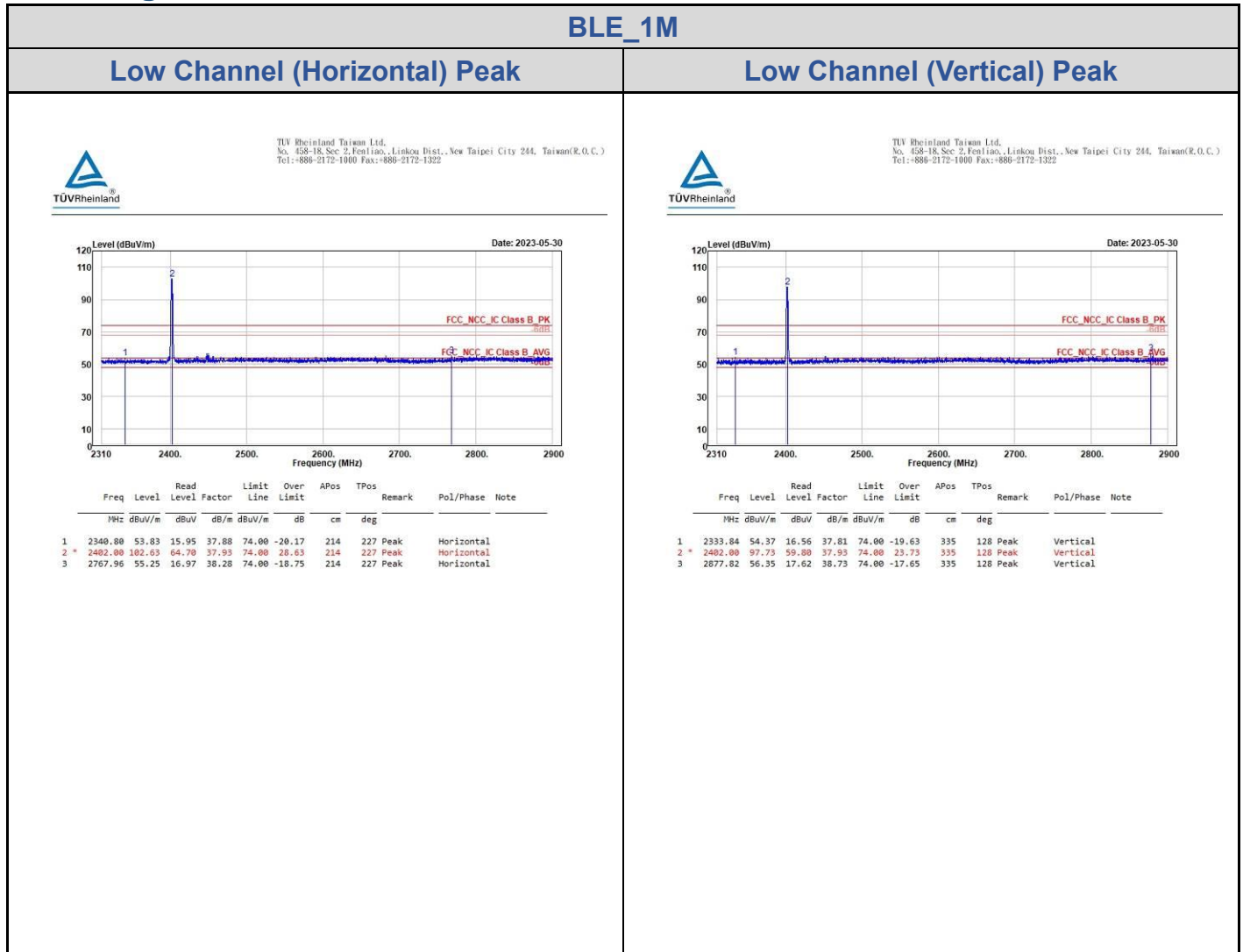


Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Band Edges, 2.31GHz ~ 2.9GHz



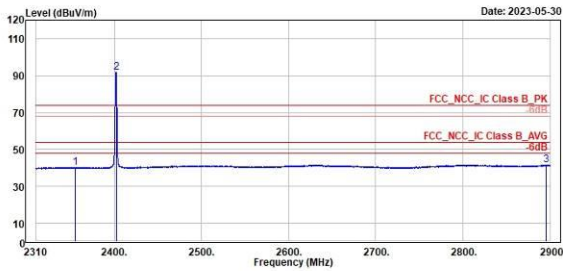
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



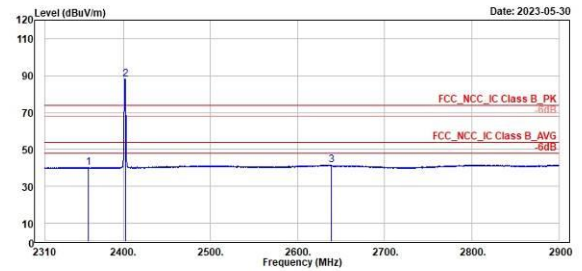
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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2355.19	40.32	2.37	37.95	54.00	-13.68	214	227	Average Horizontal
2 *	2402.00	91.93	54.00	37.93	54.00	37.93	214	227	Average Horizontal
3	2895.87	41.70	2.92	38.78	54.00	-12.30	214	227	Average Horizontal



