

APPENDIX C: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

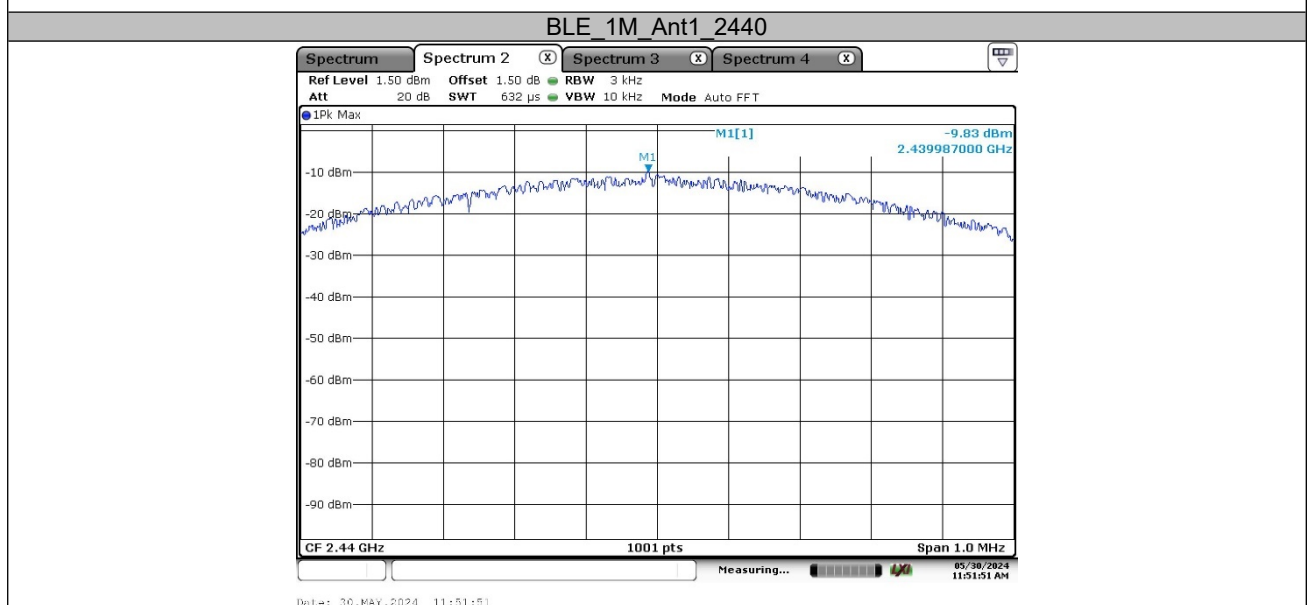
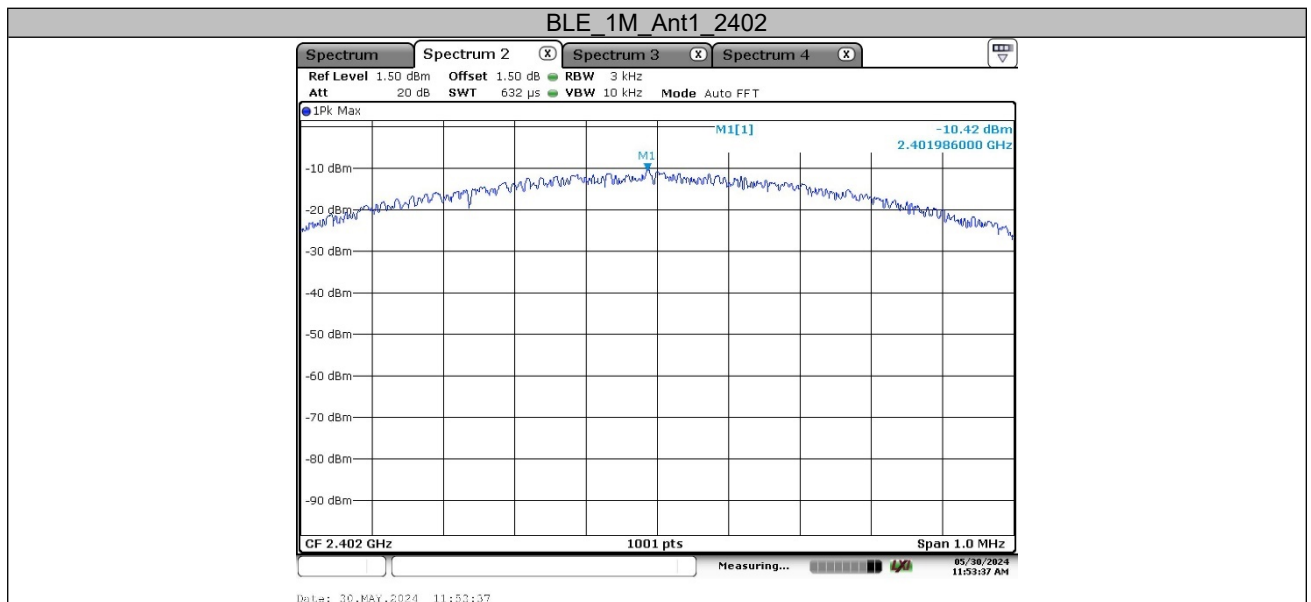
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APPENDIX C.1: CONDUCTED POWER SPECTRAL DENSITY

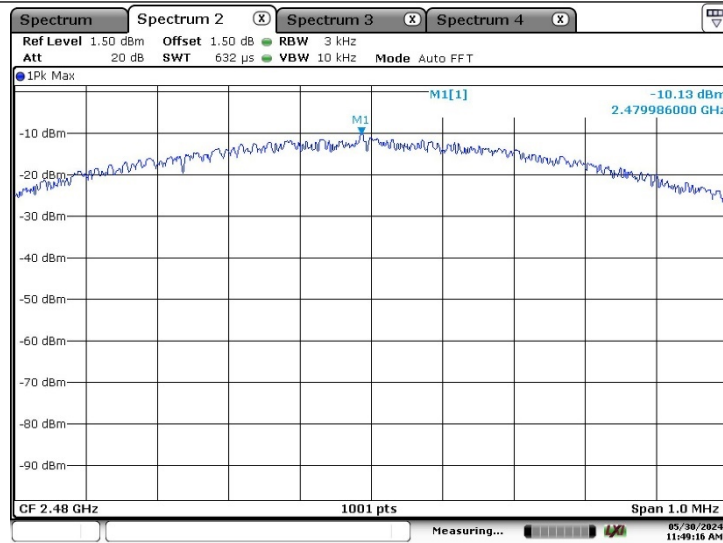
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.42	≤8.00	PASS
		2440	-9.83	≤8.00	PASS
		2480	-10.13	≤8.00	PASS
BLE_2M	Ant1	2402	-14.89	≤8.00	PASS
		2440	-14.47	≤8.00	PASS
		2480	-14.49	≤8.00	PASS
BLE_125K	Ant1	2402	-2.73	≤8.00	PASS
		2440	-1.05	≤8.00	PASS
		2480	-3.07	≤8.00	PASS
BLE_500K	Ant1	2402	-10.15	≤8.00	PASS
		2440	-8.52	≤8.00	PASS
		2480	-10.52	≤8.00	PASS

Test Graphs

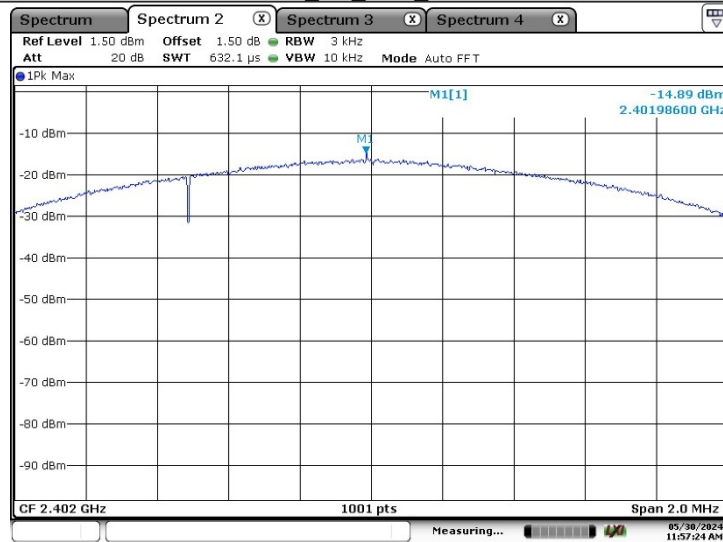


BLE_1M_Ant1_2480



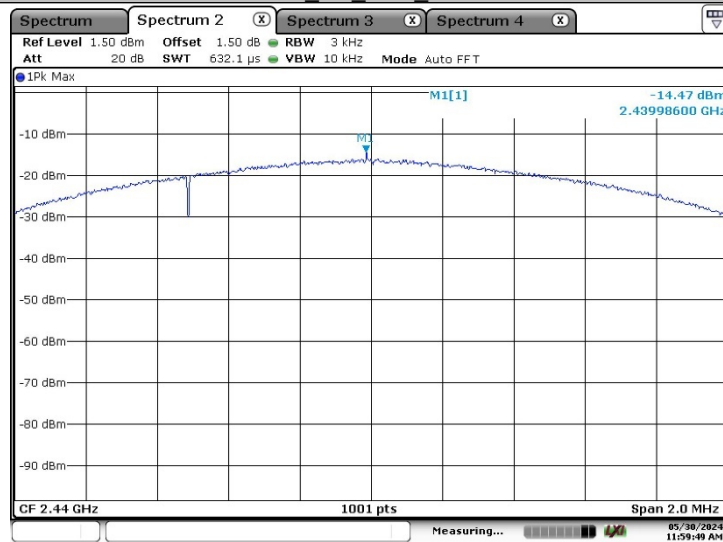
Date: 30.MAY.2024 11:49:17

BLE 2M Ant1 2402



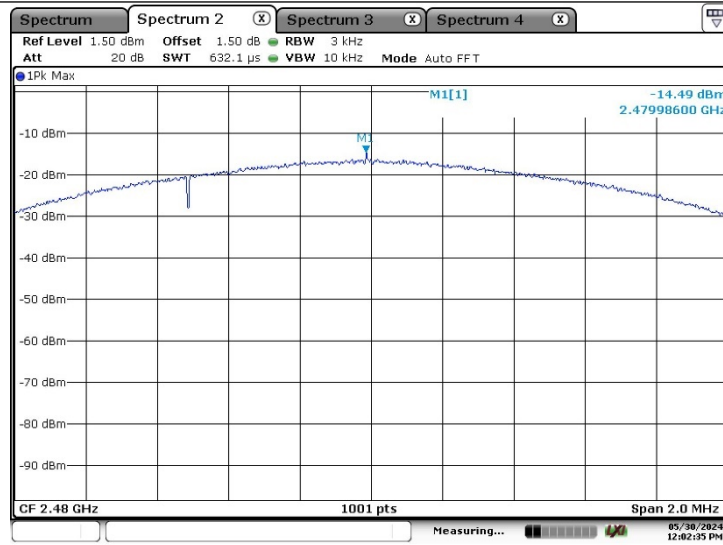
Date: 30.MAY.2024 11:57:24

BLE 2M Ant1 2440



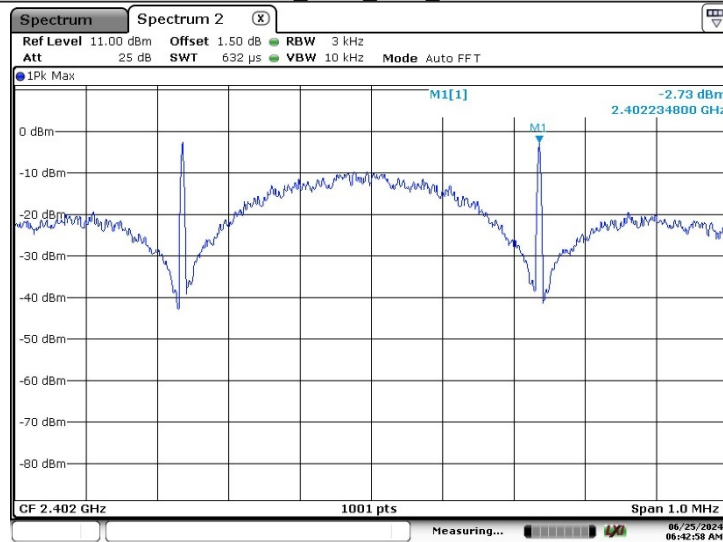
Date: 30.MAY.2024 11:59:50

BLE 2M Ant1 2480



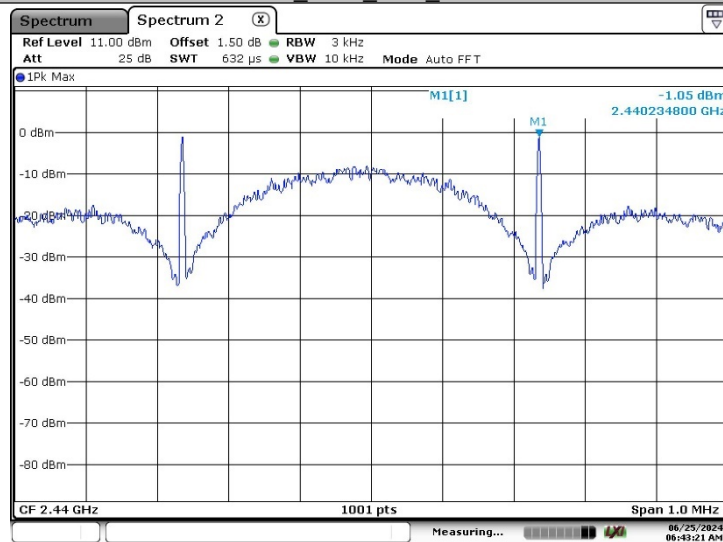
Date: 30.MAY.2024 12:02:36

BLE_125K_Ant1_2402



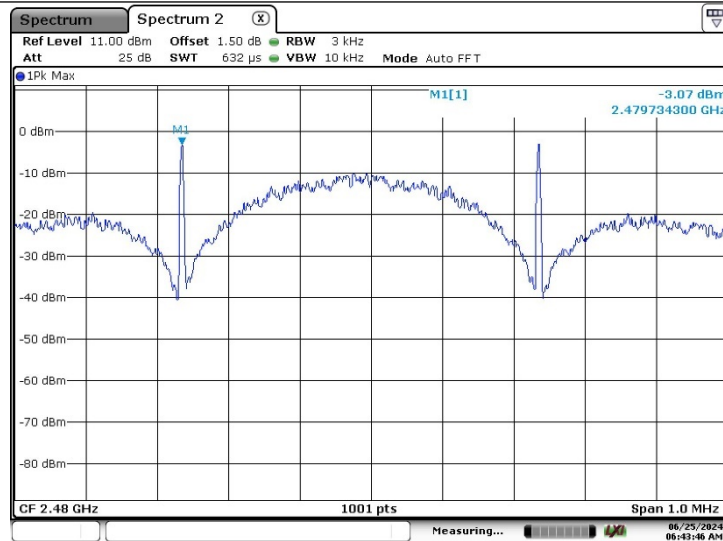
Date: 25.JUN.2024 06:42:59

BLE_125K_Ant1_2440



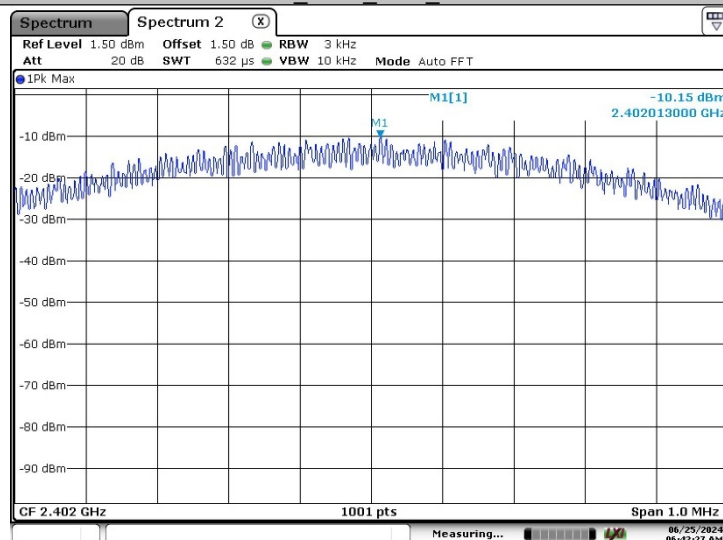
Date: 25.JUN.2024 06:43:21

BLE_125K_Ant1_2480



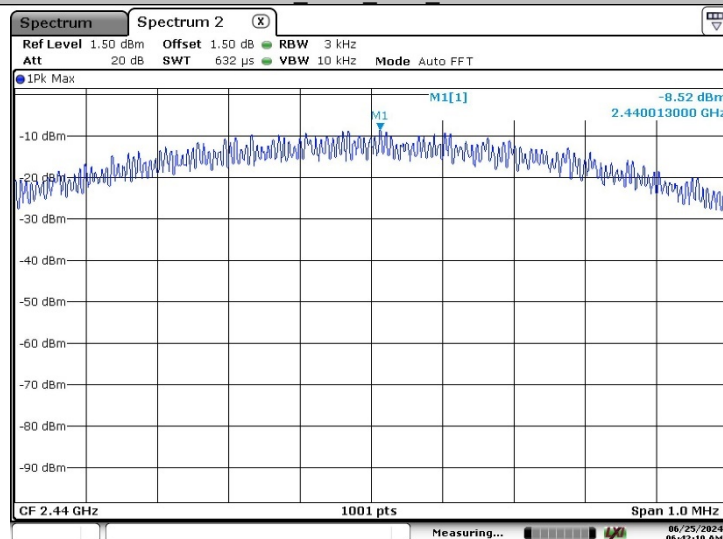
Date: 25.JUN.2024 06:43:46

BLE_500K_Ant1_2402



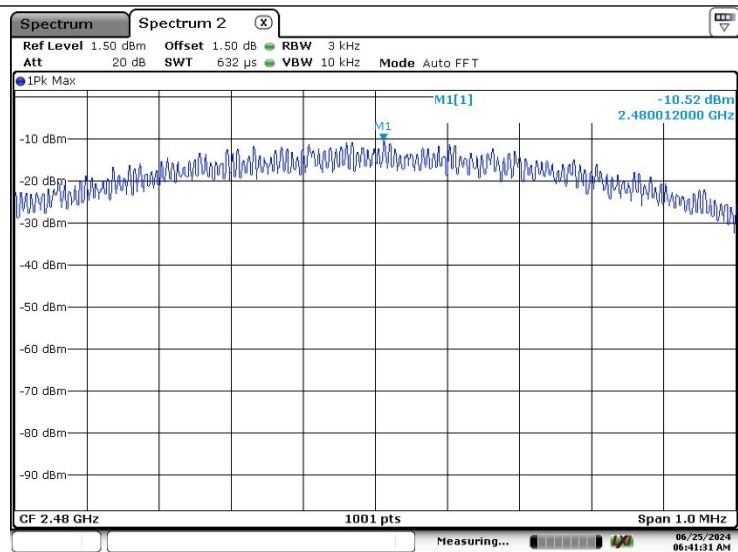
Date: 25.JUN.2024 06:42:28

BLE_500K_Ant1_2440



Date: 25.JUN.2024 06:42:19

BLE_500K_Ant1_2480



Date: 25.JUN.2024 06:41:31

APPENDIX C.2: 6dB BANDWIDTH

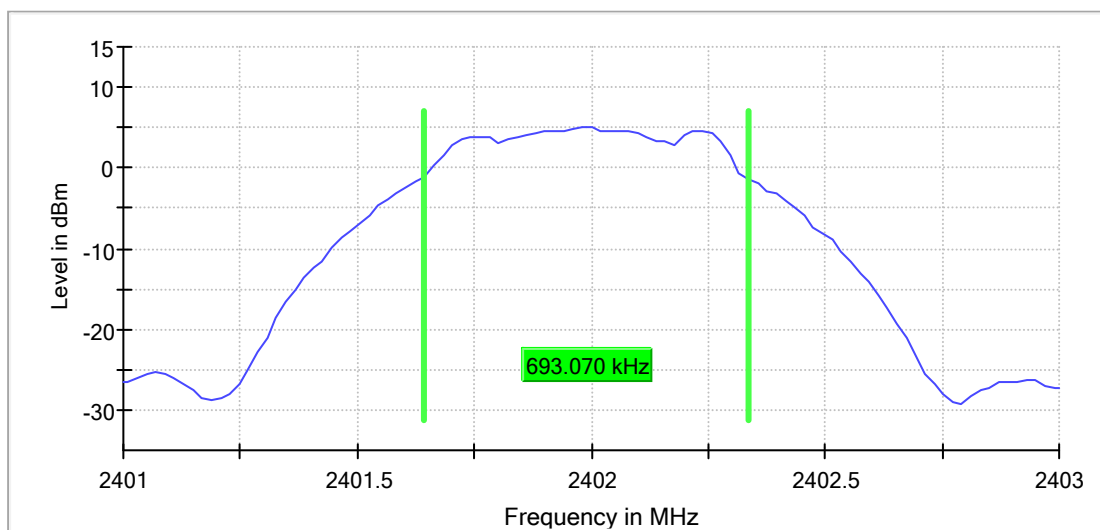
BLE_1M

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.693070	0.500000	---	2401.643564	2402.336634

