

Appendix B

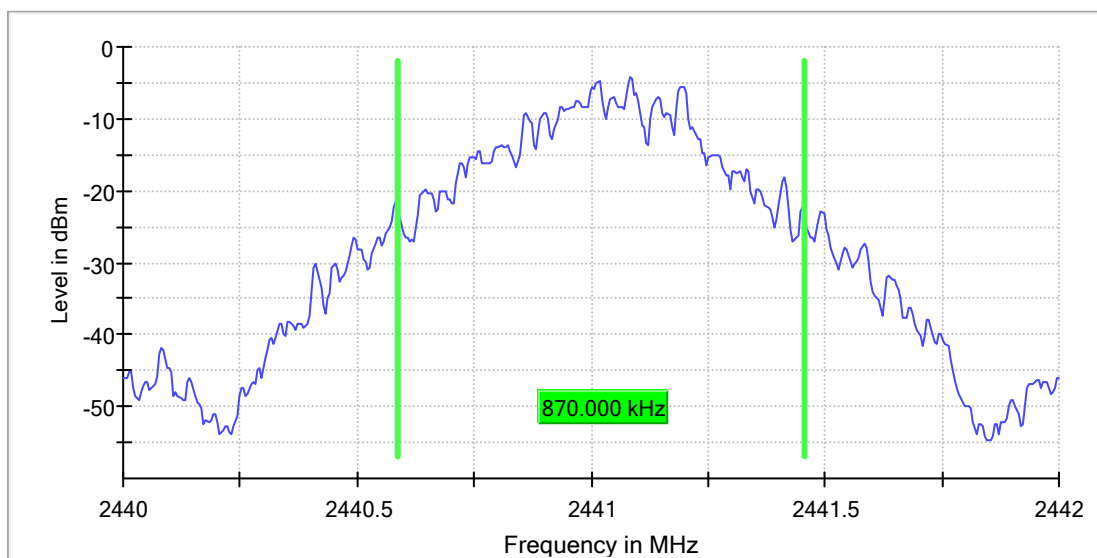
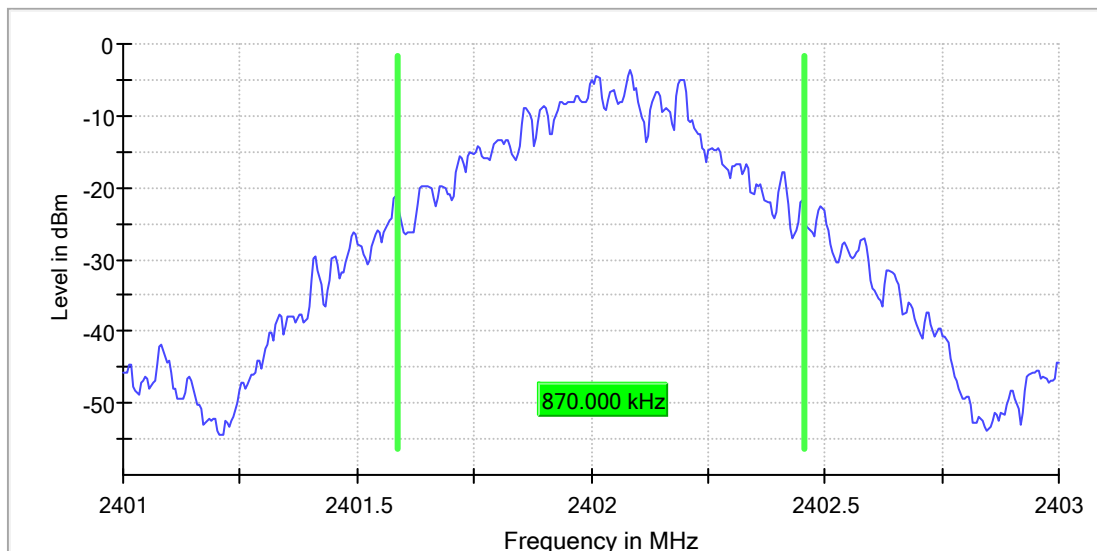
Test Results of Conducted Testing

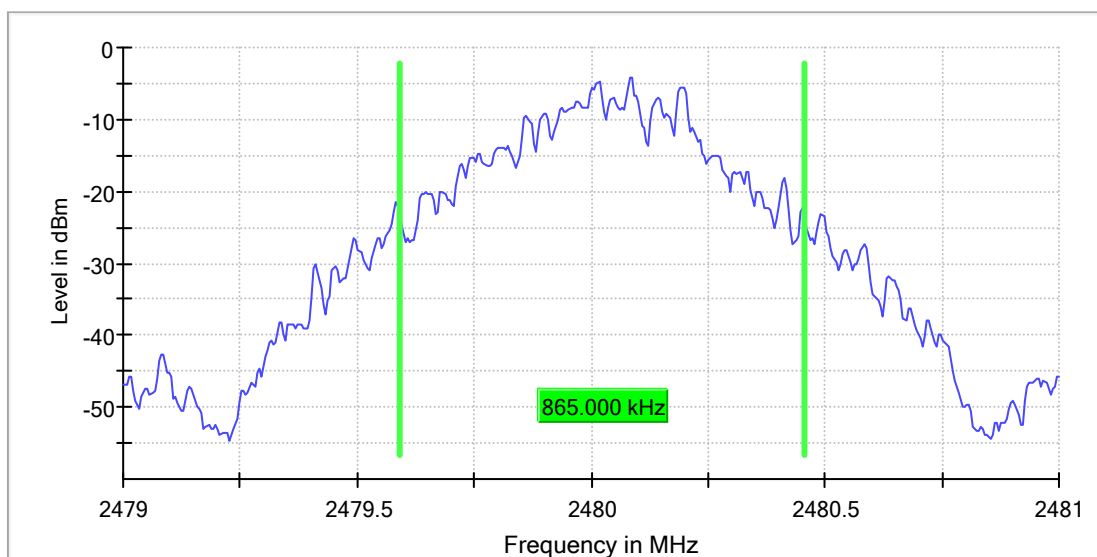
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Appendix B.1: Test Plots of 99% Bandwidth

BDR Mode, DH1

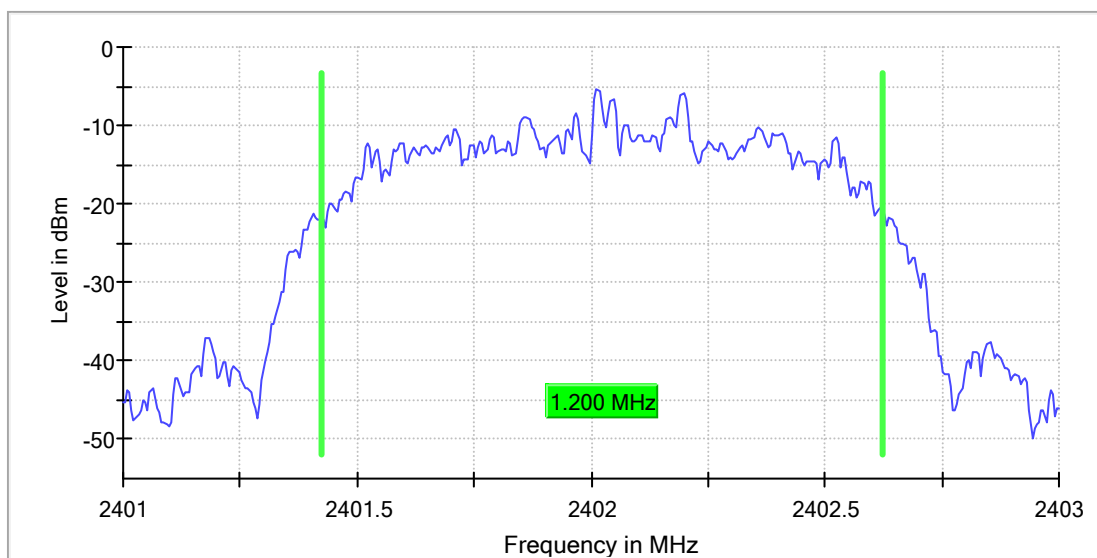
RBW=30KHz, VBW=100KHz

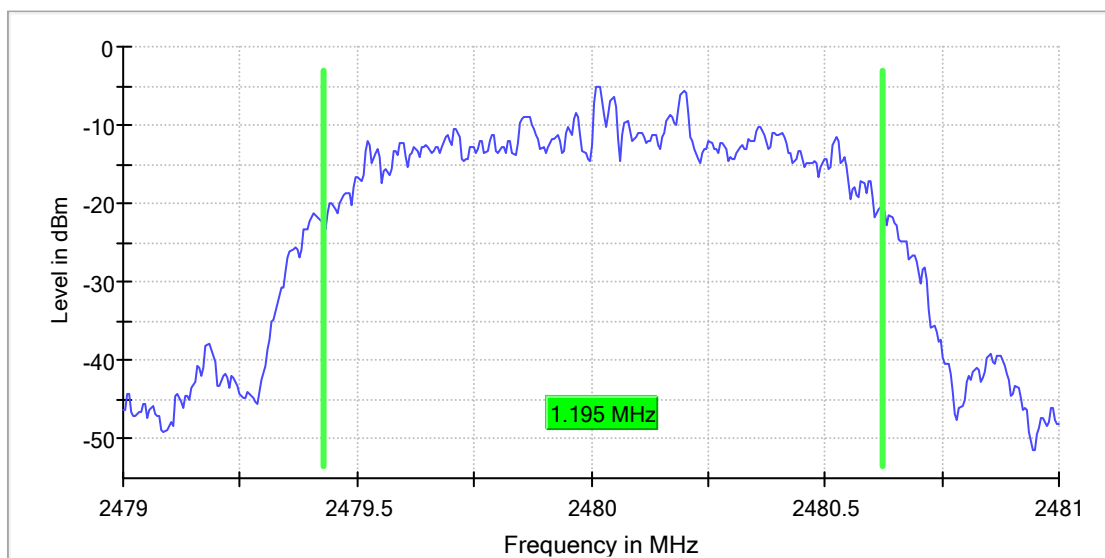
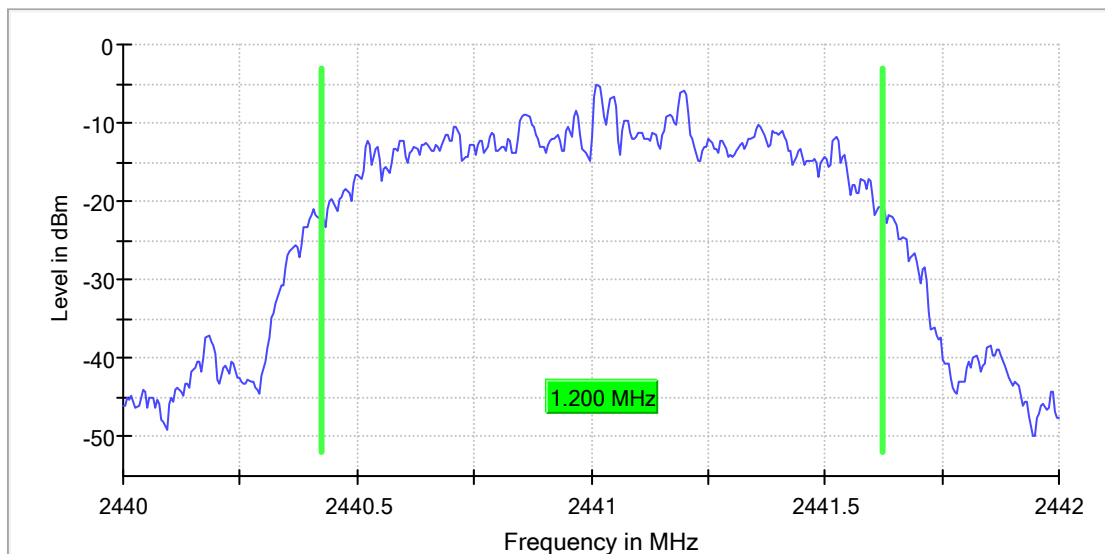




EDR Mode, 3DH1

RBW=30KHz VBW=100KHz

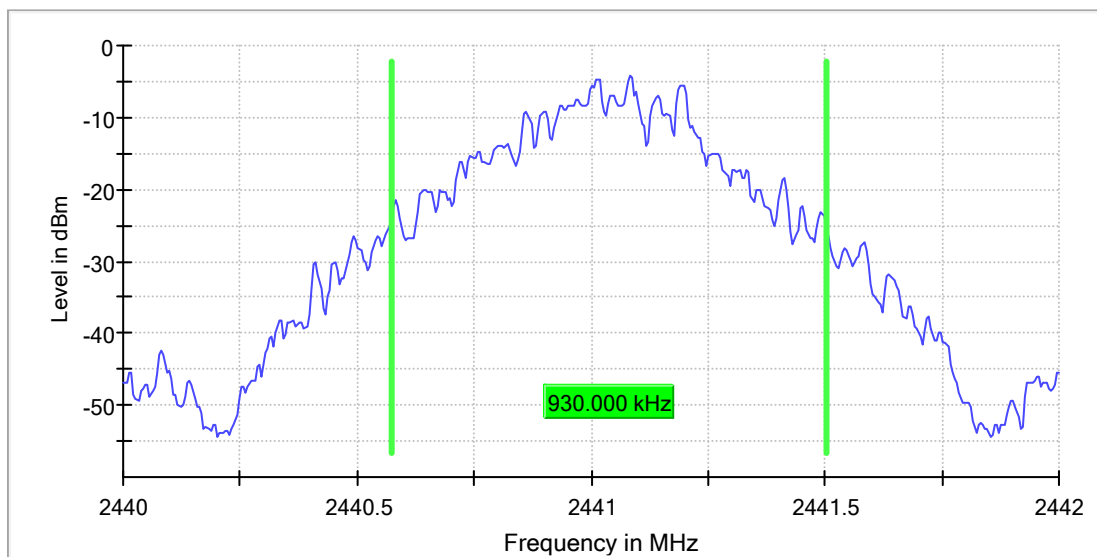
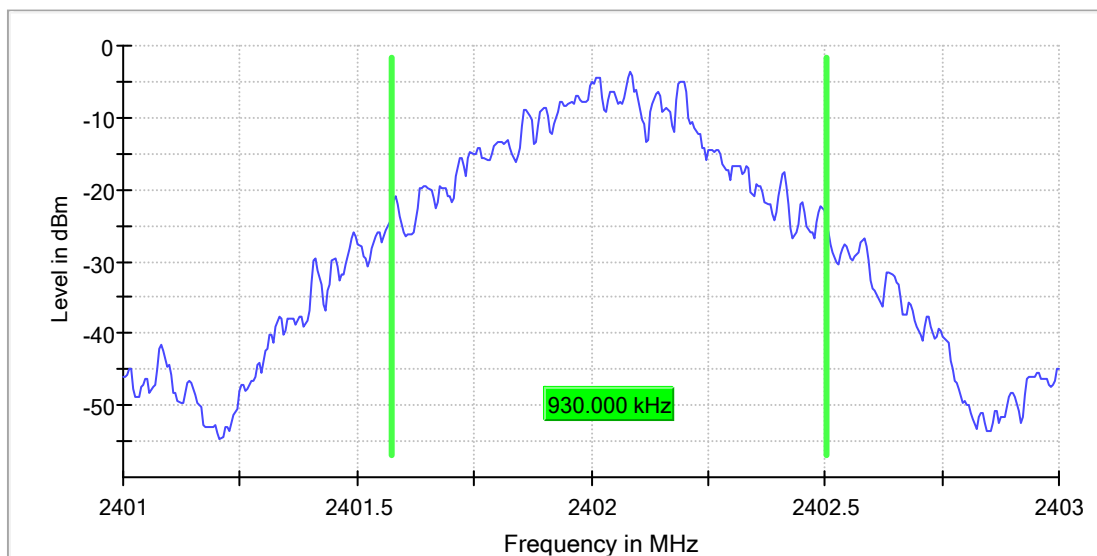