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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2359.68	40.25	2.30	37.95	54.00	-13.75	335	128	Average Vertical
2 *	2402.00	88.06	50.13	37.93	54.00	34.06	335	128	Average Vertical
3	2638.87	41.62	3.21	38.41	54.00	-12.38	335	128	Average Vertical

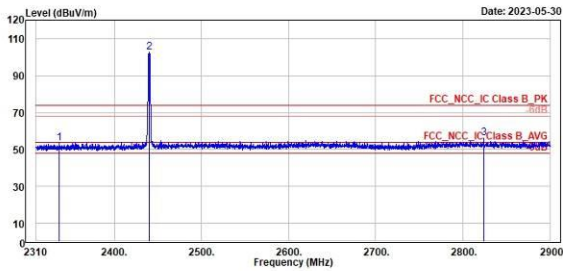
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



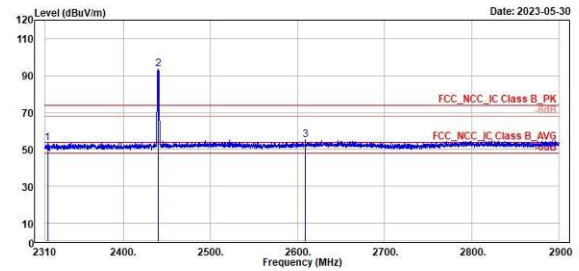
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Peak	Freq	Level	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2336.43	53.40	15.57	37.83	74.00	-20.60	214	210	Peak	Horizontal	
2 *	2440.00	102.63	64.43	38.20	74.00	28.63	214	210	Peak	Horizontal	
3	2823.89	56.34	17.73	38.61	74.00	-17.66	214	210	Peak	Horizontal	



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Peak	Freq	Level	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2313.19	53.40	15.78	37.62	74.00	-20.60	330	185	Peak	Vertical	
2 *	2440.00	93.52	55.32	38.20	74.00	19.52	330	185	Peak	Vertical	
3	2688.66	55.38	16.94	38.44	74.00	-18.62	330	185	Peak	Vertical	

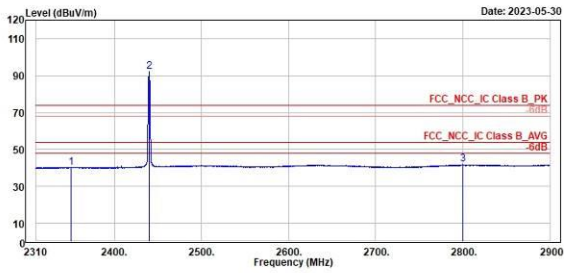
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



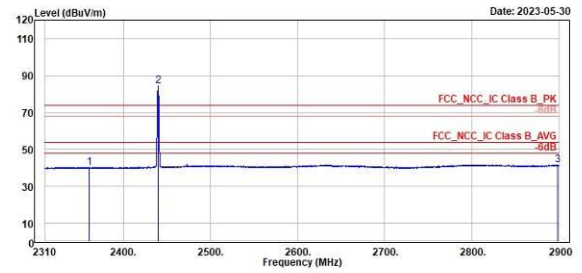
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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2350.47	40.36	2.49	37.96	54.00	-13.64	214	210 Average	Horizontal
2 *	2440.00	92.26	54.06	38.20	54.00	38.26	214	210 Average	Horizontal
3	2800.29	41.88	3.30	38.58	54.00	-12.12	214	210 Average	Horizontal



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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2360.86	40.30	2.35	37.95	54.00	-13.70	330	185 Average	Vertical
2 *	2440.00	84.33	46.13	38.20	54.00	30.33	330	185 Average	Vertical
3	2897.99	41.69	2.90	38.79	54.00	-12.31	330	185 Average	Vertical

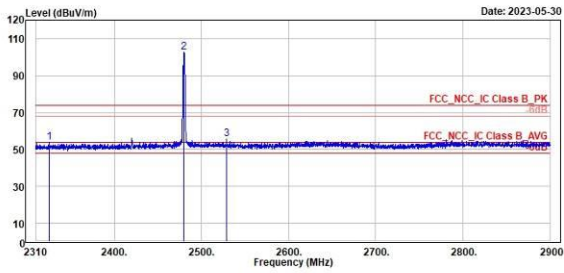
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



