

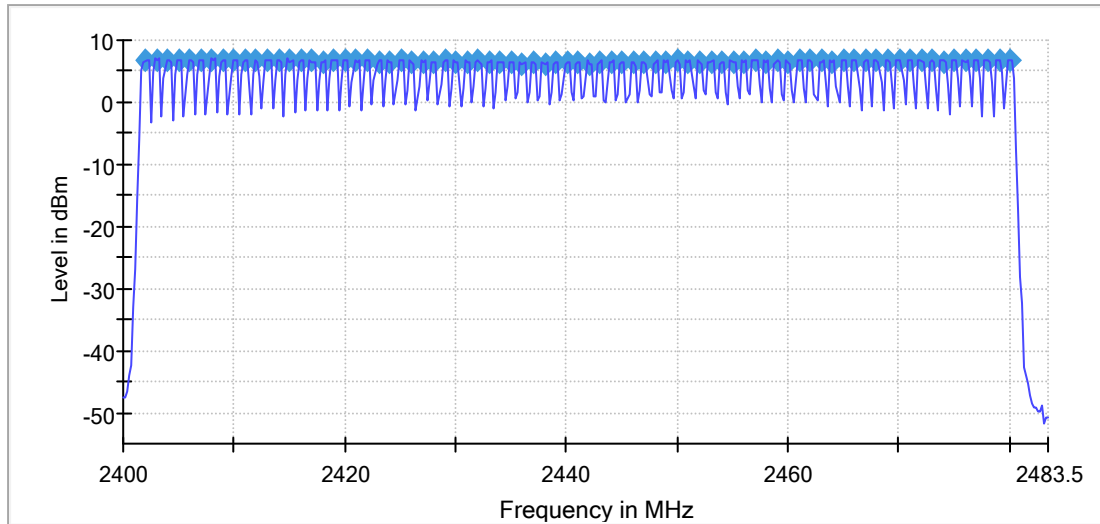
Appendix B.5: Test Results of Number of Hopping Frequency

BR mode (GFSK)

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence

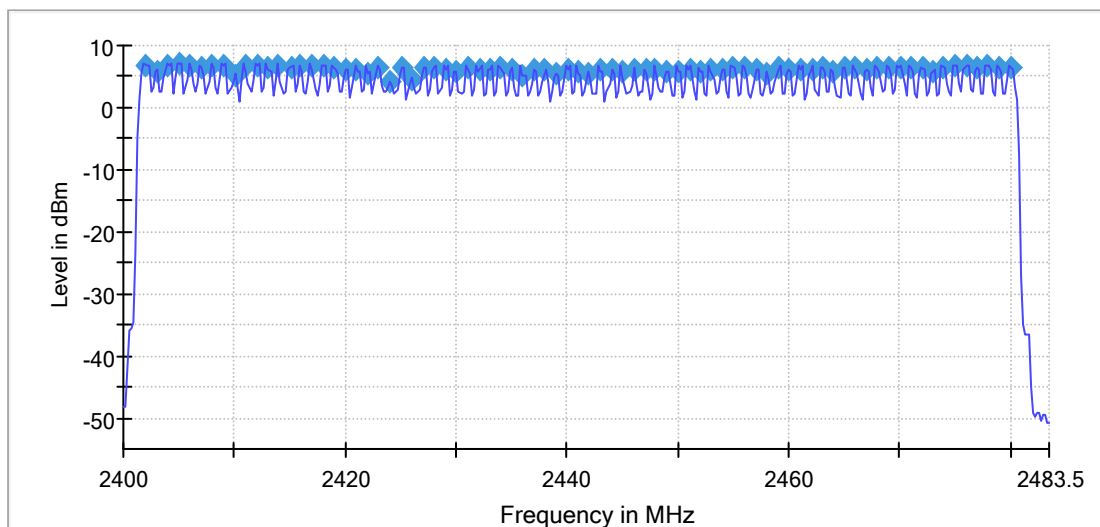


EDR mode (8DPSK)

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



Appendix B.6: Test Results of Time of Occupancy

BR mode (GFSK)

BDR-DH1

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	11	65.240	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
1183.710	3998.640	2626.801

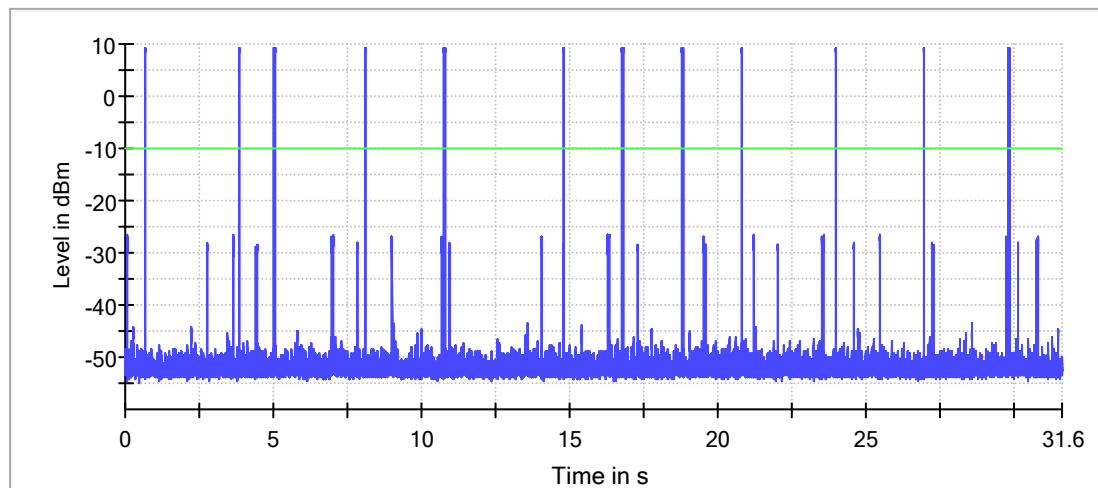
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
5.320	5.700	400.000	0.000	5.447

DwellTime

Min (ms)	Max (ms)	Mean (ms)
16.630	17.880	16.861

Time of Channel Occupancy



Trace Threshold

BDR-DH3

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	11	156.880	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
1311.220	3423.650	2373.933

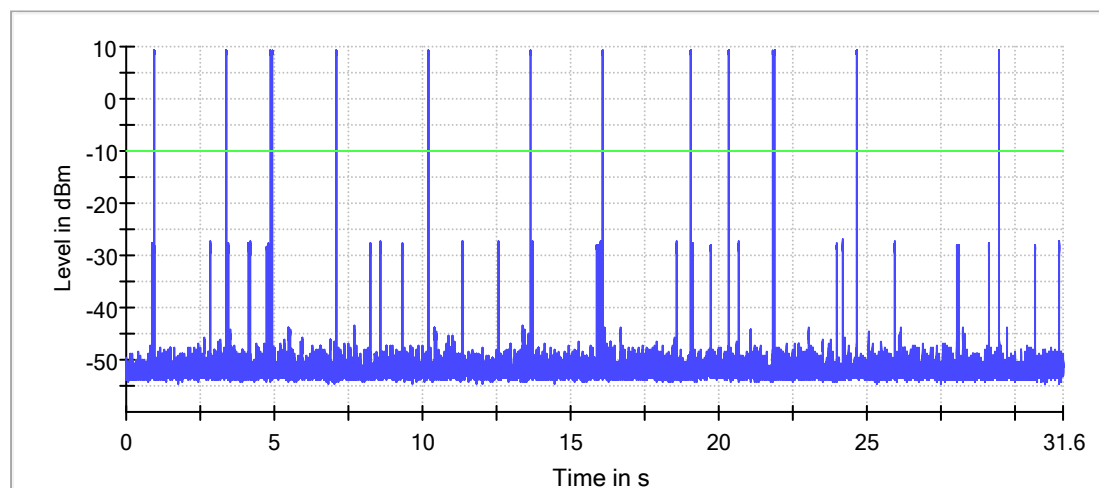
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
13.040	13.120	400.000	0.000	13.076

DwellTime

Min (ms)	Max (ms)	Mean (ms)
19.130	19.140	19.135

Time of Channel Occupancy(2)



— Trace — Threshold

BDR-DH5

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	12	224.620	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
608.740	4382.370	2414.023

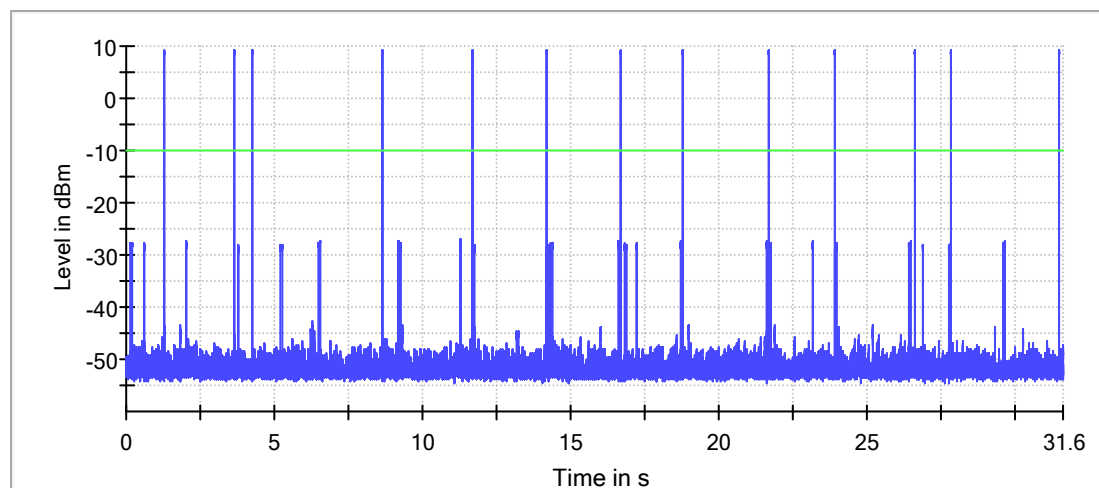
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
17.260	17.280	400.000	0.000	17.278

DwellTime

Min (ms)	Max (ms)	Mean (ms)
21.620	21.630	21.629

Time of Channel Occupancy(3)



Trace Threshold

EDR mode (8DPSK)

EDR-3DH1

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	11	66.970	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
543.730	4574.870	2722.799

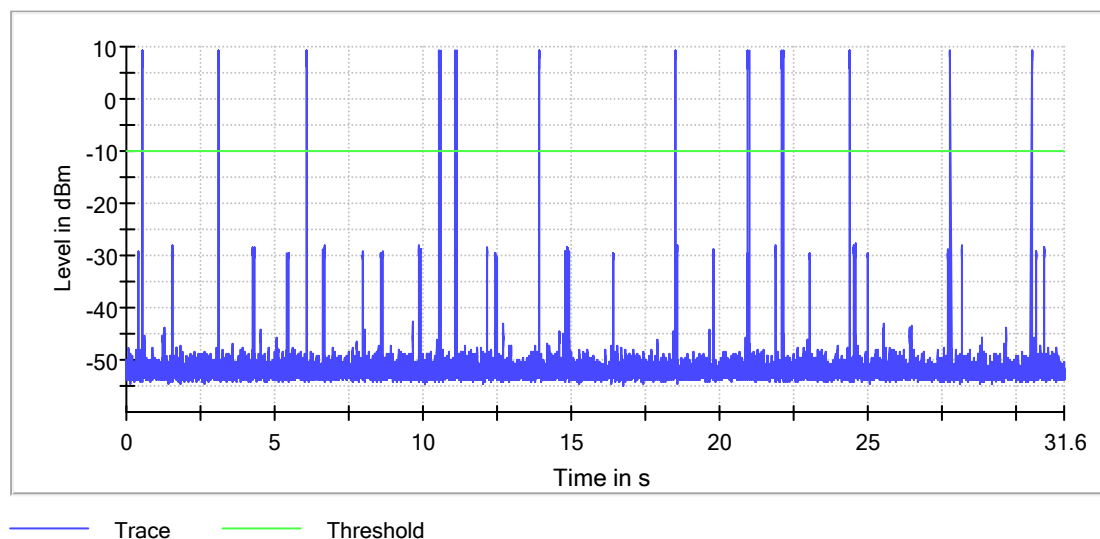
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
5.460	5.850	400.000	0.000	5.556

DwellTime

Min (ms)	Max (ms)	Mean (ms)
16.640	17.890	16.869

Time of Channel Occupancy



EDR-3DH3

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	12	170.640	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
128.740	5151.110	2417.092

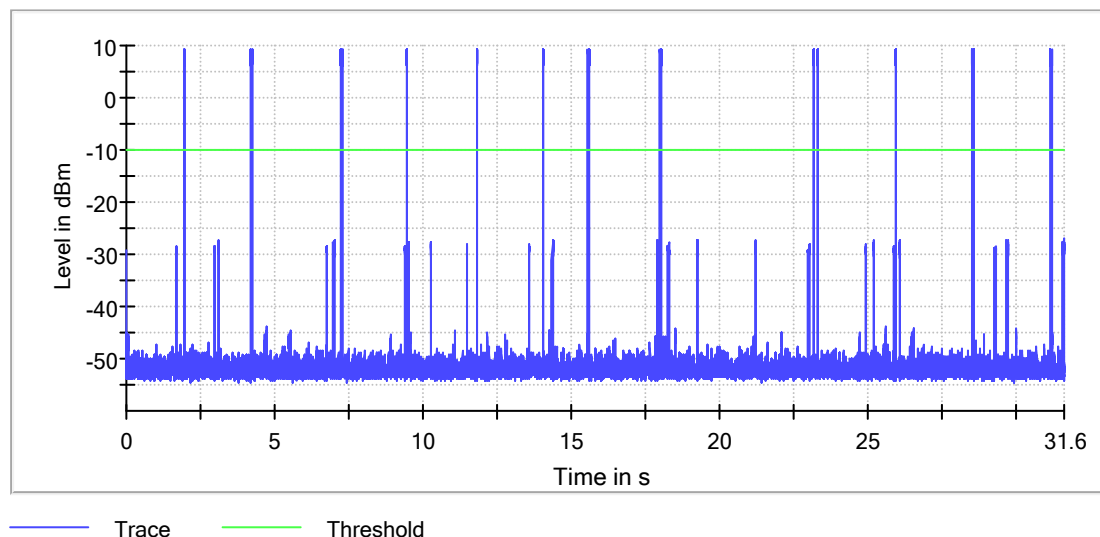
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
13.120	13.200	400.000	0.000	13.127

