

Test Report No.50349170 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50349170 001 Appendix D)

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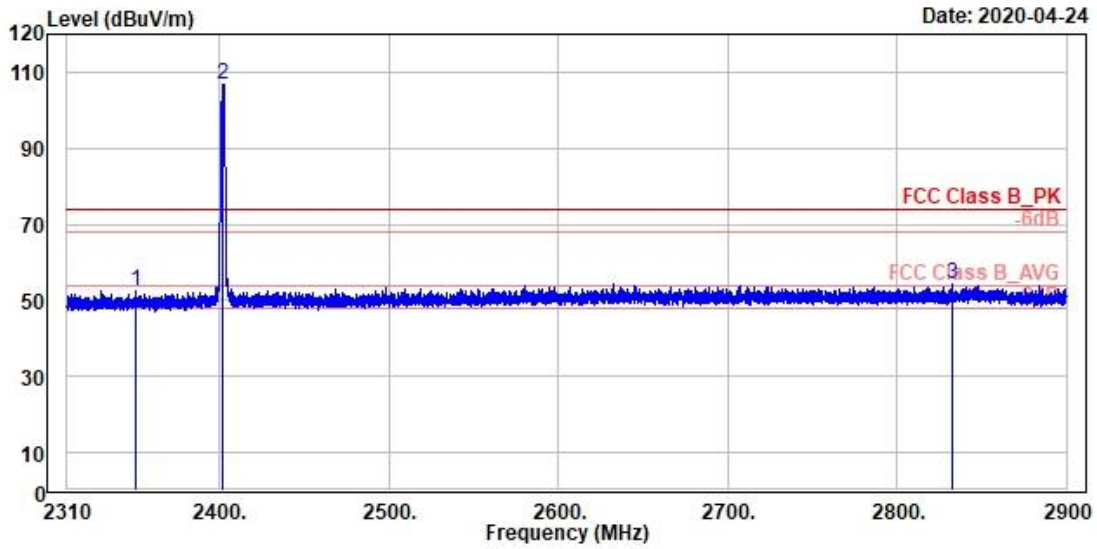
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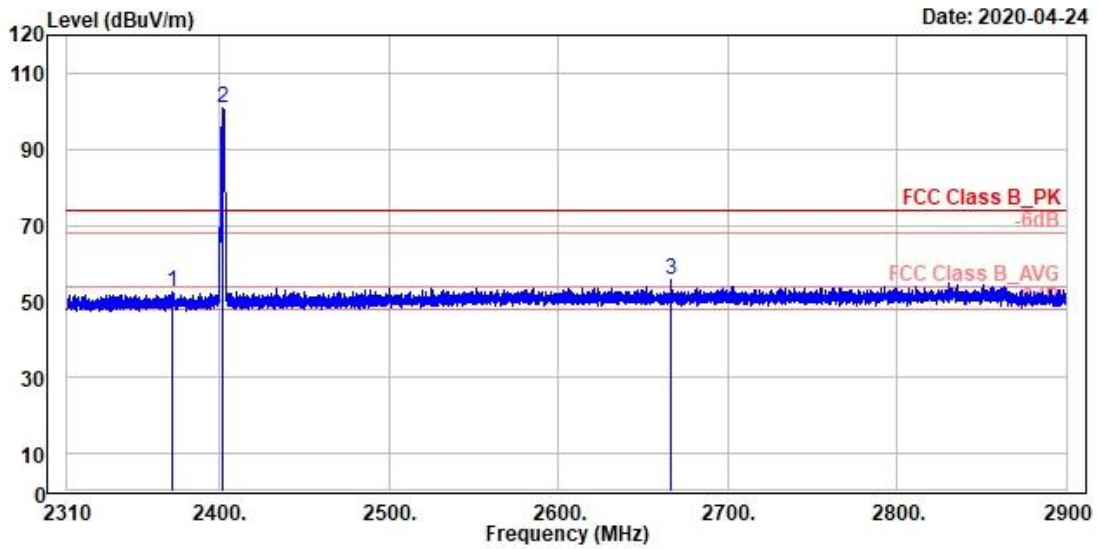
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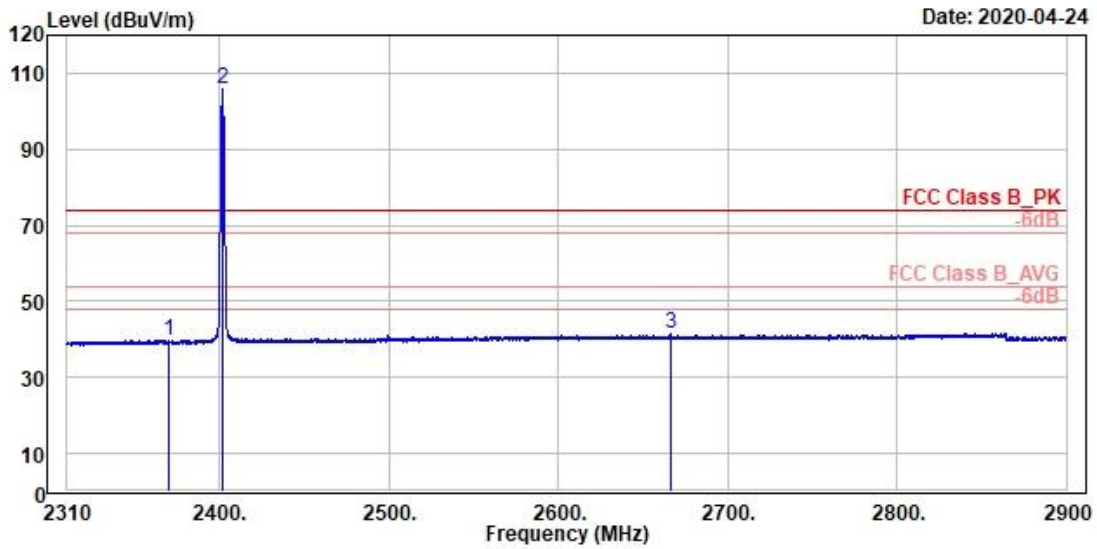
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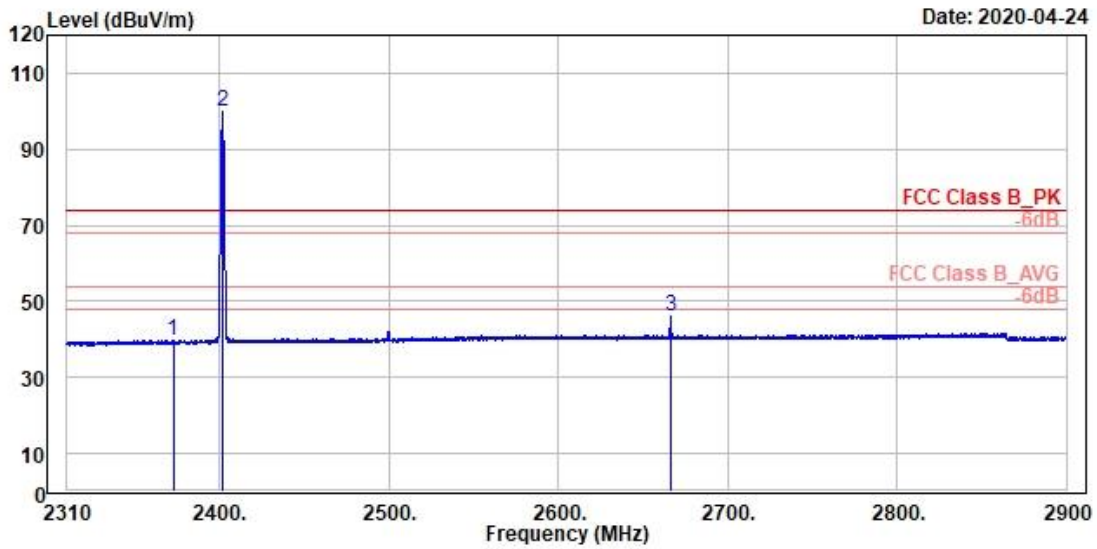
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1	2350.89	52.67	15.46	37.21	74.00	-21.33	275	19	Peak	Horizontal
2 *	2402.00	106.97	69.60	37.37	74.00	32.97	275	19	Peak	Horizontal
3	2832.68	54.19	16.17	38.02	74.00	-19.81	275	19	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2372.25	52.28	15.01	37.27	74.00	-21.72	382	43	Peak	Vertical
2 *	2402.00	100.76	63.39	37.37	74.00	26.76	382	43	Peak	Vertical
3	2666.54	55.53	17.70	37.83	74.00	-18.47	382	43	Peak	Vertical



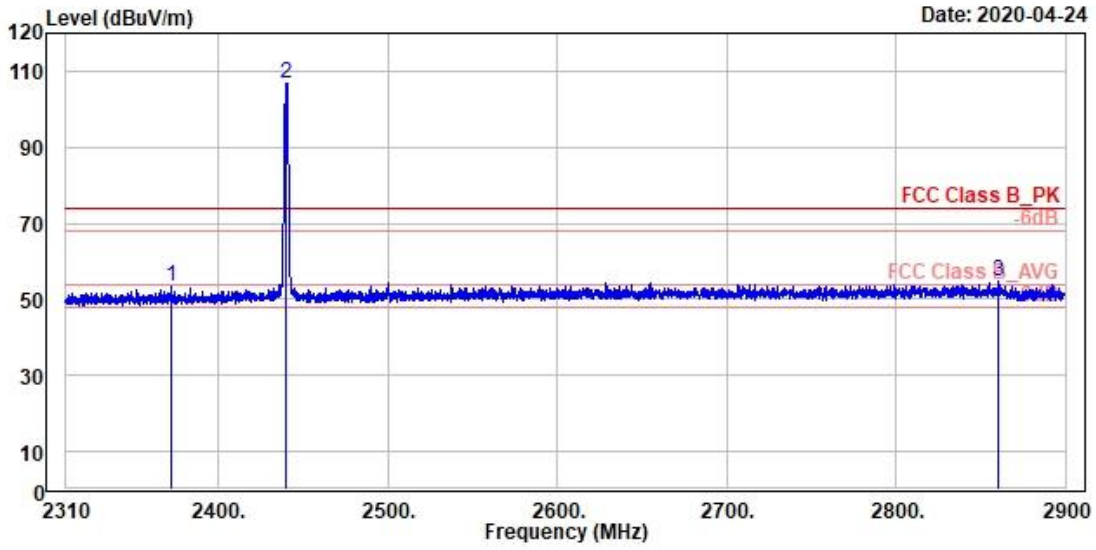
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1	2369.65	39.82	2.55	37.27	54.00	-14.18	275	19	Average	Horizontal
2 *	2402.00	105.97	68.60	37.37	54.00	51.97	275	19	Average	Horizontal
3	2666.54	41.51	3.68	37.83	54.00	-12.49	275	19	Average	Horizontal



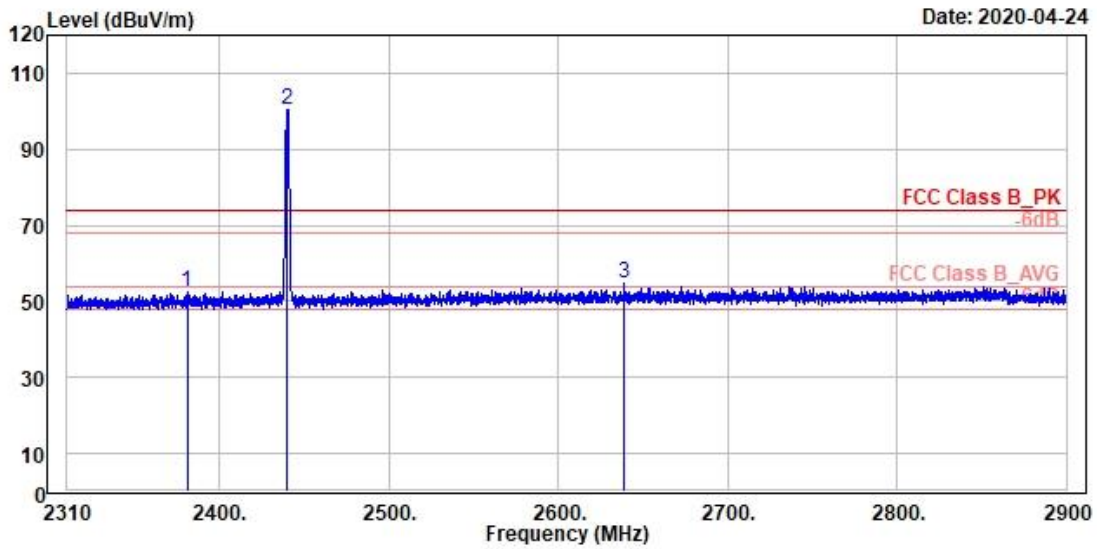
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1	2372.60	39.90	2.62	37.28	54.00	-14.10	382	43	Average	Vertical
2 *	2402.00	99.71	62.34	37.37	54.00	45.71	382	43	Average	Vertical
3	2666.42	46.18	8.35	37.83	54.00	-7.82	382	43	Average	Vertical



