

Appendix C: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test for Series Model No. DK-9181A

Band Edges, 2.31GHz ~ 2.5GHz

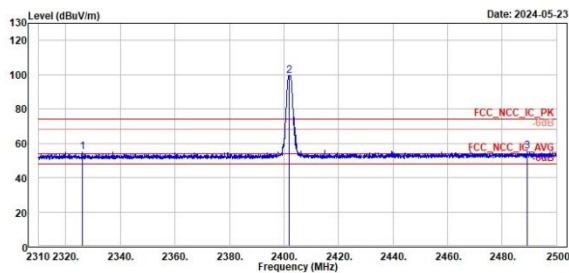
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



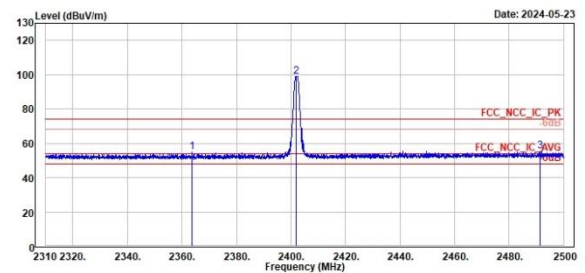
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2325.96	55.02	17.22	37.80	74.00	-18.98	138	116	Peak	Horizontal		
2 *	2402.00	99.40	61.30	38.10	74.00	25.40	138	116	Peak	Horizontal		
3	2489.27	55.24	16.92	38.32	74.00	-18.76	138	116	Peak	Horizontal		



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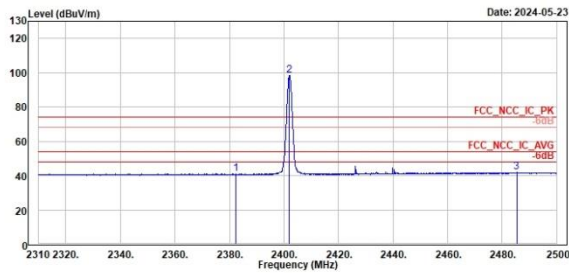
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2363.63	54.88	16.90	37.98	74.00	-19.12	344	267	Peak	Vertical		
2 *	2402.00	98.90	60.80	38.10	74.00	24.90	344	267	Peak	Vertical		
3	2491.26	55.50	17.18	38.32	74.00	-18.50	344	267	Peak	Vertical		

BLE_1M

Low Channel (Horizontal) Average



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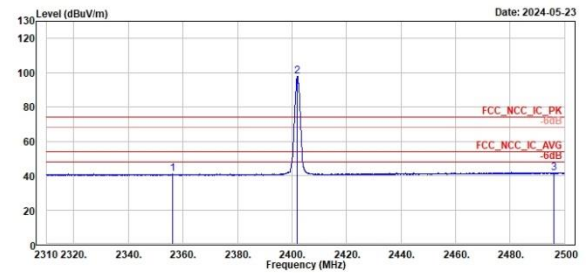


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2382.39	40.97	2.94	38.03	54.00	-13.03	138	116	Average	Horizontal		
2 *	2402.00	98.32	60.22	38.10	54.00	44.32	138	116	Average	Horizontal		
3	2485.32	41.78	3.46	38.32	54.00	-12.22	138	116	Average	Horizontal		

Low Channel (Vertical) Average



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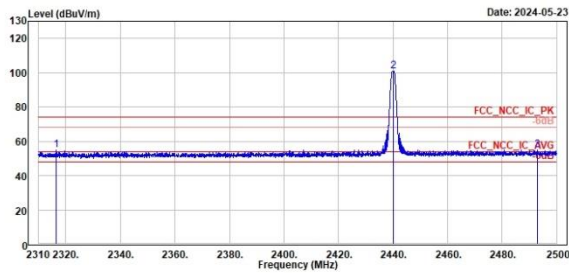
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2356.27	40.87	2.92	37.95	54.00	-13.13	344	267	Average	Vertical		
2 *	2402.00	97.72	59.62	38.10	54.00	43.72	344	267	Average	Vertical		
3	2496.01	41.75	3.43	38.32	54.00	-12.25	344	267	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Peak



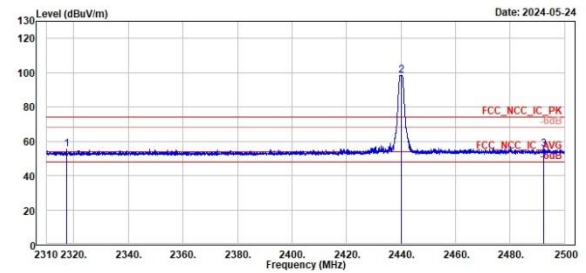
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2316.46	54.76	17.00	37.76	74.00	-19.24	335	121	Peak	Horizontal		
2 *	2440.00	100.91	62.61	38.30	74.00	26.91	335	121	Peak	Horizontal		
3	2493.07	55.10	16.79	38.31	74.00	-18.90	335	121	Peak	Horizontal		