DwellTime

Min (ms)	Max (ms)	Mean (ms)
19.140	19.150	19.141

Time of Channel Occupancy(2)



EDR-3DH5

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	11	208.230	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
352.490	4479.870	2527.554

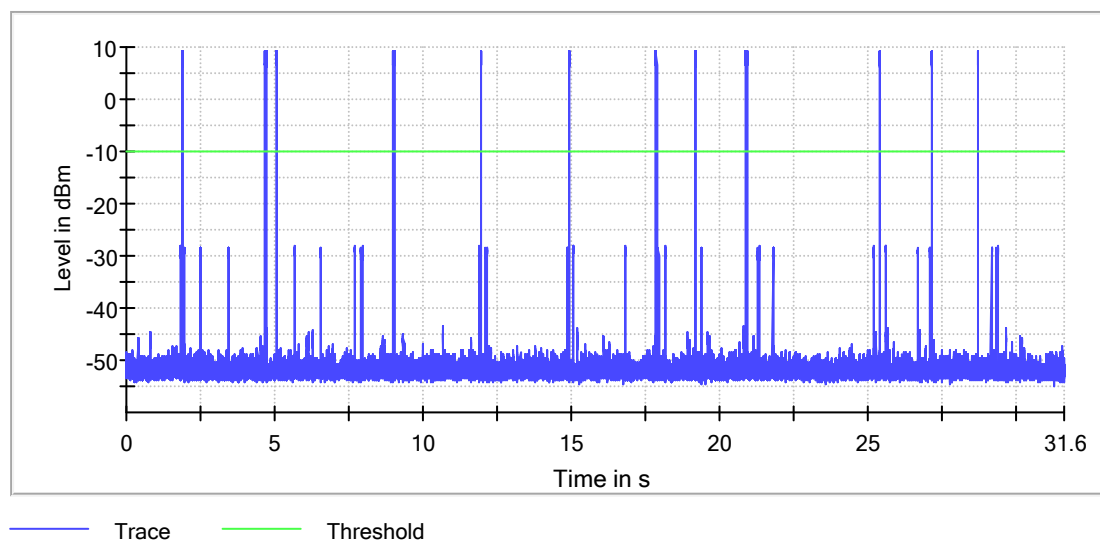
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
17.340	17.390	400.000	0.000	17.354

DwellTime

Min (ms)	Max (ms)	Mean (ms)
21.640	21.650	21.641

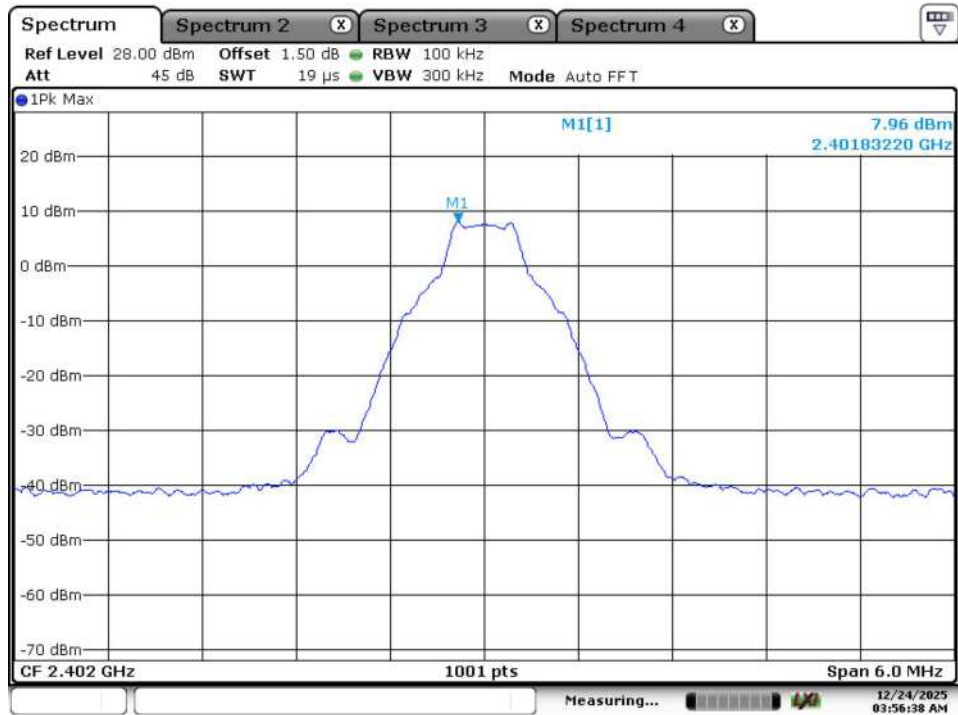
Time of Channel Occupancy(3)



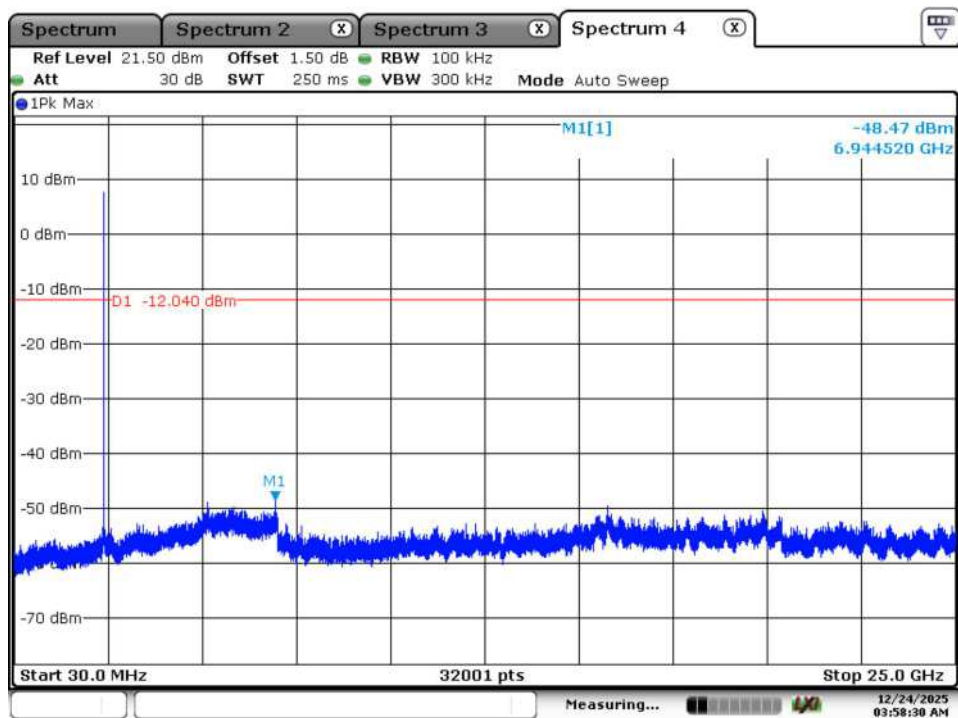
Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BR mode (GFSK)