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	5.1	PASS

6 dB Bandwidth

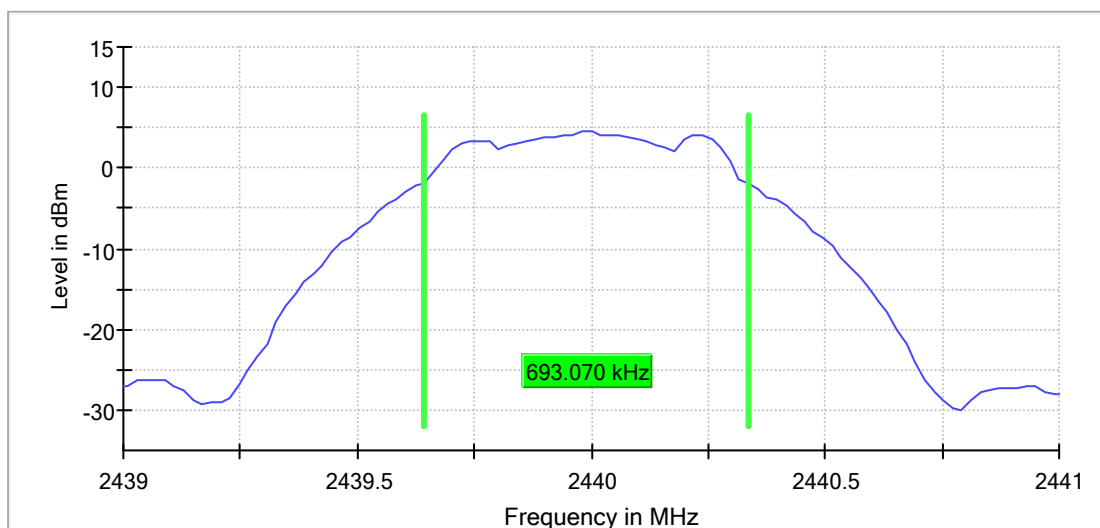


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.693070	0.500000	---	2439.643564	2440.336634

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	4.5	PASS

6 dB Bandwidth

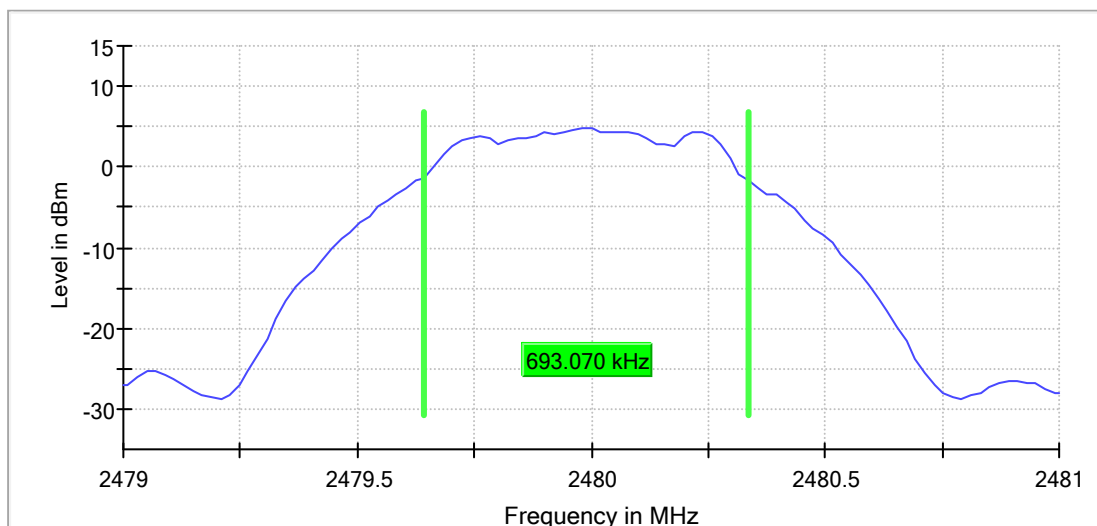


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.693070	0.500000	---	2479.643564	2480.336634

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	4.8	PASS

6 dB Bandwidth



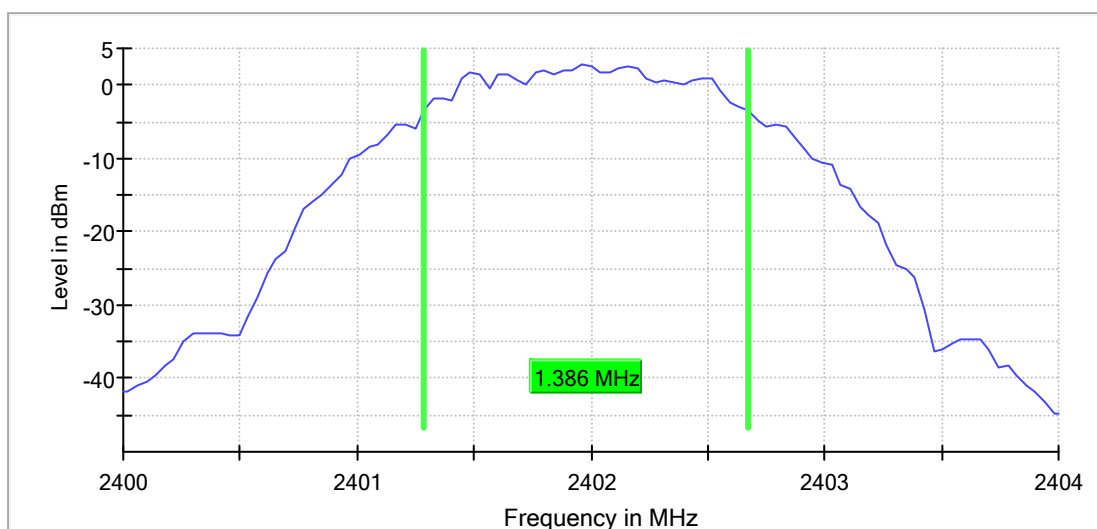
BLE_2M

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.386138	0.500000	---	2401.287129	2402.673267

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	2.8	PASS

6 dB Bandwidth

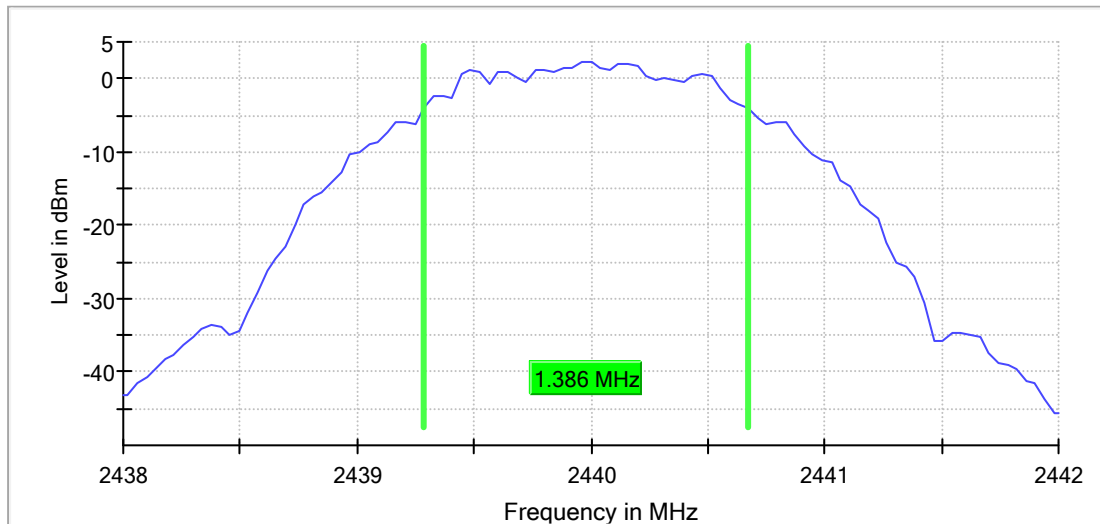


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.386138	0.500000	---	2439.287129	2440.673267

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	2.4	PASS

6 dB Bandwidth

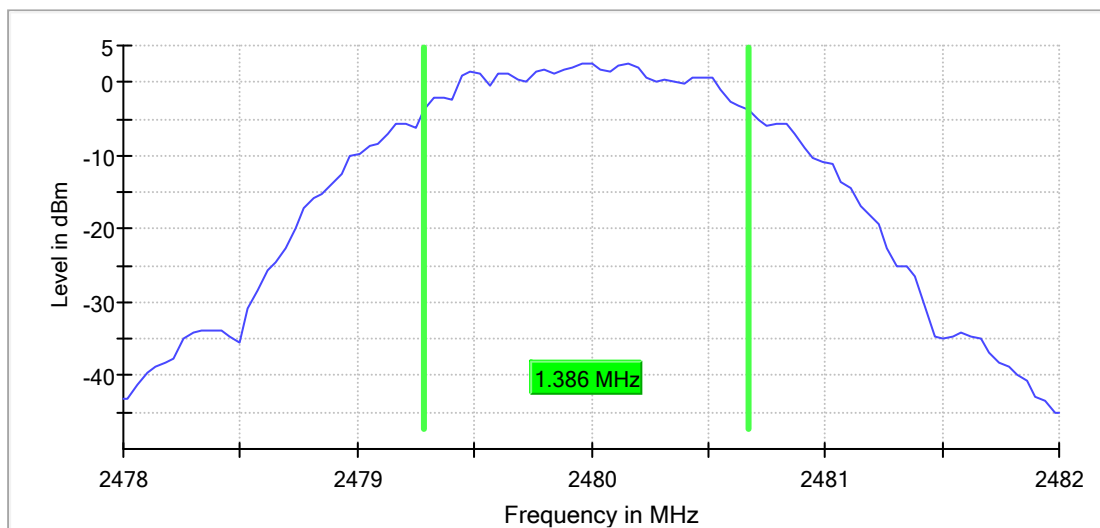


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.386138	0.500000	---	2479.287129	2480.673267

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	2.6	PASS

6 dB Bandwidth



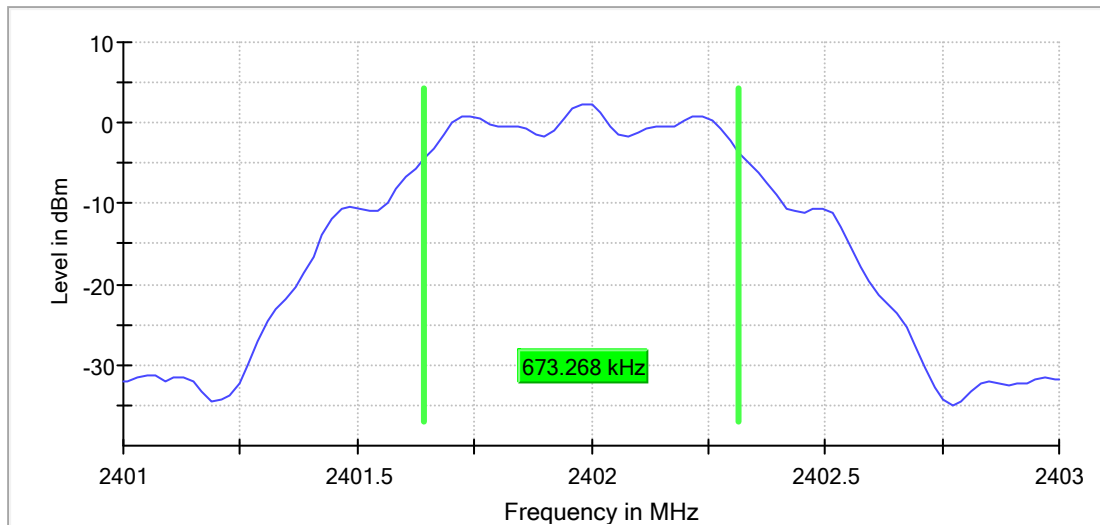
BLE_125K

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.673268	0.500000	---	2401.643564	2402.316832

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	2.4	PASS

6 dB Bandwidth

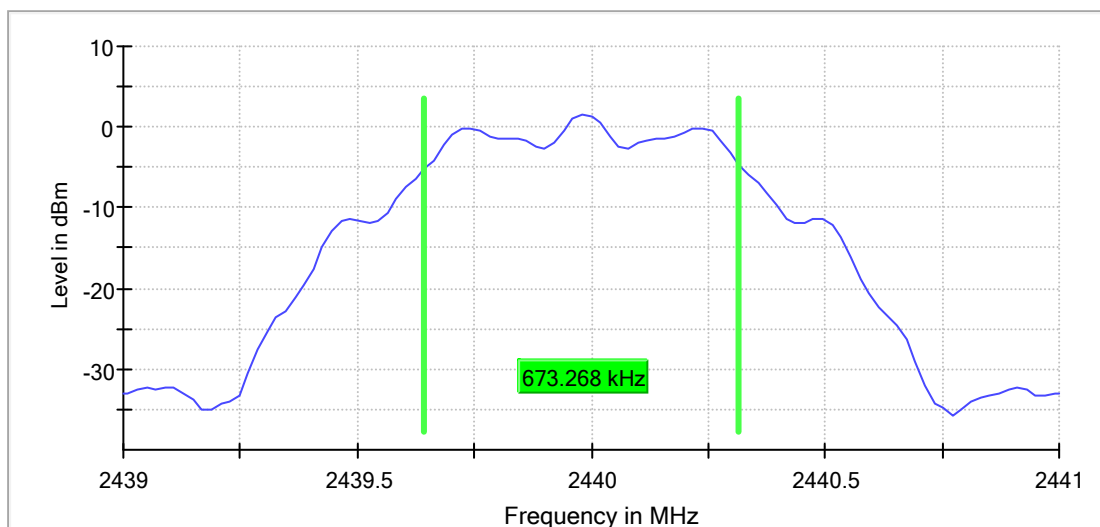


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.673268	0.500000	---	2439.643564	2440.316832

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	1.5	PASS

6 dB Bandwidth

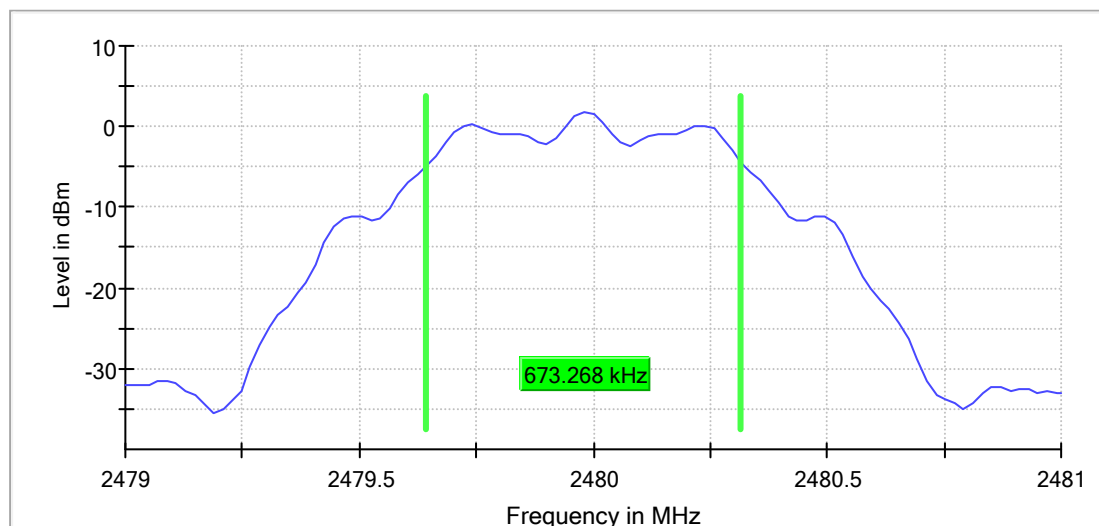


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.673268	0.500000	---	2479.643564	2480.316832

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	1.7	PASS

6 dB Bandwidth



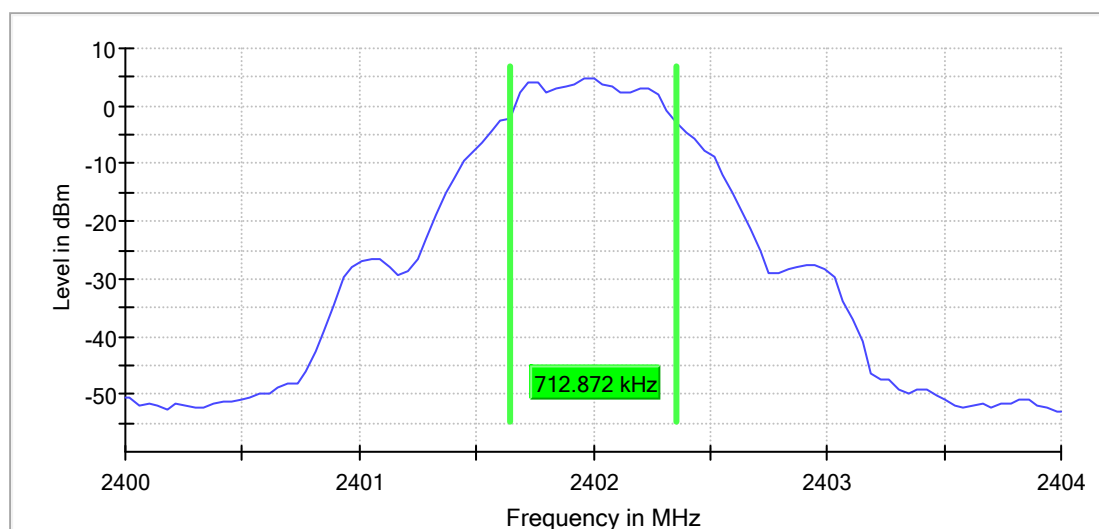
BLE_500K

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.712872	0.500000	---	2401.643564	2402.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	4.7	PASS

