

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test for Main Model No. DK-9178D

ANT-X100ETHAB24553

Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak

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Date: 2024-07-30

Level (dBuV/m)

130

120

100

80

60

40

20

0

2310

2320

2340

2360

2380

2400

2420

2440

2460

2480

2500

Frequency (MHz)

2377.93

2402.00

2483.50

56.19

97.86

55.53

18.20

59.79

17.25

37.99

38.07

38.28

74.00

74.00

74.00

-17.81

23.86

-18.47

300

300

300

20

20

20

Peak

Peak

Peak

Horizontal

Horizontal

Horizontal

FCC_MCC_IC_PK

-50dB

FCC_MCC_IC_AVG

-60dB

	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	2377.93	56.19	18.20	37.99	74.00	-17.81	300	20	Peak	Horizontal	
2 *	2402.00	97.86	59.79	38.07	74.00	23.86	300	20	Peak	Horizontal	
3	2483.50	55.53	17.25	38.28	74.00	-18.47	300	20	Peak	Horizontal	

Low Channel (Vertical) Peak

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Date: 2024-07-30

Level (dBuV/m)

130

120

100

80

60

40

20

0

2310

2320

2340

2360

2380

2400

2420

2440

2460

2480

2500

Frequency (MHz)

2352.18

2402.00

2495.77

54.94

93.59

55.49

17.04

55.52

17.21

37.90

38.07

38.28

74.00

74.00

74.00

-19.06

19.59

-18.51

329

329

329

262

262

262

Peak

Peak

Peak

Vertical

Vertical

Vertical

FCC_MCC_IC_PK

-50dB

FCC_MCC_IC_AVG

-60dB

	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	2352.18	54.94	17.04	37.90	74.00	-19.06	329	262	Peak	Vertical	
2 *	2402.00	93.59	55.52	38.07	74.00	19.59	329	262	Peak	Vertical	
3	2495.77	55.49	17.21	38.28	74.00	-18.51	329	262	Peak	Vertical	

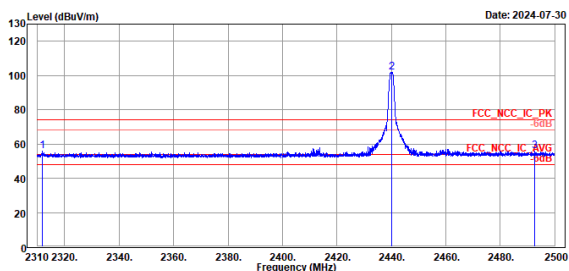
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2322.64	41.04	3.28	37.76	54.00	-12.96	329	262	Average	Vertical	
2 *	2402.00	92.48	54.41	38.07	54.00	38.48	329	262	Average	Vertical	
3	2489.79	41.88	3.60	38.28	54.00	-12.12	329	262	Average	Vertical	

BLE_1M

Middle Channel (Horizontal) Peak



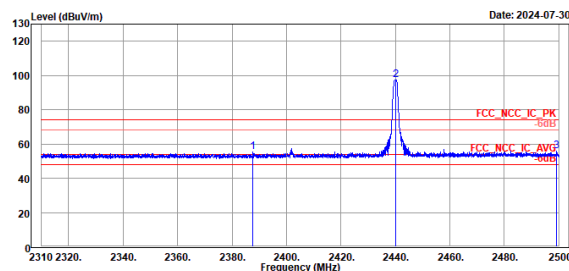
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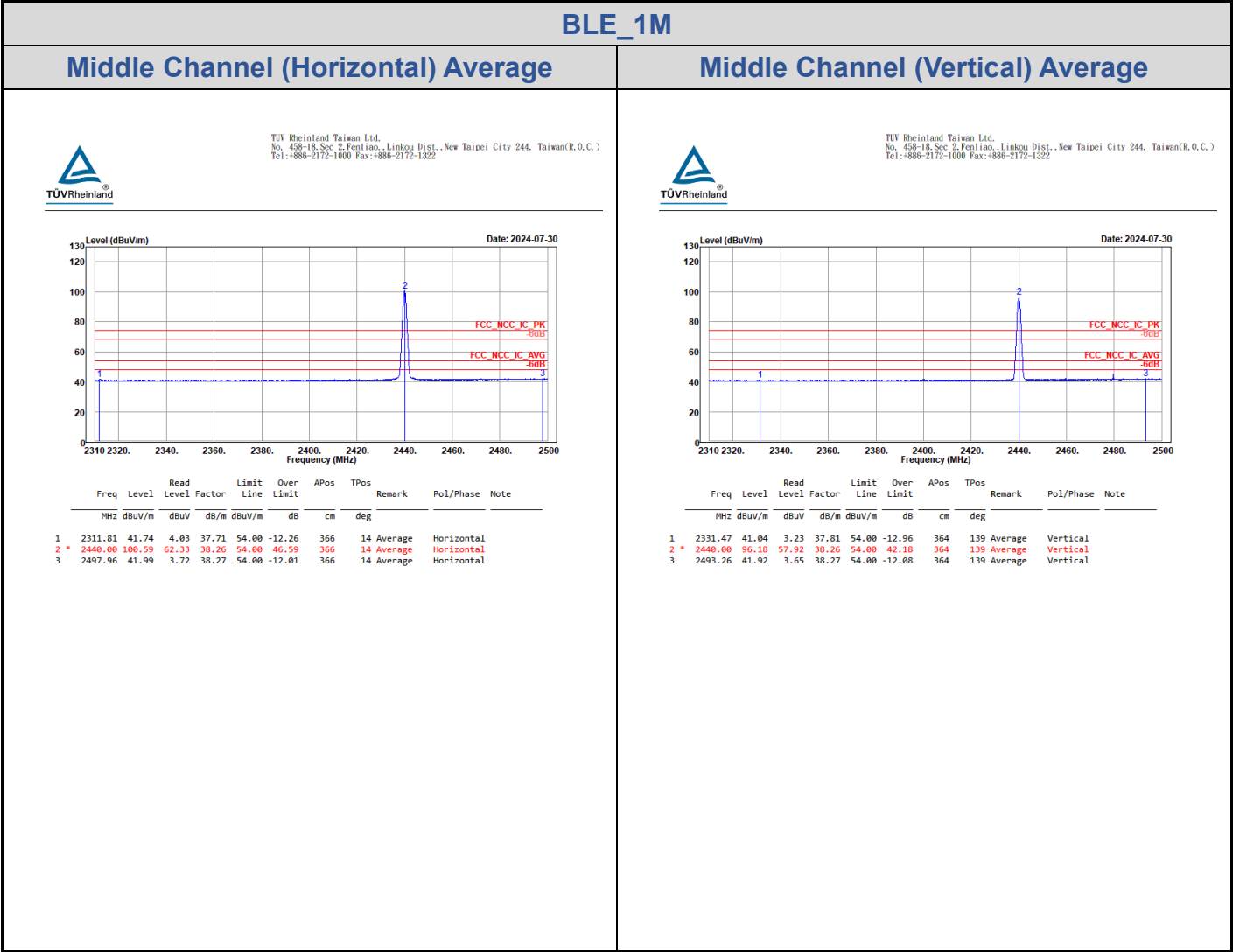
	Freq	Level	Read dBmV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBmV/m	dBuV		dBmV/m	dB	cm	deg			
1	2311.95	55.67	17.96	37.71	74.00	-18.33	366	14	Peak	Horizontal	
2 *	2448.00	101.68	63.42	38.26	74.00	27.68	366	14	Peak	Horizontal	
3	2492.73	55.74	17.47	38.27	74.00	-18.26	366	14	Peak	Horizontal	



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	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
	MHz		dBuV/m		dB/m	dBuV/m	dB	cm	deg		
1	2387.57	55.21	17.19	38.02	74.00	-18.79	364	139	Peak	Vertical	
2 *	2440.00	97.36	59.10	38.26	74.00	23.36	364	139	Peak	Vertical	
3	2499.15	55.73	17.46	38.27	74.00	-18.27	364	139	Peak	Vertical	

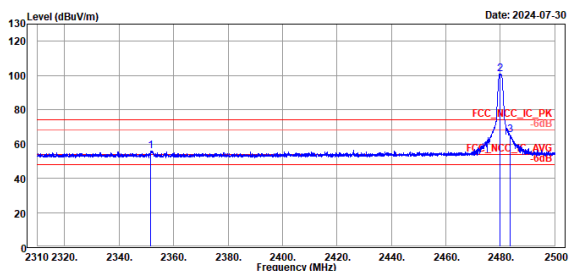


BLE_1M

High Channel (Horizontal) Peak



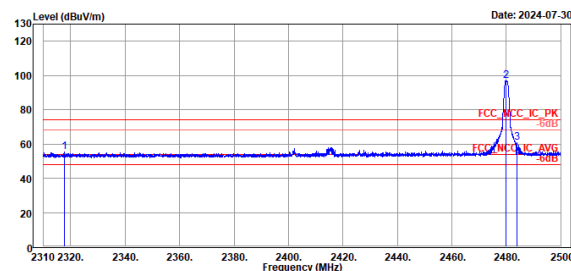
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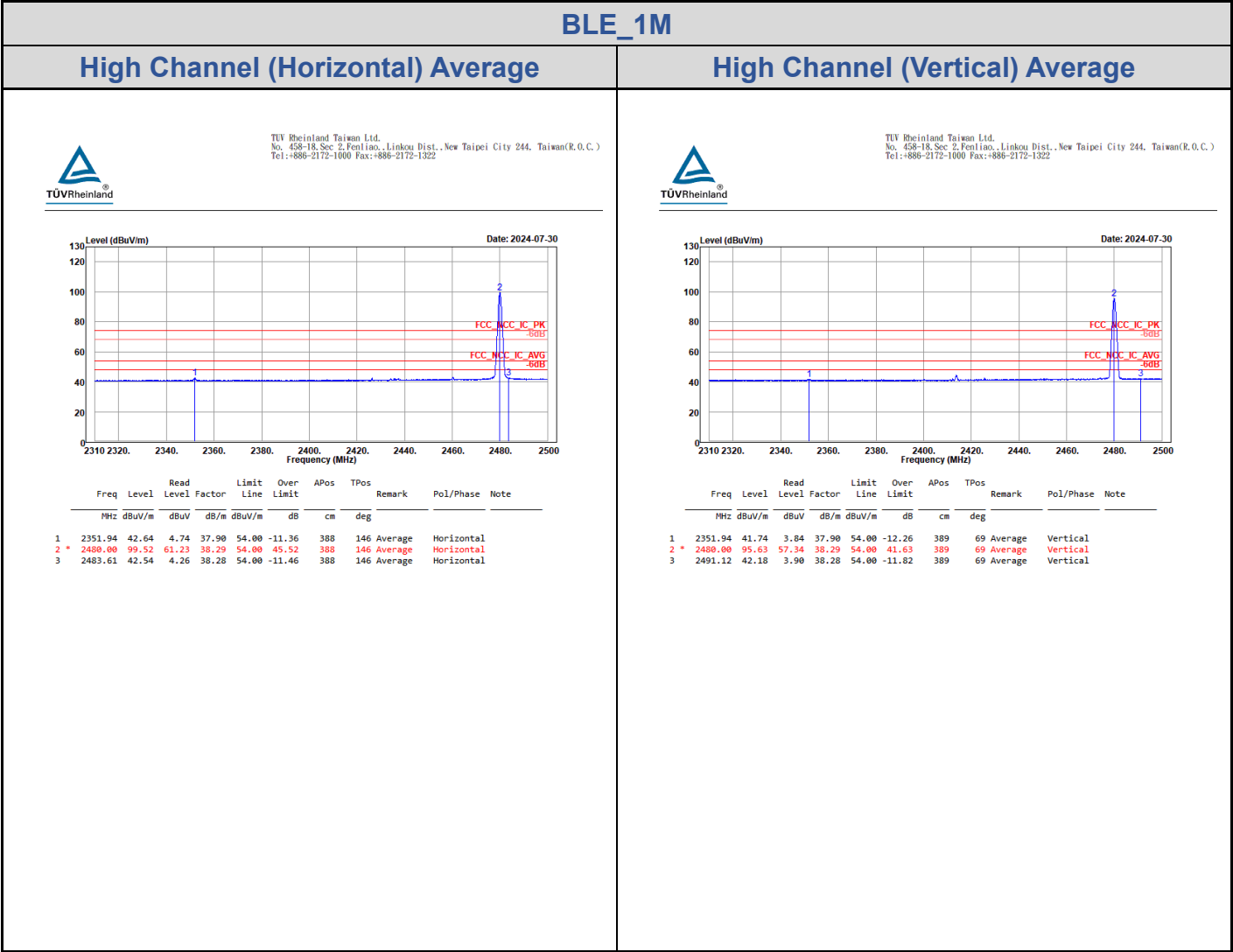
	Freq	Level	Read dBm	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm		dBm	dB	cm	deg			
1	2351.52	56.06	18.16	37.90	74.00	-17.94	388	146	Peak	Horizontal	
2 *	2480.00	100.64	62.35	38.29	74.00	26.64	388	146	Peak	Horizontal	
3	2483.52	65.28	27.00	38.28	74.00	-8.72	388	146	Peak	Horizontal	