Low Channel

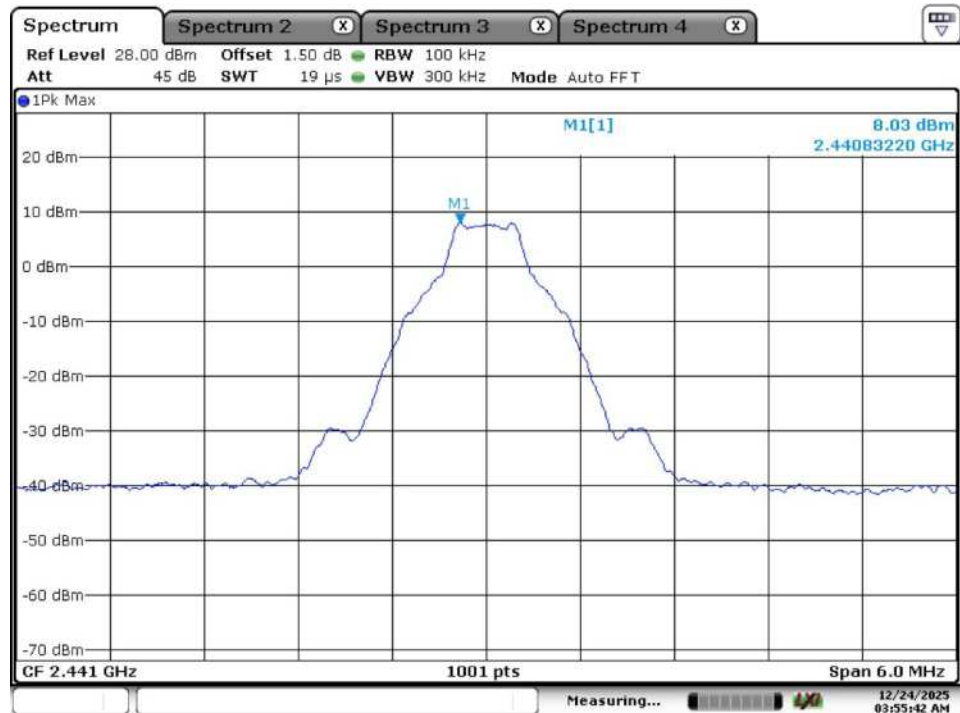


Date: 24.DEC.2025 03:56:39

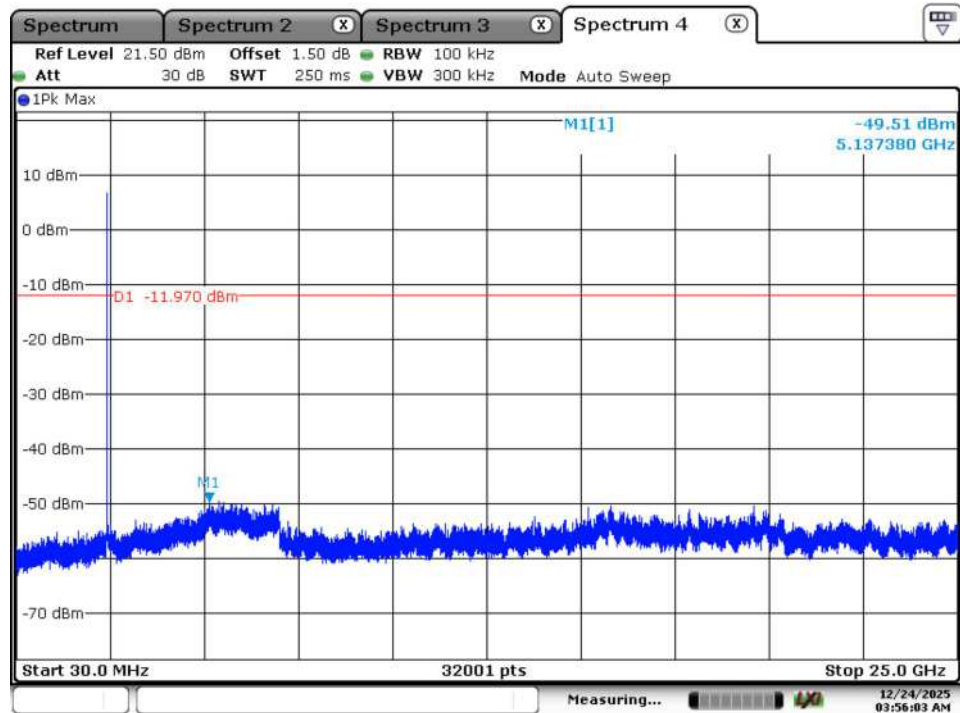


Date: 24.DEC.2025 03:58:30

Middle Channel

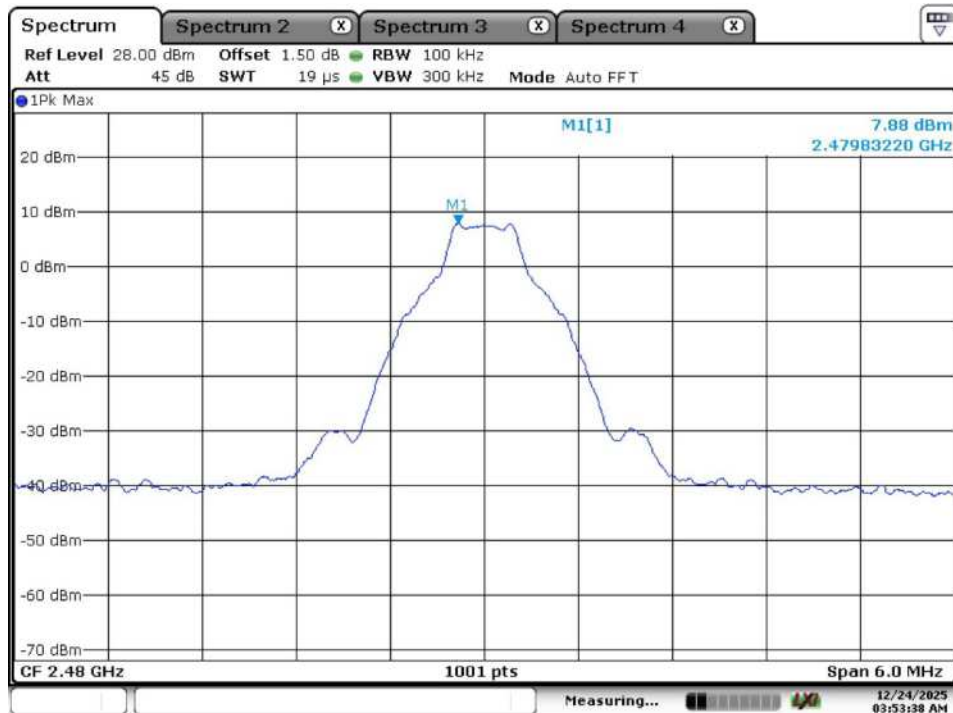


Date: 24.DEC.2025 03:55:42

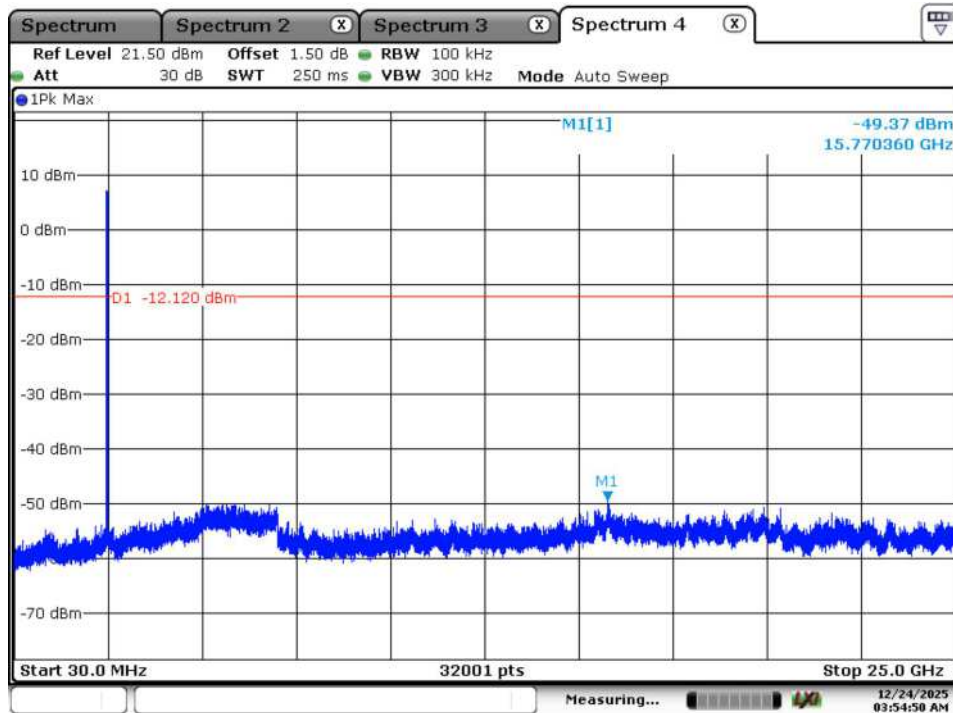


Date: 24.DEC.2025 03:56:03

High Channel

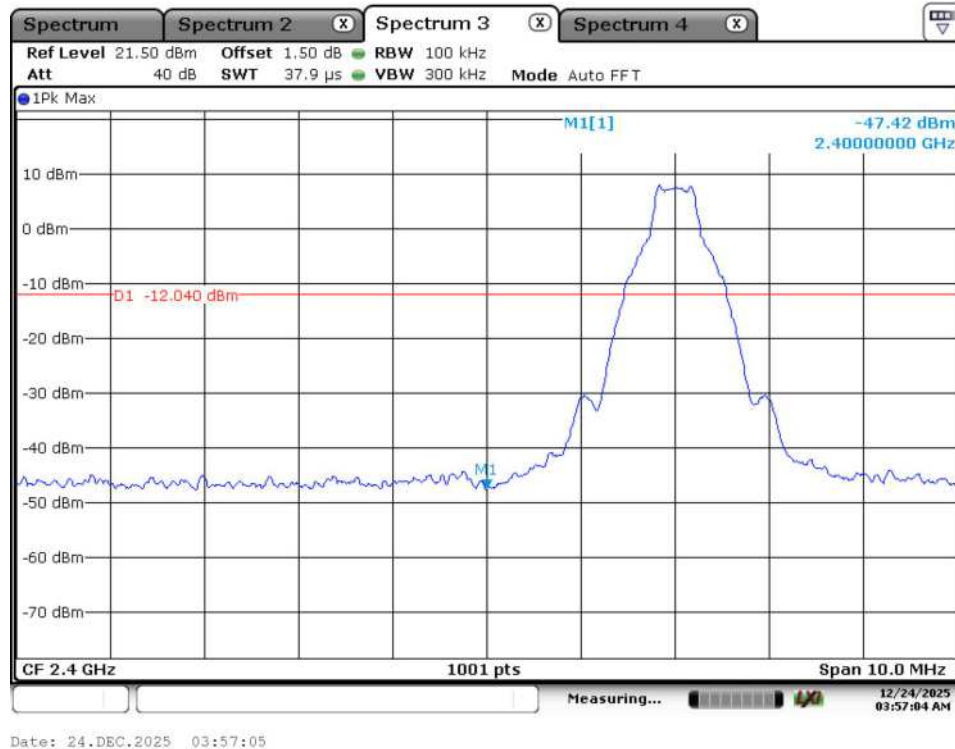


Date: 24.DEC.2025 03:53:38

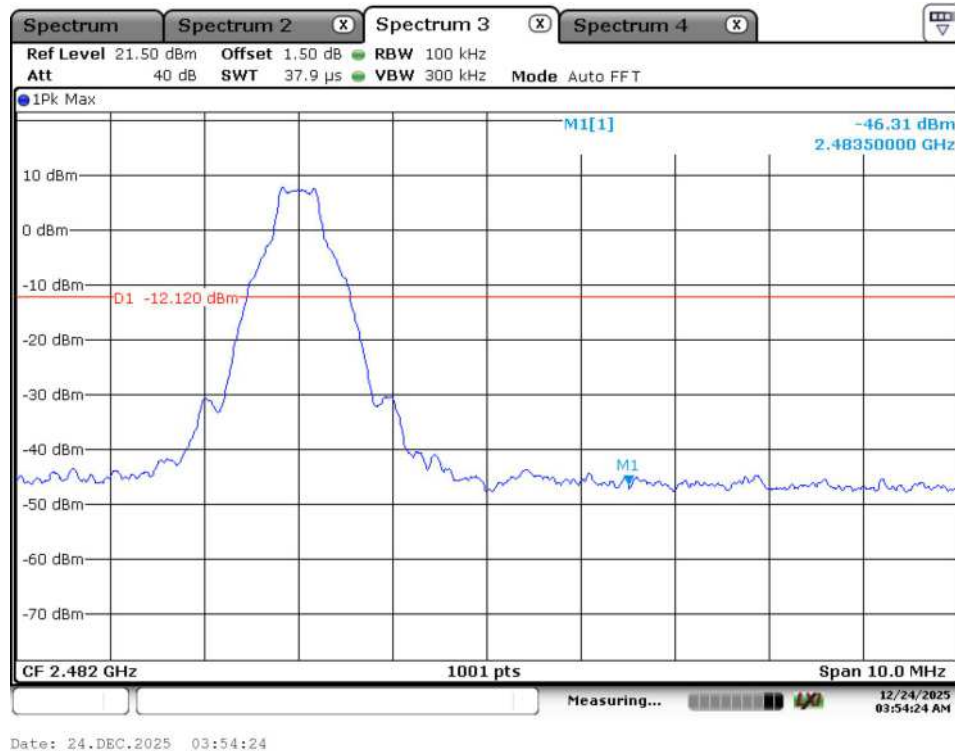


Date: 24.DEC.2025 03:54:50

