33.35	46.00	12.65	100.0	H	168.0	-16.8
325.025500	31.54	46.00	14.46	100.0	H	284.0	-15.6
864.830500	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:	S1280
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

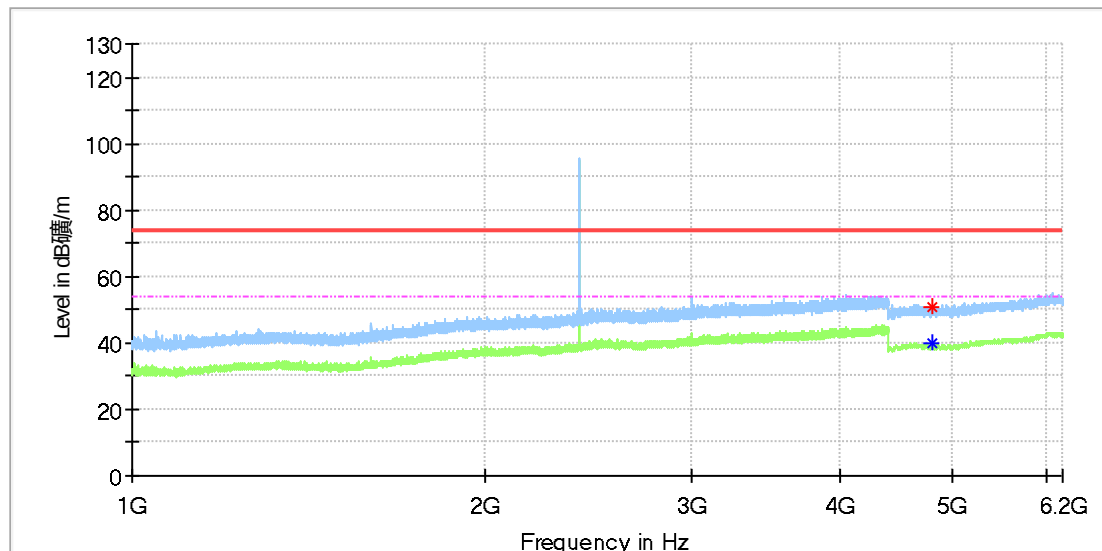
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	S1280
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

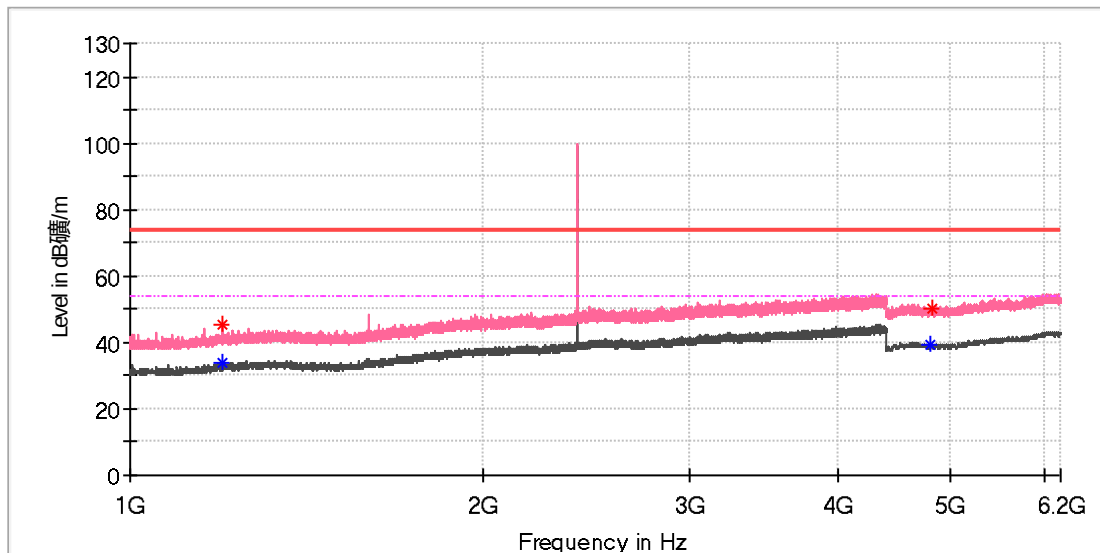
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	39.65	54.00	14.35	100.0	H	251.0	11.8
4806.500000	50.56	---	74.00	23.44	100.0	H	258.0	11.8

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:	S1280
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

