

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

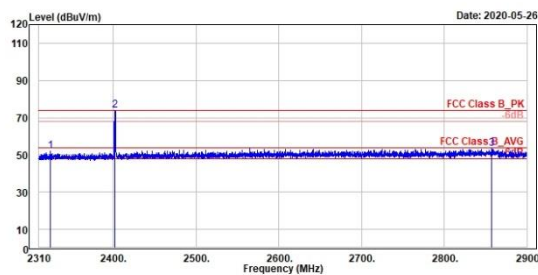
Band Edges, 2.31GHz ~ 2.9GHz

GFSK

Low Channel (Horizontal) Peak



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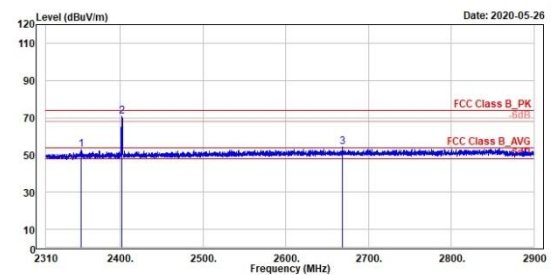


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2323.69	51.88	14.75	37.13	74.00	-22.12	280	348	Peak	Horizontal	
2	2402.00	73.87	36.50	37.37	74.00	-0.13	280	348	Peak	Horizontal	
3	2857.76	53.56	15.46	38.10	74.00	-20.44	280	348	Peak	Horizontal	

Low Channel (Vertical) Peak



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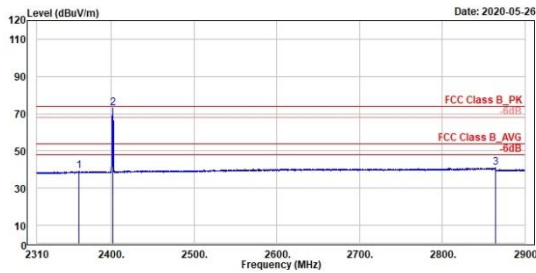
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2353.07	52.72	15.50	37.22	74.00	-21.28	314	266	Peak	Vertical	
2	2402.00	70.57	33.20	37.37	74.00	-3.43	314	266	Peak	Vertical	
3	2668.72	54.15	16.32	37.83	74.00	-19.85	314	266	Peak	Vertical	

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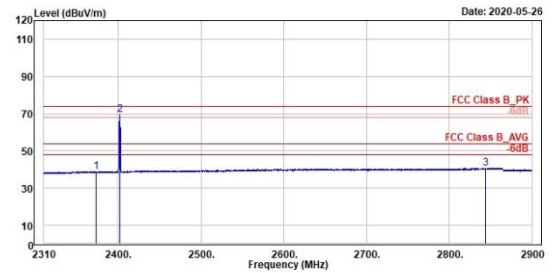
Low Channel (Horizontal) Average



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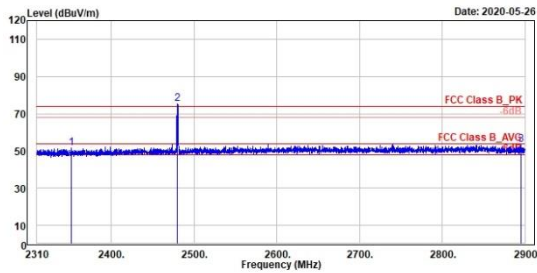


GFSK

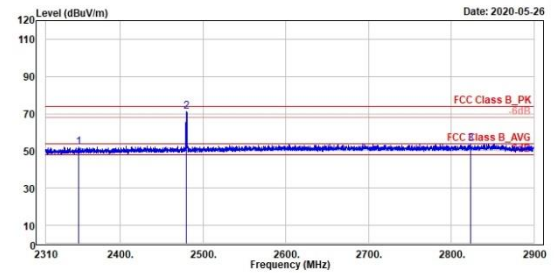
High Channel (Horizontal) Peak



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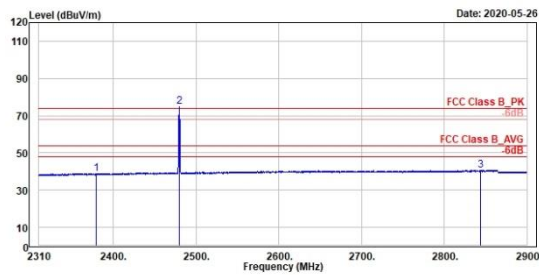