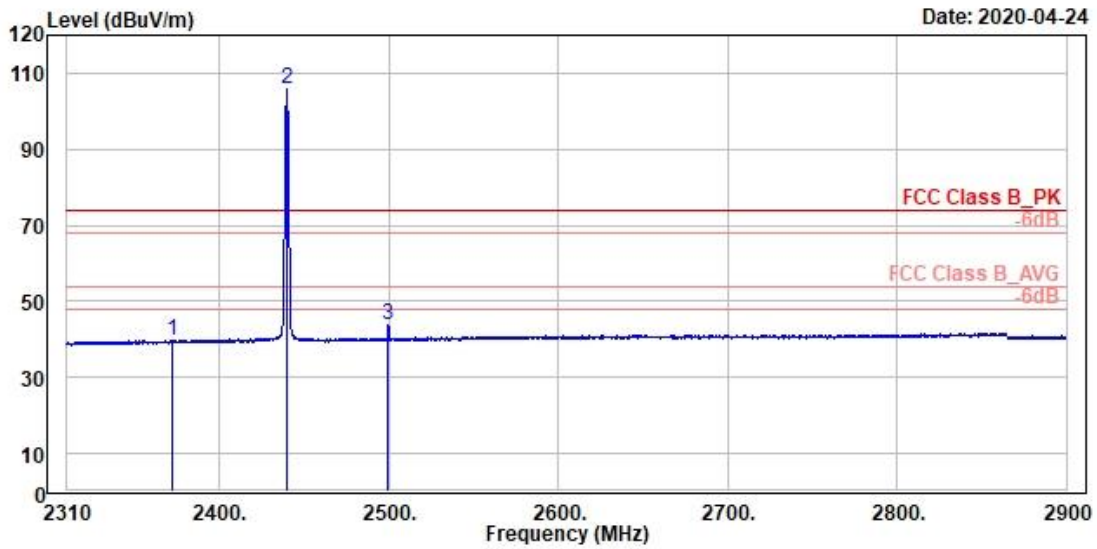
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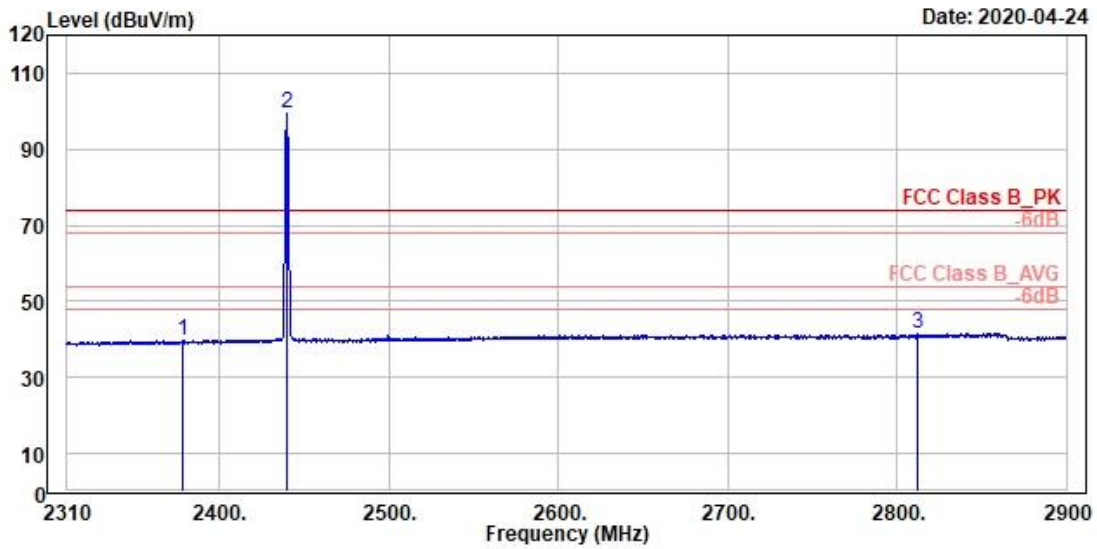
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1	2371.71	53.37	16.10	37.27	74.00	-20.63	376	25	Peak	Horizontal
2 *	2440.00	106.85	69.36	37.49	74.00	32.85	376	25	Peak	Horizontal
3	2860.35	54.64	16.52	38.12	74.00	-19.36	376	25	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2380.80	52.48	15.18	37.30	74.00	-21.52	285	263	Peak	Vertical
2 *	2440.00	100.61	63.12	37.49	74.00	26.61	285	263	Peak	Vertical
3	2638.75	54.91	17.03	37.88	74.00	-19.09	285	263	Peak	Vertical



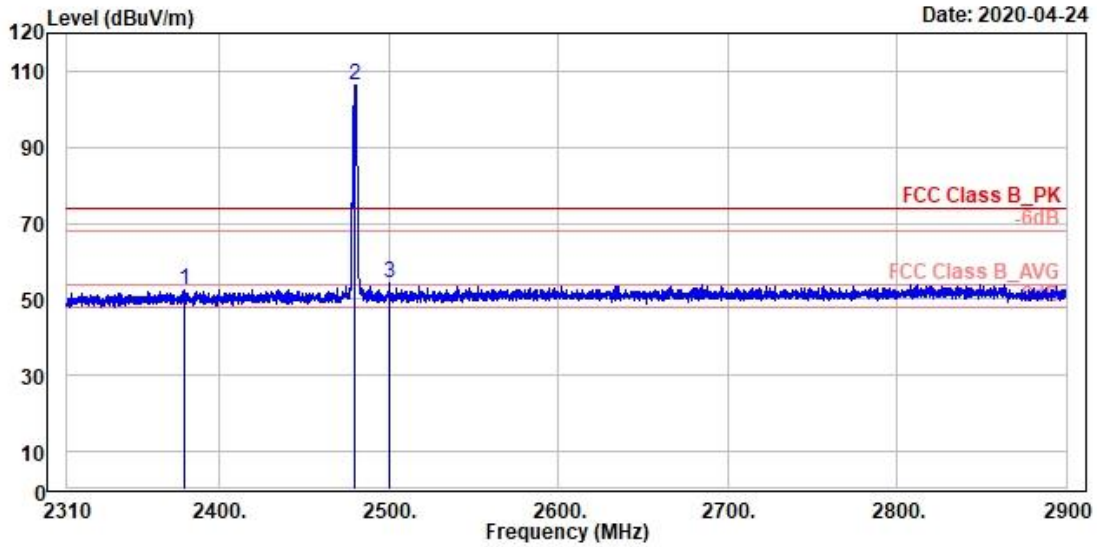
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1	2372.19	39.79	2.52	37.27	54.00	-14.21	376	25	Average	Horizontal
2 *	2440.00	105.83	68.34	37.49	54.00	51.83	376	25	Average	Horizontal
3	2499.63	43.64	6.06	37.58	54.00	-10.36	376	25	Average	Horizontal



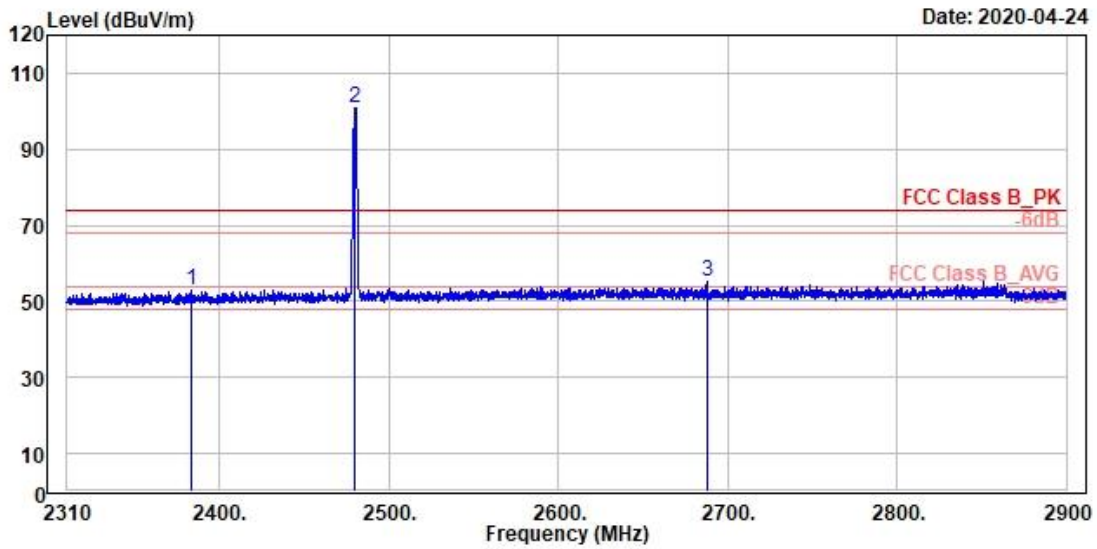
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1	2378.20	39.62	2.32	37.30	54.00	-14.38	285	263	Average	Vertical
2 *	2440.00	99.52	62.03	37.49	54.00	45.52	285	263	Average	Vertical
3	2812.33	41.49	3.55	37.94	54.00	-12.51	285	263	Average	Vertical