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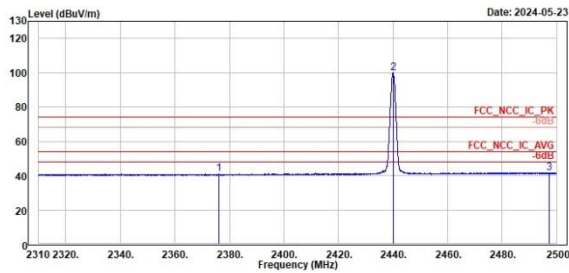
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1	2317.36	55.58	17.82	37.76	74.00	-18.42	378	176	Peak	Vertical		
2 *	2440.00	98.60	60.30	38.30	74.00	24.60	378	176	Peak	Vertical		
3	2492.26	55.16	16.84	38.32	74.00	-18.84	378	176	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



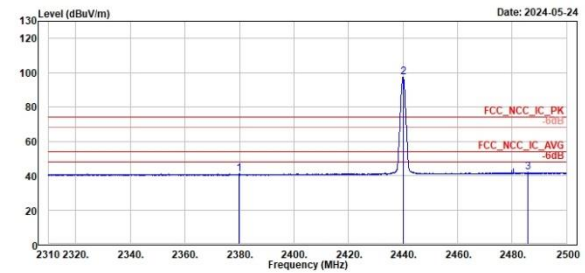
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.07	40.88	2.87	38.01	54.00	-13.12	335	121	Average	Horizontal		
2 *	2440.00	99.83	61.53	38.30	54.00	45.83	335	121	Average	Horizontal		
3	2497.15	41.59	3.27	38.32	54.00	-12.41	335	121	Average	Horizontal		



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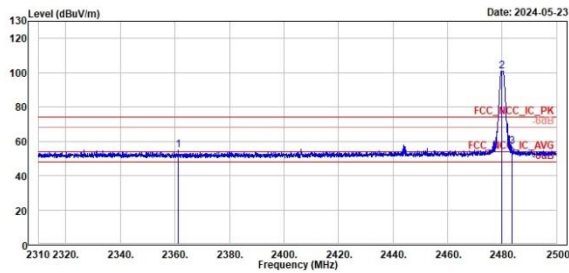
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2379.97	40.94	2.91	38.03	54.00	-13.06	378	176	Average	Vertical		
2 *	2440.00	97.47	59.17	38.30	54.00	43.47	378	176	Average	Vertical		
3	2485.89	41.79	3.47	38.32	54.00	-12.21	378	176	Average	Vertical		

BLE_1M

High Channel (Horizontal) Peak



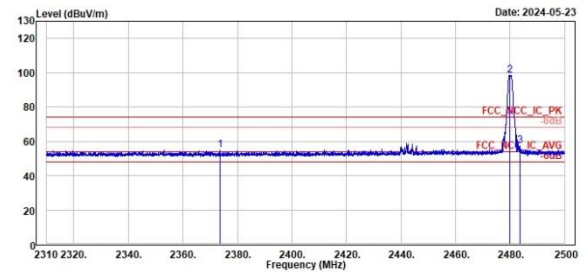
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2361.16	54.88	16.84	37.96	74.00	-19.20	317	111	Peak	Horizontal		
2 *	2480.00	100.85	62.52	38.33	74.00	26.85	317	111	Peak	Horizontal		
3	2483.57	56.78	18.46	38.32	74.00	-17.22	317	111	Peak	Horizontal		



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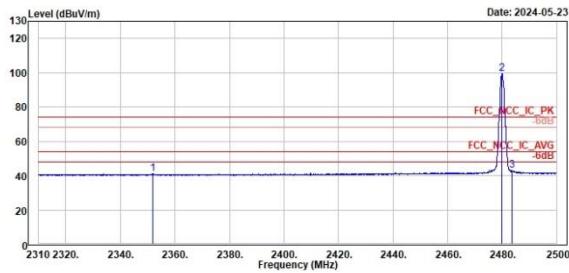
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1	2373.60	54.83	16.82	38.01	74.00	-19.17	361	181	Peak	Vertical		
2 *	2480.00	98.24	59.91	38.33	74.00	24.24	361	181	Peak	Vertical		
3	2483.50	57.31	18.99	38.32	74.00	-16.69	361	181	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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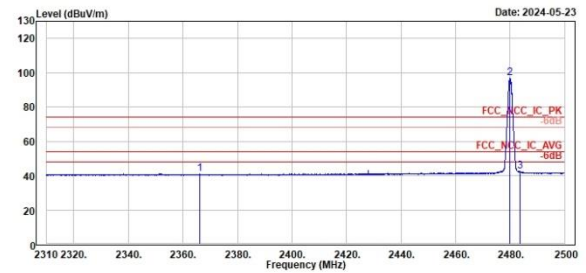