6 dB Bandwidth

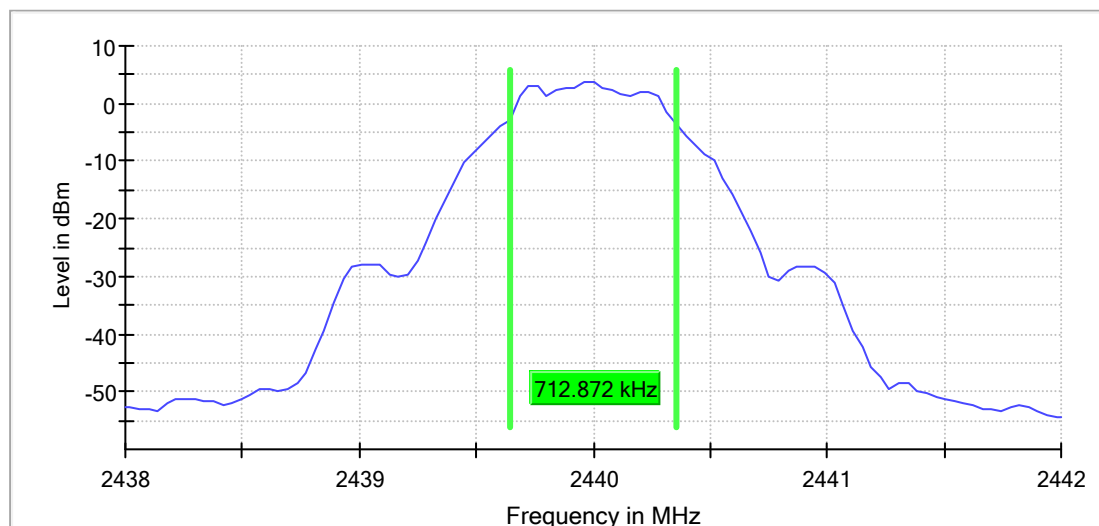


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.712872	0.500000	---	2439.643564	2440.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	3.8	PASS

6 dB Bandwidth

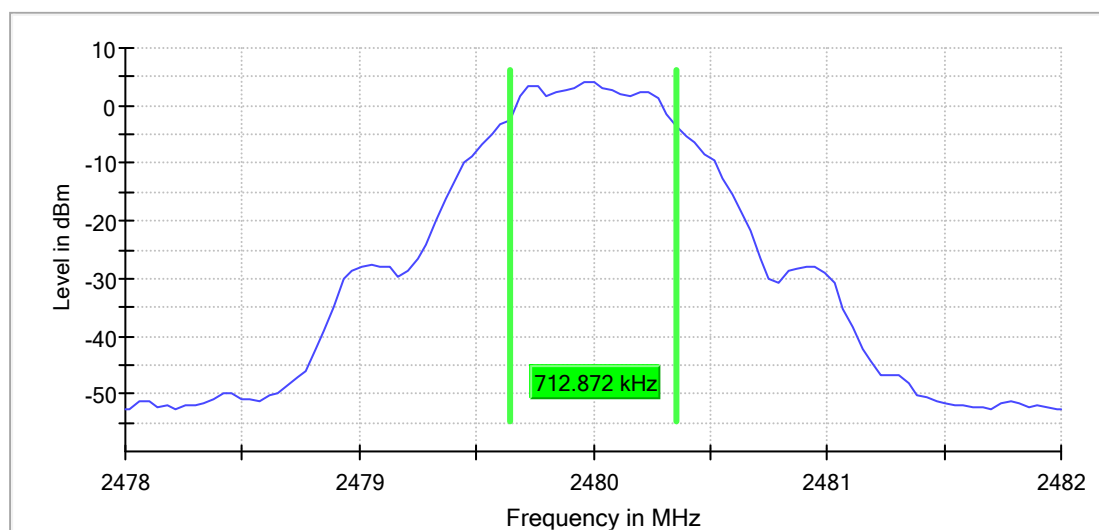


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.712872	0.500000	---	2479.643564	2480.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	4.1	PASS

6 dB Bandwidth



APPENDIX C.3: 99% BANDWIDTH

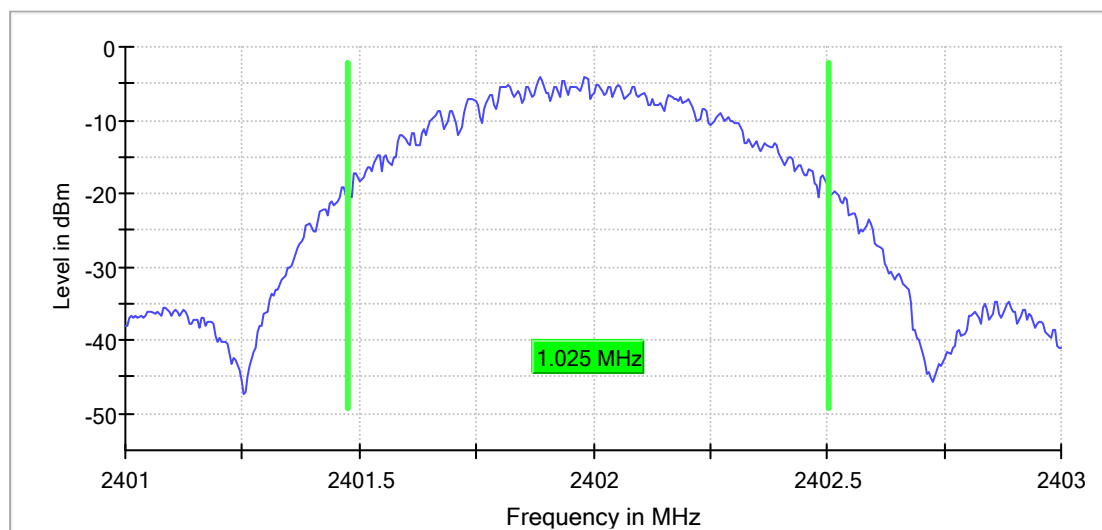
BLE_1M

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.025000	---	---	2401.477500	2402.502500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth

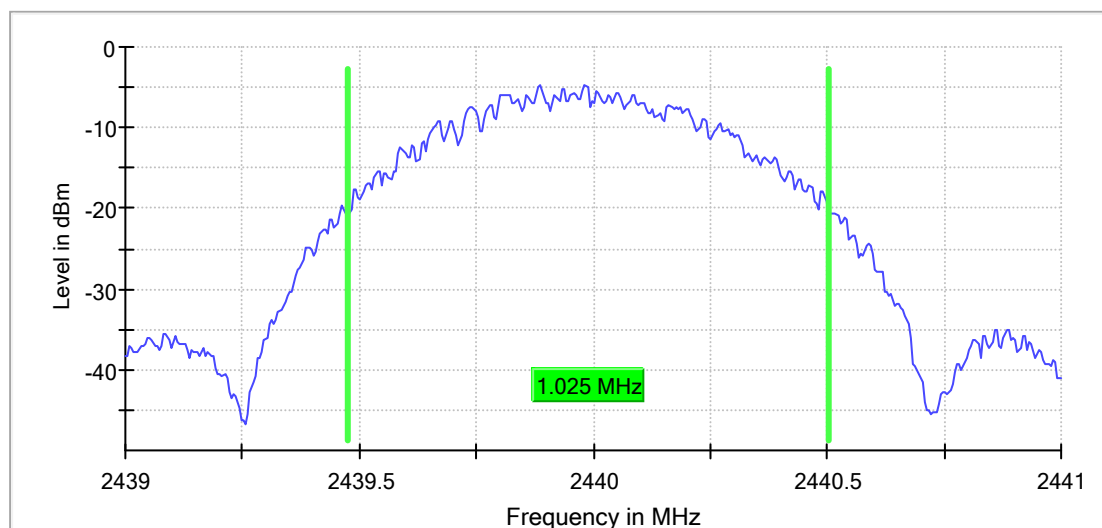


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.025000	---	---	2439.477500	2440.502500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth

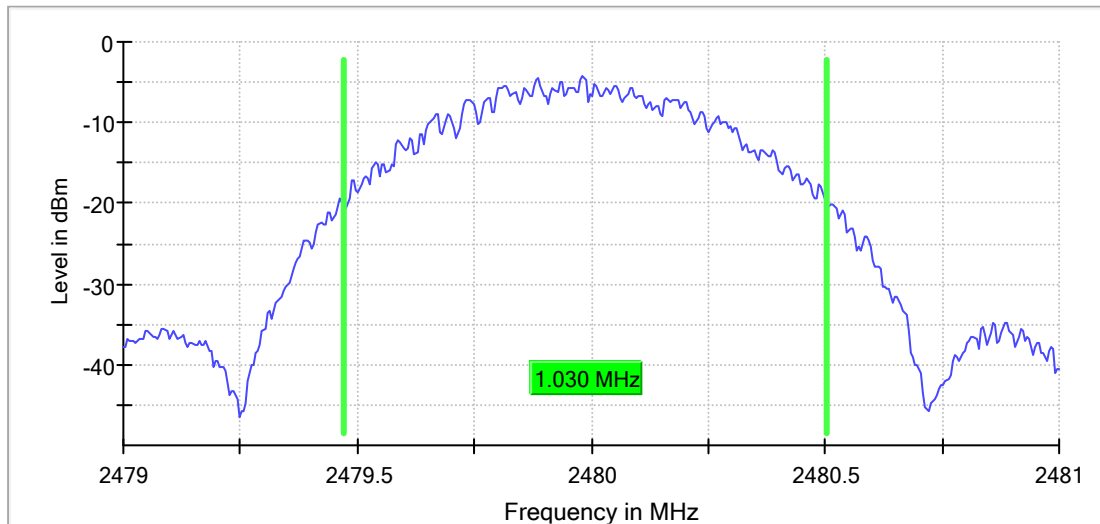


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.030000	---	---	2479.472500	2480.502500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



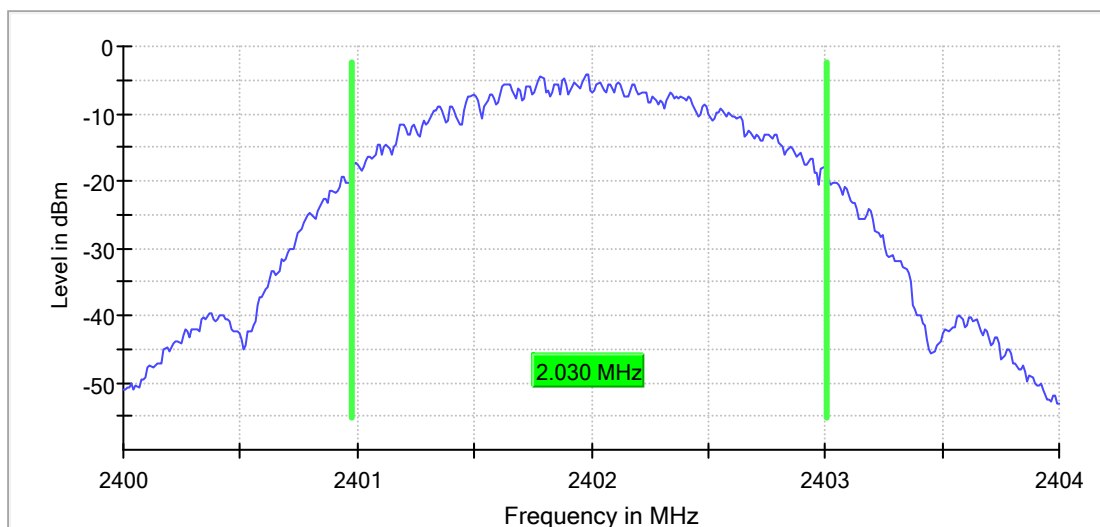
BLE_2M

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.030000	---	---	2400.975000	2403.005000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth

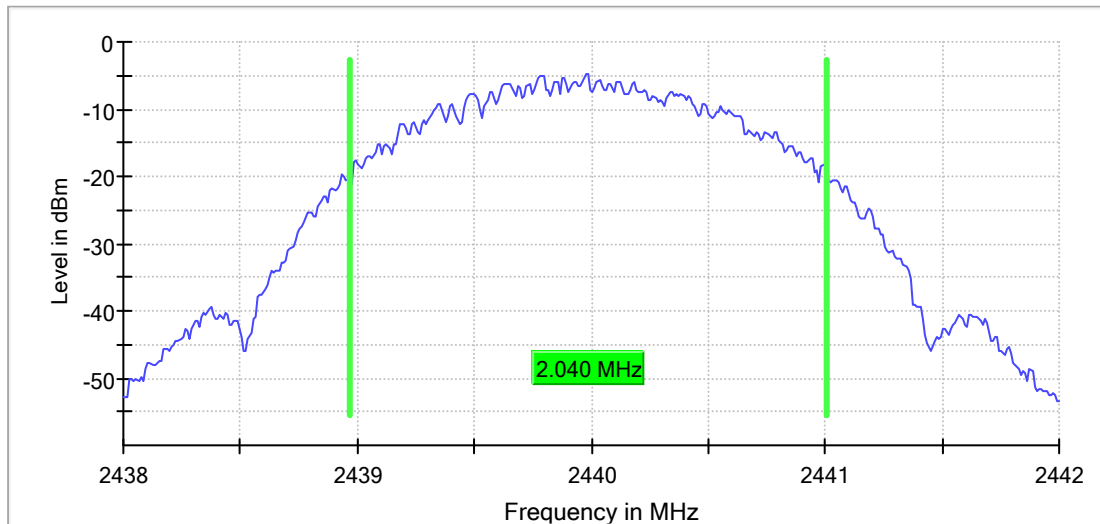


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.040000	---	---	2438.965000	2441.005000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth

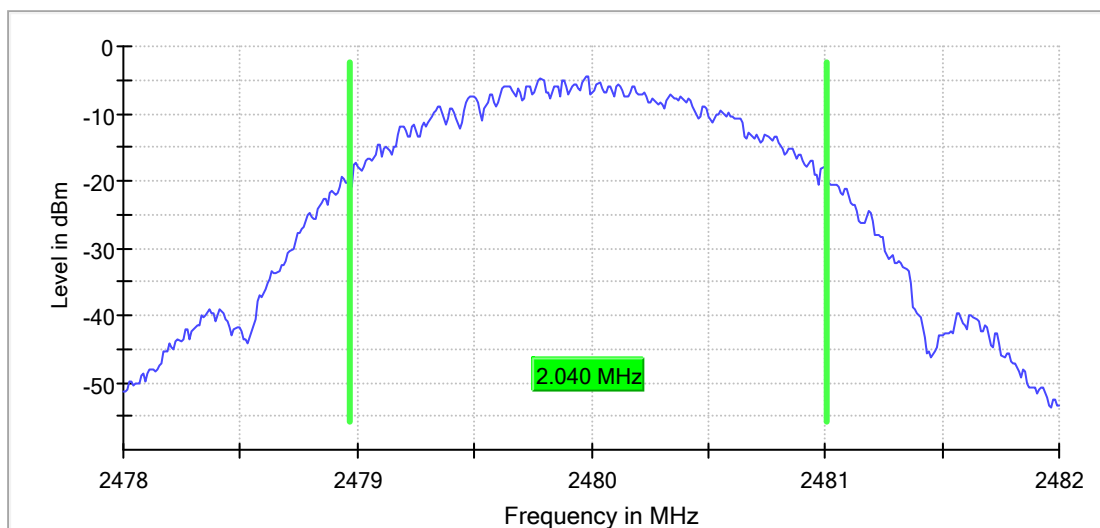


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.040000	---	---	2478.965000	2481.005000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



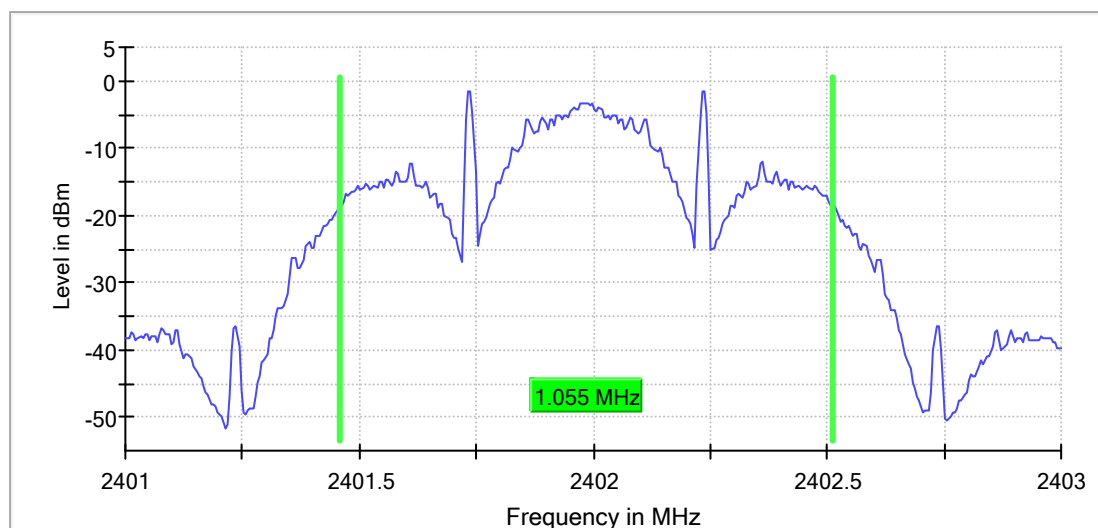
BLE_125K

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.055000	---	---	2401.457500	2402.512500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth

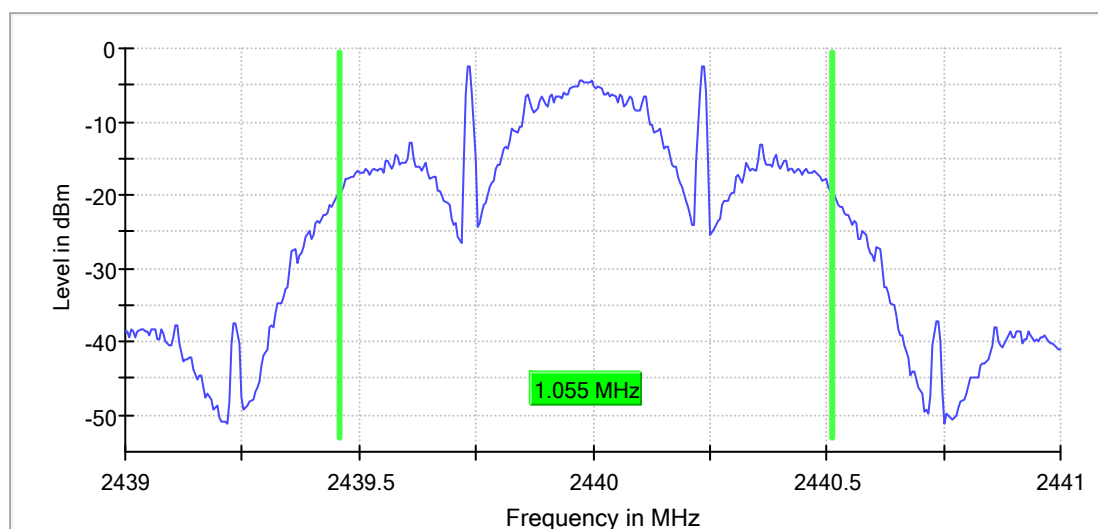


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.055000	---	---	2439.457500	2440.512500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth