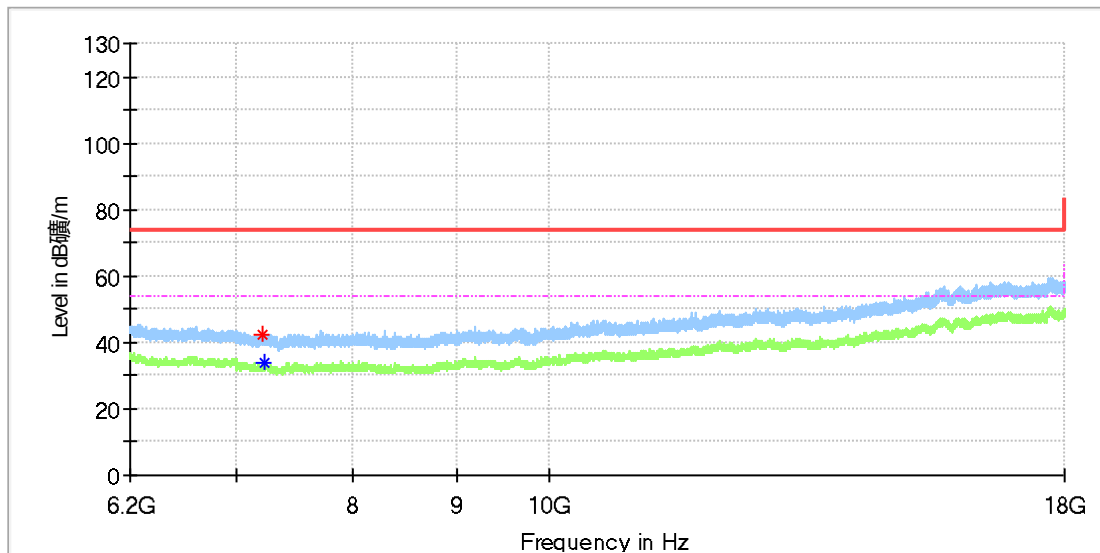
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.180000	---	33.83	54.00	20.17	100.0	V	99.0	1.1
1198.730000	45.55	---	74.00	28.45	100.0	V	248.0	1.1
4807.500000	---	39.41	54.00	14.59	100.0	V	312.0	11.8
4820.000000	50.45	---	74.00	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:	Portable Thermal Camera
Model:	S1280
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

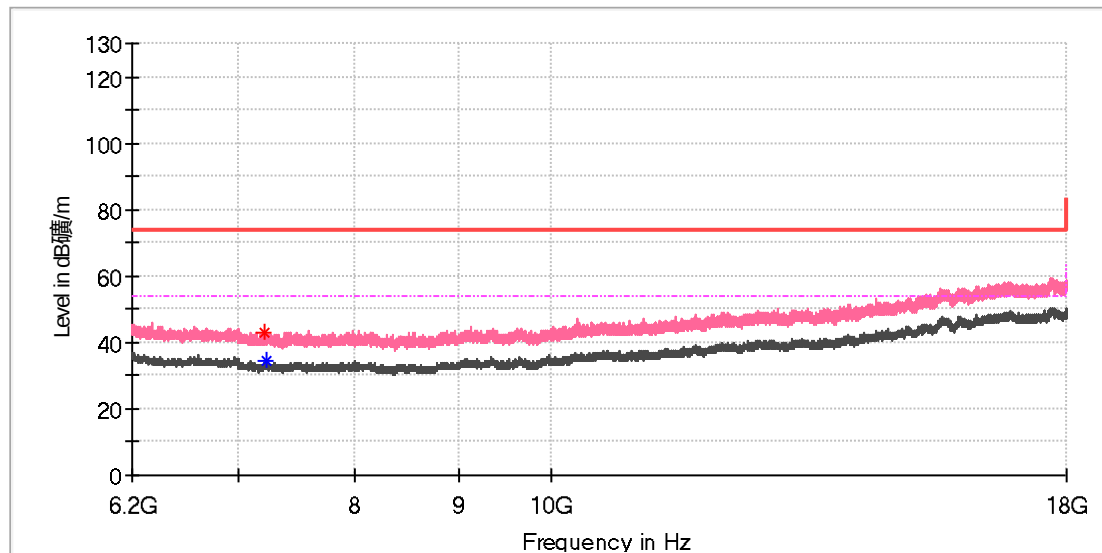
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7212.833333	42.20	---	74.00	31.80	100.0	H	337.0	8.7
7223.158333	---	33.72	54.00	20.28	100.0	H	121.0	8.7