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2351.00	41.01	3.08	37.93	54.00	-12.99	317	111	Average	Horizontal		
2 *	2480.00	99.49	61.16	38.33	54.00	45.49	317	111	Average	Horizontal		
3	2483.71	43.07	4.75	38.32	54.00	-10.93	317	111	Average	Horizontal		

High Channel (Vertical) Average



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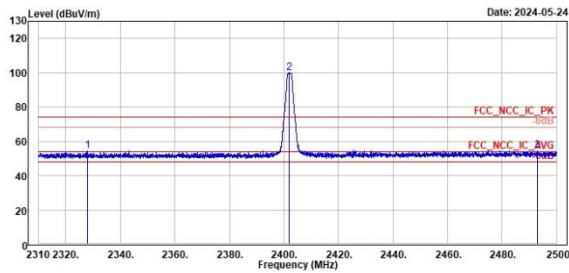
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2366.15	41.11	3.13	37.98	54.00	-12.89	361	181	Average	Vertical		
2 *	2480.00	97.10	58.77	38.33	54.00	43.10	361	181	Average	Vertical		
3	2483.66	42.61	4.29	38.32	54.00	-11.39	361	181	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



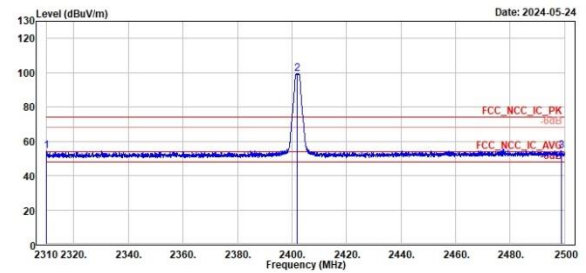
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2327.96	54.16	16.35	37.81	74.00	-19.84	198	126	Peak	Horizontal		
2 *	2402.00	99.87	61.77	38.10	74.00	25.87	198	126	Peak	Horizontal		
3	2493.07	54.40	16.09	38.31	74.00	-19.60	198	126	Peak	Horizontal		



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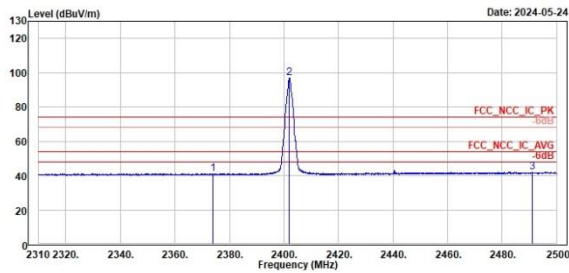
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2310.05	54.60	16.88	37.72	74.00	-19.40	344	265	Peak	Vertical		
2 *	2402.00	99.96	61.26	38.10	74.00	25.96	344	265	Peak	Vertical		
3	2498.86	54.61	16.30	38.31	74.00	-19.39	344	265	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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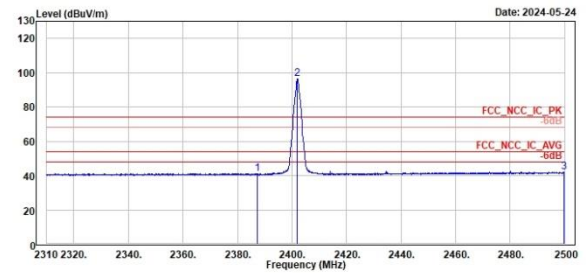


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2373.98	41.27	3.26	38.01	54.00	-12.73	198	126	Average	Horizontal	
2 *	2402.00	97.11	59.01	38.10	54.00	43.11	198	126	Average	Horizontal	
3	2491.12	41.98	3.66	38.32	54.00	-12.02	198	126	Average	Horizontal	

Low Channel (Vertical) Average



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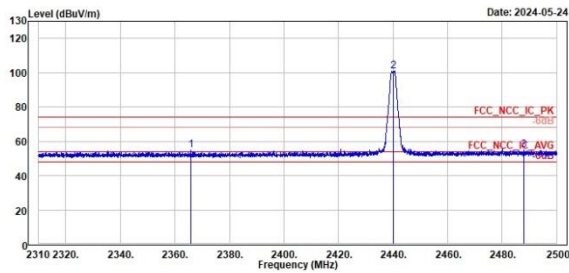
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.38	41.24	3.20	38.04	54.00	-12.76	344	265	Average	Vertical	
2 *	2402.00	96.56	58.46	38.10	54.00	42.56	344	265	Average	Vertical	
3	2499.72	42.16	3.85	38.31	54.00	-11.84	344	265	Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak



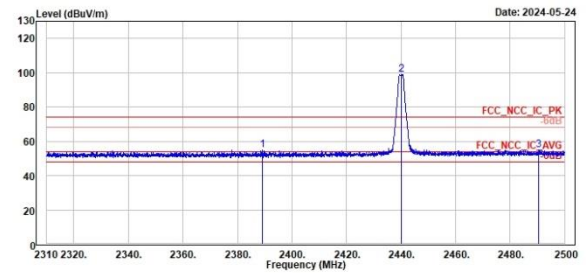
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2365.86	54.91	16.93	37.98	74.00	-19.09	139	122	Peak	Horizontal	
2 *	2440.00	100.63	62.33	38.30	74.00	26.63	139	122	Peak	Horizontal	
3	2487.89	54.66	16.34	38.32	74.00	-19.34	139	122	Peak	Horizontal	



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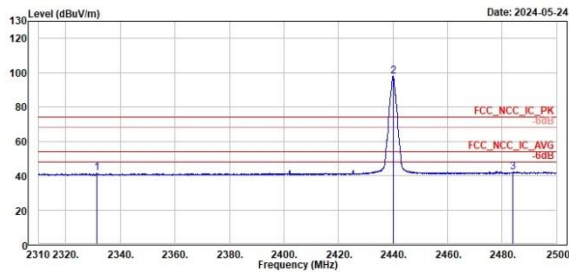
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.23	54.78	16.72	38.06	74.00	-19.22	376	182	Peak	Vertical	
2 *	2440.00	98.87	60.57	38.30	74.00	24.87	376	182	Peak	Vertical	
3	2490.45	55.08	16.76	38.32	74.00	-18.92	376	182	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



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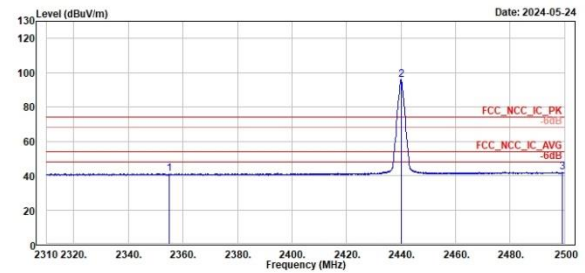


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.23	41.28	3.45	37.83	54.00	-12.72	139	122	Average	Horizontal		
2 *	2440.00	97.98	59.68	38.30	54.00	43.98	139	122	Average	Horizontal		
3	2483.99	42.16	3.84	38.32	54.00	-11.84	139	122	Average	Horizontal		

Middle Channel (Vertical) Average



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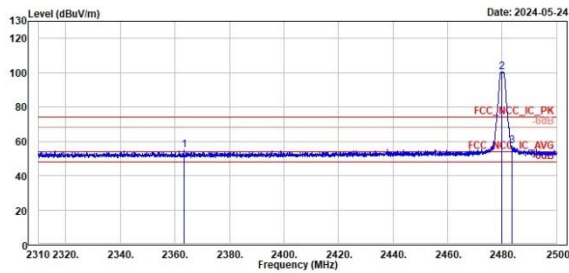
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2355.03	41.15	3.20	37.95	54.00	-12.85	376	182	Average	Vertical		
2 *	2440.00	96.02	57.72	38.30	54.00	42.02	376	182	Average	Vertical		
3	2499.19	41.89	3.58	38.31	54.00	-12.11	376	182	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak



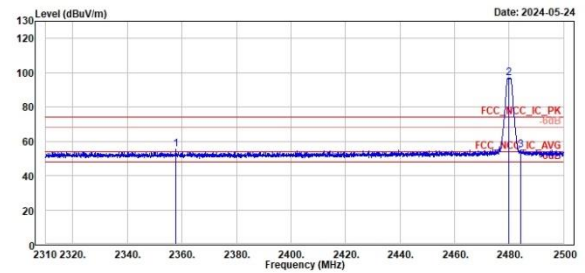
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2363.39	54.92	16.94	37.98	74.00	-19.08	286	114	Peak	Horizontal		
2 *	2480.00	100.33	62.00	38.33	74.00	26.33	286	114	Peak	Horizontal		
3	2483.61	57.39	19.07	38.32	74.00	-16.61	286	114	Peak	Horizontal		



