

BLE_1M

Low Channel (Horizontal) Peak

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

Level (dBuV/m) Date: 2024-07-29

Frequency (MHz)

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2355.03	54.79	16.88	37.91	74.00	-19.21	214	322	Peak	Horizontal	
2 *	2402.00	97.40	59.33	38.07	74.00	23.40	214	322	Peak	Horizontal	
3	2489.31	55.70	17.42	38.28	74.00	-18.30	214	322	Peak	Horizontal	

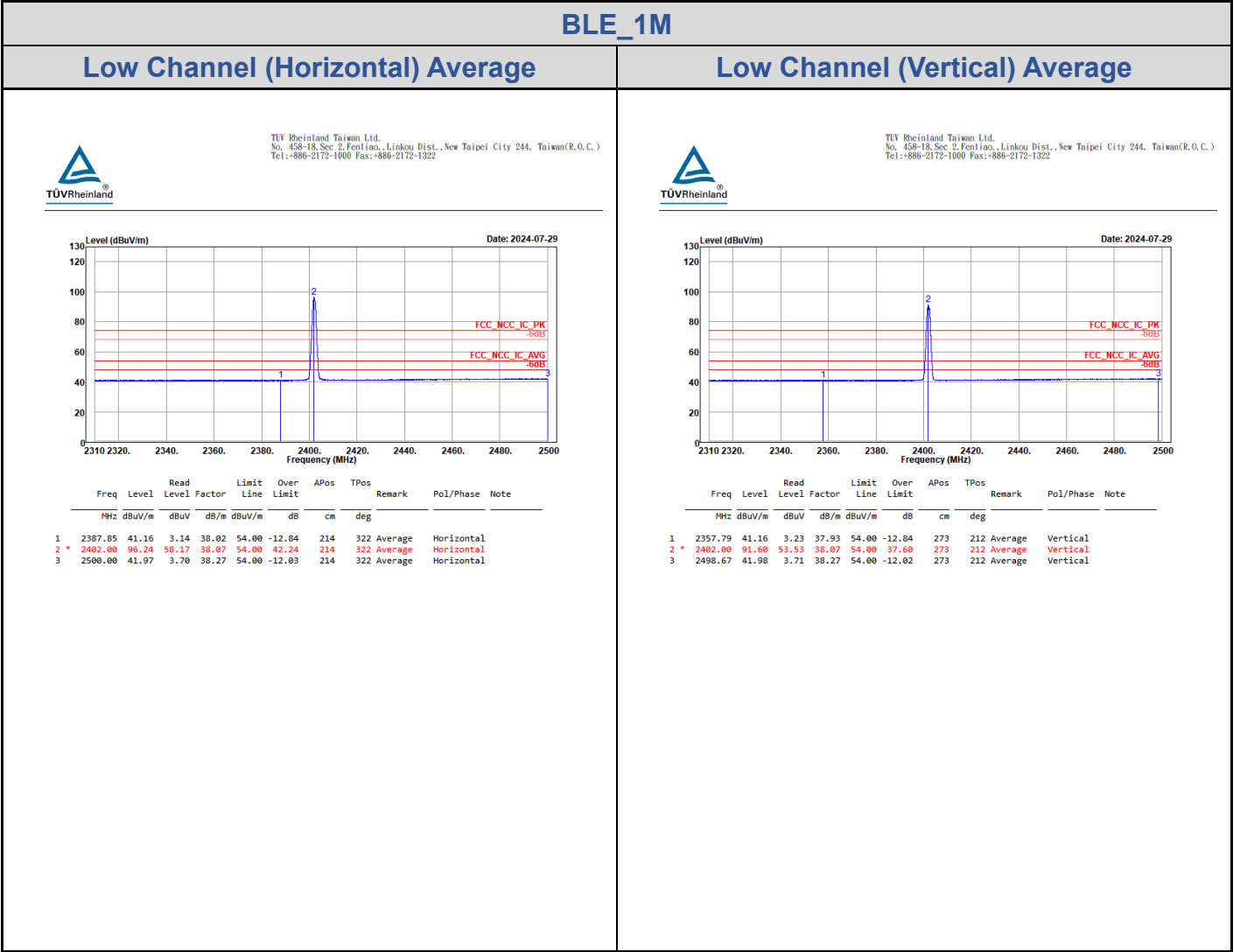
Low Channel (Vertical) Peak

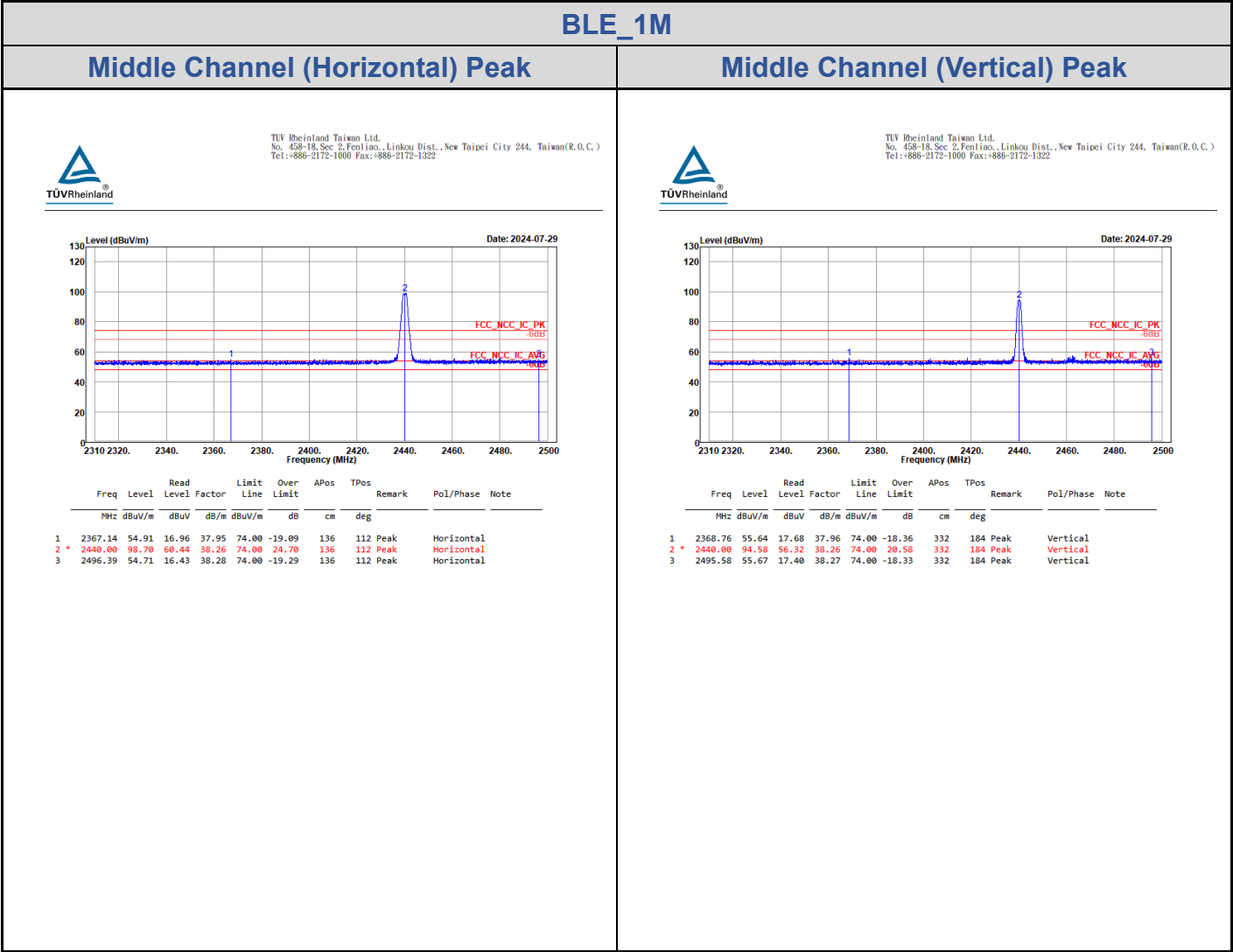
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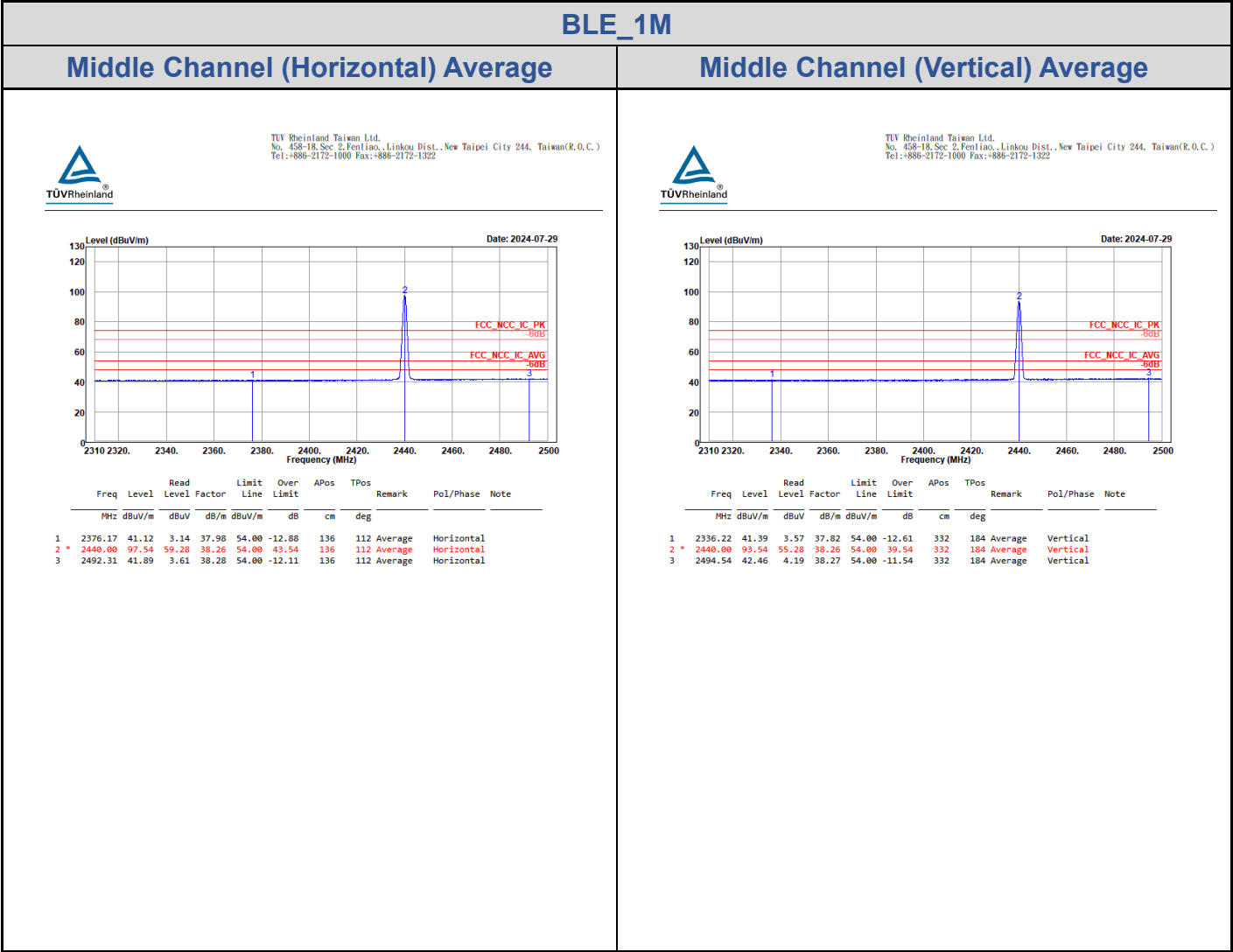
Level (dBuV/m) Date: 2024-07-29

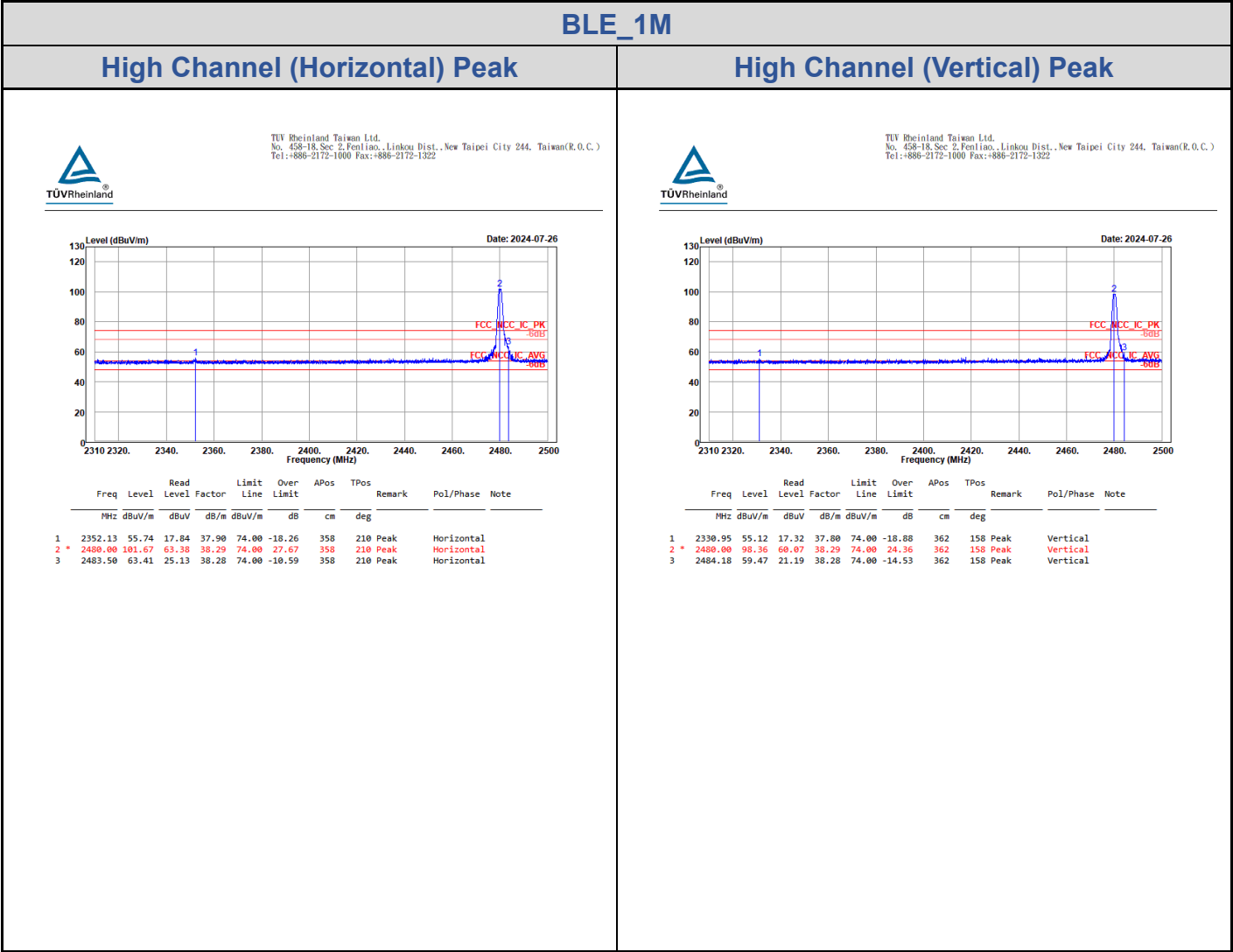
Frequency (MHz)