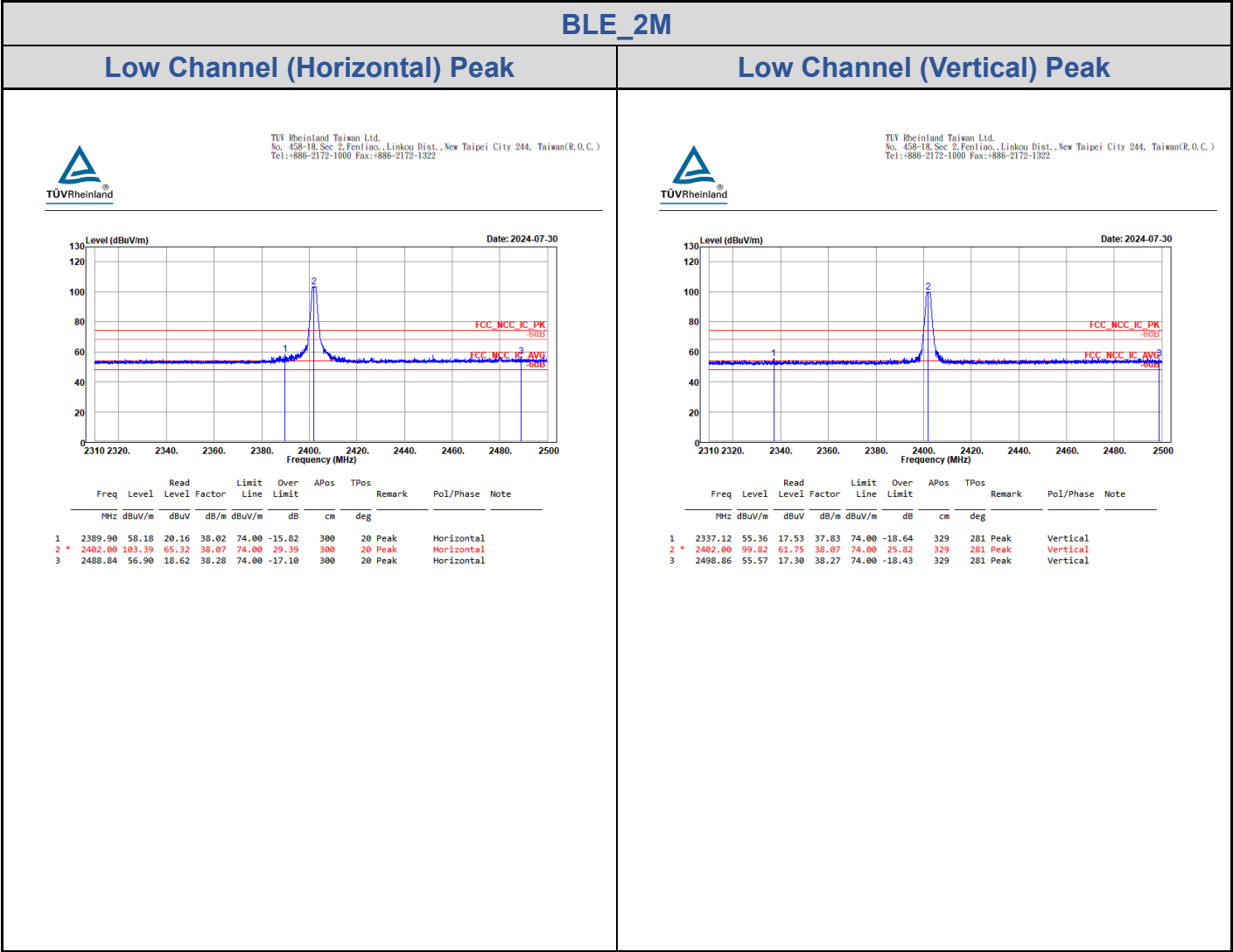


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	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2317.70	55.38	17.65	37.73	74.00	-18.62	389	69	Peak	Vertical	
2 *	2480.00	96.70	58.41	38.29	74.00	22.70	389	69	Peak	Vertical	
3	2483.80	61.02	22.74	38.28	74.00	-12.98	389	69	Peak	Vertical	



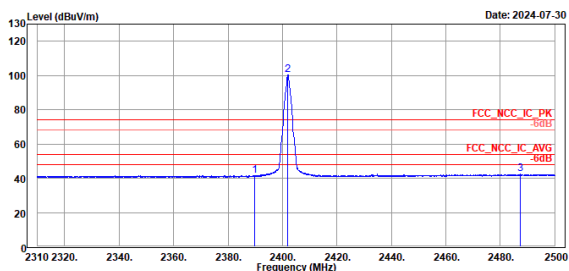


BLE_2M

Low Channel (Horizontal) Average



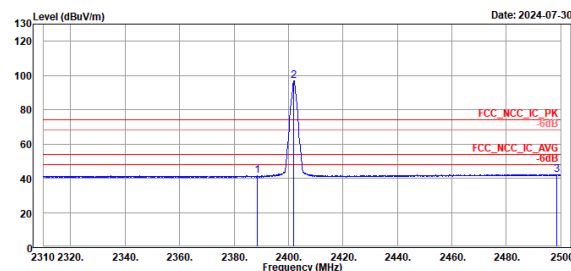
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	Freq	Level	Read Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dBuV/m	dB	cm	deg			
1	2389.71	41.71	3.69	38.02	54.00	-12.29	300	20 Average	Horizontal	
2 *	2402.00	100.56	62.49	38.07	54.00	46.56	300	20 Average	Horizontal	
3	2487.41	42.39	4.10	38.29	54.00	-11.61	300	20 Average	Horizontal	