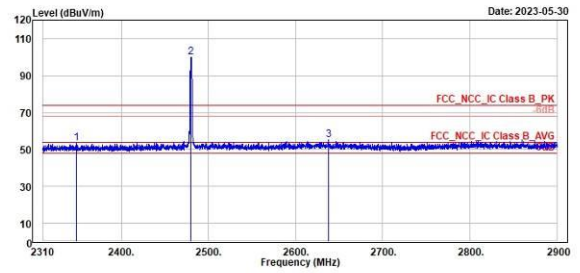
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2325.34	53.89	16.16	37.73	74.00	-20.11	321	241	Peak	Horizontal	
2 *	2489.00	102.47	64.16	38.31	74.00	28.47	321	241	Peak	Horizontal	
3	2529.01	55.85	17.61	38.24	74.00	-18.15	321	241	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2348.00	53.37	15.44	37.93	74.00	-20.63	362	142	Peak	Vertical	
2 *	2489.00	99.94	61.63	38.31	74.00	25.94	362	142	Peak	Vertical	
3	2638.16	55.19	16.78	38.41	74.00	-18.81	362	142	Peak	Vertical	

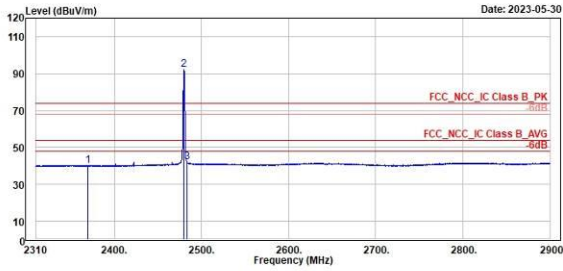
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



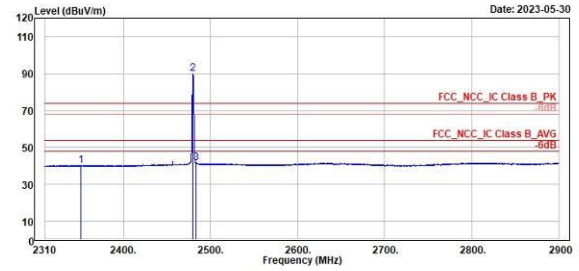
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2369.59	40.23	2.29	37.94	54.00	-13.77	321	241	Average	Horizontal	
2 *	2480.00	92.05	53.74	38.31	54.00	38.05	321	241	Average	Horizontal	
3	2483.46	42.13	3.82	38.31	54.00	-11.87	321	241	Average	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2350.83	40.36	2.40	37.96	54.00	-13.64	362	142	Average	Vertical	
2 *	2480.00	89.97	51.66	38.31	54.00	35.97	362	142	Average	Vertical	
3	2483.58	41.72	3.41	38.31	54.00	-12.28	362	142	Average	Vertical	

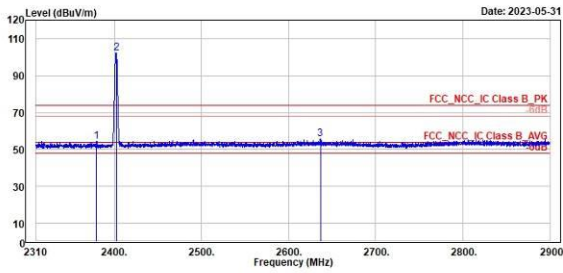
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



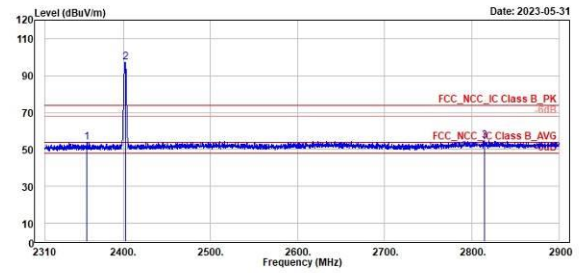
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2379.38	54.52	16.59	37.93	74.00	-19.48	190	199	Peak	Horizontal	
2 *	2402.00	102.30	64.37	37.93	74.00	28.30	190	199	Peak	Horizontal	
3	2636.39	55.62	17.20	38.42	74.00	-18.38	190	199	Peak	Horizontal	



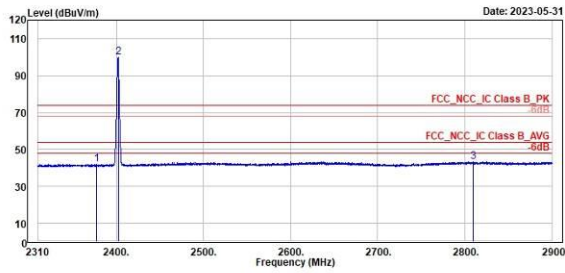
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2358.50	53.85	15.90	37.95	74.00	-20.15	343	132	Peak	Vertical	
2 *	2402.00	97.38	59.45	37.93	74.00	23.38	343	132	Peak	Vertical	
3	2814.21	54.63	16.04	38.59	74.00	-19.37	343	132	Peak	Vertical	