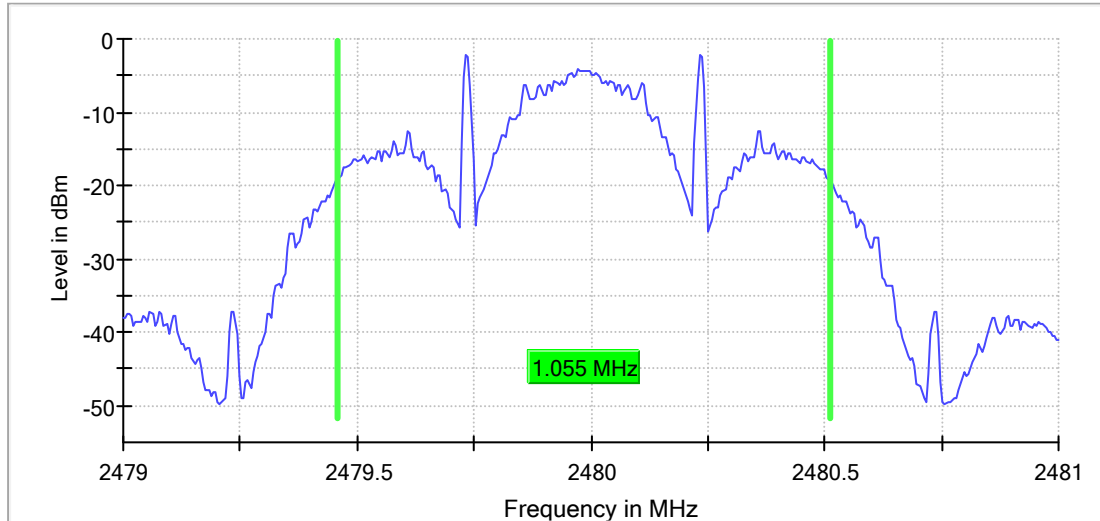


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.055000	---	---	2479.457500	2480.512500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



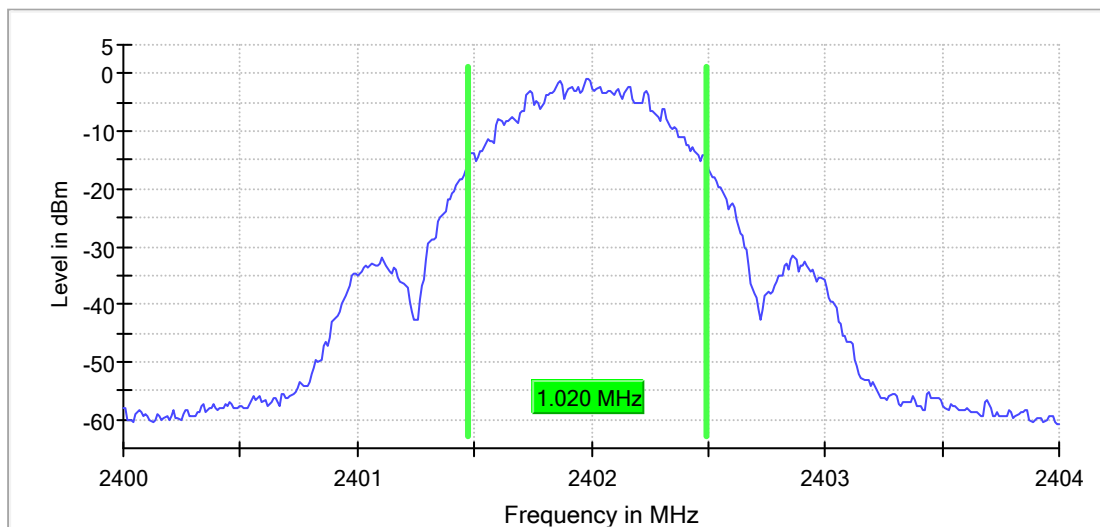
BLE_500K

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.020000	---	---	2401.475000	2402.495000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth

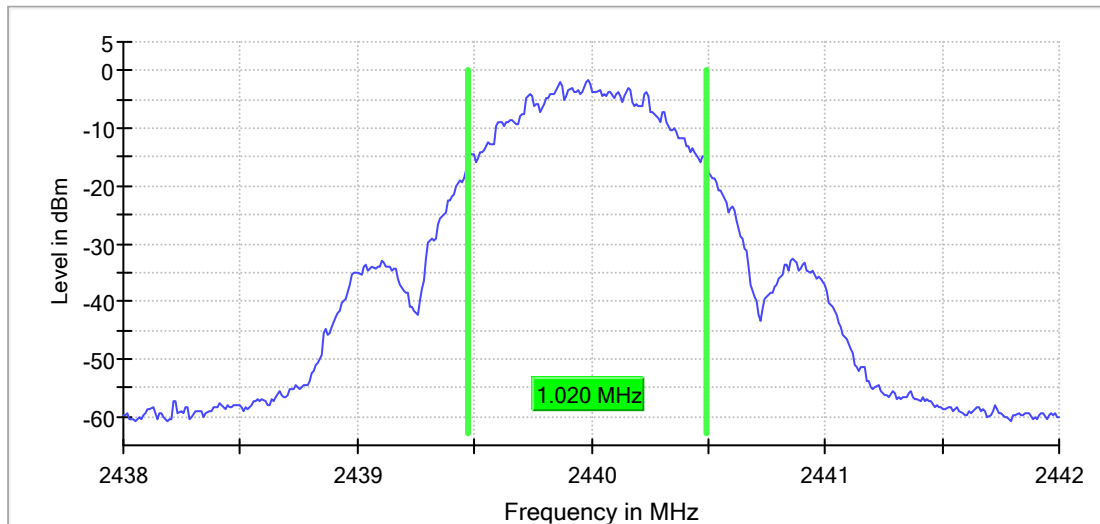


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.020000	---	---	2439.475000	2440.495000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth

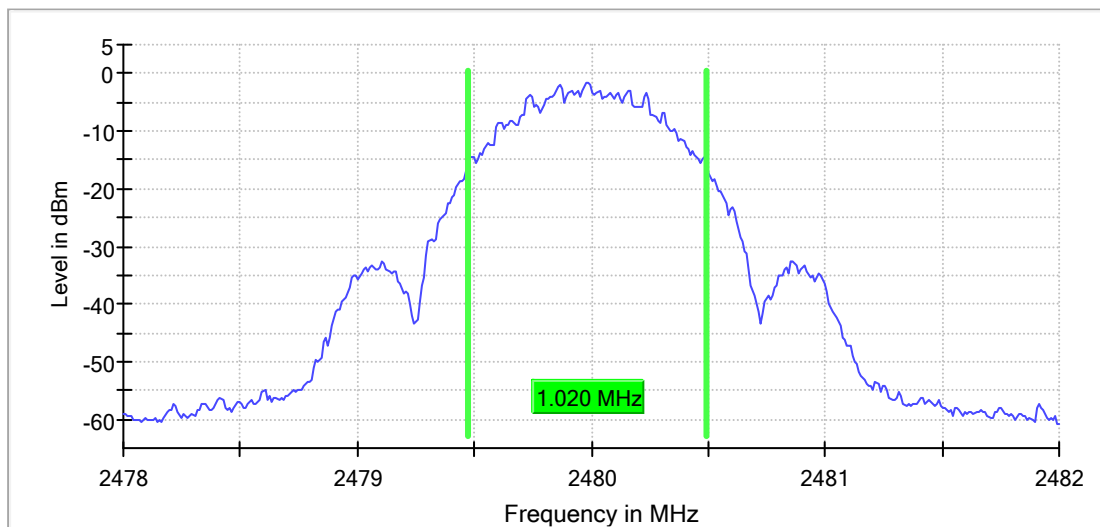


DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.020000	---	---	2479.475000	2480.495000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



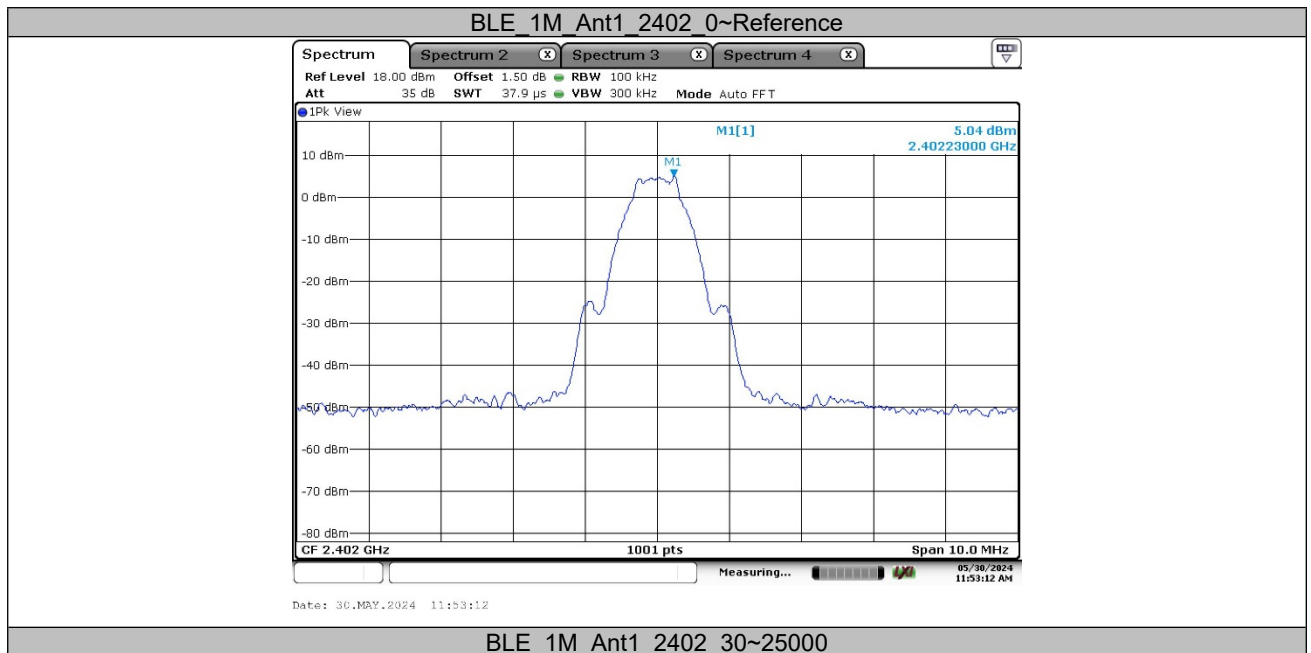
APPENDIX C.4: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

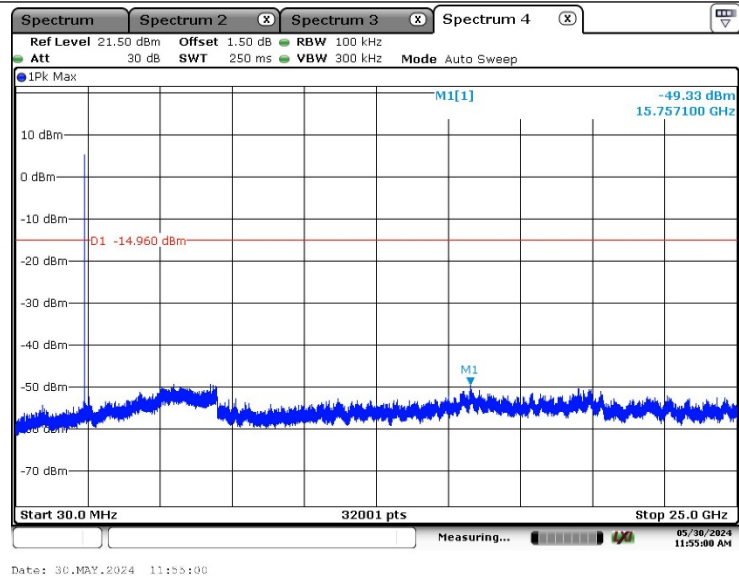
Conducted Spurious Emission

Test Result

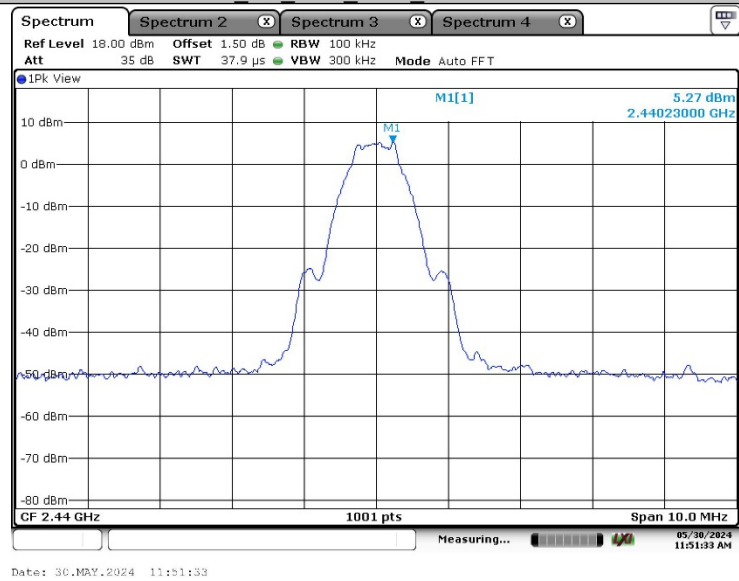
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.04	5.04	---	PASS
			30~25000	5.04	-49.33	≤-14.96	PASS
		2440	Reference	5.27	5.27	---	PASS
			30~25000	5.27	-49.31	≤-14.73	PASS
		2480	Reference	4.8	4.8	---	PASS
			30~25000	4.8	-49.5	≤-15.2	PASS
BLE_2M	Ant1	2402	Reference	3.19	3.19	---	PASS
			30~25000	3.19	-49.76	≤-16.81	PASS
		2440	Reference	3.51	3.51	---	PASS
			30~25000	3.51	-49.86	≤-16.49	PASS
		2480	Reference	2.79	2.79	---	PASS
			30~25000	2.79	-49.6	≤-17.21	PASS

Test Graphs

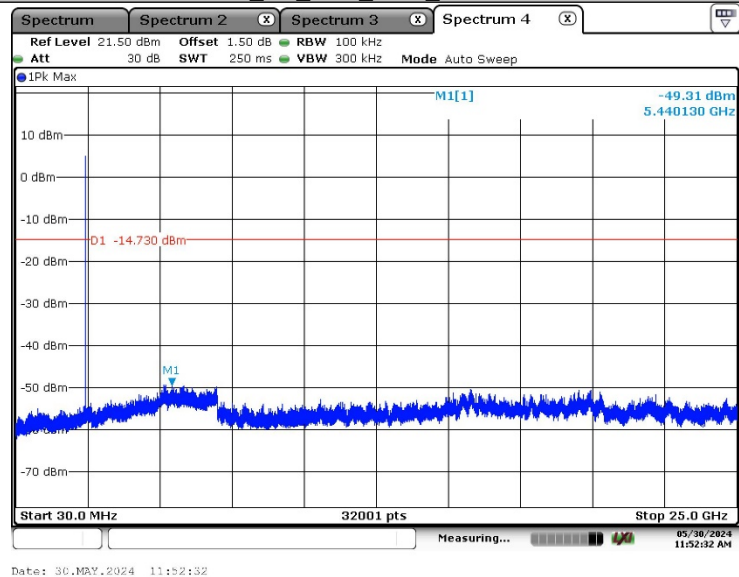


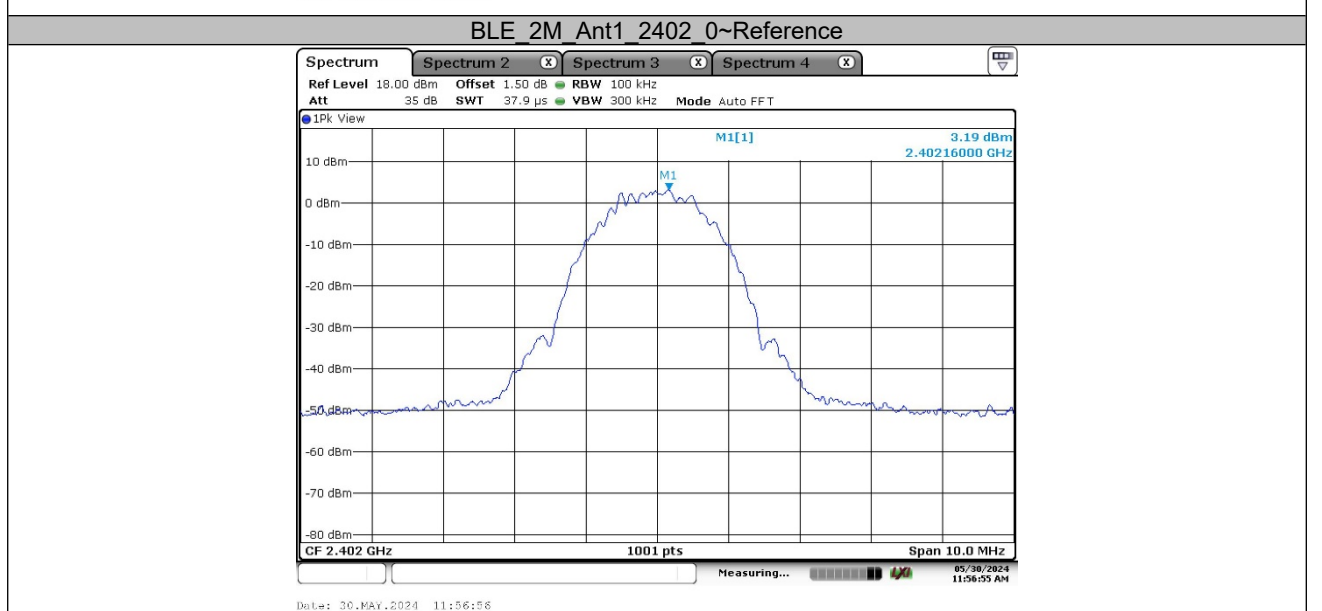
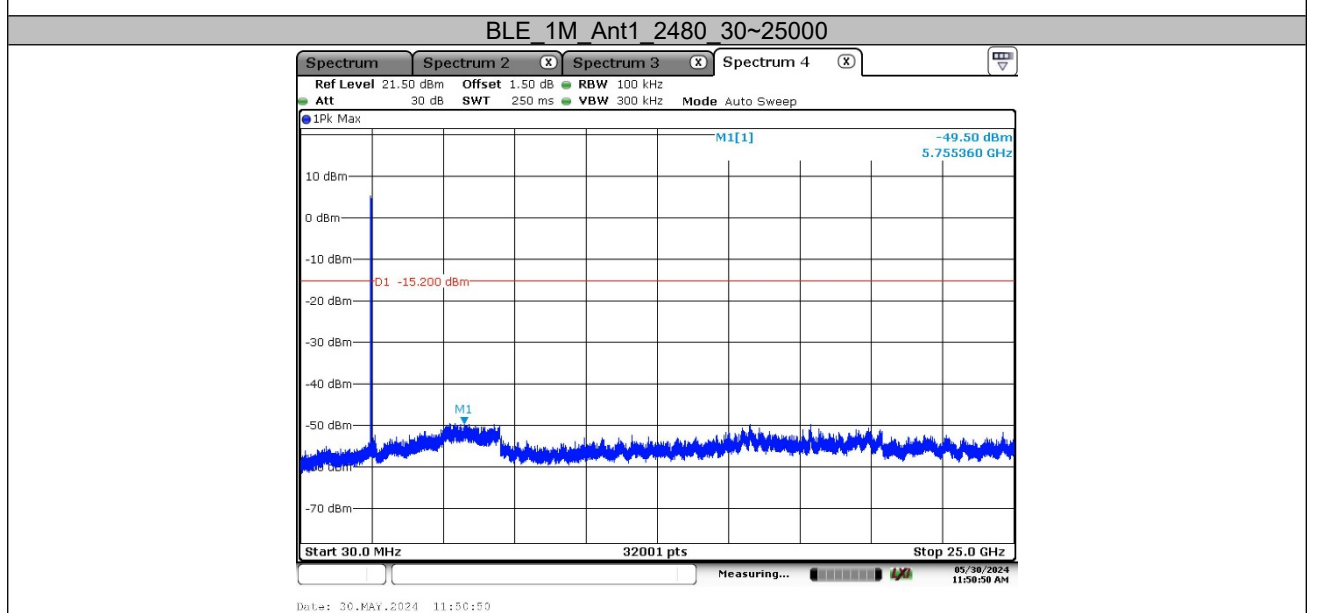
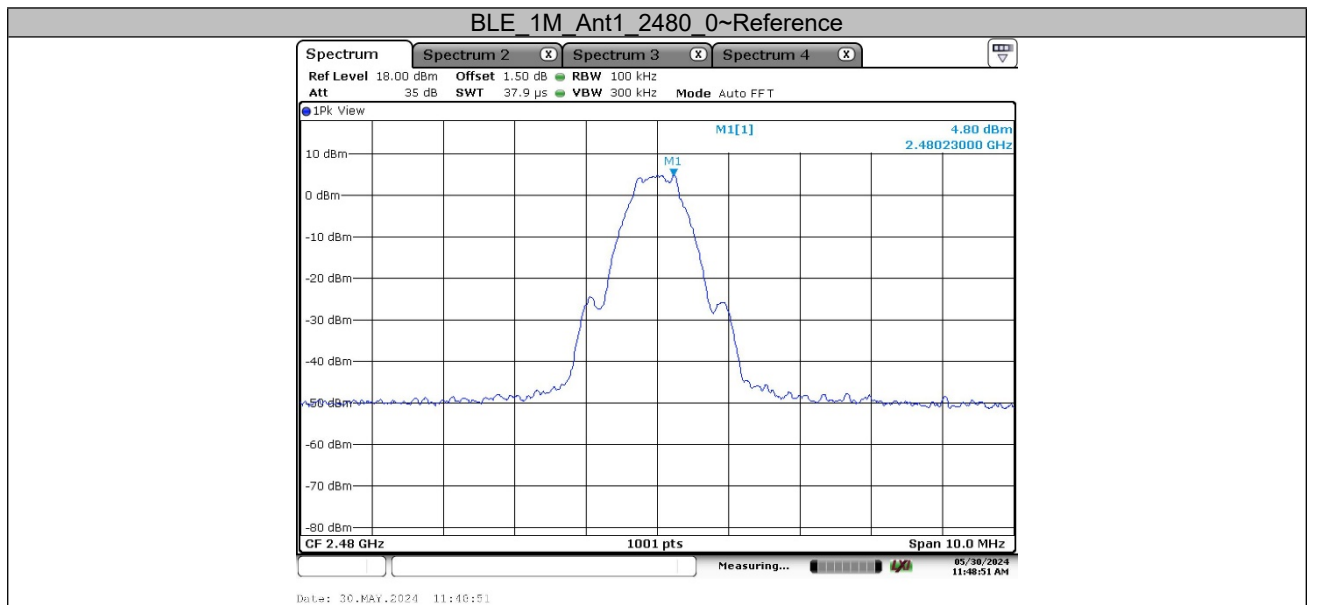