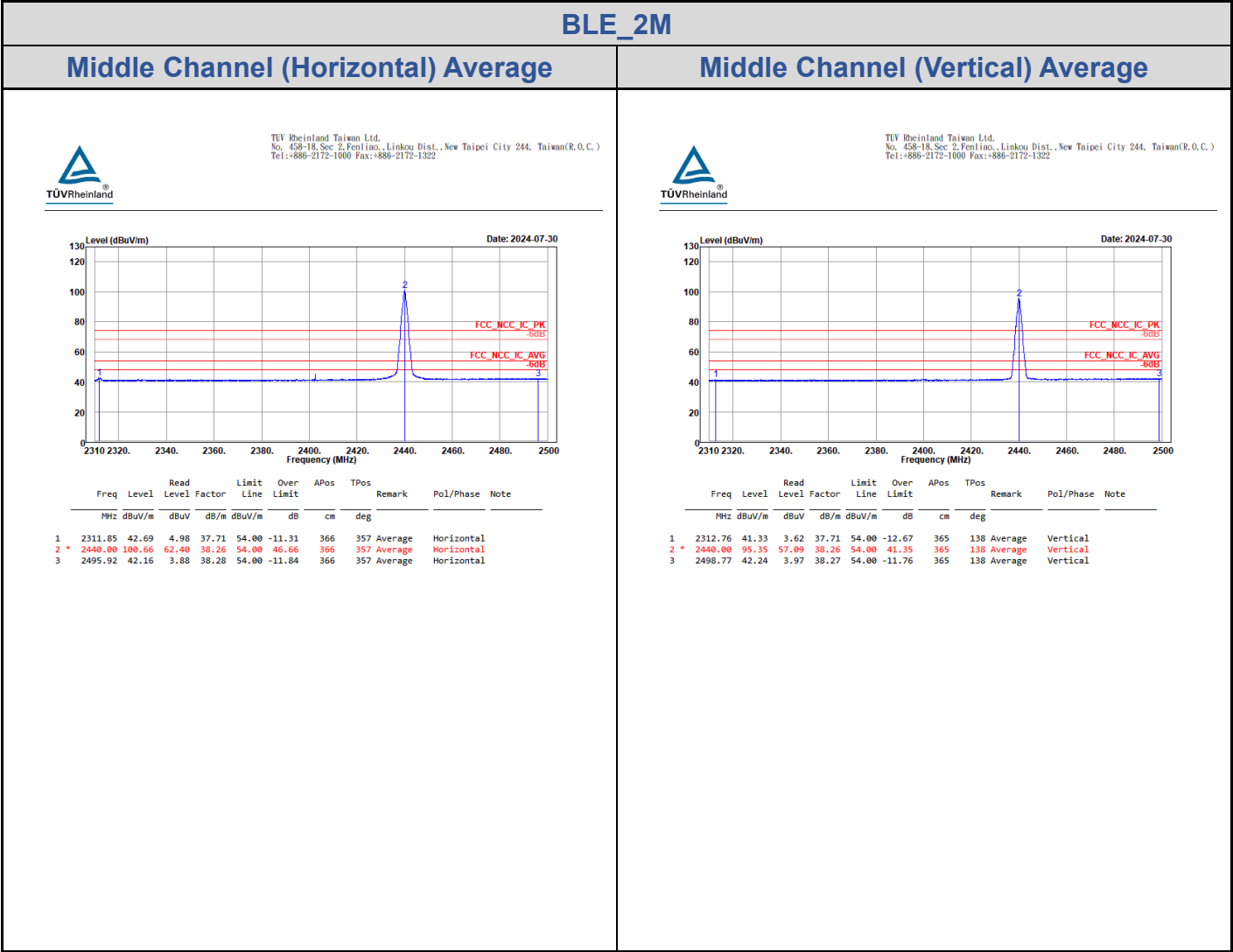
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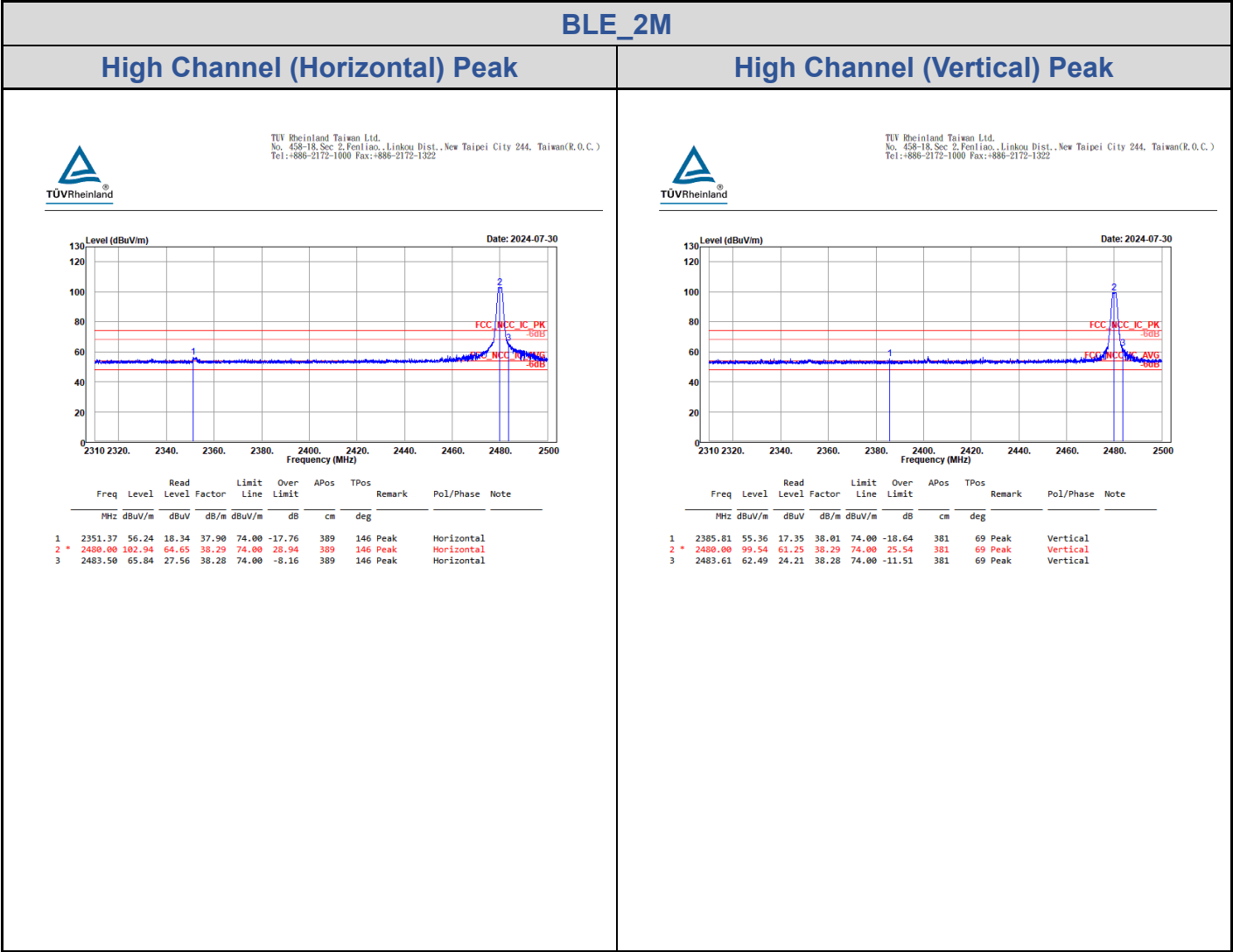


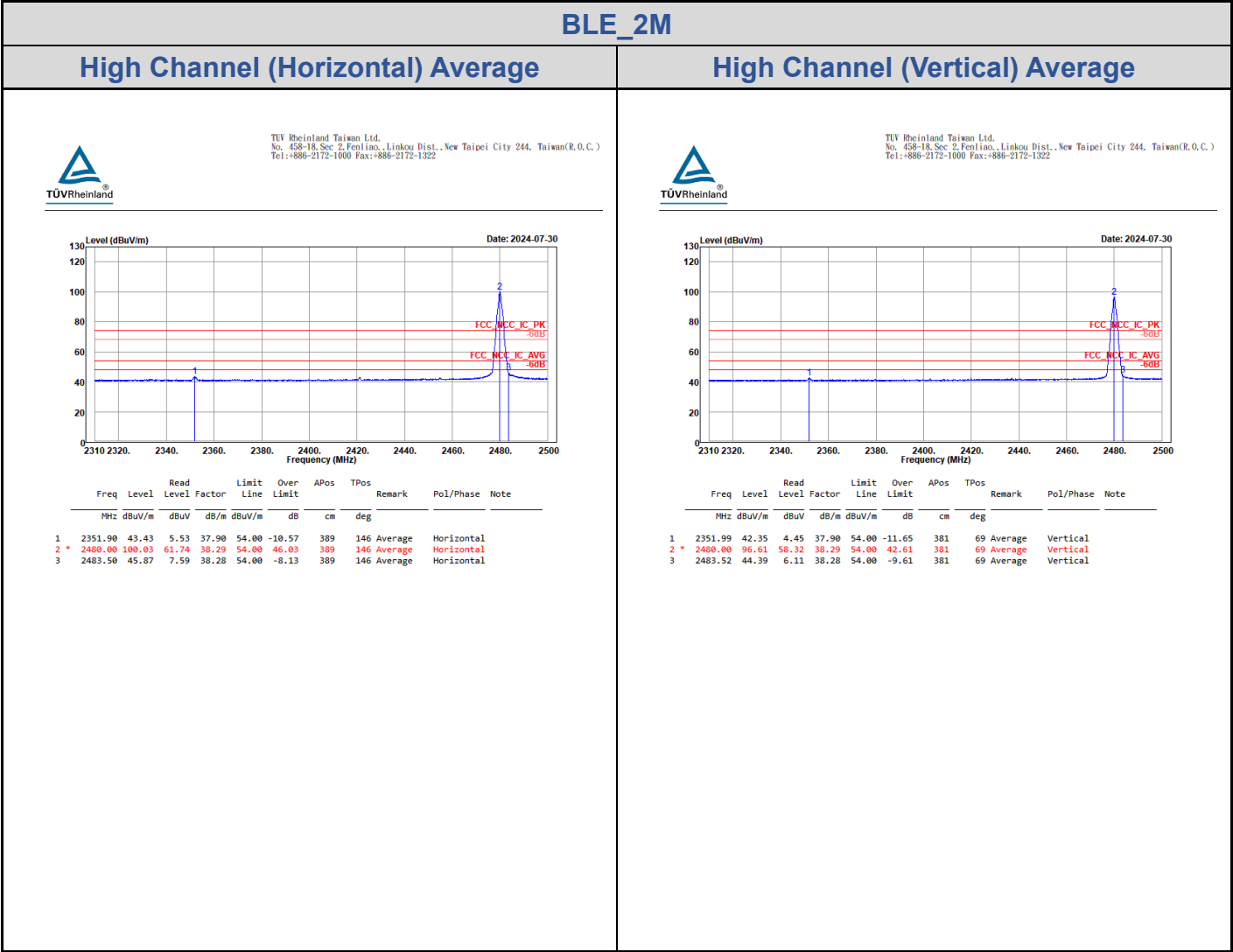
	Freq	Level	Read Line	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.47	41.46	3.44	38.82	54.00	-12.54	329	281	Average	Vertical	
2	2402.00	96.98	58.91	38.87	54.00	42.98	329	281	Average	Vertical	
3	2496.67	42.24	3.97	38.27	54.00	-11.76	329	281	Average	Vertical	

Middle Channel (Vertical) Peak

	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	2317.13	55.13	17.40	37.73	74.00	-18.87	365	138	Peak	Vertical	
2 *	2440.00	98.27	60.01	38.26	74.00	24.27	365	138	Peak	Vertical	
3	2495.01	55.53	17.26	38.27	74.00	-18.47	365	138	Peak	Vertical	







Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz

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Date: 2024-08-12

Level (dBuV/m)

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

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Date: 2024-08-12

Level (dBuV/m)

80

70

60

50

40

30

20

10

0

30

100

200

300

400

500

600

700

800

900

1000

Frequency (MHz)

FCC_NCC_IC

5dB

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	83.35	35.73	47.52	-11.79	40.00	-4.27	200	23 Peak	Horizontal	
2	95.96	36.36	47.99	-11.63	43.50	-7.14	200	196 Peak	Horizontal	
3	107.00	35.69	45.66	-9.97	43.50	-7.81	200	194 Peak	Horizontal	
4	131.85	33.97	41.56	-7.59	43.50	-9.53	100	193 Peak	Horizontal	
5	239.52	33.07	39.84	-6.77	46.00	-12.93	100	142 Peak	Horizontal	
6	288.02	39.56	45.14	-5.58	46.00	-6.44	200	140 Peak	Horizontal	

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Date: 2024-08-12

Level (dBuV/m)