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High Channel (Horizontal) Average



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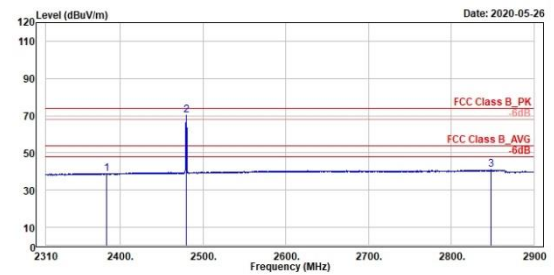


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2378.91	38.96	1.66	37.30	54.00	-15.04	239	9	Average	Horizontal	
2 *	2488.00	74.65	37.09	37.56	54.00	20.65	239	9	Average	Horizontal	
3	2844.54	40.74	2.69	38.05	54.00	-13.26	239	9	Average	Horizontal	

High Channel (Vertical) Average



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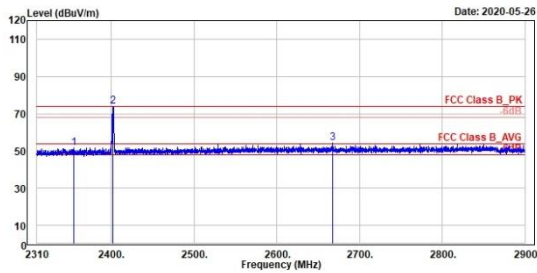
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.92	38.99	1.68	37.31	54.00	-15.01	324	88	Average	Vertical	
2 *	2488.00	70.33	32.77	37.56	54.00	16.33	324	88	Average	Vertical	
3	2847.96	40.64	2.78	38.06	54.00	-13.16	324	88	Average	Vertical	

8DPSK

Low Channel (Horizontal) Peak



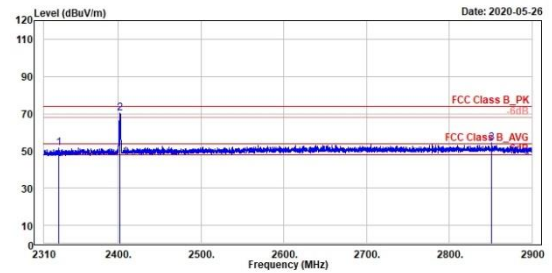
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2354.96	51.79	14.57	37.22	74.00	-22.21	278	349	Peak	Horizontal		
2	2482.00	73.97	36.60	37.37	74.00	-0.03	278	349	Peak	Horizontal		
3	2668.01	54.08	16.26	37.82	74.00	-19.92	278	349	Peak	Horizontal		



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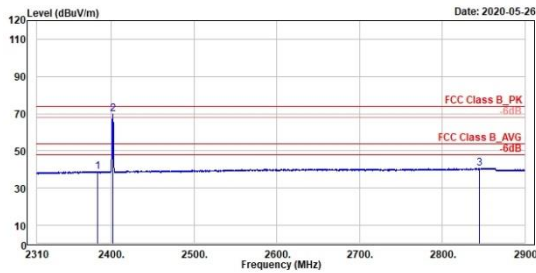
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2328.05	51.47	14.33	37.14	74.00	-22.53	314	267	Peak	Vertical		
2	2482.00	70.29	32.92	37.37	74.00	-3.71	314	267	Peak	Vertical		
3	2851.27	54.35	16.27	38.08	74.00	-19.65	314	267	Peak	Vertical		