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:	S1280
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

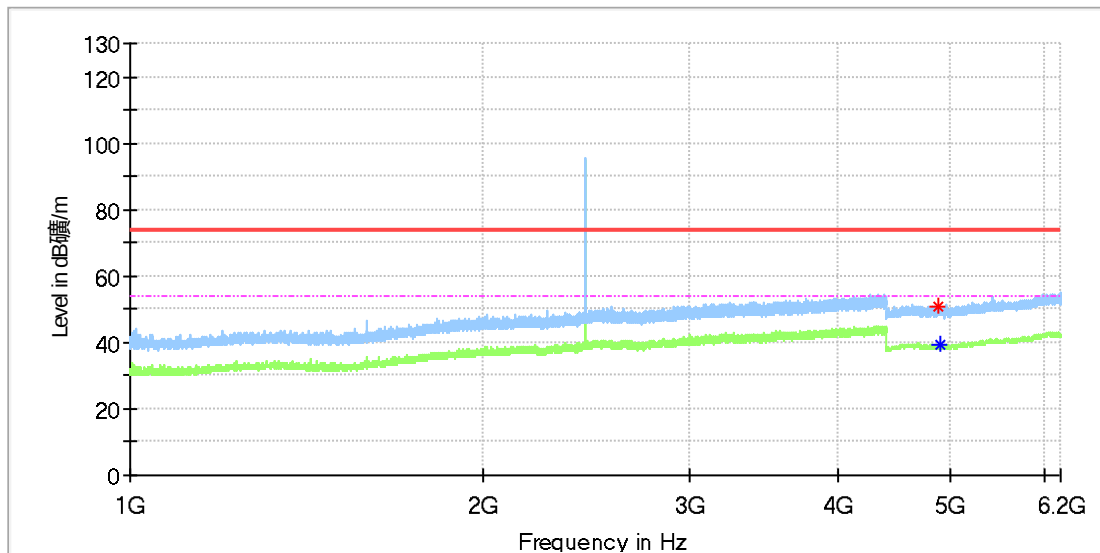
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.408333	43.11	---	74.00	30.89	100.0	V	192.0	8.8
7231.025000	---	34.25	54.00	19.75	100.0	V	58.0	8.6

Final_Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	S1280
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

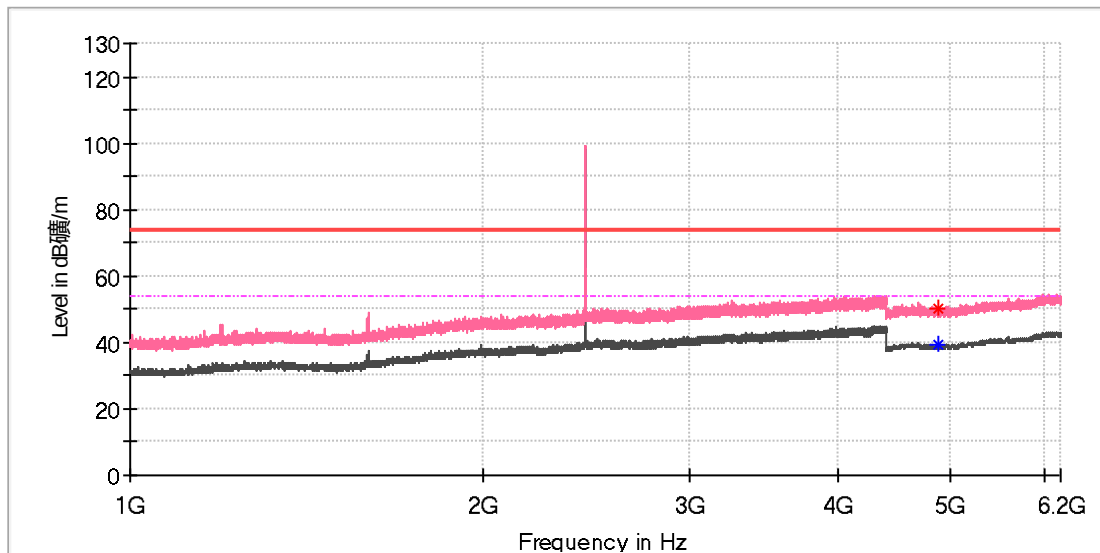
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	50.54	---	74.00	23.46	100.0	H	279.0	11.8
4905.500000	---	39.03	54.00	14.97	100.0	H	33.0	11.8