BLE 1M Ant1 2440 0~Reference

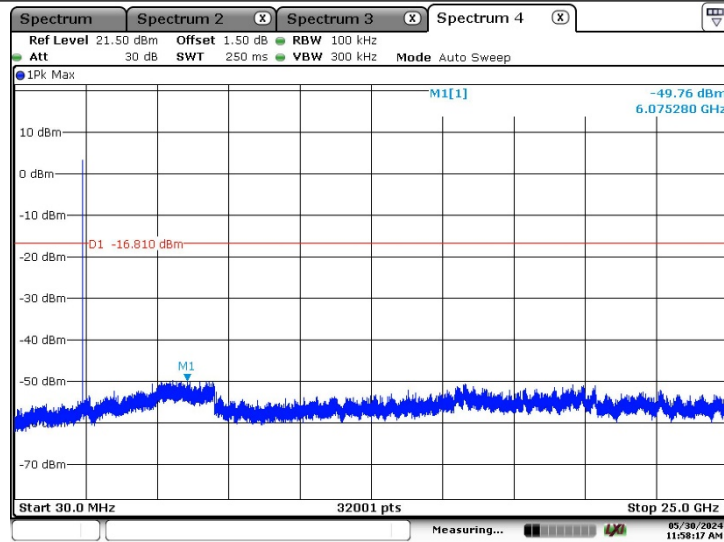


BLE 1M Ant1 2440 30~25000



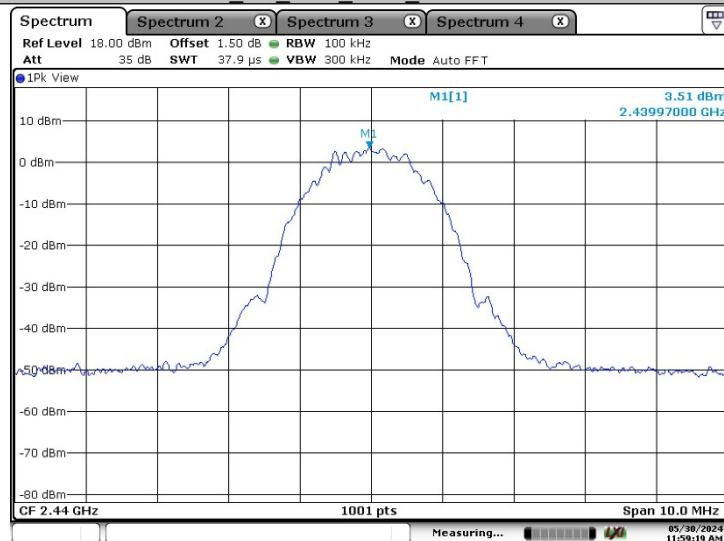


BLE 2M Ant1 2402 30~25000



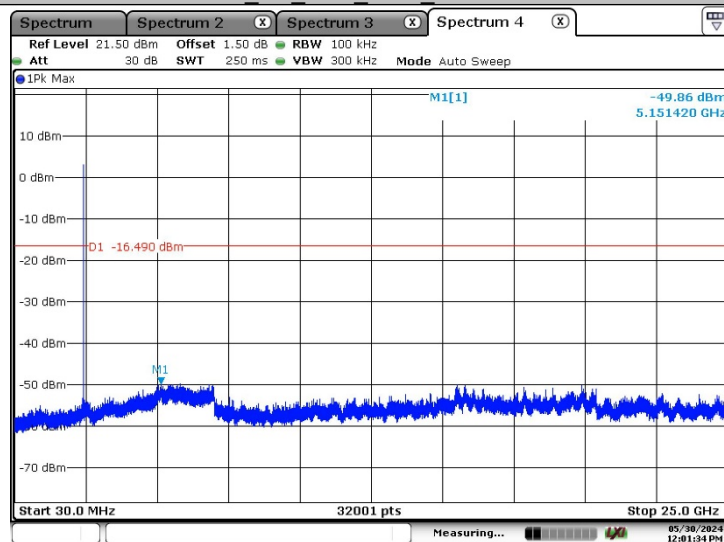
Date: 30.MAY.2024 11:58:17

BLE 2M Ant1 2440 0~Reference

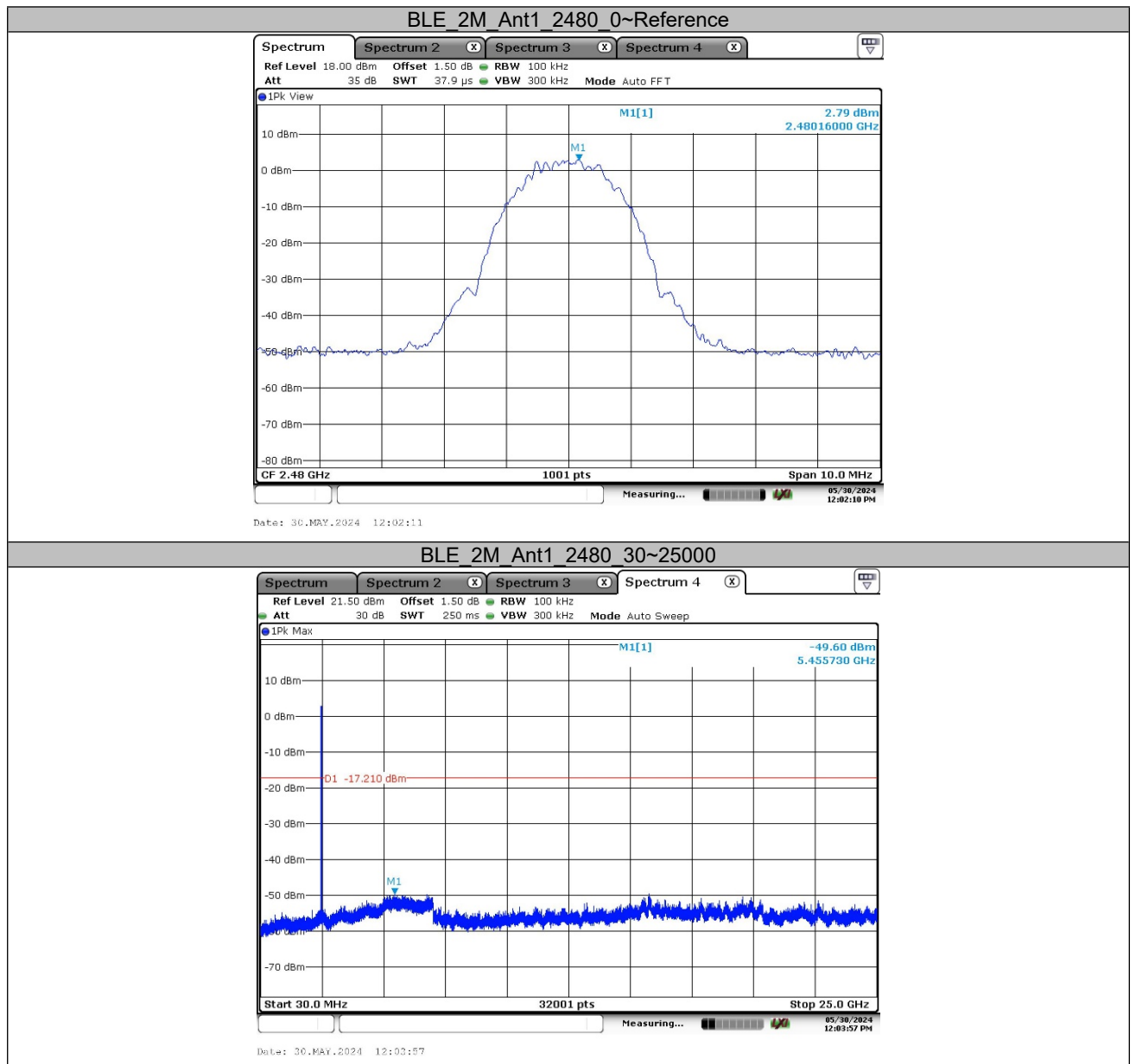


Date: 30.MAY.2024 11:59:20

BLE 2M Ant1 2440 30~25000



Date: 30.MAY.2024 12:01:34

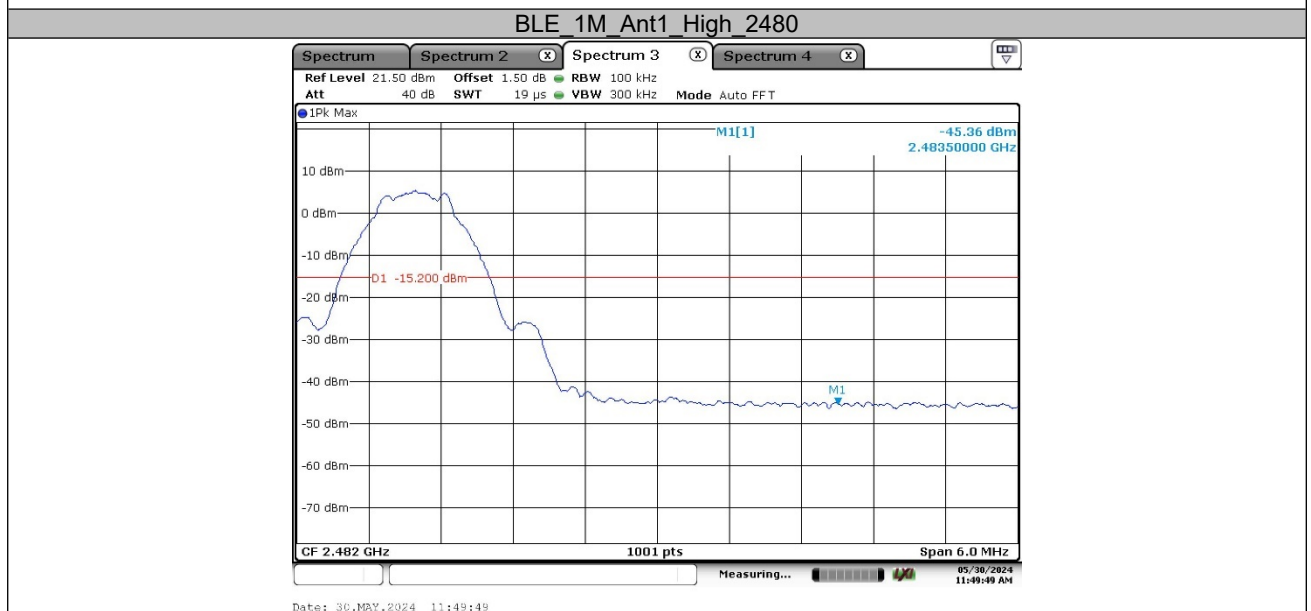
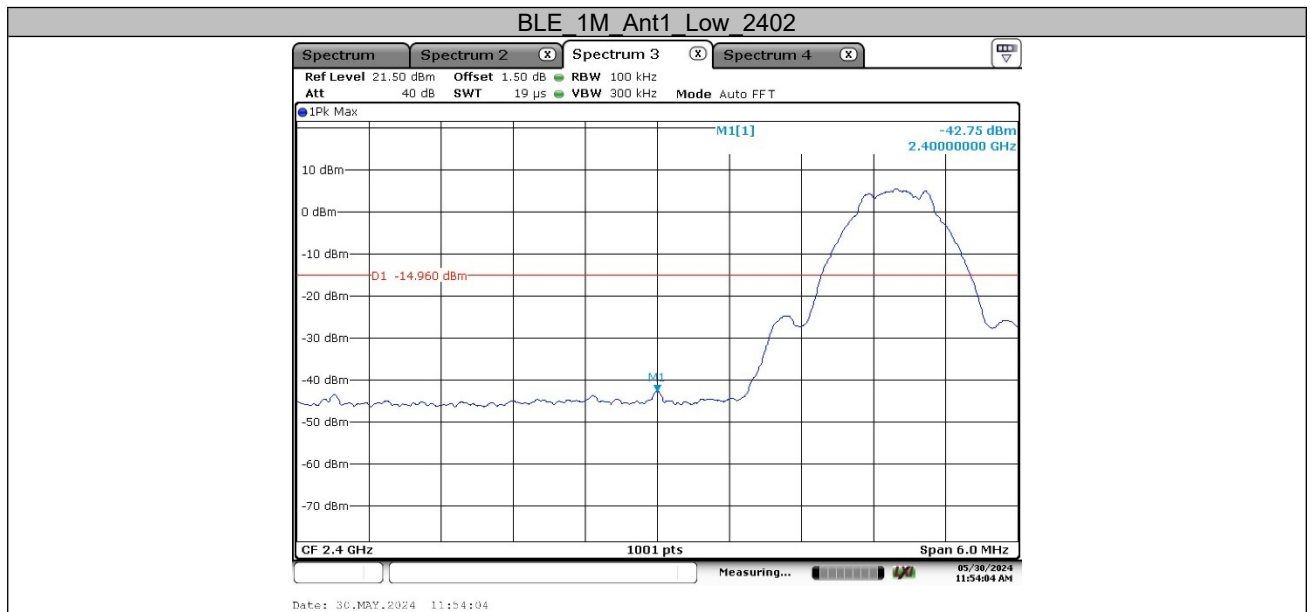


Band Edge

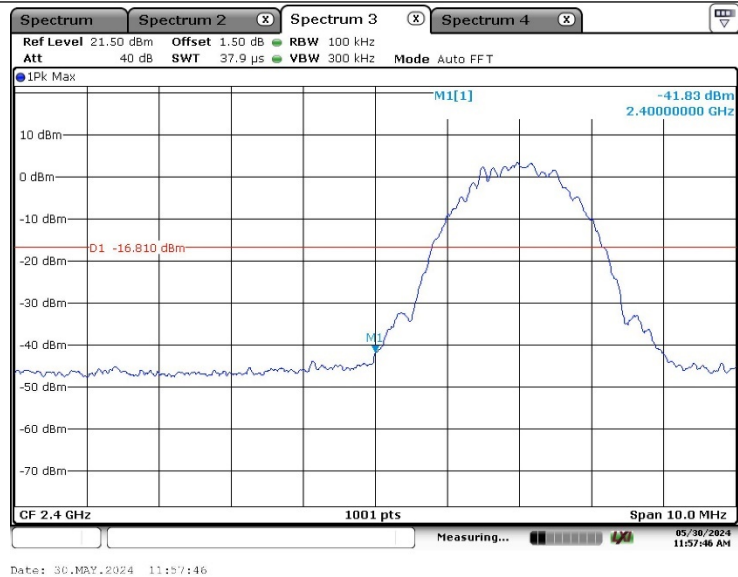
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.04	-42.75	≤-14.96	PASS
		High	2480	4.8	-45.36	≤-15.2	PASS
BLE_2M	Ant1	Low	2402	3.19	-41.83	≤-16.81	PASS
		High	2480	2.79	-44.06	≤-17.21	PASS

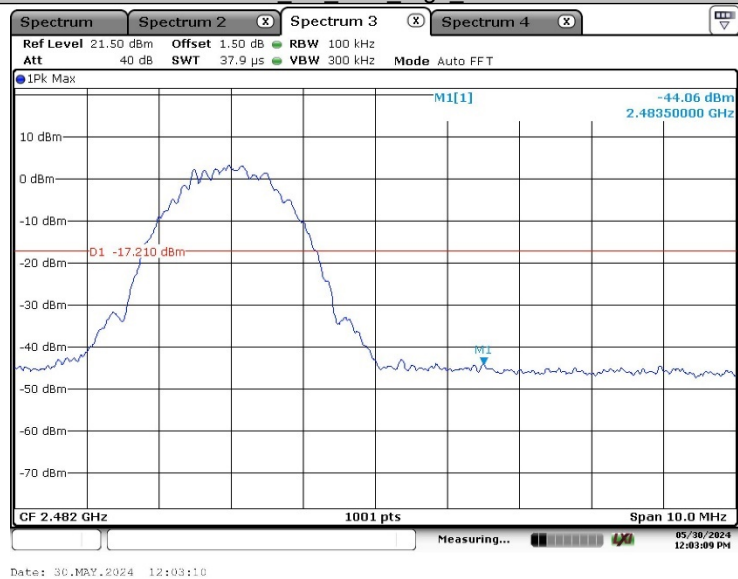
Test Graphs



BLE 2M Ant1 Low 2402



BLE 2M Ant1_High 2480



APPENDIX C.5: RADIATED SPURIOUS EMISSIONS

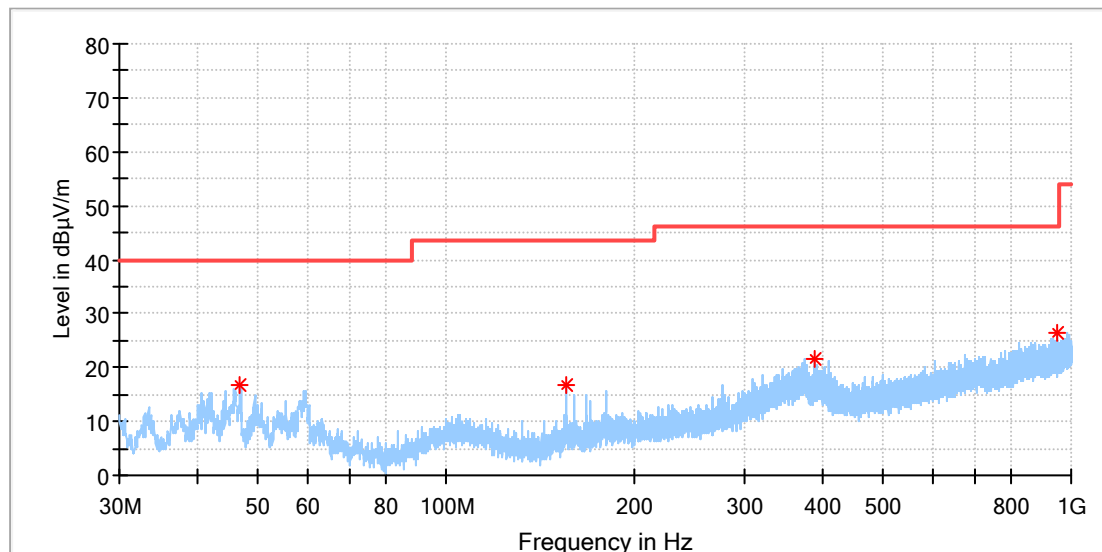
Note:

