

Appendix D: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test for Series Model No. DK-9183B

Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

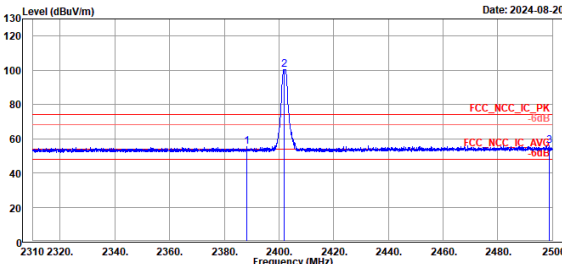
Low Channel (Horizontal) Peak

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

Level (dBuV/m)

Date: 2024-08-20



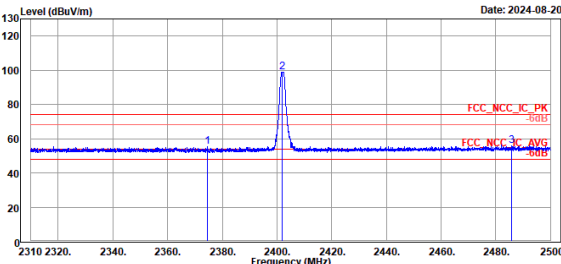
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.28	55.51	17.49	38.02	74.00	-18.49	343	123 Peak	Horizontal
2 *	2402.00	100.34	62.27	38.07	74.00	26.34	343	123 Peak	Horizontal
3	2498.72	55.68	17.41	38.27	74.00	-18.32	343	123 Peak	Horizontal

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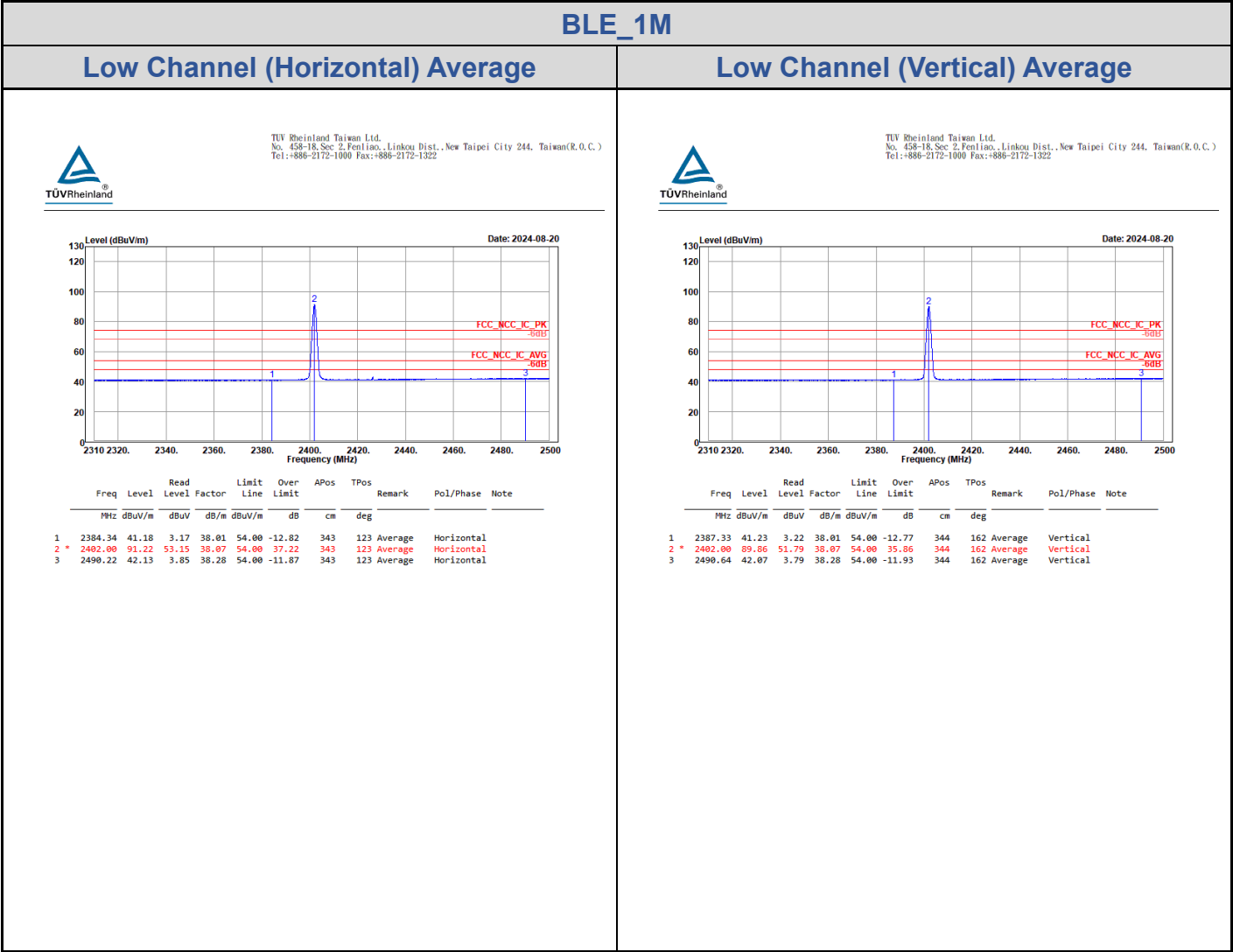
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Tel: +886-2172-1000 Fax: +886-2172-1322