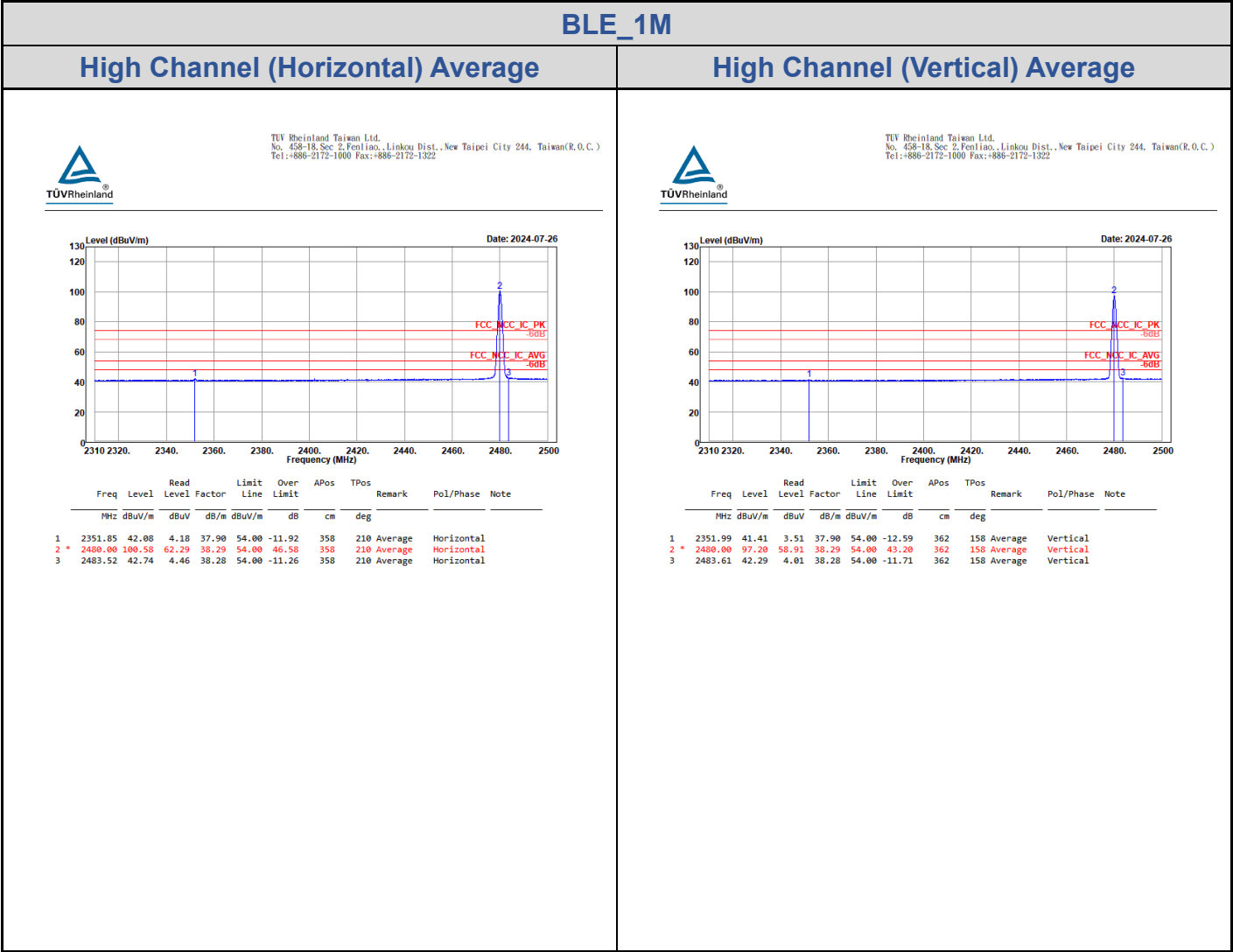
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2382.49	55.53	17.53	38.00	74.00	-18.47	273	212	Peak	Vertical	
2 *	2402.00	92.74	54.67	38.07	74.00	18.74	273	212	Peak	Vertical	
3	2494.06	55.54	17.27	38.27	74.00	-18.46	273	212	Peak	Vertical	