- 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.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

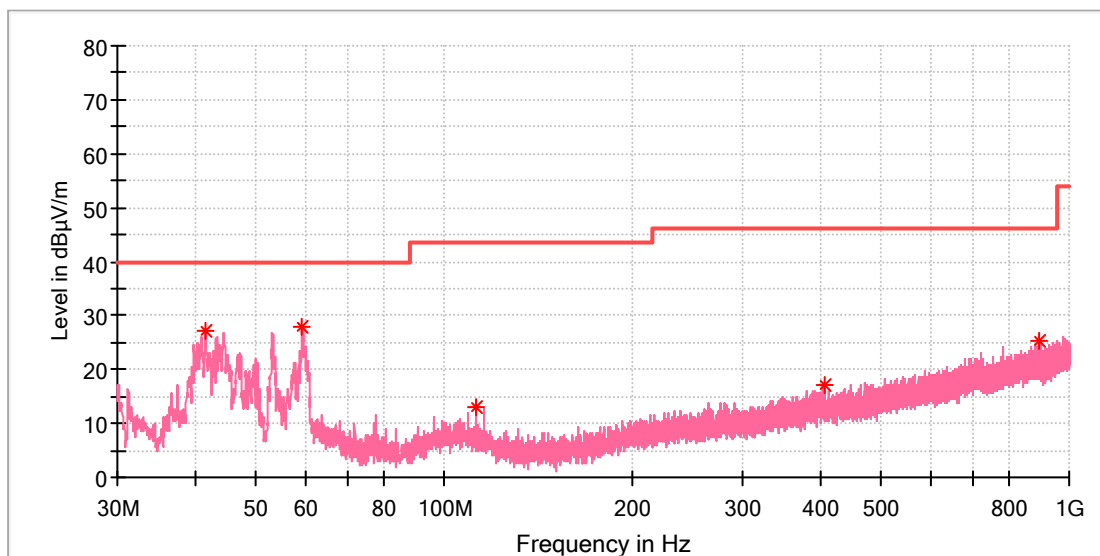


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.863077	16.87	40.00	23.13	100.0	H	290.0	-18.9
155.838846	16.85	43.50	26.65	100.0	H	46.0	-22.2
389.310385	21.71	46.00	24.29	100.0	H	168.0	-14.4
946.538077	26.32	46.00	19.68	100.0	H	265.0	-4.9

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



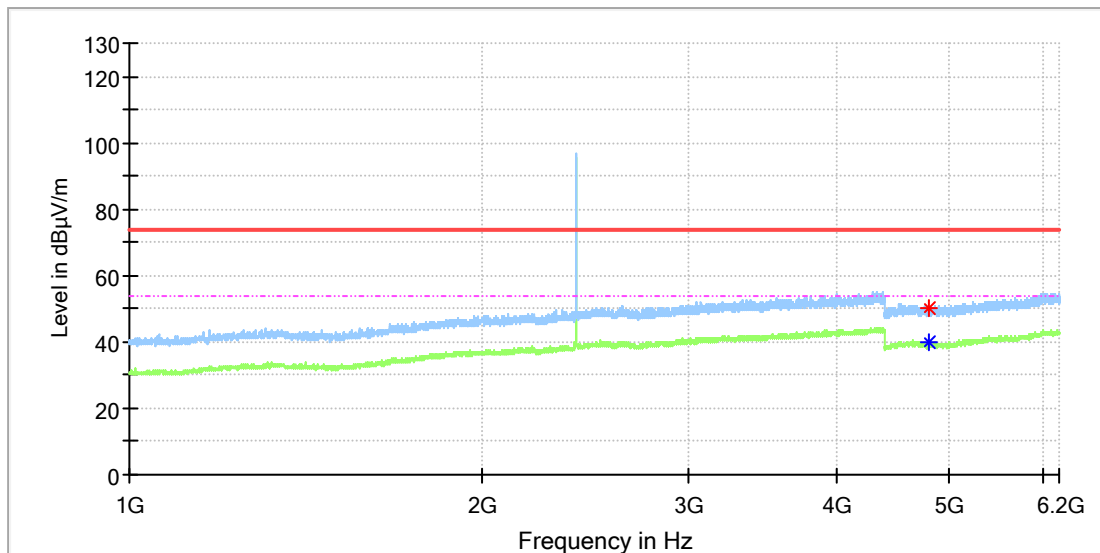
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.453462	27.32	40.00	12.68	100.0	V	189.0	-20.0
59.361154	27.94	40.00	12.06	100.0	V	139.0	-19.2
112.487308	12.86	43.50	30.64	100.0	V	115.0	-19.7
406.583846	17.07	46.00	28.93	100.0	V	189.0	-14.0
895.986154	25.20	46.00	20.80	100.0	V	148.0	-5.4

1GHz-18GHz

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

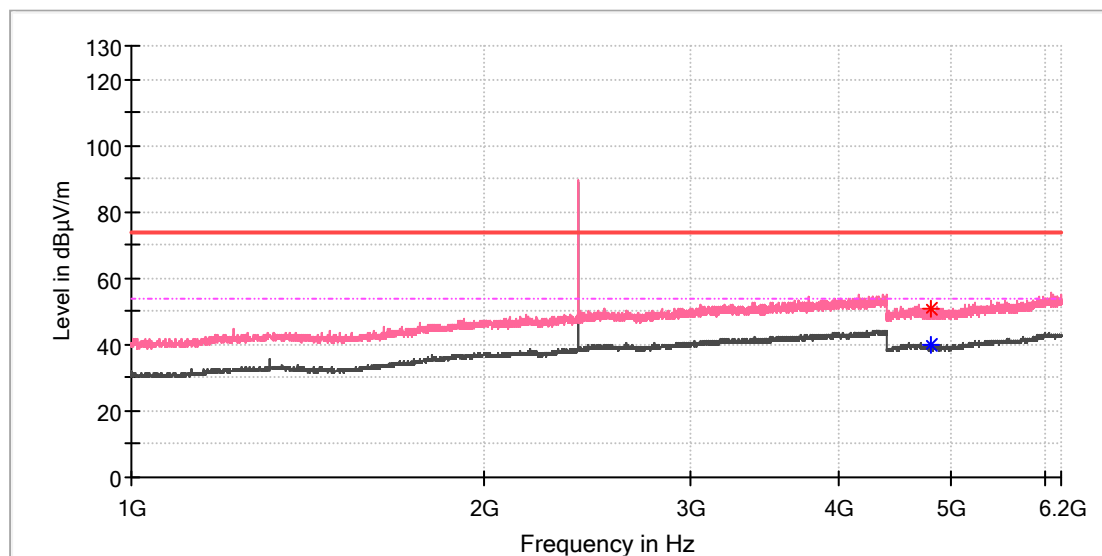


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	39.95	54.00	14.05	150.0	H	152.0	11.8
4806.500000	50.32	---	74.00	23.68	150.0	H	204.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

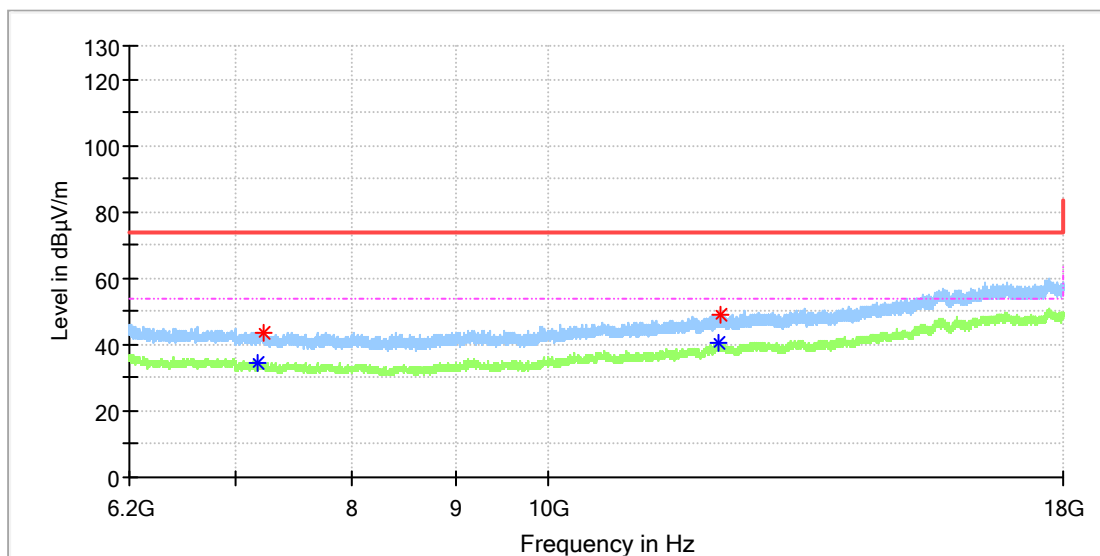


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.500000	50.85	---	74.00	23.15	150.0	V	64.0	11.8
4804.000000	---	39.83	54.00	14.17	150.0	V	99.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

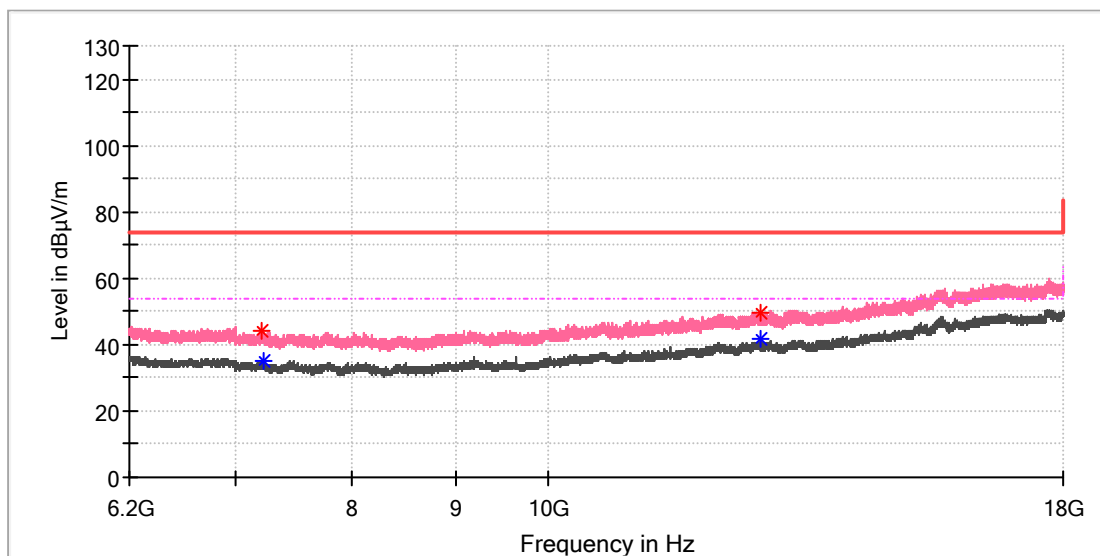


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7172.516667	---	34.75	54.00	19.25	150.0	H	346.0	8.7
7232.991667	43.31	---	74.00	30.69	150.0	H	277.0	8.6
12134.908333	---	40.57	54.00	13.43	150.0	H	229.0	14.3
12180.141667	48.92	---	74.00	25.08	150.0	H	252.0	14.6

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

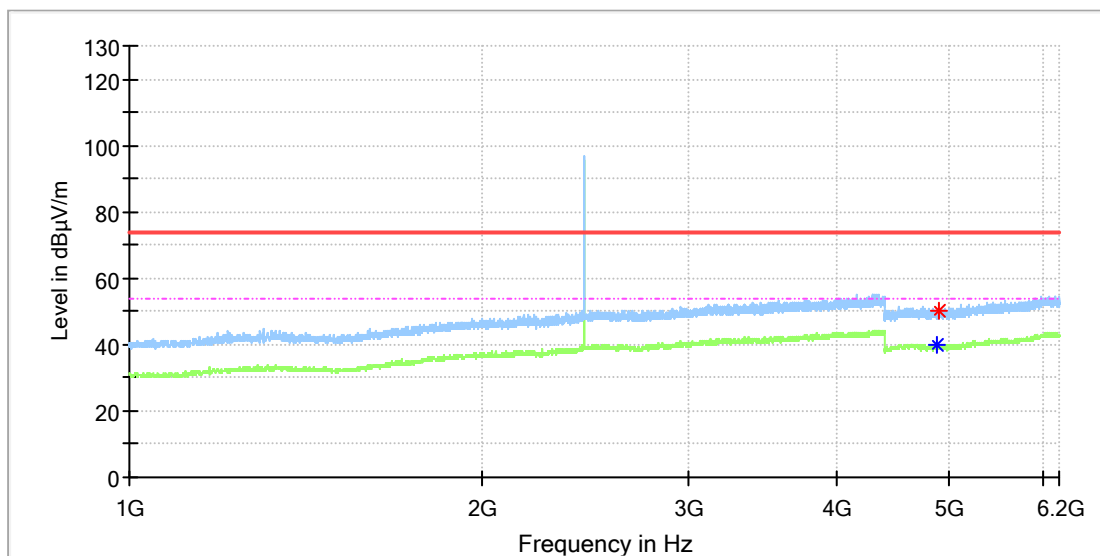


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7202.016667	44.29	---	74.00	29.71	150.0	V	35.0	8.8
7221.683333	---	34.95	54.00	19.05	150.0	V	35.0	8.7
12744.575000	49.68	---	74.00	24.32	150.0	V	195.0	15.2
12757.358333	---	41.45	54.00	12.55	150.0	V	208.0	15.2

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

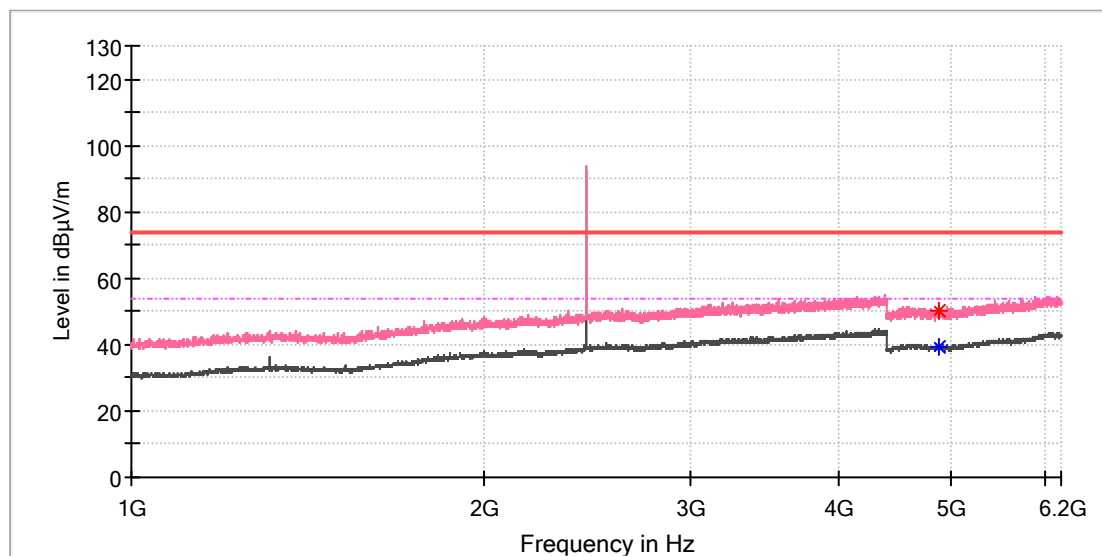


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	---	39.72	54.00	14.28	150.0	H	34.0	11.8
4889.500000	50.47	---	74.00	23.53	150.0	H	204.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

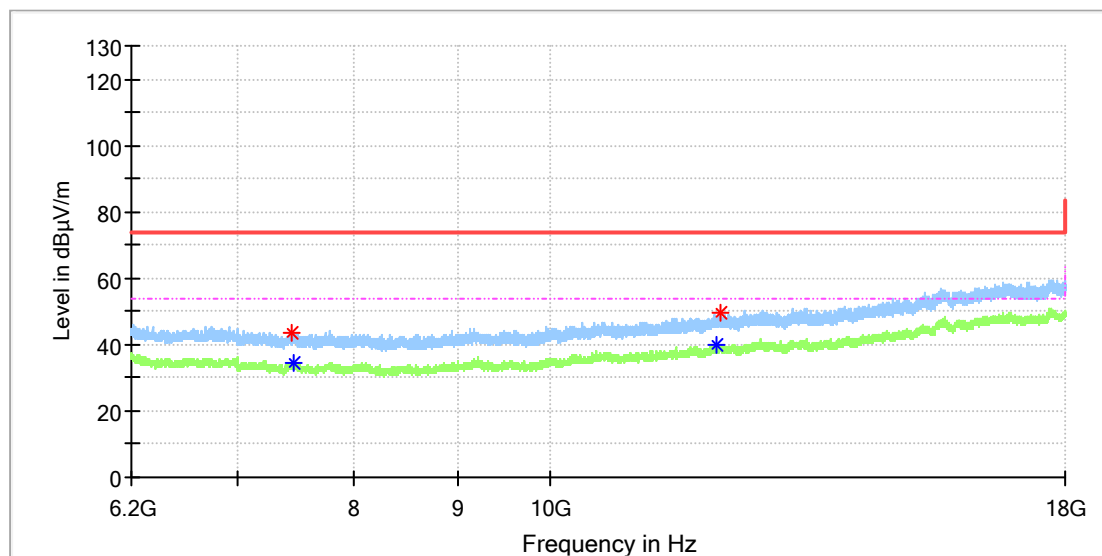


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	50.09	---	74.00	23.91	150.0	V	57.0	11.8
4879.500000	---	39.37	54.00	14.63	150.0	V	114.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