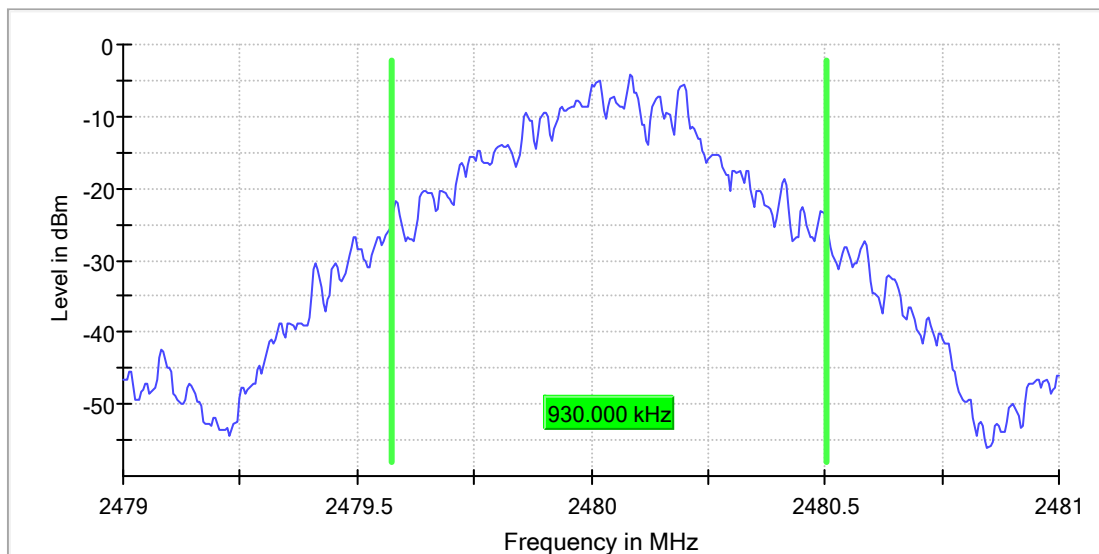


Appendix B.2: Test Plots of 20dB Bandwidth

BDR Mode, DH1

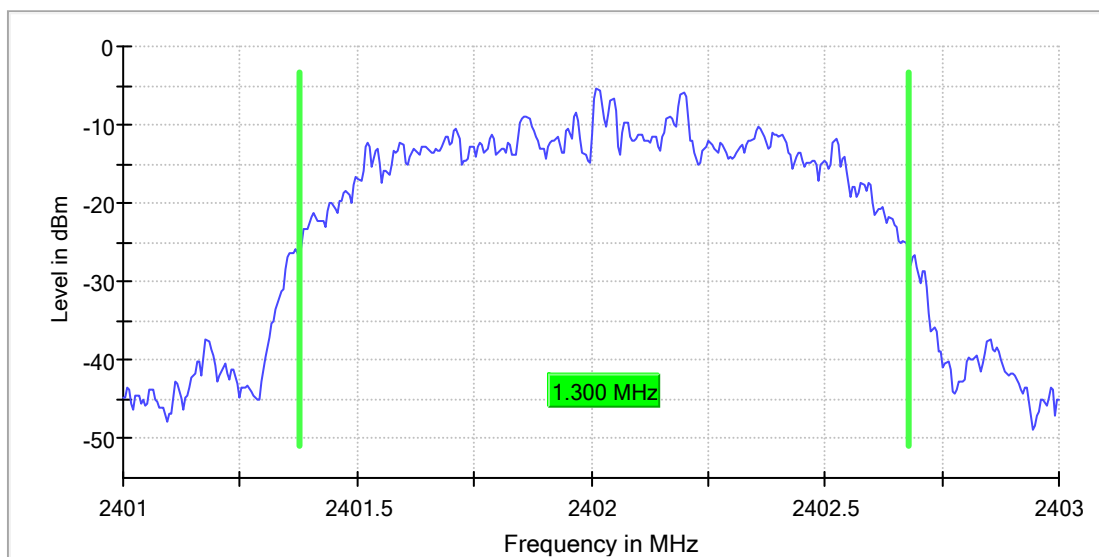
RBW=30KHz VBW=100KHz

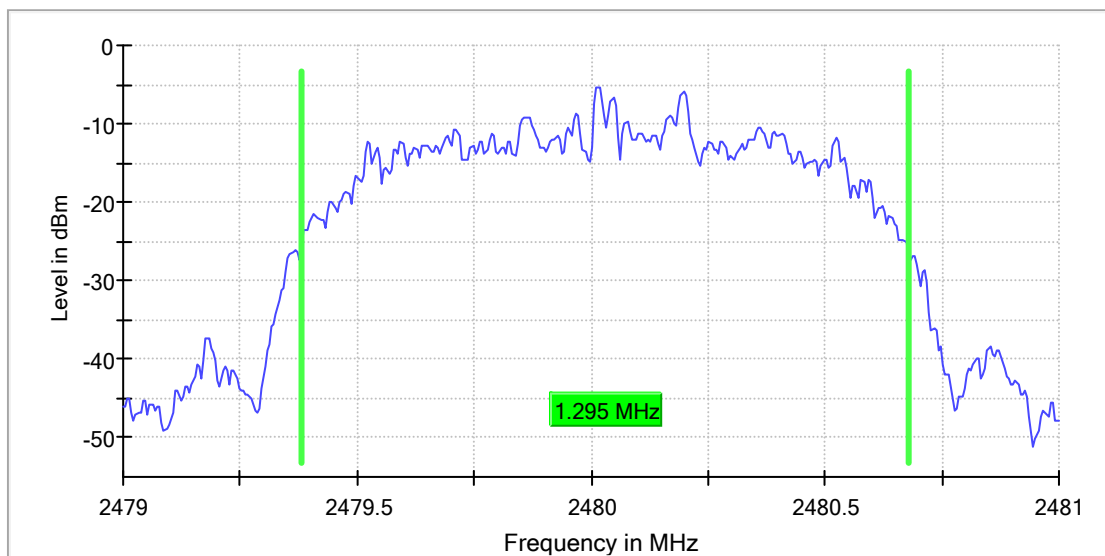
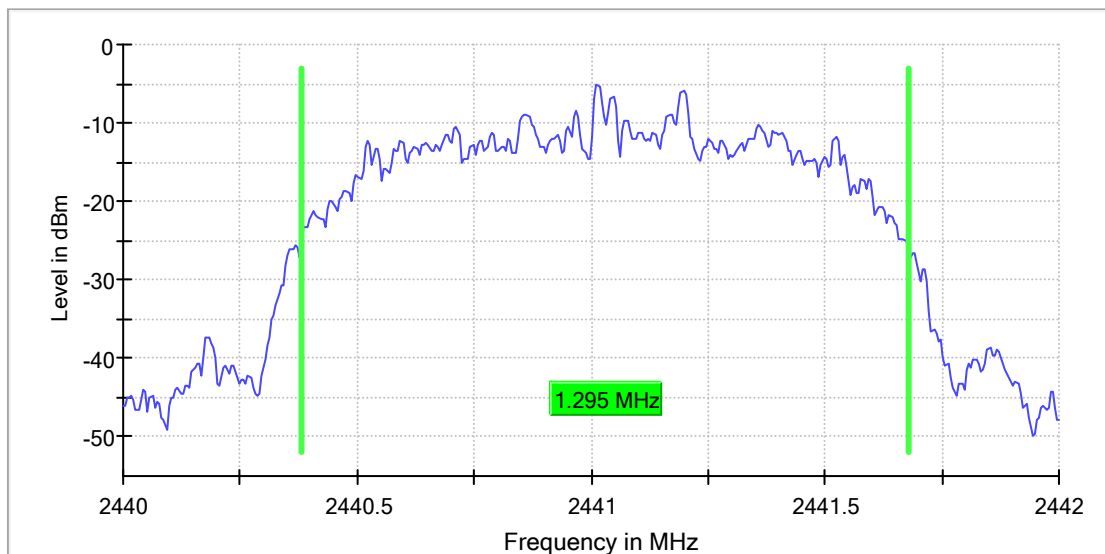




EDR Mode, 3DH1

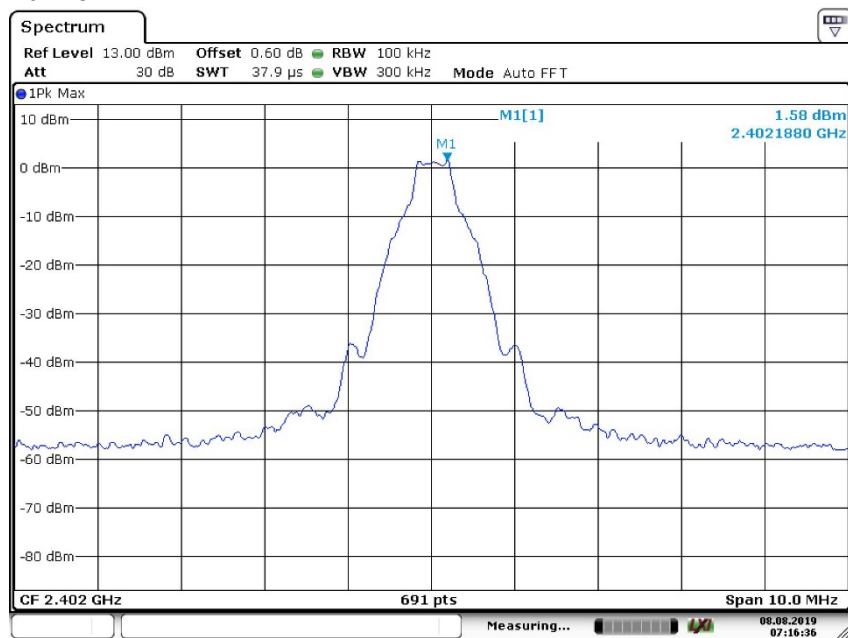
RBW=30KHz VBW=100KHz



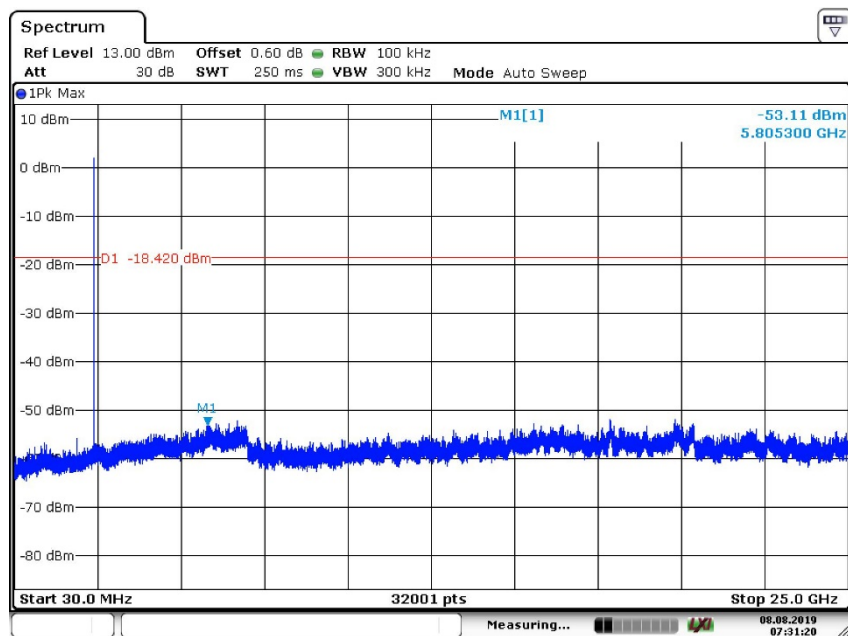


Appendix B.3: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BDR Mode, Low Channel

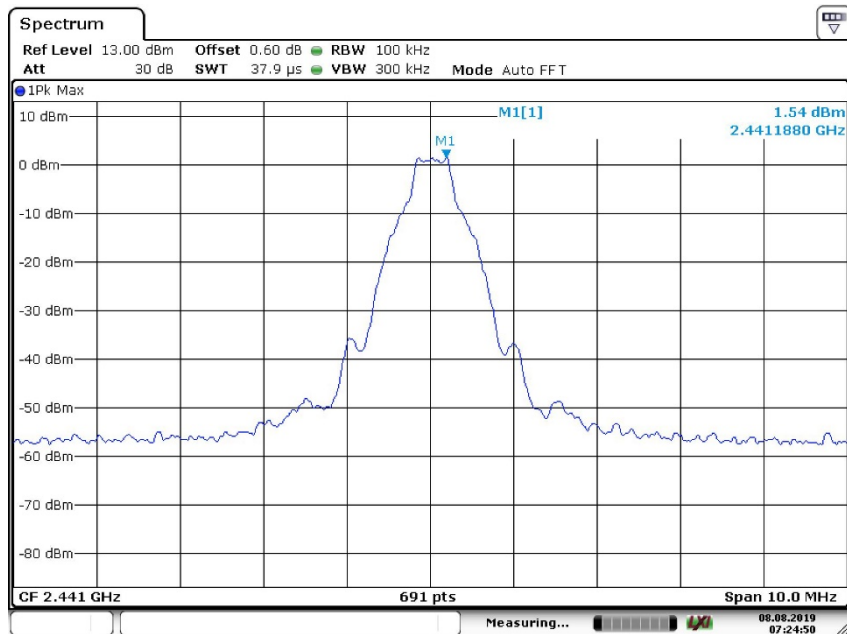


Date: 8.AUG.2019 07:16:37

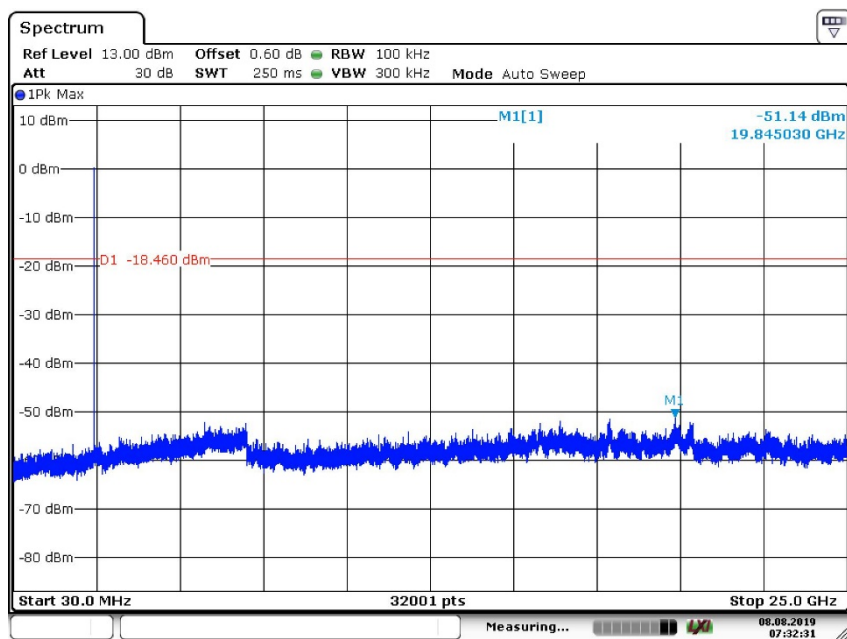


Date: 8.AUG.2019 07:31:20

BDR Mode, Middle Channel

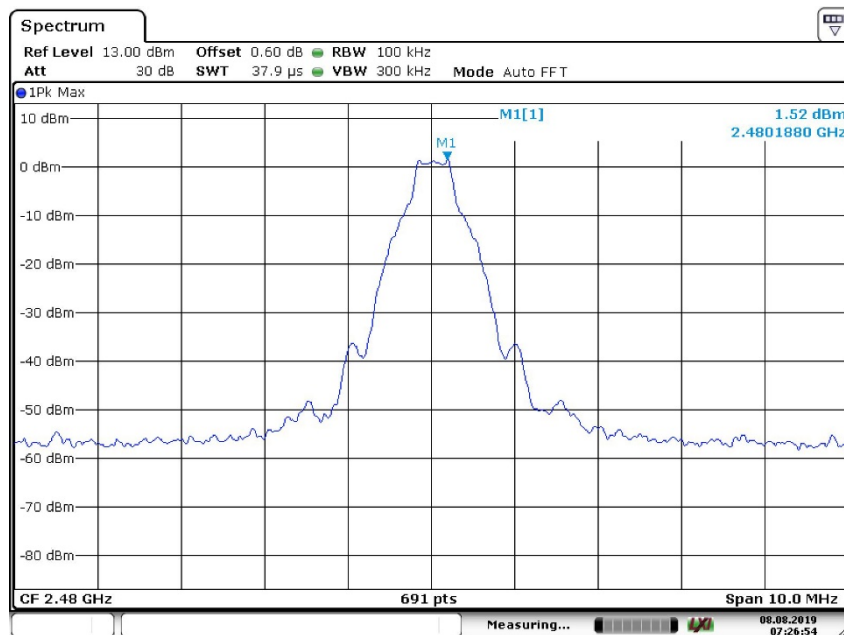


Date: 8.AUG.2019 07:24:51

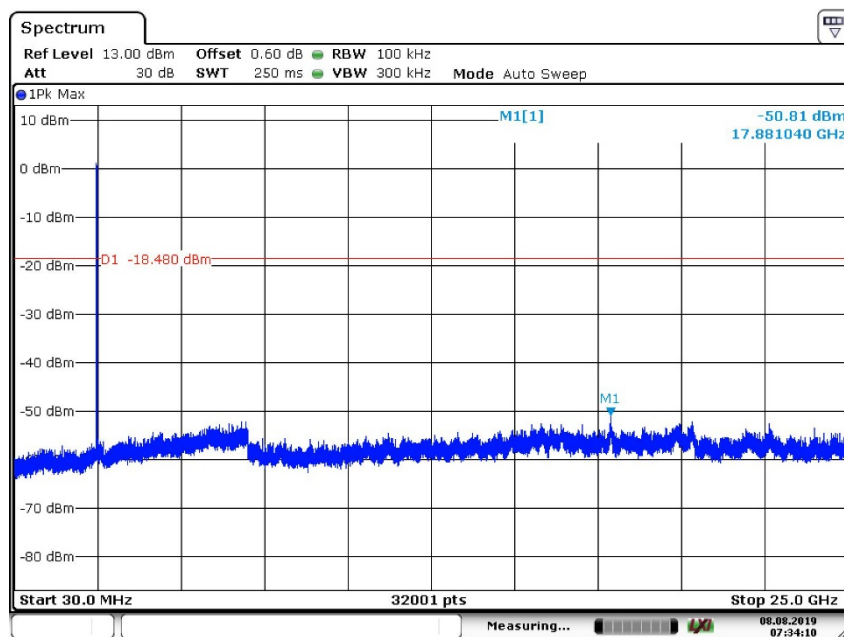


Date: 8.AUG.2019 07:32:31

BDR Mode, High Channel

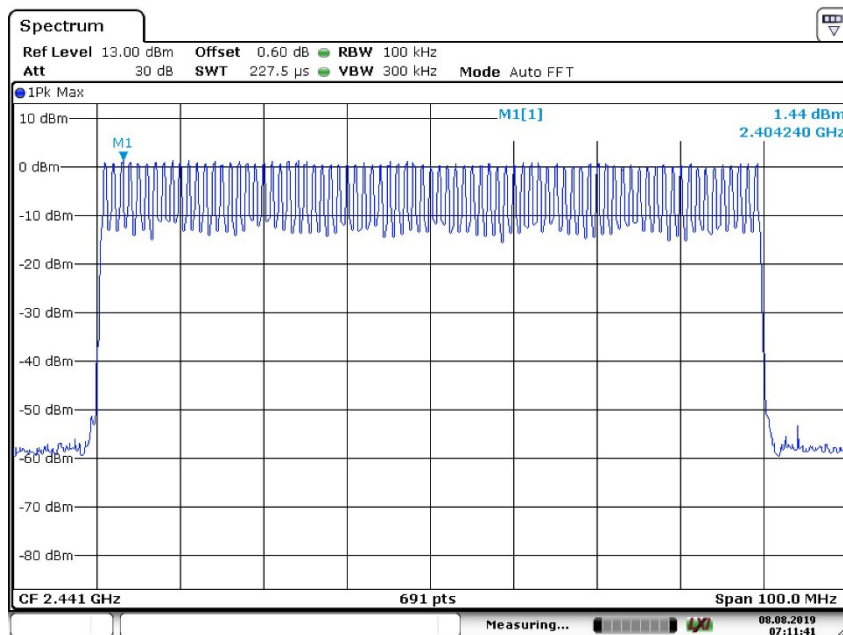


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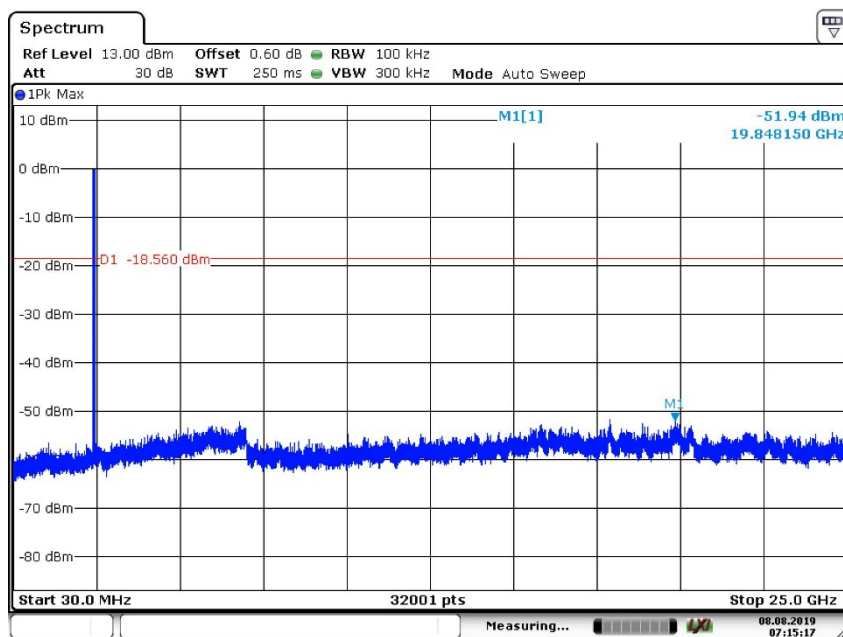