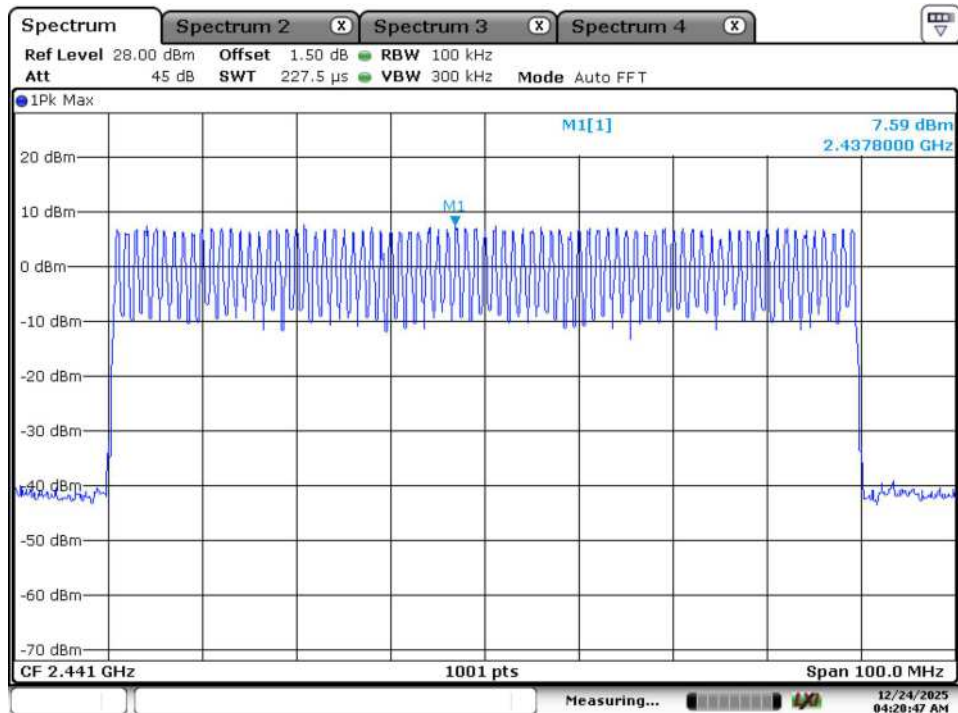
Band Edge, Low Channel



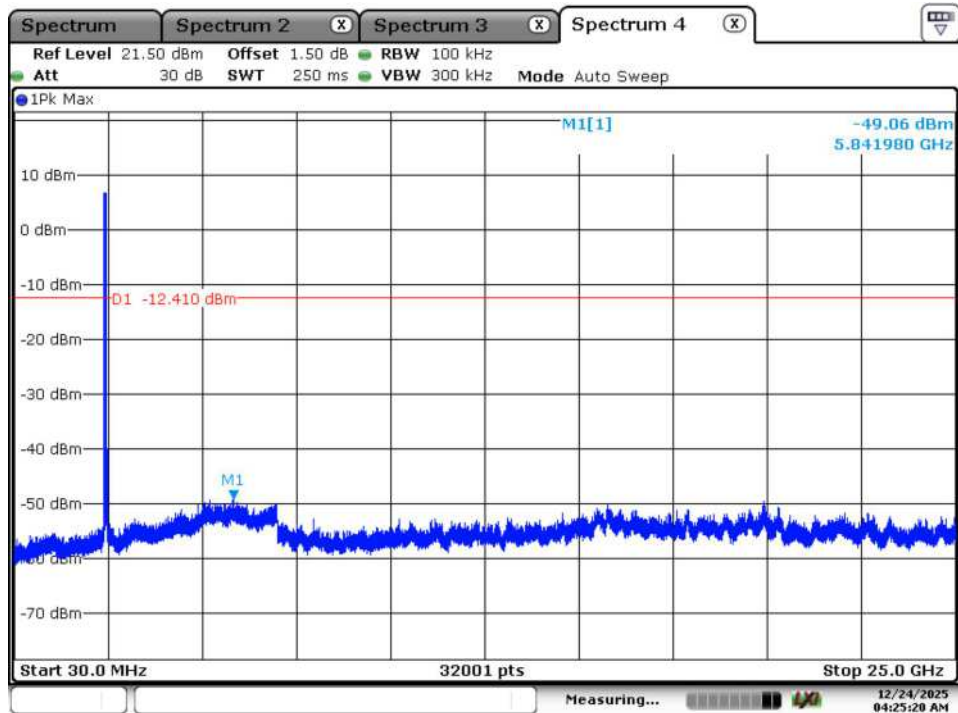
Band Edge, High Channel



Hopping Mode

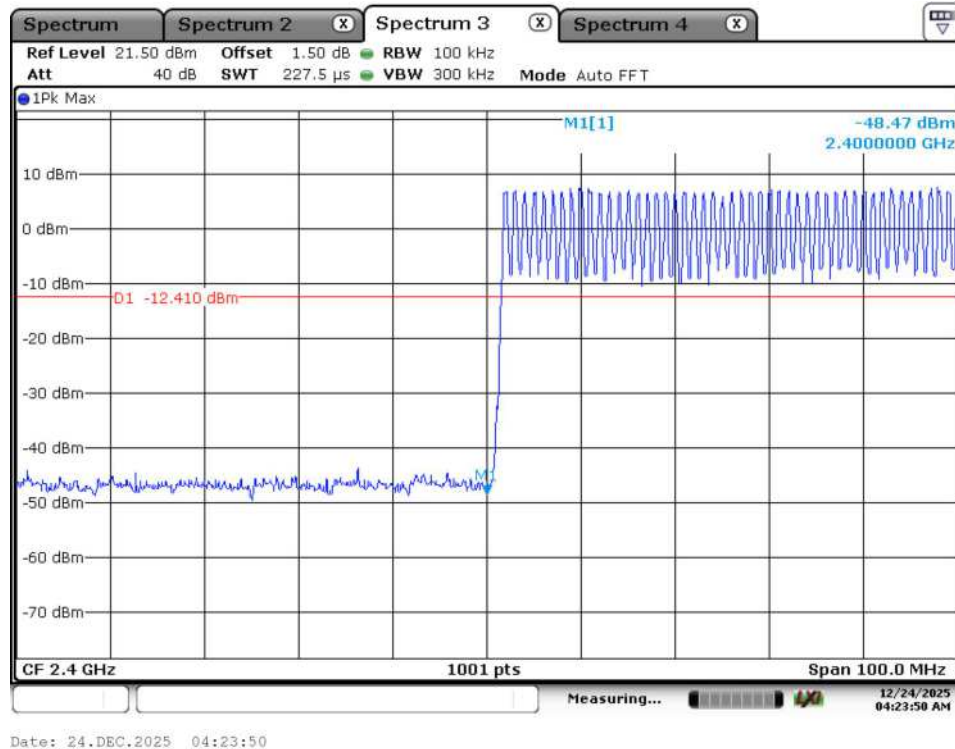


Date: 24.DEC.2025 04:20:48

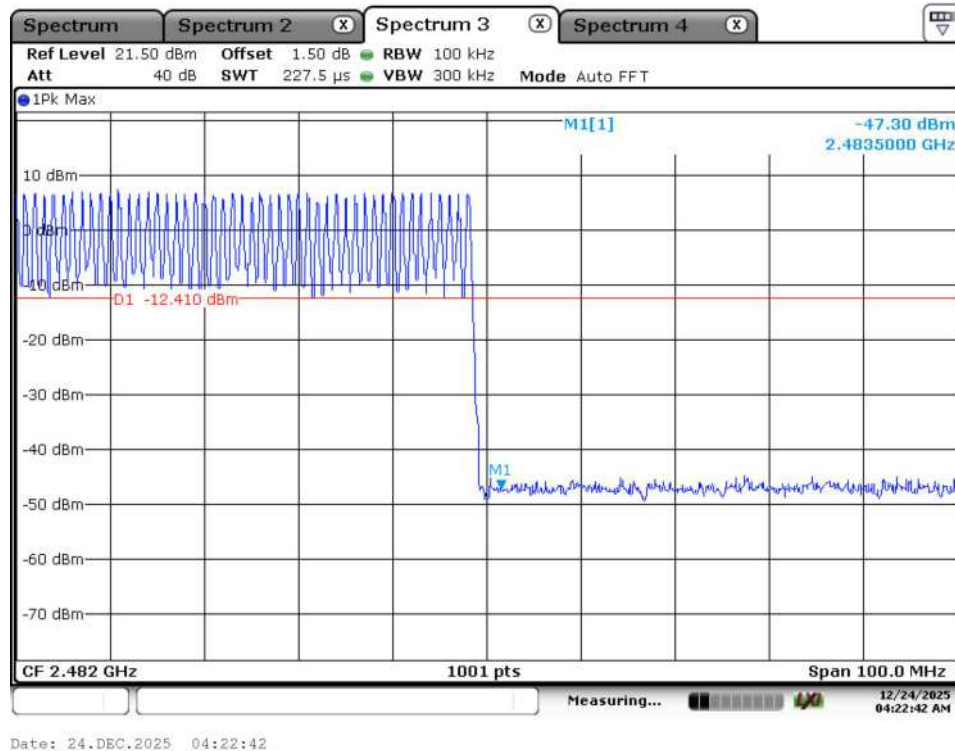


Date: 24.DEC.2025 04:25:21

Band Edge, Hopping Mode, Low Channel

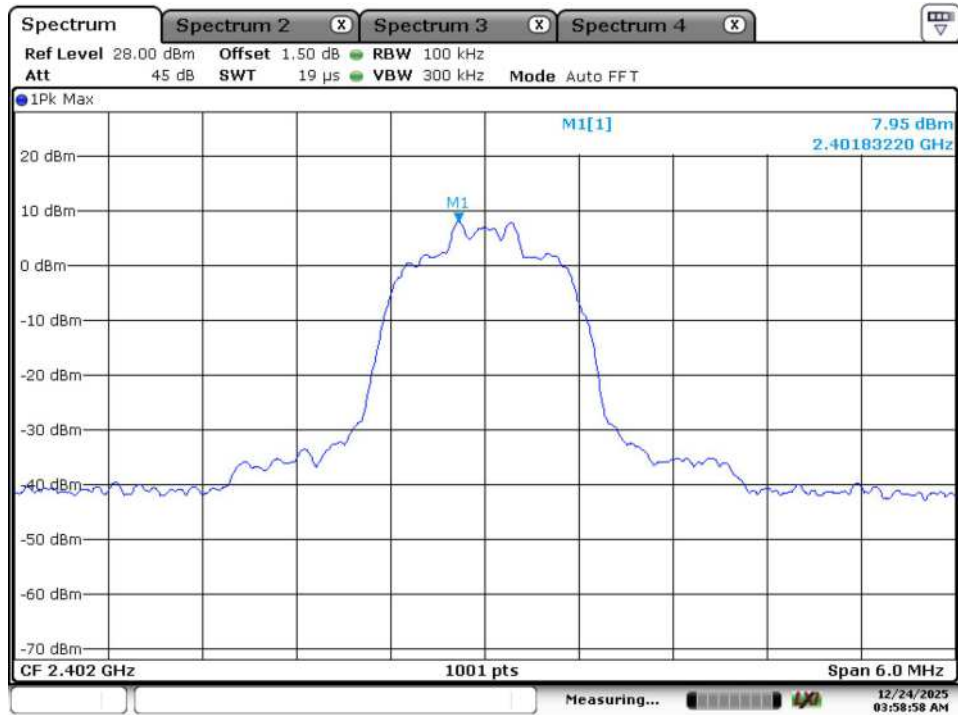


Band Edge, Hopping Mode, High Channel

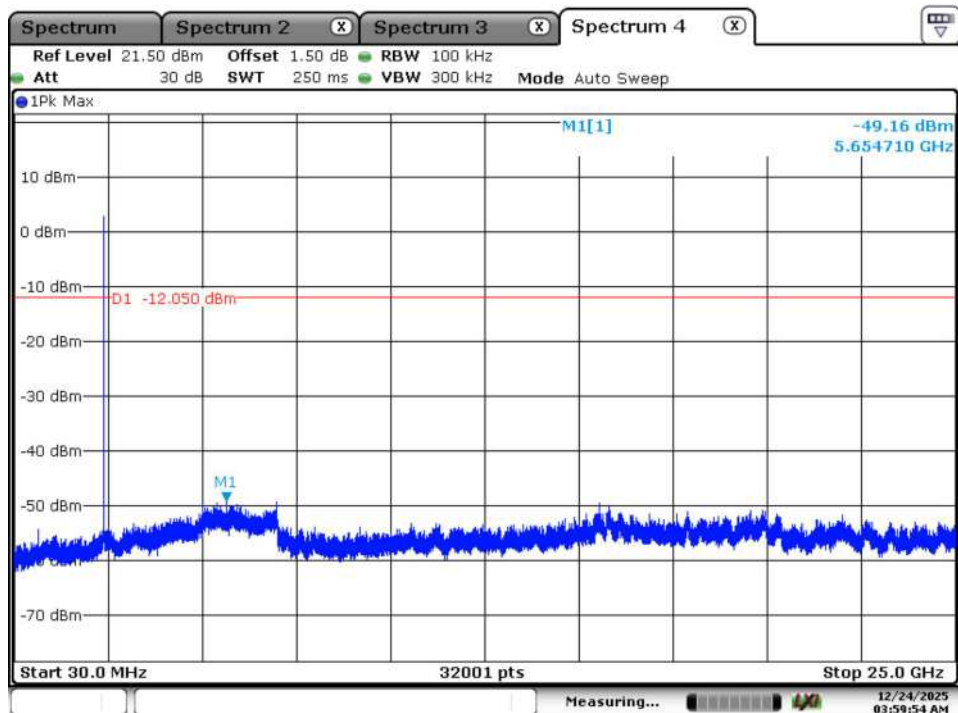


EDR mode (8DPSK)