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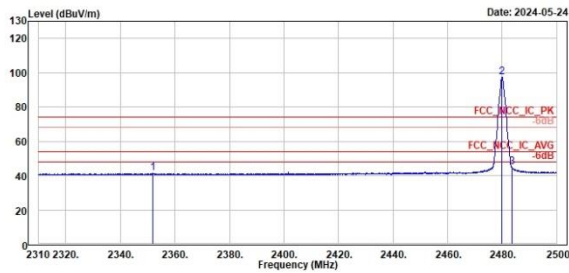
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2357.69	55.17	17.21	37.96	74.00	-18.83	371	173	Peak	Vertical		
2 *	2480.00	96.01	58.68	38.33	74.00	22.01	371	173	Peak	Vertical		
3	2484.33	54.94	16.62	38.32	74.00	-19.06	371	173	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



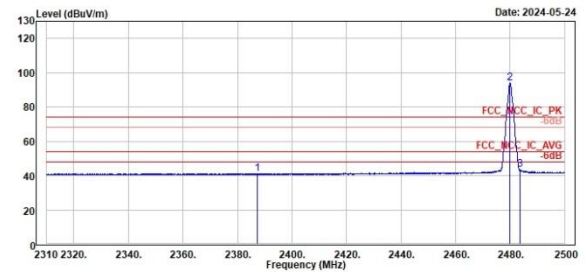
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High Channel (Vertical) Average



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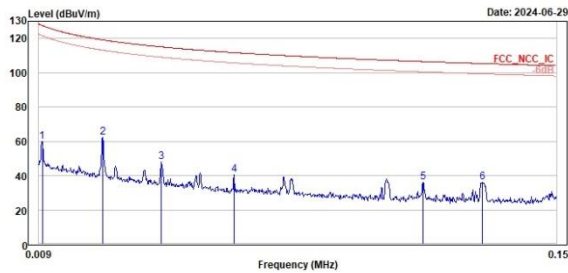
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_1M

High Channel (Open) 9kHz~150kHz



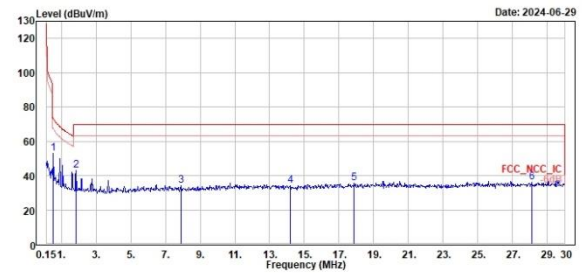
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	59.88	41.57	18.31	127.60	-67.72	100	68	Peak	Open		
2	0.03	62.28	42.47	19.81	119.13	-56.85	100	228	Peak	Open		
3	0.04	47.98	28.47	19.51	115.07	-67.09	100	316	Peak	Open		
4	0.06	40.75	21.95	18.80	111.72	-70.97	100	90	Peak	Open		
5	0.11	35.88	17.27	18.61	106.49	-70.61	100	233	Peak	Open		
6	0.13	36.31	17.60	18.71	105.33	-69.02	100	0	Peak	Open		



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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	cm	deg				
1	0.54	52.93	33.77	19.16	72.99	-20.06	100	182	Peak	Open		
2	1.85	42.83	23.79	19.04	69.50	-26.67	100	169	Peak	Open		
3	7.88	34.10	13.21	20.89	69.50	-35.40	100	143	Peak	Open		
4	14.21	34.34	12.84	21.50	69.50	-35.16	100	230	Peak	Open		
5	17.88	35.40	12.89	22.51	69.50	-34.10	100	355	Peak	Open		
6	28.09	35.94	12.90	23.04	69.50	-33.56	100	89	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

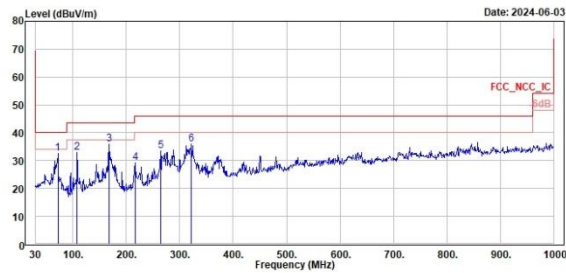
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



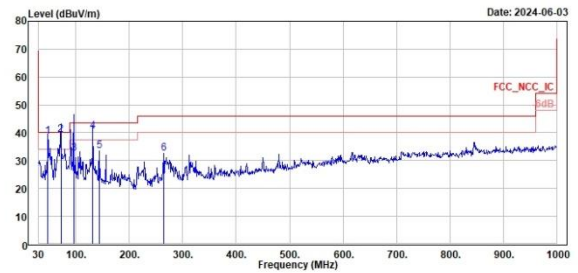
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	71.71	32.59	41.65	-9.06	40.00	-7.41	200	245	Peak	Horizontal		
2	107.60	32.98	42.95	-9.97	43.50	-10.52	200	228	Peak	Horizontal		
3	167.74	35.89	41.53	-5.64	43.50	-7.61	200	75	Peak	Horizontal		
4	216.24	29.18	37.55	-8.37	46.00	-16.82	100	263	Peak	Horizontal		
5	263.77	33.43	39.88	-6.45	46.00	-12.57	100	81	Peak	Horizontal		
6	321.97	35.99	40.81	-4.82	46.00	-10.01	100	62	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	47.46	38.68	44.76	-6.08	40.00	-1.32	100	154	QP	Vertical		
2	71.71	39.14	48.20	-9.06	40.00	-0.86	100	300	QP	Vertical		
3	95.96	32.68	44.31	-11.63	43.50	-10.82	100	201	QP	Vertical		
4	131.85	40.56	48.15	-7.59	43.50	-2.94	200	360	QP	Vertical		
5	143.49	33.58	39.90	-6.32	43.50	-9.92	200	360	Peak	Vertical		
6	263.77	32.54	38.99	-6.45	46.00	-13.46	100	144	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