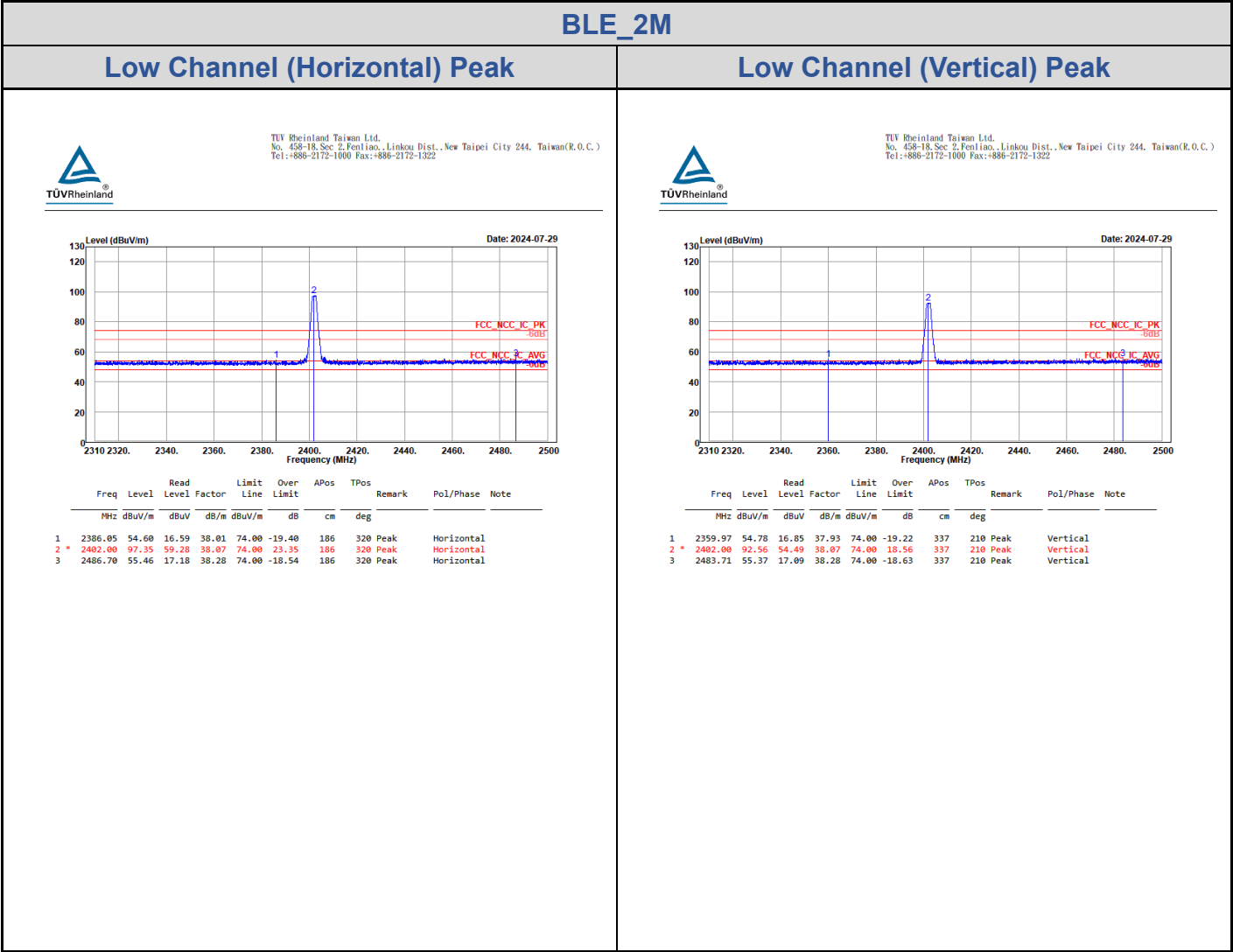


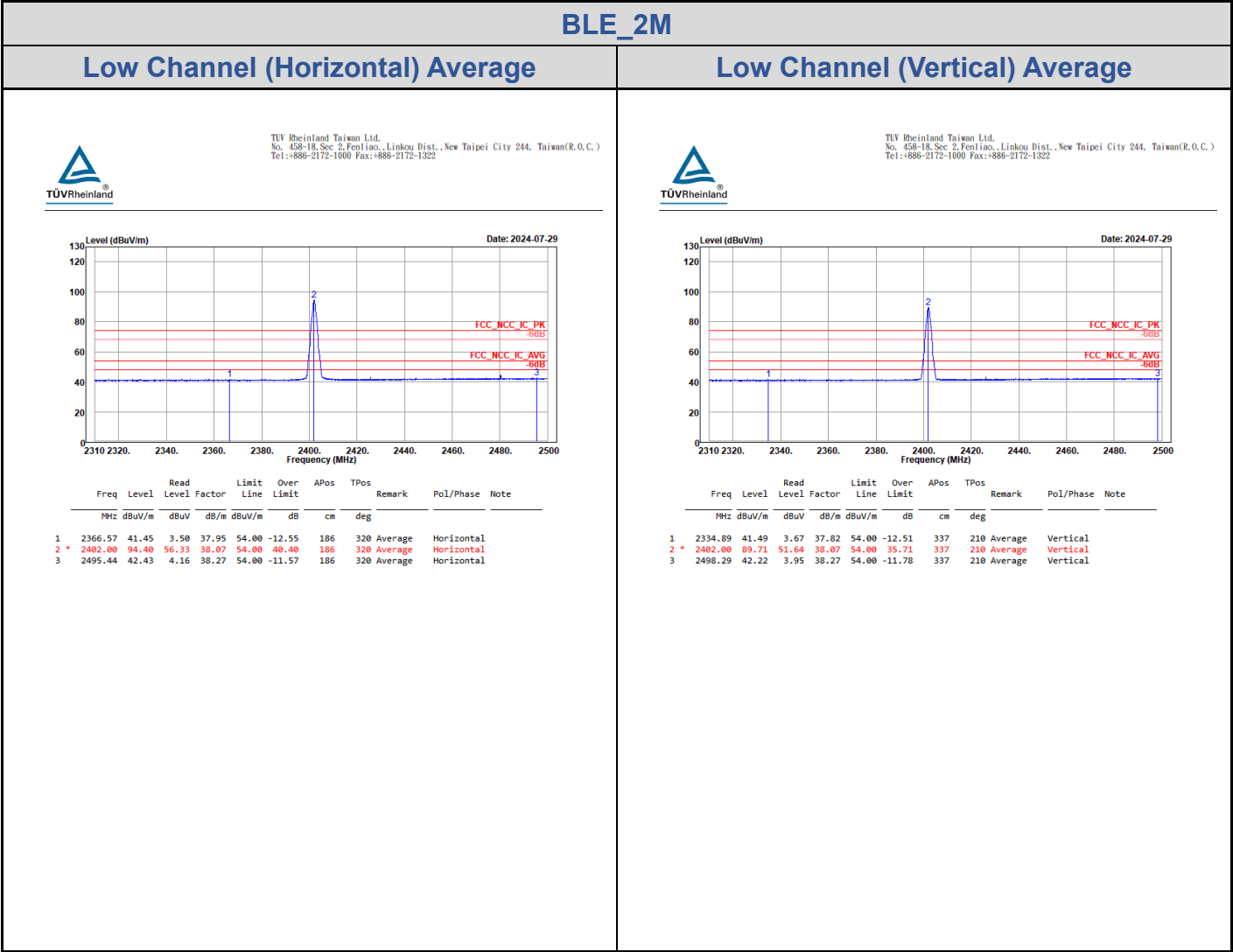












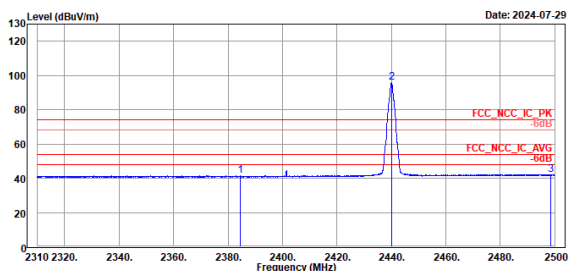
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2380.21	55.35	17.36	37.99	74.00	-18.65	294	133	Peak	Vertical	
2	* 2440.00	95.26	57.00	38.26	74.00	21.26	294	133	Peak	Vertical	
3	2491.21	55.53	17.25	38.28	74.00	-18.47	294	133	Peak	Vertical	