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:	S1280
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

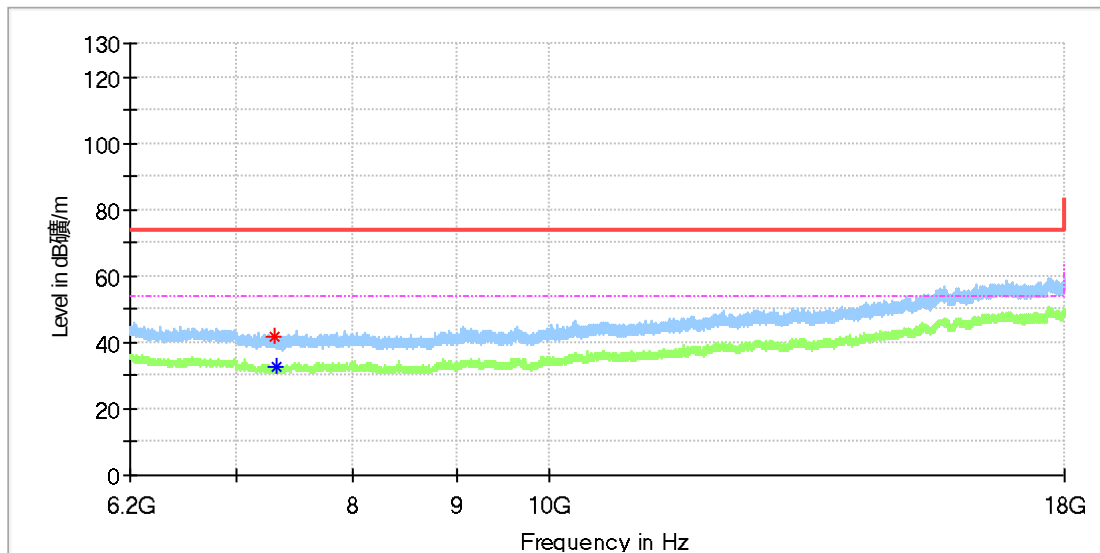
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	---	39.26	54.00	14.74	100.0	V	297.0	11.8
4878.500000	50.38	---	74.00	23.62	100.0	V	346.0	11.8

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:	S1280
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

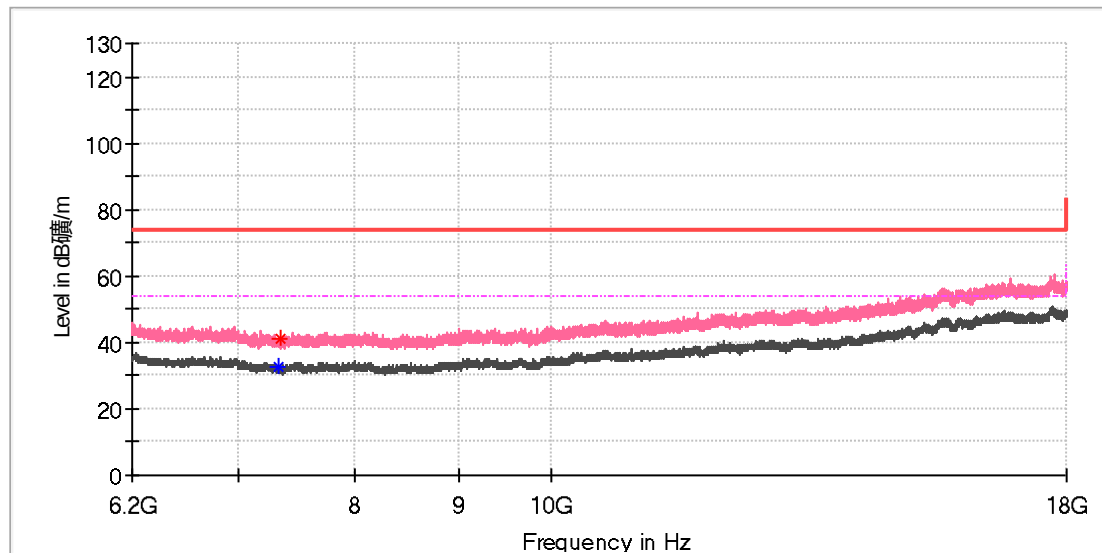
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7306.741667	41.74	---	74.00	32.26	100.0	H	60.0	8.3
7323.950000	---	32.93	54.00	21.07	100.0	H	201.0	8.2