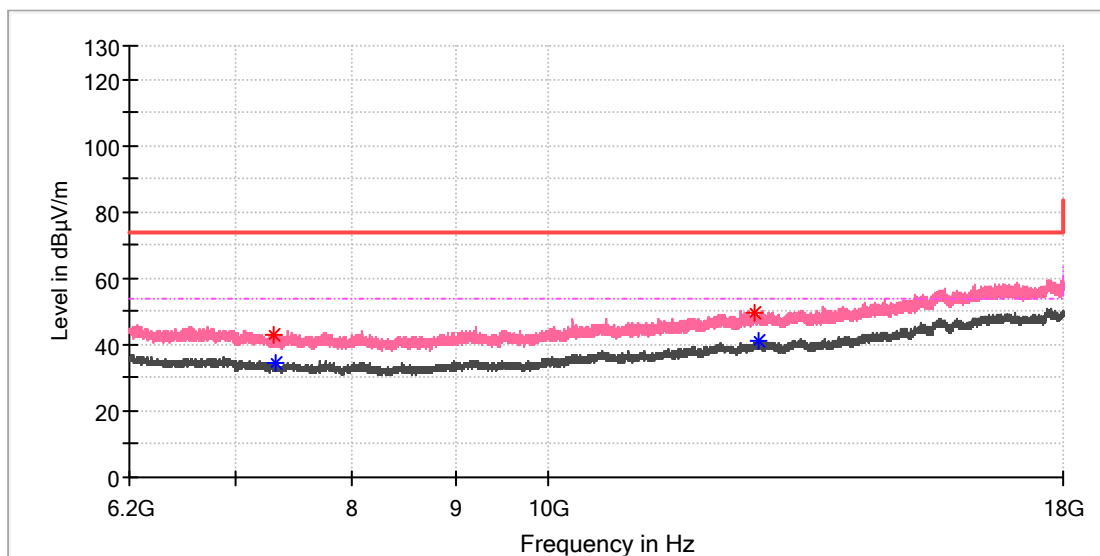


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7444.408333	43.39	---	74.00	30.61	150.0	H	286.0	8.5
7467.516667	---	34.73	54.00	19.28	150.0	H	286.0	8.6
12102.950000	---	40.03	54.00	13.97	150.0	H	72.0	14.2
12132.450000	49.52	---	74.00	24.48	150.0	H	48.0	14.3

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

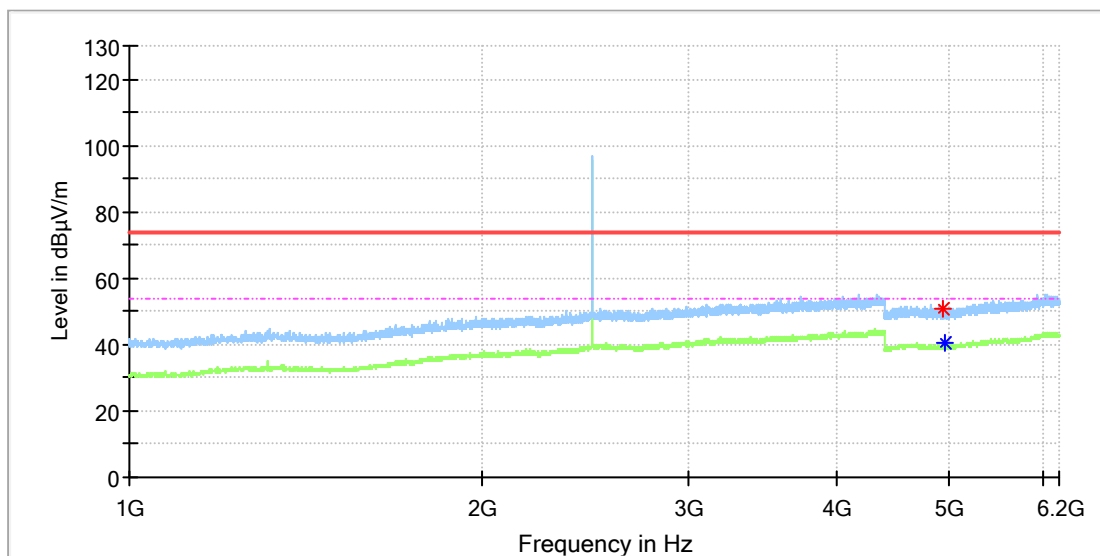


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.316667	43.18	---	74.00	30.82	150.0	V	216.0	8.3
7331.816667	---	34.22	54.00	19.78	150.0	V	216.0	8.1
12660.991667	49.82	---	74.00	24.18	150.0	V	0.0	15.0
12700.325000	---	41.03	54.00	12.97	150.0	V	309.0	15.1

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

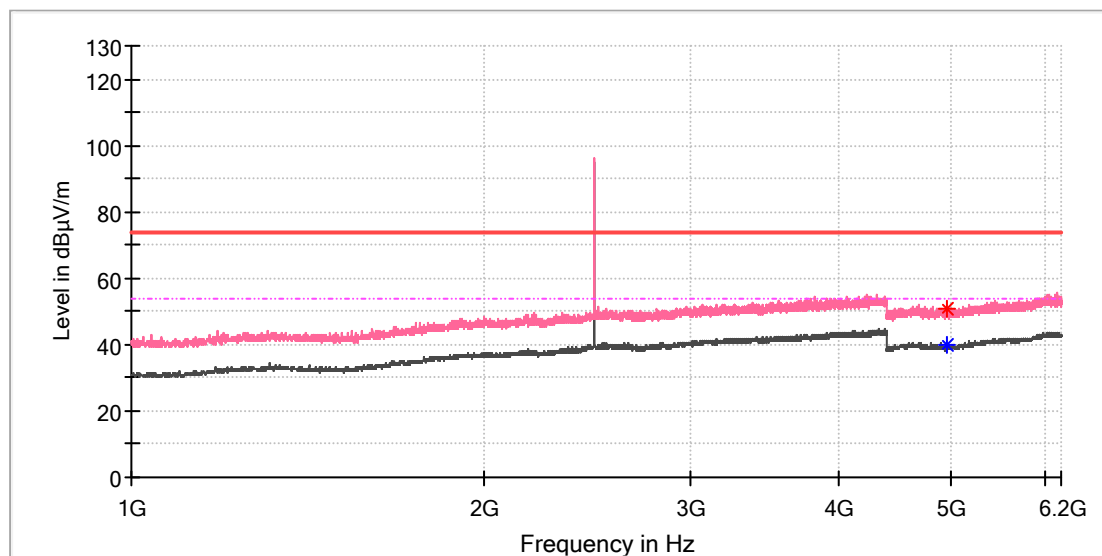


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4939.500000	50.87	---	74.00	23.13	150.0	H	19.0	11.8
4952.500000	---	40.26	54.00	13.74	150.0	H	95.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

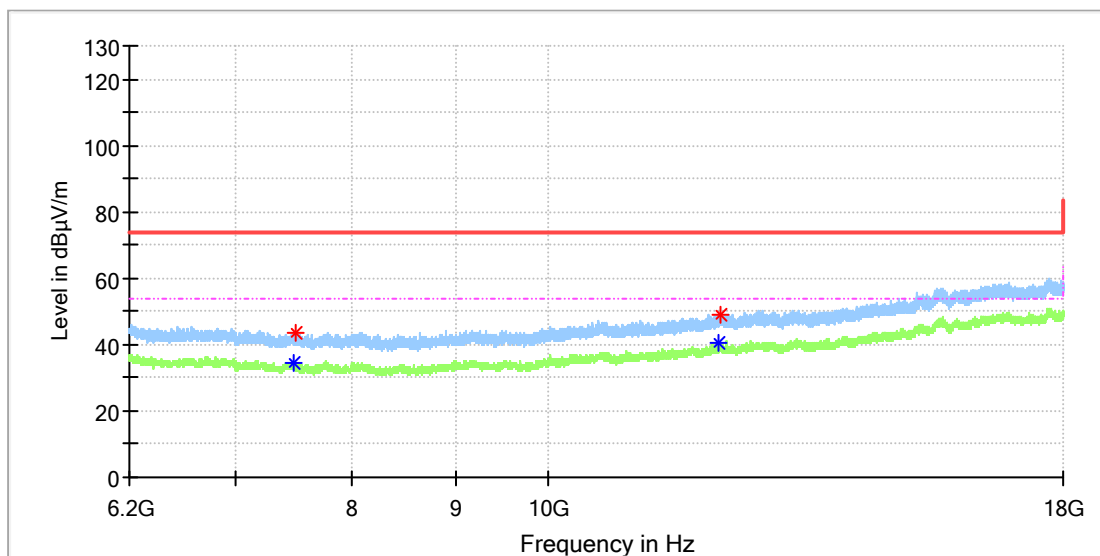


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4955.500000	50.68	---	74.00	23.32	150.0	V	128.0	11.8
4960.000000	---	39.93	54.00	14.07	150.0	V	12.0	11.8

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

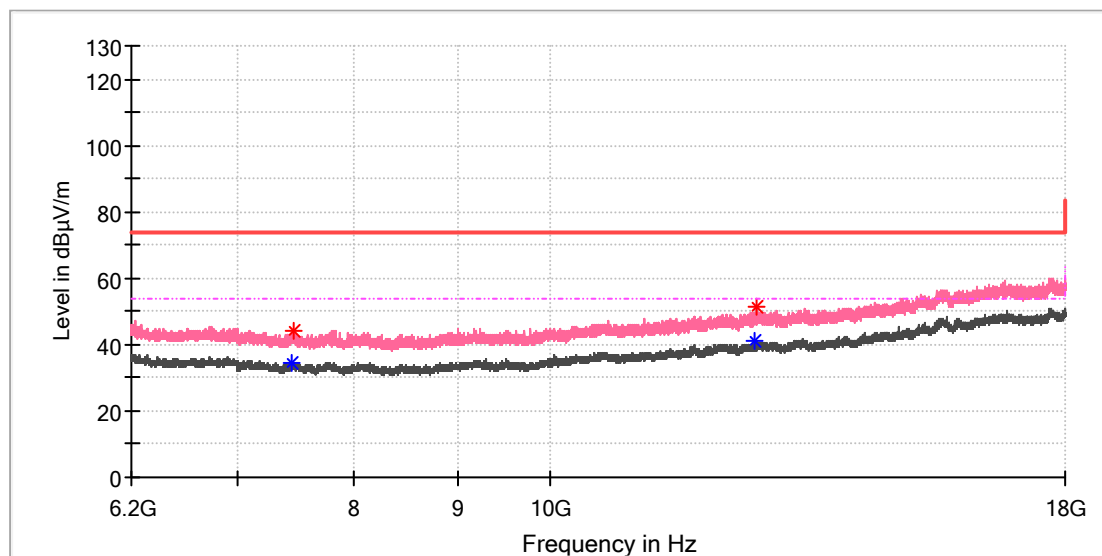


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7473.908333	---	34.33	54.00	19.67	150.0	H	0.0	8.6
7489.641667	43.32	---	74.00	30.68	150.0	H	131.0	8.7
12148.675000	---	40.48	54.00	13.52	150.0	H	227.0	14.4
12166.375000	48.92	---	74.00	25.08	150.0	H	325.0	14.5

EUT Information

EUT Name:	Thermostat
Model:	TC320C-G
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



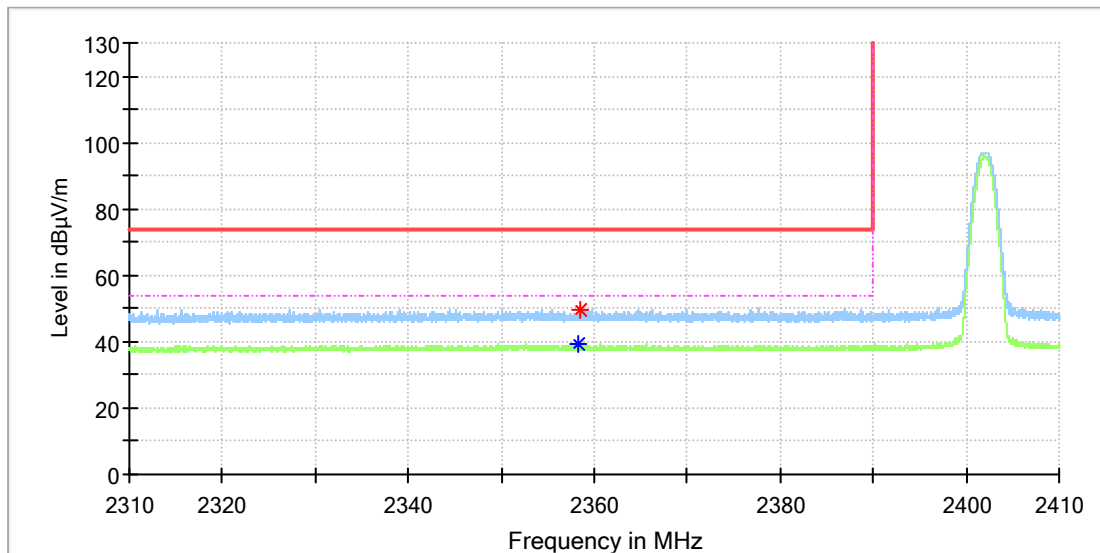
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7453.258333	---	34.50	54.00	19.50	150.0	V	282.0	8.5
7458.175000	43.85	---	74.00	30.15	150.0	V	42.0	8.5
12624.116667	---	41.07	54.00	12.93	150.0	V	114.0	14.9
12647.716667	51.21	---	74.00	22.79	150.0	V	102.0	15.0

APPENDIX C.6: RADIATED EMISSIONS IN RESTRICTED BANDS

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

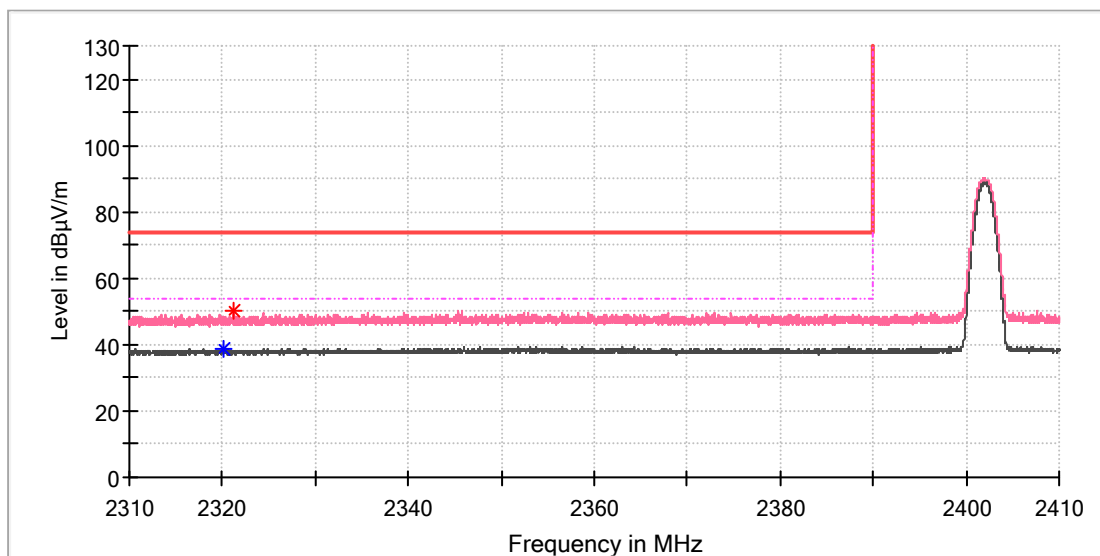


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2358.338235	---	39.08	54.00	14.92	150.0	H	7.0	6.9
2358.470588	49.28	---	74.00	24.72	150.0	H	192.0	6.9

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

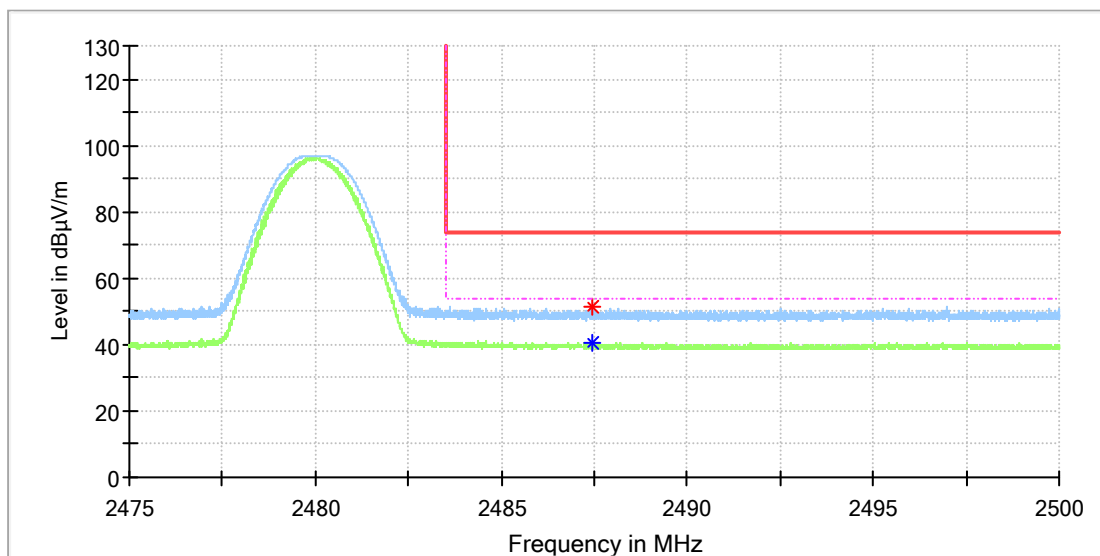


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2320.088235	---	38.79	54.00	15.21	150.0	V	143.0	6.6
2321.117647	50.24	---	74.00	23.76	150.0	V	333.0	6.6

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

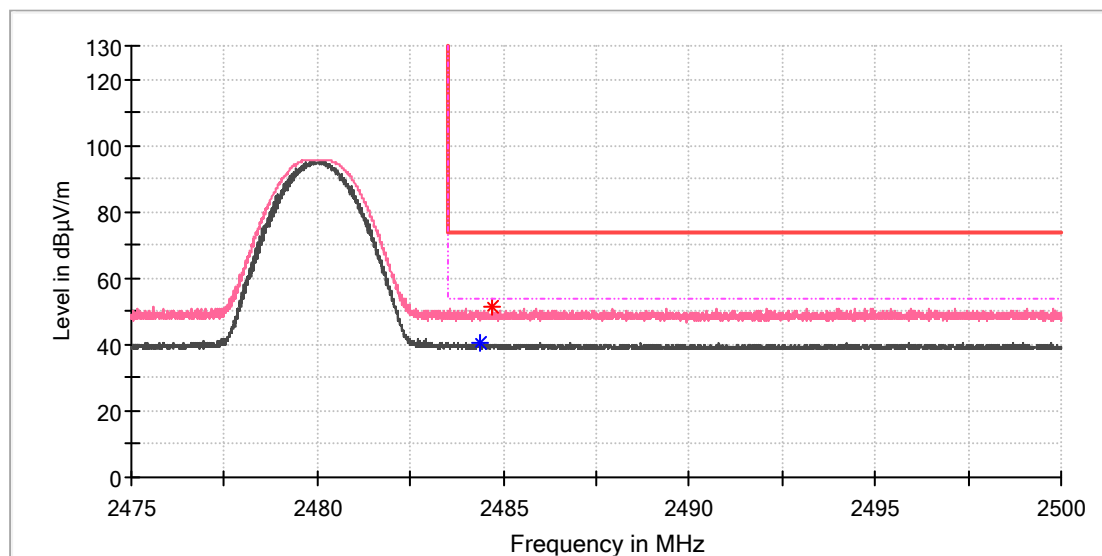


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2487.455882	---	40.54	54.00	13.46	150.0	H	292.0	7.4
2487.459559	51.61	---	74.00	22.40	150.0	H	6.0	7.4