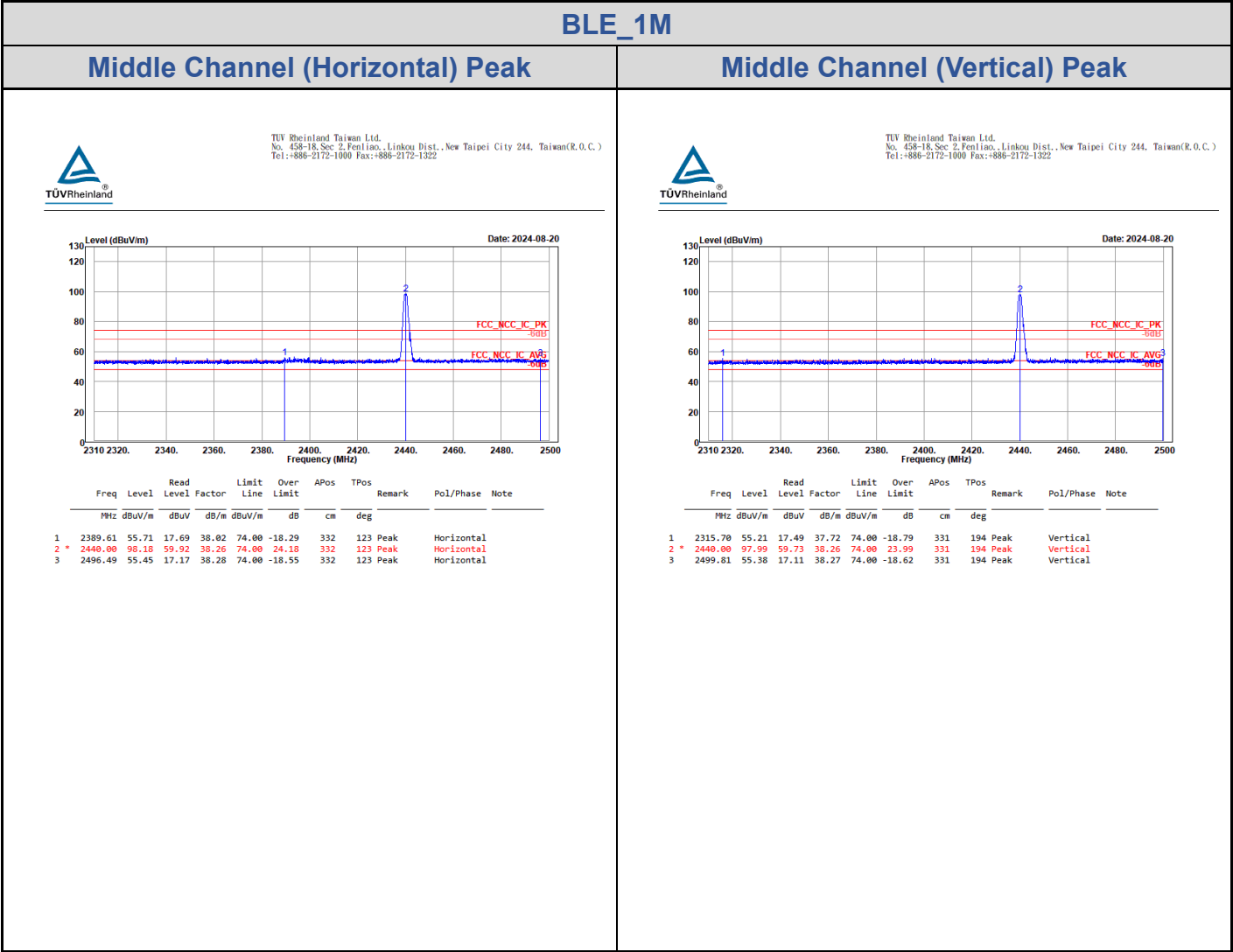
Level (dBuV/m)