8DPSK

Low Channel (Horizontal) Average



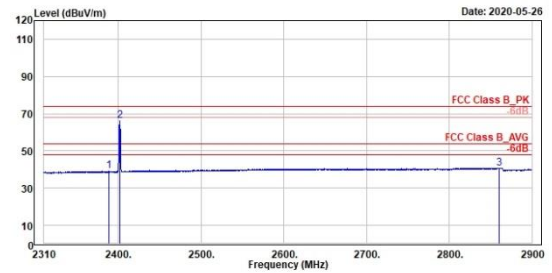
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.51	38.92	1.61	37.31	54.00	-15.08	278	349	Average	Horizontal	
2 *	2482.00	69.60	32.23	37.37	54.00	15.60	278	349	Average	Horizontal	
3	2844.78	40.79	2.74	38.05	54.00	-13.21	278	349	Average	Horizontal	



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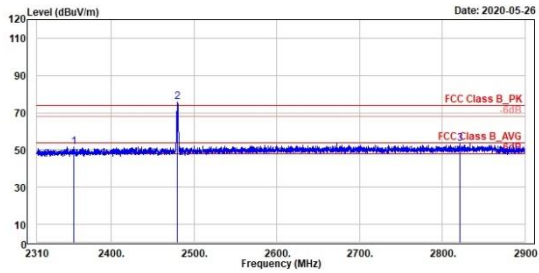
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.59	39.04	1.71	37.33	54.00	-14.96	314	267	Average	Vertical	
2 *	2482.00	66.01	28.64	37.37	54.00	12.01	314	267	Average	Vertical	
3	2868.71	40.80	2.68	38.12	54.00	-13.20	314	267	Average	Vertical	

8DPSK

High Channel (Horizontal) Peak



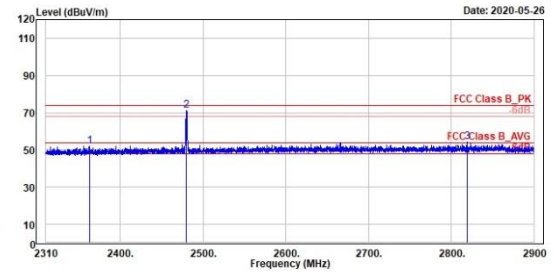
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2355.00	51.43	14.21	37.22	74.00	-22.57	239	9	Peak	Horizontal		
2 *	2480.00	75.53	37.97	37.56	74.00	1.53	239	9	Peak	Horizontal		
3	2821.18	53.37	15.40	37.97	74.00	-20.63	239	9	Peak	Horizontal		



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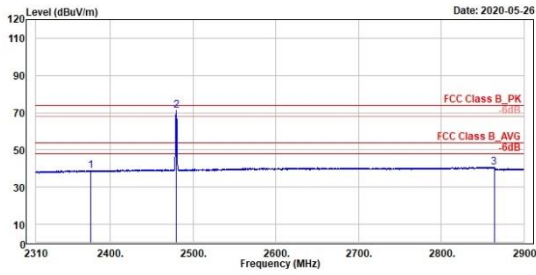
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2362.39	51.97	14.73	37.24	74.00	-22.03	324	88	Peak	Vertical		
2 !	2480.00	71.14	33.58	37.56	74.00	-2.86	324	88	Peak	Vertical		
3	2819.05	54.35	16.38	37.97	74.00	-19.65	324	88	Peak	Vertical		

8DPSK

High Channel (Horizontal) Average



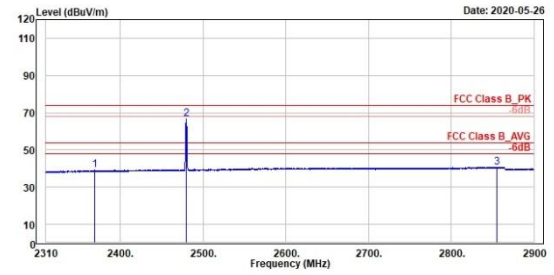
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High Channel (Vertical) Average



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Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