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:	S1280
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

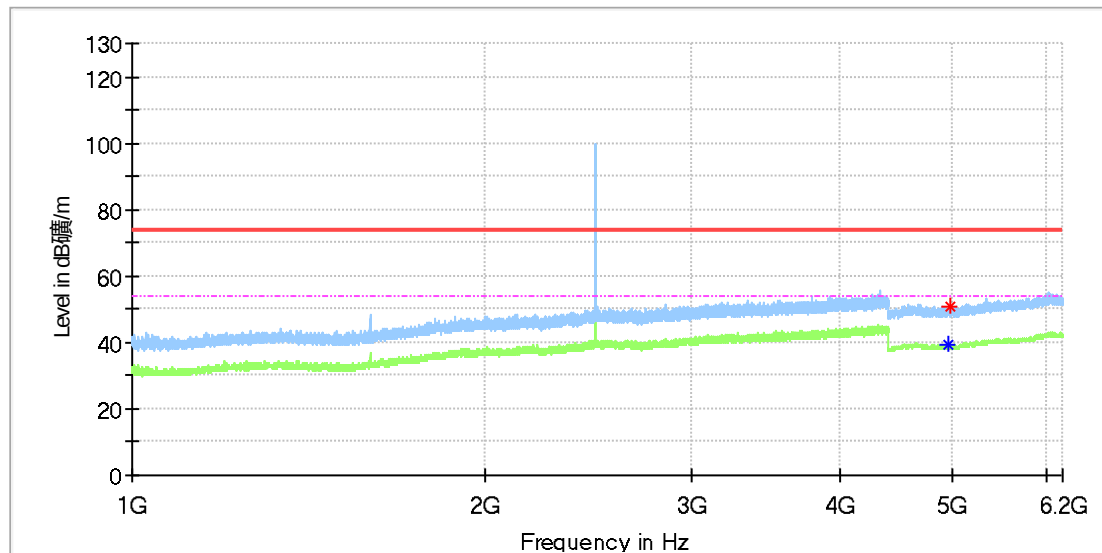
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7328.866667	---	32.84	54.00	21.16	100.0	V	0.0	8.1
7339.191667	41.31	---	74.00	32.69	100.0	V	87.0	8.1

Final_Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	S1280
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

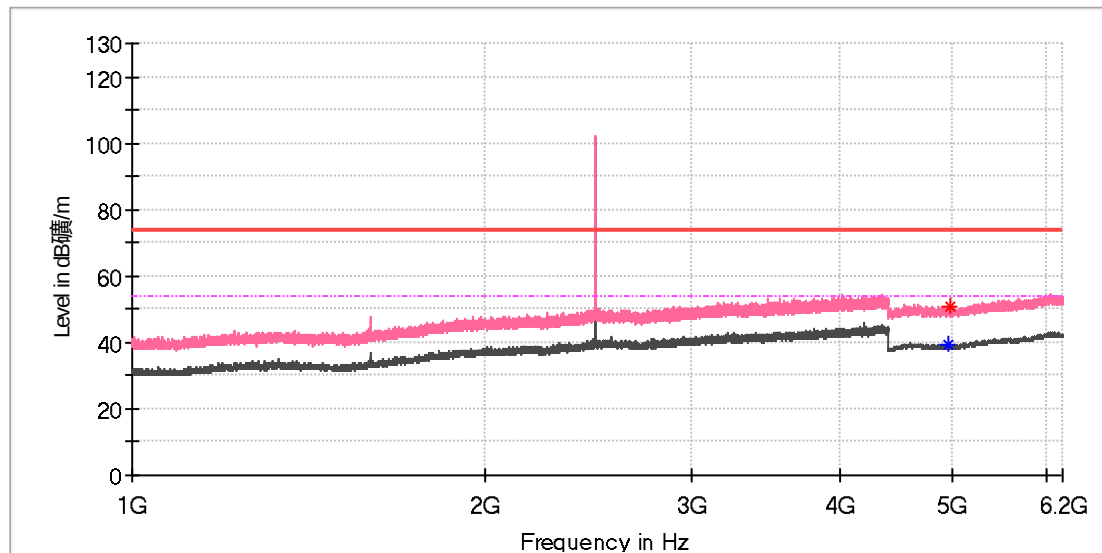
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.500000	---	39.18	54.00	14.82	100.0	H	220.0	11.8
4973.500000	50.97	---	74.00	23.03	100.0	H	349.0	11.8

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:	S1280
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