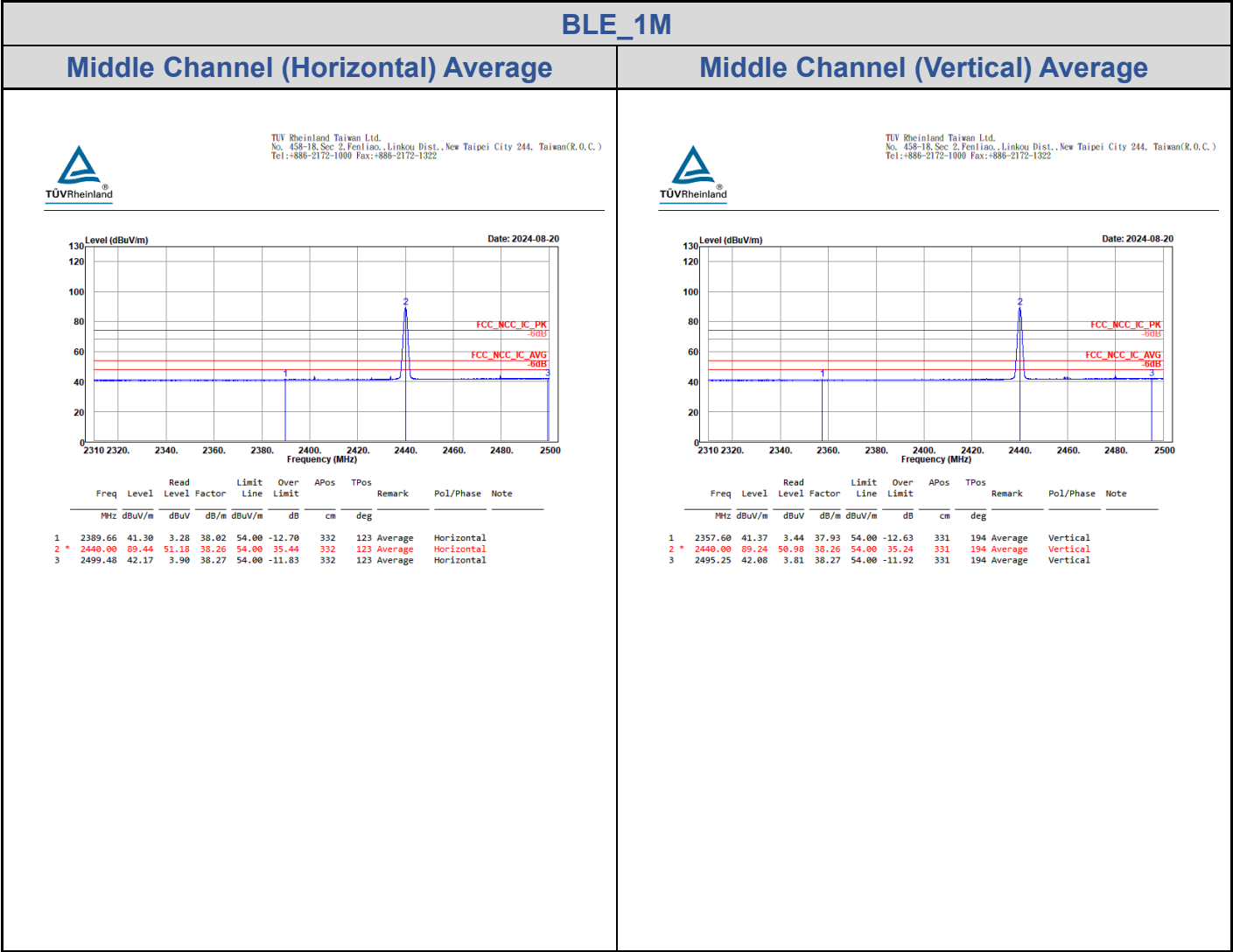
Date: 2024-08-20

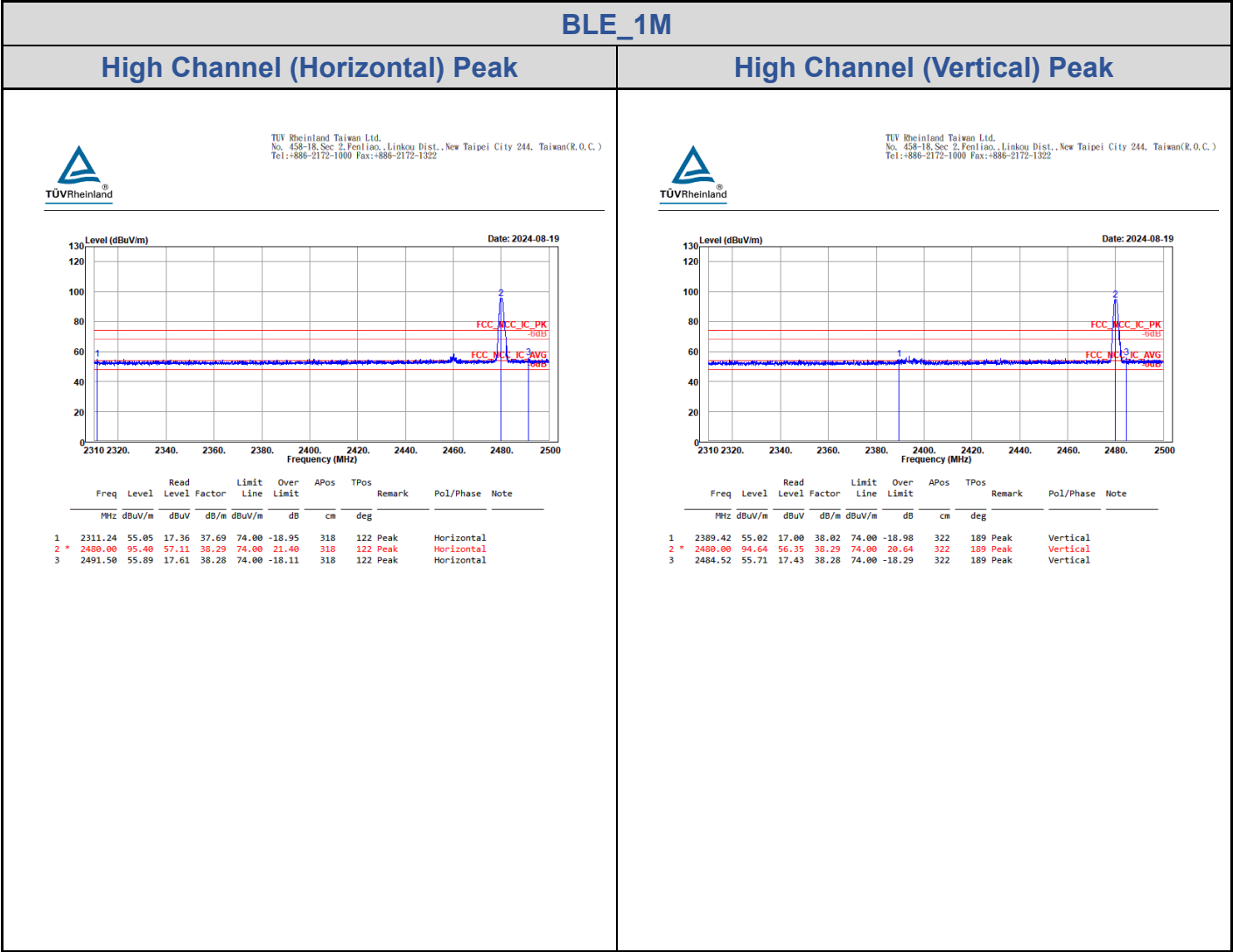


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2374.46	55.35	17.37	37.98	74.00	-18.65	344	162 Peak	Vertical
2 *	2402.00	98.00	60.73	38.07	74.00	24.00	344	162 Peak	Vertical
3	2485.75	56.01	17.73	38.28	74.00	-17.99	344	162 Peak	Vertical