Date: 8.AUG.2019 07:34:10

BDR, Hopping

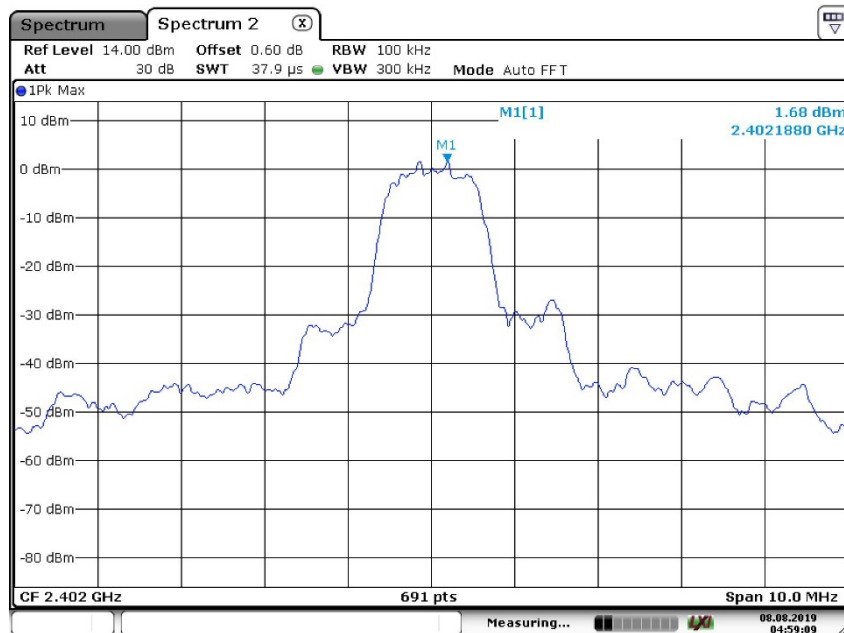


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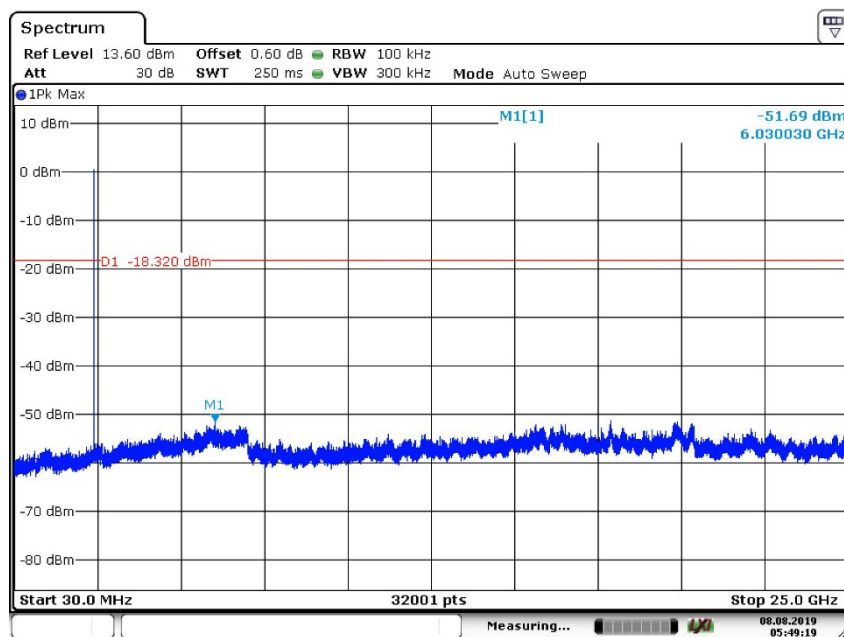


Date: 8.AUG.2019 07:15:18

EDR Mode, Low Channel

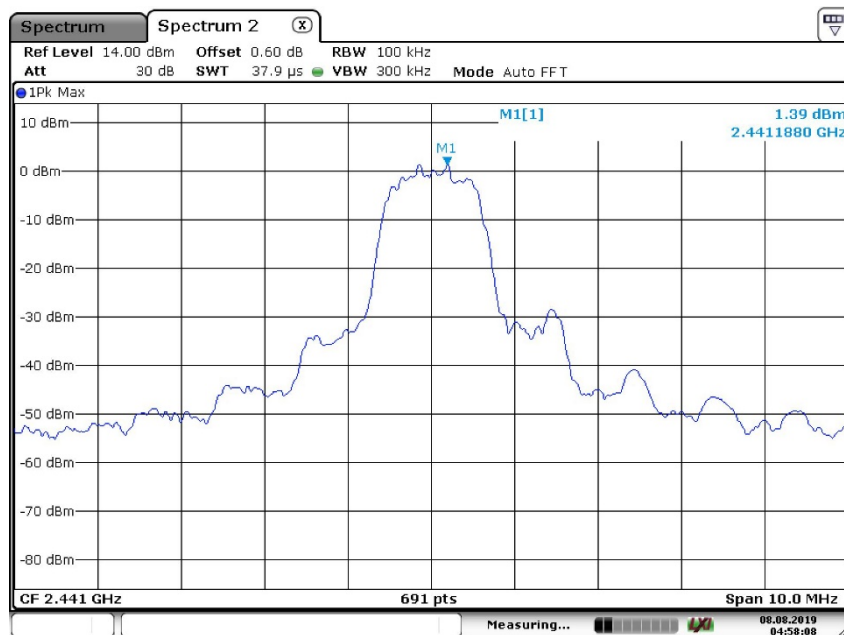


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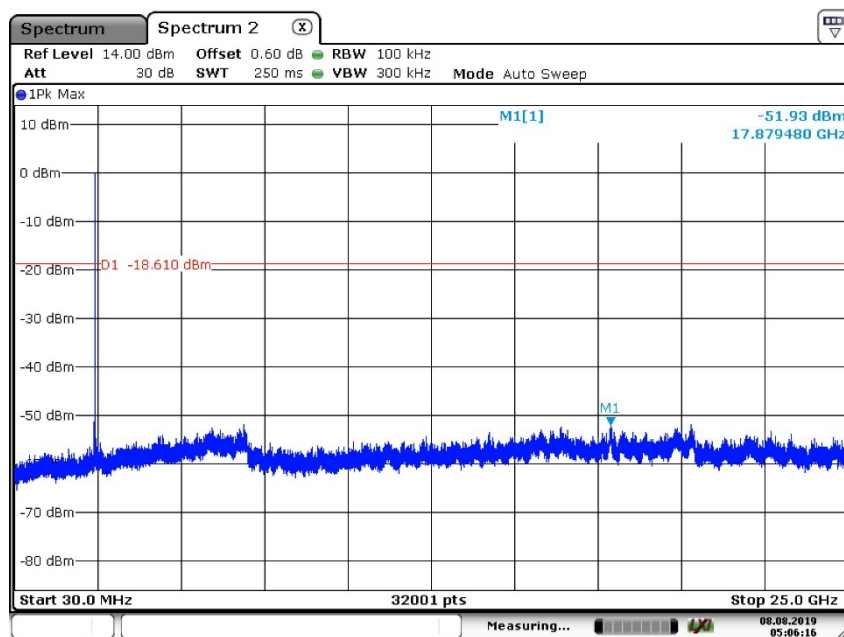


Date: 8.AUG.2019 05:49:19

EDR Mode, Middle Channel

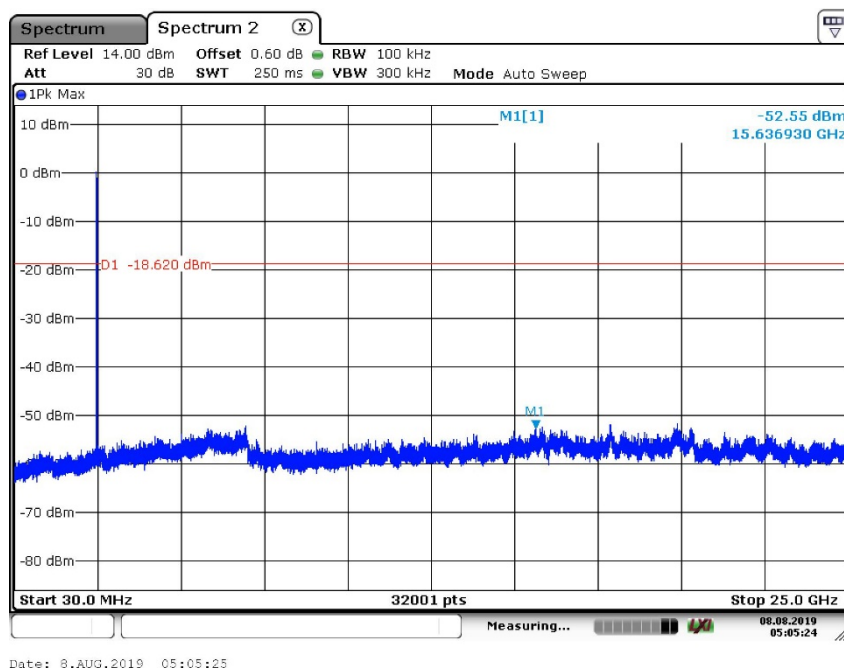
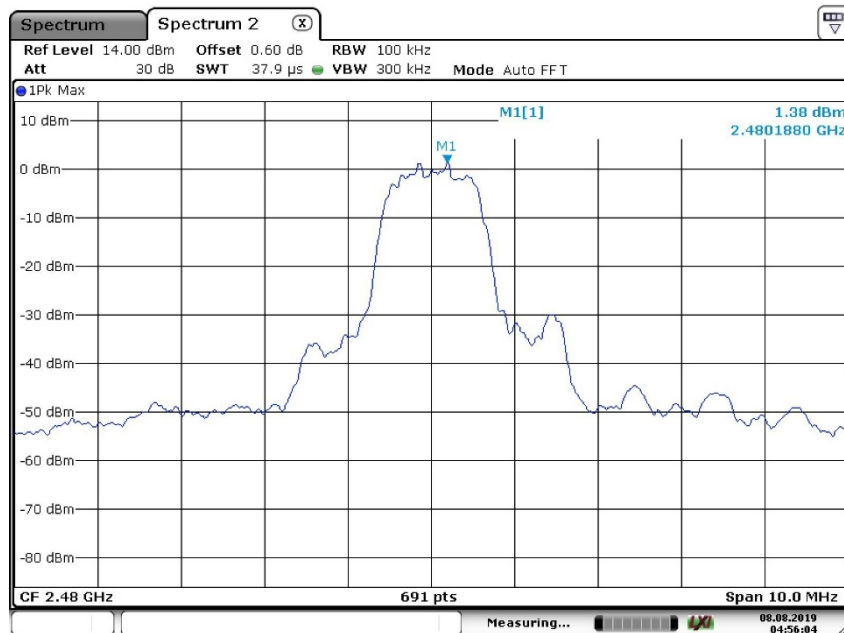


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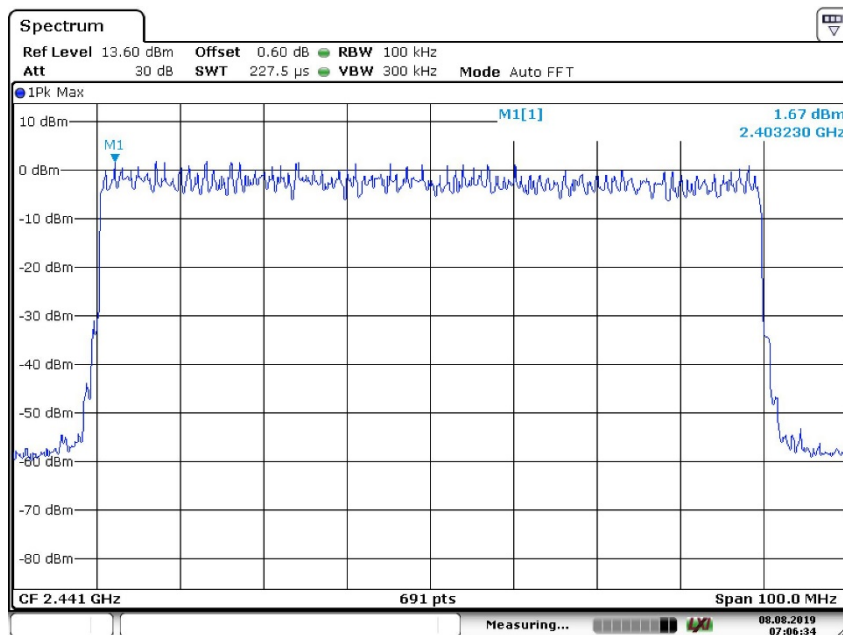


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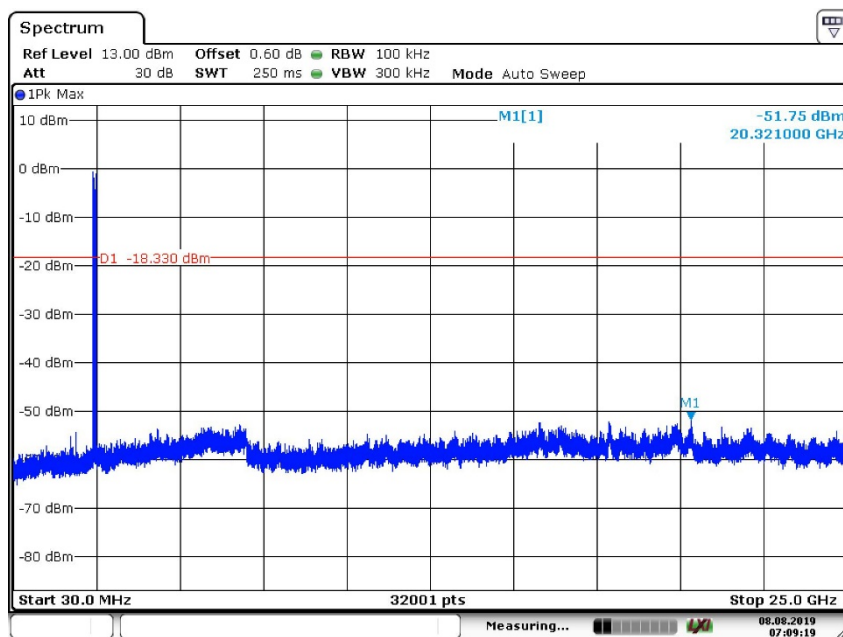
EDR Mode, High Channel



EDR, Hopping

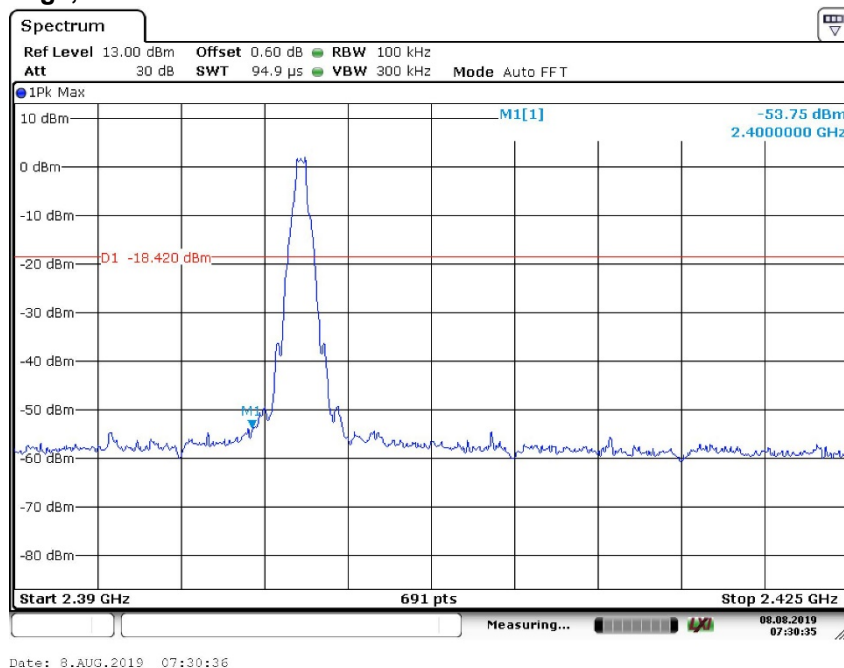


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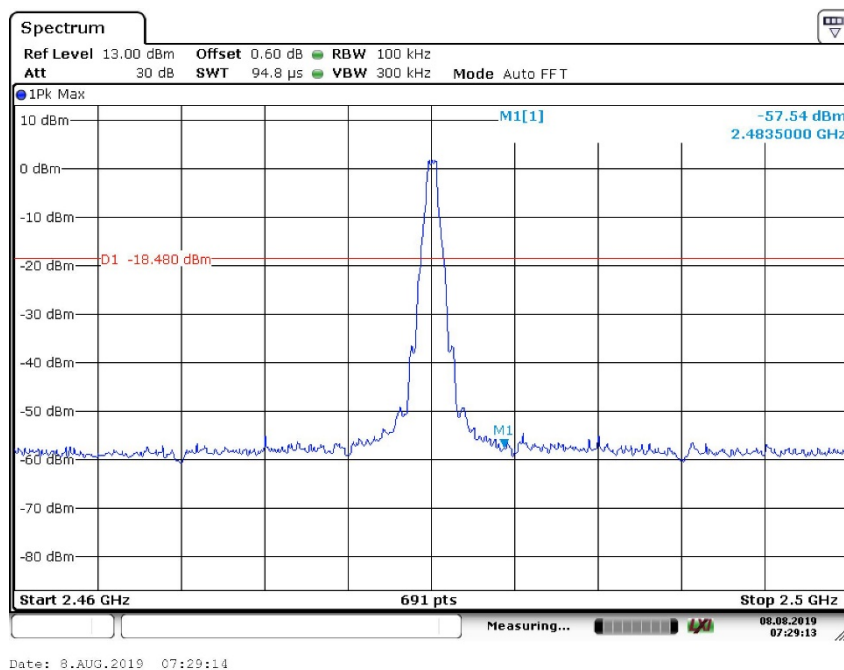