Low Channel

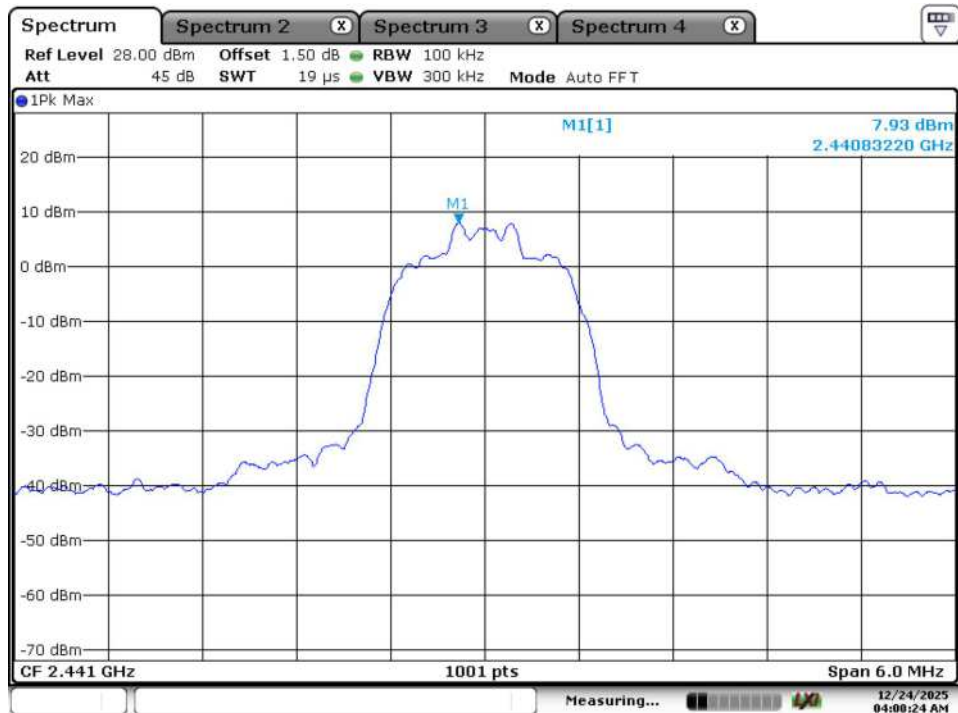


Date: 24.DEC.2025 03:58:58

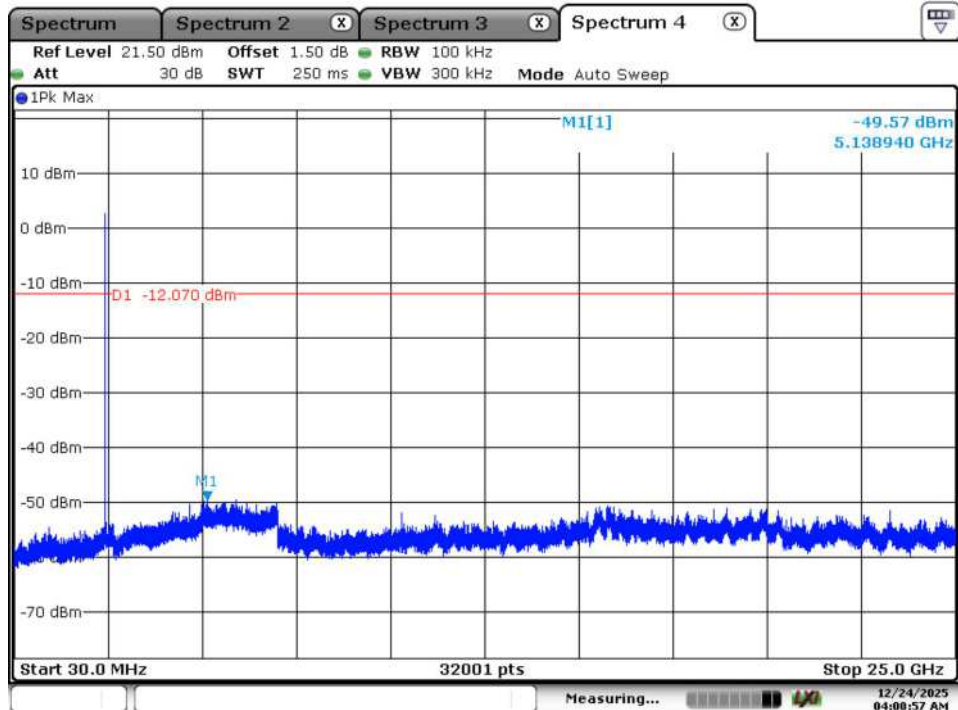


Date: 24.DEC.2025 03:59:55

Middle Channel

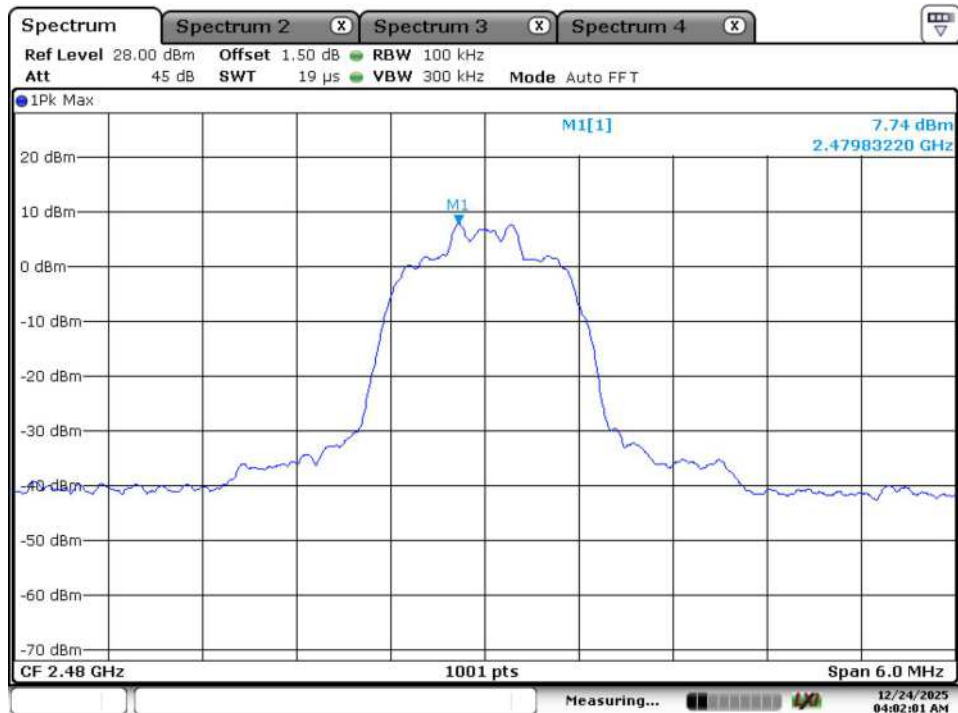


Date: 24.DEC.2025 04:00:24

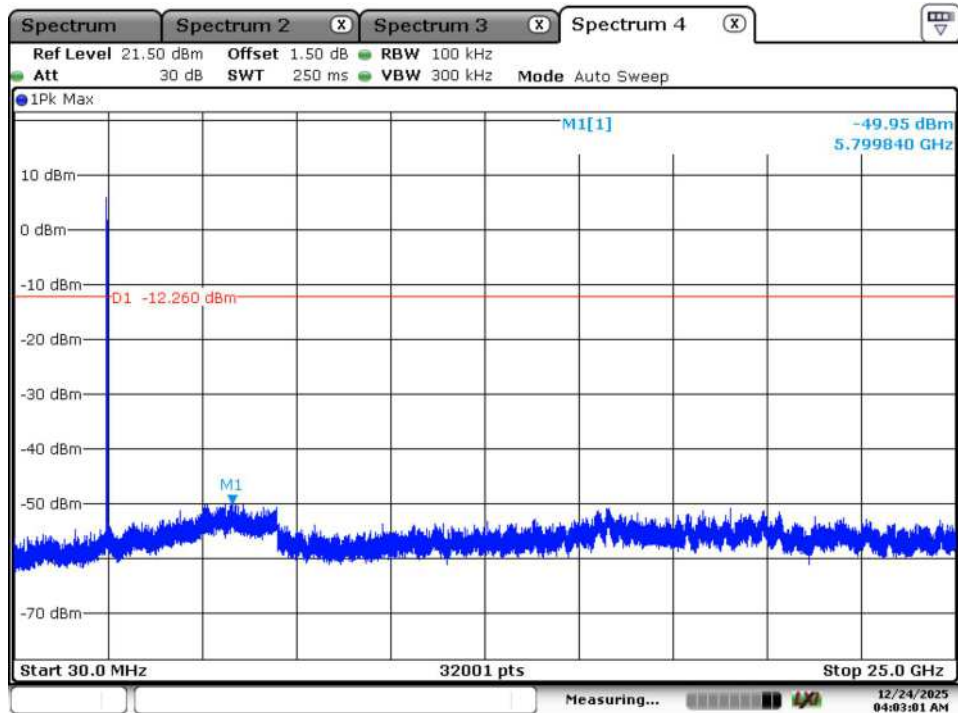


Date: 24.DEC.2025 04:00:57

High Channel

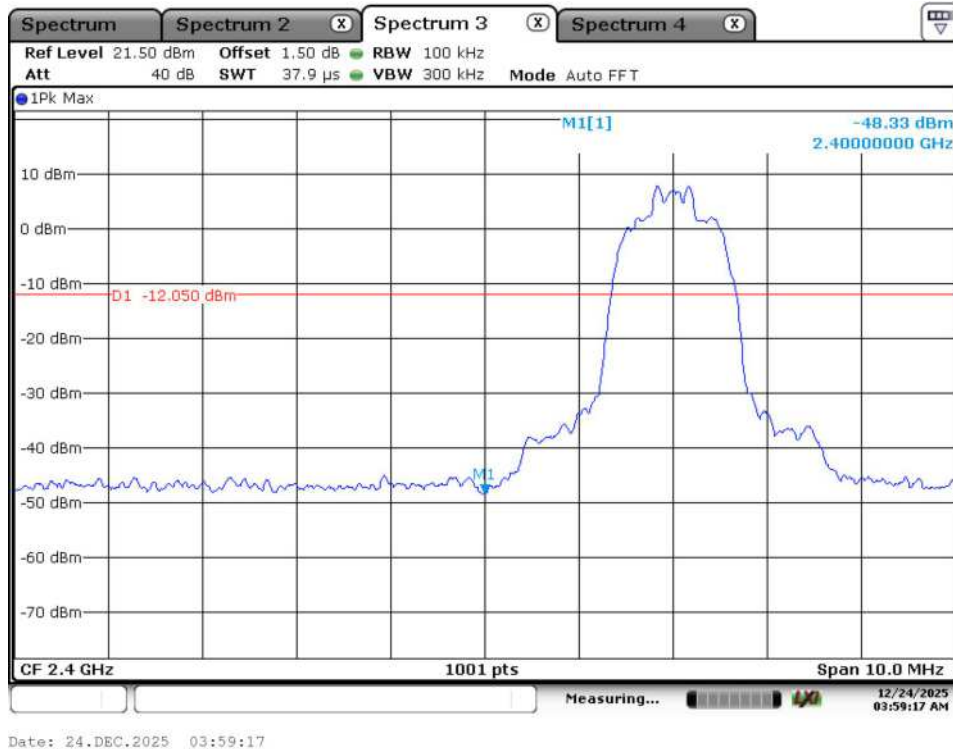


Date: 24.DEC.2025 04:02:01

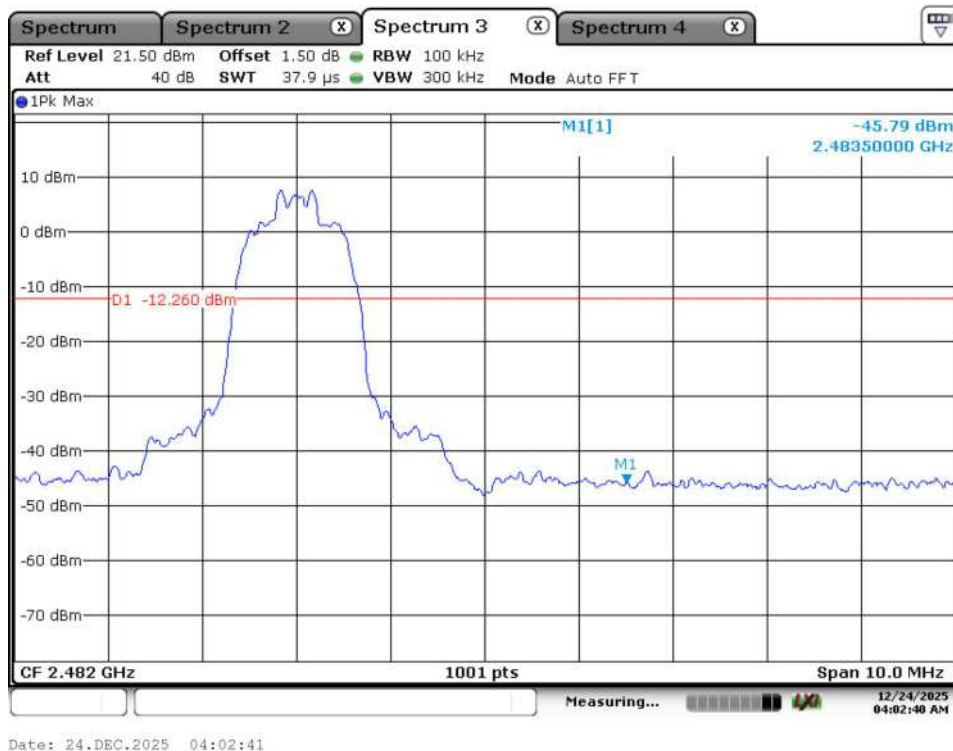


Date: 24.DEC.2025 04:03:02

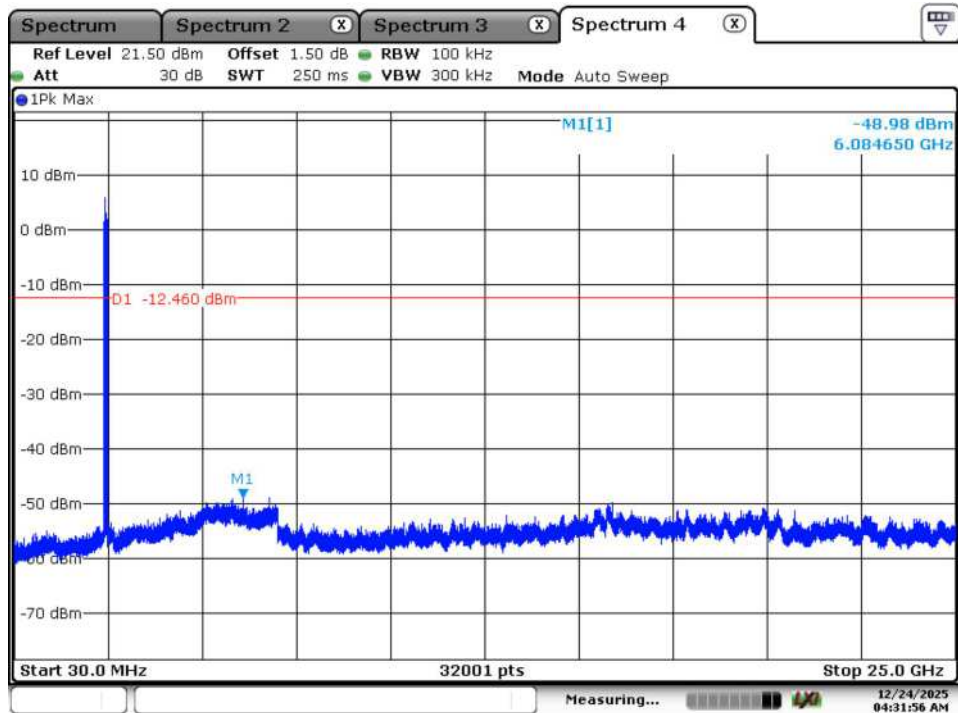
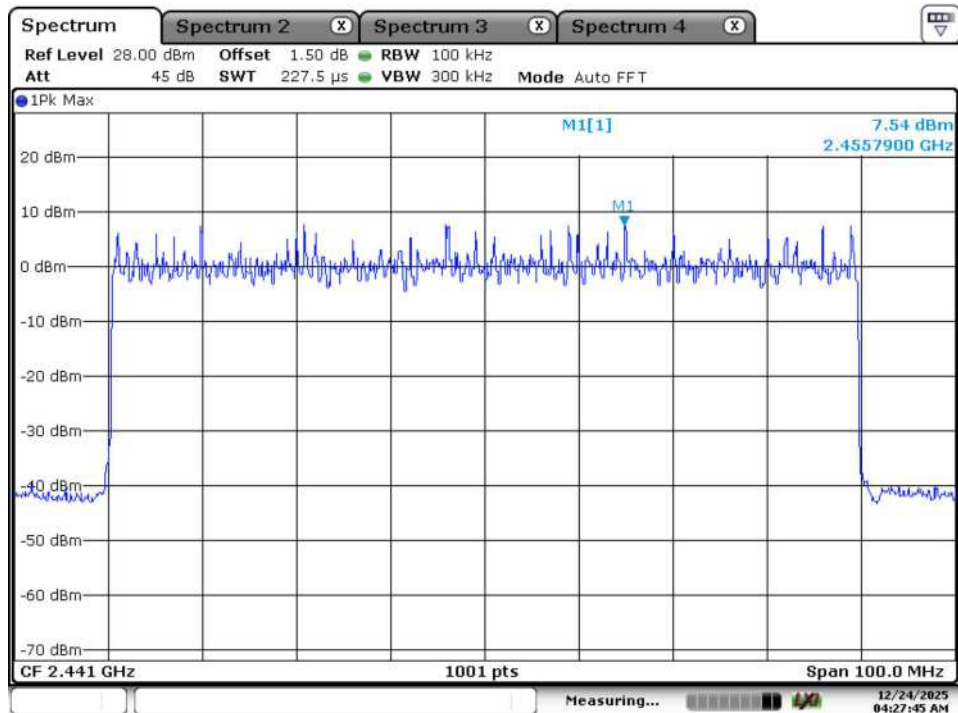
Band Edge, Low Channel