80

70

60

50

40

30

20

10

0

30

100

200

300

400

500

600

700

800

900

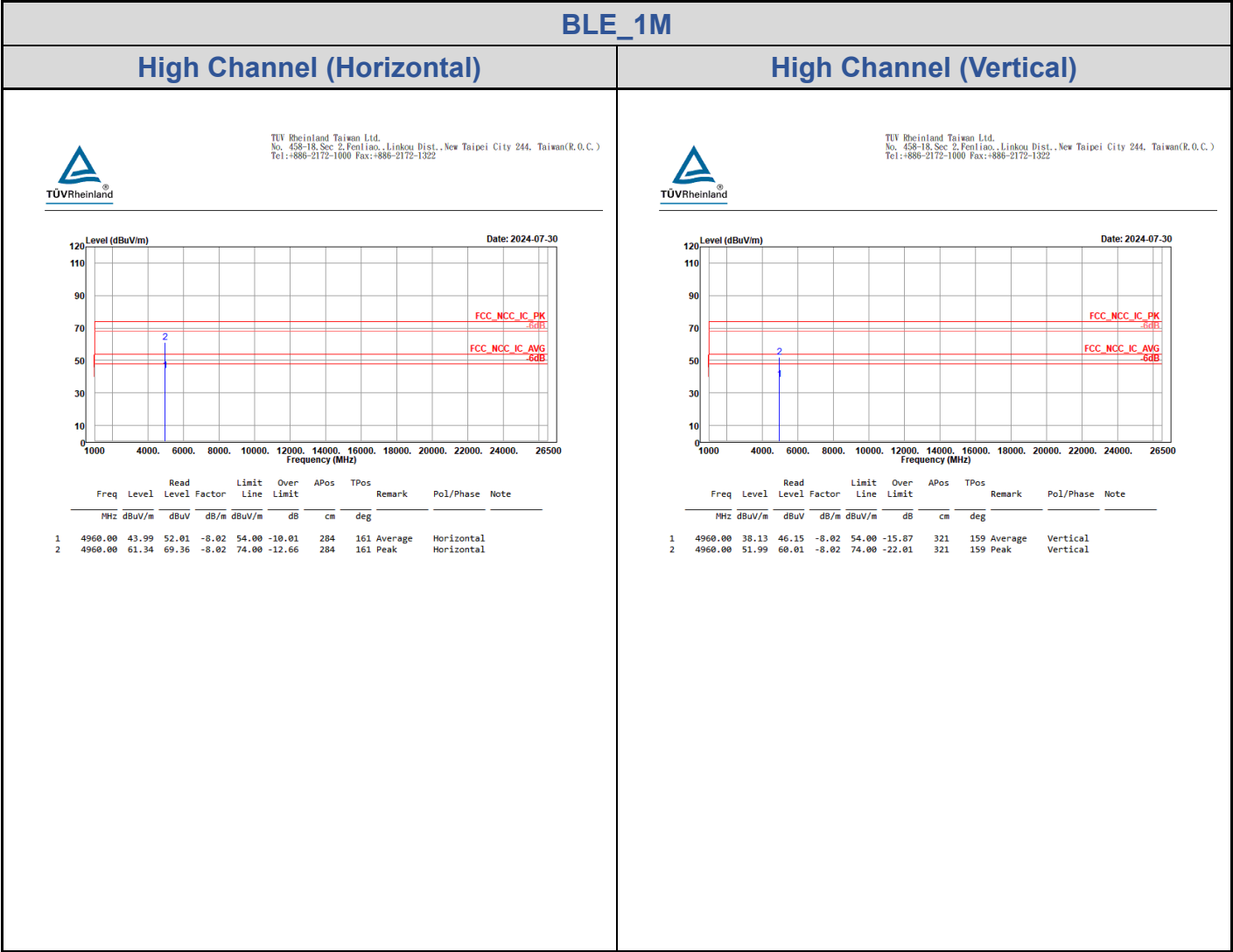
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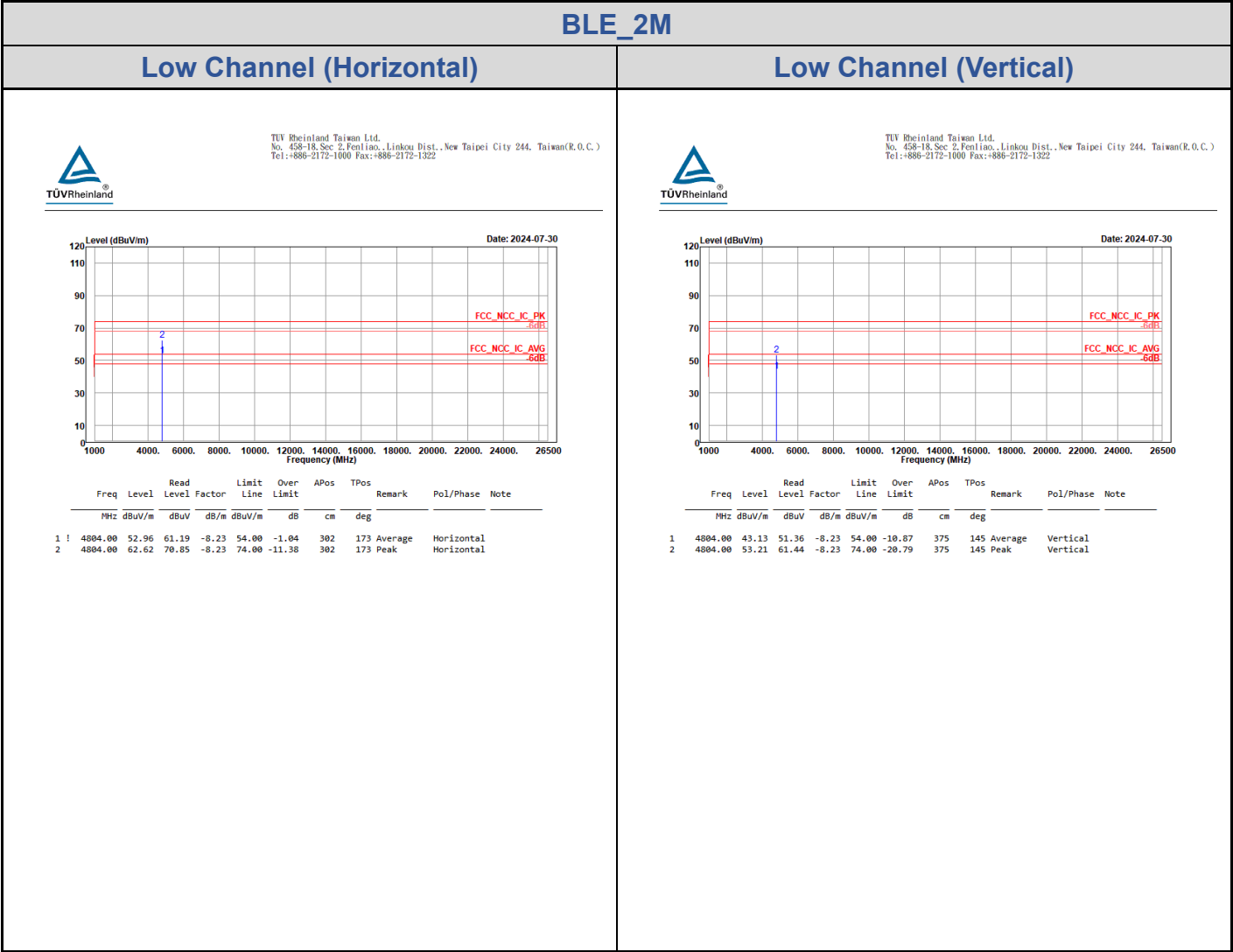
Frequency (MHz)