BLE_2M

Middle Channel (Horizontal) Average



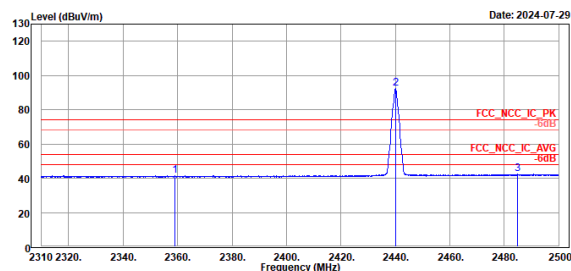
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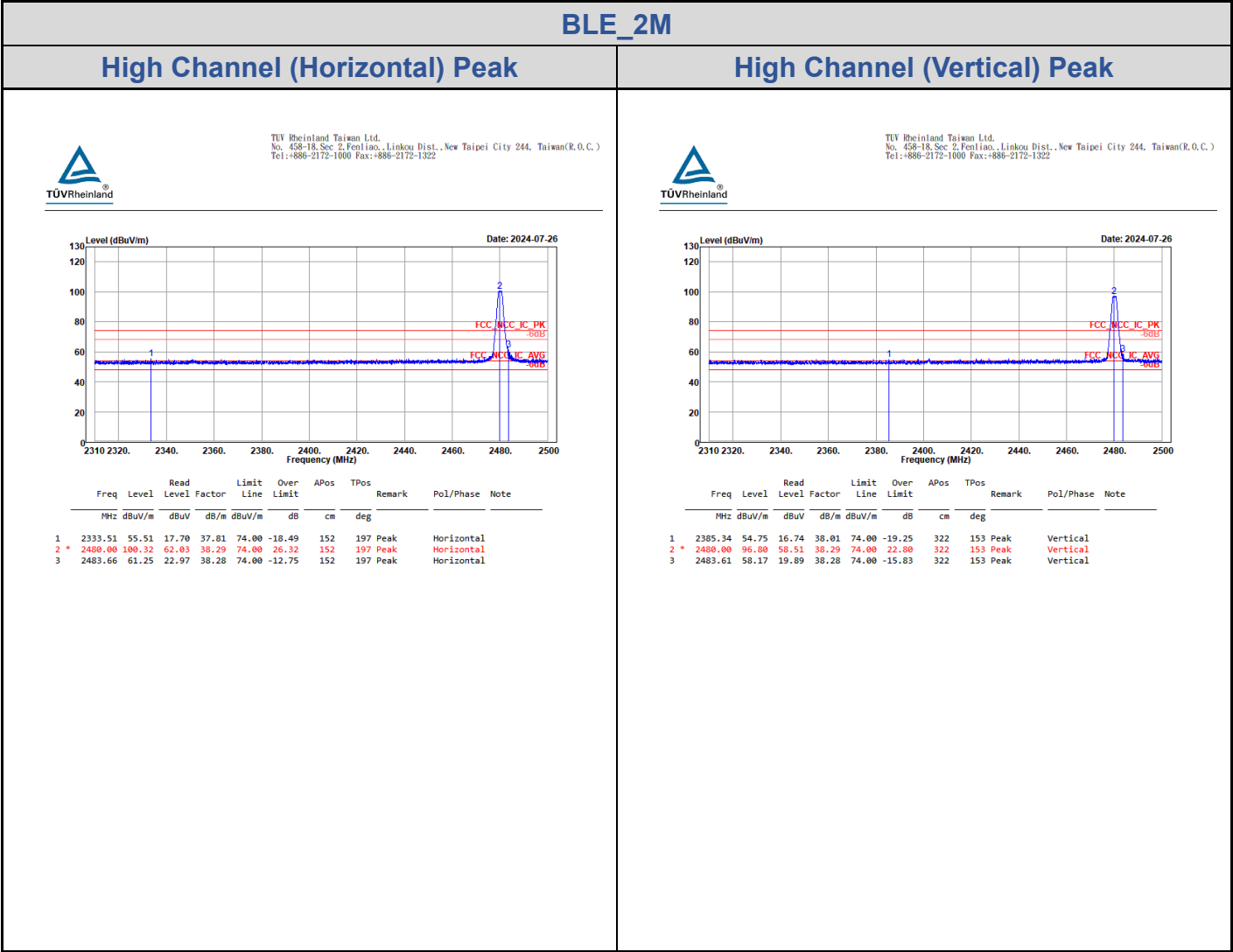
	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV		dBuV/m	dB	cm	deg			
1	2384.48	41.43	3.42	38.01	54.00	-12.57	137	113	Average	Horizontal	
2 *	2448.00	95.76	57.50	38.26	54.00	41.76	137	113	Average	Horizontal	
3	2498.67	42.21	3.94	38.27	54.00	-11.79	137	113	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	2359.02	41.51	3.58	37.93	54.00	-12.49	294	133	Average	Vertical	
2	* 2440.00	92.36	54.10	38.26	54.00	38.36	294	133	Average	Vertical	
3	2484.80	92.36	4.08	38.28	54.00	-11.64	294	133	Average	Vertical	

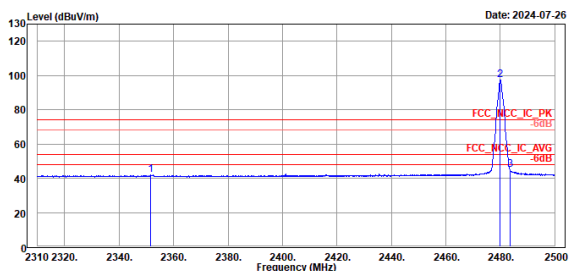


BLE_2M

High Channel (Horizontal) Average



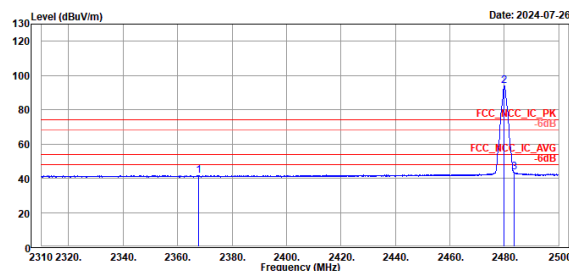
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	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz		dBuV/m		dBuV/m	dB	cm	deg			
1	2351.56	41.86	3.96	37.90	54.00	-12.14	152	197	Average	Horizontal	
2 *	2488.00	97.38	59.09	38.29	54.00	43.38	152	197	Average	Horizontal	
3	2483.50	45.05	6.77	38.28	54.00	-8.95	152	197	Average	Horizontal	



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	Freq	Level	Read Line	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2367.62	41.69	3.73	37.96	54.00	-12.31	322	153	Average	Vertical	
2 *	2480.00	93.87	55.58	38.29	54.00	39.87	322	153	Average	Vertical	
3	2483.52	43.69	5.41	38.28	54.00	-10.31	322	153	Average	Vertical	

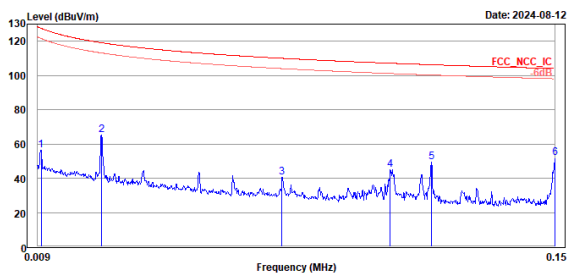
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE 2M

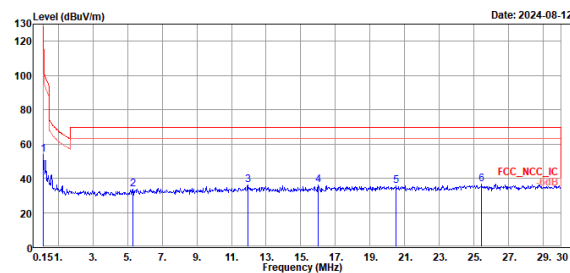
High Channel (Open) 9kHz~150kHz



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	Freq	Level	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/mV	dBu	dB/m	dBu/mV	dB	cm	deg		
1	0.15	53.72	34.88	18.84	104.08	-50.36	100	112	Peak	Open
2	5.31	54.78	35.12	20.12	69.50	-35.10	100	130	Peak	Open
3	11.94	36.03	24.39	21.64	69.50	-33.47	100	8	Peak	Open
4	16.00	35.97	13.97	22.00	69.50	-33.53	100	77	Peak	Open
5	20.51	35.61	13.95	23.56	69.50	-33.89	100	7	Peak	Open
6	25.43	36.73	13.93	23.04	69.50	-32.10	100	134	Peak	Open

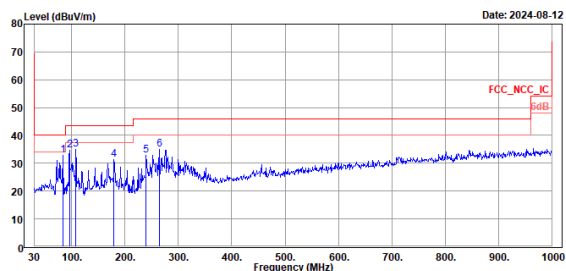
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE 2M

High Channel (Horizontal)



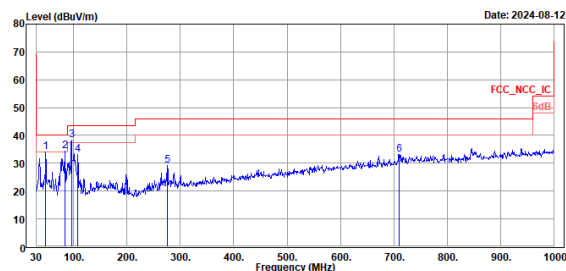
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Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read Limit	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	83.35	32.77	44.56	-11.79	40.00	-7.23	100	206	Peak	Horizontal	
2	95.90	32.62	44.55	-11.65	43.50	-0.88	100	181	Peak	Horizontal	
3	107.60	35.22	49.99	-9.97	43.50	-8.48	100	205	Peak	Horizontal	
4	179.38	31.27	37.95	-6.68	43.50	-12.23	100	181	Peak	Horizontal	
5	239.52	32.90	39.67	-6.77	46.00	-13.13	100	181	Peak	Horizontal	
6	263.77	34.85	44.45	-6.43	46.00	-11.15	100	101	Peak	Horizontal	

