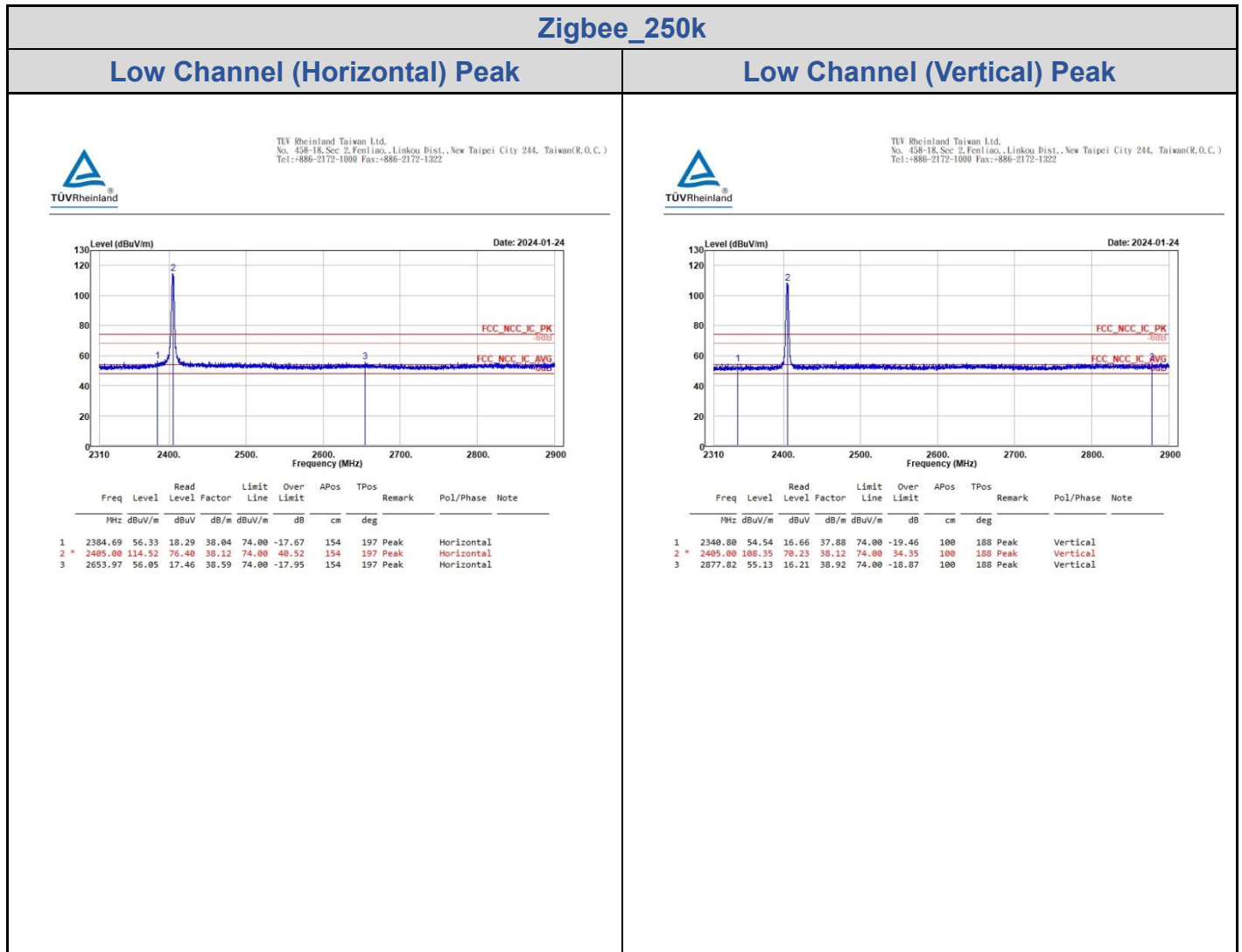


Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PCB Antenna

Band Edges, 2.31GHz ~ 2.9GHz

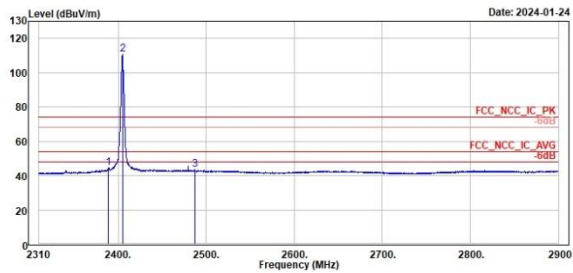


Zigbee_250k

Low Channel (Horizontal) Average



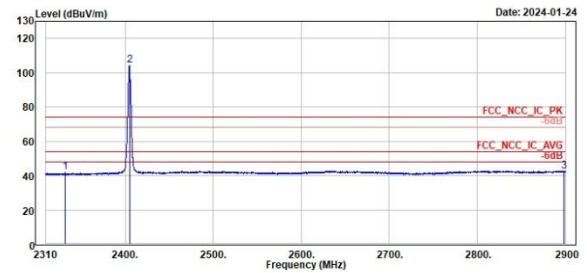
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.18	44.31	6.25	38.06	54.00	-9.69	154	197	Average	Horizontal	
2 *	2405.00	110.51	72.39	38.12	54.00	56.51	194	197	Average	Horizontal	
3	2487.47	43.28	4.96	38.32	54.00	-10.72	154	197	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	dB	cm	deg			
1	2332.07	41.85	4.01	37.84	54.00	-12.15	100	188	Average	Vertical	
2 *	2405.00	104.39	66.27	38.12	54.00	50.39	100	188	Average	Vertical	
3	2898.47	42.74	3.75	38.99	54.00	-11.26	100	188	Average	Vertical	