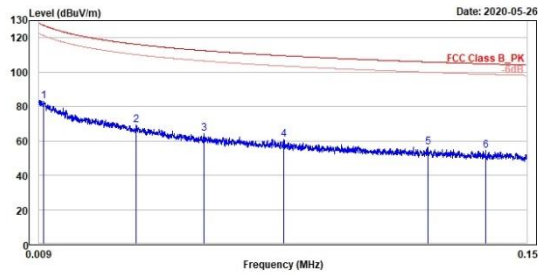
8DPSK

Middle Channel 9kHz~150kHz

Middle Channel 150kHz~30MHz



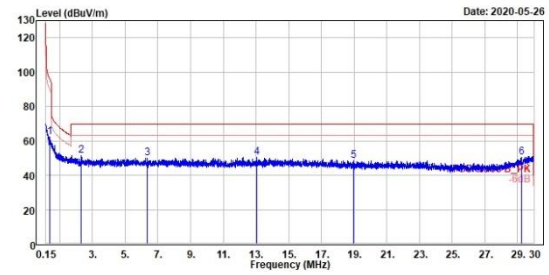
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	82.82	4.25	78.57	127.22	-44.48	100	269	QP	vertical		
2	0.04	69.03	0.58	68.45	116.18	-47.15	100	12	QP	vertical		
3	0.06	64.18	0.08	64.10	112.51	-48.33	100	304	QP	vertical		
4	0.08	60.69	-0.58	61.27	109.55	-48.86	100	98	QP	vertical		
5	0.12	56.45	-1.56	58.01	105.92	-49.47	100	89	QP	vertical		
6	0.14	54.20	-2.84	57.04	104.79	-50.59	100	31	QP	vertical		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.37	62.28	13.25	49.03	96.29	-34.01	100	153	QP	vertical		
2	2.33	51.20	12.65	38.55	69.50	-18.30	100	324	QP	vertical		
3	6.35	49.85	11.50	38.35	69.50	-19.65	100	21	QP	vertical		
4	13.06	50.59	13.17	37.42	69.50	-18.91	100	296	QP	vertical		
5	18.99	48.44	11.99	36.45	69.50	-21.06	100	247	QP	vertical		
6	29.24	50.34	12.49	37.85	69.50	-19.16	100	0	QP	vertical		

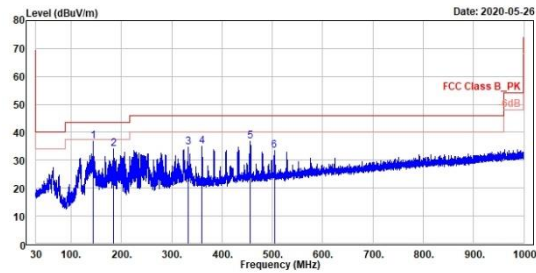
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

8DPSK

Middle Channel (Horizontal)



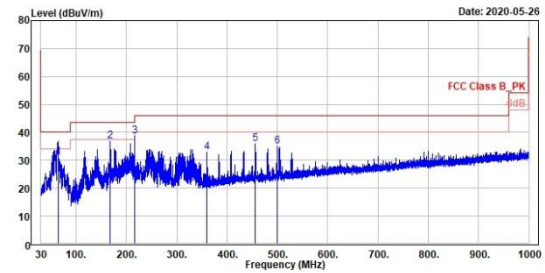
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	144.07	36.70	44.35	-7.65	43.50	-6.00	300	214	QP	horizontal		
2	184.62	33.95	43.07	-9.12	43.50	-9.55	200	22	QP	horizontal		
3	332.45	34.70	40.46	-5.76	46.00	-11.30	100	40	QP	horizontal		
4	360.09	34.95	40.48	-5.53	46.00	-11.05	100	185	QP	horizontal		
5	456.02	36.70	40.36	-3.66	46.00	-9.30	200	123	QP	horizontal		
6	504.04	33.45	36.55	-3.10	46.00	-12.55	200	184	QP	horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	63.95	31.01	39.88	-8.87	40.00	-8.99	100	323	QP	vertical		
2	168.03	36.79	44.00	-7.21	43.50	-6.71	100	73	QP	vertical		
3	216.05	38.74	48.43	-9.69	46.00	-7.26	100	114	QP	vertical		
4	359.99	32.96	38.49	-5.53	46.00	-13.04	100	163	QP	vertical		
5	456.02	36.04	39.70	-3.66	46.00	-9.96	100	170	QP	vertical		
6	499.38	34.99	38.20	-3.21	46.00	-11.01	100	194	QP	vertical		