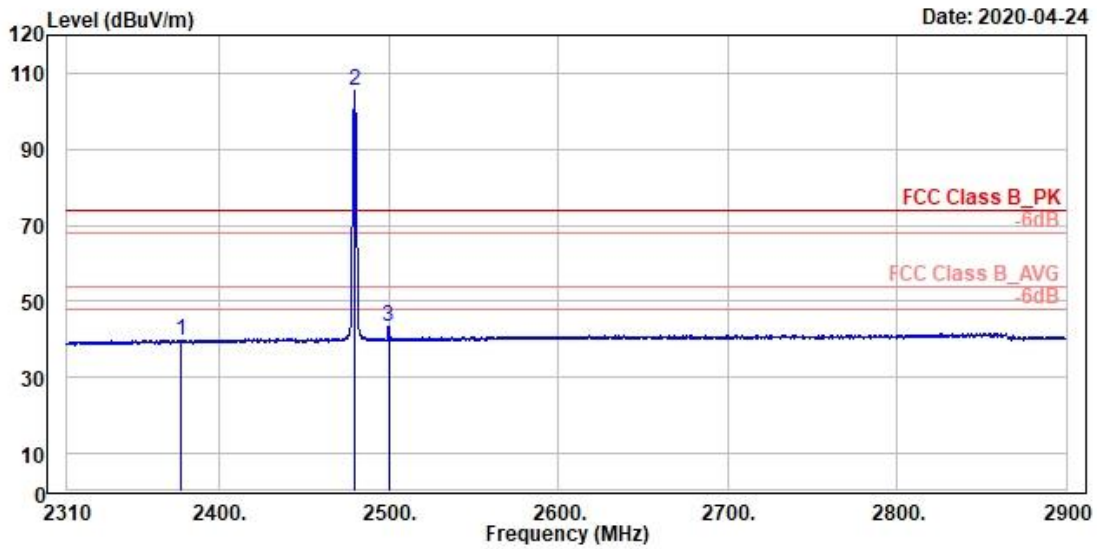
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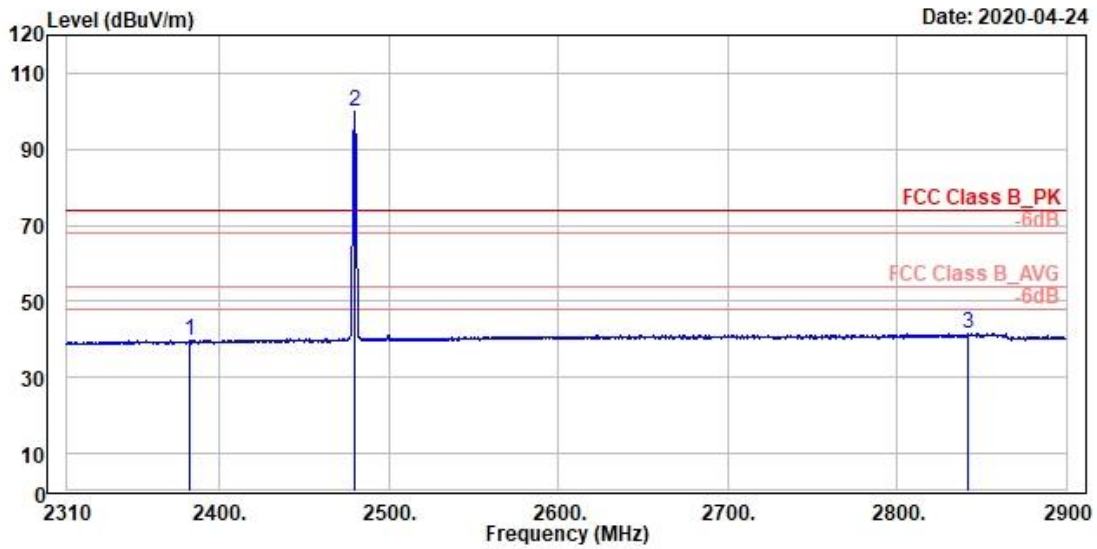
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1	2378.79	52.50	15.20	37.30	74.00	-21.50	361	29	Peak	Horizontal
2 *	2480.00	106.31	68.75	37.56	74.00	32.31	361	29	Peak	Horizontal
3	2500.45	54.09	16.51	37.58	74.00	-19.91	361	29	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2383.40	52.90	15.59	37.31	74.00	-21.10	281	266	Peak	Vertical
2 *	2480.00	100.79	63.23	37.56	74.00	26.79	281	266	Peak	Vertical
3	2687.84	54.99	17.18	37.81	74.00	-19.01	281	266	Peak	Vertical



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2377.50	39.74	2.45	37.29	54.00	-14.26	361	29	Average	Horizontal
2 *	2480.00	105.26	67.70	37.56	54.00	51.26	361	29	Average	Horizontal
3	2499.86	43.34	5.76	37.58	54.00	-10.66	361	29	Average	Horizontal



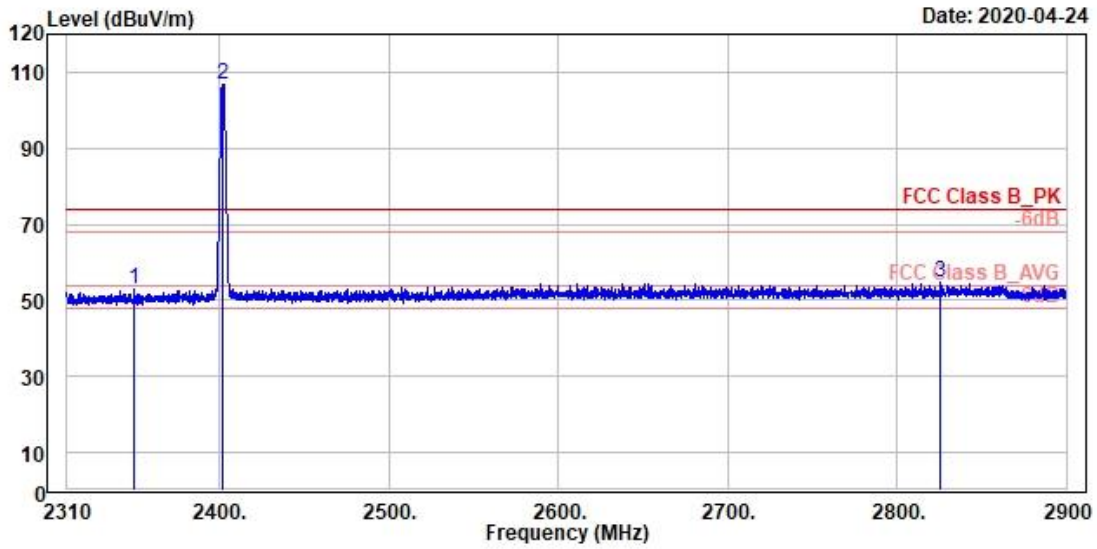
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1	2382.22	39.78	2.48	37.30	54.00	-14.22	281	266	Average	Vertical
2 *	2480.00	99.79	62.23	37.56	54.00	45.79	281	266	Average	Vertical
3	2842.53	41.49	3.44	38.05	54.00	-12.51	281	266	Average	Vertical

Spurious Emissions, Bandedge, BLE 2M

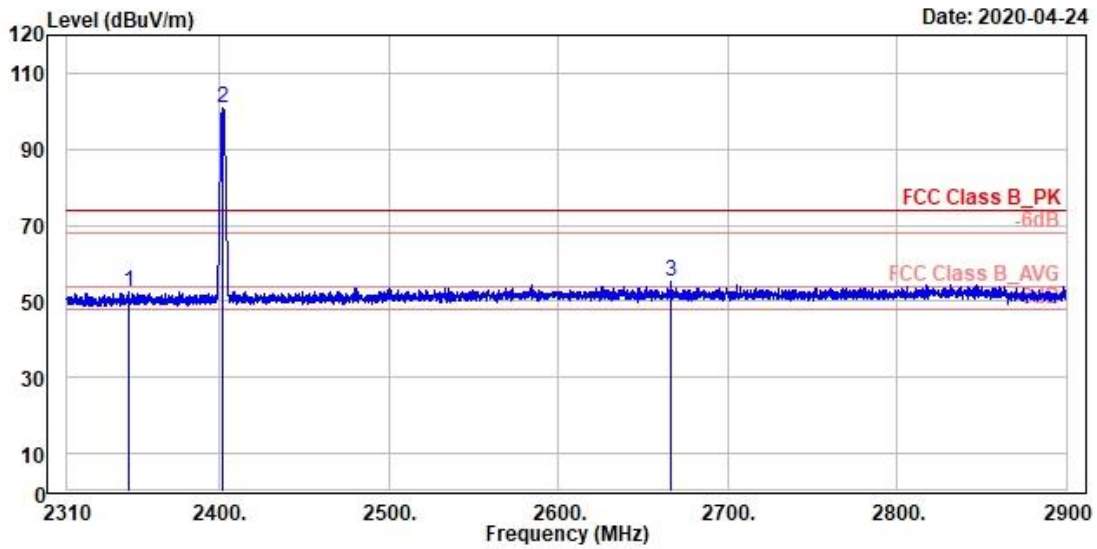
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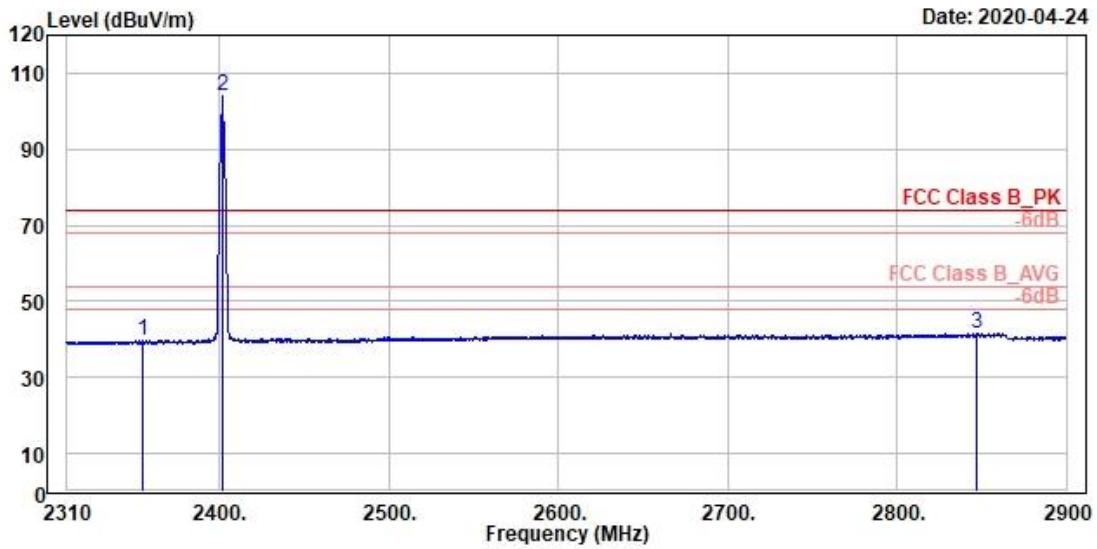
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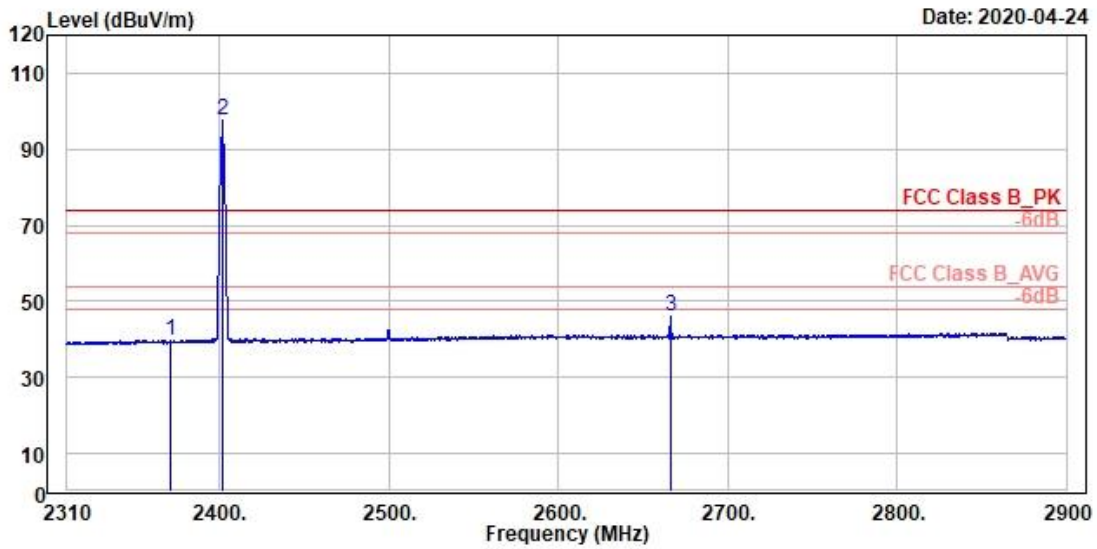
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2349.77	52.81	15.60	37.21	74.00	-21.19	275	19	Peak	Horizontal
2 *	2402.00	106.95	69.58	37.37	74.00	32.95	275	19	Peak	Horizontal
3	2825.42	54.53	16.54	37.99	74.00	-19.47	275	19	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2345.99	52.32	15.13	37.19	74.00	-21.68	382	43	Peak	Vertical
2 *	2402.00	100.66	63.29	37.37	74.00	26.66	382	43	Peak	Vertical
3	2666.24	55.05	17.22	37.83	74.00	-18.95	382	43	Peak	Vertical