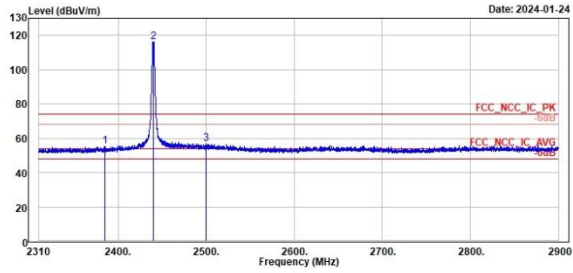
Zigbee_250k

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



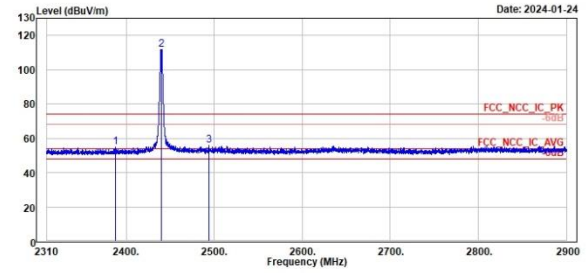
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.40	55.32	17.28	38.04	74.00	-18.68		118	192	Peak	Horizontal	
2 *	2440.00	116.05	77.75	38.30	74.00	42.05		118	192	Peak	Horizontal	
3	2500.22	56.71	18.40	38.31	74.00	-17.29		118	192	Peak	Horizontal	



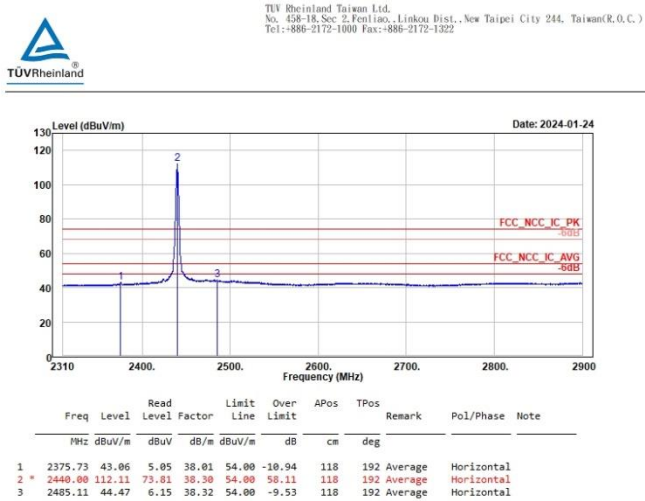
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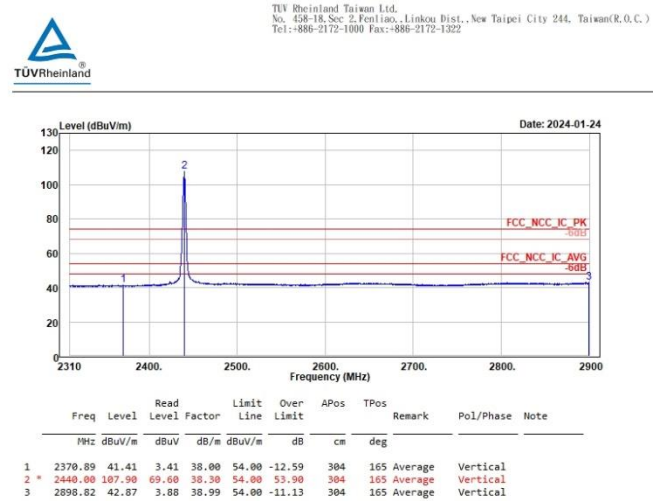
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.53	54.79	16.73	38.06	74.00	-19.21		304	165	Peak	Vertical	
2 *	2440.00	111.78	73.48	38.30	74.00	37.78		304	165	Peak	Vertical	
3	2493.96	55.92	17.61	38.31	74.00	-18.08		304	165	Peak	Vertical	