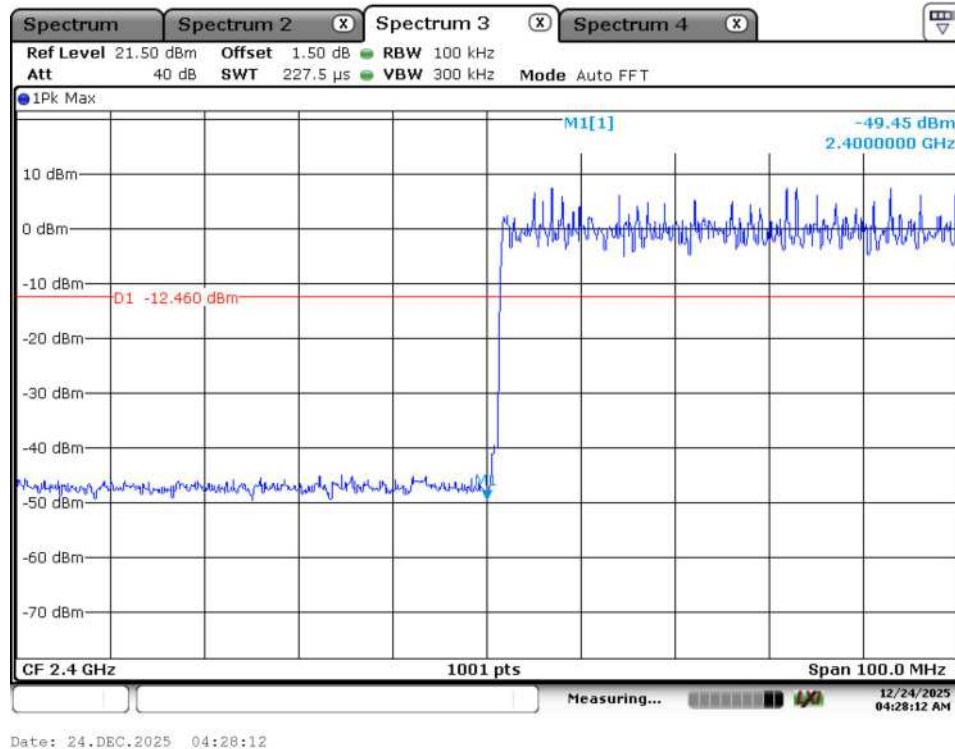
Band Edge, High Channel



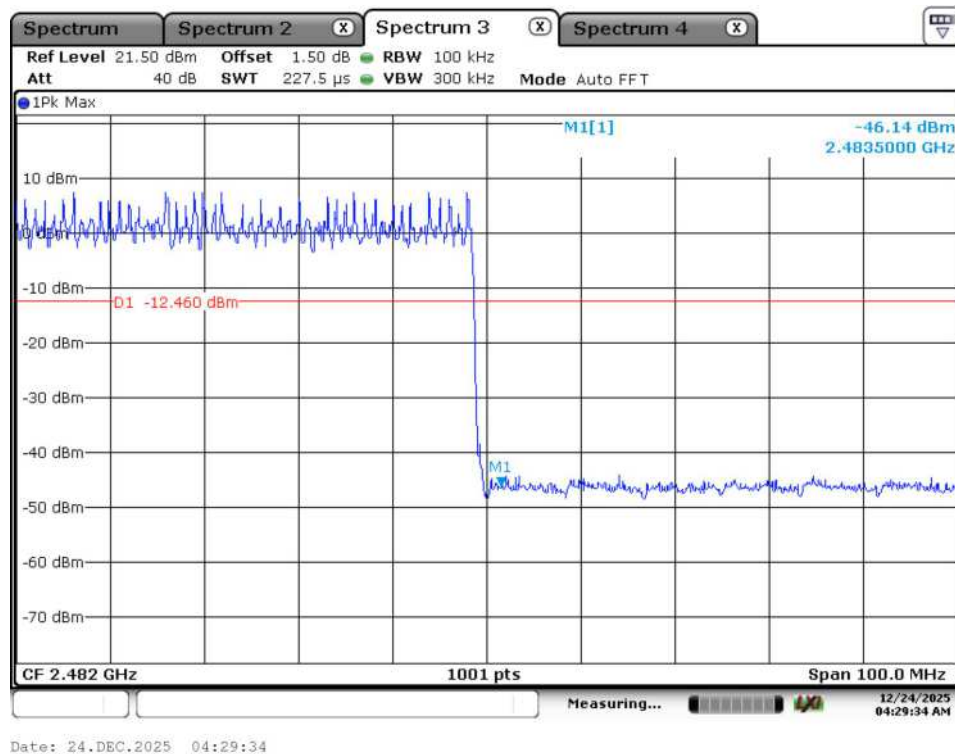
Hopping Mode



Band Edge, Hopping Mode, Low Channel



Band Edge, Hopping Mode, High Channel



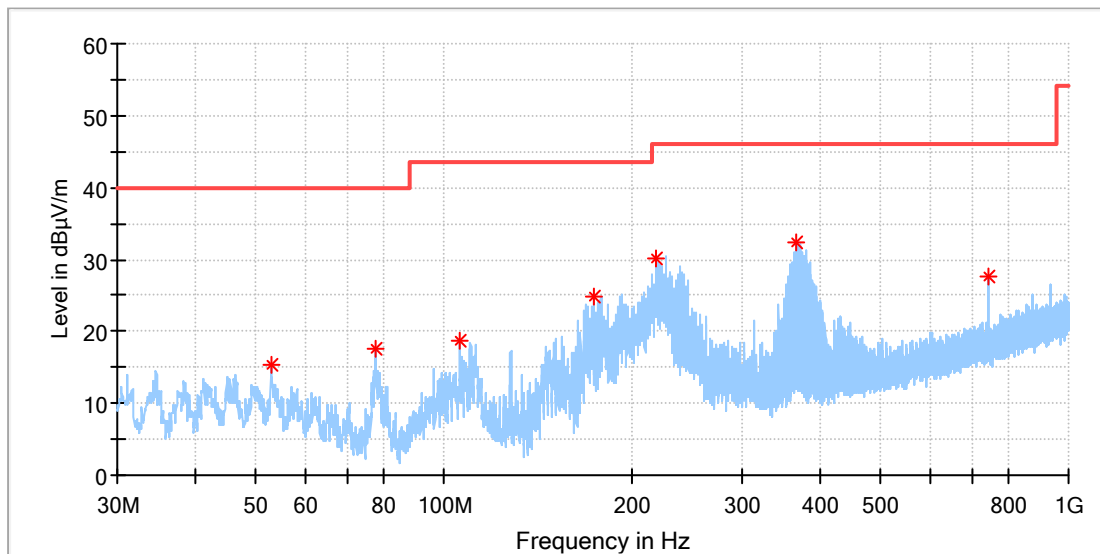
Appendix B.8: Test Results of Radiated Spurious Emissions

Note: 1. 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. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

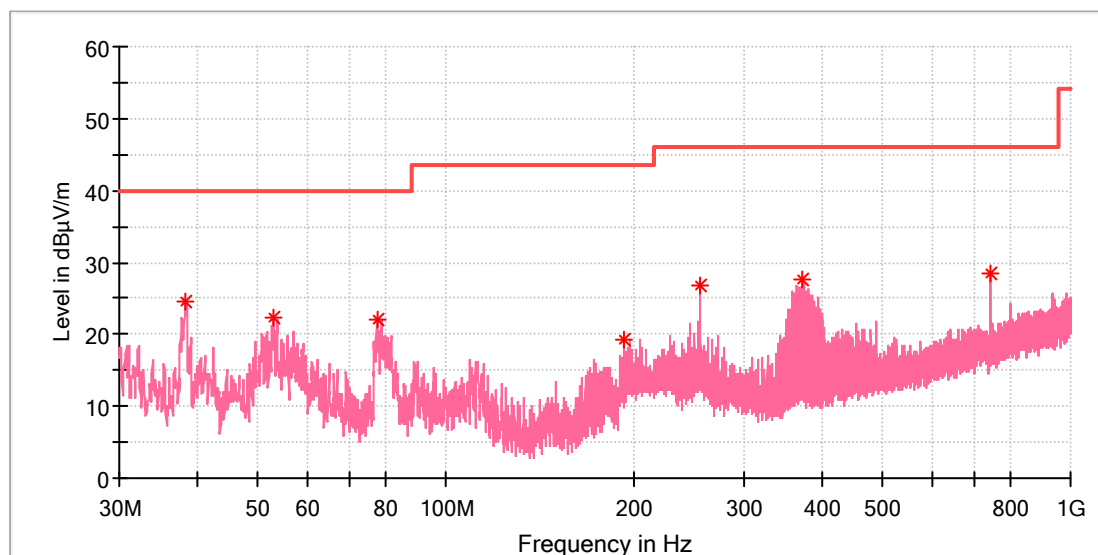


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.848889	15.30	40.00	24.70	100.0	H	270.0	-18.5
77.583889	17.62	40.00	22.38	100.0	H	270.0	-23.5
106.198889	18.81	43.50	24.69	100.0	H	133.0	-19.0
174.152778	24.79	43.50	18.71	100.0	H	150.0	-21.1
218.072222	30.22	46.00	15.78	100.0	H	359.0	-18.7
366.751667	32.26	46.00	13.74	100.0	H	158.0	-14.5
742.518889	27.54	46.00	18.46	100.0	H	318.0	-7.2

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

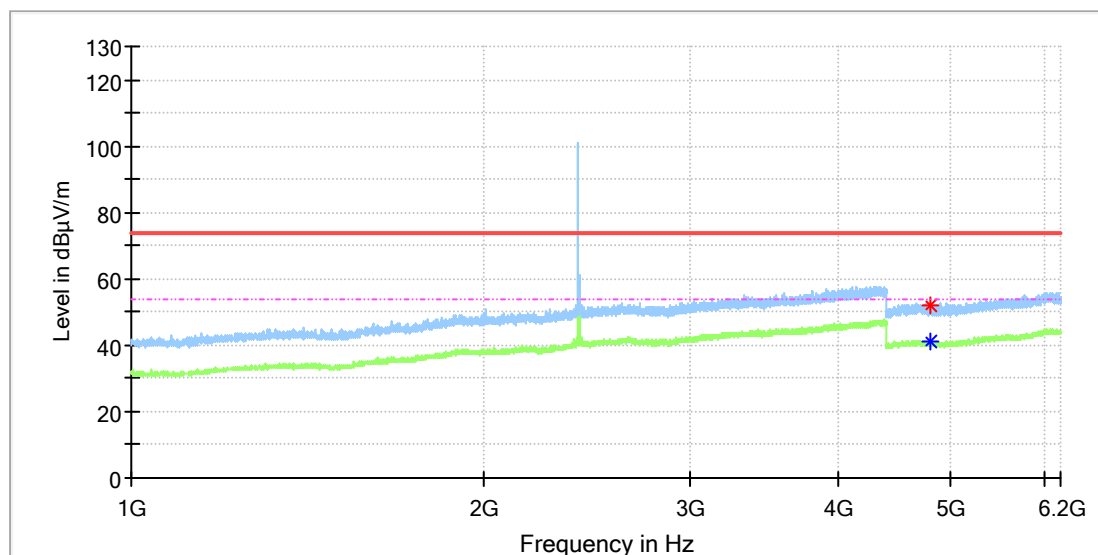
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.352778	24.54	40.00	15.46	100.0	V	0.0	-20.7
52.902778	22.43	40.00	17.57	100.0	V	359.0	-18.5
77.476111	22.10	40.00	17.90	100.0	V	282.0	-23.5
192.475000	19.21	43.50	24.29	100.0	V	197.0	-19.5
256.010000	26.85	46.00	19.15	100.0	V	359.0	-17.2
372.140556	27.67	46.00	18.33	100.0	V	100.0	-14.4
742.465000	28.47	46.00	17.53	100.0	V	349.0	-7.2

1GHz - 18GHz

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

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

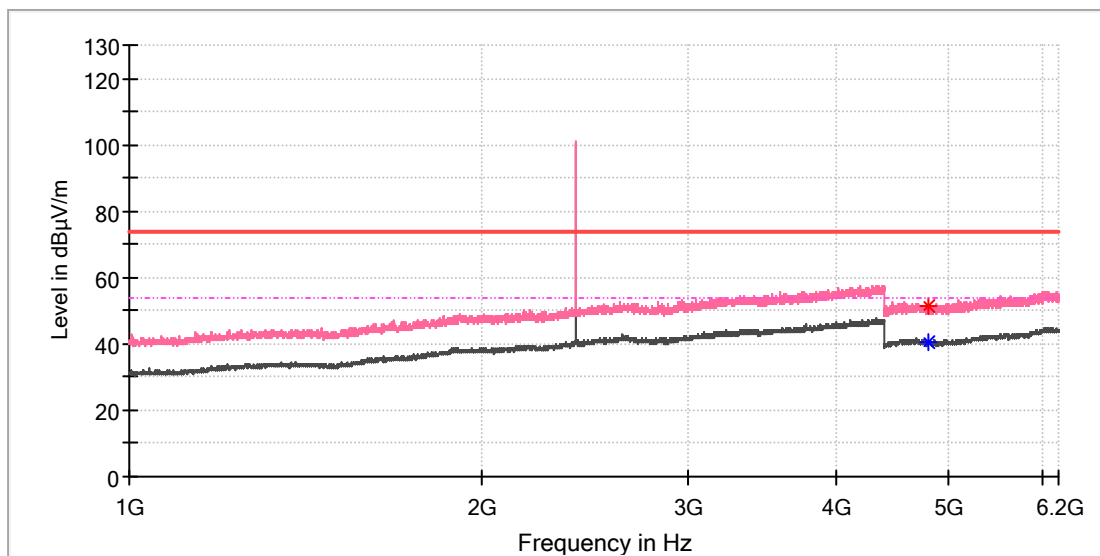


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4805.000000	---	40.82	54.00	13.18	150.0	H	118.0	13.3
4805.500000	51.80	---	74.00	22.20	150.0	H	143.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

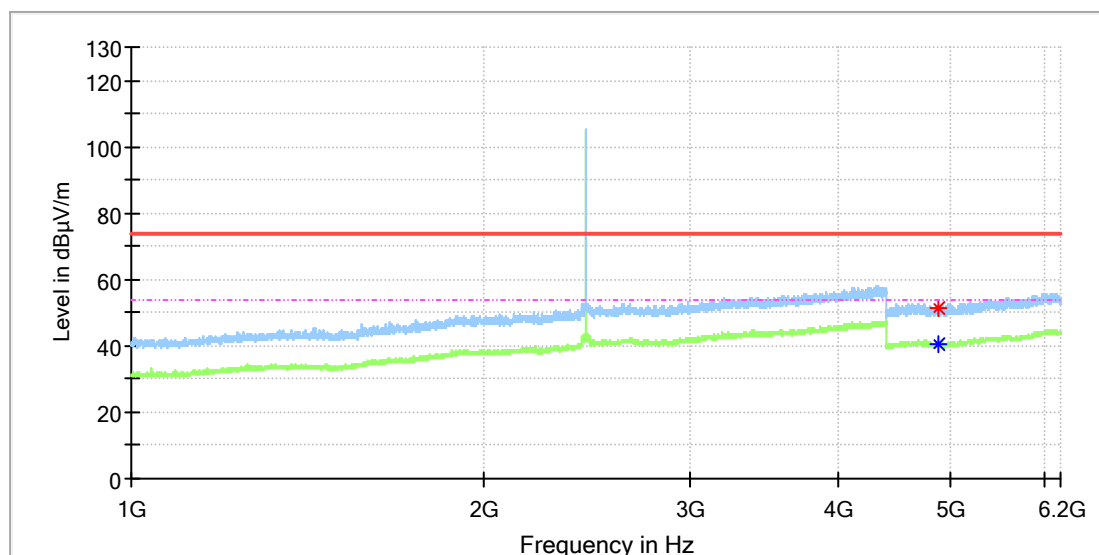


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4805.500000	---	40.58	54.00	13.42	150.0	V	115.0	13.3
4805.500000	51.25	---	74.00	22.75	150.0	V	115.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