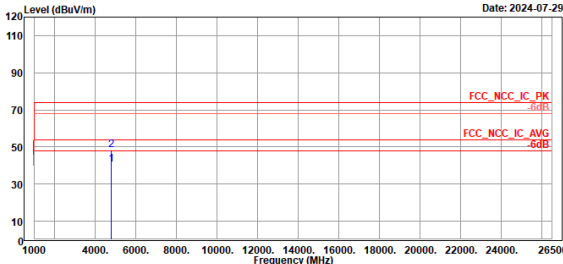
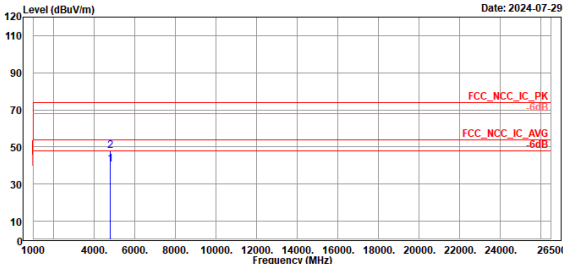


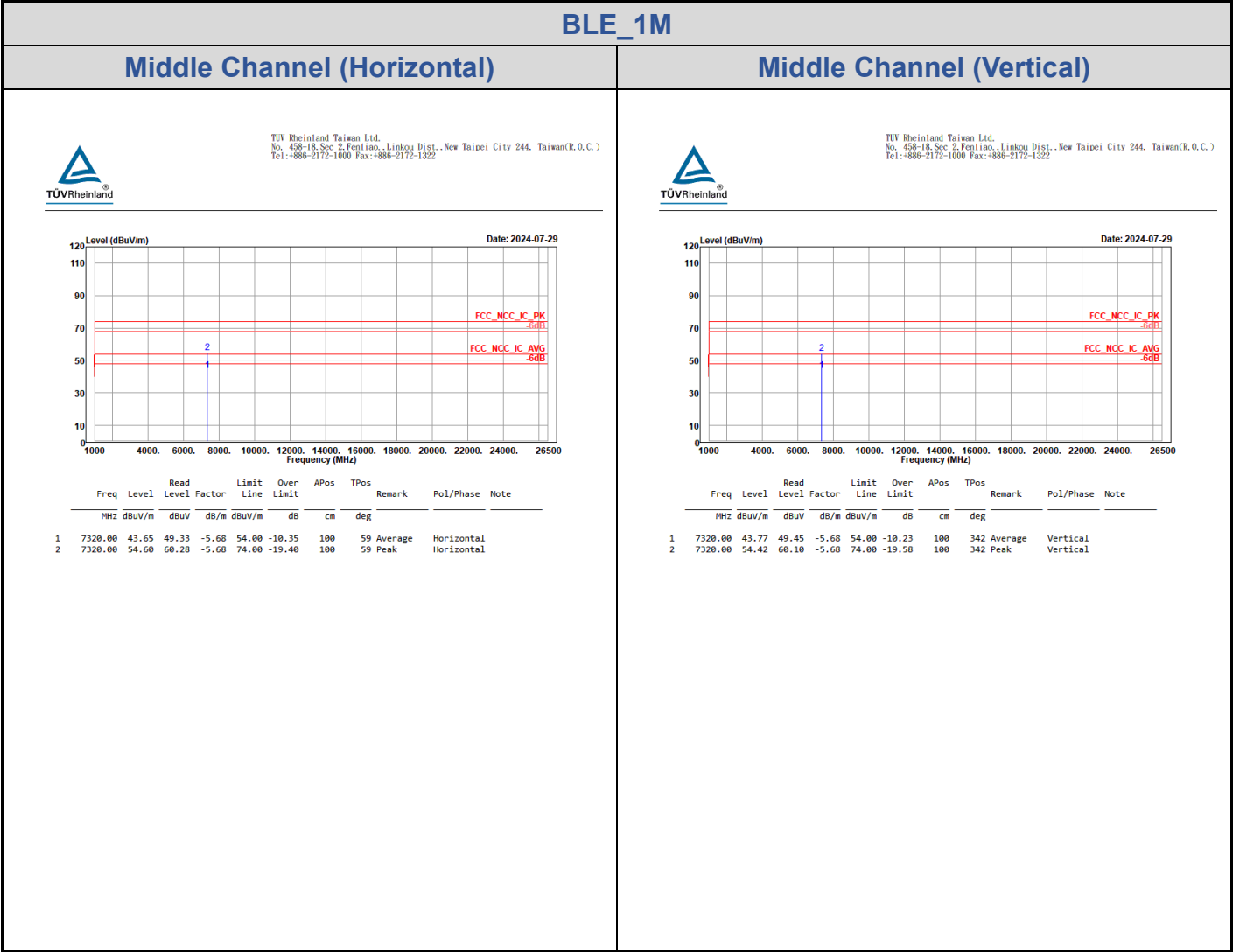
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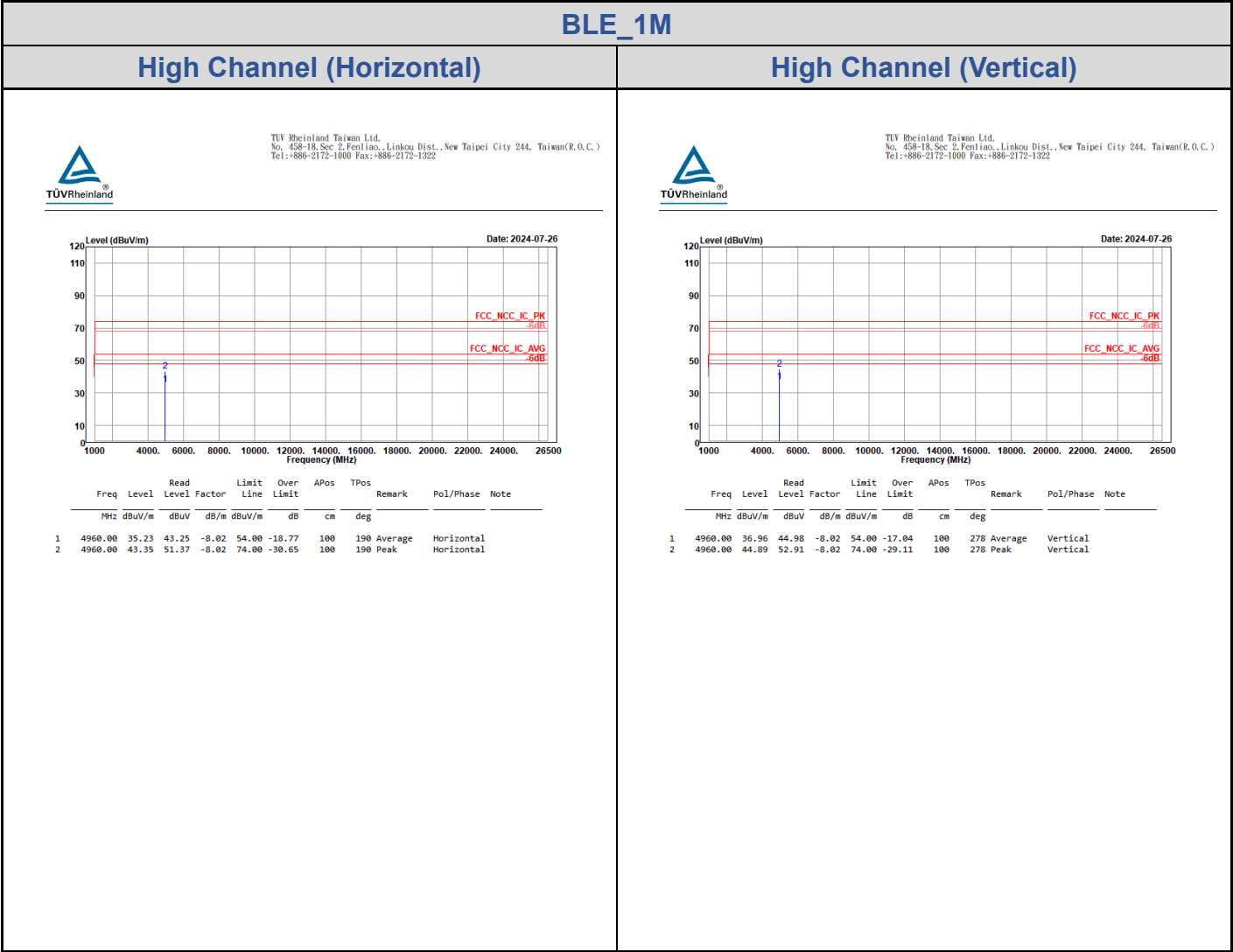