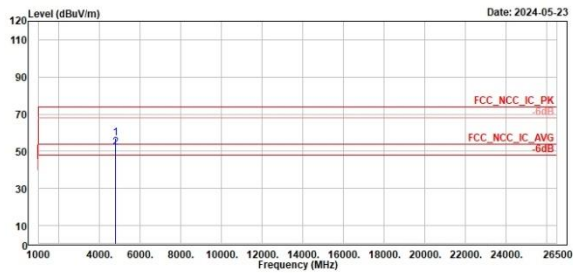
BLE_1M

Low Channel (Horizontal)

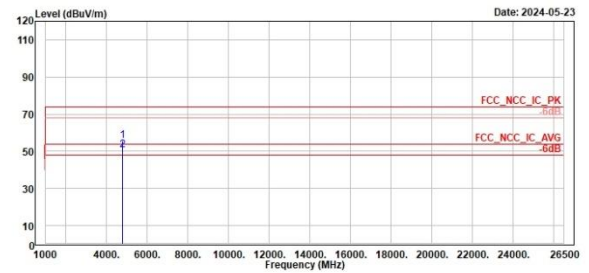
Low Channel (Vertical)



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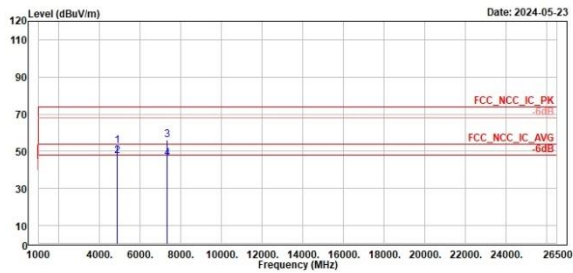


BLE_1M

Middle Channel (Horizontal)



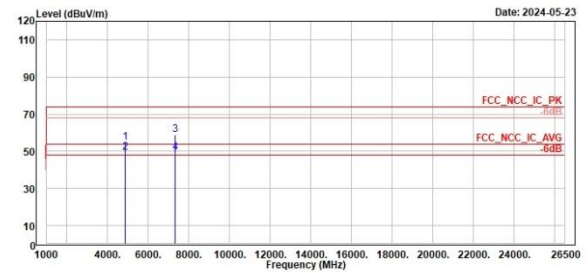
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	52.84	68.78	-7.94	74.00	-21.16	480	216	Peak	Horizontal	
2	4880.00	47.37	55.31	-7.94	54.00	-6.63	480	216	Average	Horizontal	
3	7320.00	55.99	61.37	-5.38	74.00	-18.01	100	99	Peak	Horizontal	
4	7320.00	45.91	51.29	-5.38	54.00	-8.09	100	99	Average	Horizontal	



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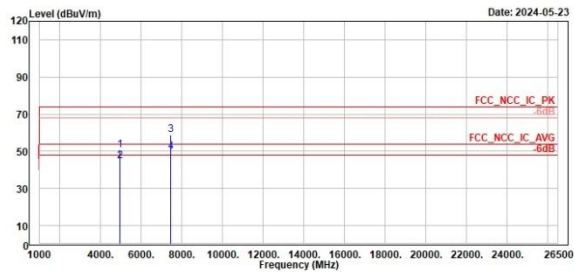
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	54.55	62.49	-7.94	74.00	-19.45	480	118	Peak	Vertical	
2	4880.00	49.40	57.34	-7.94	54.00	-4.60	480	118	Average	Vertical	
3	7320.00	59.03	64.41	-5.38	74.00	-14.97	320	23	Peak	Vertical	
4	7320.00	49.42	54.80	-5.38	54.00	-4.58	320	23	Average	Vertical	

BLE_1M

High Channel (Horizontal)