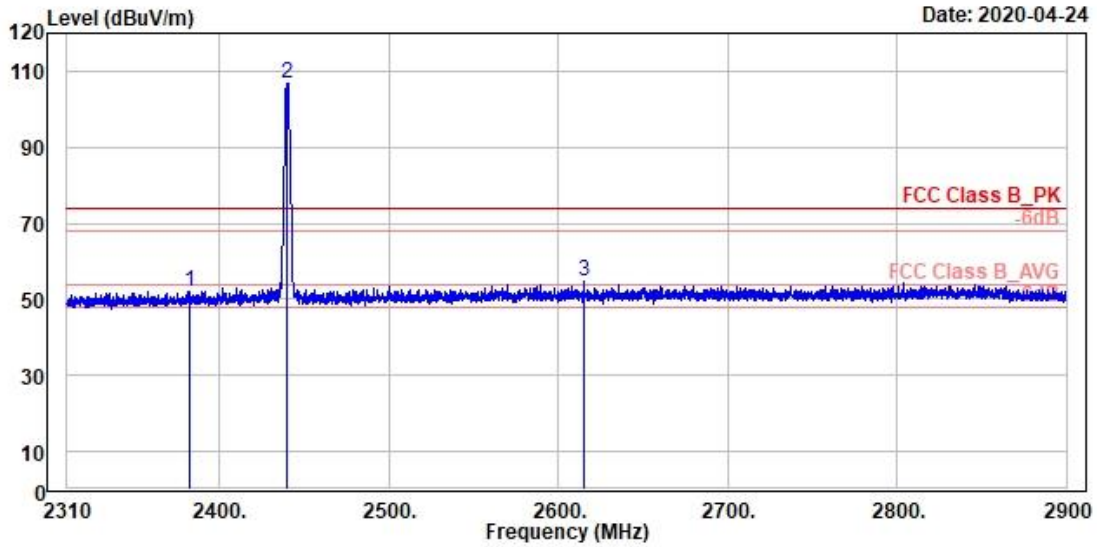
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1	2354.60	39.76	2.54	37.22	54.00	-14.24	275	19	Average	Horizontal
2 *	2402.00	103.95	66.58	37.37	54.00	49.95	275	19	Average	Horizontal
3	2847.49	41.46	3.41	38.05	54.00	-12.54	275	19	Average	Horizontal



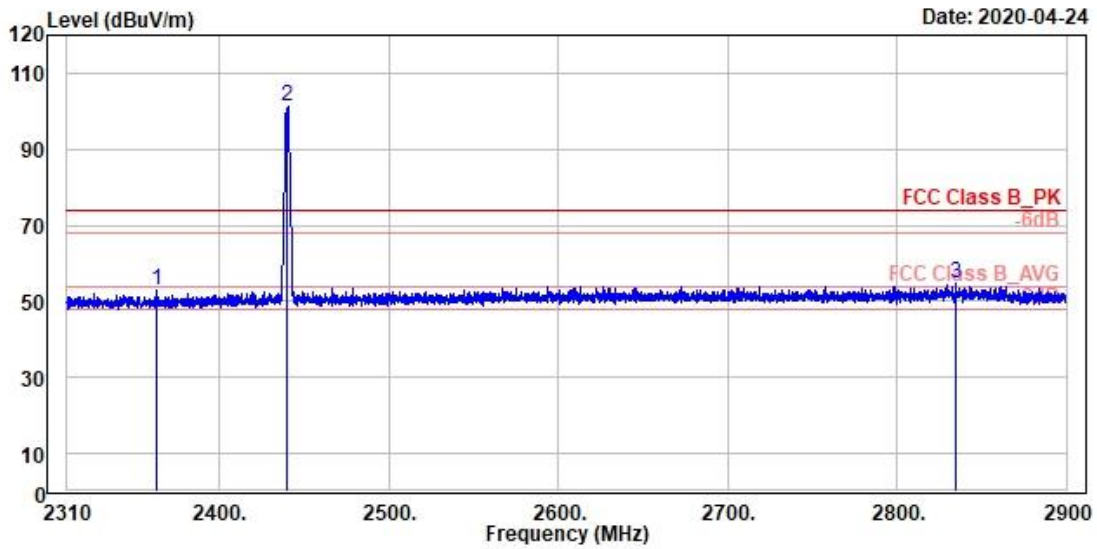
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2371.12	39.82	2.55	37.27	54.00	-14.18	382	43	Average	Vertical
2 *	2402.00	97.64	60.27	37.37	54.00	43.64	382	43	Average	Vertical
3	2666.60	46.18	8.35	37.83	54.00	-7.82	382	43	Average	Vertical



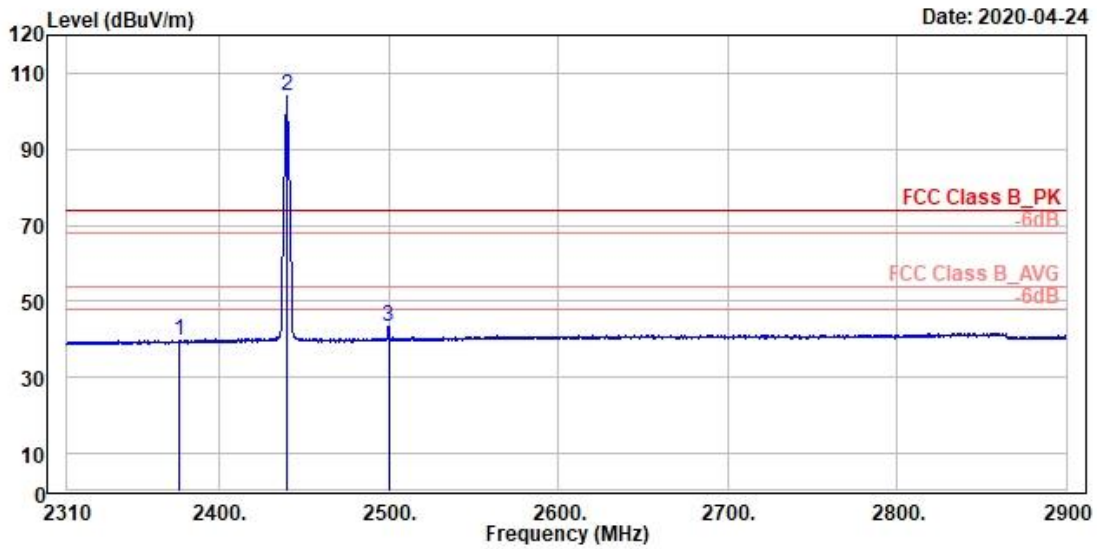
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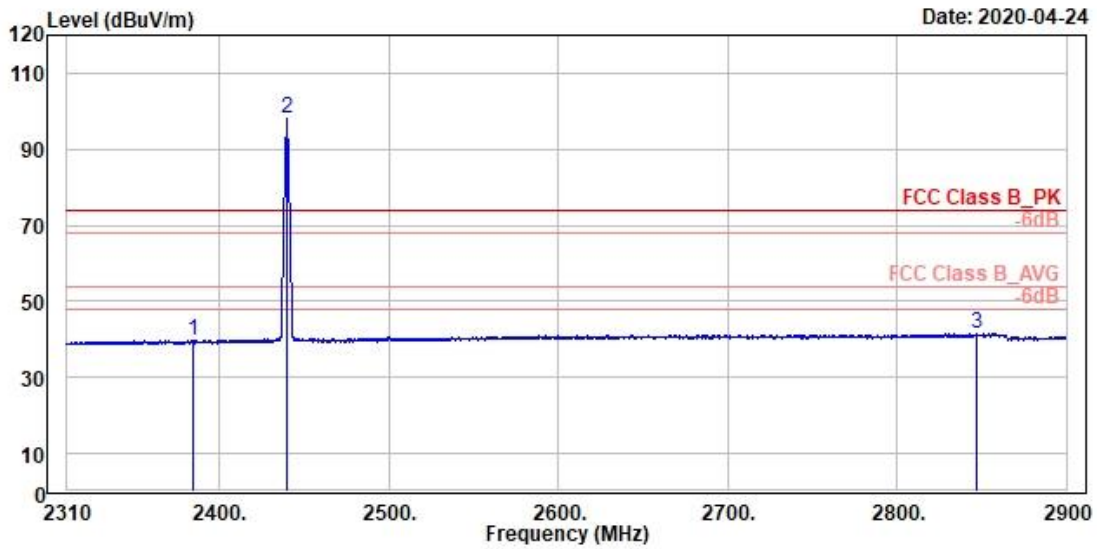
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2382.10	52.18	14.88	37.30	74.00	-21.82	376	24	Peak	Horizontal
2 *	2440.00	106.78	69.29	37.49	74.00	32.78	376	24	Peak	Horizontal
3	2615.03	54.68	16.73	37.95	74.00	-19.32	376	24	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2362.51	52.99	15.74	37.25	74.00	-21.01	285	266	Peak	Vertical
2 *	2440.00	101.13	63.64	37.49	74.00	27.13	285	266	Peak	Vertical
3	2834.51	54.77	16.75	38.02	74.00	-19.23	285	266	Peak	Vertical



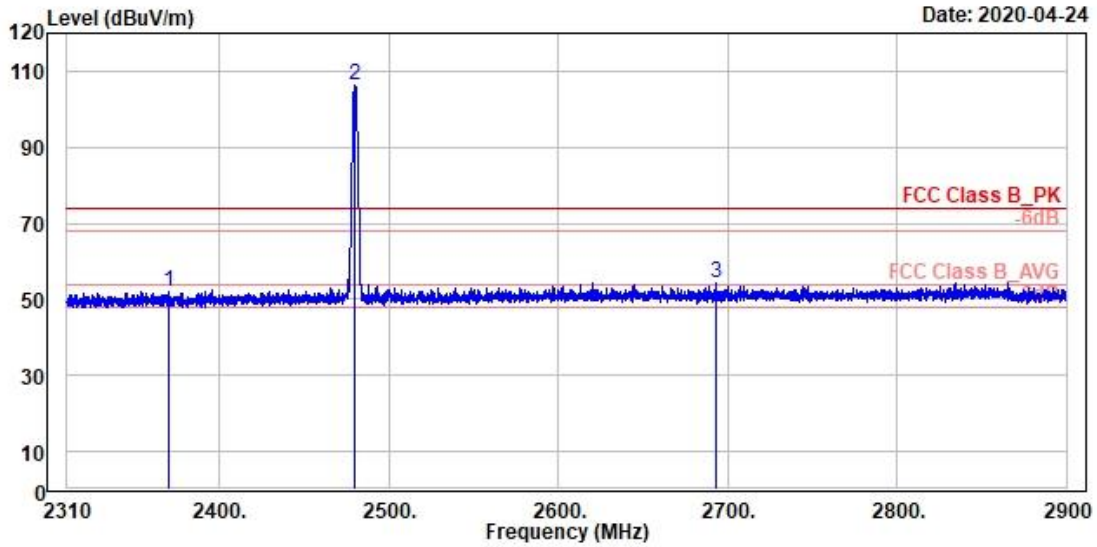
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1	2376.67	39.71	2.42	37.29	54.00	-14.29	376	24	Average	Horizontal
2 *	2440.00	103.82	66.33	37.49	54.00	49.82	376	24	Average	Horizontal
3	2499.86	43.31	5.73	37.58	54.00	-10.69	376	24	Average	Horizontal