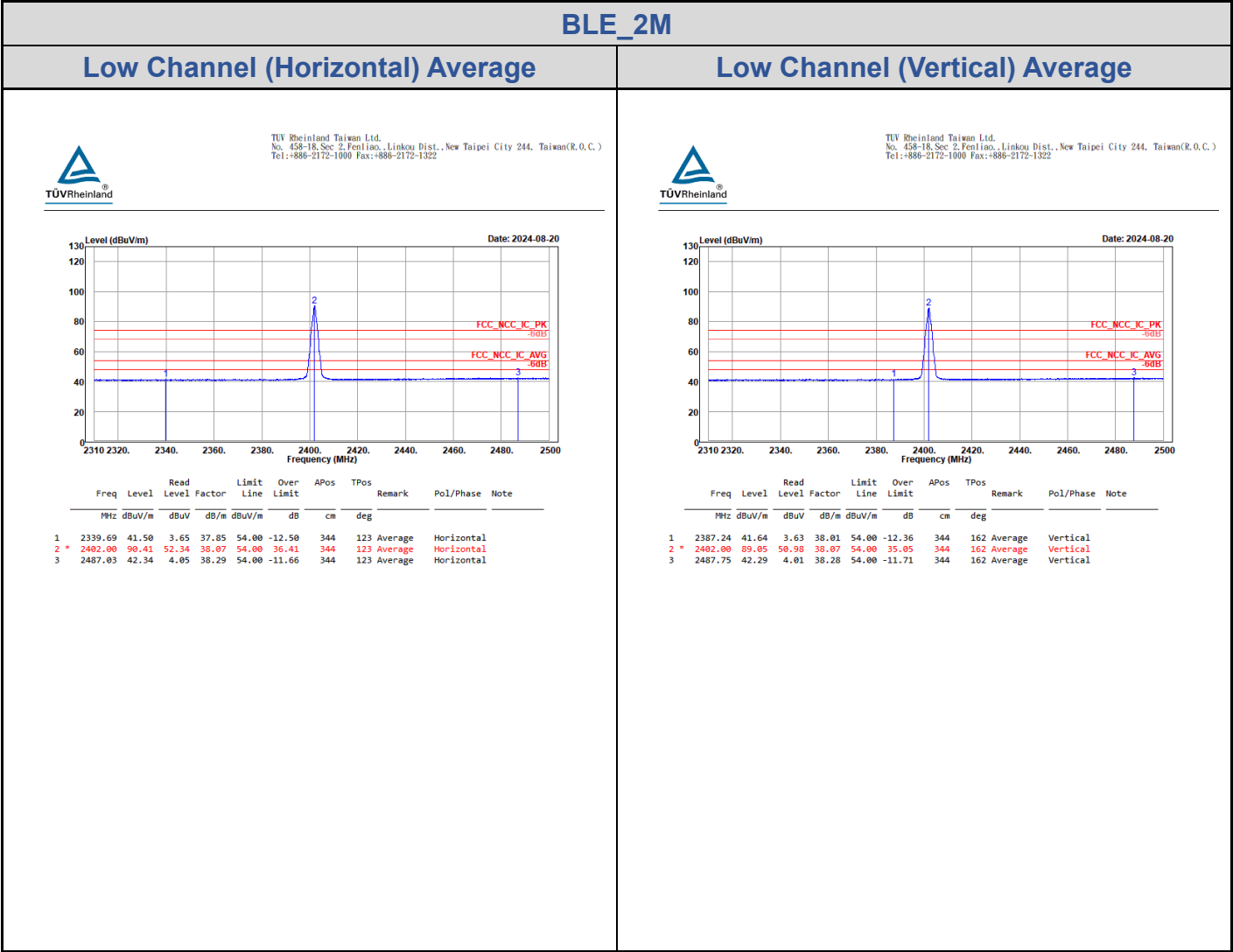






	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
			Level		Line	Limit					
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2335.13	41.29	3.47	37.82	54.00	-12.71	322	189	Average	Vertical	
2 *	2480.00	86.32	48.03	38.29	54.00	32.32	322	189	Average	Vertical	
3	2488.84	42.01	3.73	38.28	54.00	-11.99	322	189	Average	Vertical	

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
			Level		Line	Limit					
	MHz	dBmV/m	dBuV	dB/m	dBmV/m	dB	cm	deg			
1	2350.90	54.49	16.59	37.90	74.00	-19.51	344	162	Peak	Vertical	
2	2402.00	98.76	60.69	38.07	74.00	24.76	344	162	Peak	Vertical	
3	2497.63	55.44	17.17	38.27	74.00	-18.56	344	162	Peak	Vertical	

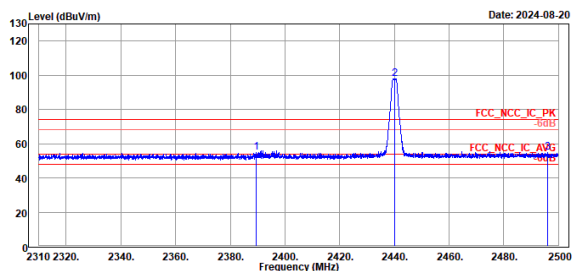


BLE_2M

Middle Channel (Horizontal) Peak



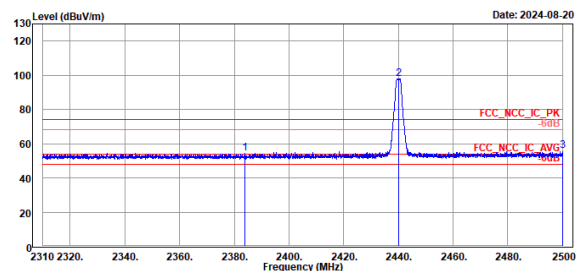
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Tel: +886-2172-1000 Fax: +886-2172-1322