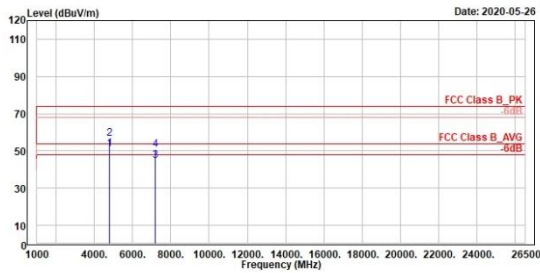
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

GFSK

Low Channel (Horizontal)



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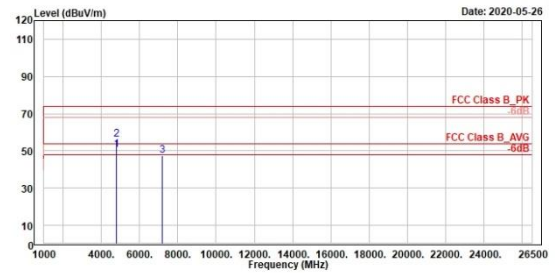


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	51.15	61.35	-10.20	54.00	-2.85	183	249	Average	horizontal		
2	4894.00	56.52	66.72	-10.20	74.00	-17.48	183	249	Peak	horizontal		
3	7206.00	44.67	52.32	-7.65	54.00	-9.33	115	285	Average	horizontal		
4	7206.00	50.49	58.14	-7.65	74.00	-23.51	115	285	Peak	horizontal		

Low Channel (Vertical)



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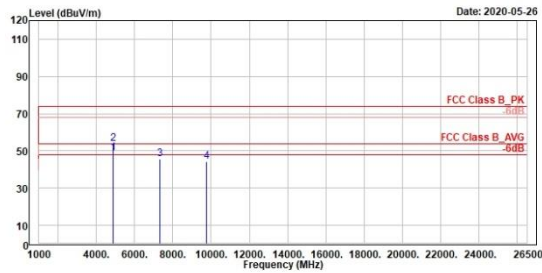
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	50.83	61.03	-10.20	54.00	-3.17	375	184	Average	vertical		
2	4894.00	55.97	66.17	-10.20	74.00	-18.03	375	184	Peak	vertical		
3	7206.00	47.43	55.08	-7.65	74.00	-26.57	180	206	Peak	vertical		

GFSK

Middle Channel (Horizontal)



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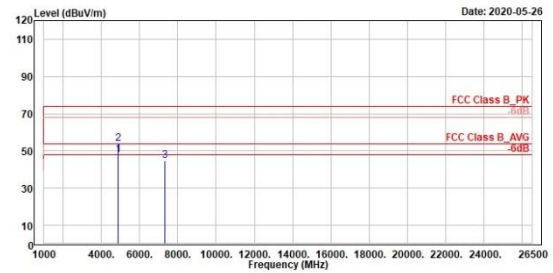


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4882.00	48.61	58.67	-10.06	54.00	-5.39	100	228	Average	Horizontal		
2	4882.00	53.80	63.86	-10.06	74.00	-20.20	100	228	Peak	Horizontal		
3	7323.00	45.62	53.41	-7.79	74.00	-28.38	100	214	Peak	Horizontal		
4	9764.00	44.47	49.43	-4.96	74.00	-29.53	100	249	Peak	Horizontal		

Middle Channel (Vertical)



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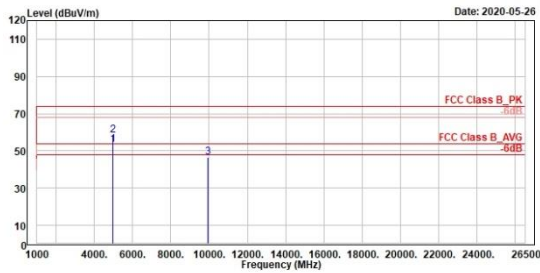
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4882.00	47.84	57.90	-10.06	54.00	-6.16	300	171	Average	vertical		
2	4882.00	53.61	63.67	-10.06	74.00	-20.39	300	171	Peak	vertical		
3	7323.00	44.65	52.44	-7.79	74.00	-29.35	200	277	Peak	vertical		

GFSK

High Channel (Horizontal)