Zigbee_250k

Middle Channel (Horizontal) Average



Middle Channel (Vertical) Average

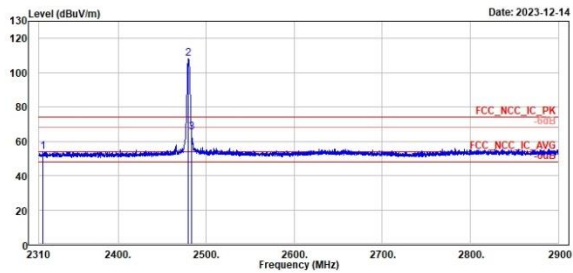


Zigbee_250k

High Channel (Horizontal) Peak



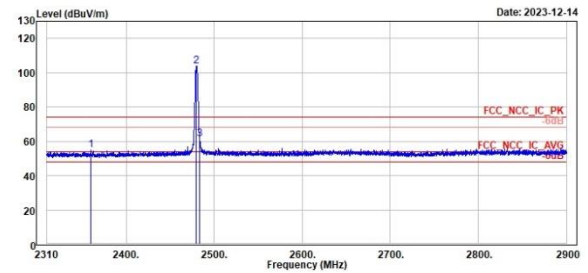
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2314.68	53.87	16.12	37.75	74.00	-20.13	239	205	Peak	Horizontal		
2 *	2480.00	108.10	69.77	38.33	74.00	34.10	239	205	Peak	Horizontal		
3	2483.50	65.23	26.91	38.32	74.00	-8.77	239	205	Peak	Horizontal		



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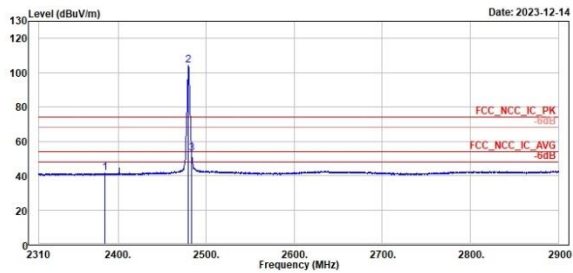
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2360.15	55.08	17.12	37.96	74.00	-18.92	339	173	Peak	Vertical		
2 *	2480.00	104.04	65.71	38.33	74.00	30.04	339	173	Peak	Vertical		
3	2483.58	61.50	23.18	38.32	74.00	-12.50	339	173	Peak	Vertical		

Zigbee_250k

High Channel (Horizontal) Average



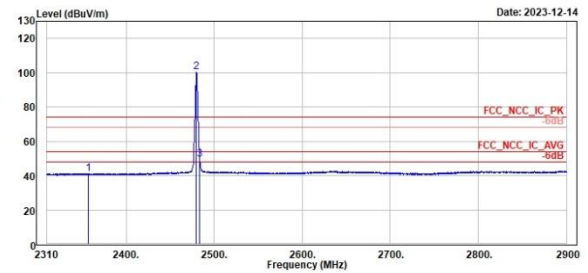
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.28	41.46	3.42	38.04	54.00	-12.54	239	205	Average	Horizontal	
2 *	2480.00	104.34	66.81	38.33	54.00	50.34	239	205	Average	Horizontal	
3 †	2483.50	52.76	14.44	38.32	54.00	-1.24	239	205	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	dB	cm	deg			
1	2356.73	41.15	3.20	37.95	54.00	-12.85	339	173	Average	Vertical	
2 *	2480.00	100.28	61.95	38.33	54.00	46.28	339	173	Average	Vertical	
3 †	2483.50	49.50	11.18	38.32	54.00	-4.50	339	173	Average	Vertical	

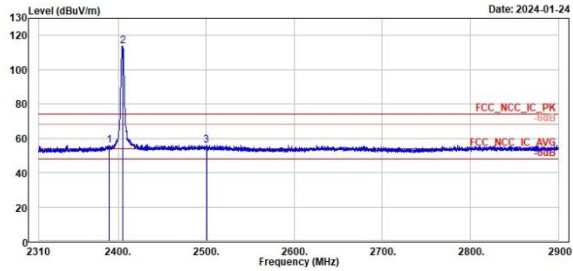
Zigbee_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



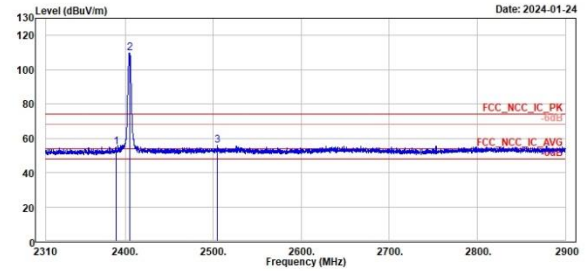
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.89	55.75	17.69	38.06	74.00	-18.25		140	189	Peak	Horizontal	
2 *	2405.00	113.70	75.58	38.12	74.00	39.70		140	189	Peak	Horizontal	
3	2500.33	56.10	17.79	38.31	74.00	-17.90		140	189	Peak	Horizontal	



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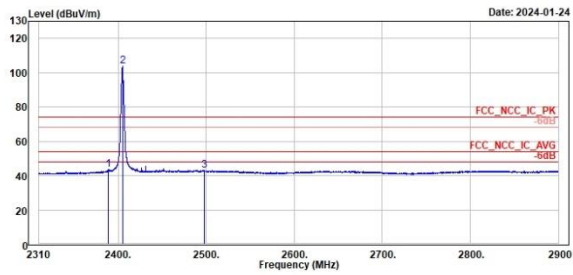
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2390.00	54.95	16.89	38.06	74.00	-19.05		355	191	Peak	Vertical	
2 *	2405.00	109.59	71.47	38.12	74.00	35.59		355	191	Peak	Vertical	
3	2504.70	55.82	17.50	38.32	74.00	-18.18		355	191	Peak	Vertical	