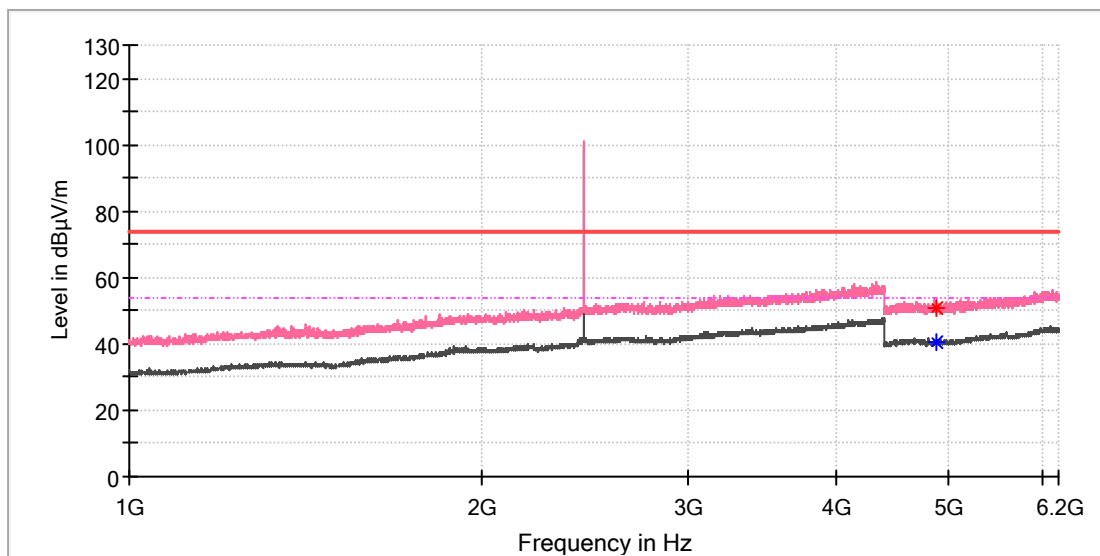


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.000000	51.64	---	74.00	22.36	150.0	H	0.0	13.3
4882.000000	---	40.52	54.00	13.48	150.0	H	60.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

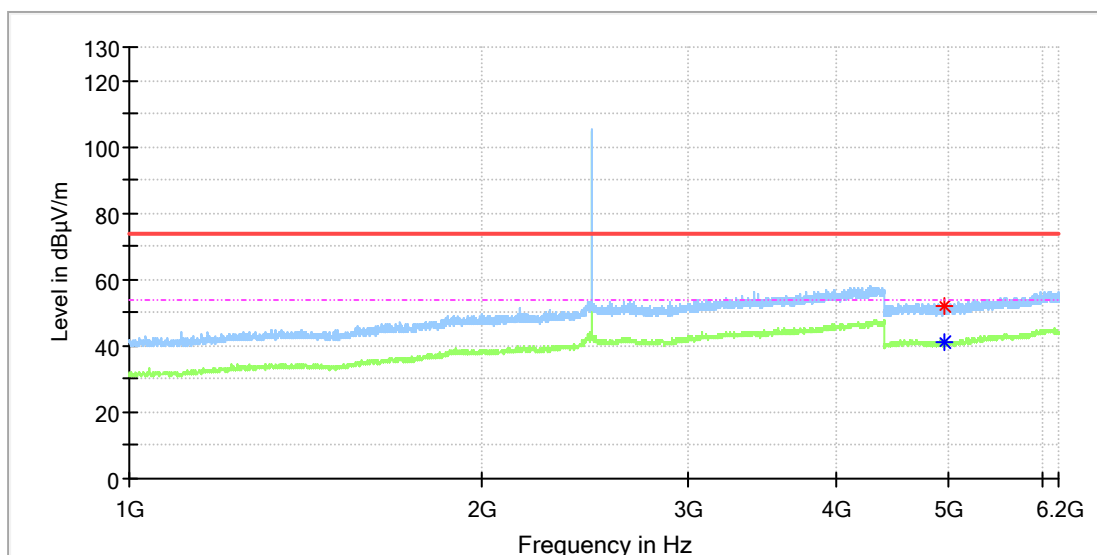


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.000000	---	40.52	54.00	13.48	150.0	V	318.0	13.3
4881.500000	50.87	---	74.00	23.13	150.0	V	165.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

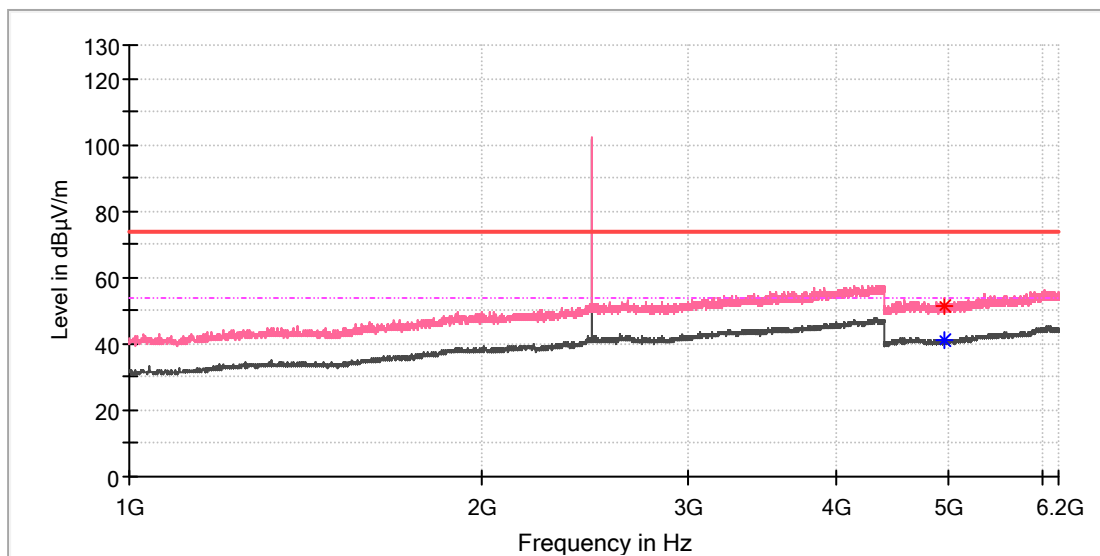


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.500000	52.12	---	74.00	21.88	150.0	H	120.0	13.3
4960.500000	---	41.34	54.00	12.66	150.0	H	120.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

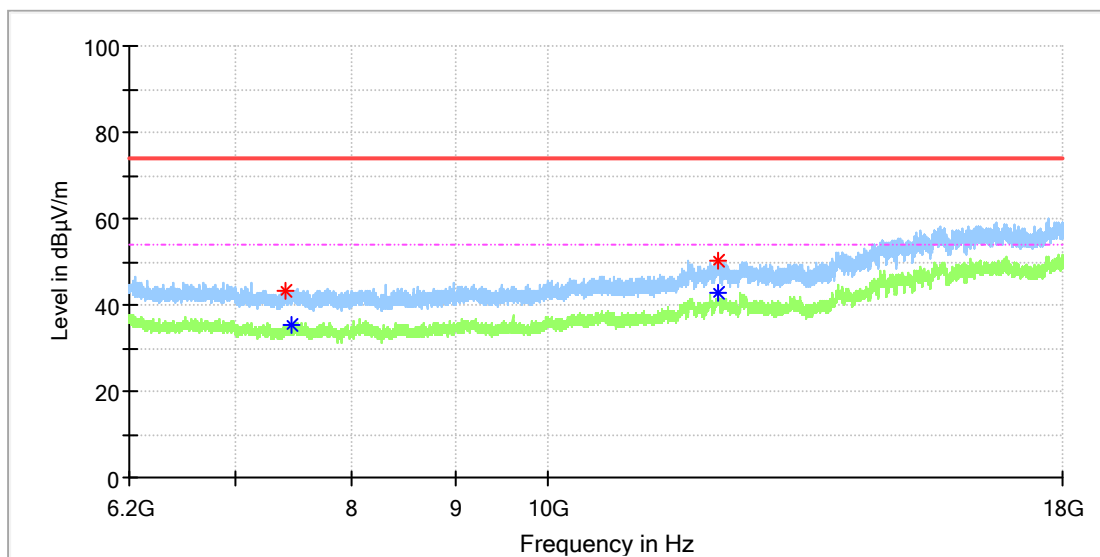


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	---	41.36	54.00	12.64	150.0	V	245.0	13.3
4959.000000	51.60	---	74.00	22.40	150.0	V	245.0	13.3

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

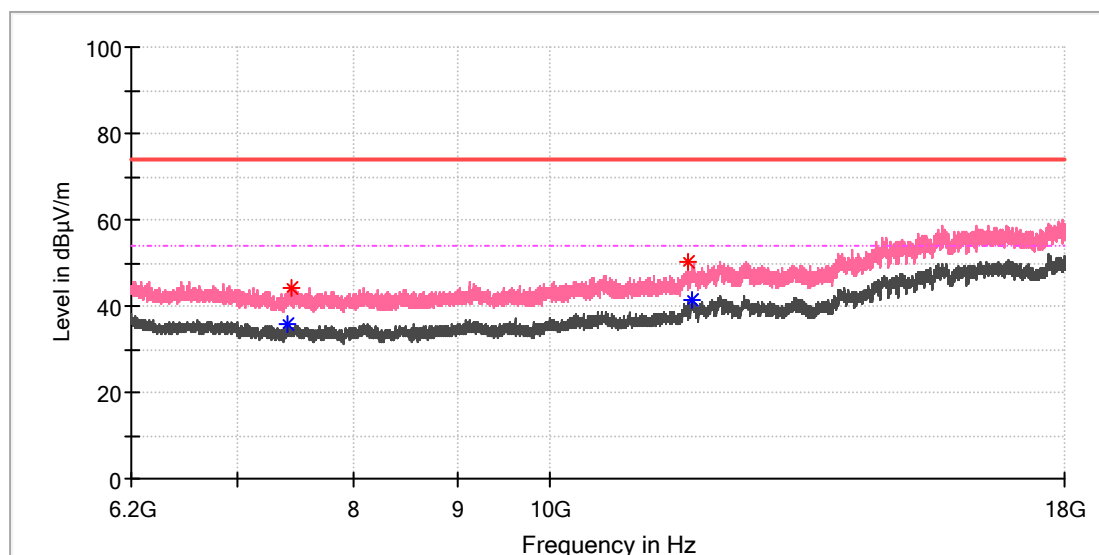


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7413.925000	43.09	---	74.00	30.91	150.0	H	154.0	8.3
7455.716667	---	35.41	54.00	18.59	150.0	H	77.0	8.5
12150.150000	50.28	---	74.00	23.72	150.0	H	99.0	16.7
12154.575000	---	42.87	54.00	11.13	150.0	H	21.0	16.5

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

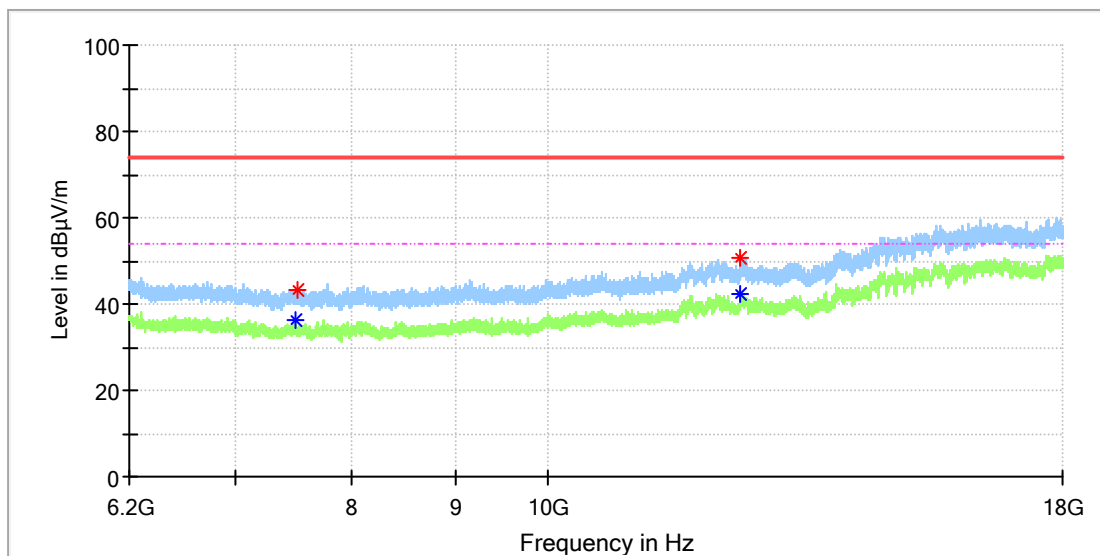


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7406.550000	---	35.65	54.00	18.35	150.0	V	232.0	8.3
7441.950000	44.17	---	74.00	29.83	150.0	V	342.0	8.4
11701.750000	50.01	---	74.00	23.99	150.0	V	342.0	15.1
11753.375000	---	41.54	54.00	12.46	150.0	V	45.0	15.5

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

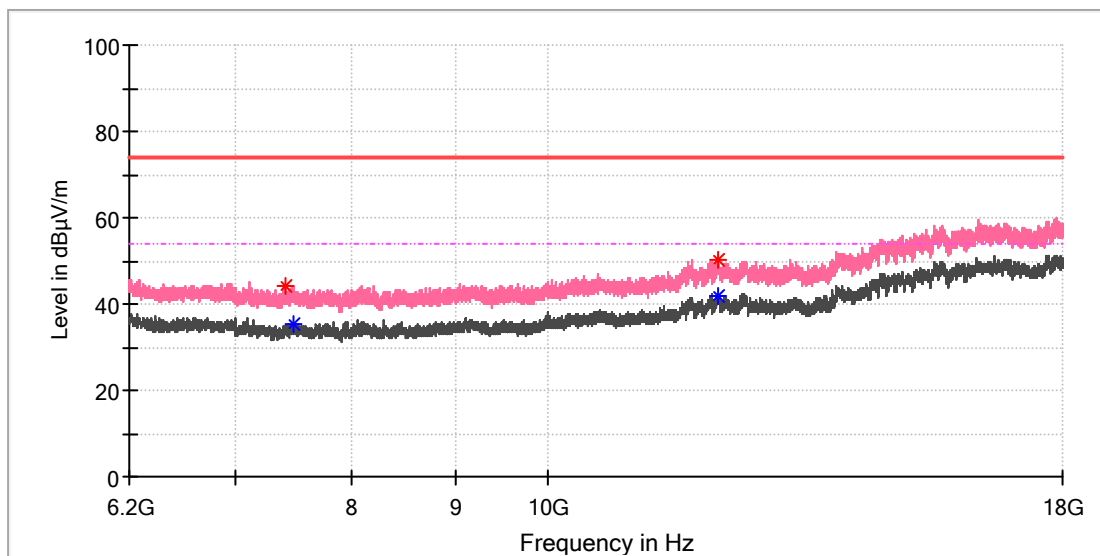


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7492.100000	---	36.10	54.00	17.90	150.0	H	115.0	8.7
7504.883333	43.12	---	74.00	30.88	150.0	H	71.0	8.7
12450.066667	---	42.18	54.00	11.82	150.0	H	27.0	16.3
12463.341667	50.76	---	74.00	23.24	150.0	H	0.0	16.2