BLE_2M
Low Channel (Horizontal) Average
Low Channel (Vertical) Average

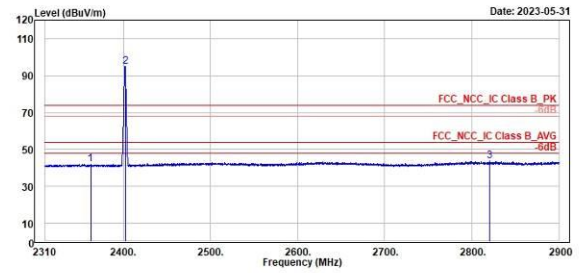

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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2377.02	42.12	4.18	37.94	54.00	-11.88	190	199 Average	Horizontal
2 *	2402.00	99.80	61.87	37.93	54.00	45.80	190	199 Average	Horizontal
3	2809.14	43.30	4.71	38.59	54.00	-10.70	190	199 Average	Horizontal



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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2362.39	42.10	4.15	37.95	54.00	-11.90	343	132 Average	Vertical
2 *	2402.00	94.78	56.85	37.93	54.00	40.78	343	132 Average	Vertical
3	2819.76	43.69	5.09	38.60	54.00	-10.31	343	132 Average	Vertical

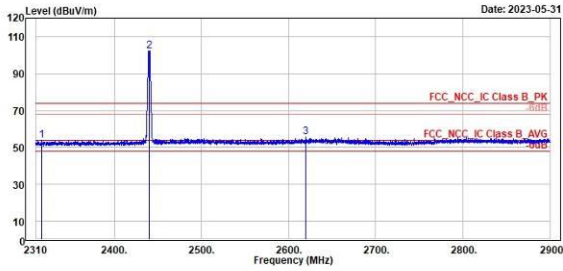
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



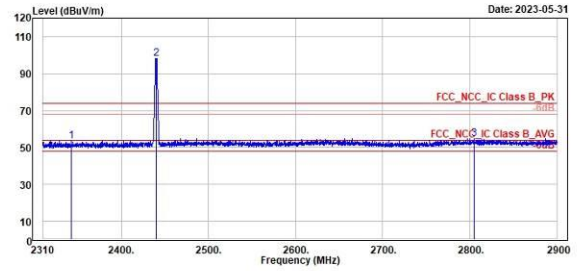
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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2316.37	53.91	16.26	37.65	74.00	-20.09	336	208 Peak	Horizontal
2 *	2440.00	102.40	64.20	38.20	74.00	28.40	336	208 Peak	Horizontal
3	2619.63	55.65	17.22	38.43	74.00	-18.35	336	208 Peak	Horizontal



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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2342.57	53.58	15.69	37.89	74.00	-20.42	363	110 Peak	Vertical
2 *	2440.00	98.24	60.04	38.20	74.00	24.24	363	110 Peak	Vertical
3	2804.66	54.81	16.23	38.58	74.00	-19.19	363	110 Peak	Vertical

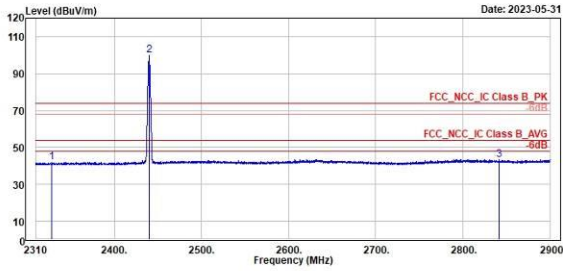
BLE_2M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



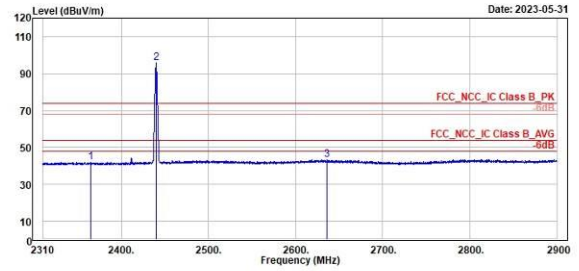
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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2328.17	42.06	4.39	37.76	54.00	-11.94	336	208 Average	Horizontal	
2440.00	99.86	61.66	38.20	54.00	45.86	336	208 Average	Horizontal	
2841.83	43.39	4.76	38.63	54.00	-10.61	336	208 Average	Horizontal	



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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2365.11	41.88	3.94	37.94	54.00	-12.12	363	110 Average	Vertical	
2440.00	95.68	57.48	38.20	54.00	41.68	363	110 Average	Vertical	
2635.00	43.51	5.09	38.42	54.00	-10.49	363	110 Average	Vertical	

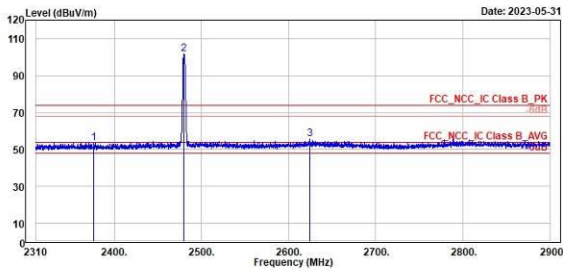
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