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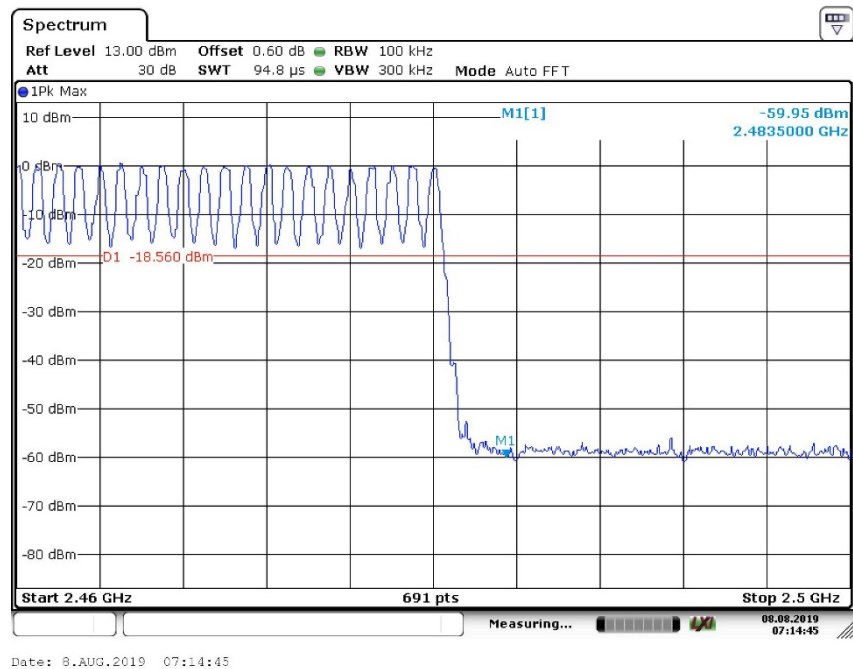
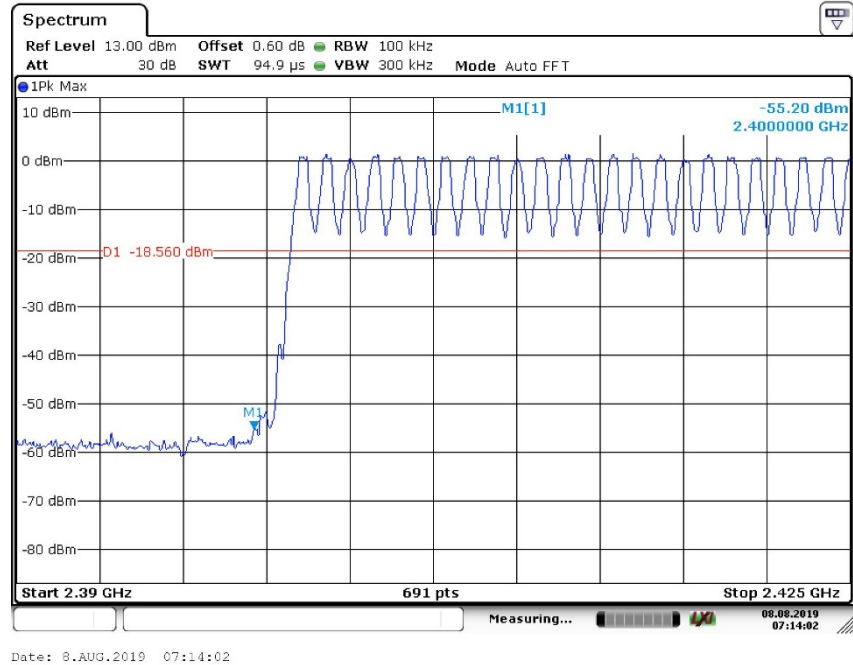
BDR Mode, Band Edge, Low Channel