	Freq	Lead	Lead	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/mV	dBu/mV	dB/mV	dBu/mV	dB	cm	deg		
2	47.46	33.25	40.01	-6.86	40.00	-6.97	100	832 Peak	Vertical	
3	47.46	33.27	40.01	-6.86	40.00	-6.97	100	45 Peak	Vertical	
3	95.96	38.26	49.89	-11.63	43.50	-5.24	100	57 Peak	Vertical	
4	107.60	33.16	43.13	-9.97	43.50	-10.34	100	66 Peak	Vertical	
5	275.41	29.26	35.30	-6.04	46.00	-16.74	100	52 Peak	Vertical	
6	789.97	33.09	43.03	-2.56	46.00	-12.91	100			

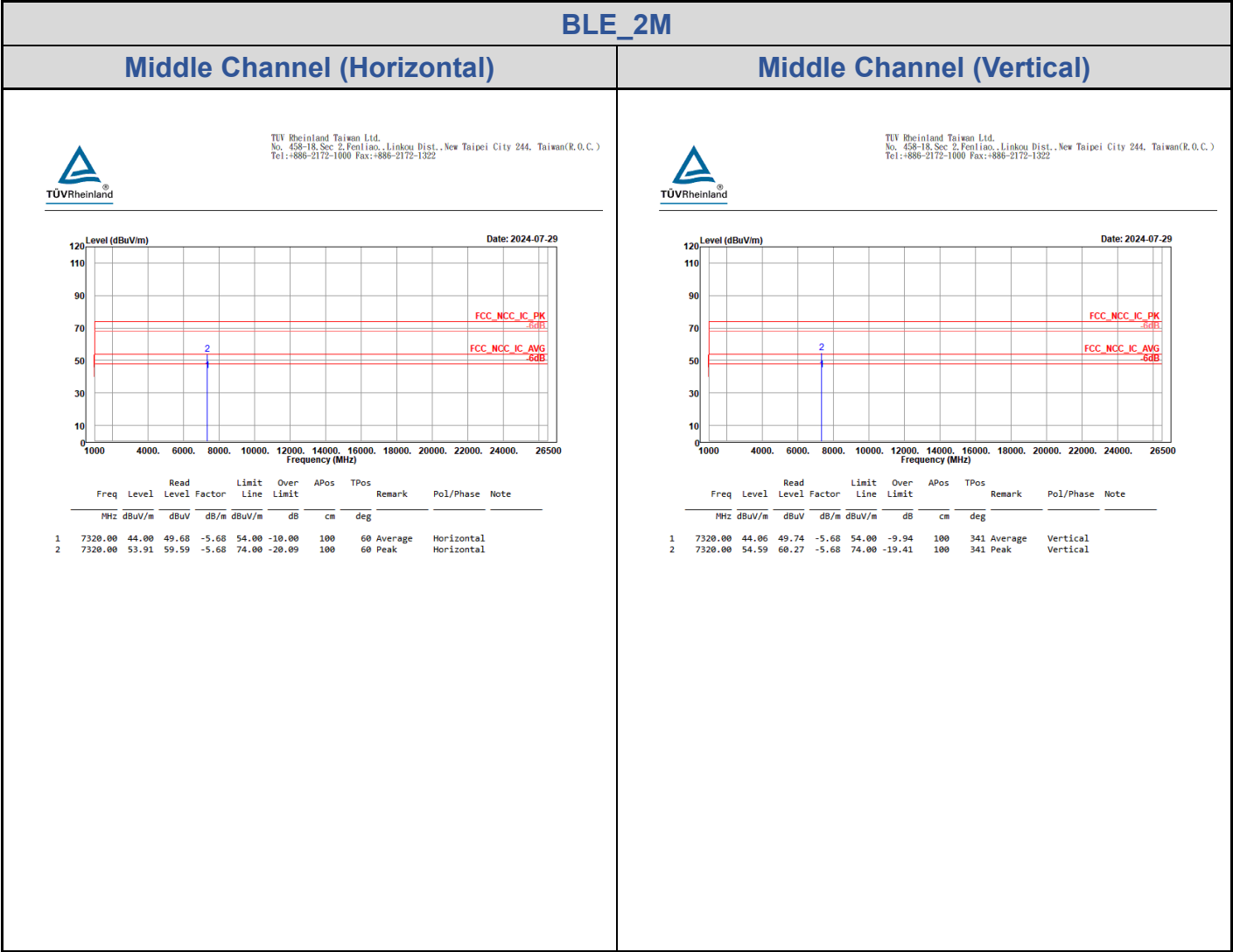
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