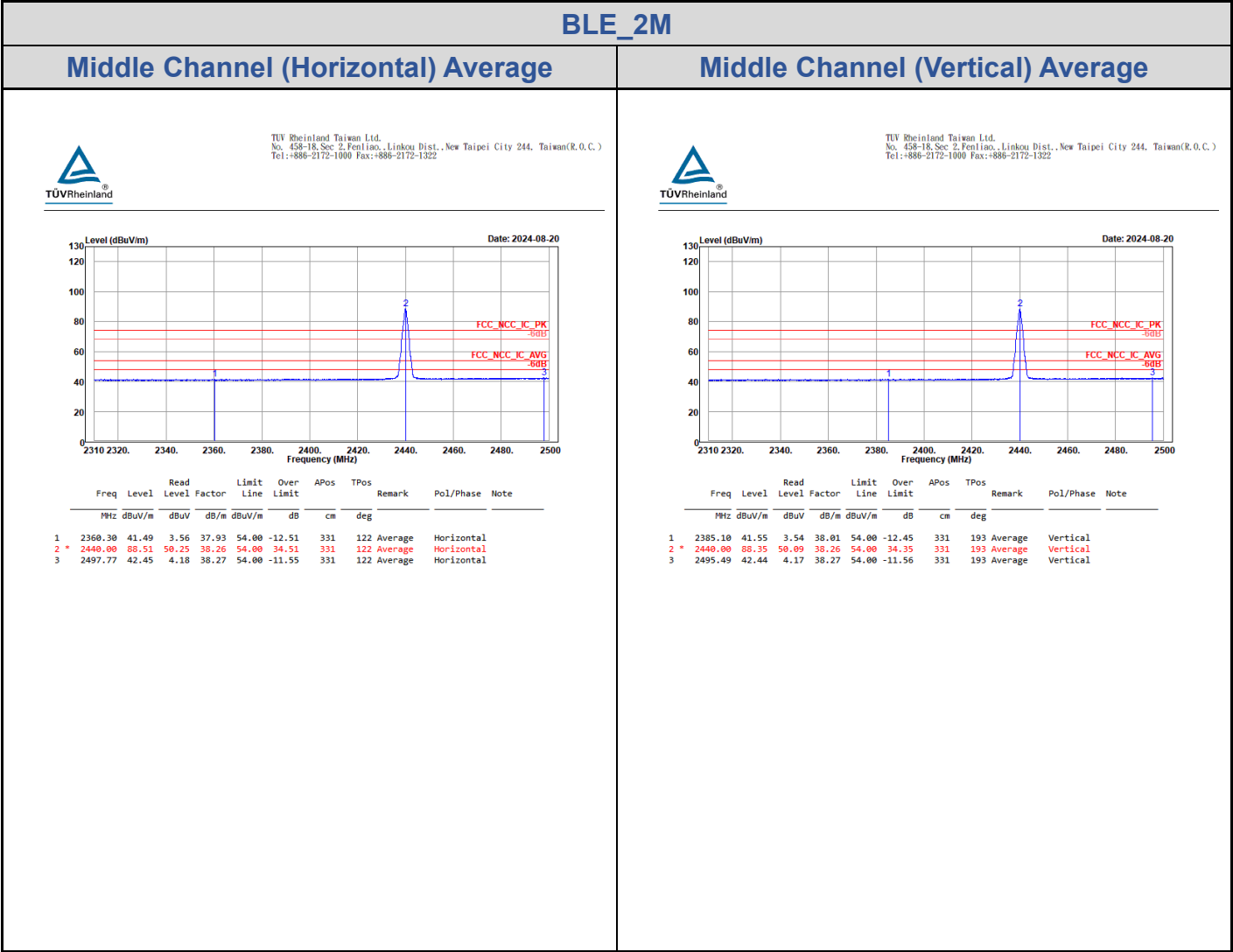
	Freq	Level	Read Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBmV/m	dBuV	dBmV/m	dB	cm	deg			
1	2389.33	55.06	17.04	38.02	74.00	-18.94	331	122 Peak	Horizontal	
2 *	2440.00	98.10	59.84	38.26	74.00	24.10	331	122 Peak	Horizontal	
3	2495.92	54.81	16.53	38.28	74.00	-19.19	331	122 Peak	Horizontal	



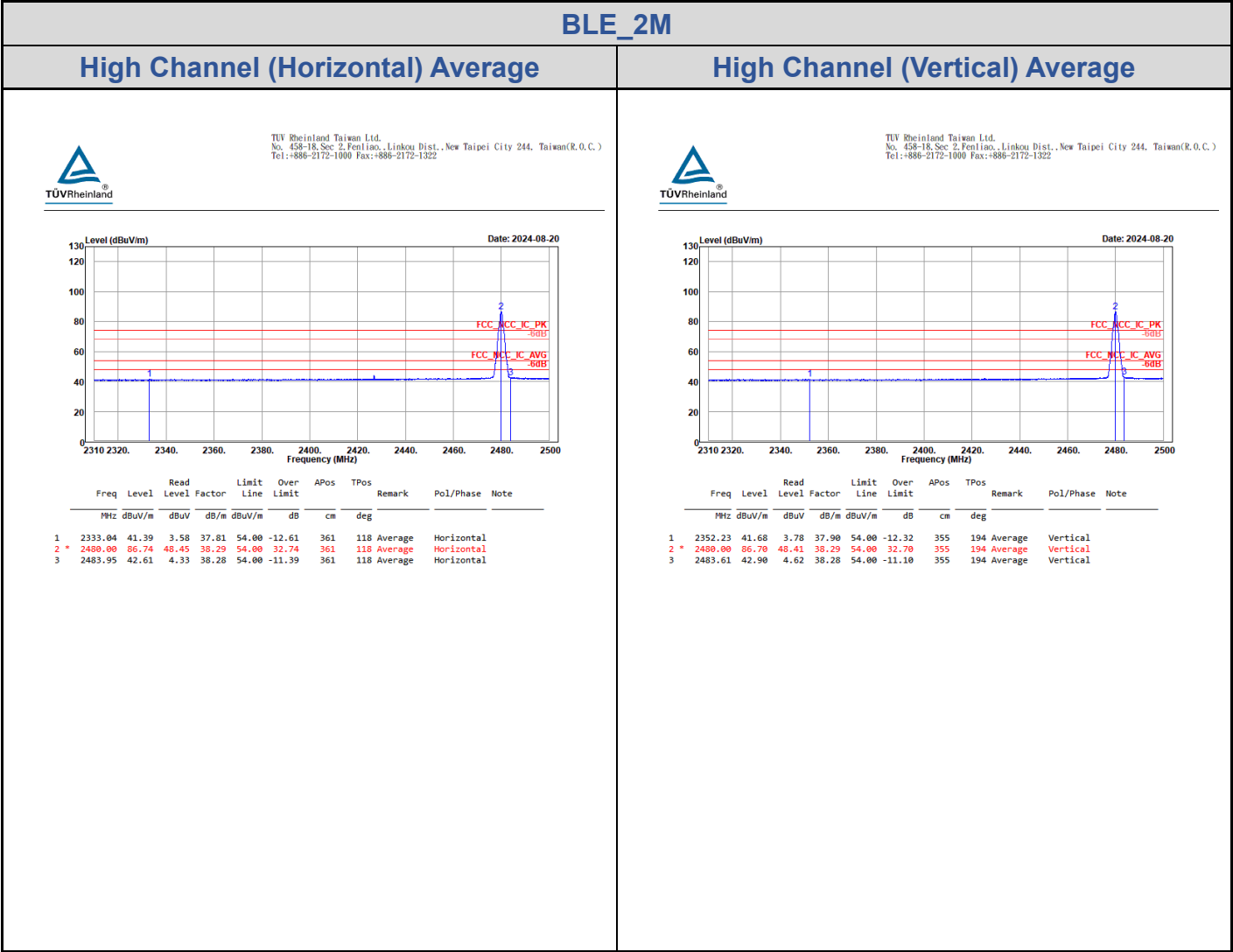
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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
			dBm		Line	Limit					
	MHz		dBuV	dB/m	dBm	dB	cm	deg			
1	2383.82	54.40	16.39	38.01	74.00	-19.60	331	193	Peak	Vertical	
2	2440.00	97.96	59.70	38.26	74.00	23.96	331	193	Peak	Vertical	
3	2500.00	55.83	17.56	38.27	74.00	-18.17	331	193	Peak	Vertical	