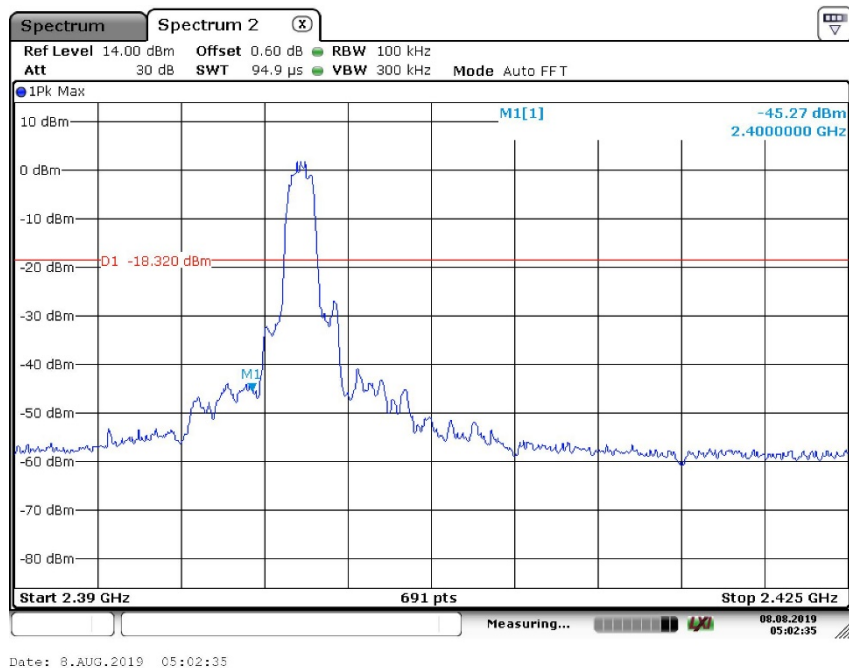
BDR Mode, Band Edge, High Channel



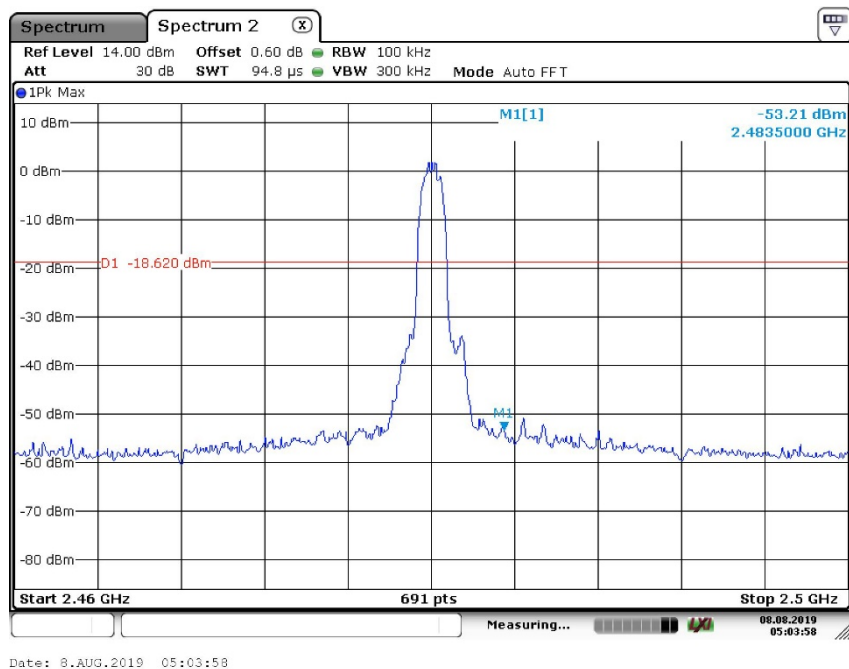
BDR Mode, Hopping Band Edge



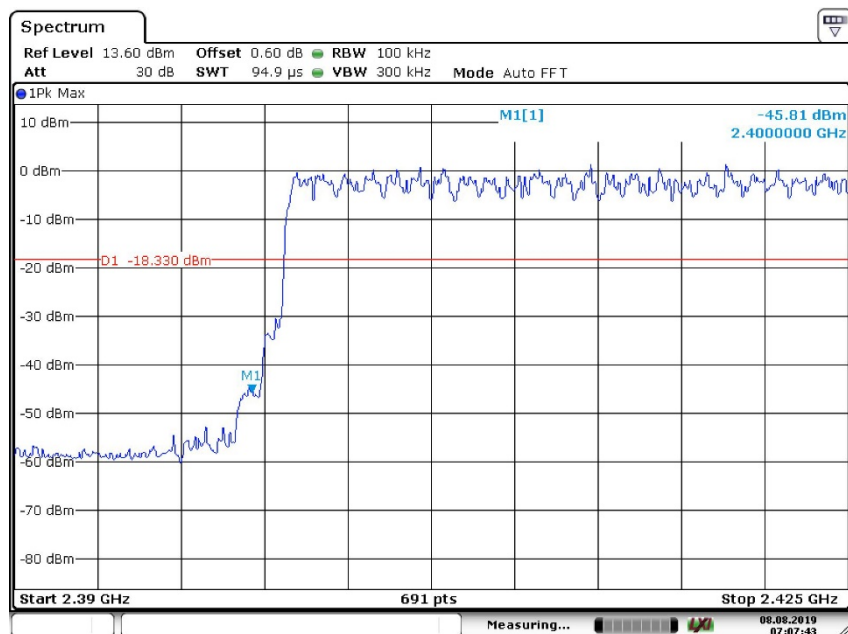
EDR Mode, Band Edge, Low Channel



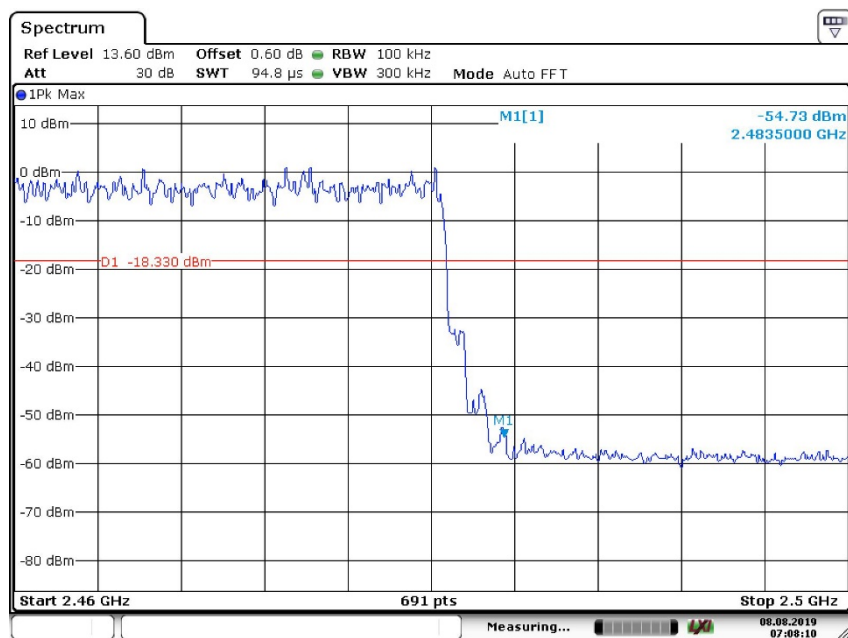
EDR Mode, Band Edge, High Channel



EDR Mode, Hopping Band Edge



Date: 8.AUG.2019 07:07:43

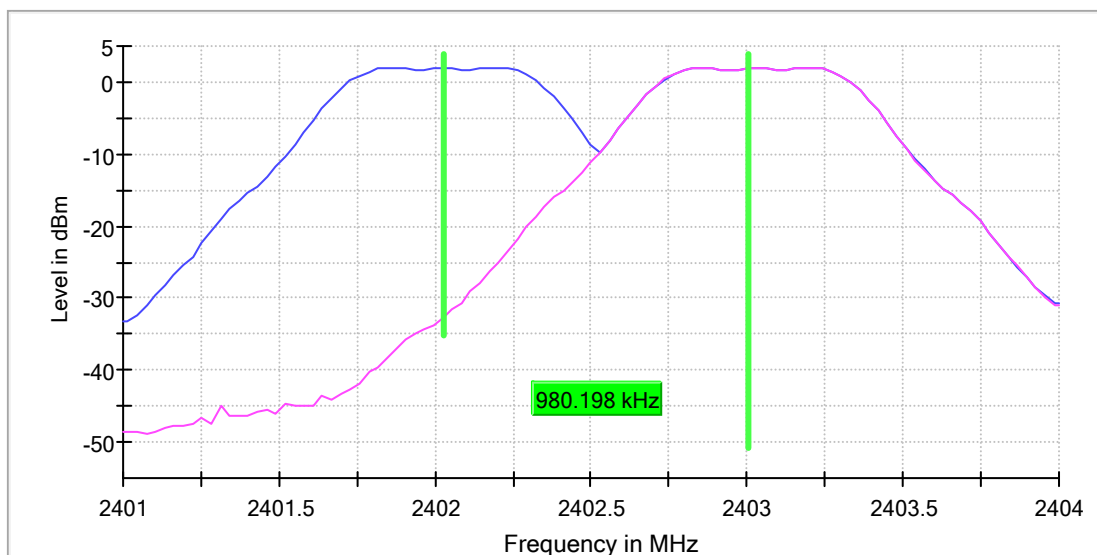


Date: 8.AUG.2019 07:08:11

Appendix B.4: Test Plots of Carrier Frequency Separation

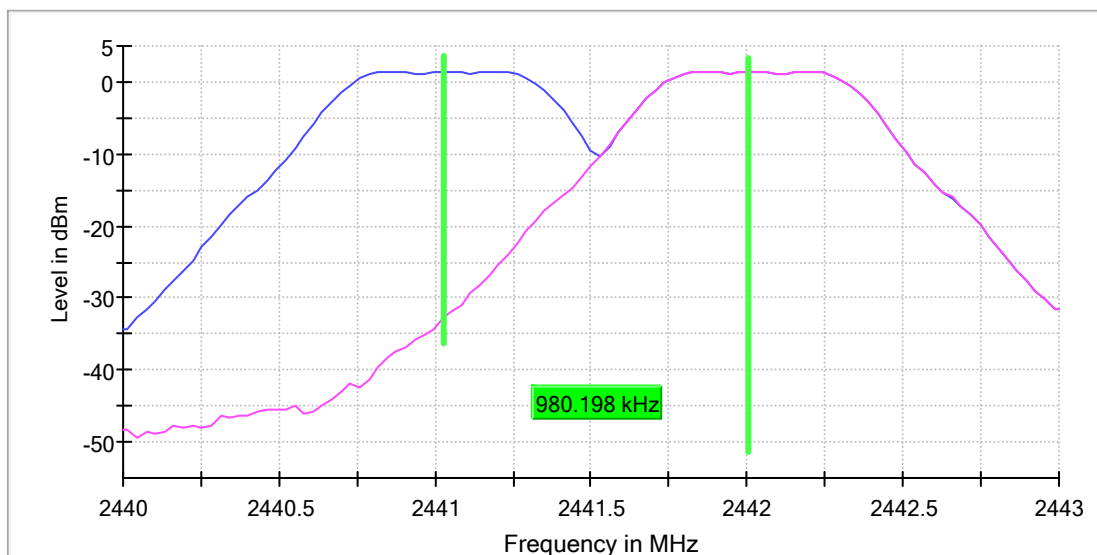
BDR, Low Channel

RBW=300KHz, VBW=300KHz



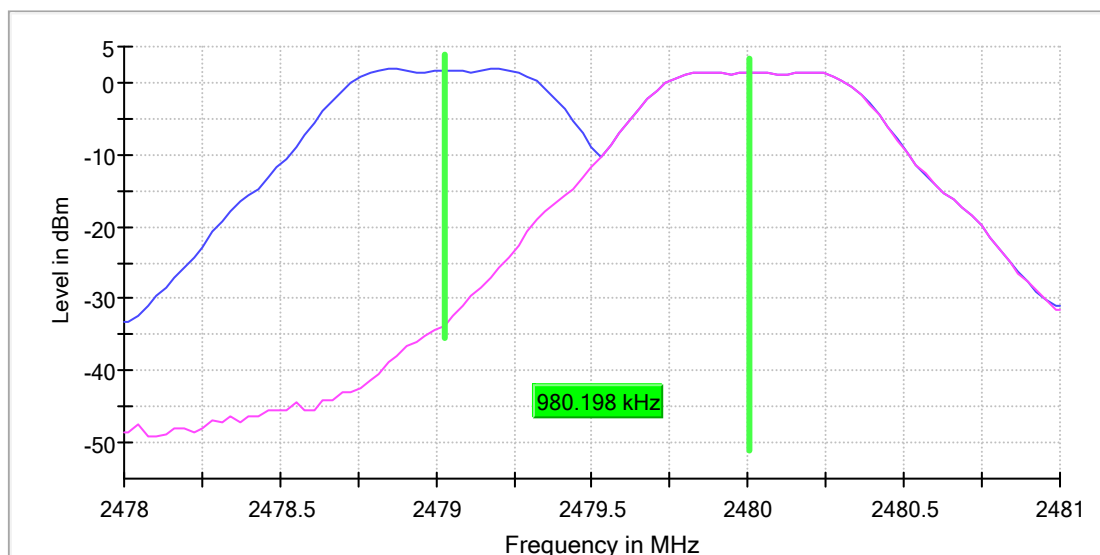
BDR, Middle Channel

RBW=300KHz, VBW=300KHz



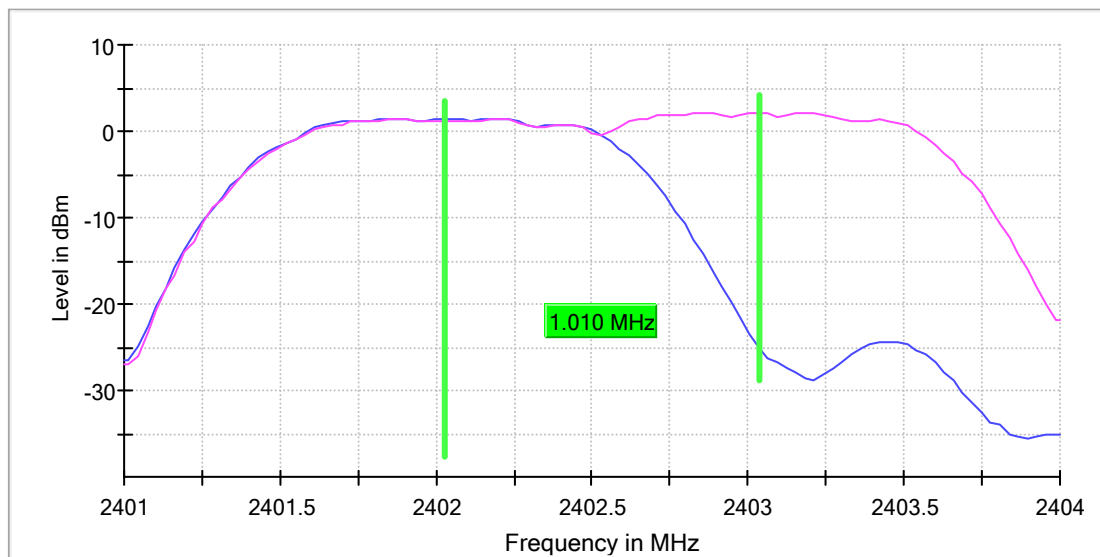
BDR, High Channel

RBW=300KHz, VBW=300KHz

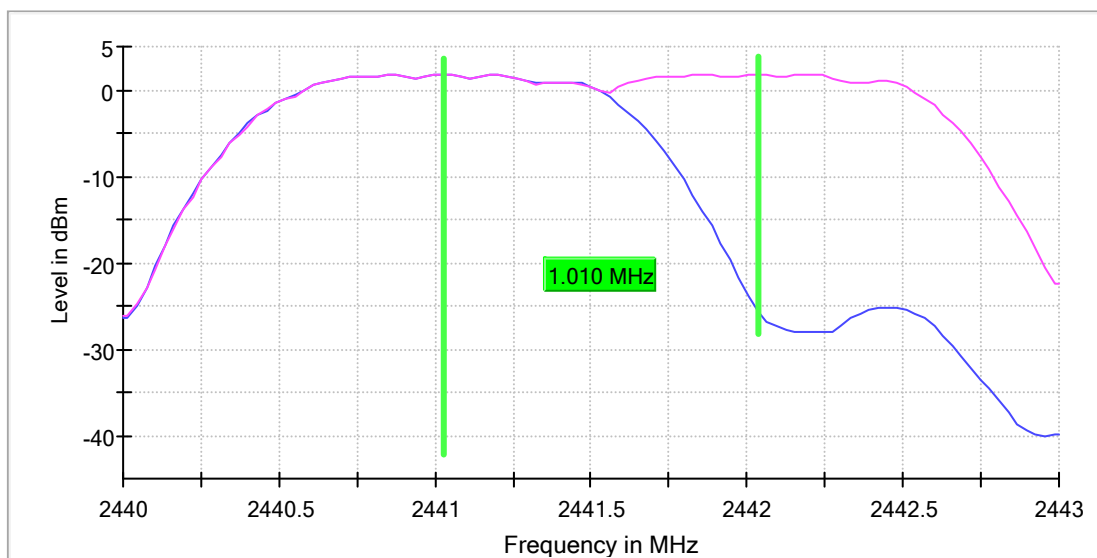


EDR, Low Channel

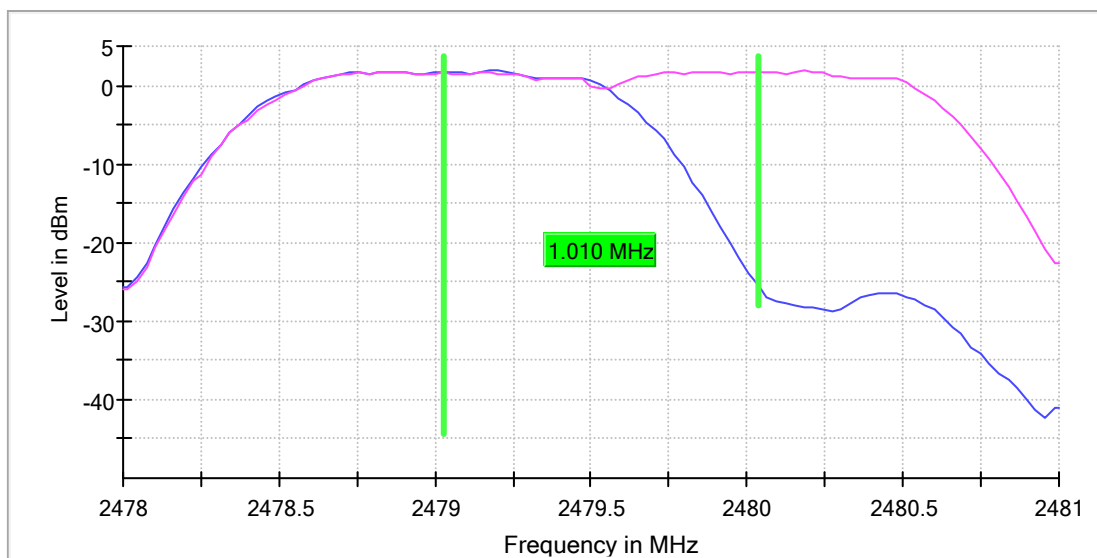
RBW=300KHz, VBW=300KHz



EDR, Middle Channel
RBW=300KHz, VBW=300KHz



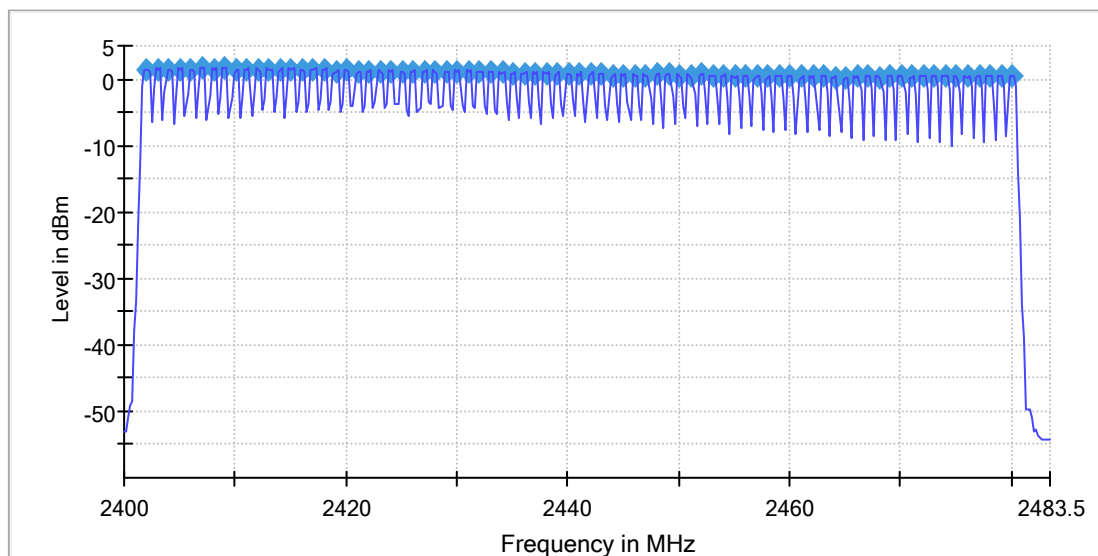
EDR, High Channel
RBW=300KHz, VBW=300KHz



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

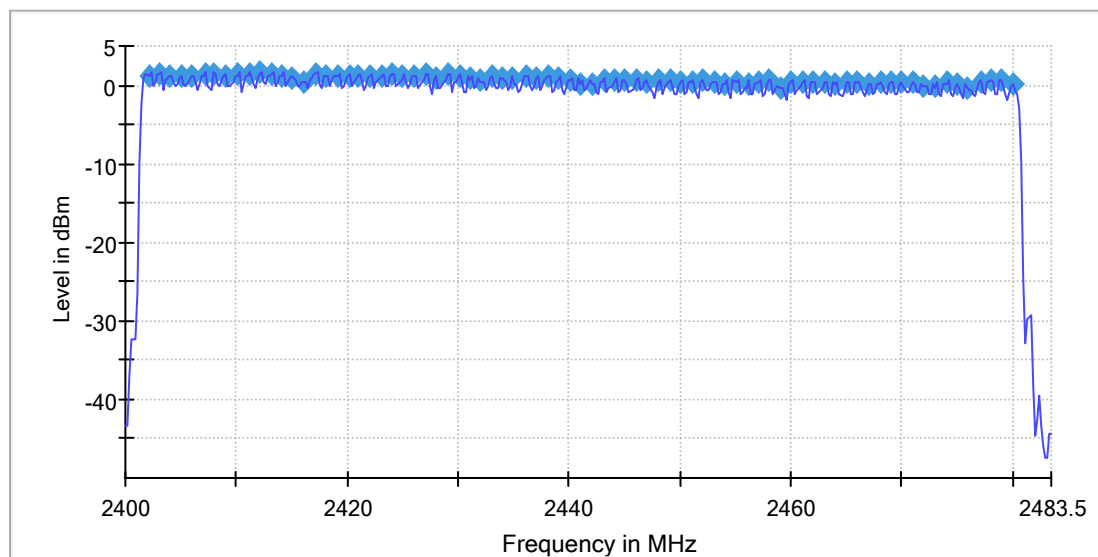
BDR, Hopping

RBW=200KHzM, VBW=200KHz



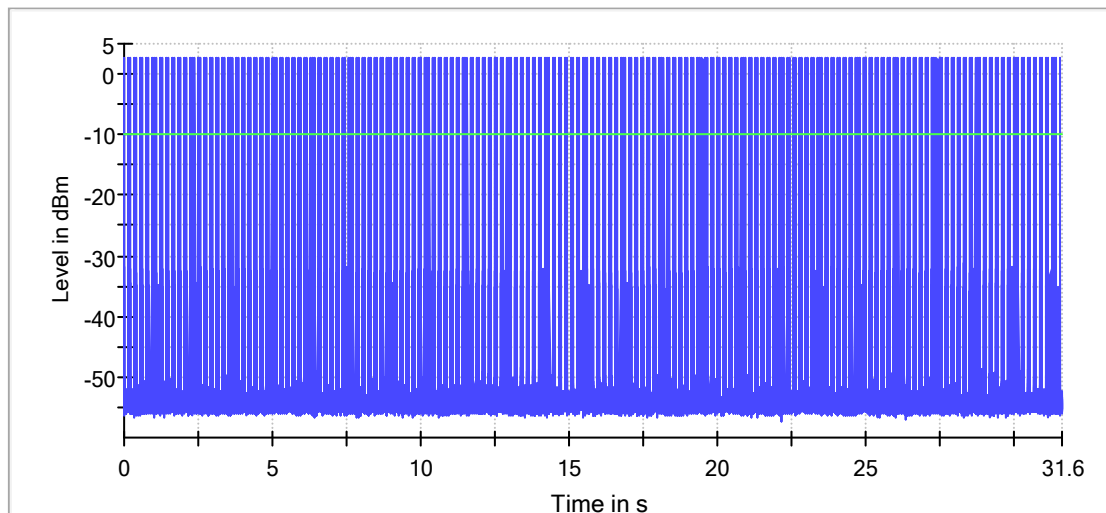
EDR, Hopping

RBW=200KHzM, VBW=200KHz



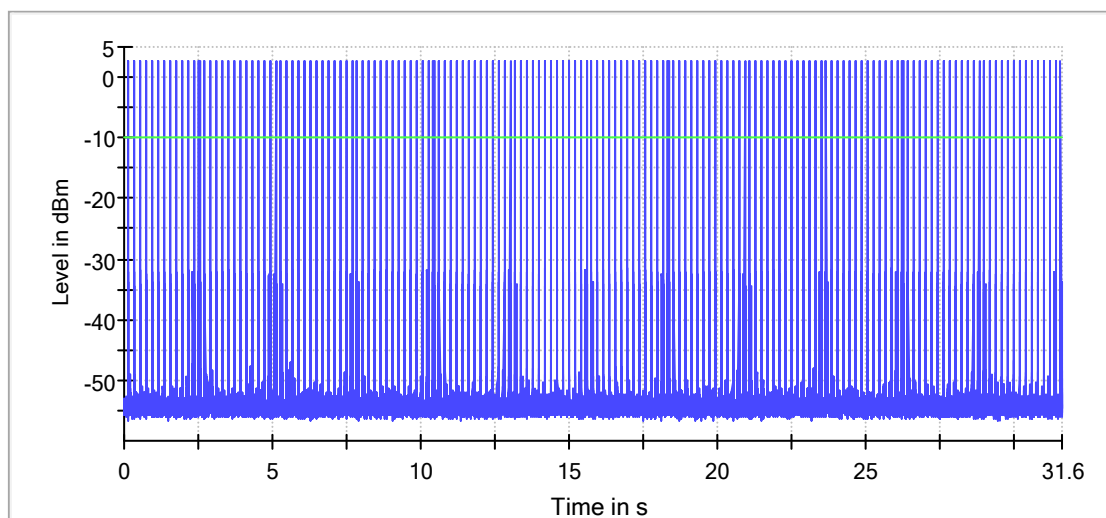
Appendix B.6: Test Plots of Time of Occupancy

BDR Mode, DH1, Middle Channel
RBW=500KHzM, VBW=1MHz



— Trace — Threshold

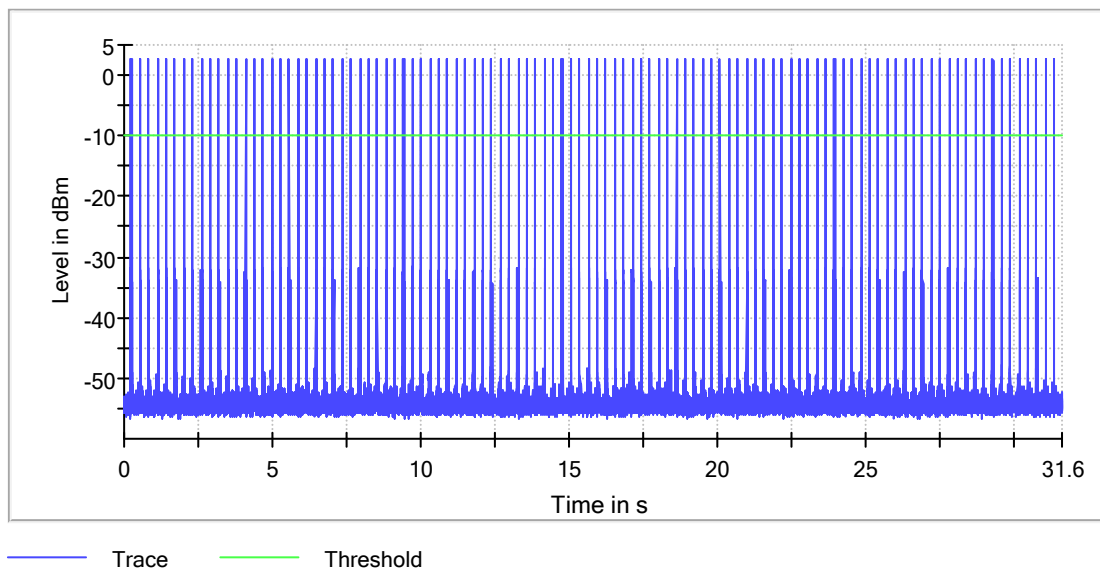
BDR Mode, DH3, Middle Channel
RBW=500KHzM, VBW=1MHz