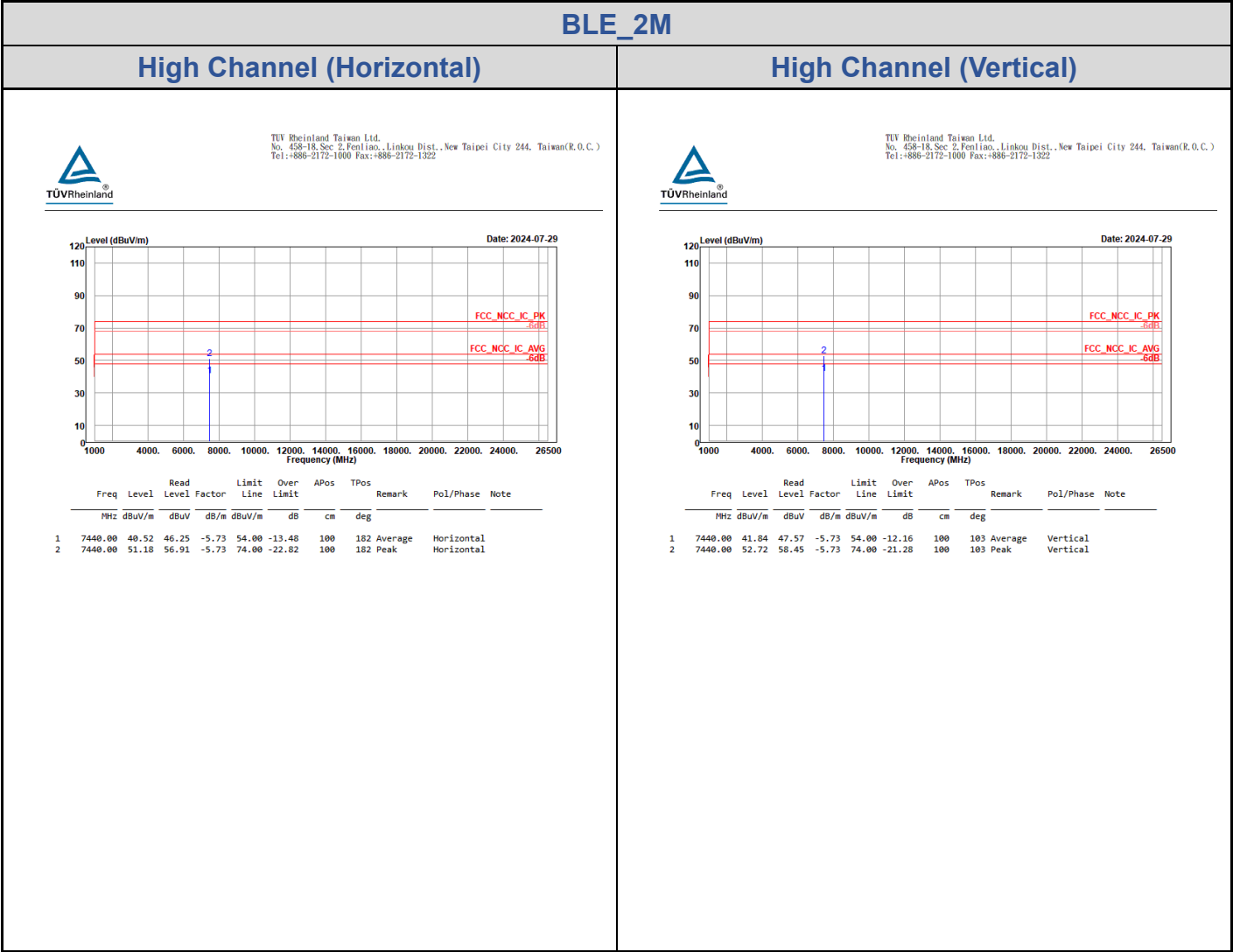
BLE_1M																																																																																																		
Low Channel (Horizontal)						Low Channel (Vertical)																																																																																												
 TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322 Level (dBuV/m) 2024-07-29 <table><tr><th>Freq</th><th>Level</th><th>Read Level</th><th>Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th></tr><tr><td>1</td><td>4884.00</td><td>40.74</td><td>48.97</td><td>-8.23</td><td>54.00</td><td>-13.26</td><td>100</td><td>72 Average</td><td>Horizontal</td><td></td></tr><tr><td>2</td><td>4884.00</td><td>48.44</td><td>56.67</td><td>-8.23</td><td>74.00</td><td>-25.56</td><td>100</td><td>72 Peak</td><td>Horizontal</td><td></td></tr></table>						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	40.74	48.97	-8.23	54.00	-13.26	100	72 Average	Horizontal		2	4884.00	48.44	56.67	-8.23	74.00	-25.56	100	72 Peak	Horizontal		 TUV Rheinland Taiwan Ltd. 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) 2024-07-29 <table><tr><th>Freq</th><th>Level</th><th>Read Level</th><th>Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th></tr><tr><td>1</td><td>4884.00</td><td>40.66</td><td>48.89</td><td>-8.23</td><td>54.00</td><td>-13.34</td><td>100</td><td>275 Average</td><td>Vertical</td><td></td></tr><tr><td>2</td><td>4884.00</td><td>47.83</td><td>56.06</td><td>-8.23</td><td>74.00</td><td>-26.17</td><td>100</td><td>275 Peak</td><td>Vertical</td><td></td></tr></table>					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	40.66	48.89	-8.23	54.00	-13.34	100	275 Average	Vertical		2	4884.00	47.83	56.06	-8.23	74.00	-26.17	100	275 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	4884.00	40.74	48.97	-8.23	54.00	-13.26	100	72 Average	Horizontal																																																																																									
2	4884.00	48.44	56.67	-8.23	74.00	-25.56	100	72 Peak	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	4884.00	40.66	48.89	-8.23	54.00	-13.34	100	275 Average	Vertical																																																																																									
2	4884.00	47.83	56.06	-8.23	74.00	-26.17	100	275 Peak	Vertical																																																																																									





	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	37.37	55.26	-8.23	54.80	-16.63	100	299	Average	Vertical	
2	4804.00	47.01	45.44	-8.23	74.80	-26.99	100	299	Peak	Vertical	





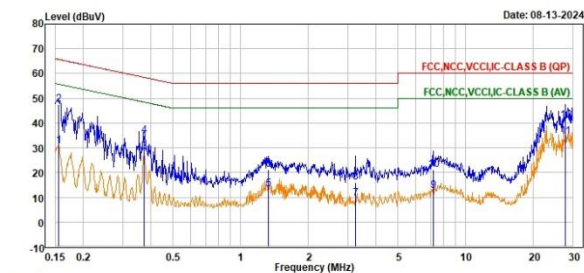
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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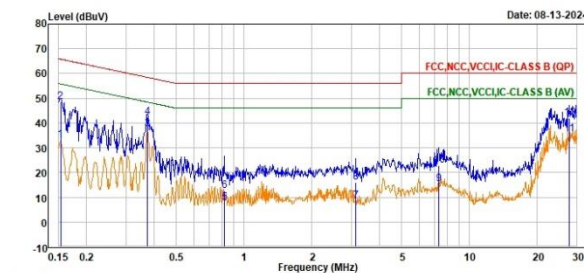


Trace:	Frequency (MHz)							
	Freq		Read Level Factor		Limit Line		Over-Remark	
	MHz	dBuV	dBuV	dB	dBuV	dB	Pol/Phase	Note
1	0.15	30.71	21.08	9.63	55.75	-25.04	Average	line1
2	0.15	47.36	37.73	9.63	65.75	-18.39	QP	line1
3	0.37	28.39	18.76	9.63	48.47	-29.70	Average	line1
4	0.37	44.37	25.04	9.63	58.47	-23.80	QP	line1
5	1.32	32.42	3.78	6.44	46.00	-32.58	Average	line1
6	1.32	10.99	11.35	9.64	56.00	-35.01	QP	line1
7	3.23	9.61	-0.87	6.68	46.00	-36.36	Average	line1
8	3.23	16.11	6.43	9.68	56.00	-39.89	QP	line1
9	7.18	12.47	2.74	9.73	50.00	-37.53	Average	line1
10	7.18	21.38	11.57	9.73	60.00	-38.70	QP	line1
11	27.84	34.45	24.75	9.74	68.00	-15.55	Average	line1
12	27.84	40.86	31.12	9.74	68.00	-19.14	QP	line1

(Neutral)



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Trace: 1	Frequency (MHz)								
	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV		dBuV	dB			
1	0.15	33.15	23.52	9.63	55.83	-22.68	Average	neutral	
2	0.15	48.43	38.80	9.63	65.83	-17.48	QP	neutral	
3	0.37	37.51	27.68	9.63	68.47	-18.00	Average	neutral	
4	0.37	42.21	32.58	9.63	58.47	-16.26	QP	neutral	
5	0.82	7.74	-1.90	9.64	46.00	-38.26	Average	neutral	
6	0.82	12.45	2.81	9.64	56.00	-43.55	QP	neutral	
7	0.87	9.35	1.33	9.64	56.00	-46.37	Average	neutral	
8	3.14	16.12	6.44	9.68	56.00	-39.88	QP	neutral	
9	7.32	15.19	5.44	9.75	50.00	-34.81	Average	neutral	
10	7.32	22.75	13.00	9.75	60.00	-37.25	QP	neutral	
11	27.87	35.68	25.00	9.88	60.00	-16.68	Average	neutral	
12	27.84	42.17	32.29	9.88	60.00	-17.83	QP	neutral	