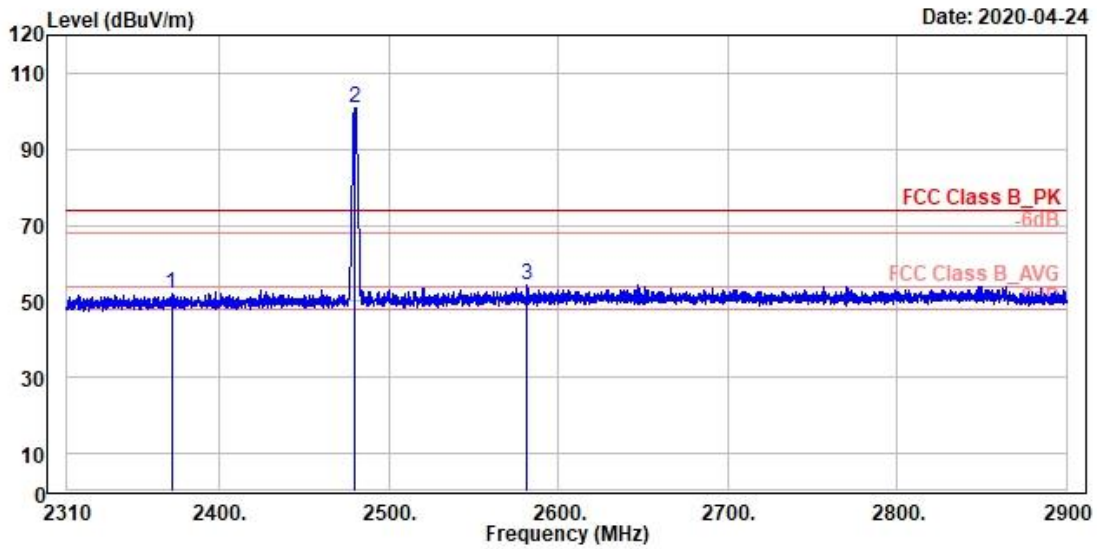
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1	2383.99	39.72	2.40	37.32	54.00	-14.28	285	266	Average	Vertical
2 *	2440.00	98.12	60.63	37.49	54.00	44.12	285	266	Average	Vertical
3	2847.49	41.50	3.45	38.05	54.00	-12.50	285	266	Average	Vertical



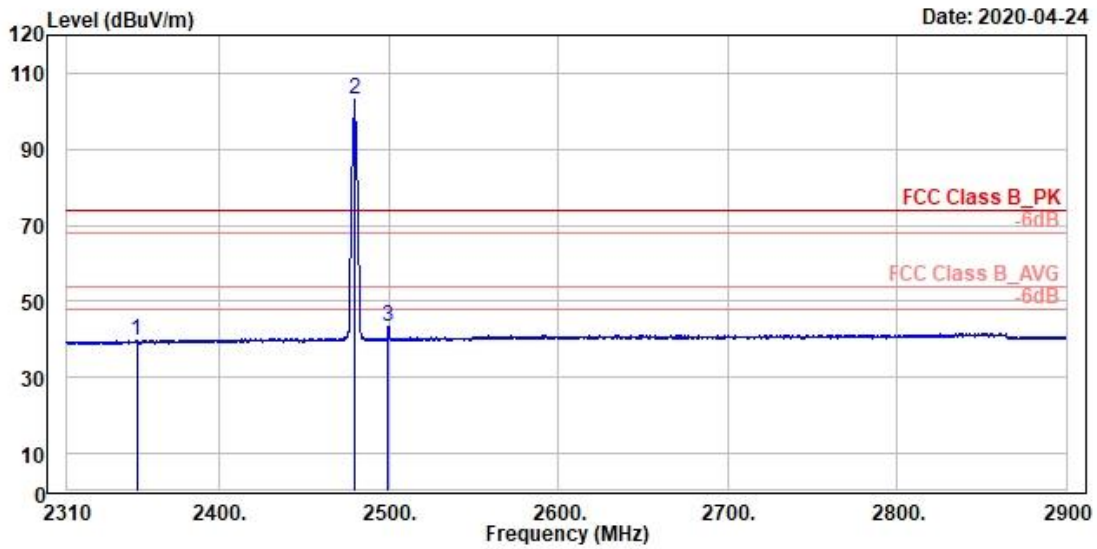
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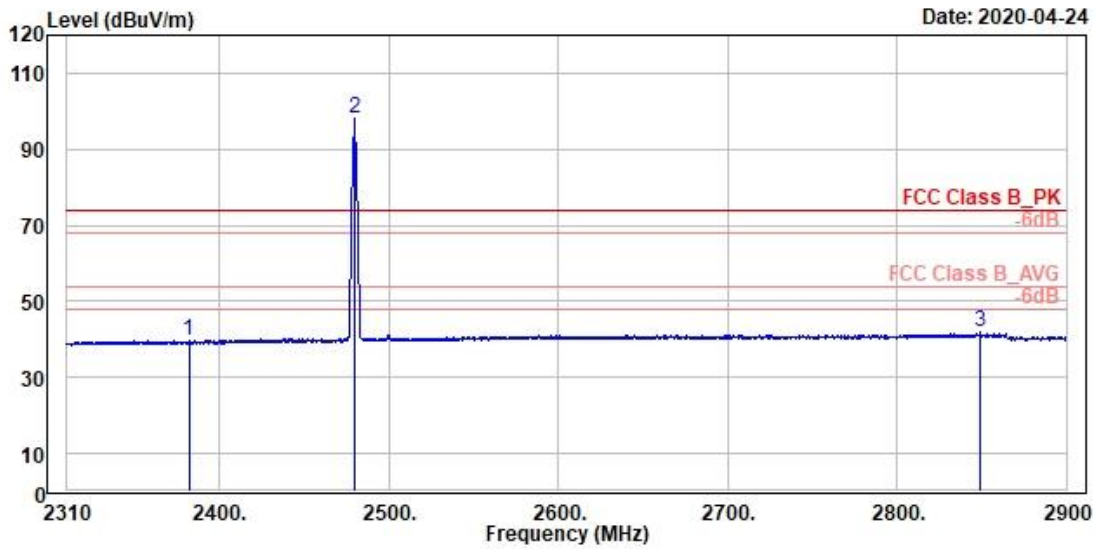
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1	2369.83	51.87	14.60	37.27	74.00	-22.13	362	30	Peak	Horizontal
2 *	2480.00	106.18	68.62	37.56	74.00	32.18	362	30	Peak	Horizontal
3	2692.79	54.39	16.59	37.80	74.00	-19.61	362	30	Peak	Horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2371.60	51.99	14.72	37.27	74.00	-22.01	281	266	Peak	Vertical
2 *	2480.00	100.83	63.27	37.56	74.00	26.83	281	266	Peak	Vertical
3	2581.16	54.15	16.22	37.93	74.00	-19.85	281	266	Peak	Vertical



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2351.06	39.91	2.70	37.21	54.00	-14.09	362	30	Average	Horizontal
2 *	2480.00	103.16	65.60	37.56	54.00	49.16	362	30	Average	Horizontal
3	2499.74	43.24	5.66	37.58	54.00	-10.76	362	30	Average	Horizontal



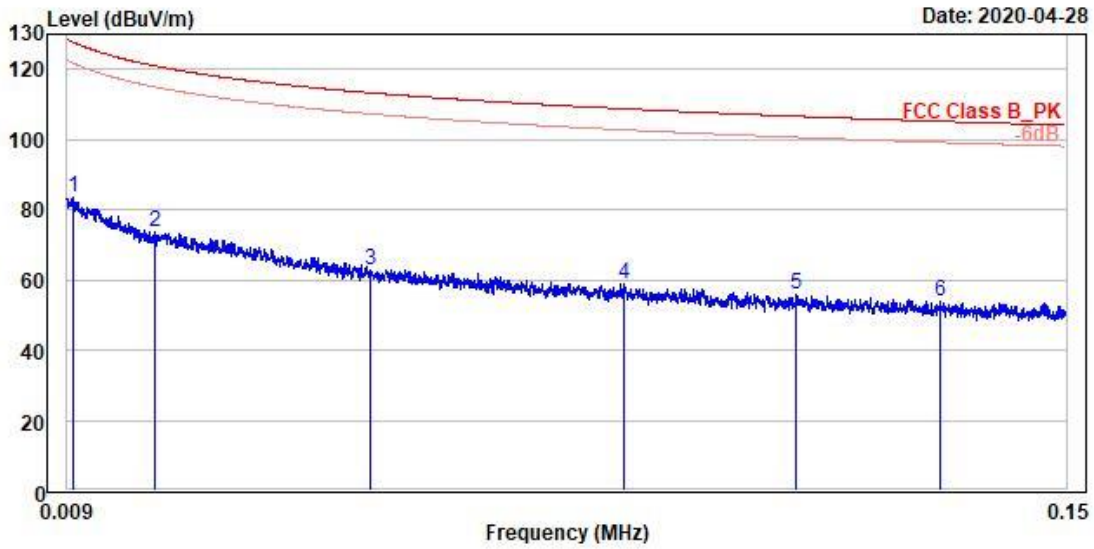
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2381.86	39.73	2.43	37.30	54.00	-14.27	281	266	Average	Vertical
2 *	2480.00	97.88	60.32	37.56	54.00	43.88	281	266	Average	Vertical
3	2849.26	41.84	3.78	38.06	54.00	-12.16	281	266	Average	Vertical

Spurious Emissions, TX Mode, 9kHz-30MHz, BLE 1M

2402MHz

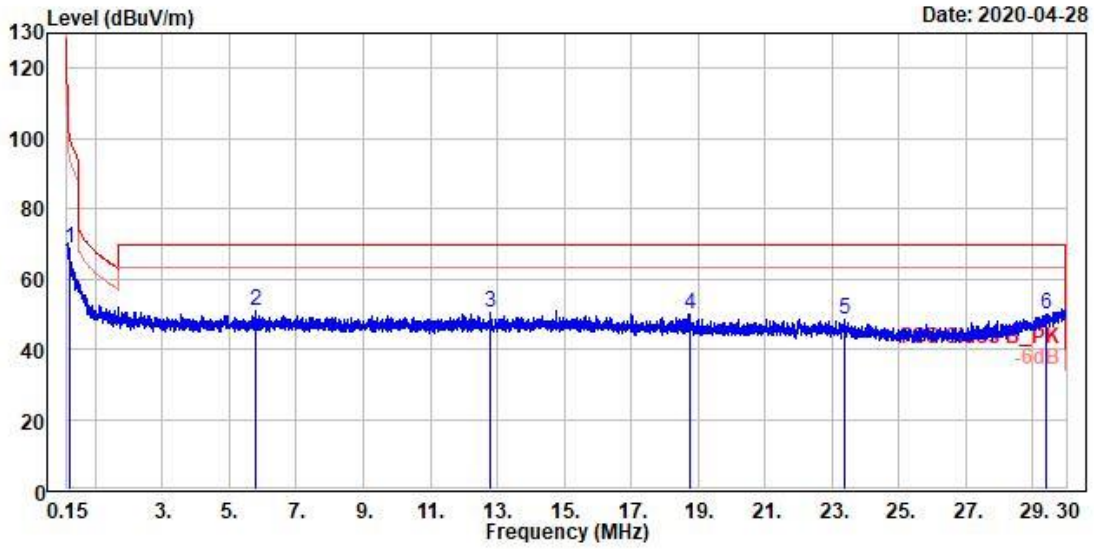


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Date: 2020-04-28

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	83.63	4.56	79.07	127.77	-44.14	100	228	QP	vertical
2	0.02	73.46	1.17	72.29	120.98	-47.52	100	0	QP	vertical
3	0.05	62.73	-2.06	64.79	113.30	-50.57	100	137	QP	vertical
4	0.09	58.66	-1.97	60.63	108.74	-50.08	100	359	QP	vertical
5	0.11	55.78	-2.78	58.56	106.62	-50.84	100	357	QP	vertical
6	0.13	53.92	-3.46	57.38	105.17	-51.25	100	262	QP	vertical