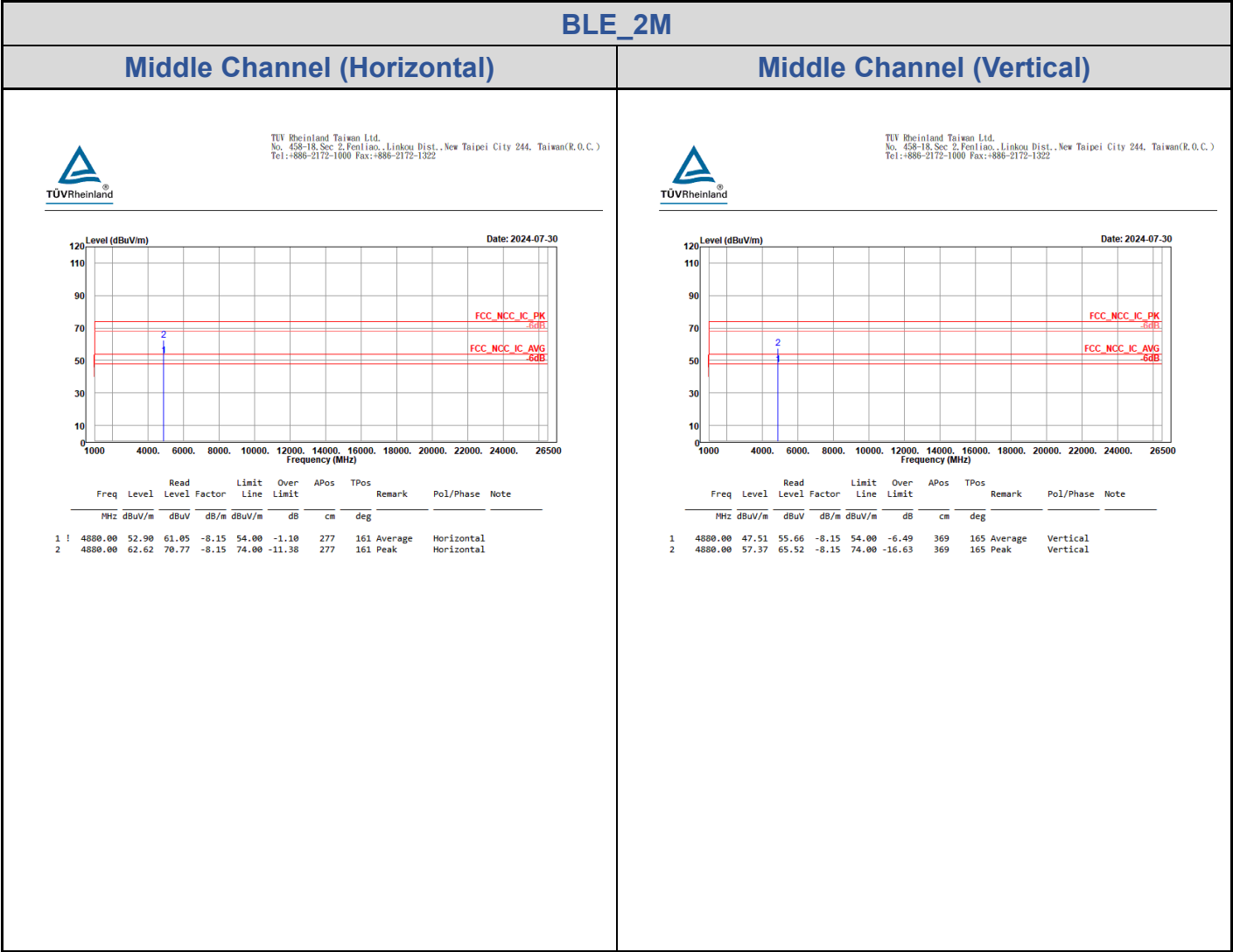
FCC_NCC_IC

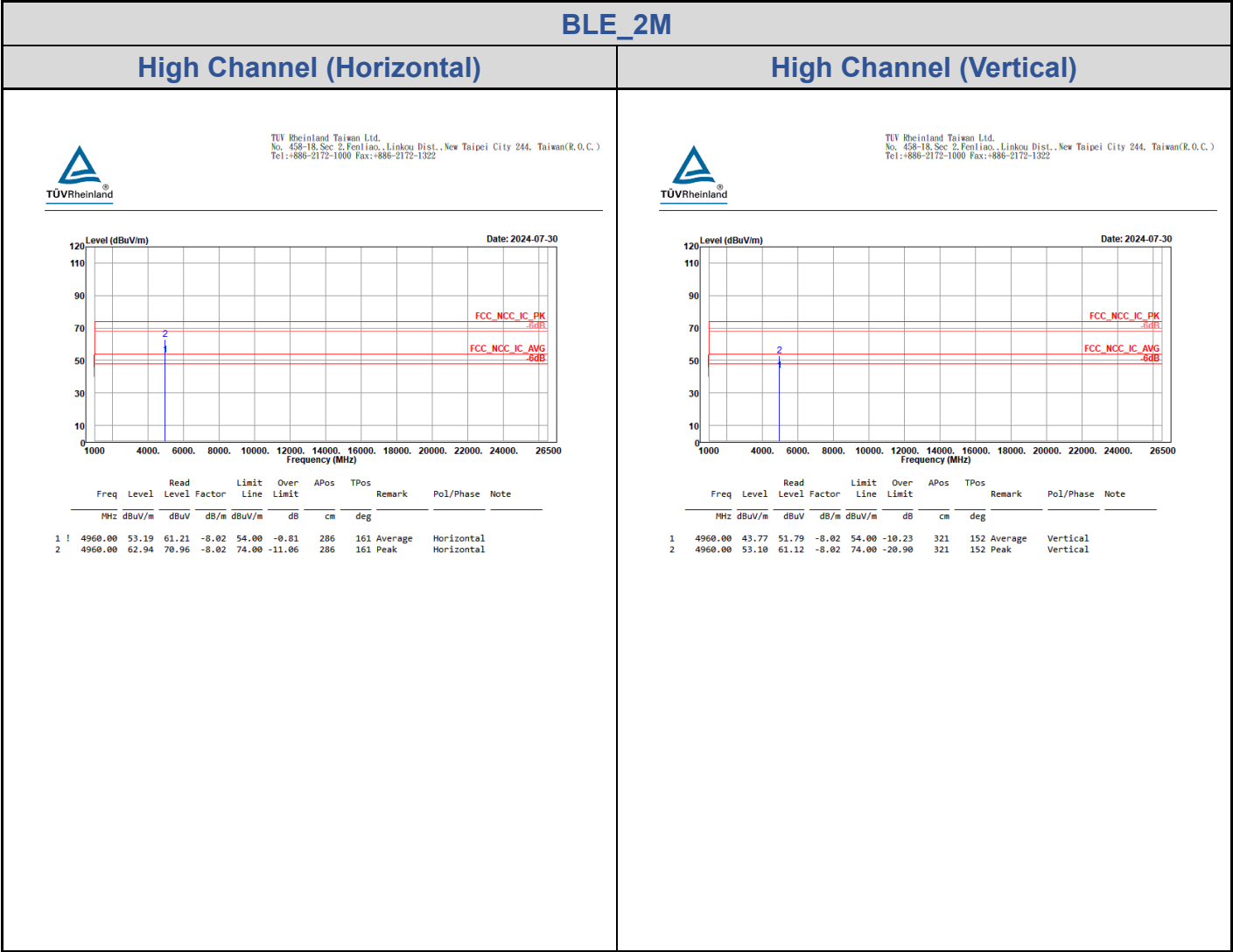
5dB

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	47.46	32.17	38.25	-6.08	40.00	-7.83	100	294 Peak	Vertical	
2	83.35	34.78	46.57	-11.79	40.00	-5.22	200	262 Peak	Vertical	
3	95.96	35.04	46.67	-11.63	43.50	-8.46	100	36 Peak	Vertical	
4	167.74	25.59	31.23	-5.64	43.50	-17.91	200	145 Peak	Vertical	
5	197.81	25.29	33.55	-8.26	43.50	-18.21	100	350 Peak	Vertical	
6	288.02	28.46	34.04	-5.58	46.00	-17.54	100	62 Peak	Vertical	









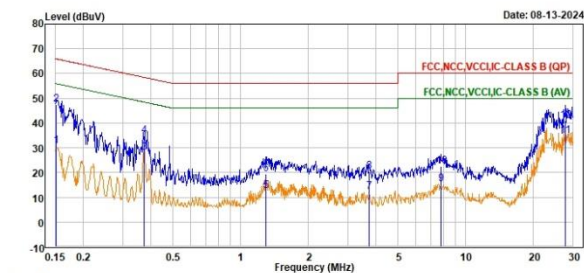
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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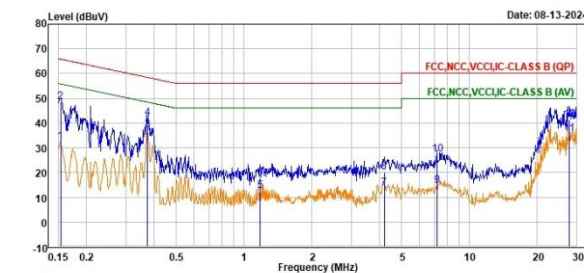


Trace:	Frequency (MHz)							
	Freq		Read	Limit	Over	Pol/Phase	Note	
	Level	Level	Factor	Line	Limit			Remark
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.15	30.57	20.94	9.63	55.92	-25.35	Average	line1
2	0.15	47.63	38.00		63.58	-18.29	QP	line1
3	0.37	27.93	18.30		50.47	-20.54	Average	line1
4	0.37	34.68	25.05	9.63	58.47	-23.79	QP	line1
5	1.30	12.64	3.00		46.00	-33.36	Average	line1
6	1.30	19.92	9.68		56.04	-36.68	QP	line1
7	3.72	12.39	2.73		46.00	-33.36	Average	line1
8	3.72	20.59	10.91		56.08	-35.41	QP	line1
9	7.77	15.37	5.63		50.00	-34.63	Average	line1
10	7.77	22.34	12.60		60.08	-37.66	QP	line1
11	27.84	24.79	25.05		50.00	-35.15	Average	line1
12	27.84	40.82	31.08		60.08	-19.18	QP	line1

(Neutral)



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Trace:	Frequency (MHz)									
	Freq		Read Level		Limit		Over Limit		Remark	Pol/Phase
	Hz	dBuV	dBuV	dB	dBuV	dB	dB	dB		
1	0.15	32.56	22.93	9.63	55.83	-23.27	Average		neutral	
2	0.15	48.41	38.78		63.3	65.83	-17.42	QP		neutral
3	0.37	37.39	27.76	9.63	48.47	-11.31	Average		neutral	
4	0.37	42.16	32.53		63.3	58.47	-16.31	QP		neutral
5	1.18	12.58	2.94		64.4	66.4	-33.42	Average		neutral
6	1.18	17.73	8.09		64.4	56.00	-38.27	QP		neutral
7	4.19	45.45	37.65		46.4	45.45	-32.32	Average		neutral
8	4.19	20.05	10.36		6.69	56.00	-35.95	QP		neutral
9	7.18	14.52	4.77		7.75	50.00	-35.48	Average		neutral
10	7.18	22.25	17.50		7.75	60.00	-32.75	QP		neutral
11	27.87	35.51	25.63		6.88	60.00	-14.14	Average		neutral
12	27.87	41.40	31.52		8.88	60.00	-18.60	QP		neutral

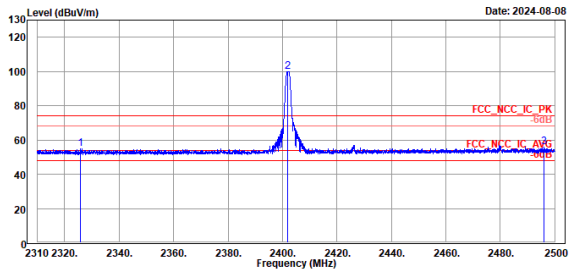
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



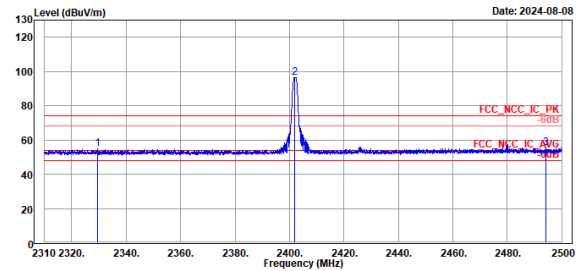
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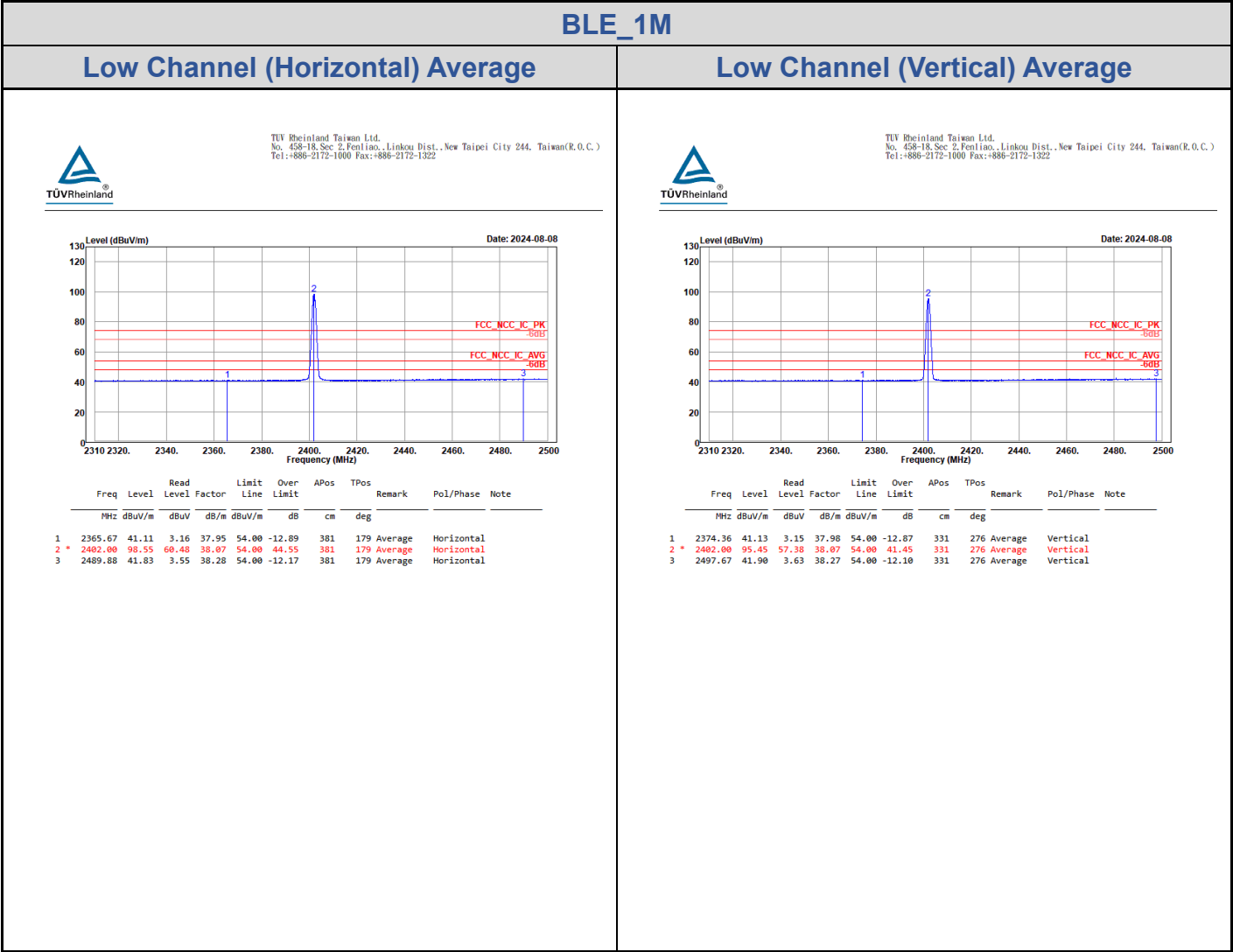
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2325.72	54.70	16.93	37.77	74.00	-19.30	381	179	Peak	Horizontal	
2 *	2402.00	99.84	61.77	38.07	74.00	25.84	381	179	Peak	Horizontal	
3	2496.11	55.77	17.49	38.28	74.00	-18.23	381	179	Peak	Horizontal	