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

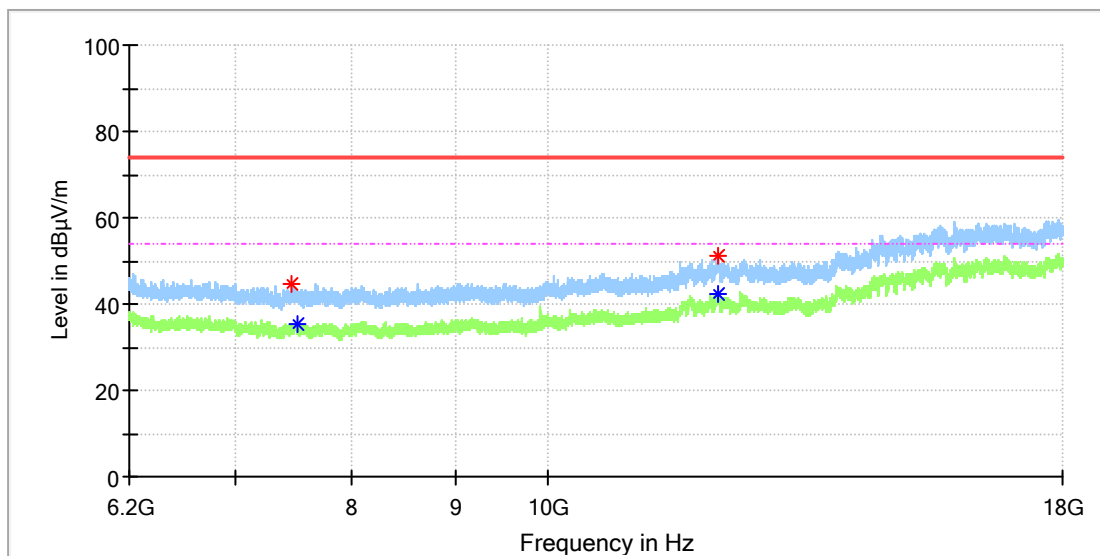


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7413.433333	44.39	---	74.00	29.61	150.0	V	0.0	8.3
7476.366667	---	35.40	54.00	18.60	150.0	V	339.0	8.6
12153.591667	---	42.07	54.00	11.93	150.0	V	350.0	16.5
12155.066667	50.46	---	74.00	23.54	150.0	V	83.0	16.5

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

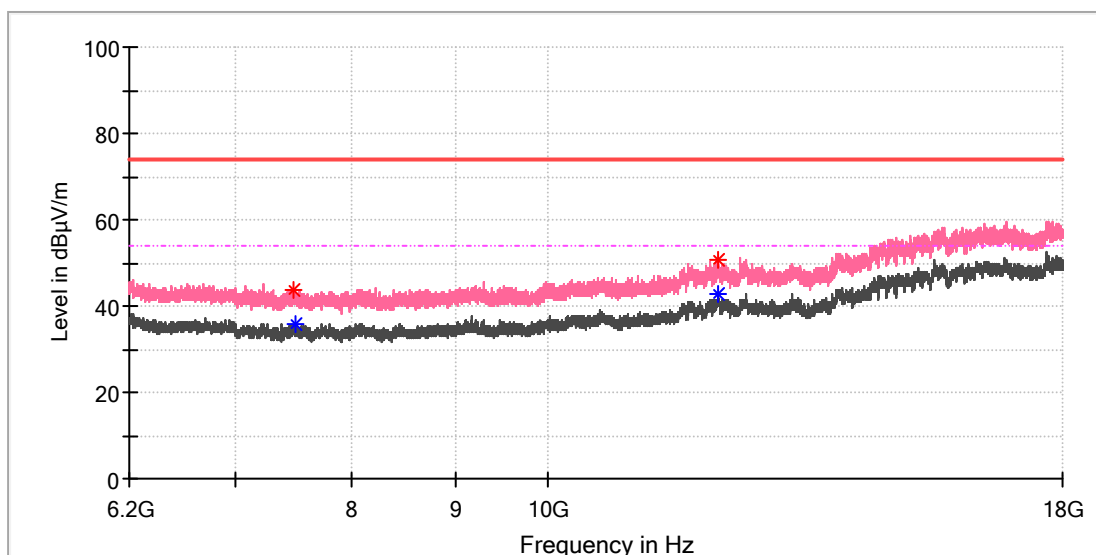


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7469.975000	44.68	---	74.00	29.32	150.0	H	114.0	8.6
7505.866667	---	35.53	54.00	18.47	150.0	H	156.0	8.7
12142.775000	51.26	---	74.00	22.74	150.0	H	103.0	16.5
12143.758333	---	42.16	54.00	11.84	150.0	H	223.0	16.6

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



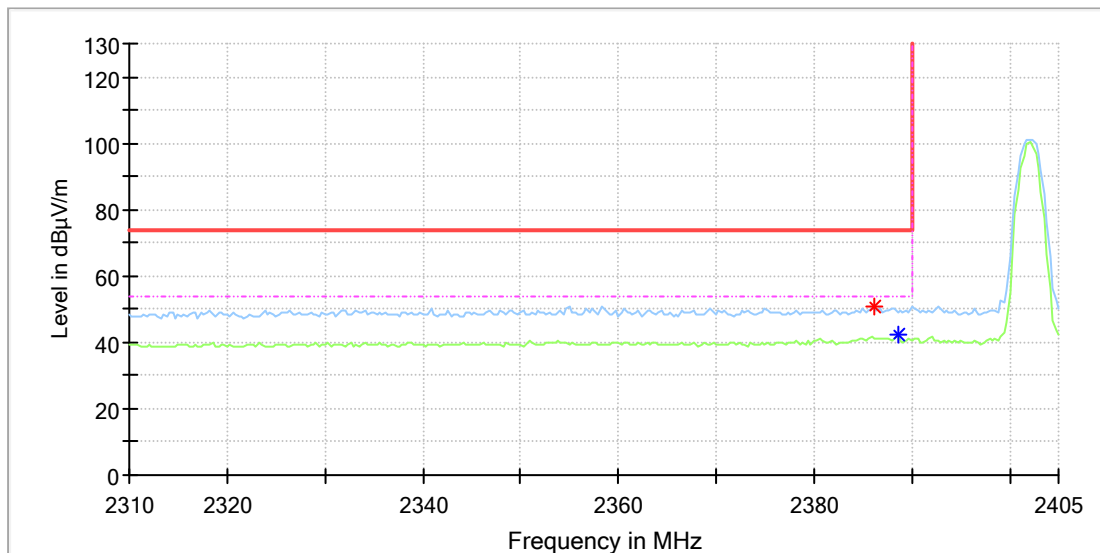
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7483.741667	43.62	---	74.00	30.38	150.0	V	359.0	8.7
7504.391667	---	35.80	54.00	18.20	150.0	V	53.0	8.7
12132.450000	---	42.89	54.00	11.11	150.0	V	252.0	16.3
12133.433333	50.65	---	74.00	23.35	150.0	V	252.0	16.3

Appendix B.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

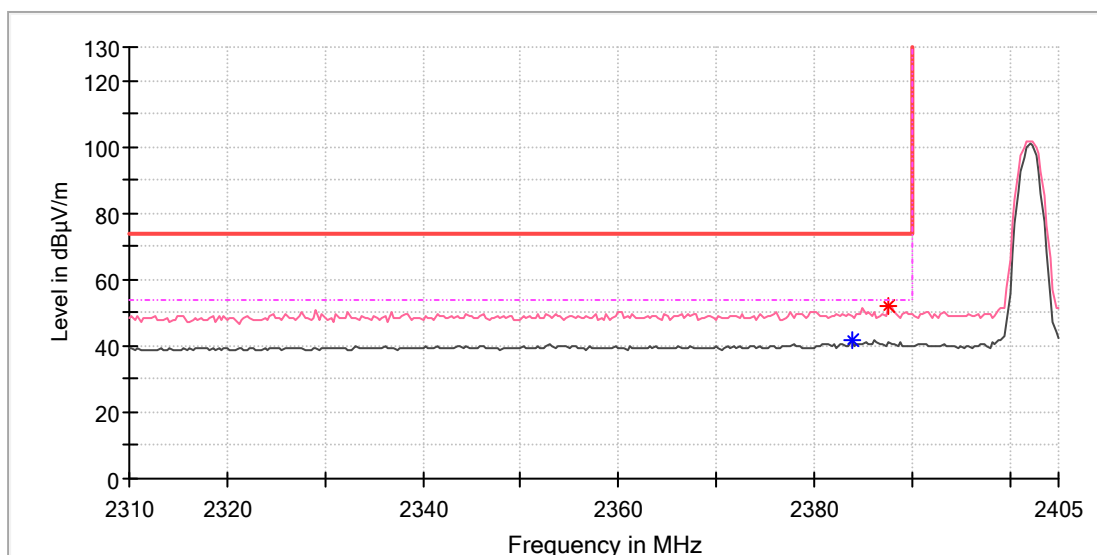


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.176471	51.01	---	74.00	22.99	150.0	H	63.0	8.5
2388.529412	---	42.55	54.00	11.45	150.0	H	63.0	8.5

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

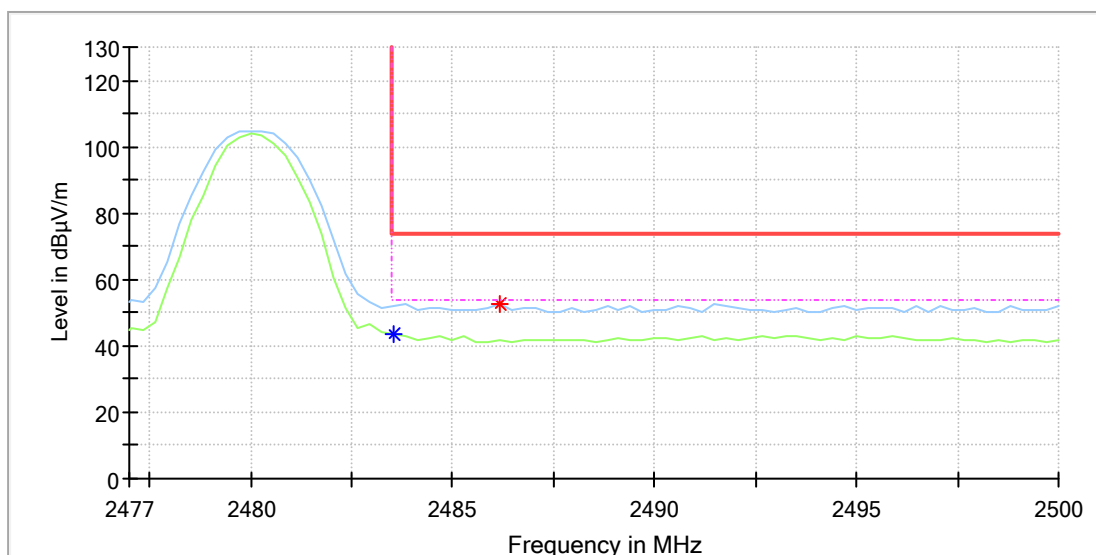


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.823529	---	41.75	54.00	12.25	150.0	V	239.0	8.5
2387.647059	51.70	---	74.00	22.30	150.0	V	245.0	8.5

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

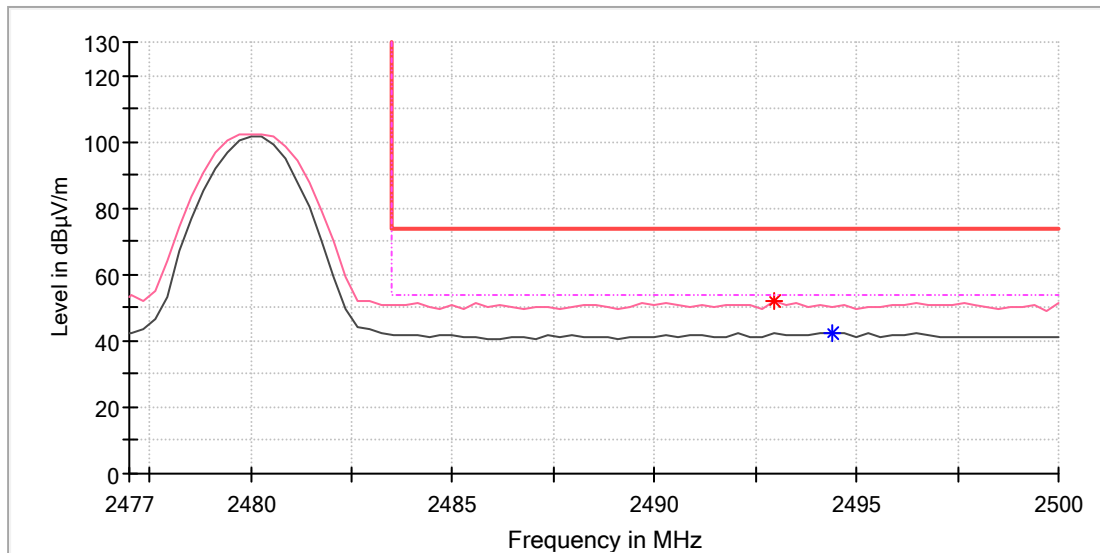


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.26	54.00	10.74	150.0	H	79.0	9.0
2486.176471	52.75	---	74.00	21.25	150.0	H	91.0	9.0

EUT Information

EUT Name:	21" BLUETOOTH SOUNDBAR AUDIO SYSTEM
Model:	RALLYBAR 2
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004155379-008
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:55%
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)
2492.941177	51.70	---	74.00	22.30	150.0	V	298.0	9.0
2494.411765	---	42.57	54.00	11.43	150.0	V	290.0	9.0