	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	2384.10	55.70	17.69	38.01	74.00	-18.30	355	194	Peak	Vertical	
2	* 2480.00	95.98	57.69	38.29	74.00	21.98	355	194	Peak	Vertical	
3	2487.98	54.94	16.66	38.28	74.00	-19.06	355	194	Peak	Vertical	



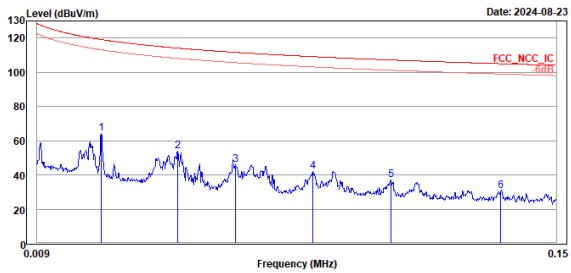
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz



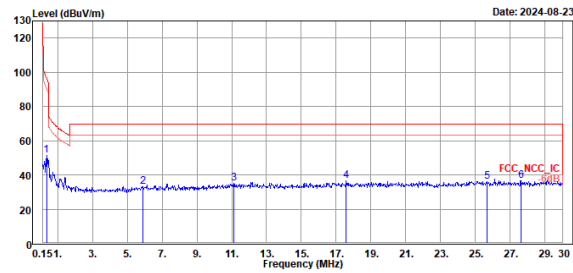
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Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Rd Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.03	64.49	44.68	19.81	119.13	-54.64	100	113 Peak	Open		
2	0.05	53.71	34.19	19.52	114.11	-60.44	100	263 Peak	Open		
3	0.06	64.49	27.24	18.79	111.61	-65.58	100	190 Peak	Open		
4	0.08	42.22	23.66	18.56	109.12	-66.90	100	382 Peak	Open		
5	0.11	37.31	18.18	18.56	107.17	-69.80	100	278 Peak	Open		
6	0.13	30.62	11.88	18.74	105.00	-74.38	100	0 Peak	Open		



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Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/mV	dBuV	dB/m	dBu/mV	dB	cm	deg			
0	0.36	51.17	32.66	19.11	96.50	-45.33	100	178	Peak	Open	
1	5.9	33.32	12.48	20.85	69.50	-38.18	100	78	Peak	Open	
2	11.10	35.05	13.50	21.55	69.50	-34.45	100	215	Peak	Open	
3	17.58	36.50	14.07	22.45	69.50	-32.98	100	353	Peak	Open	
4	25.67	36.29	13.91	22.94	69.50	-33.12	100	178	Peak	Open	
5	34.12	36.50	14.07	22.45	69.50	-32.98	100	215	Peak	Open	
6	27.61	36.50	13.47	23.03	69.50	-33.00	100	134	Peak	Open	

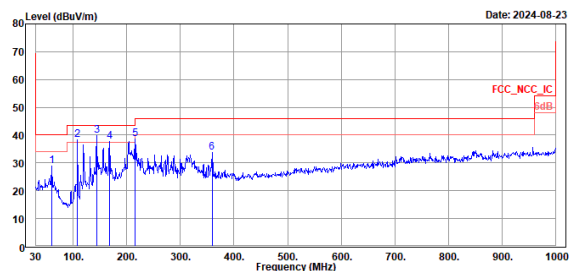
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE 2M

High Channel (Horizontal)



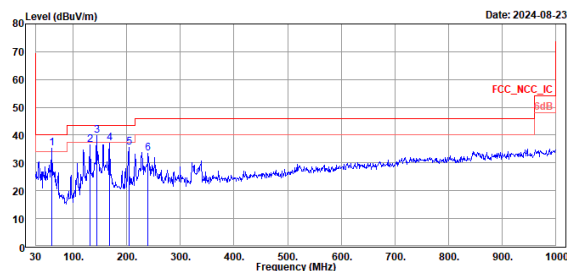
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Tel: +886-2172-1000 Fax: +886-2172-1322