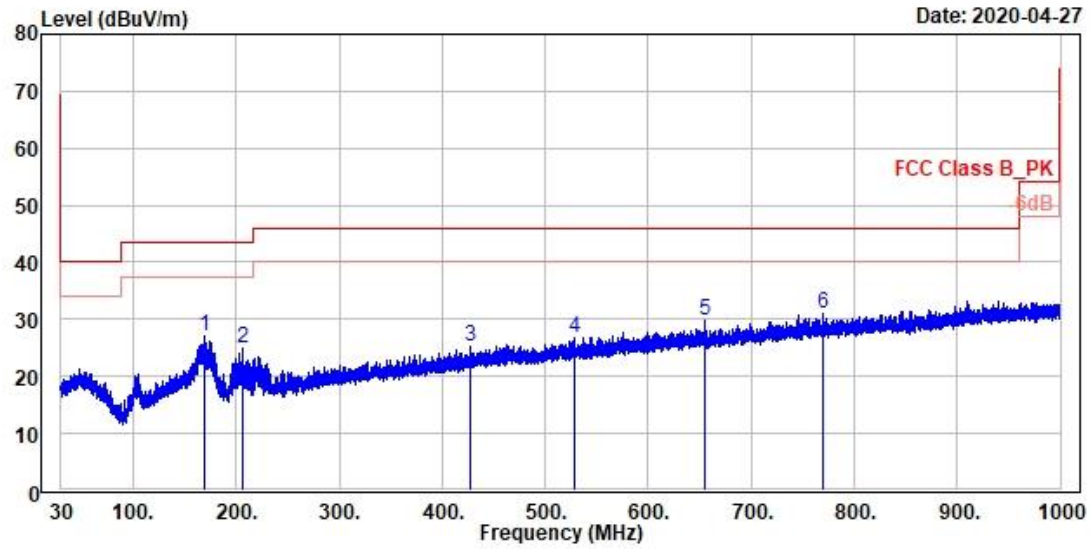
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.21	68.61	15.35	53.26	101.29	-32.68	100	196 QP		vertical
2	5.79	50.69	12.34	38.35	69.50	-18.81	100	355 QP		vertical
3	12.79	50.24	12.85	37.39	69.50	-19.26	100	250 QP		vertical
4	18.74	50.09	13.54	36.55	69.50	-19.41	100	63 QP		vertical
5	23.39	48.25	12.94	35.31	69.50	-21.25	100	355 QP		vertical
6	29.39	49.90	11.68	38.22	69.50	-19.60	100	125 QP		vertical

Spurious Emissions, TX Mode, 30MHz-1GHz, BLE 1M

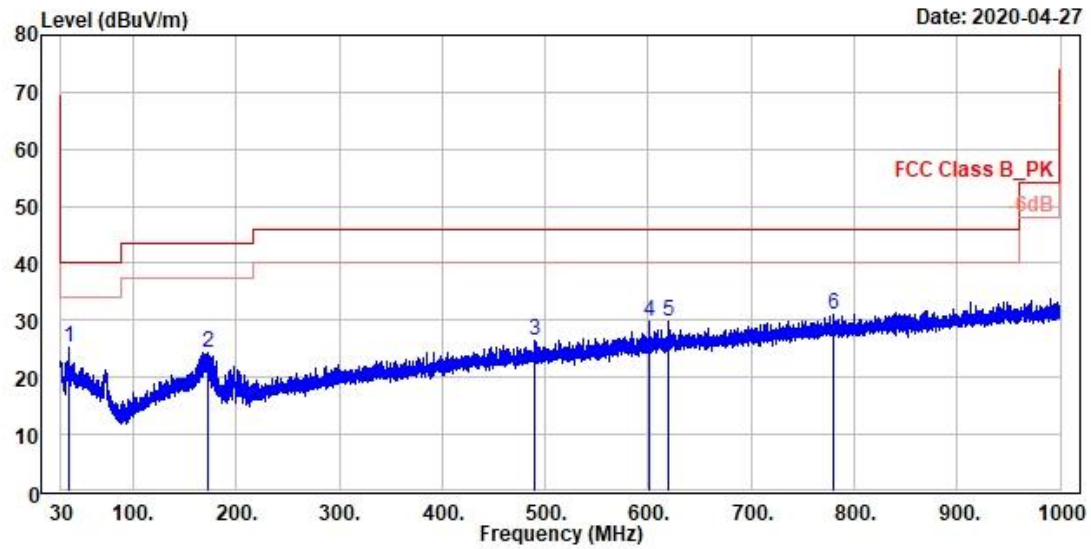
2402MHz



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	168.42	26.94	34.16	-7.22	43.50	-16.56	200	141	QP	horizontal
2	205.76	25.03	34.88	-9.85	43.50	-18.47	100	135	QP	horizontal
3	427.99	25.23	29.32	-4.09	46.00	-20.77	100	165	QP	horizontal
4	528.10	26.66	29.37	-2.71	46.00	-19.34	300	220	QP	horizontal
5	655.17	29.69	30.27	-0.58	46.00	-16.31	300	320	QP	horizontal
6	769.63	31.04	29.60	1.44	46.00	-14.96	400	6	QP	horizontal



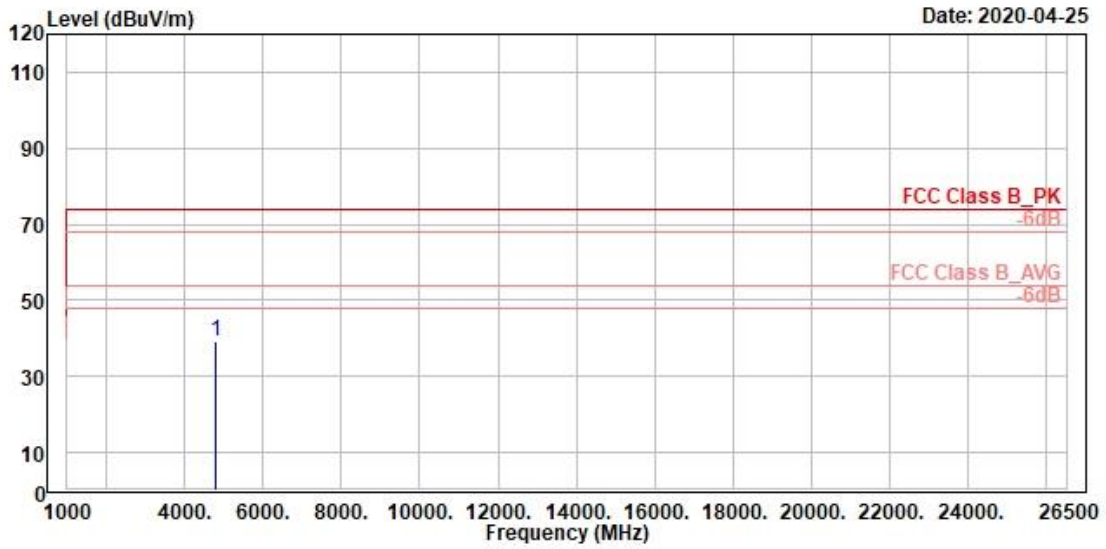
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	37.28	25.31	33.46	-8.15	40.00	-14.69	100	129	QP	vertical
2	171.81	24.38	31.80	-7.42	43.50	-19.12	200	95	QP	vertical
3	489.20	26.33	29.71	-3.38	46.00	-19.67	100	35	QP	vertical
4	601.23	29.74	31.04	-1.30	46.00	-16.26	300	100	QP	vertical
5	619.18	29.68	30.51	-0.83	46.00	-16.32	100	78	QP	vertical
6	779.42	31.13	29.61	1.52	46.00	-14.87	400	360	QP	vertical

Spurious Emissions, TX Mode, 1GHz-26.5GHz, BLE 1M

2402MHz

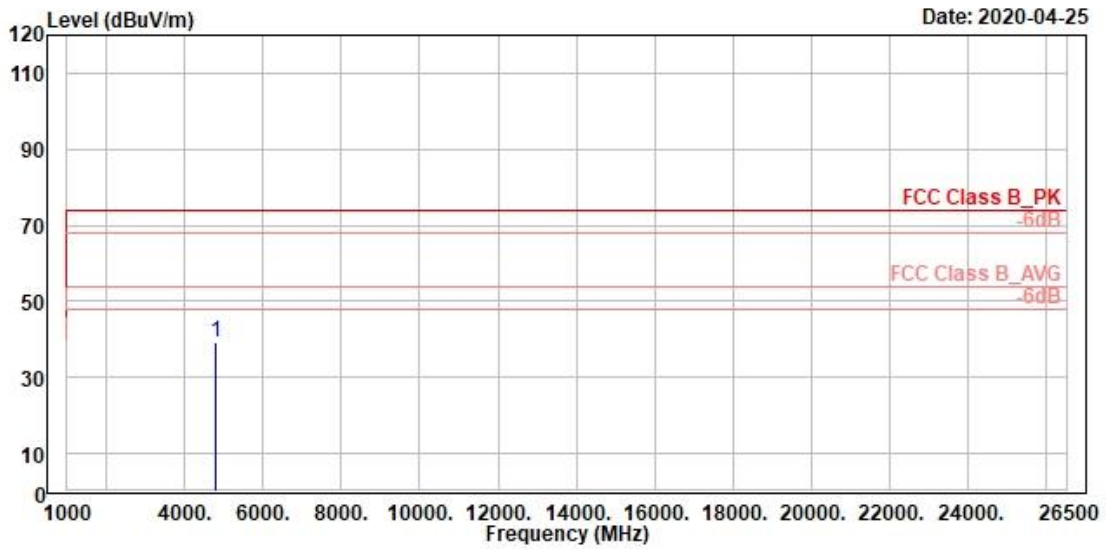


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Date: 2020-04-25

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	39.20	49.40	-10.20	74.00	-34.80	100	249	Peak	horizontal

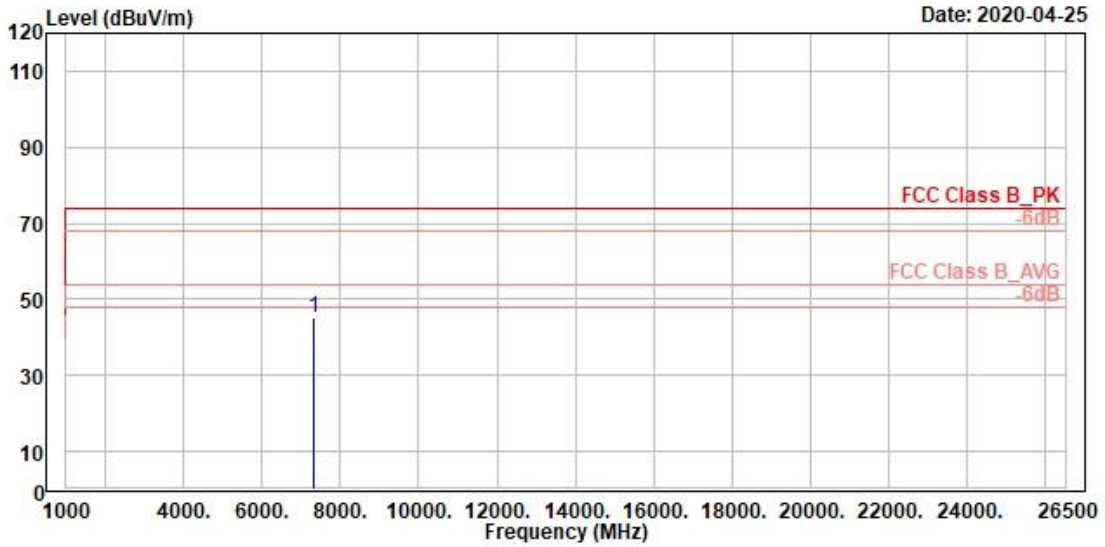


Date: 2020-04-25

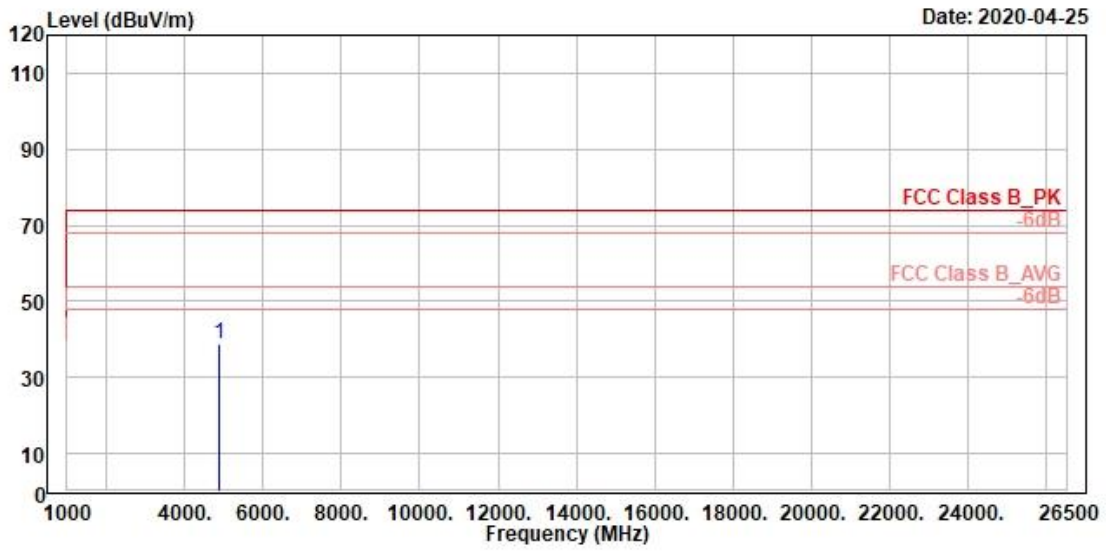
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	39.12	49.32	-10.20	74.00	-34.88	100	316	Peak	vertical