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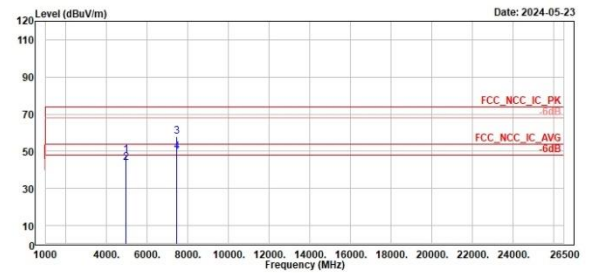


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	50.68	58.49	-7.81	74.00	-23.32	100	51	Peak	Horizontal		
2	4960.00	44.70	52.51	-7.81	54.00	-9.30	100	51	Average	Horizontal		
3	7440.00	58.87	64.28	-5.41	74.00	-15.13	100	71	Peak	Horizontal		
4	7440.00	49.72	55.13	-5.41	54.00	-4.28	100	71	Average	Horizontal		

High Channel (Vertical)



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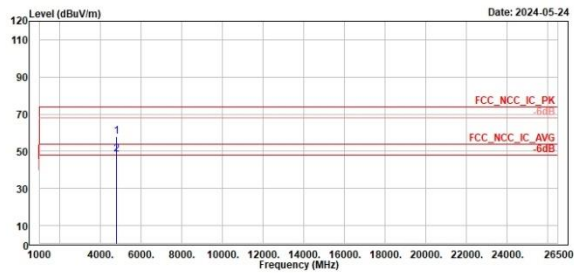
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	48.12	55.93	-7.81	74.00	-25.88	348	101	Peak	Vertical		
2	4960.00	43.86	51.67	-7.81	54.00	-10.14	348	101	Average	Vertical		
3	7440.00	57.74	63.15	-5.41	74.00	-16.26	100	27	Peak	Vertical		
4	7440.00	49.59	55.00	-5.41	54.00	-4.41	100	27	Average	Vertical		

BLE_2M

Low Channel (Horizontal)



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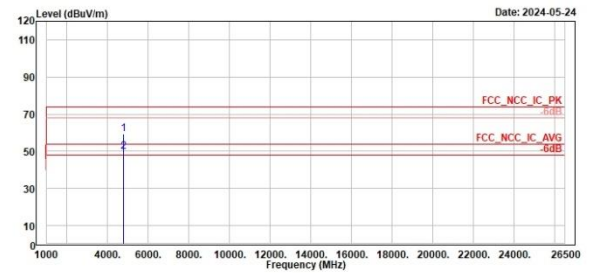


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1 4894.00	57.84	65.86	-8.02	74.00	-16.16	369	224	Peak	Horizontal		
2 4894.00	48.32	56.34	-8.02	54.00	-5.68	369	224	Average	Horizontal		

Low Channel (Vertical)



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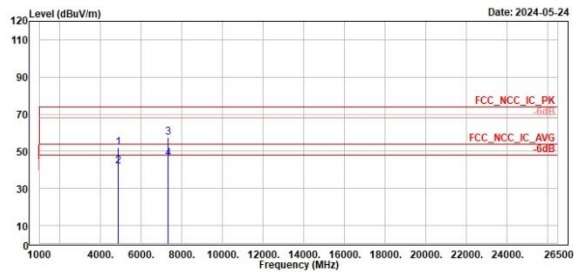
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1 4894.00	59.36	67.38	-8.02	74.00	-14.64	387	116	Peak	Vertical		
2 4894.00	49.98	57.92	-8.02	54.00	-4.10	387	116	Average	Vertical		

BLE_2M

Middle Channel (Horizontal)



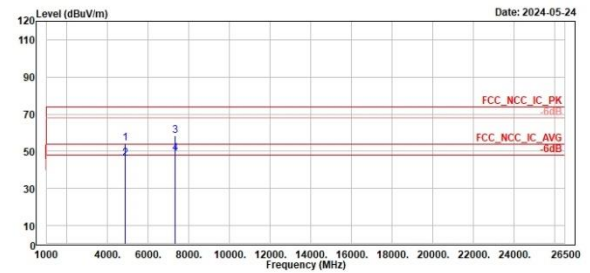
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	51.84	59.78	-7.94	74.00	-22.16	300	35	Peak	Horizontal	
2	4880.00	41.88	49.82	-7.94	54.00	-12.12	300	35	Average	Horizontal	
3	7320.00	57.55	62.93	-5.38	74.00	-16.45	100	63	Peak	Horizontal	
4	7320.00	46.22	51.60	-5.38	54.00	-7.78	100	63	Average	Horizontal	