Zigbee_2M

Low Channel (Horizontal) Average



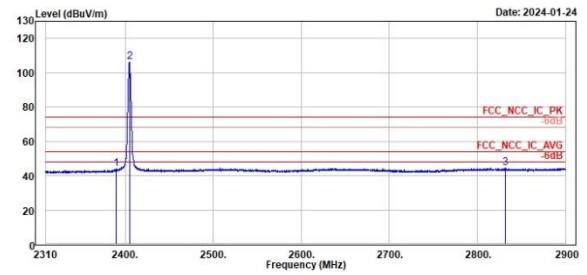
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.38	43.36	5.38	38.06	54.00	-10.64	140	189	Average	Horizontal		
2 *	2405.00	103.61	65.49	38.12	54.00	49.61	140	189	Average	Horizontal		
3	2497.86	43.01	4.70	38.31	54.00	-10.99	140	189	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	dB	cm	deg			
1	2389.89	43.87	5.81	38.06	54.00	-10.13	355	191	Average	Vertical		
2 *	2405.00	106.17	68.05	38.12	54.00	52.17	355	191	Average	Vertical		
3	2832.03	44.34	5.60	38.74	54.00	-9.66	355	191	Average	Vertical		

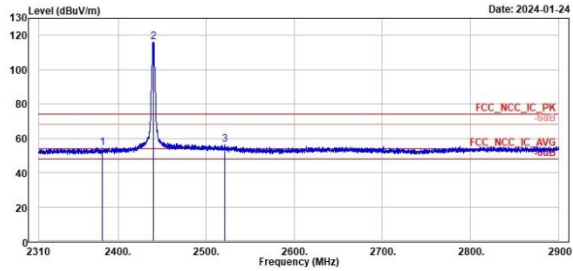
Zigbee_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



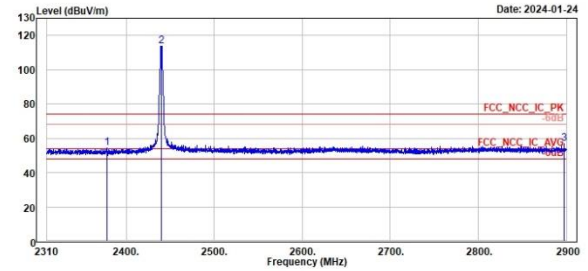
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.45	54.31	16.28	38.03	74.00	-19.69	166	191	Peak	Horizontal		
2 *	2440.00	115.92	77.62	38.30	74.00	41.92	166	191	Peak	Horizontal		
3	2520.87	56.26	17.92	38.34	74.00	-17.74	166	191	Peak	Horizontal		



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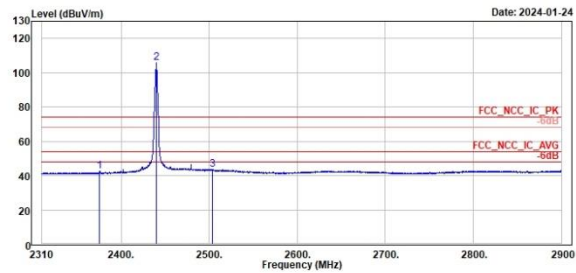
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1	2377.97	54.17	16.15	38.02	74.00	-19.83	304	168	Peak	Vertical		
2 *	2440.00	113.76	75.46	38.30	74.00	39.76	304	168	Peak	Vertical		
3	2897.40	57.02	18.04	38.98	74.00	-16.98	304	168	Peak	Vertical		

Zigbee_2M

Middle Channel (Horizontal) Average



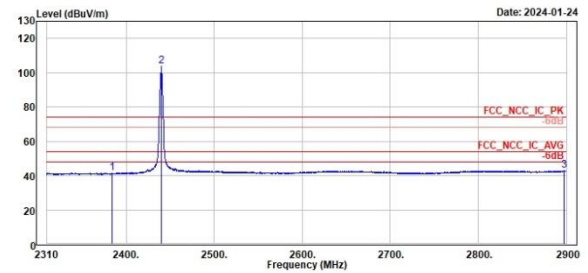
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2375.84	42.53	4.52	38.01	54.00	-11.47	166	191	Average	Horizontal	
2 *	2440.00	105.69	67.39	38.30	54.00	51.69	166	191	Average	Horizontal	
3	2504.11	43.73	5.42	38.31	54.00	-10.27	166	191	Average	Horizontal	



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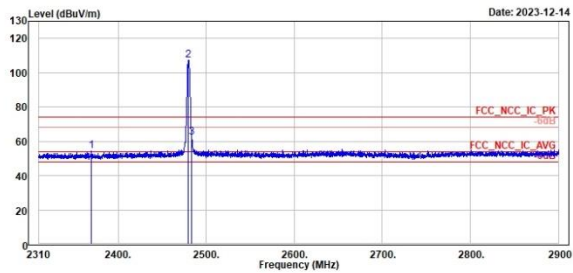
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.75	41.51	3.47	38.04	54.00	-12.49	304	168	Average	Vertical	
2 *	2440.00	103.67	65.37	38.30	54.00	49.67	304	168	Average	Vertical	
3	2897.40	42.91	3.93	38.98	54.00	-11.09	304	168	Average	Vertical	