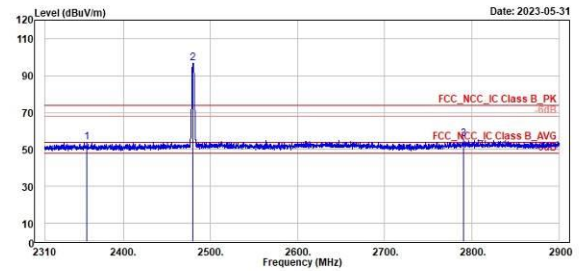
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Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit	cm	deg			
dBuV/m	dBuV	dBuV/m	cm	deg			
2376.32	53.47	15.53	37.94	74.00	-20.53	359	238 Peak
2480.00	101.57	63.26	38.31	74.00	27.57	359	238 Peak
2624.47	55.79	17.37	38.42	74.00	-18.21	359	238 Peak



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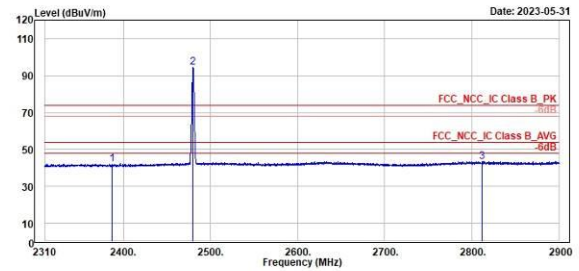
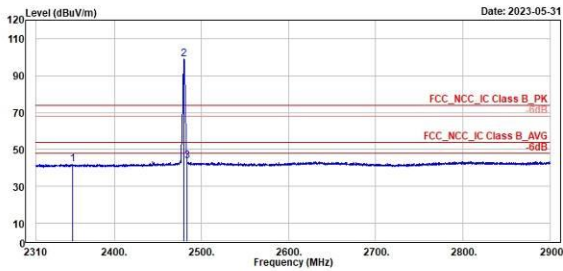


Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Level	Line	Limit	cm	deg			
dBuV/m	dBuV	dBuV/m	cm	deg			
2358.14	53.78	15.83	37.95	74.00	-20.22	400	137 Peak
2480.00	96.76	50.45	38.31	74.00	22.76	400	137 Peak
2790.50	55.55	17.06	38.49	74.00	-18.45	400	137 Peak

BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2351.89	42.05	4.09	37.96	54.00	-11.95	359	238 Average	Horizontal
2 *	2483.00	99.13	60.82	38.31	54.00	45.13	359	238 Average	Horizontal
3	2483.46	43.63	5.32	38.31	54.00	-10.37	359	238 Average	Horizontal

Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2386.70	42.17	4.24	37.93	54.00	-11.83	400	137 Average	Vertical
2 *	2483.00	94.27	55.96	38.31	54.00	40.27	400	137 Average	Vertical
3	2811.38	43.44	4.85	38.59	54.00	-10.56	400	137 Average	Vertical

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

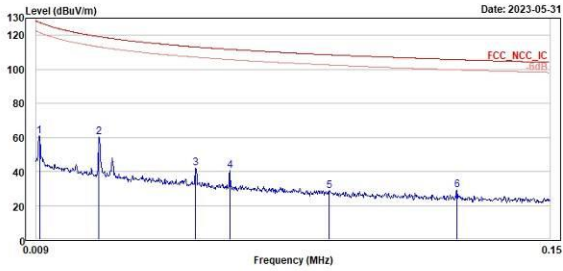
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



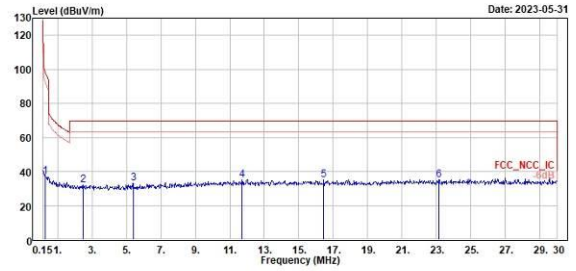
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.01	60.81	43.09	17.72	127.60	-66.79	100	51	Peak	Open	
2	0.03	60.32	41.38	18.94	119.18	-58.86	100	183	Peak	Open	
3	0.05	41.78	22.73	19.05	113.13	-71.35	100	330	Peak	Open	
4	0.06	40.77	21.94	18.83	111.72	-70.95	100	201	Peak	Open	
5	0.09	28.68	10.51	18.17	108.56	-79.88	100	293	Peak	Open	
6	0.12	29.17	11.15	18.02	105.70	-76.53	100	125	Peak	Open	