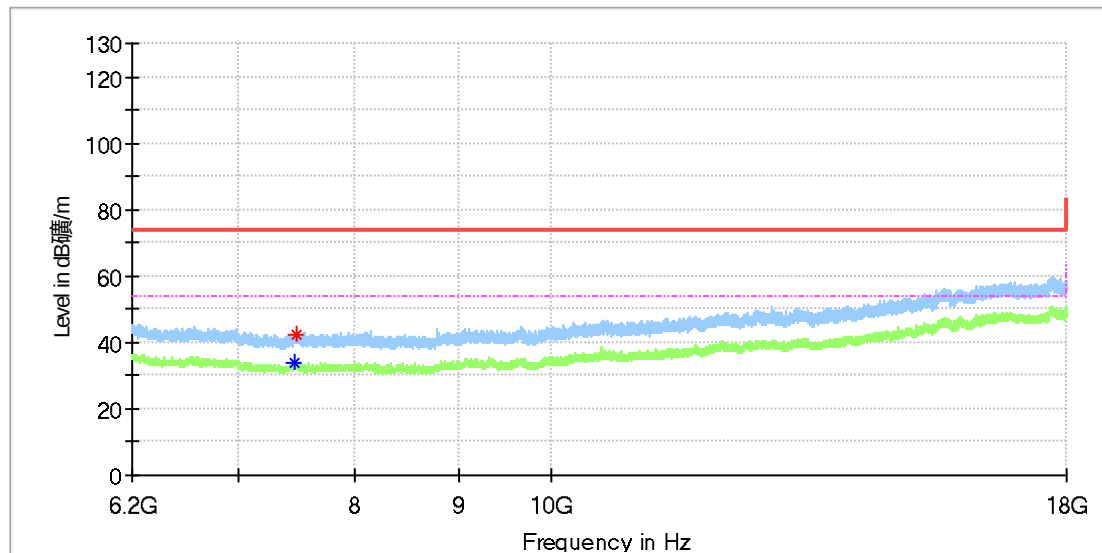
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.000000	---	39.25	54.00	14.75	100.0	V	24.0	11.8
4969.000000	50.55	---	74.00	23.45	100.0	V	336.0	11.8

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:	S1280
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

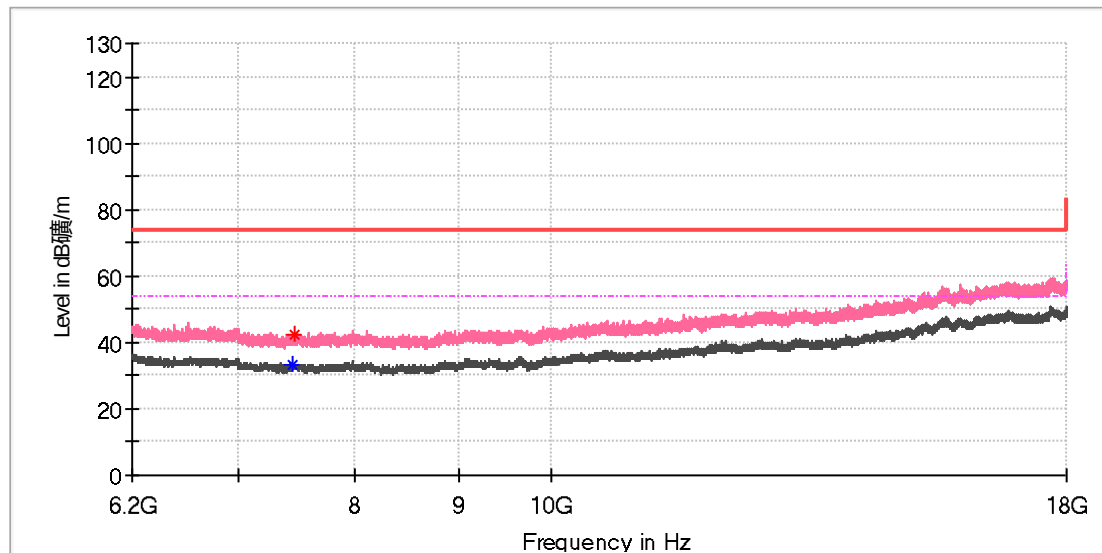
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7466.041667	---	33.72	54.00	20.28	100.0	H	110.0	8.6
7474.891667	42.29	---	74.00	31.71	100.0	H	94.0	8.6

Final_Result

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

EUT Name:	Portable Thermal Camera
Model:	S1280
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