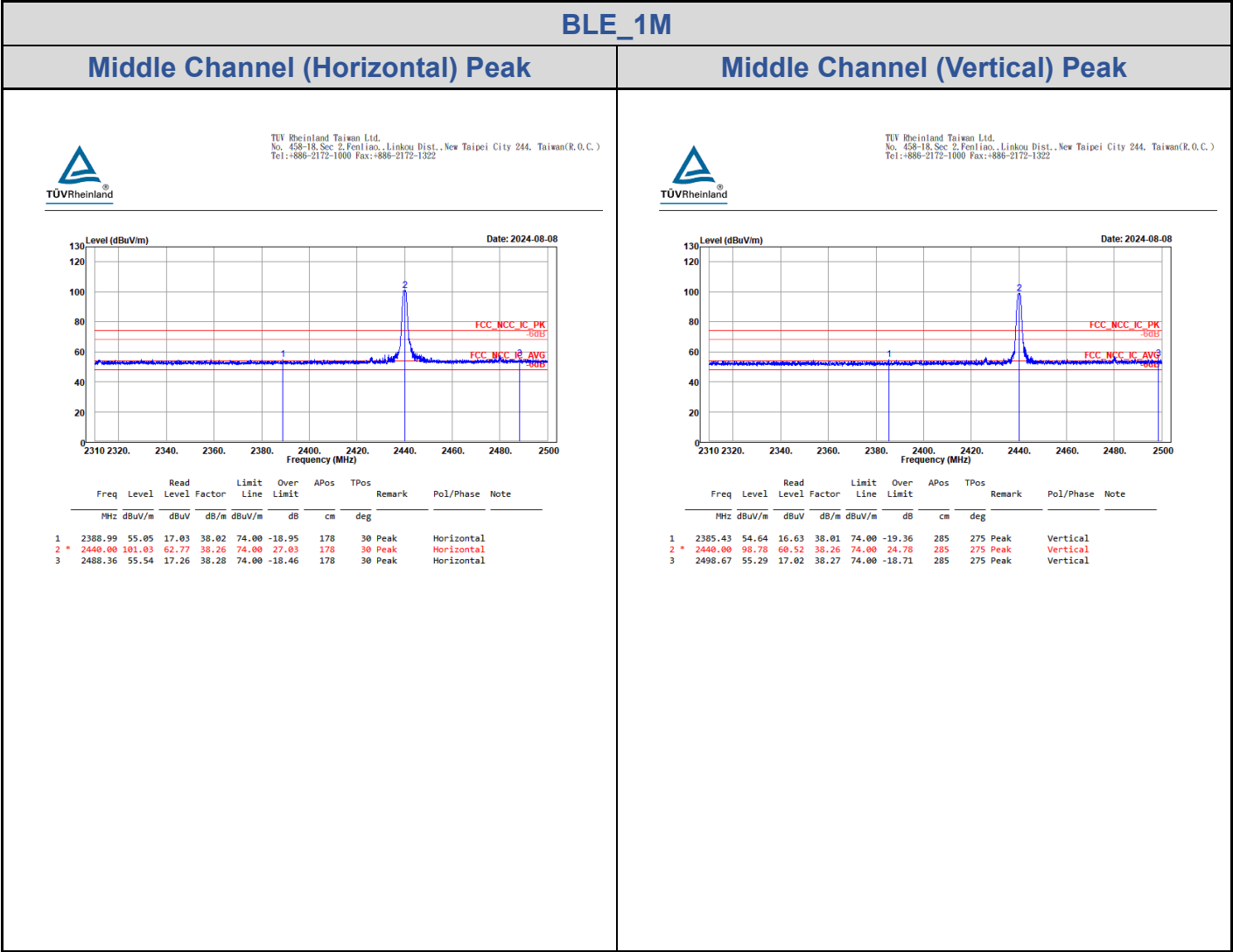


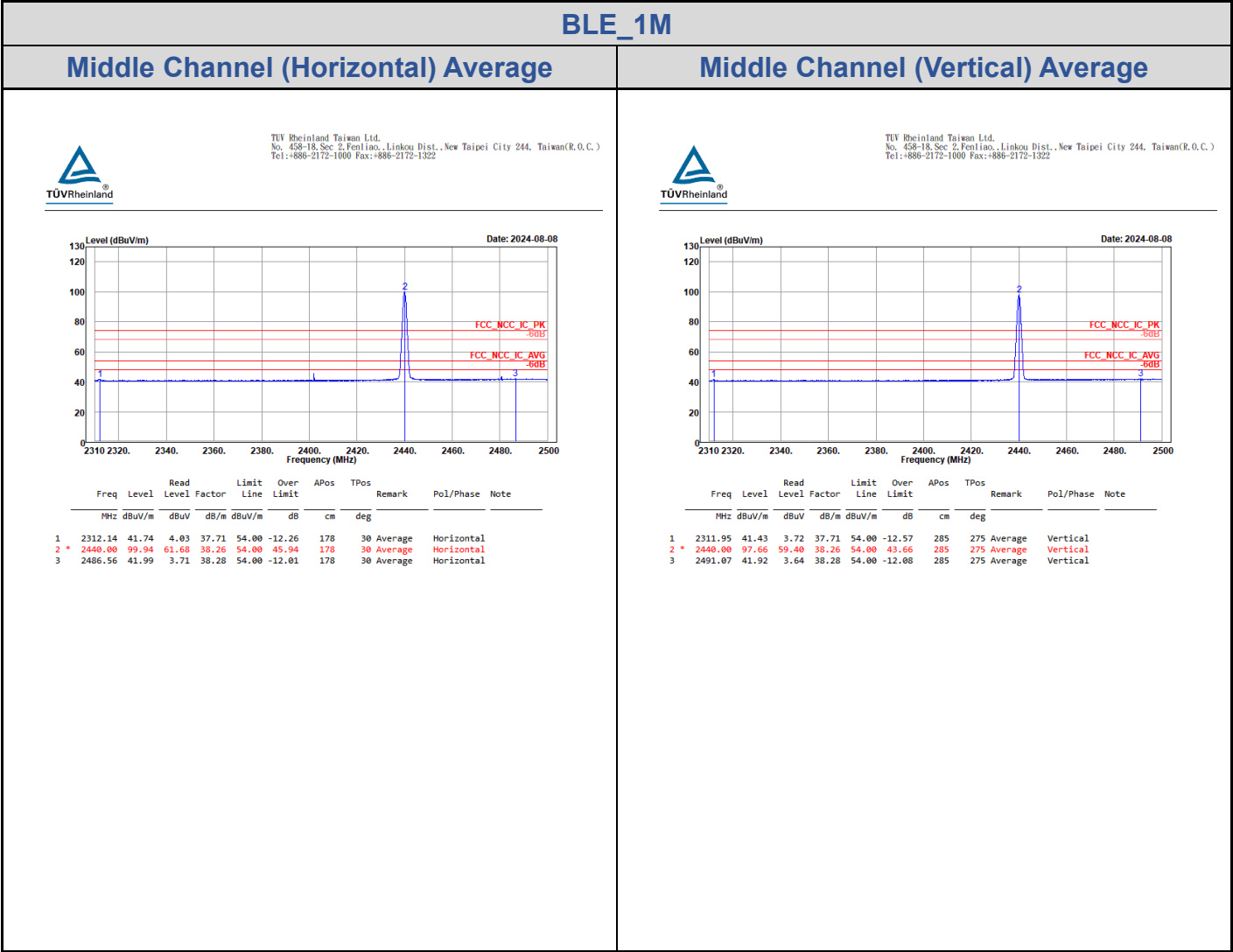
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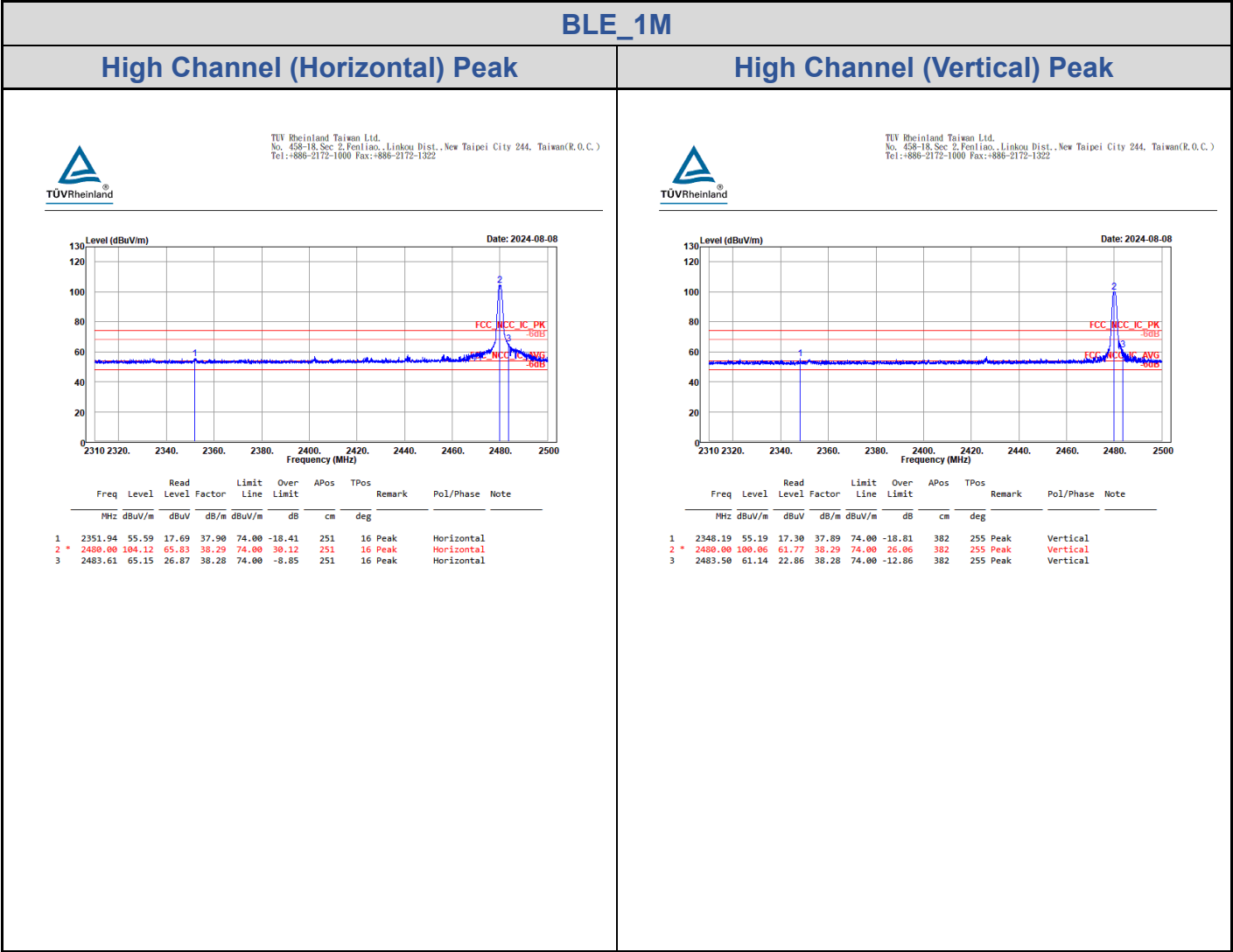