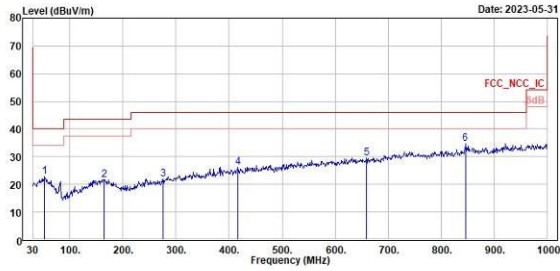
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.30	37.07	18.34	18.73	98.08	-61.01	100	8	Peak	Open	
2	2.48	32.31	12.84	19.47	69.50	-37.19	100	78	Peak	Open	
3	5.40	33.06	13.46	19.60	69.50	-36.44	100	355	Peak	Open	
4	11.70	34.95	13.35	21.60	69.50	-34.55	100	53	Peak	Open	
5	16.45	35.18	13.25	21.93	69.50	-34.32	100	258	Peak	Open	
6	23.13	35.24	13.05	22.19	69.50	-34.26	100	15	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)

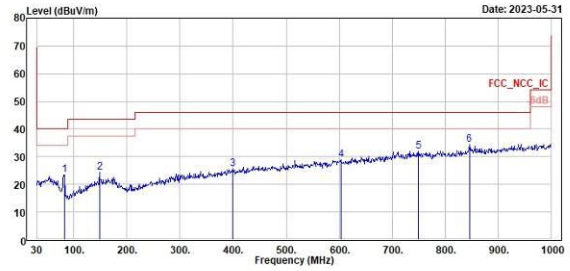

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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	52.31	22.85	28.52	-5.67	40.00	-17.15	400	270	Peak	Horizontal	
2	163.86	21.61	27.28	-5.67	43.50	-21.89	100	295	Peak	Horizontal	
3	275.41	22.03	27.58	-5.55	46.00	-23.97	100	149	Peak	Horizontal	
4	416.06	26.12	28.75	-2.63	46.00	-19.88	400	148	Peak	Horizontal	
5	659.53	29.61	28.35	1.26	46.00	-16.39	356	360	Peak	Horizontal	
6	845.77	34.69	30.59	4.10	46.00	-11.31	300	155	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	81.41	23.45	34.65	-11.20	40.00	-16.55	200	227	Peak	Vertical	
2	148.34	24.36	30.64	-6.28	43.50	-19.14	100	164	Peak	Vertical	
3	399.57	25.49	28.43	-2.94	46.00	-20.51	300	44	Peak	Vertical	
4	603.27	28.90	28.50	0.40	46.00	-17.10	100	105	Peak	Vertical	
5	749.74	32.06	28.96	3.10	46.00	-13.94	300	105	Peak	Vertical	
6	845.77	34.30	30.20	4.10	46.00	-11.70	100	123	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

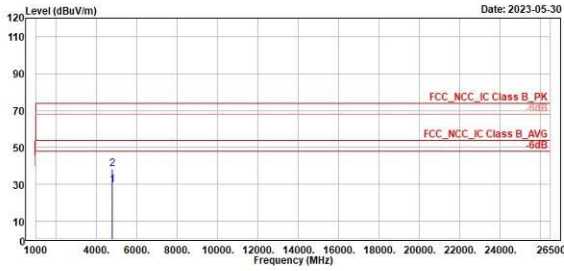
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



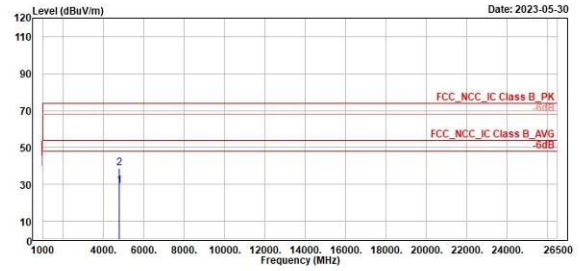
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Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4884.00	29.43	37.29	-7.86	54.00	-24.57	274	360	Average	Horizontal	
2	4884.00	38.26	46.12	-7.86	74.00	-35.74	274	360	Peak	Horizontal	



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Line	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4884.00	29.27	37.13	-7.86	54.00	-24.73	100	323	Average	Vertical	
2	4884.00	38.82	46.68	-7.86	74.00	-35.18	100	323	Peak	Vertical	

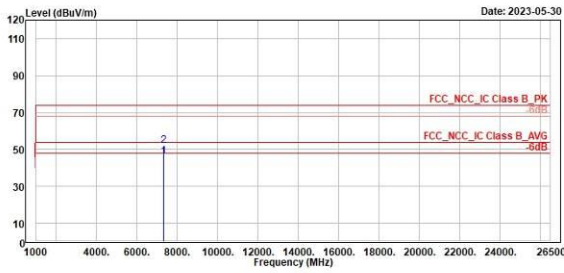
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