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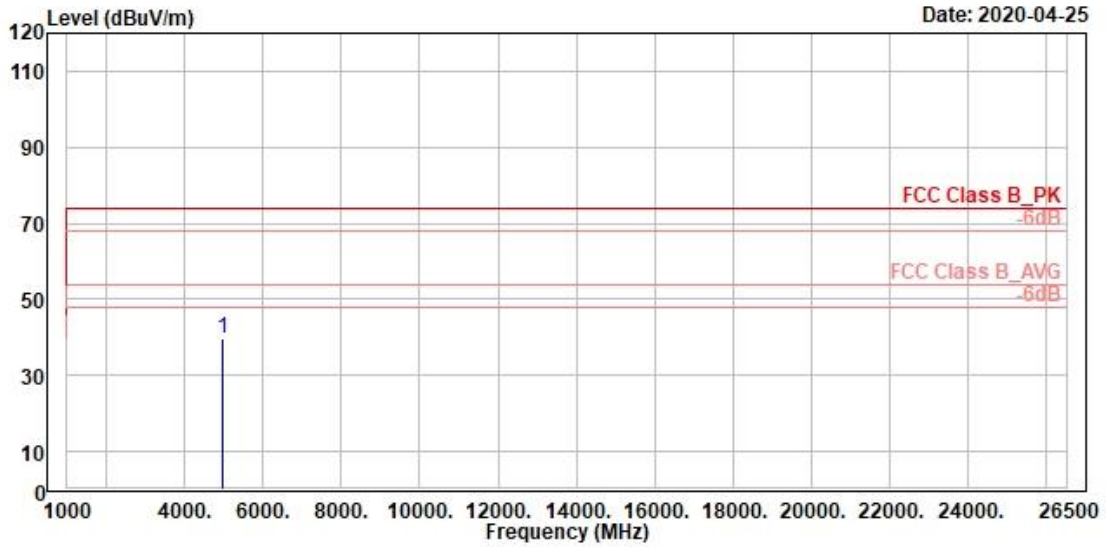
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7320.00	45.19	52.97	-7.78	74.00	-28.81	200	129	Peak	horizontal



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	38.76	48.82	-10.06	74.00	-35.24	300	346	Peak	vertical

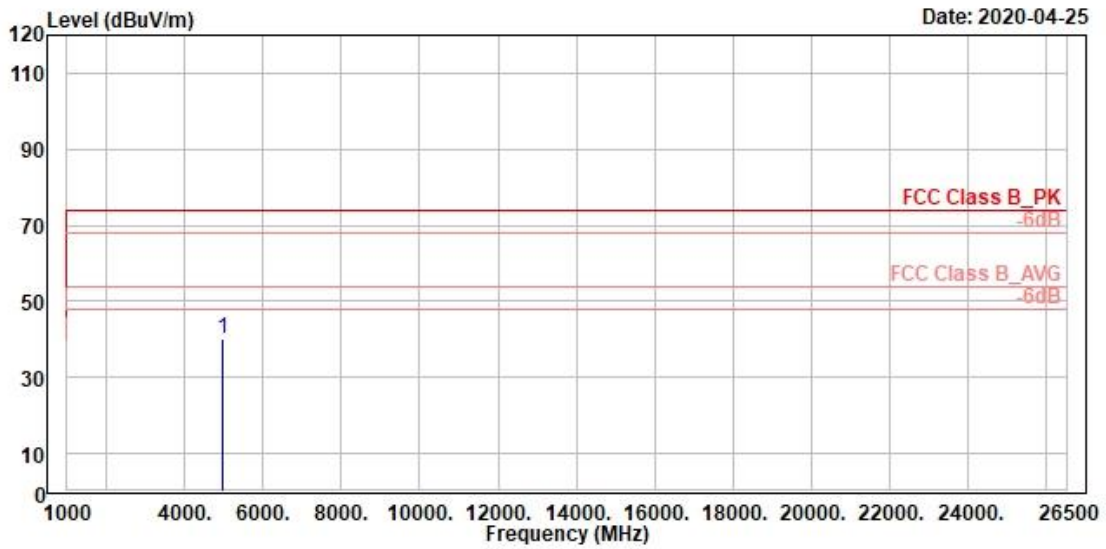


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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.00	39.75	49.51	-9.76	74.00	-34.25	282	0	Peak	horizontal



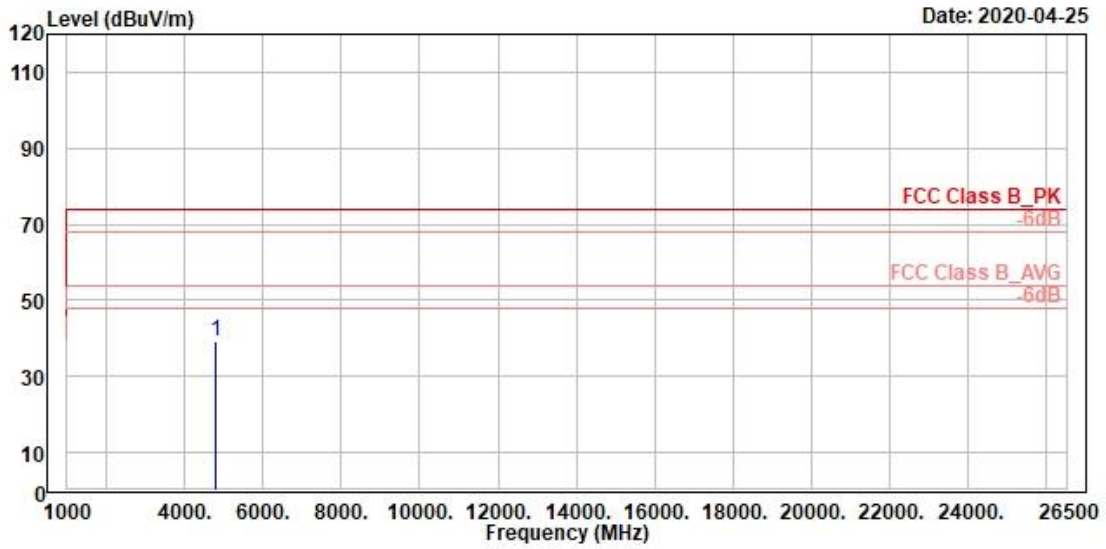
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.00	40.13	49.89	-9.76	74.00	-33.87	298	0	Peak	vertical

Spurious Emissions, TX Mode, 1GHz-26.5GHz, BLE 2M

2402MHz

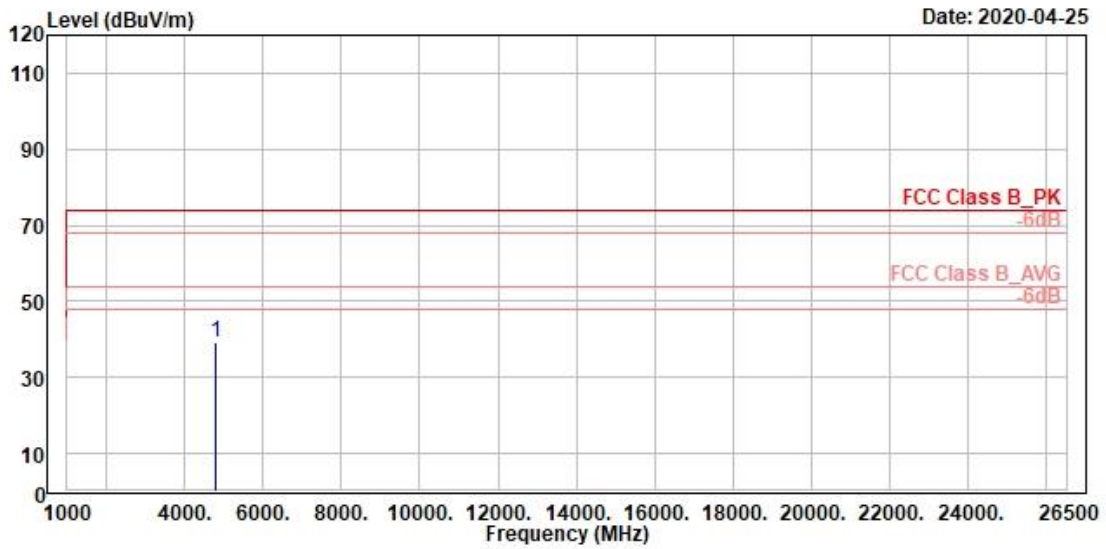


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Date: 2020-04-25

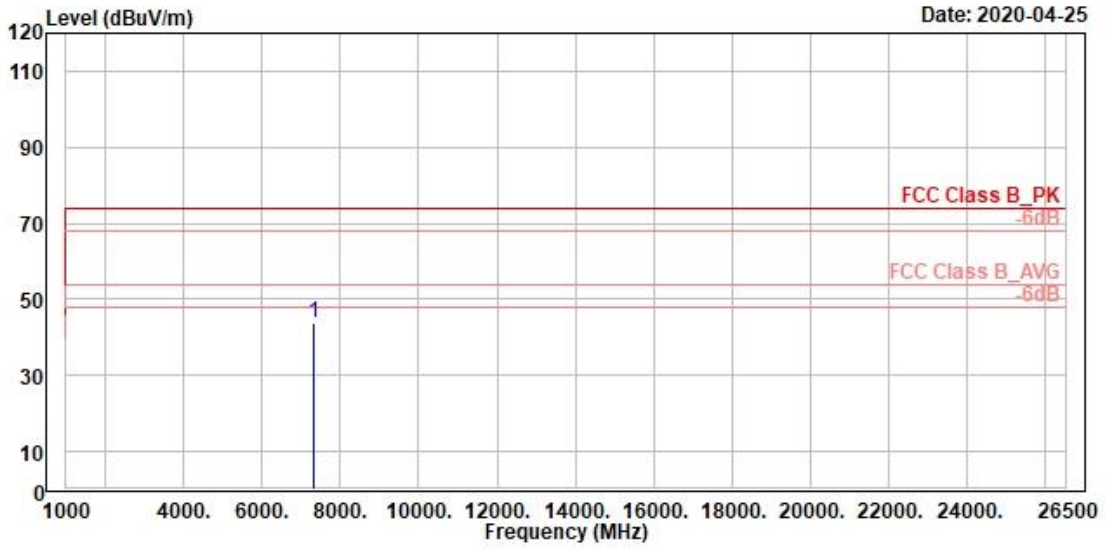
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	39.18	49.38	-10.20	74.00	-34.82	100	262	Peak	horizontal