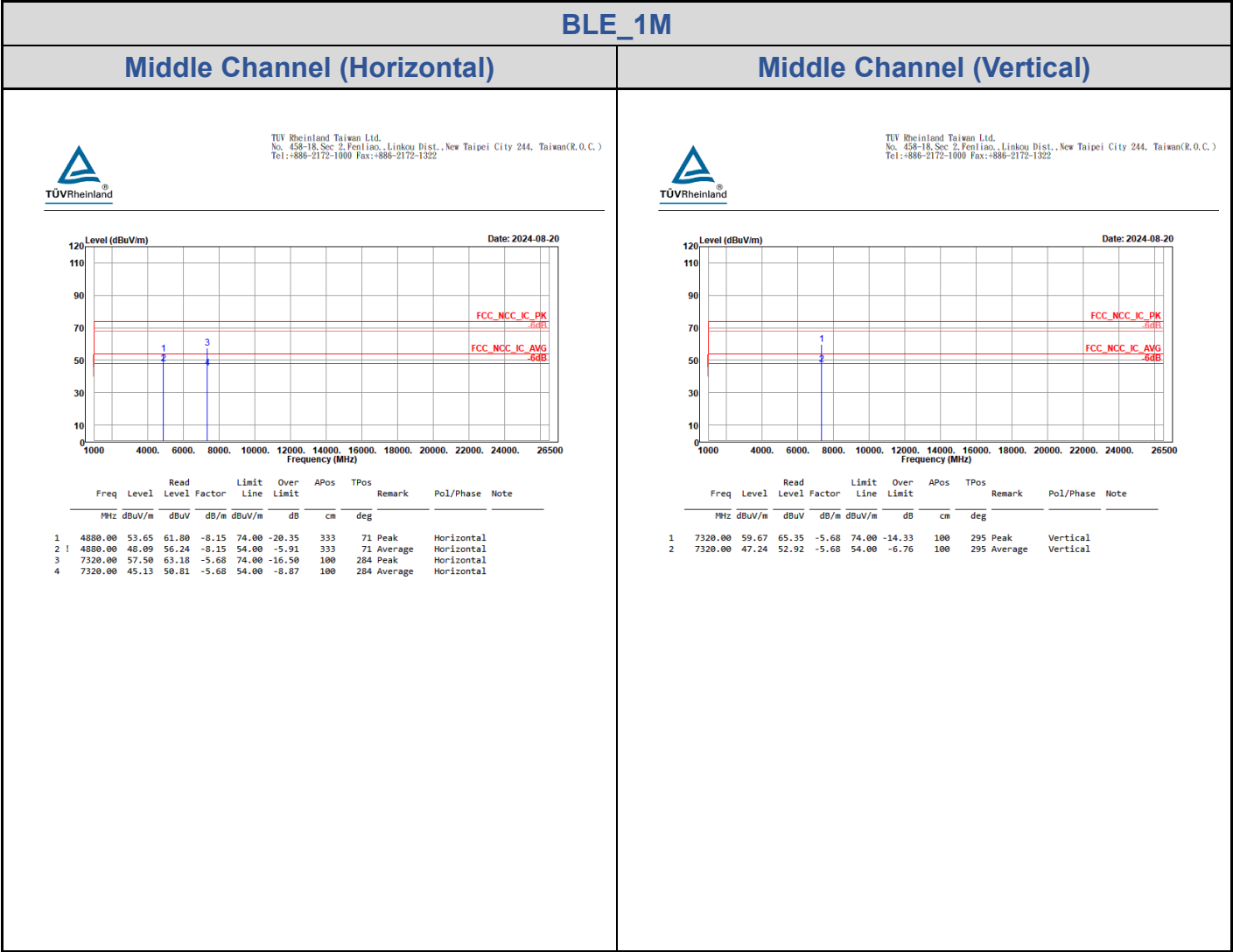
	Freq	Level	Read Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	68.07	28.81	35.18	-6.37	40.00	-11.19	100	125 Peak		Horizontal
2	187.66	26.26	43.43	-17.17	43.50	-15.24	100	125 Peak		Horizontal
3	143.49	35.95	46.27	-6.32	43.50	-3.55	100	284 Peak		Horizontal
4	167.74	37.69	43.33	-5.64	43.50	-5.81	100	276 Peak		Horizontal
5	215.27	38.49	44.00	-6.30	43.50	-5.81	100	276 Peak		Horizontal
6	358.83	38.88	38.02	-4.14	46.00	-12.12	100	292 Peak		Horizontal



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Tel:+886-2172-1000 Fax:+886-2172-1322