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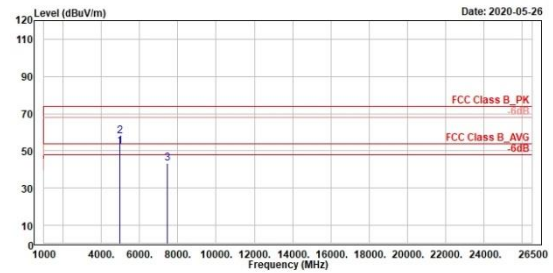


Line	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV/m	dBuV/m	dB/m	dBuV/m	dB	cm	deg			
1	4968.00	53.57	63.33	-9.76	54.00	-0.43	186	234	Average	horizontal		
2	4968.00	58.47	68.23	-9.76	74.00	-15.53	186	234	Peak	horizontal		
3	9928.00	46.71	51.39	-4.68	74.00	-27.29	100	241	Peak	horizontal		

High Channel (Vertical)



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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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Line	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV/m	dBuV/m	dB/m	dBuV/m	dB	cm	deg			
1	4968.00	52.67	62.43	-9.76	54.00	-1.33	300	161	Average	vertical		
2	4968.00	57.98	67.66	-9.76	74.00	-16.18	300	161	Peak	vertical		
3	7448.00	43.32	51.04	-7.72	74.00	-30.68	100	346	Peak	vertical		

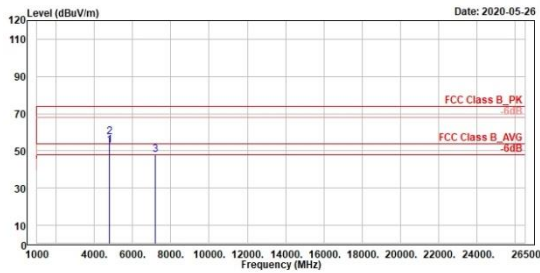
8DPSK

Low Channel (Horizontal)

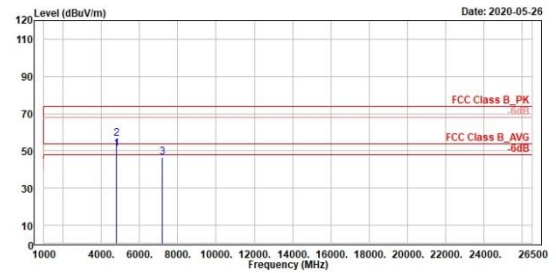
Low Channel (Vertical)



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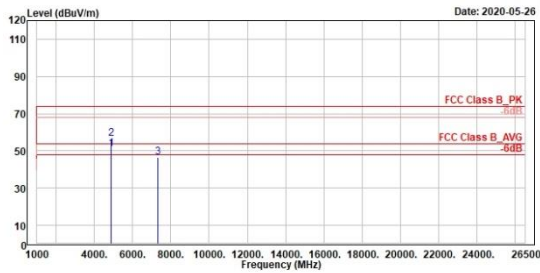


8DPSK

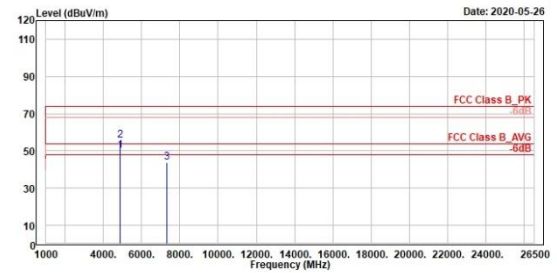
Middle Channel (Horizontal)



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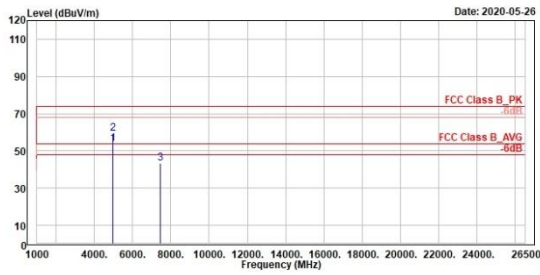


8DPSK

High Channel (Horizontal)