— Trace — Threshold

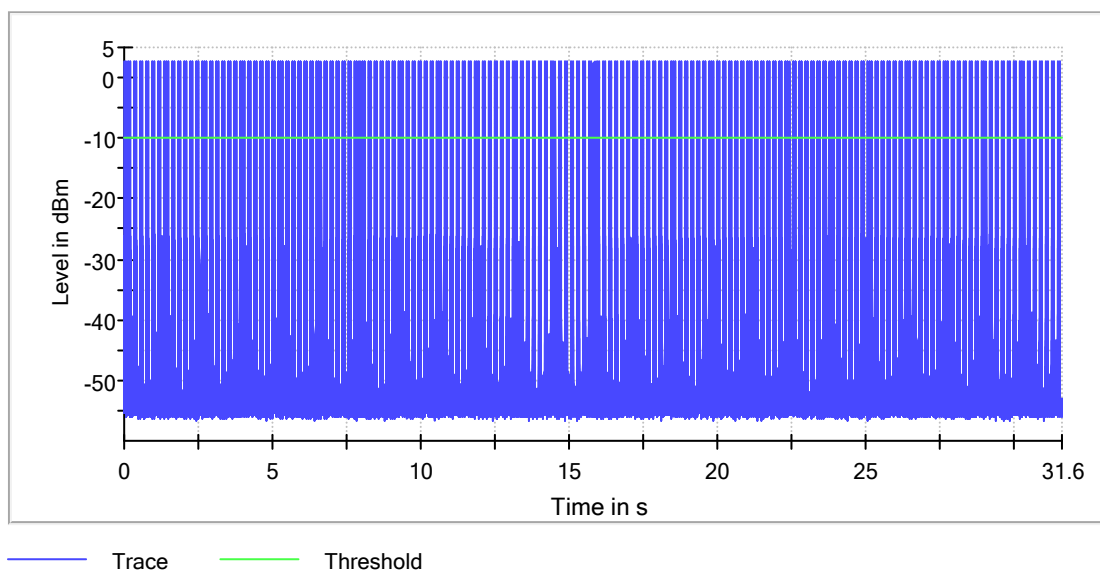
BDR Mode, DH5, Middle Channel

RBW=500KHzM, VBW=1MHz

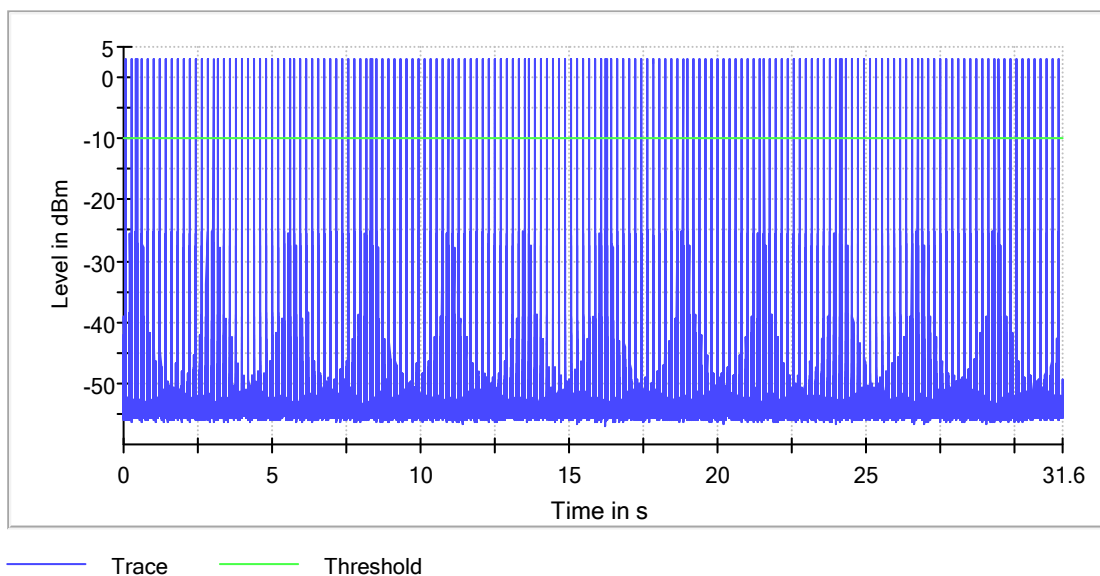


EDR Mode, 3DH1, Middle Channel

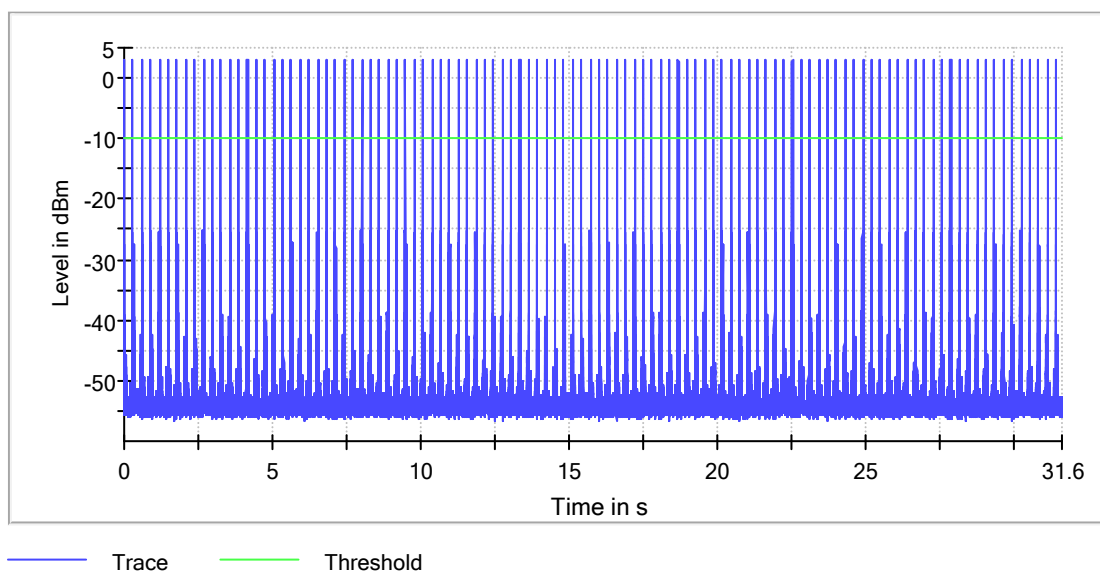
RBW=500KHzM, VBW=1MHz



EDR Mode, 3DH3, Middle Channel
RBW=500KHzM, VBW=1MHz



EDR Mode, 3DH5, Middle Channel
RBW=500KHzM, VBW=1MHz



Appendix C

Test Results of Radiated Emission & AC Mains Conducted Emission

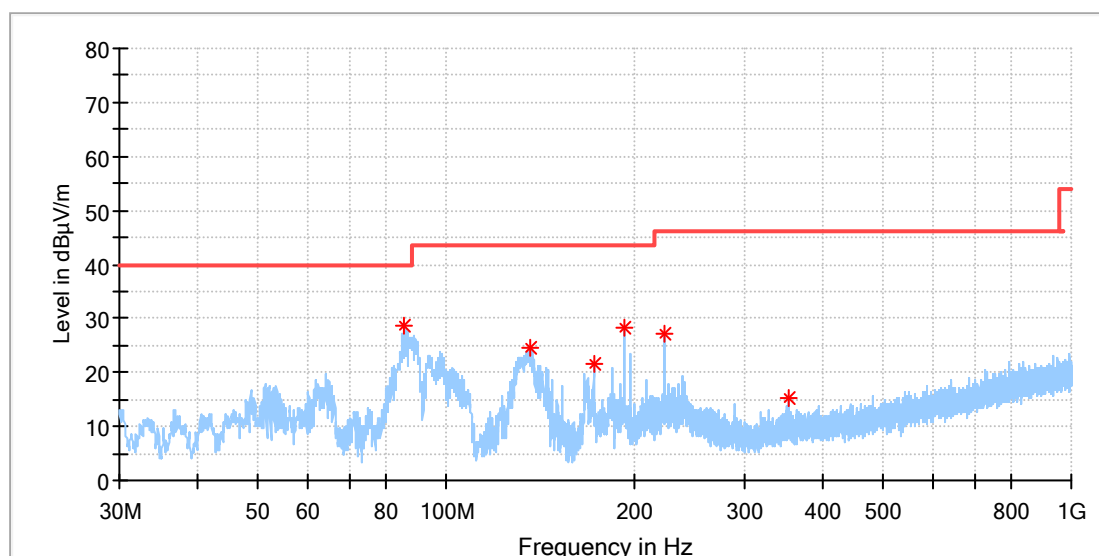
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Note: The radiated spurious emission were measured from 9KHz to 26.5GHz, the measurements from 9KHz-30MHz with active loop antenna were greater than 20dB below the limit, so the radiated Spurious Emissions (9kHz – 30MHz) tests were recorded but not showed in the appendix B.

Appendix C.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz

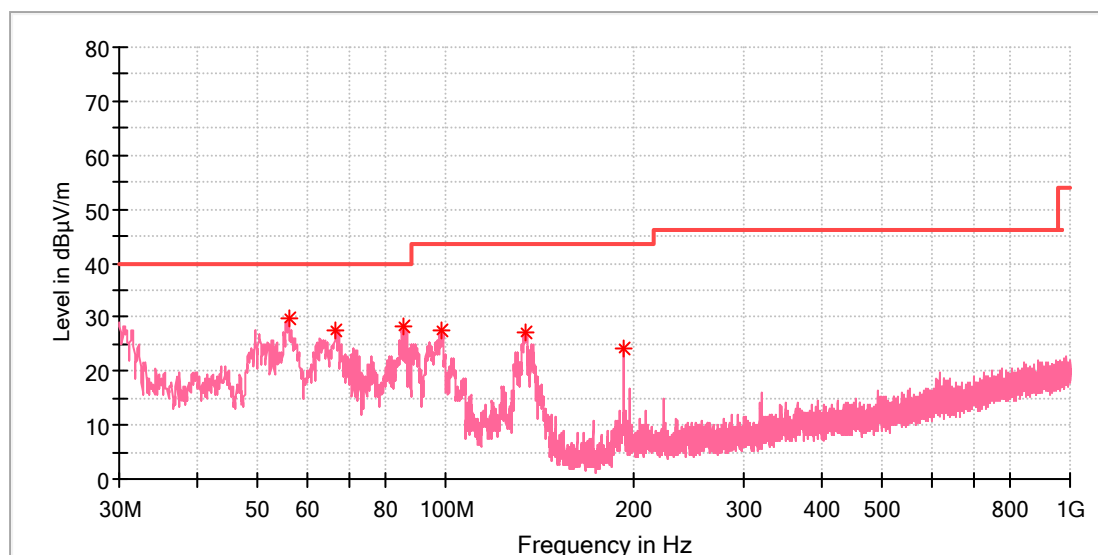
EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: BT CH0



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
85.775000	28.71	---	40.00	11.29	100.0	H	91.0	-22.5
136.360500	24.54	---	43.50	18.96	100.0	H	299.0	-22.4
172.056500	21.76	---	43.50	21.74	100.0	H	249.0	-21.5
192.475000	28.13	---	43.50	15.37	100.0	H	356.0	-19.7
224.000000	27.03	---	46.00	18.97	100.0	H	137.0	-18.7
351.991500	15.14	---	46.00	30.86	100.0	H	45.0	-15.1

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: BT CH0



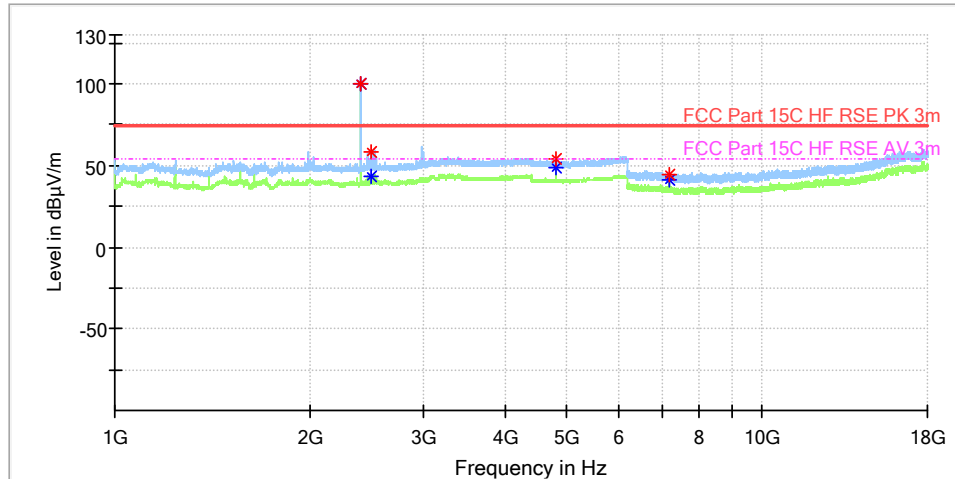
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.093000	29.77	---	40.00	10.23	100.0	V	279.0	-18.9
66.617500	27.63	---	40.00	12.37	100.0	V	167.0	-21.0
85.823500	28.37	---	40.00	11.63	100.0	V	194.0	-22.5
98.288000	27.70	---	43.50	15.80	100.0	V	253.0	-19.6
133.838500	27.24	---	43.50	16.26	100.0	V	338.0	-22.3
192.523500	24.08	---	43.50	19.42	100.0	V	135.0	-19.7

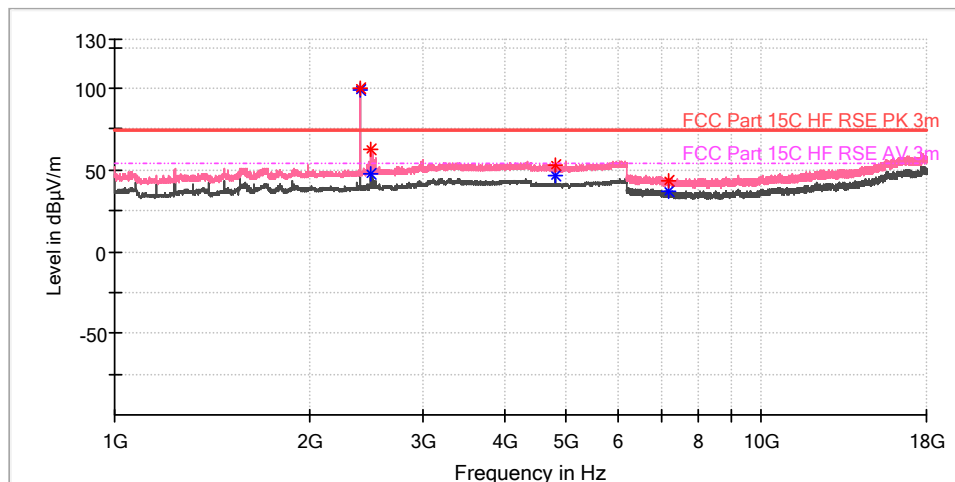
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Products

BDR mode, 1GHz - 18GHz

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_GFSK_CH0

**Critical_Freqs**

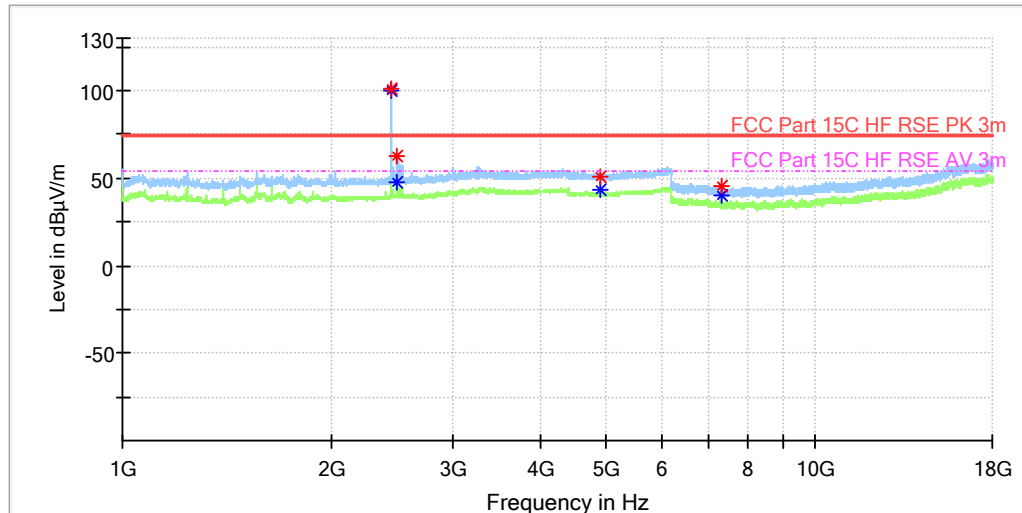
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	---	99.60	54.00	-45.60	100.0	H	114.0	7.0
2402.000000	99.99	---	74.00	-25.99	100.0	H	114.0	7.0
2492.000000	58.27	---	74.00	15.73	100.0	H	100.0	7.4
2492.000000	---	43.74	54.00	10.26	100.0	H	100.0	7.4
4803.500000	---	48.17	54.00	5.83	100.0	H	121.0	13.6
4804.000000	54.06	---	74.00	19.94	100.0	H	121.0	13.6
7205.950000	44.37	---	74.00	29.63	100.0	H	48.0	8.8
7205.950000	---	40.87	54.00	13.13	100.0	H	48.0	8.8

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	99.71	---	74.00	-25.71	100.0	V	303.0	7.0
2402.000000	---	99.34	54.00	-45.34	100.0	V	303.0	7.0
2495.000000	---	47.20	54.00	6.80	100.0	V	155.0	7.4
2495.000000	63.13	---	74.00	10.87	100.0	V	155.0	7.4
4804.000000	53.37	---	74.00	20.63	100.0	V	274.0	13.6
4804.000000	---	46.23	54.00	7.77	100.0	V	274.0	13.6
7204.475000	43.60	---	74.00	30.40	100.0	V	142.0	8.8
7205.458333	---	37.06	54.00	16.94	100.0	V	274.0	8.8

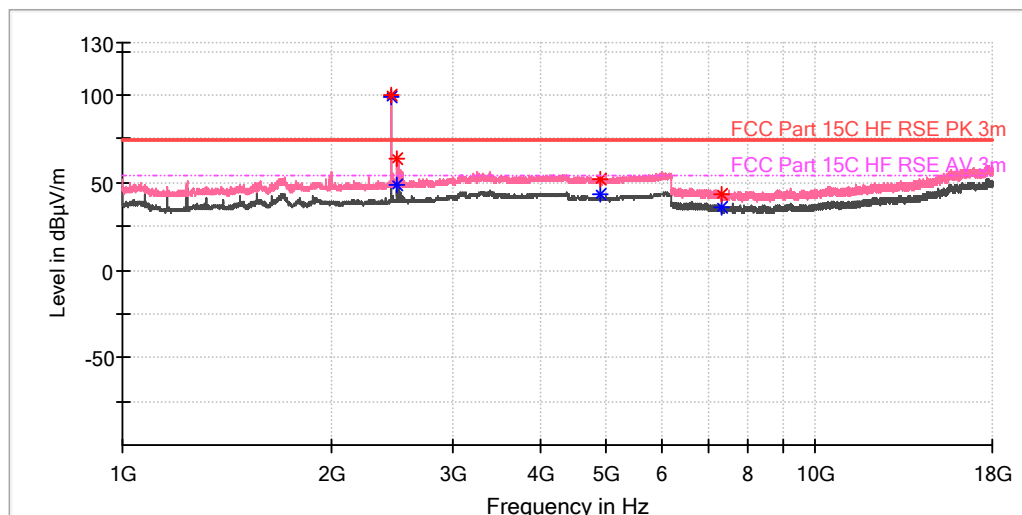
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Products

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_GFSK_CH39



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2441.000000	---	100.26	54.00	-46.26	100.0	H	240.0	7.4
2441.000000	100.70	---	74.00	-26.70	100.0	H	240.0	7.4
2494.500000	---	47.63	54.00	6.37	100.0	H	64.0	7.4
2495.000000	62.79	---	74.00	11.21	100.0	H	64.0	7.4
4882.000000	---	43.17	54.00	10.83	100.0	H	322.0	13.4
4882.500000	50.74	---	74.00	23.26	100.0	H	238.0	13.4
7322.966667	---	40.12	54.00	13.88	100.0	H	41.0	8.2
7323.458333	45.41	---	74.00	28.59	100.0	H	54.0	8.2

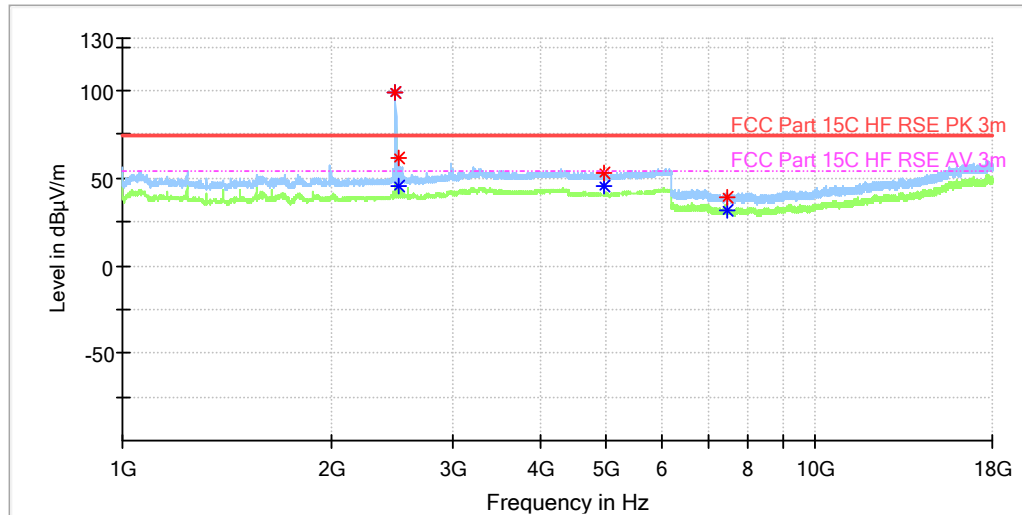


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2441.000000	---	99.44	54.00	-45.44	100.0	V	296.0	7.4
2441.000000	99.95	---	74.00	-25.95	100.0	V	296.0	7.4
2495.500000	63.65	---	74.00	10.35	100.0	V	22.0	7.4
2495.500000	---	48.21	54.00	5.79	100.0	V	22.0	7.4
4881.500000	---	43.43	54.00	10.57	100.0	V	317.0	13.4
4881.500000	51.41	---	74.00	22.59	100.0	V	317.0	13.4
7322.966667	---	35.92	54.00	18.08	100.0	V	48.0	8.2
7322.966667	43.60	---	74.00	30.40	100.0	V	48.0	8.2

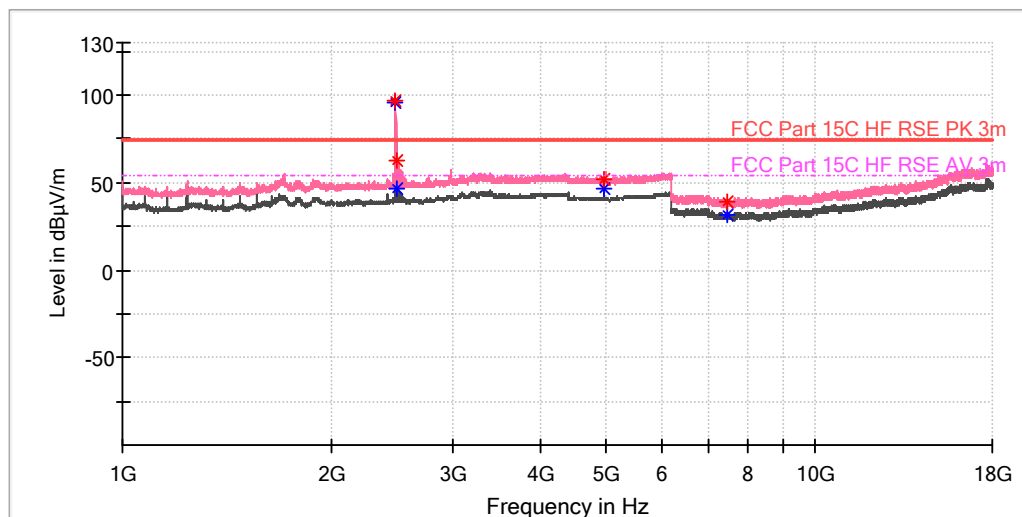
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EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_GFSK_CH78