Zigbee_2M

High Channel (Horizontal) Peak



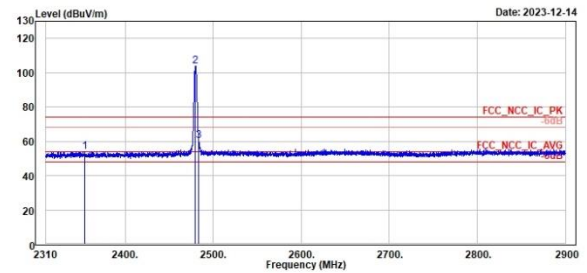
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2354.24	54.32	16.33	37.99	74.00	-19.68	185	197	Peak	Horizontal		
2 *	2480.00	107.30	68.97	38.33	74.00	33.30	185	197	Peak	Horizontal		
3	2483.58	62.30	23.98	38.32	74.00	-11.70	185	197	Peak	Horizontal		



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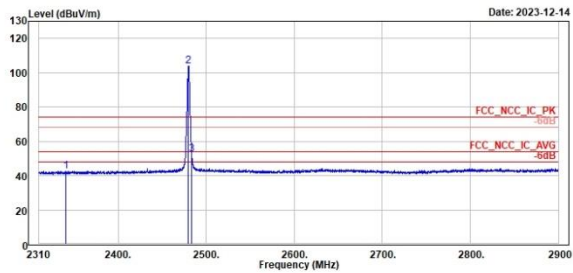
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2354.25	54.12	16.17	37.95	74.00	-19.88	335	176	Peak	Vertical		
2 *	2480.00	103.78	65.45	38.33	74.00	29.78	335	176	Peak	Vertical		
3	2483.58	60.27	21.95	38.32	74.00	-13.73	335	176	Peak	Vertical		

Zigbee_2M

High Channel (Horizontal) Average



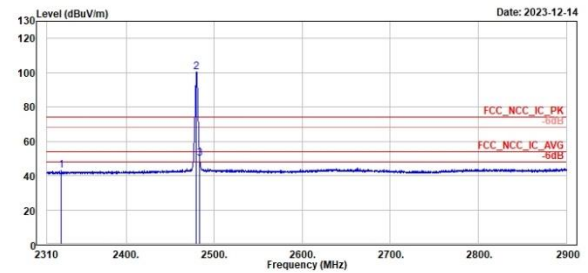
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2341.03	42.67	4.79	37.88	54.00	-11.33	185	197	Average	Horizontal		
2 *	2480.00	103.95	65.62	38.33	54.00	49.95	185	197	Average	Horizontal		
3 †	2483.50	52.28	13.96	38.32	54.00	-1.72	185	197	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	dB	cm	deg			
1	2326.52	42.82	5.01	37.81	54.00	-11.18	335	176	Average	Vertical		
2 *	2480.00	100.48	62.15	38.33	54.00	46.48	335	176	Average	Vertical		
3 †	2483.50	49.99	11.67	38.32	54.00	-4.01	335	176	Average	Vertical		

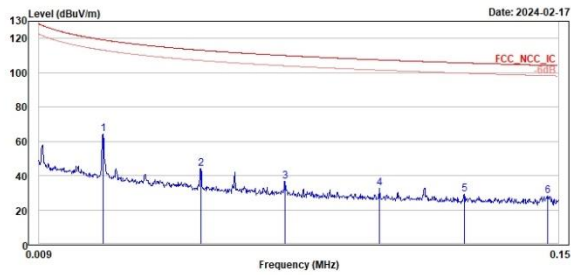
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

Zigbee_250k

Middle Channel (Open) 9kHz~150kHz



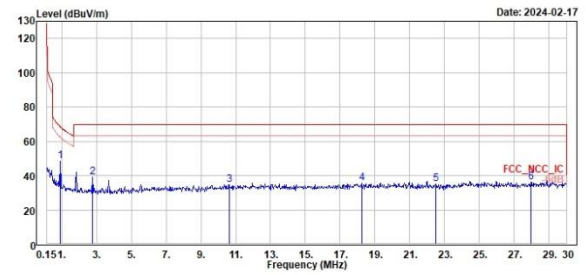
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.03	64.04	44.23	19.81	119.13	-55.09	100	159	Peak	Open	
2	0.05	43.84	24.54	19.30	113.11	-69.27	100	324	Peak	Open	
3	0.08	36.53	17.93	18.60	110.00	-73.47	100	274	Peak	Open	
4	0.10	32.71	14.18	18.53	107.47	-74.76	100	134	Peak	Open	
5	0.12	29.35	10.68	18.67	105.70	-76.35	100	198	Peak	Open	
6	0.15	27.94	9.14	18.80	104.25	-76.31	100	139	Peak	Open	



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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	0.93	48.27	29.13	19.14	68.27	-20.00	100	130	Peak	Open	
2	2.78	39.14	20.02	19.12	69.50	-30.36	100	123	Peak	Open	
3	10.63	34.48	13.06	21.42	69.50	-35.02	100	347	Peak	Open	
4	18.27	35.66	13.15	22.51	69.50	-33.04	100	102	Peak	Open	
5	22.48	35.13	13.21	21.92	69.50	-34.37	100	299	Peak	Open	
6	27.94	36.30	13.34	22.96	69.50	-33.20	100	214	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