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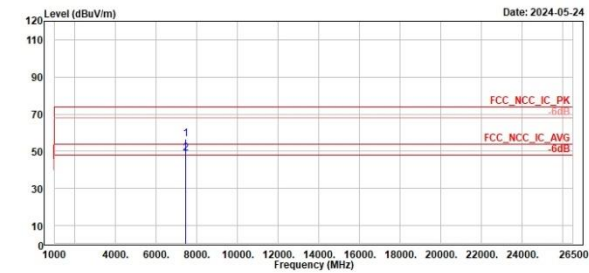
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	54.44	62.38	-7.94	74.00	-19.56	400	115	Peak	Vertical	
2	4880.00	45.95	53.89	-7.94	54.00	-8.05	400	115	Average	Vertical	
3	7320.00	58.23	63.61	-5.38	74.00	-15.77	100	15	Peak	Vertical	
4	7320.00	48.86	54.24	-5.38	54.00	-5.14	100	15	Average	Vertical	

BLE_2M

High Channel (Horizontal)



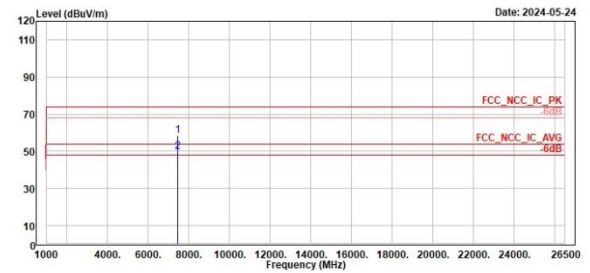
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	56.55	61.96	-5.41	74.00	-17.45	100	85	Peak	Horizontal	
2	7440.00	48.78	54.19	-5.41	54.00	-5.22	100	85	Average	Horizontal	



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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	7440.00	58.45	63.86	-5.41	74.00	-15.55	100	297	Peak	Vertical	
2	7440.00	49.78	55.11	-5.41	54.00	-4.30	100	297	Average	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

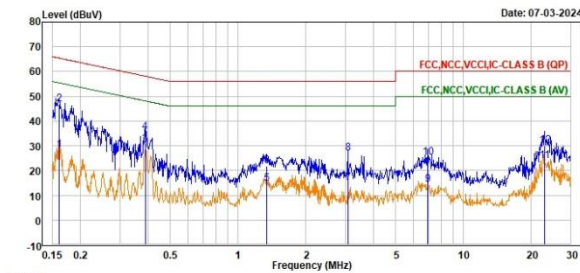
Worst Band

(Line)

(Neutral)



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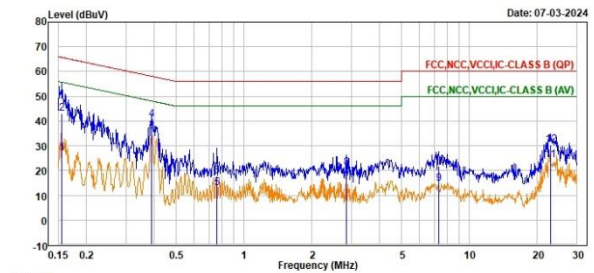


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	28.25	18.62	9.63	55.42	-27.17 Average	line1
2	0.16	46.77	37.14	9.63	65.42	-18.65 QP	line1
3	0.39	30.27	20.64	9.63	48.13	-17.86 Average	line1
4	0.39	35.46	25.83	9.63	58.13	-22.67 QP	line1
5	1.34	14.72	5.08	9.64	46.00	-31.28 Average	line1
6	1.34	21.99	12.35	9.64	56.00	-34.01 QP	line1
7	3.08	15.10	5.42	9.68	46.00	-30.90 Average	line1
8	3.08	26.81	17.13	9.68	56.00	-29.19 QP	line1
9	6.93	14.32	4.60	9.72	50.00	-35.68 Average	line1
10	6.93	25.32	15.60	9.72	60.00	-34.68 QP	line1
11	22.92	23.99	14.24	9.75	50.00	-26.01 Average	line1
12	22.92	30.16	20.41	9.75	60.00	-29.84 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	dBuV	dB		
1	0.16	27.07	17.44	9.63	55.71	-28.64 Average	neutral
2	0.16	43.02	33.39	9.63	65.71	-22.69 QP	neutral
3	0.39	35.79	26.16	9.63	48.09	-12.30 Average	neutral
4	0.39	40.72	31.09	9.63	58.09	-17.37 QP	neutral
5	0.76	12.82	3.18	9.64	46.00	-33.18 Average	neutral
6	0.76	17.61	7.97	9.64	56.00	-38.39 QP	neutral
7	2.05	15.19	5.51	9.68	46.00	-30.81 Average	neutral
8	2.05	21.20	11.52	9.68	56.00	-34.00 QP	neutral
9	7.32	14.48	4.73	9.75	50.00	-35.52 Average	neutral
10	7.32	21.84	12.09	9.75	60.00	-38.16 QP	neutral
11	22.92	24.20	14.34	9.86	50.00	-25.80 Average	neutral
12	22.92	30.29	20.43	9.86	60.00	-29.71 QP	neutral