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

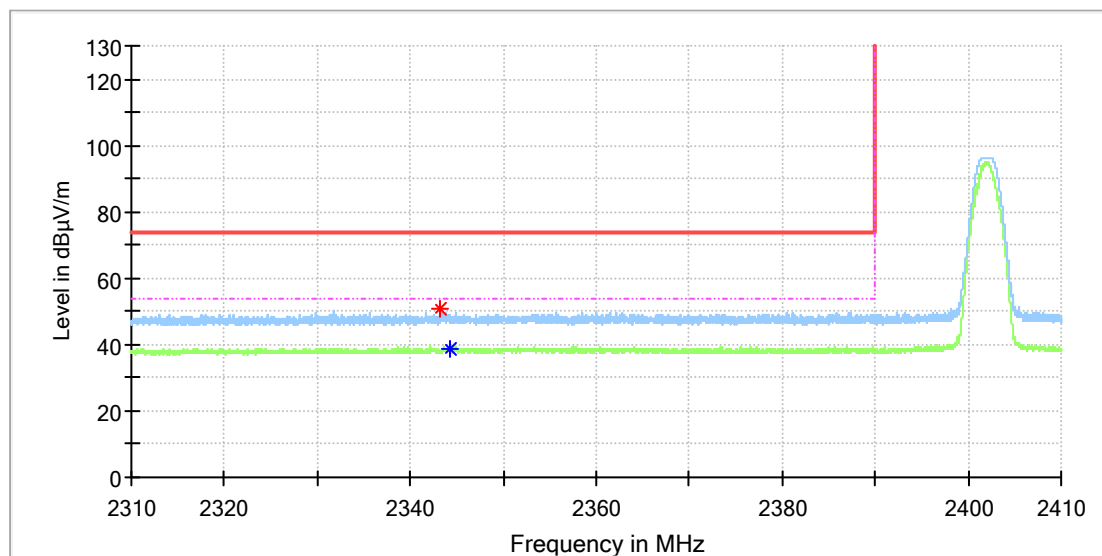


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.397059	---	40.26	54.00	13.74	150.0	V	120.0	7.4
2484.698530	51.29	---	74.00	22.71	150.0	V	308.0	7.4

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

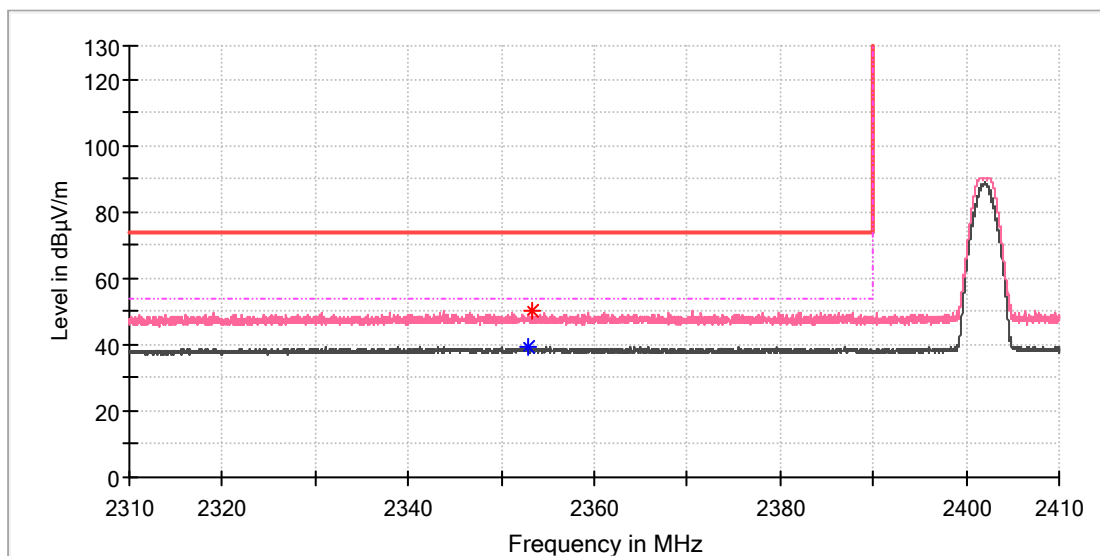


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.102941	50.53	---	74.00	23.47	150.0	H	269.0	6.8
2344.352941	---	38.87	54.00	15.13	150.0	H	44.0	6.9

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

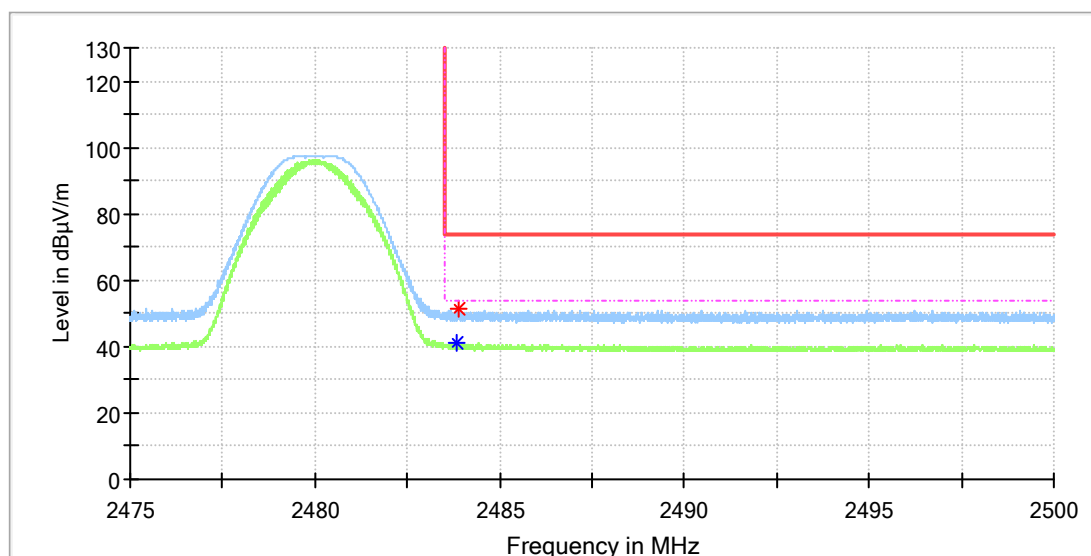


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2352.867647	---	39.23	54.00	14.77	150.0	V	356.0	6.9
2353.294118	50.30	---	74.00	23.70	150.0	V	280.0	6.9

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

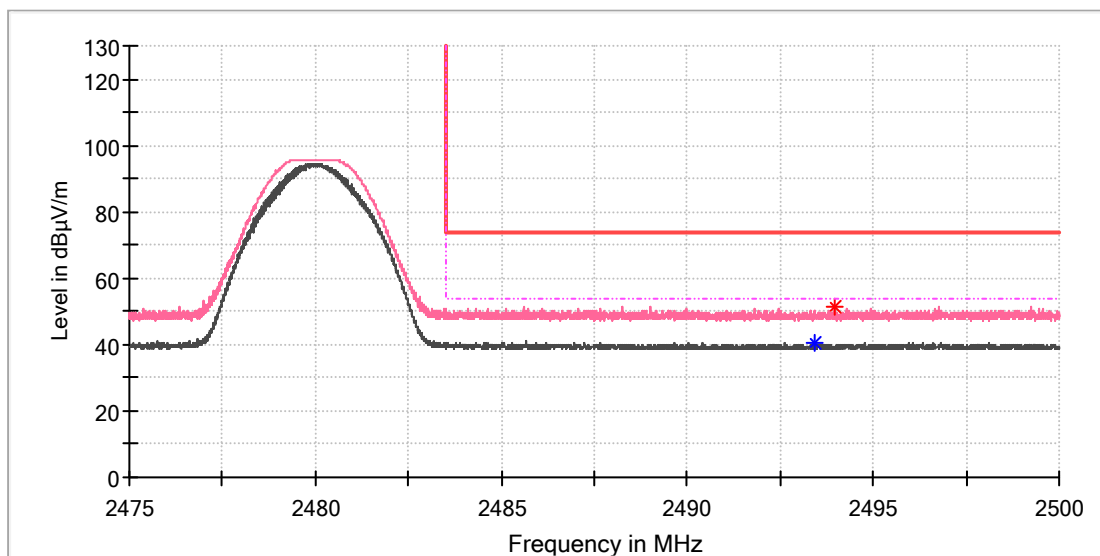


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.860294	---	41.11	54.00	12.89	150.0	H	226.0	7.4
2483.886030	51.23	---	74.00	22.77	150.0	H	206.0	7.4

EUT Information

EUT Name:	Thermostat
Model:	TC320
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168483807/A003717216-002
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

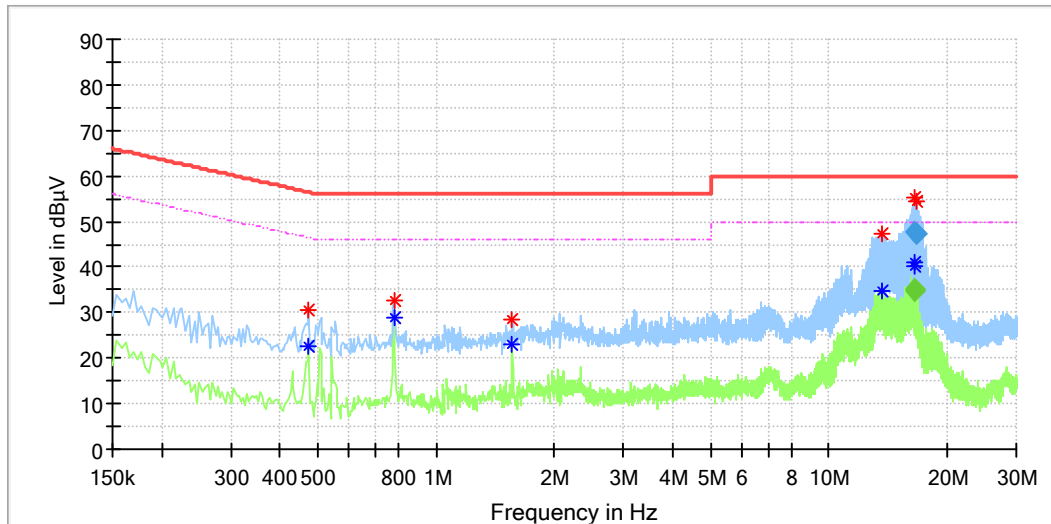


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.433824	---	40.24	54.00	13.76	150.0	V	185.0	7.4
2493.952206	51.47	---	74.00	22.53	150.0	V	52.0	7.4

APPENDIX C.7: CONDUCTED EMISSION ON AC MAINS

TC321B-G

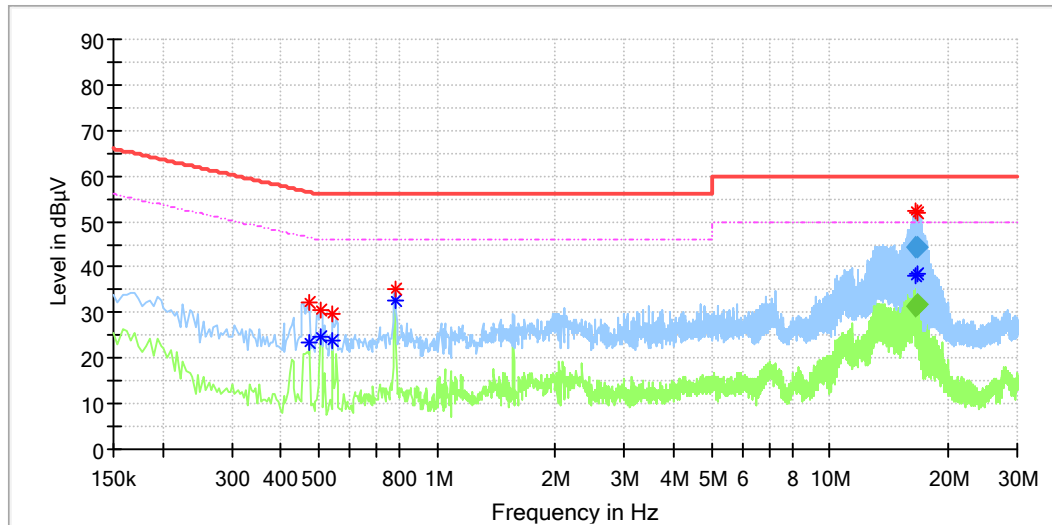


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.474000	---	22.78	46.44	23.67	L1	10.0
0.474000	30.49	---	56.44	25.96	L1	10.0
0.782000	32.57	---	56.00	23.43	L1	10.0
0.782000	---	28.82	46.00	17.18	L1	10.0
1.562000	---	23.13	46.00	22.87	L1	10.1
1.562000	28.55	---	56.00	27.45	L1	10.1
13.594000	47.42	---	60.00	12.58	L1	10.4
13.610000	---	34.63	50.00	15.37	L1	10.4
16.517500	---	40.05	50.00	9.95	L1	10.4
16.561500	55.27	---	60.00	4.73	L1	10.4
16.569500	---	40.96	50.00	9.04	L1	10.4
16.645500	54.37	---	60.00	5.63	L1	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
16.517500	---	34.84	50.00	15.16	1000.0	9.000	L1	10.4
16.561500	47.53	---	60.00	12.47	1000.0	9.000	L1	10.4
16.569500	---	35.21	50.00	14.79	1000.0	9.000	L1	10.4
16.645500	47.39	---	60.00	12.61	1000.0	9.000	L1	10.4



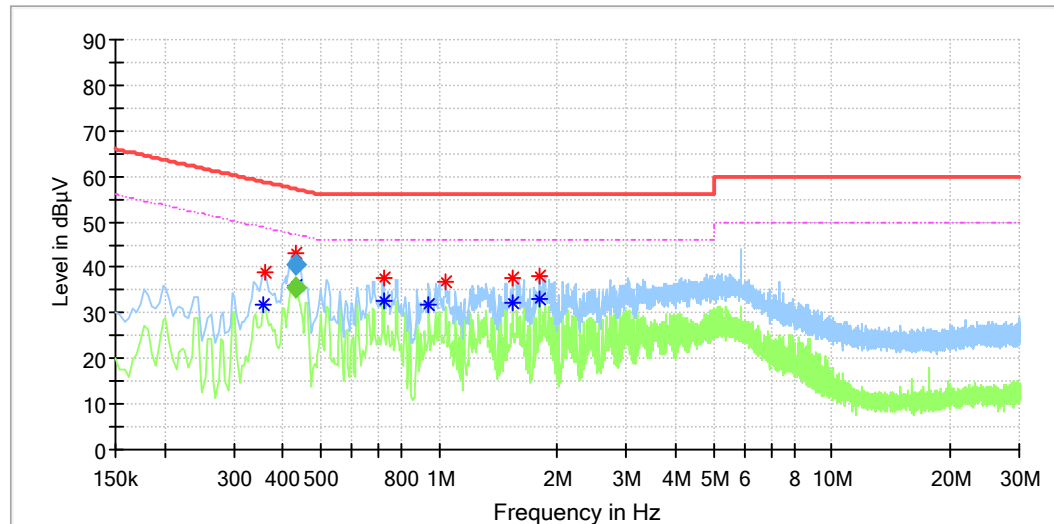
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.474000	---	23.40	46.44	23.05	N	9.8
0.474000	32.16	---	56.44	24.28	N	9.8
0.506000	30.73	---	56.00	25.27	N	9.8
0.506000	---	24.57	46.00	21.43	N	9.8
0.542000	---	24.02	46.00	21.98	N	9.8
0.542000	29.63	---	56.00	26.37	N	9.8
0.782000	---	32.66	46.00	13.34	N	9.8
0.782000	35.26	---	56.00	20.74	N	9.8
16.449500	52.39	---	60.00	7.61	N	10.2
16.461500	---	38.16	50.00	11.84	N	10.2
16.709500	51.95	---	60.00	8.05	N	10.2
16.710500	---	38.69	50.00	11.31	N	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
16.449500	44.29	---	60.00	15.71	1000.0	9.000	N	10.2
16.461500	---	31.57	50.00	18.43	1000.0	9.000	N	10.2
16.709500	44.33	---	60.00	15.67	1000.0	9.000	N	10.2
16.710500	---	31.74	50.00	18.26	1000.0	9.000	N	10.2

TC320C-G

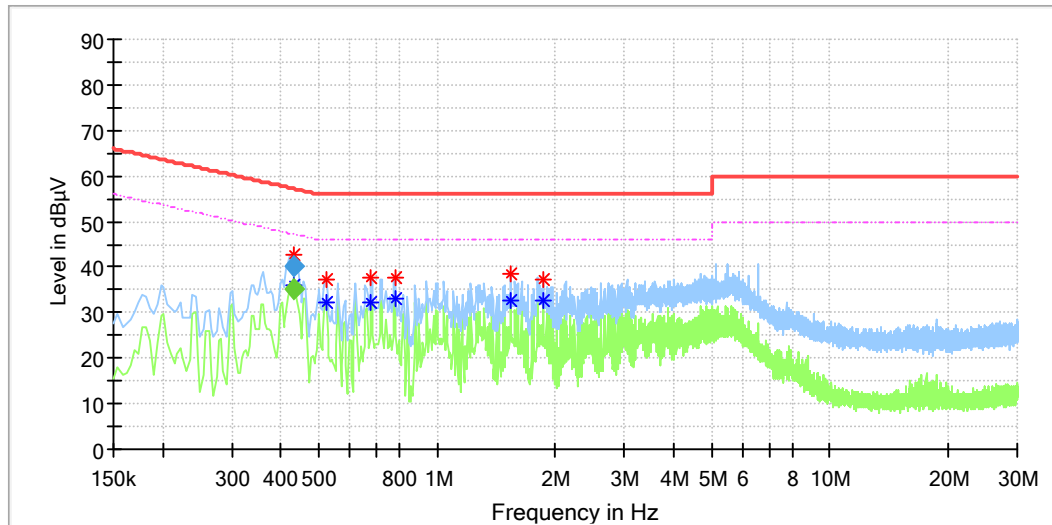


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.358000	---	31.62	48.78	17.15	L1	9.9
0.362000	38.90	---	58.68	19.79	L1	9.9
0.429500	43.16	---	57.25	14.10	L1	9.9
0.429500	---	35.88	47.33	11.45	L1	9.9
0.722000	37.75	---	56.00	18.25	L1	10.0
0.722000	---	32.47	46.00	13.53	L1	10.0
0.942000	---	31.69	46.00	14.31	L1	10.0
1.038000	36.86	---	56.00	19.14	L1	10.0
1.538000	37.84	---	56.00	18.16	L1	10.1
1.538000	---	32.14	46.00	13.86	L1	10.1
1.802000	---	32.94	46.00	13.06	L1	10.1
1.802000	38.28	---	56.00	17.72	L1	10.1

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.429500	---	35.57	47.26	11.69	1000.0	9.000	L1	9.9
0.429500	40.81	---	57.26	16.46	1000.0	9.000	L1	9.9



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.429500	---	36.08	47.18	11.09	N	9.8
0.429500	42.57	---	57.18	14.61	N	9.8
0.522000	---	32.37	46.00	13.63	N	9.8
0.522000	37.19	---	56.00	18.81	N	9.8
0.678000	---	32.27	46.00	13.73	N	9.8
0.678000	37.70	---	56.00	18.30	N	9.8
0.782000	37.50	---	56.00	18.50	N	9.8
0.782000	---	33.21	46.00	12.79	N	9.8
1.538000	---	32.67	46.00	13.33	N	9.8
1.542000	38.35	---	56.00	17.65	N	9.8
1.858000	37.40	---	56.00	18.60	N	9.8
1.862000	---	32.60	46.00	13.40	N	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.429500	---	35.15	47.26	12.12	1000.0	9.000	N	9.8
0.429500	40.24	---	57.26	17.02	1000.0	9.000	N	9.8