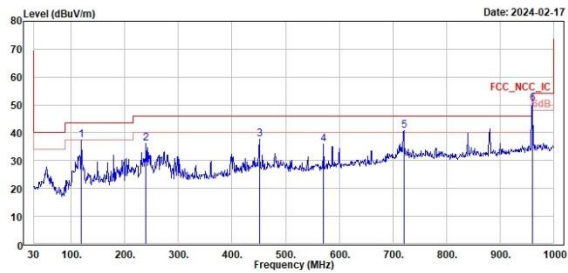
Zigbee_250k

Middle Channel (Horizontal)

Middle Channel (Vertical)



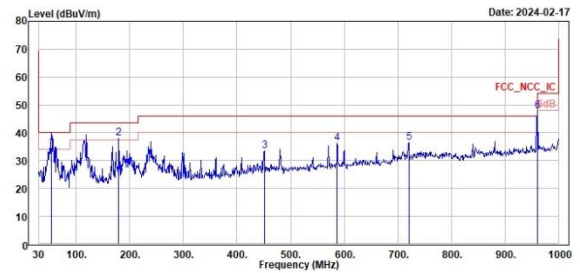
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	119.24	37.55	46.74	-9.19	43.50	-5.95	200	251	Peak	Horizontal		
2	239.52	36.23	42.83	-6.60	46.00	-9.77	200	173	Peak	Horizontal		
3	450.98	37.67	39.69	-2.02	46.00	-8.33	200	113	Peak	Horizontal		
4	571.26	35.92	36.45	-0.53	46.00	-10.08	100	116	Peak	Horizontal		
5	720.64	40.71	38.77	1.94	46.00	-5.29	100	145	Peak	Horizontal		
6	960.23	50.57	45.06	5.51	54.00	-3.43	100	158	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	dB	cm	deg			
1	53.28	34.64	40.30	-5.66	40.00	-5.36	100	222	QP	Vertical		
2	179.38	37.93	44.62	-6.69	43.50	-5.57	100	104	Peak	Vertical		
3	450.98	33.31	35.33	-2.02	46.00	-12.69	100	30	Peak	Vertical		
4	586.78	36.12	35.98	0.14	46.00	-9.88	100	198	Peak	Vertical		
5	720.64	36.47	34.53	1.94	46.00	-9.53	100	140	Peak	Vertical		
6	960.23	47.84	42.33	5.51	54.00	-6.16	100	201	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

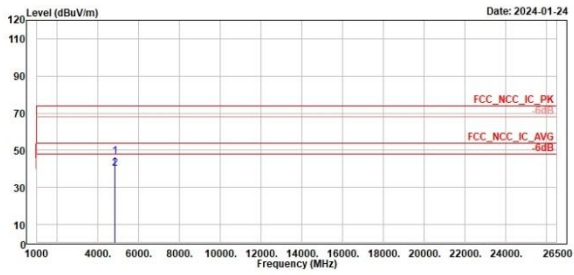
Zigbee_250k

Low Channel (Horizontal)

Low Channel (Vertical)



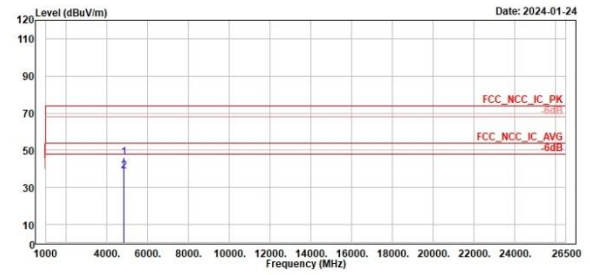
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4810.00	46.48	54.48	-8.00	74.00	-27.52	200	149 Peak	Horizontal	
2	4810.00	40.16	48.16	-8.00	54.00	-13.84	200	149 Average	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4810.00	46.03	54.03	-8.00	74.00	-27.97	124	77 Peak	Vertical	
2	4810.00	38.77	46.77	-8.00	54.00	-15.23	124	77 Average	Vertical	

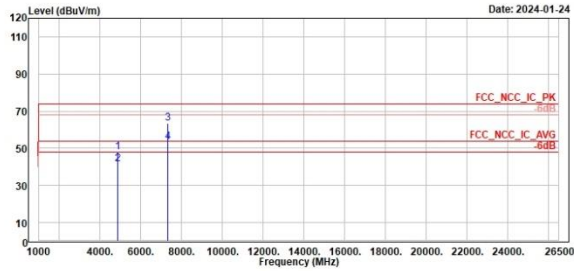
Zigbee_250k

Middle Channel (Horizontal)

Middle Channel (Vertical)