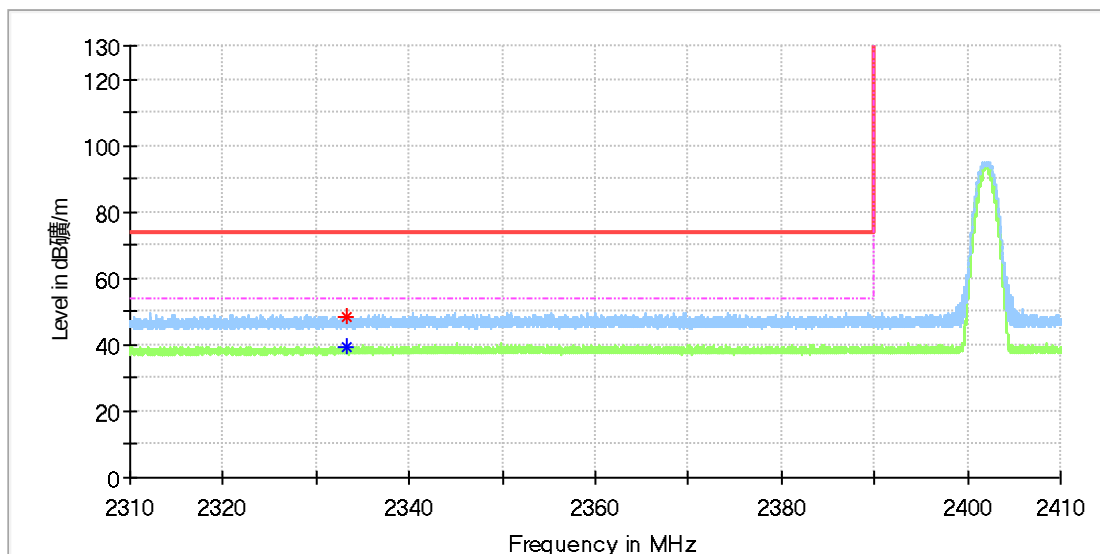
Final_Result

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:	S1280
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

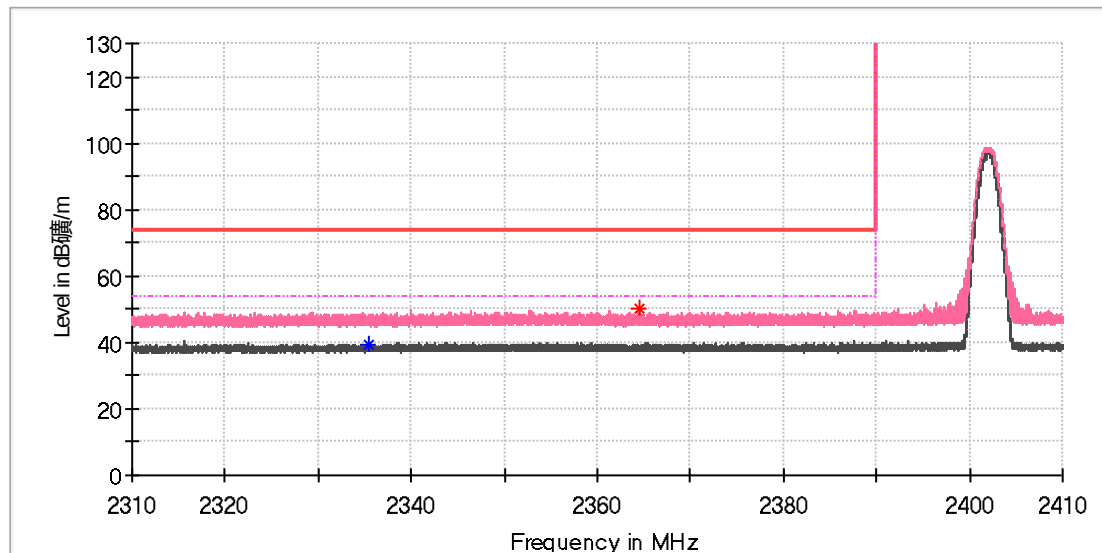
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.265000	---	39.29	54.00	14.71	100.0	H	89.0	6.7
2333.310000	48.44	---	74.00	25.56	100.0	H	214.0	6.7

Final Result

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

EUT Name:	Portable Thermal Camera
Model:	S1280
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