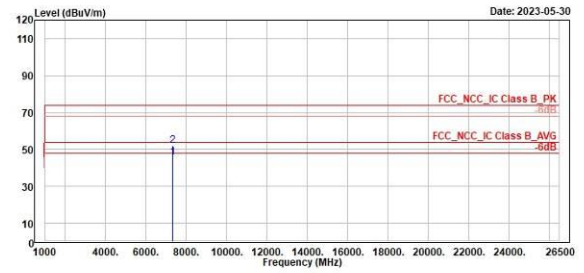
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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7320.00	46.30	51.86	-5.56	54.00	-7.70	300	207 Average	Horizontal
2	7320.00	52.19	57.75	-5.56	74.00	-21.81	300	207 Peak	Horizontal



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Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	7320.00	45.60	51.16	-5.56	54.00	-8.40	100	81 Average	Vertical
2	7320.00	52.20	57.76	-5.56	74.00	-21.80	100	81 Peak	Vertical

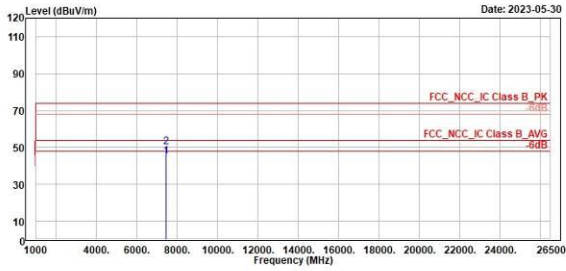
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



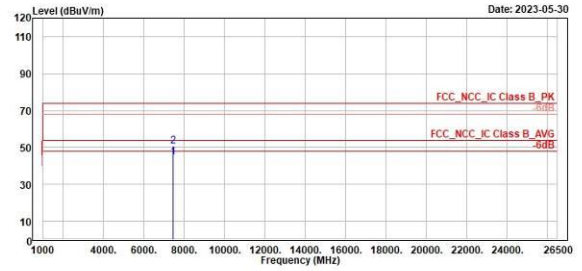
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1	7440.00	45.13	50.78	-5.65	54.00	-8.87	300	196	Average	Horizontal
2	7440.00	50.22	55.87	-5.65	74.00	-23.78	300	196	Peak	Horizontal



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1	7440.00	44.66	50.31	-5.65	54.00	-9.34	100	95	Average	Vertical
2	7440.00	50.82	56.47	-5.65	74.00	-23.18	100	95	Peak	Vertical

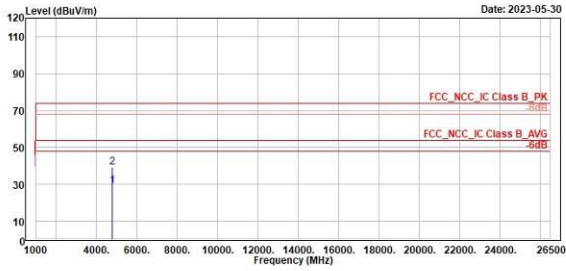
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



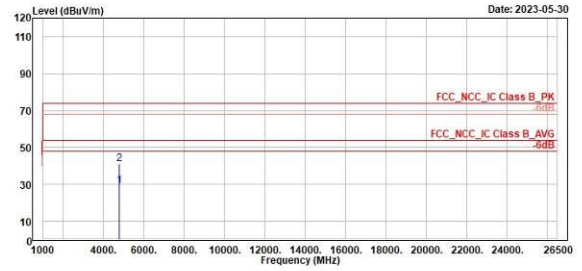
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4884.00	29.40	37.26	-7.86	54.00	-24.60	490	56 Average	Horizontal	
2	4884.00	39.10	46.96	-7.86	74.00	-34.90	490	56 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4884.00	29.26	37.12	-7.86	54.00	-24.74	100	360 Average	Vertical	
2	4884.00	41.10	48.96	-7.86	74.00	-32.90	100	360 Peak	Vertical	

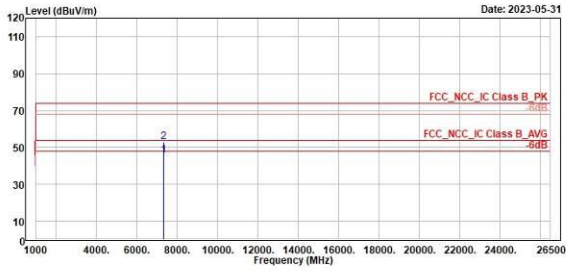
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



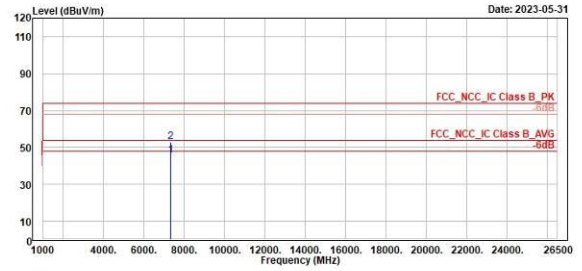
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1	2
7320.00	7320.00
45.55	52.71
51.11	58.27
-5.56	-5.56
54.00	74.00
-8.45	-21.29
300	300
198 Average	198 Peak
Horizontal	Horizontal