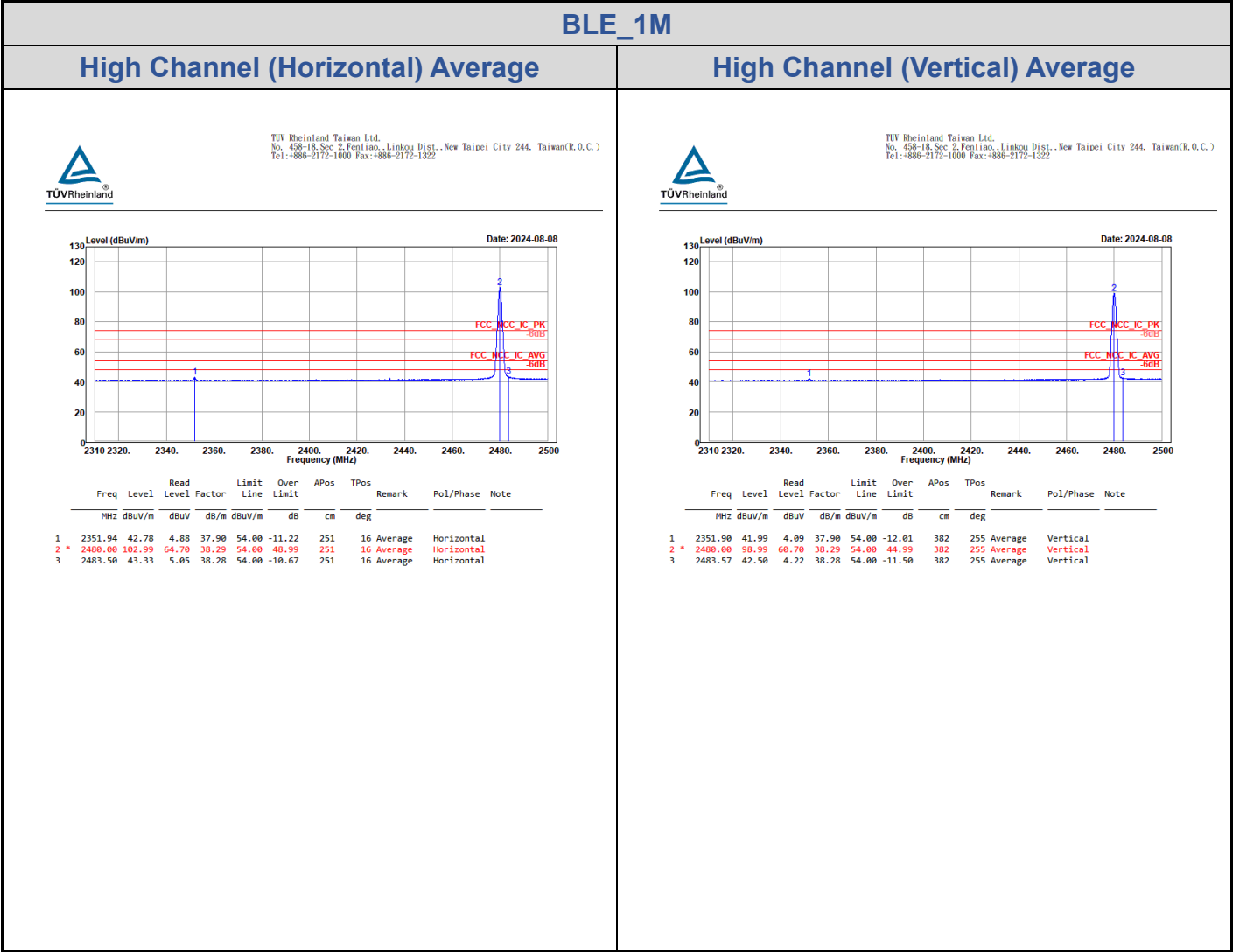
	Freq	Read Level	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	2329.48	54.83	17.03	37.80	74.00	-19.17	331	276 Peak	Vertical
2	2402.00	96.53	58.46	38.07	74.00	22.53	331	276 Peak	Vertical
3	2494.30	55.49	17.22	38.27	74.00	-18.51	331	276 Peak	Vertical

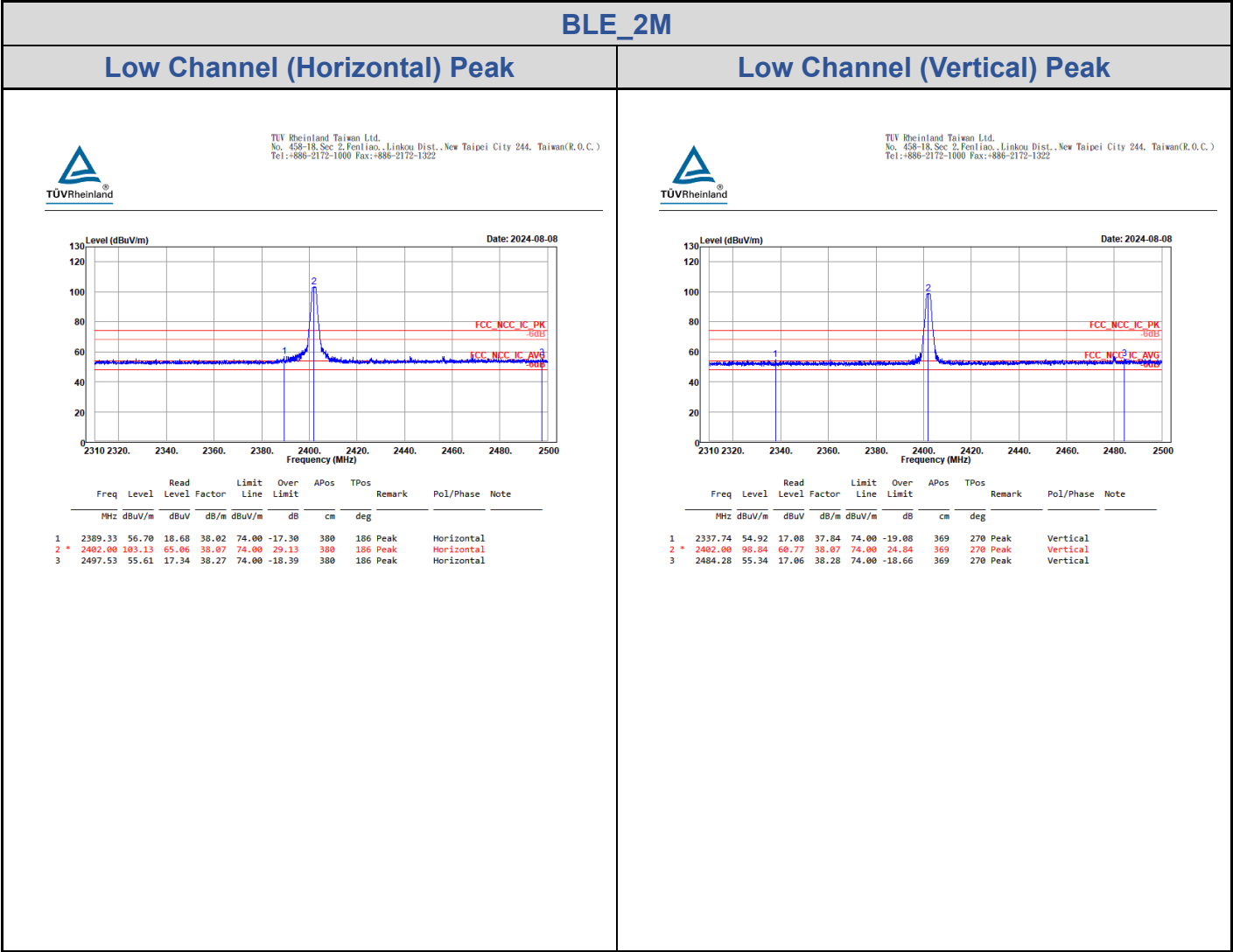










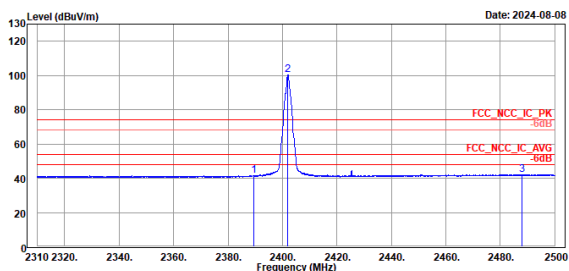


BLE_2M

Low Channel (Horizontal) Average



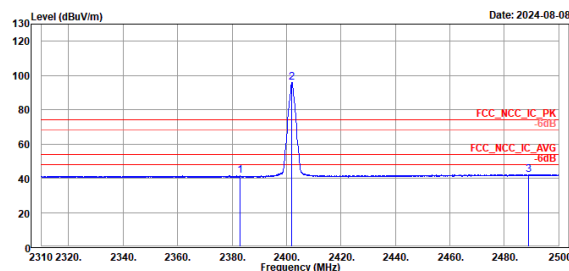
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	Freq	Level	Read Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dBuV/m	dB	cm	deg			
1	2389.37	41.57	3.55	38.02	54.00	-12.43	380	186 Average	Horizontal	
2 *	2402.00	100.26	62.19	38.07	54.00	46.26	380	186 Average	Horizontal	
3	2487.89	42.22	3.94	38.28	54.00	-11.78	380	186 Average	Horizontal	