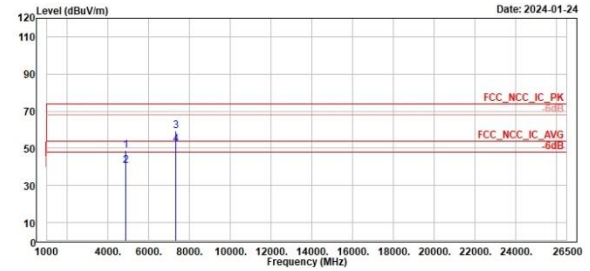
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	48.00	56.00	-7.92	74.00	-25.92	100	145 Peak	Horizontal	
2	4880.00	41.50	49.42	-7.92	54.00	-12.50	100	145 Average	Horizontal	
3	7320.00	63.40	68.76	-5.36	74.00	-10.60	100	58 Peak	Horizontal	
4	7320.00	53.57	58.93	-5.36	54.00	-0.43	100	58 Average	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.00	48.60	56.52	-7.92	74.00	-25.40	100	304 Peak	Vertical	
2	4880.00	40.51	48.43	-7.92	54.00	-13.49	100	304 Average	Vertical	
3	7320.00	59.51	64.87	-5.36	74.00	-14.49	124	77 Peak	Vertical	
4	7320.00	51.85	57.21	-5.36	54.00	-2.15	124	77 Average	Vertical	

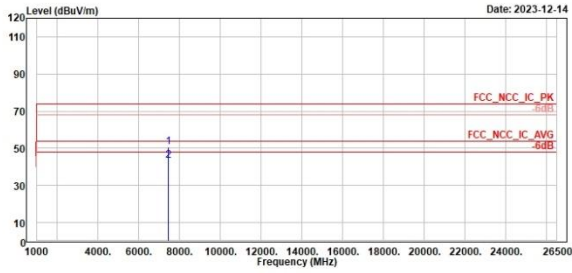
Zigbee_250k

High Channel (Horizontal)

High Channel (Vertical)



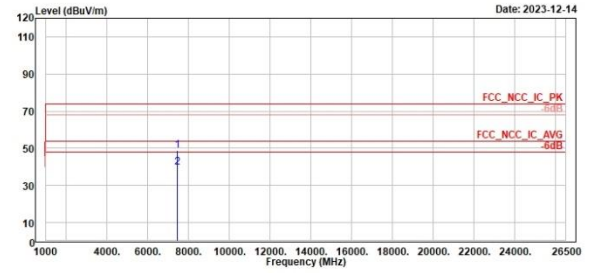
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Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	50.65	56.03	-5.38	74.00	-23.35	124	0	Peak	Horizontal	
2	7440.00	43.56	48.94	-5.38	54.00	-10.44	124	0	Average	Horizontal	



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Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	48.94	54.32	-5.38	74.00	-25.06	100	44	Peak	Vertical	
2	7440.00	39.88	45.26	-5.38	54.00	-14.12	100	44	Average	Vertical	

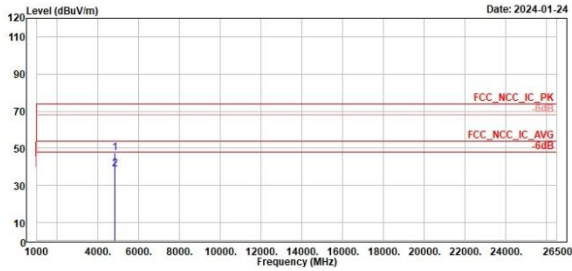
Zigbee_2M

Low Channel (Horizontal)

Low Channel (Vertical)



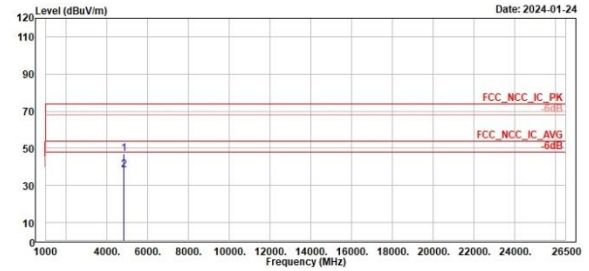
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Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4810.00	47.62	55.62	-8.00	74.00	-26.38	100	142	Peak	Horizontal	
2	4810.00	38.92	46.92	-8.00	54.00	-15.08	100	142	Average	Horizontal	



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Line	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4810.00	47.22	55.22	-8.00	74.00	-26.78	100	296	Peak	Vertical	
2	4810.00	38.40	46.40	-8.00	54.00	-15.60	100	296	Average	Vertical	

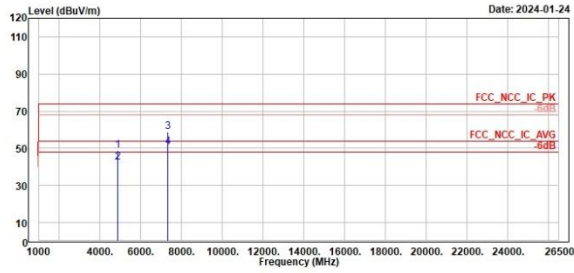
Zigbee_2M

Middle Channel (Horizontal)