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1	2
7320.00	7320.00
45.59	52.73
51.15	58.29
-5.56	-5.56
54.00	74.00
-8.41	-21.27
100	100
87 Average	87 Peak
Vertical	Vertical

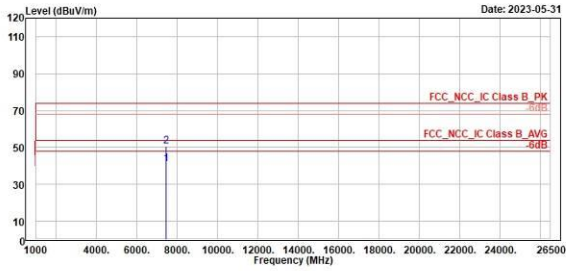
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



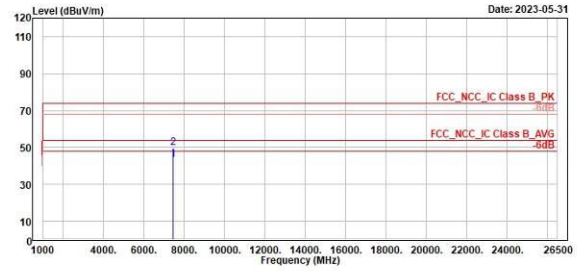
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Line	Freq	Level	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	41.10	46.75	-5.65	54.00	-12.90	387	299	Average	Horizontal	
2	7440.00	50.46	56.11	-5.65	74.00	-23.54	387	299	Peak	Horizontal	



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Line	Freq	Level	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	43.39	49.04	-5.65	54.00	-10.61	400	258	Average	Vertical	
2	7440.00	49.58	55.23	-5.65	74.00	-24.42	400	258	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

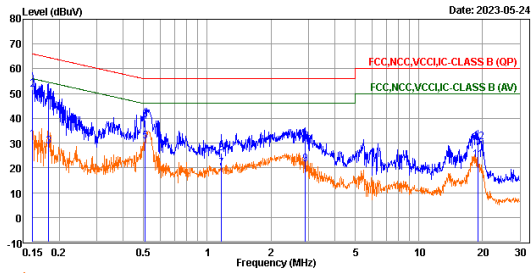
Worst Band

(Line)

(Neutral)



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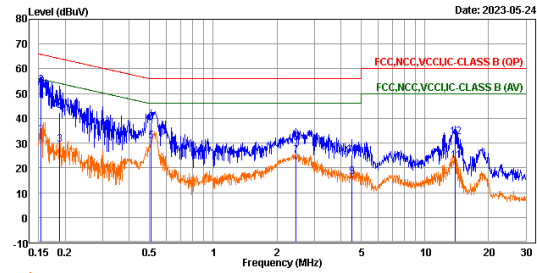


Trace: 1

	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.15	31.52	21.90	9.62	56.00	-24.48	Average	line1		
2	0.15	51.44	41.82	9.62	66.00	-14.56	QP	line1		
3	0.18	28.53	18.91	9.62	54.59	-26.06	Average	line1		
4	0.18	46.35	36.73	9.62	64.59	-18.24	QP	line1		
5	0.51	30.66	21.03	9.63	46.00	-15.34	Average	line1		
6	0.51	39.19	29.56	9.63	56.00	-16.81	QP	line1		
7	1.17	19.73	10.09	9.64	46.00	-26.27	Average	line1		
8	1.17	25.95	16.31	9.64	56.00	-30.05	QP	line1		
9	2.91	21.55	11.87	9.68	46.00	-24.45	Average	line1		
10	2.91	28.88	19.20	9.68	56.00	-27.12	QP	line1		
11	18.97	23.25	13.48	9.77	50.00	-26.75	Average	line1		
12	18.97	30.33	20.56	9.77	60.00	-29.67	QP	line1		



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Trace: 1

	Freq	Level	Read Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.15	33.40	23.78	9.62	55.79	-22.39	Average	neutral		
2	0.15	53.18	43.56	9.62	65.79	-12.61	QP	neutral		
3	0.19	29.19	19.57	9.62	54.10	-24.91	Average	neutral		
4	0.19	42.40	32.78	9.62	64.10	-21.70	QP	neutral		
5	0.51	30.63	21.00	9.63	46.00	-15.37	Average	neutral		
6	0.51	38.27	28.64	9.63	56.00	-17.73	QP	neutral		
7	2.46	24.75	15.08	9.67	46.00	-21.25	Average	neutral		
8	2.46	30.10	20.43	9.67	56.00	-25.00	QP	neutral		
9	4.54	16.52	6.81	9.71	46.00	-29.48	Average	neutral		
10	4.54	25.28	15.57	9.71	56.00	-30.72	QP	neutral		
11	13.92	22.76	12.94	9.82	50.00	-27.24	Average	neutral		
12	13.92	32.31	22.49	9.82	60.00	-27.69	QP	neutral		