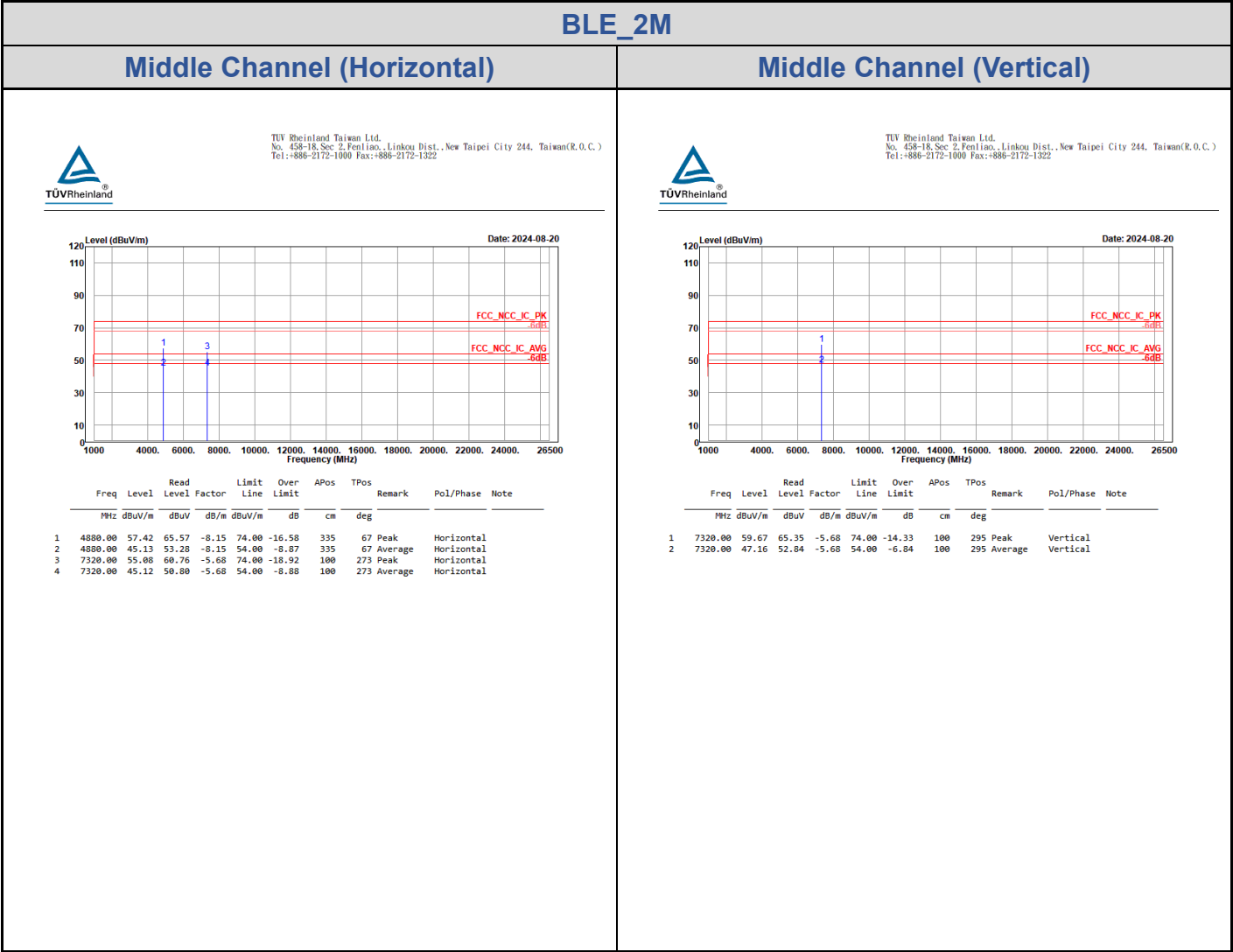


	Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.10	35.24	41.51	-6.27	40.50	-4.76	100	31 Peak	Vertical	
1	131.80	35.51	44.10	-6.39	43.50	-6.49	100	31 Peak	Vertical	
1	143.49	35.75	46.07	-6.32	43.50	-3.75	100	282 Peak	Vertical	
4	167.74	37.07	42.71	-5.64	43.50	-6.43	100	254 Peak	Vertical	
5	203.63	35.55	42.71	-5.54	43.50	-6.83	100	282 Peak	Vertical	
6	239.52	35.50	42.32	-6.77	46.00	-12.45	100	337 Peak	Vertical	



	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	7440.00	58.72	64.45	-5.73	74.00	-15.28	269	5	Peak	Vertical	
2	7440.00	47.92	53.65	-5.73	54.00	-6.08	269	5	Average	Vertical	

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV		dBuV/m	dB		deg			
1	4804.00	49.14	57.37	-8.23	54.00	-24.86	100	336	Peak	Vertical	
2	4804.00	40.55	48.78	-8.23	74.00	-13.45	100	336	Average	Vertical	



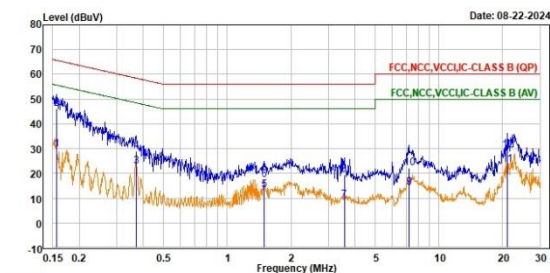
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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Tel: +886-2172-1000 Fax: +886-2172-1322

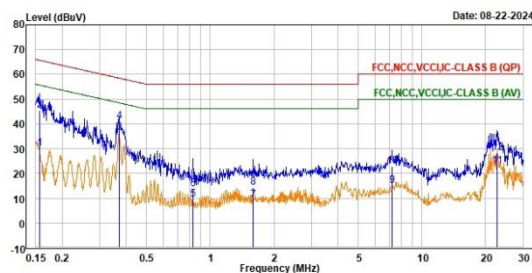


Trace: 1	Frequency (MHz)							
	Freq		Read Level		Limit		Over Limit Remark	
	MHz	Level	Factor	dB	dB	dB	Pol/Phase	Note
1	0.16	29.54	19.91	9.63	55.67	-26.13	Average	line1
2	0.16	45.97	36.34	9.63	65.67	-19.70	QP	line1
3	0.37	22.99	13.36	9.63	48.42	-25.45	Average	line1
4	0.37	28.98	19.35	9.63	58.42	-29.44	QP	line1
5	1.50	13.18	3.52	9.66	46.00	-32.82	Average	line1
6	1.50	14.49	7.83	9.66	56.00	-38.51	QP	line1
7	3.57	9.26	-0.42	9.68	46.00	-36.36	Average	line1
8	3.57	19.46	9.78	9.68	56.00	-36.54	QP	line1
9	7.21	14.40	4.67	9.73	58.00	-35.60	Average	line1
10	7.21	22.83	12.30	9.73	68.00	-37.97	QP	line1
11	21.86	23.40	13.65	9.75	68.00	-35.73	Average	line1
12	21.86	29.42	19.72	9.75	69.00	-30.53	QP	line1

(Neutral)



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No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan (R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Trace #	Frequency (MHz)									
	Freq		Read Level		Factor		Limit Line		Over Limit Remark	
	MHz	dBuV	dBuV	dB	dBuV	dB	dBuV	dB		Pol/Phase Note
1	0.16	30.28	20.57	9.63	55.67	-25.47	Average			neutral
2	0.16	45.32	35.69	9.63	65.67	-28.35	QP			neutral
3	0.37	36.42	26.79	9.63	48.47	-13.89	Average			neutral
4	0.37	40.49	31.32	9.63	58.47	-17.52	QP			neutral
5	0.83	9.45	-0.19	9.64	66.46	-36.55	Average			neutral
6	0.83	13.71	4.07	9.64	56.00	-42.29	QP			neutral
7	1.60	9.13	-0.59	9.66	66.46	-36.55	Average			neutral
8	1.60	14.22	4.56	9.66	56.00	-41.78	QP			neutral
9	7.25	14.82	5.07	9.75	50.00	-35.18	Average			neutral
10	7.25	22.78	12.95	9.75	60.00	-37.36	QP			neutral
11	22.50	22.73	12.67	9.86	60.00	-37.36	Average			neutral
12	22.50	28.17	18.31	9.86	60.00	-31.83	QP			neutral