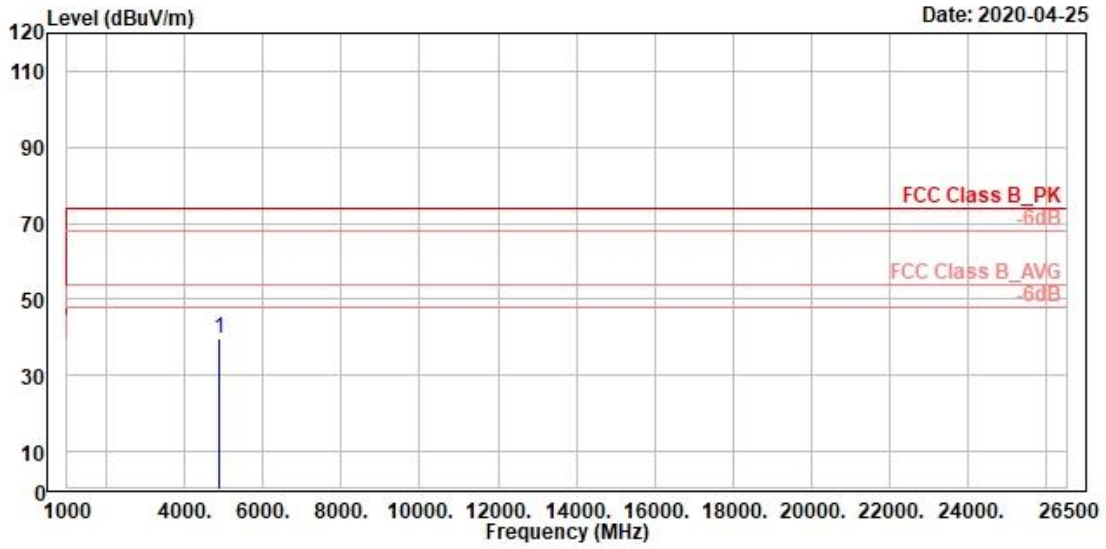
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	39.10	49.30	-10.20	74.00	-34.90	400	140	Peak	vertical



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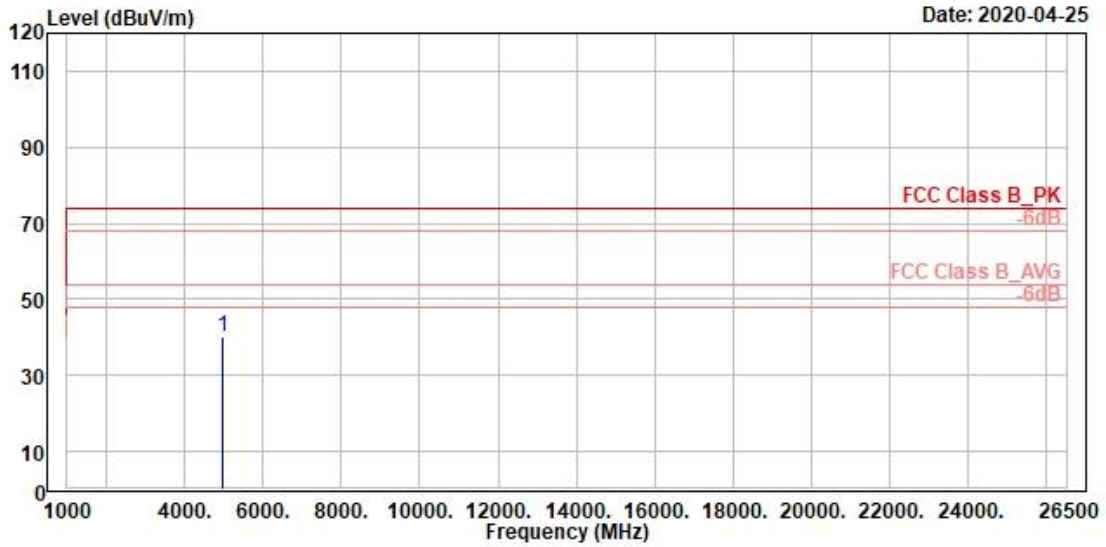
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7320.00	44.03	51.81	-7.78	74.00	-29.97	244	122	Peak	horizontal



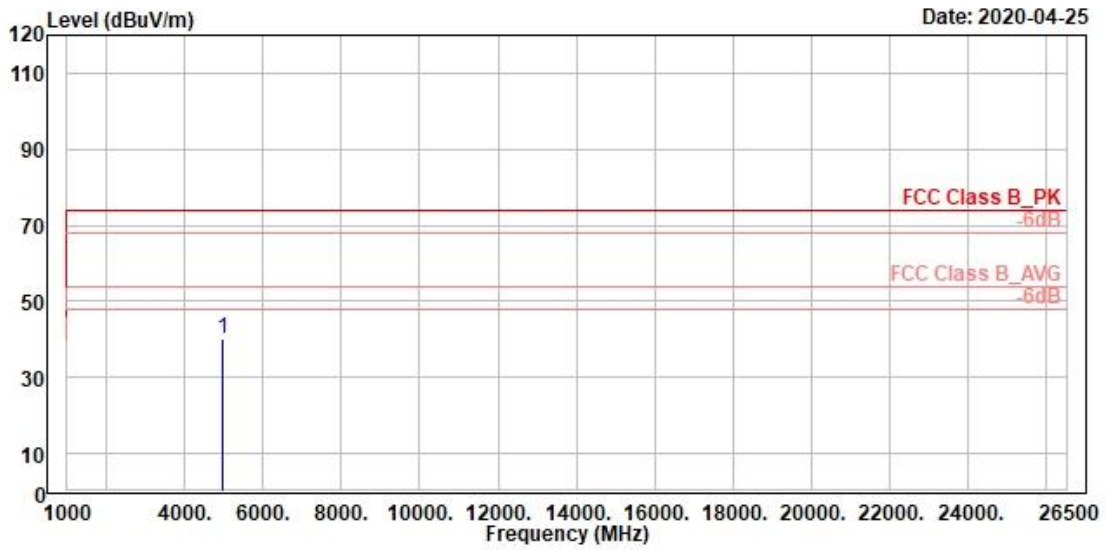
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	39.59	49.65	-10.06	74.00	-34.41	400	54	Peak	vertical



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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.00	40.12	49.88	-9.76	74.00	-33.88	200	126	Peak	horizontal



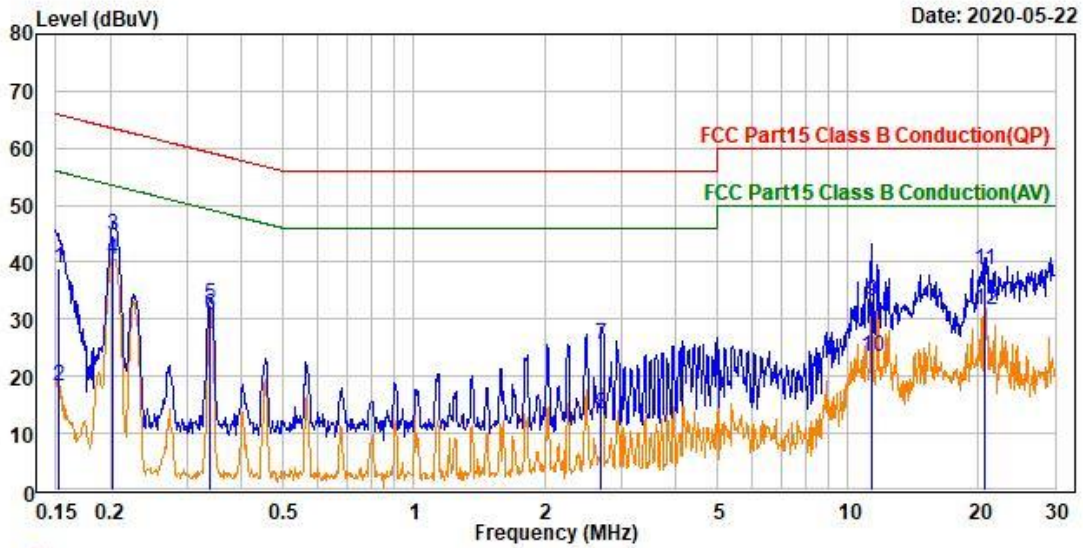
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.00	40.28	50.04	-9.76	74.00	-33.72	400	114	Peak	vertical

Spurious Emissions, AC Mains, BLE 1M

2402MHz

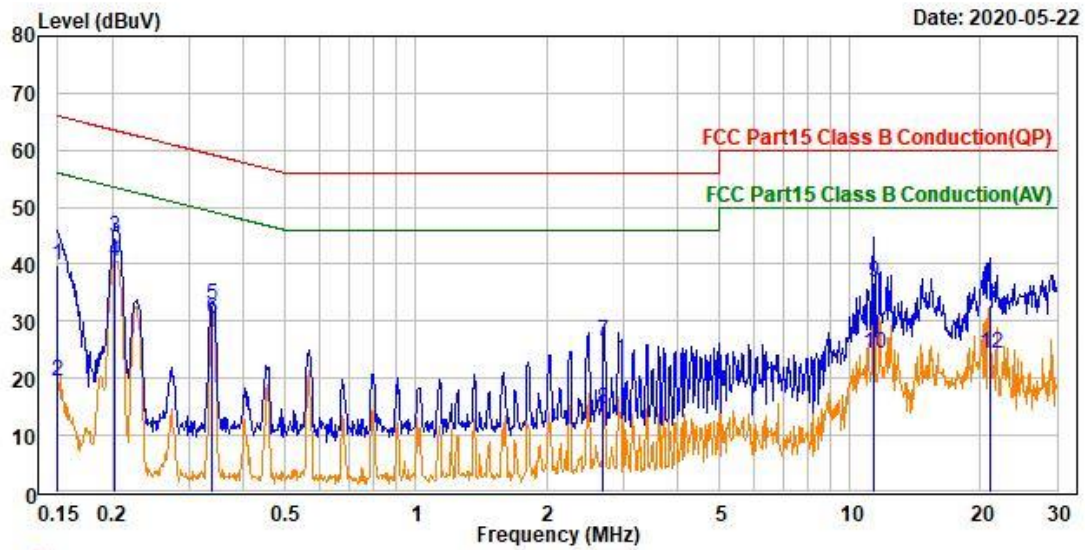


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Trace: 1

	Freq	Read Level	Factor	Level	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dB			
1	0.152	28.90	10.11	39.01	-26.91	QP	line1	
2	0.152	8.27	10.11	18.38	-37.54	Average	line1	
3	0.203	34.63	10.11	44.74	-18.73	QP	line1	
4	0.203	30.45	10.11	40.56	-12.91	Average	line1	
5	0.338	22.43	10.11	32.54	-26.71	QP	line1	
6	0.338	20.52	10.11	30.63	-18.62	Average	line1	
7	2.701	15.38	10.18	25.56	-30.44	QP	line1	
8	2.701	3.27	10.18	13.45	-32.55	Average	line1	
9	11.350	22.74	10.40	33.14	-26.86	QP	line1	
10	11.350	13.03	10.40	23.43	-26.57	Average	line1	
11	20.643	28.22	10.56	38.78	-21.22	QP	line1	
12	20.643	20.99	10.56	31.55	-18.45	Average	line1	



Trace: 1

	Read	Over					
Freq	Level	Factor	Level	Limit	Remark	Pol/Phase	Note
MHz	dBuV	dB	dBuV	dB			
1	0.150	29.89	10.11	40.00	-26.00	QP	neutral
2	0.150	9.33	10.11	19.44	-36.56	Average	neutral
3	0.203	34.54	10.11	44.65	-18.82	QP	neutral
4	0.203	30.35	10.11	40.46	-13.01	Average	neutral
5	0.340	22.84	10.10	32.94	-26.27	QP	neutral
6	0.340	20.25	10.10	30.35	-18.86	Average	neutral
7	2.701	16.44	10.17	26.61	-29.39	QP	neutral
8	2.701	4.47	10.17	14.64	-31.36	Average	neutral
9	11.350	26.42	10.40	36.82	-23.18	QP	neutral
10	11.350	13.90	10.40	24.30	-25.70	Average	neutral
11	21.059	22.15	10.58	32.73	-27.27	QP	neutral
12	21.059	13.83	10.58	24.41	-25.59	Average	neutral