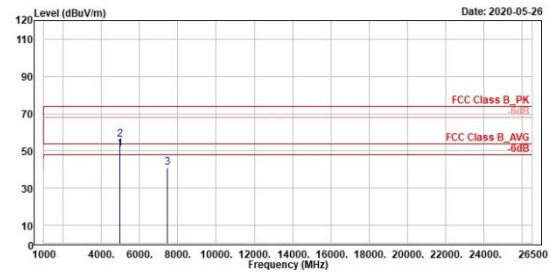
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	53.66	63.42	-9.76	54.00	-0.34	112	243	Average	horizontal		
2	4968.00	59.31	69.07	-9.76	74.00	-14.69	112	243	Peak	horizontal		
3	7440.00	43.35	51.07	-7.72	74.00	-30.65	100	281	Peak	horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	51.04	60.80	-9.76	54.00	-2.96	100	270	Average	vertical		
2	4968.00	56.04	65.80	-9.76	74.00	-17.96	100	270	Peak	vertical		
3	7440.00	41.04	48.76	-7.72	74.00	-32.96	100	212	Peak	vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

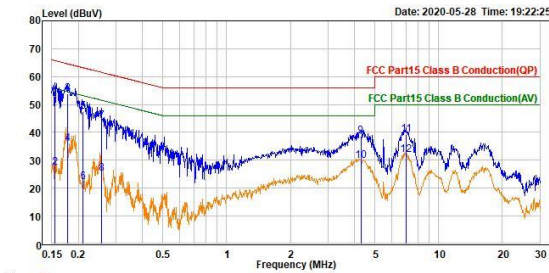
Worst Band

(Line)

(Neutral)



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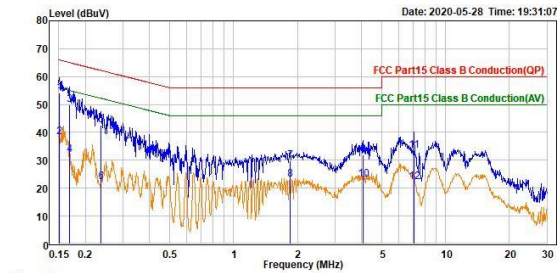


Trace: 1

	Freq	Read Level	Factor	Level	Over Limit	Pol/Phase	Remark	Note
	MHz	dBuV	dB	dBuV	dB			
1	0.155	42.77	10.11	52.88	-12.87	line1	QP	
2	0.155	17.24	10.11	27.35	-28.40	line1	Average	
3	0.178	43.83	10.11	53.94	-10.65	line1	QP	
4	0.178	25.81	10.11	35.92	-18.67	line1	Average	
5	0.209	37.32	10.11	47.43	-15.80	line1	QP	
6	0.209	12.10	10.11	22.21	-31.02	line1	Average	
7	0.257	34.02	10.11	44.13	-17.40	line1	QP	
8	0.257	15.08	10.11	25.19	-26.34	line1	Average	
9	4.294	28.27	10.23	38.50	-17.50	line1	QP	
10	4.294	19.59	10.23	29.82	-16.18	line1	Average	
11	6.999	28.95	10.30	39.25	-20.75	line1	QP	
12	6.999	21.61	10.30	31.91	-18.09	line1	Average	



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Trace: 1

	Freq	Read Level	Factor	Level	Over Limit	Pol/Phase	Remark	Note
	MHz	dBuV	dB	dBuV	dB			
1	0.151	44.09	10.11	54.20	-11.76	neutral	QP	
2	0.151	28.27	10.11	38.38	-17.58	neutral	Average	
3	0.168	39.67	10.11	49.78	-15.27	neutral	QP	
4	0.168	21.85	10.11	31.96	-23.09	neutral	Average	
5	0.236	32.48	10.11	42.59	-19.64	neutral	QP	
6	0.236	11.99	10.11	22.10	-30.13	neutral	Average	
7	1.840	19.77	10.16	29.93	-26.07	neutral	QP	
8	1.840	12.87	10.16	23.03	-22.97	neutral	Average	
9	4.065	21.60	10.20	31.80	-24.20	neutral	QP	
10	4.065	12.93	10.20	23.13	-22.87	neutral	Average	
11	7.069	23.31	10.29	33.60	-26.40	neutral	QP	
12	7.069	11.82	10.29	22.11	-27.89	neutral	Average	