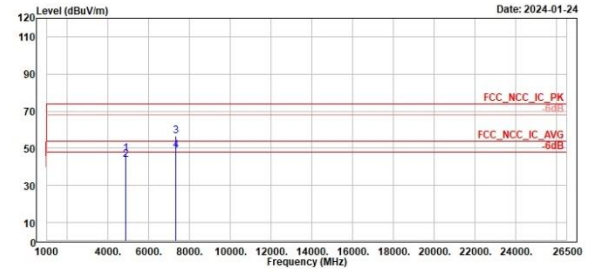
Middle Channel (Vertical)



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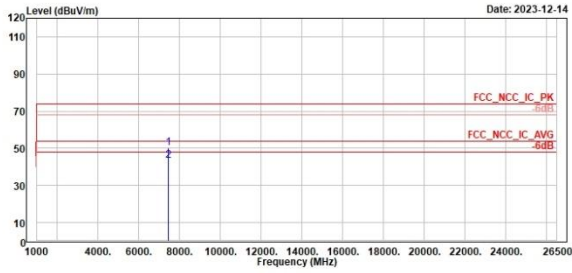


Zigbee_2M

High Channel (Horizontal)



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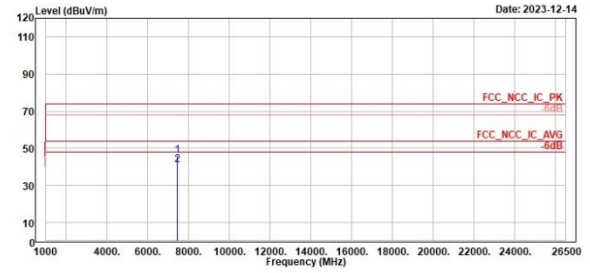


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7440.00	50.06	55.44	-5.38	74.00	-23.94	100	13 Peak	Horizontal	
2	7440.00	43.13	48.51	-5.38	54.00	-10.87	100	13 Average	Horizontal	

High Channel (Vertical)



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7440.00	45.93	51.31	-5.38	74.00	-28.07	300	55 Peak	Vertical	
2	7440.00	40.89	46.27	-5.38	54.00	-13.11	300	55 Average	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

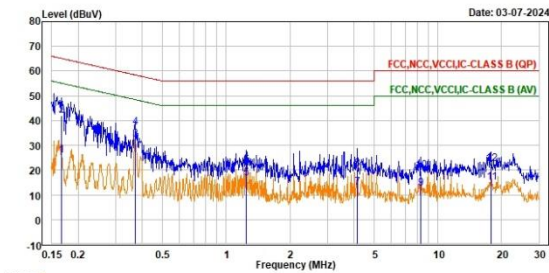
Worst Band

(Line)

(Neutral)



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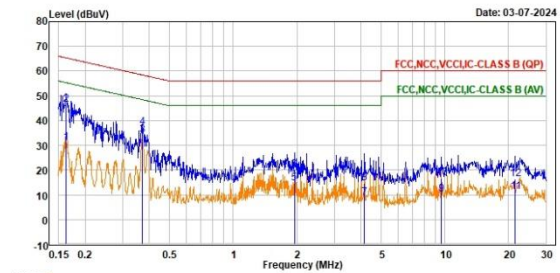


Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dB	dB			
1	0.17	25.79	16.17	9.62	55.09	-29.30 Average	line1	
2	0.17	42.08	32.46	9.62	65.09	-23.01 QP	line1	
3	0.37	32.29	22.66	9.63	48.47	-16.18 Average	line1	
4	0.37	37.34	27.71	9.63	58.47	-21.13 QP	line1	
5	1.25	16.54	6.90	9.64	46.00	-29.46 Average	line1	
6	1.25	22.21	12.57	9.64	56.00	-33.79 QP	line1	
7	4.17	12.88	3.20	9.68	46.00	-33.12 Average	line1	
8	4.17	20.38	10.70	9.68	56.00	-35.62 QP	line1	
9	8.33	12.52	2.76	9.74	50.00	-37.48 Average	line1	
10	8.33	19.82	10.08	9.74	60.00	-40.18 QP	line1	
11	17.86	14.82	5.06	9.76	50.00	-35.18 Average	line1	
12	17.86	22.55	12.79	9.76	60.00	-37.45 QP	line1	



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Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dB	dB			
1	0.16	30.96	21.34	9.62	55.34	-24.38 Average	neutral	
2	0.16	46.42	36.80	9.62	65.34	-18.92 QP	neutral	
3	0.37	34.27	24.64	9.63	48.47	-14.20 Average	neutral	
4	0.37	37.26	27.63	9.63	58.47	-21.21 QP	neutral	
5	1.94	14.48	4.82	9.66	46.00	-31.52 Average	neutral	
6	1.94	20.07	10.41	9.66	56.00	-35.93 QP	neutral	
7	4.17	8.94	-0.75	9.69	46.00	-37.06 Average	neutral	
8	4.17	14.67	4.98	9.69	56.00	-41.33 QP	neutral	
9	9.58	10.29	0.50	9.79	50.00	-39.71 Average	neutral	
10	9.58	16.54	6.75	9.79	60.00	-43.46 QP	neutral	
11	21.48	11.22	1.36	9.86	50.00	-38.78 Average	neutral	
12	21.48	16.44	6.58	9.86	60.00	-43.56 QP	neutral	