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	98.60	54.00	-44.60	100.0	H	239.0	7.4
2480.000000	98.97	---	74.00	-24.97	100.0	H	239.0	7.4
2499.500000	---	45.52	54.00	8.48	100.0	H	317.0	7.4
2499.500000	61.92	---	74.00	12.08	100.0	H	317.0	7.4
4960.000000	52.85	---	74.00	21.15	100.0	H	137.0	13.2
4960.000000	---	44.98	54.00	9.02	100.0	H	137.0	13.2
7440.475000	---	31.68	54.00	22.32	100.0	H	220.0	8.4
7440.475000	38.95	---	74.00	35.05	100.0	H	220.0	8.4



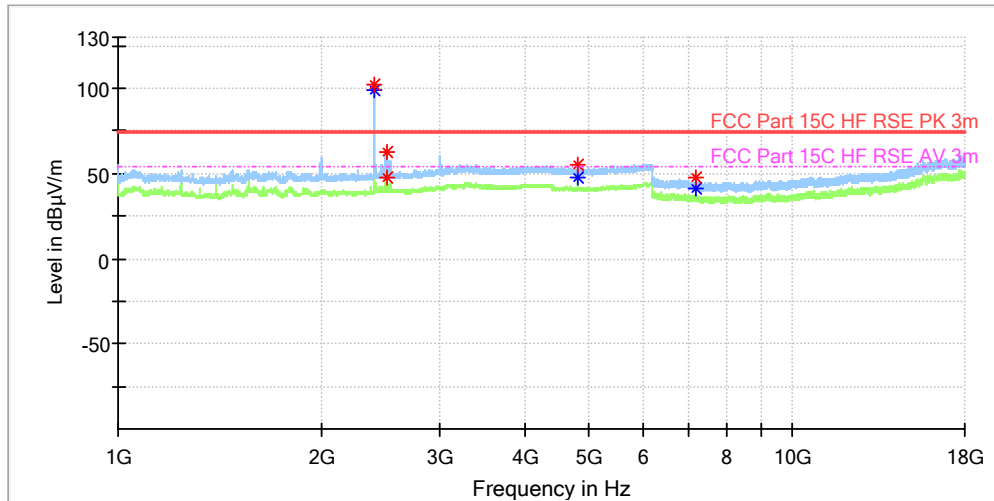
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	96.54	---	74.00	-22.54	100.0	V	303.0	7.4
2480.000000	---	96.01	54.00	-42.01	100.0	V	303.0	7.4
2492.500000	62.20	---	74.00	11.80	100.0	V	49.0	7.4
2493.000000	---	46.81	54.00	7.19	100.0	V	120.0	7.4
4960.000000	52.41	---	74.00	21.59	100.0	V	323.0	13.2
4960.000000	---	46.29	54.00	7.71	100.0	V	323.0	13.2
7440.966667	---	31.65	54.00	22.35	100.0	V	2.0	8.4
7441.458333	39.11	---	74.00	34.89	100.0	V	232.0	8.4

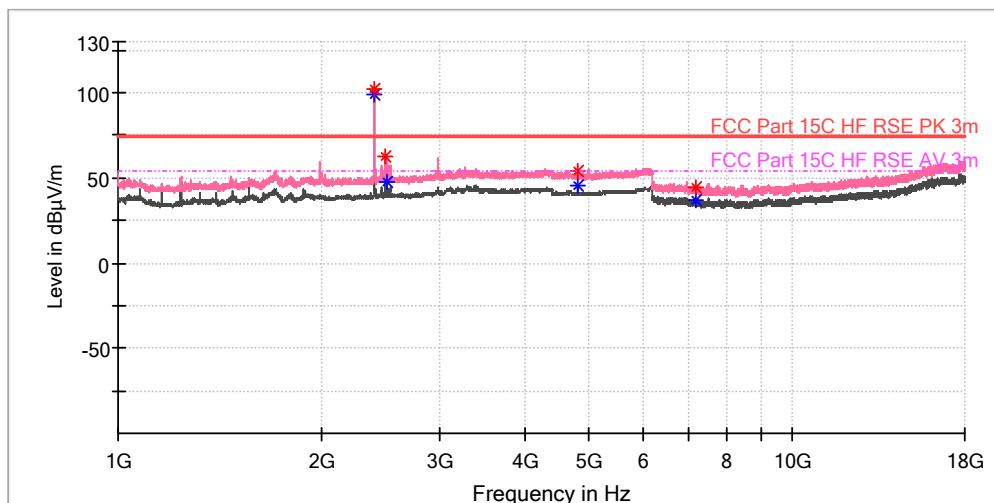
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Products

EDR mode, 1GHz - 18GHz

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_8DPSK_CH0

**Critical Freqs**

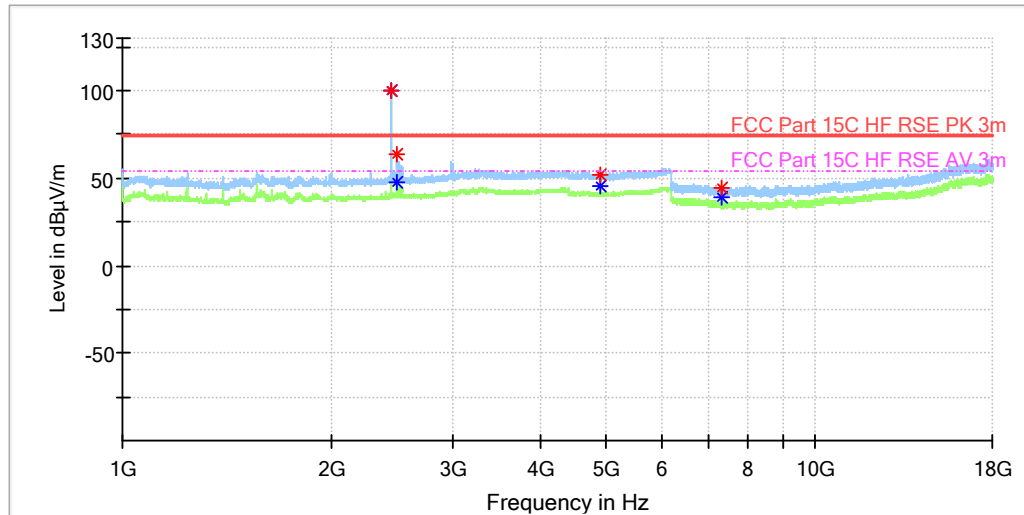
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.500000	101.85	---	74.00	-27.85	100.0	H	114.0	7.0
2402.000000	---	98.75	54.00	-44.75	100.0	H	114.0	7.0
2500.000000	62.24	---	74.00	11.76	100.0	H	274.0	7.4
2501.000000	47.68	---	74.00	26.32	100.0	H	29.0	7.4
4803.000000	54.94	---	74.00	19.06	100.0	H	230.0	13.6
4804.000000	---	47.36	54.00	6.64	100.0	H	293.0	13.6
7206.441667	---	41.20	54.00	12.80	100.0	H	61.0	8.8
7206.441667	47.38	---	74.00	26.62	100.0	H	61.0	8.8

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	102.42	---	74.00	-28.42	100.0	V	291.0	7.0
2402.000000	---	98.86	54.00	-44.86	100.0	V	291.0	7.0
2496.000000	62.97	---	74.00	11.03	100.0	V	333.0	7.4
2496.500000	---	47.83	54.00	6.17	100.0	V	115.0	7.4
4804.000000	53.83	---	74.00	20.17	100.0	V	319.0	13.6
4804.000000	---	45.98	54.00	8.02	100.0	V	319.0	13.6
7205.950000	---	36.45	54.00	17.55	100.0	V	108.0	8.8
7206.933333	44.44	---	74.00	29.56	100.0	V	108.0	8.8

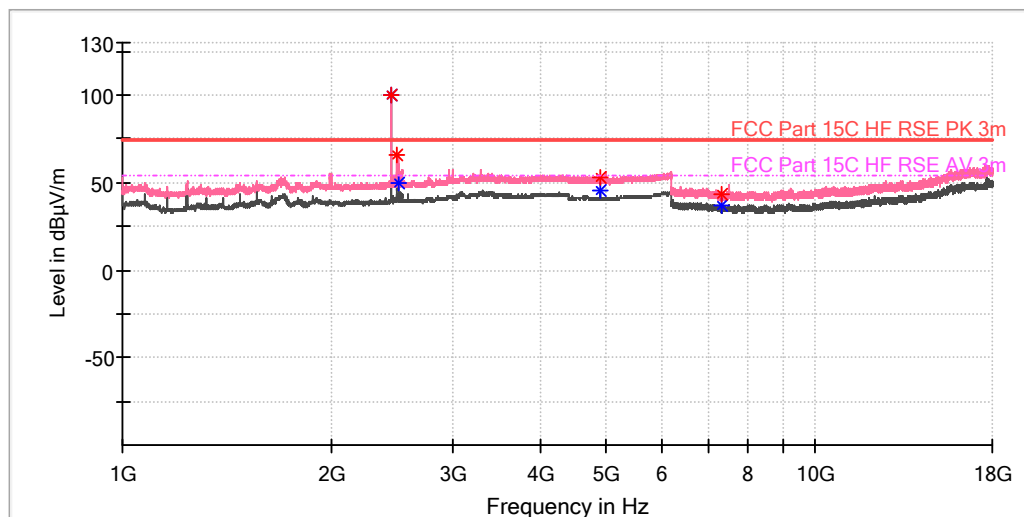
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Products

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_8DPSK_CH39



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2441.000000	---	100.20	54.00	-46.20	100.0	H	237.0	7.4
2441.000000	100.46	---	74.00	-26.46	100.0	H	237.0	7.4
2490.000000	---	47.95	54.00	6.05	100.0	H	26.0	7.4
2490.000000	63.20	---	74.00	10.80	100.0	H	26.0	7.4
4882.000000	51.50	---	74.00	22.50	100.0	H	134.0	13.4
4882.000000	---	45.51	54.00	8.49	100.0	H	134.0	13.4
7322.475000	44.64	---	74.00	29.36	100.0	H	48.0	8.2
7322.475000	---	38.78	54.00	15.22	100.0	H	48.0	8.2

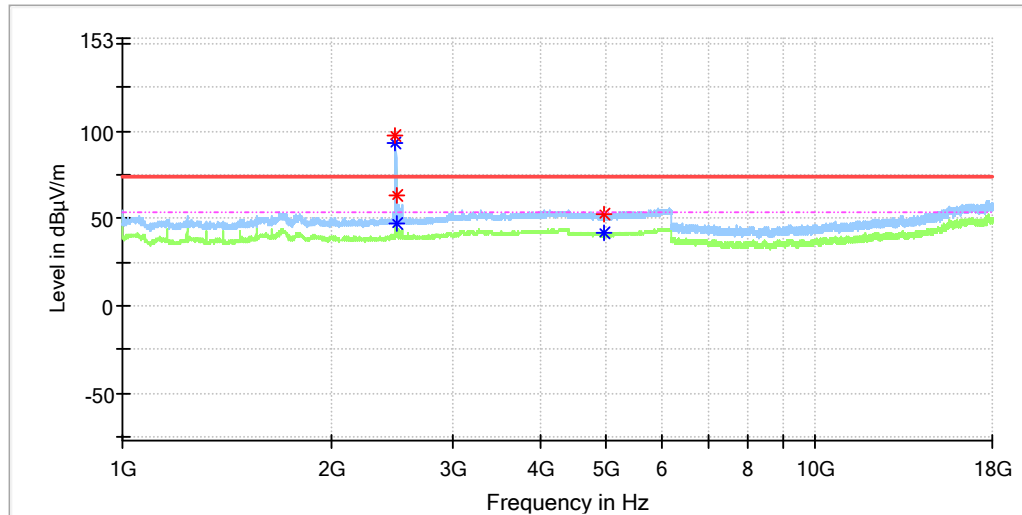


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2441.000000	100.17	---	74.00	-26.17	100.0	V	310.0	7.4
2441.000000	---	99.91	54.00	-45.91	100.0	V	310.0	7.4
2496.000000	65.61	---	74.00	8.40	100.0	V	148.0	7.4
2496.500000	---	49.27	54.00	4.73	100.0	V	148.0	7.4
4882.000000	52.68	---	74.00	21.32	100.0	V	350.0	13.4
4882.000000	---	45.21	54.00	8.79	100.0	V	350.0	13.4
7322.966667	---	36.40	54.00	17.60	100.0	V	86.0	8.2
7322.966667	43.06	---	74.00	30.94	100.0	V	86.0	8.2

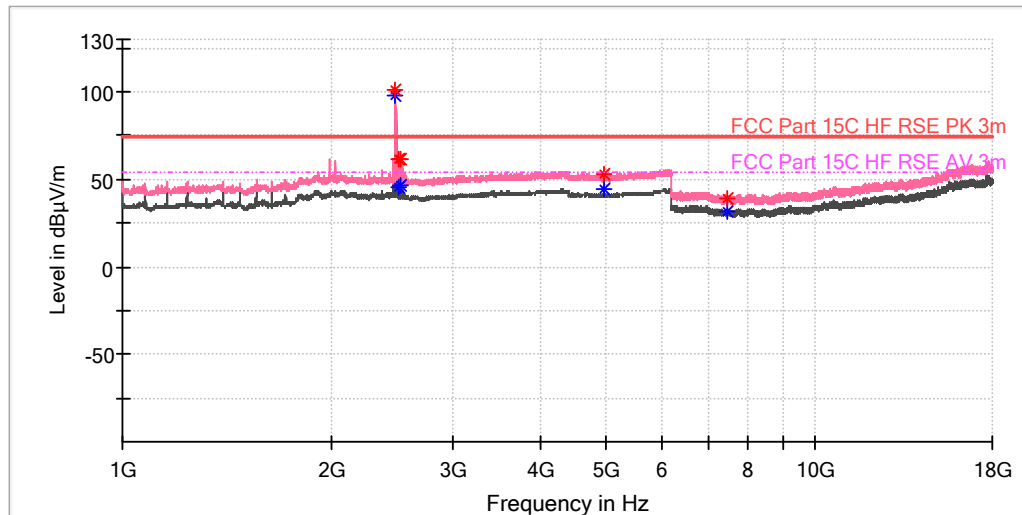
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Products

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_8DPSK_CH78



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	93.36	54.00	-39.36	100.0	H	231.0	7.4
2480.000000	97.13	---	74.00	-23.13	100.0	H	231.0	7.4
2493.000000	---	46.84	54.00	7.16	100.0	H	287.0	7.4
2493.500000	63.06	---	74.00	10.94	100.0	H	287.0	7.4
4957.000000	52.84	---	74.00	21.16	100.0	H	185.0	13.2
4960.000000	---	41.90	54.00	12.10	100.0	H	86.0	13.2



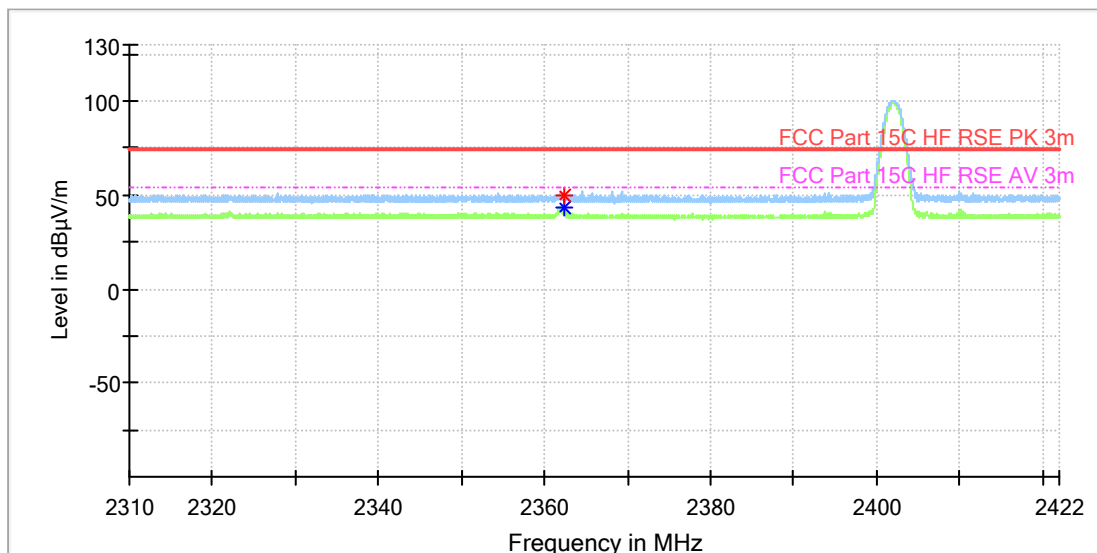
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.000000	---	97.42	54.00	-43.42	100.0	V	311.0	7.4
2480.000000	100.63	---	74.00	-26.63	100.0	V	311.0	7.4
2499.500000	---	45.79	54.00	8.21	100.0	V	311.0	7.4
2500.000000	62.03	---	74.00	11.97	100.0	V	311.0	7.4
2526.000000	---	46.44	54.00	7.56	100.0	V	283.0	7.5
2526.000000	61.04	---	74.00	12.96	100.0	V	283.0	7.5
4960.000000	---	44.71	54.00	9.29	100.0	V	116.0	13.2
4960.500000	53.10	---	74.00	20.90	100.0	V	214.0	13.2
7439.983333	39.49	---	74.00	34.51	100.0	V	240.0	8.4
7441.458333	---	31.76	54.00	22.24	100.0	V	267.0	8.4

Appendix C.2: Test Plots of Band Edge (Radiated)

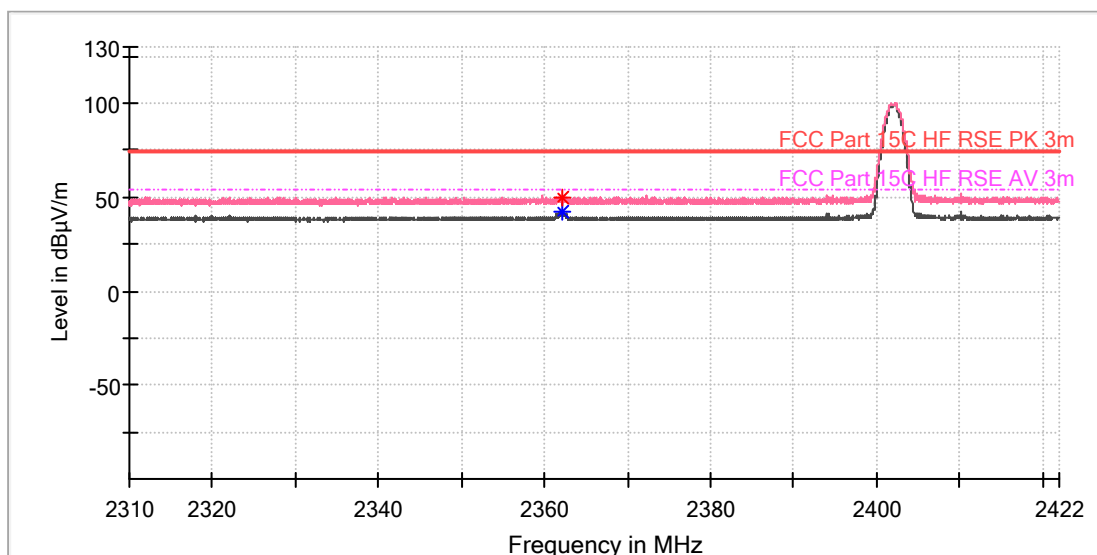
BDR mode, Low Channel

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_GFSK_CH0



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.261177	---	43.33	54.00	10.67	100.0	H	162.0	6.9
2362.277647	49.85	---	74.00	24.15	100.0	H	342.0	6.9