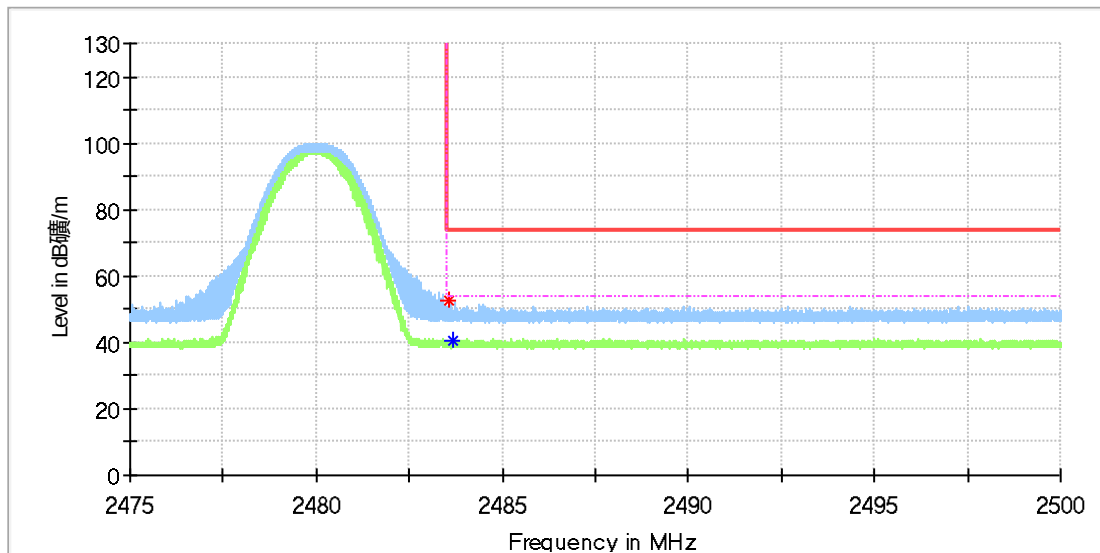
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2335.405000	---	39.43	54.00	14.57	100.0	V	92.0	6.8
2364.510000	50.06	---	74.00	23.94	100.0	V	302.0	6.9

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:	S1280
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

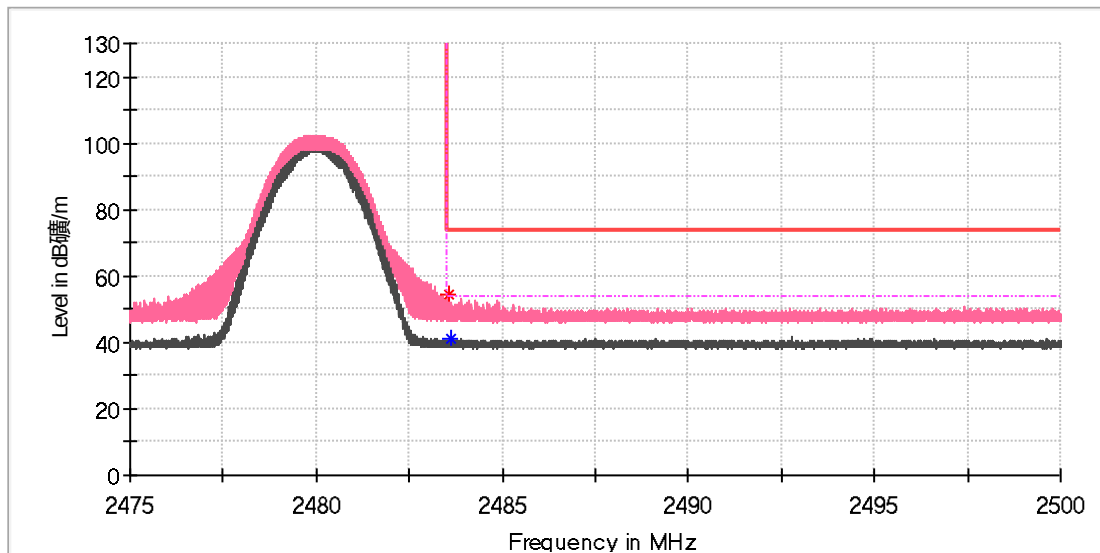
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.543750	52.36	---	74.00	21.64	100.0	H	166.0	7.4
2483.673750	---	40.60	54.00	13.40	100.0	H	157.0	7.4

Final_Result

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

EUT Information

EUT Name:	Portable Thermal Camera
Model:	S1280
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)
2483.581250	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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