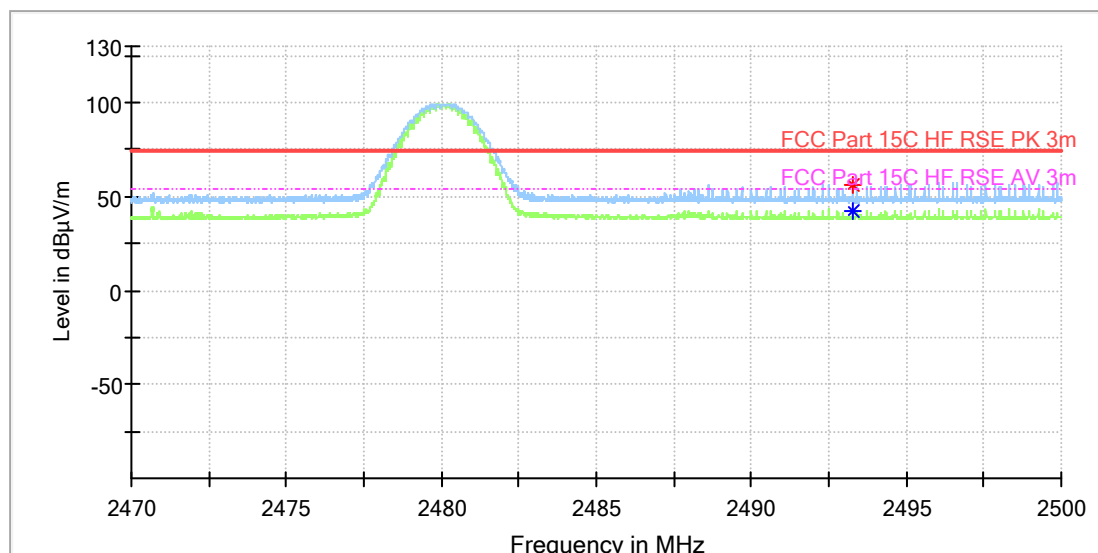


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.080000	50.00	---	74.00	24.00	100.0	V	320.0	6.9
2362.112941	---	42.26	54.00	11.74	100.0	V	327.0	6.9

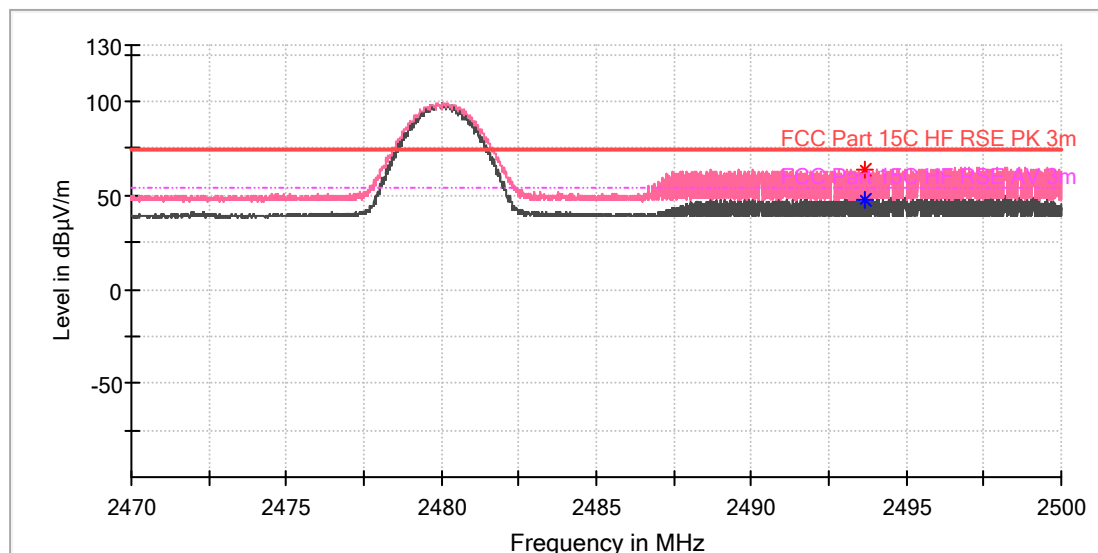
BDR mode, High Channel

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_GFSK_CH78



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.254412	---	42.73	54.00	11.27	100.0	H	0.0	7.4
2493.254412	56.61	---	74.00	17.39	100.0	H	0.0	7.4

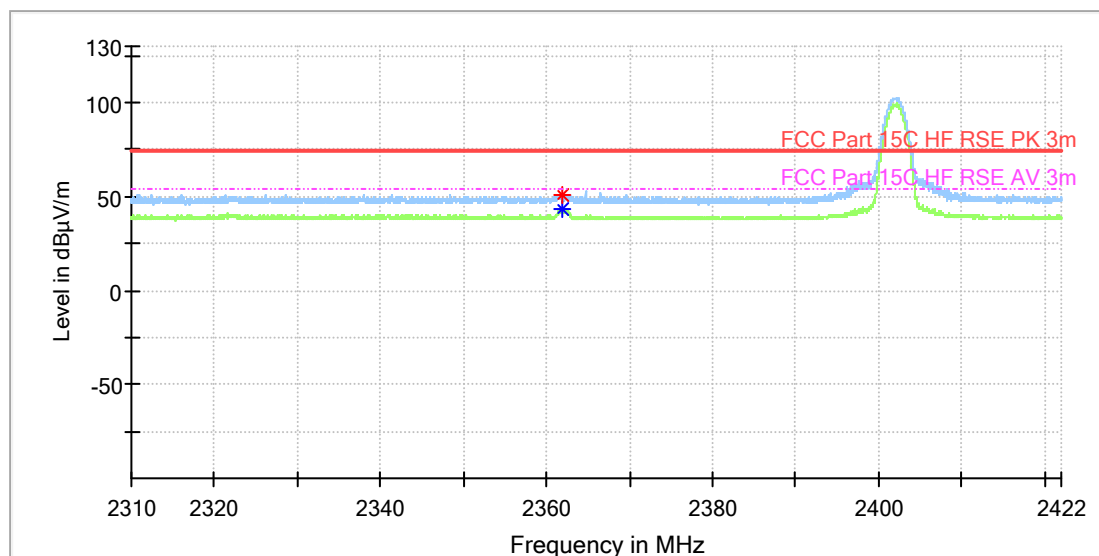


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.633824	---	47.25	54.00	6.75	100.0	V	192.0	7.4
2493.651471	63.50	---	74.00	10.50	100.0	V	136.0	7.4

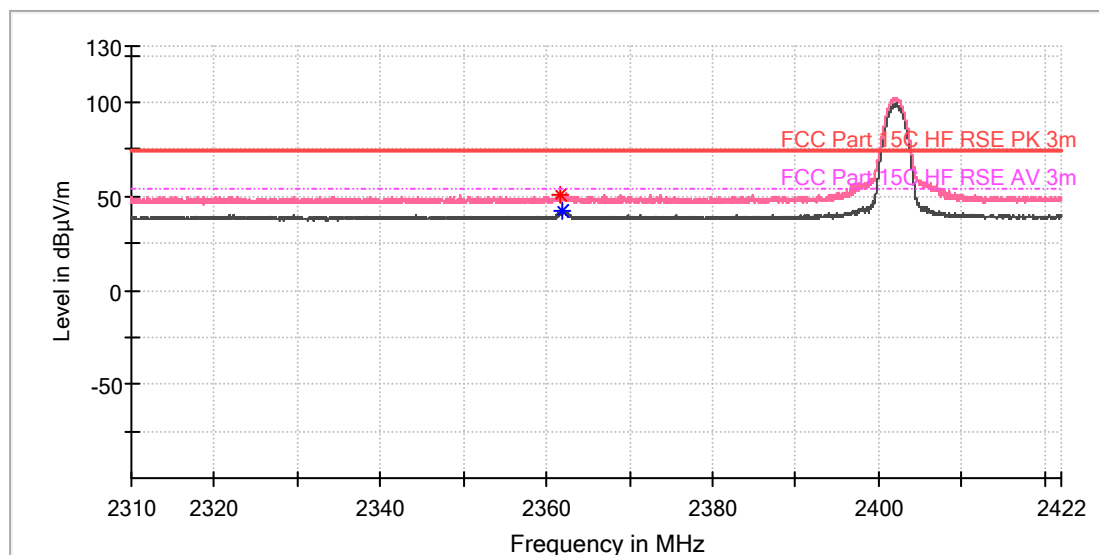
EDR mode, Low Channel

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_8DPSK_CH0



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.981177	50.43	---	74.00	23.57	100.0	H	350.0	6.9
2361.981177	---	43.52	54.00	10.48	100.0	H	350.0	6.9

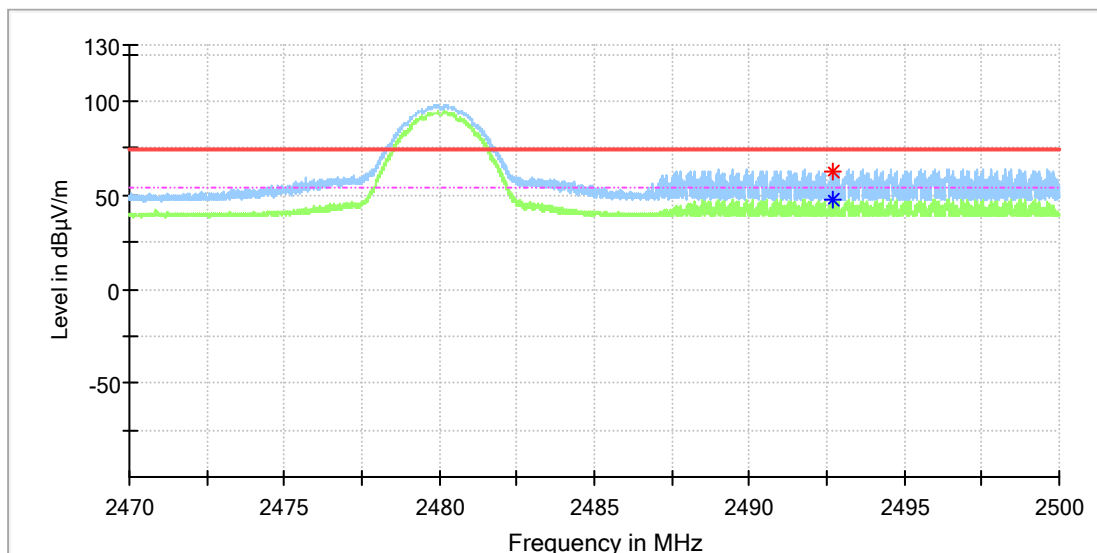


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.734118	50.82	---	74.00	23.18	100.0	V	311.0	6.9
2361.783530	---	42.23	54.00	11.77	100.0	V	304.0	6.9

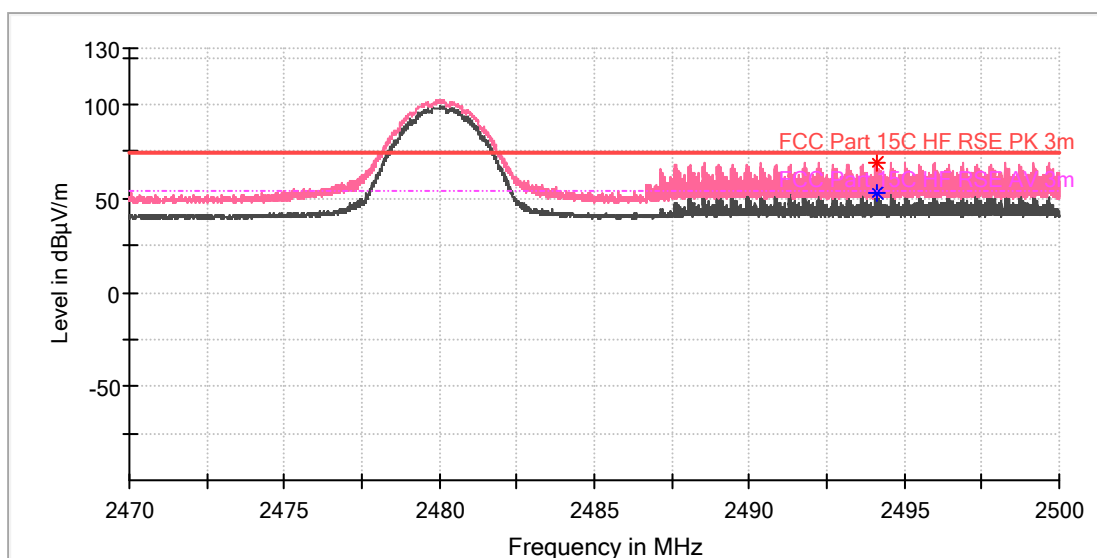
EDR mode, High Channel

EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: TX BT_8DPSK_CH78



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2492.725000	---	47.37	54.00	6.63	100.0	H	283.0	7.4
2492.725000	62.93	---	74.00	11.07	100.0	H	283.0	7.4

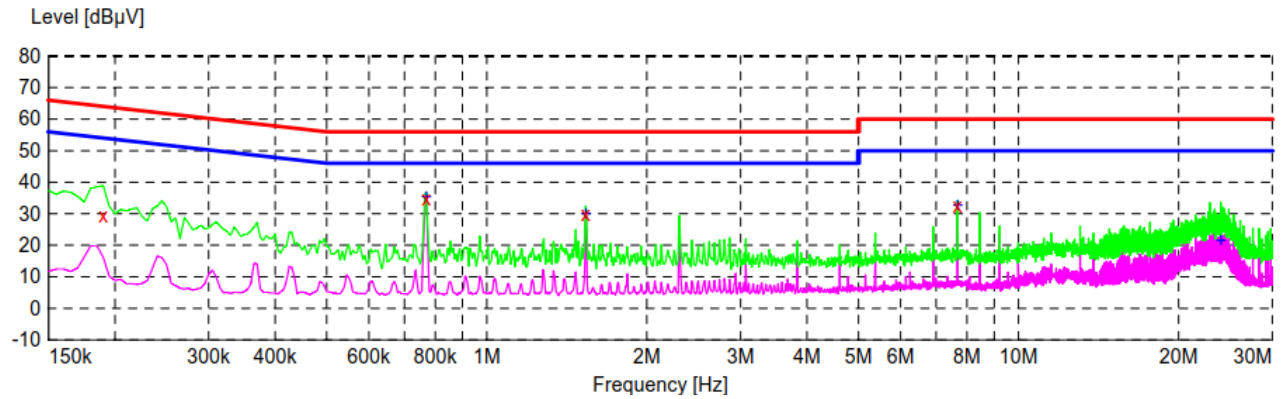


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2494.110294	68.73	---	74.00	5.27	100.0	V	279.0	7.4
2494.114706	---	52.50	54.00	1.50	100.0	V	279.0	7.4

Appendix C.3: Test Plots of AC Mains Conducted Emission

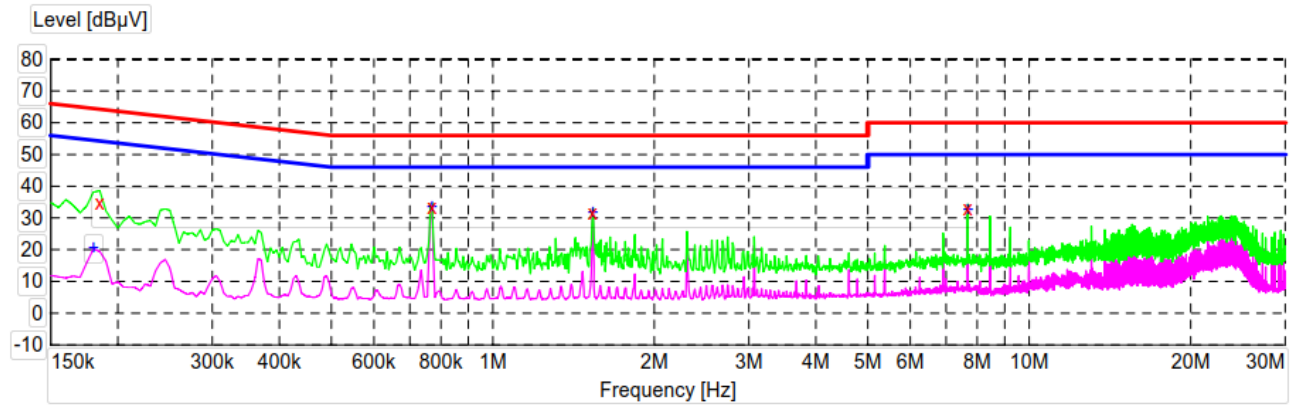
EUT Name: Powered Bookshelf Speakers
 Model: S1000MKII
 Test Mode: BT CH0
 Comment: Line



Frequency MHz	Level dB μ V	Transd dB	Limit	Margin	Detector	Line	PE
0.190000	29.20	10.5	64	34.8	QP	L1	GND
0.770000	34.80	10.6	56	21.2	QP	L1	GND
1.535000	30.00	10.7	56	26.0	QP	L1	GND
7.680000	32.60	10.9	60	27.4	QP	L1	GND
0.770000	34.90	10.6	46	11.1	AV	L1	GND
1.535000	29.80	10.7	46	16.2	AV	L1	GND
7.680000	32.50	10.9	50	17.5	AV	L1	GND
23.995000	21.40	11.0	50	28.6	AV	L1	GND

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EUT Name: Powered Bookshelf Speakers
Model: S1000MKII
Test Mode: BT CH0
Comment: Nature



Frequency MHz	Level dB μ V	Transd dB	Limit	Margin	Detector	Line	PE
0.185000	34.80	10.5	64	29.5	QP	N	GND
0.770000	33.50	10.6	56	22.5	QP	N	GND
1.535000	31.40	10.7	56	24.6	QP	N	GND
7.680000	32.90	10.9	60	27.1	QP	N	GND
0.180000	20.40	10.5	55	34.1	AV	N	GND
0.770000	33.50	10.6	46	12.5	AV	N	GND
1.535000	31.60	10.7	46	14.4	AV	N	GND
7.680000	32.70	10.9	50	17.3	AV	N	GND