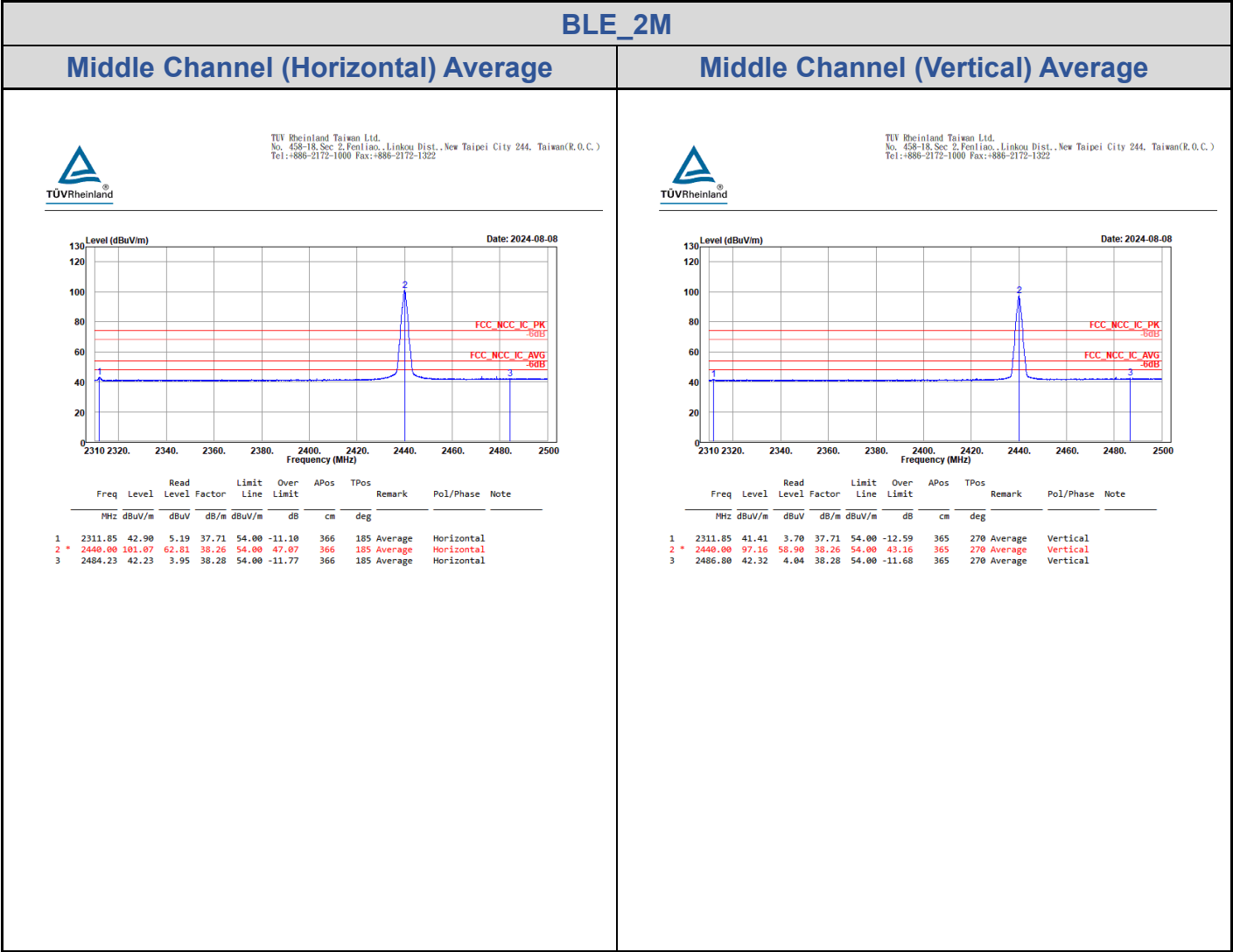


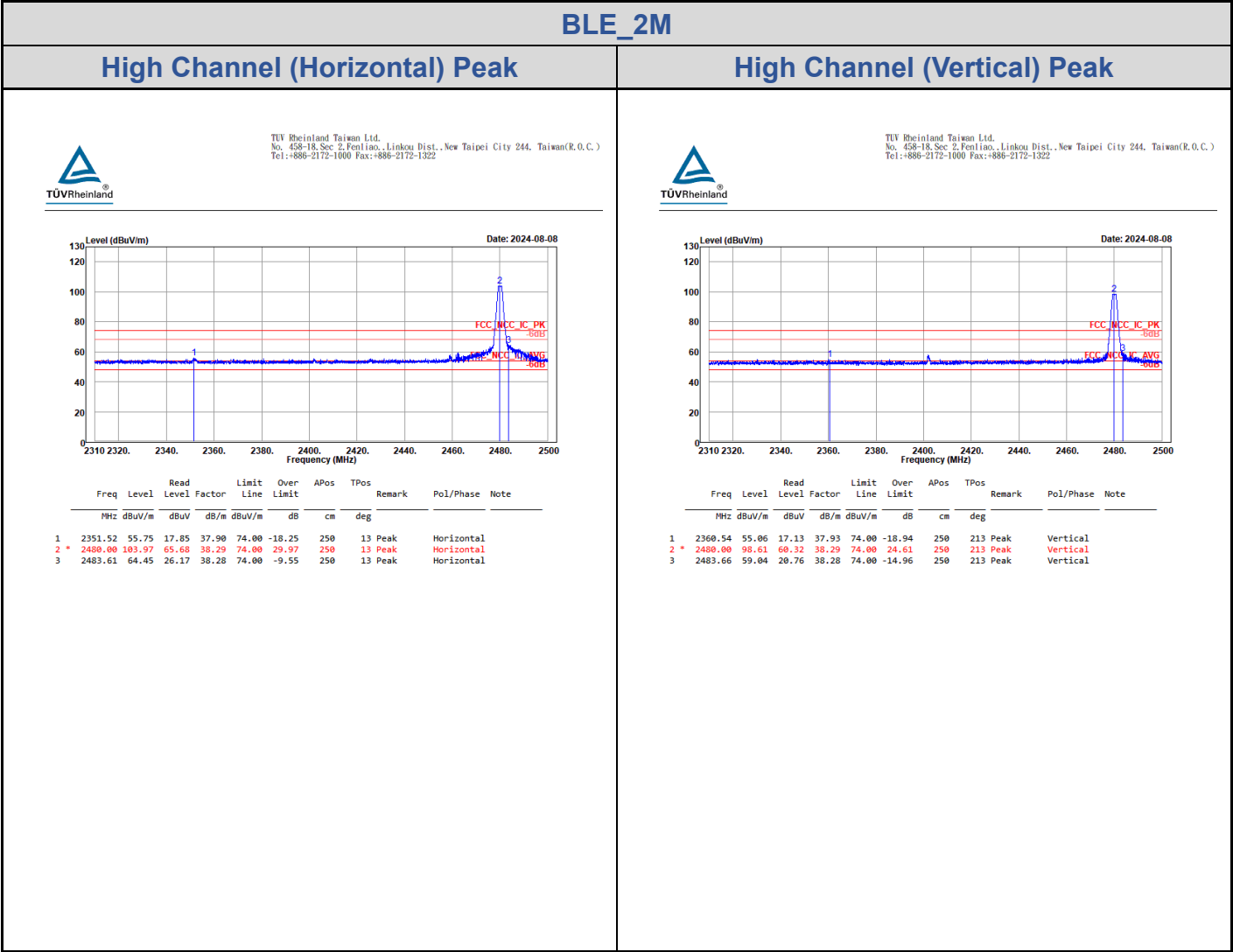
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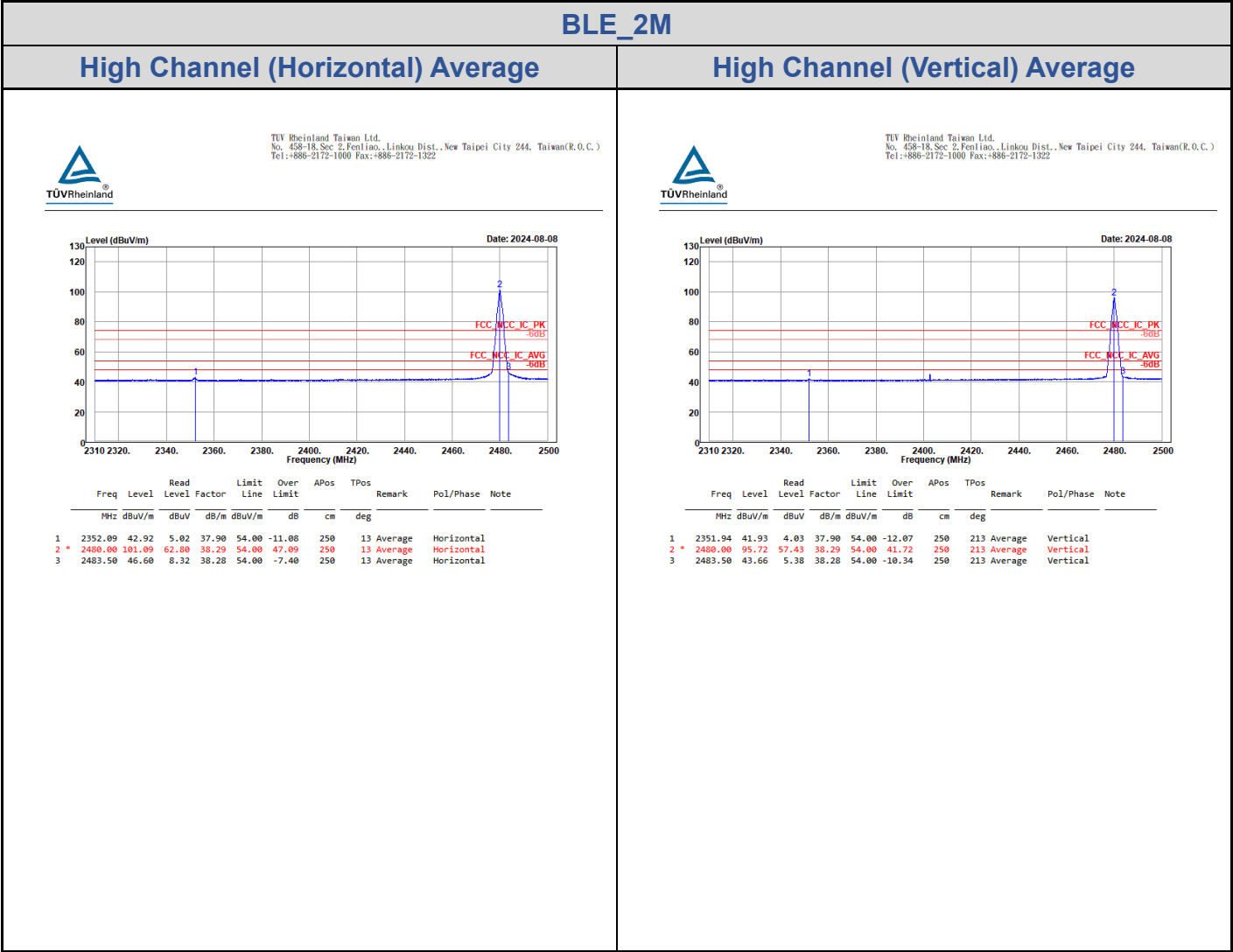


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2382.87	41.41	3.40	38.81	54.00	-12.59	369	278	Average	Vertical	
2 *	2402.00	95.95	57.88	38.87	54.00	41.95	369	278	Average	Vertical	
3	2488.84	42.09	3.81	38.28	54.00	-11.91	369	278	Average	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	2329.48	54.83	17.03	37.80	74.00	-19.17	365	270	Peak	Vertical	
2 *	2440.00	100.04	61.78	38.26	74.00	26.04	365	270	Peak	Vertical	
3	2490.41	55.60	17.32	38.28	74.00	-18.40	365	270	Peak	Vertical	







Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz

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Date: 2024-08-12

Level (dBuV/m)

130

120

100

80

60

40

20

0

0.009

0.15

FCC_NCC_IC

60dB

</

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M

High Channel (Horizontal)

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Level (dBuV/m)

Date: 2024-08-12

	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	71.71	35.67	44.73	-9.06	40.00	-4.33	200	186	Peak	Horizontal	
2 !	83.35	37.31	49.10	-11.79	40.00	-2.69	200	186	Peak	Horizontal	
3 !	107.00	37.82	47.79	-9.97	43.50	-5.68	200	11	Peak	Horizontal	
4	120.21	36.68	45.67	-8.99	43.50	-6.82	200	11	Peak	Horizontal	
5	251.16	32.62	39.29	-6.67	46.00	-13.38	100	126	Peak	Horizontal	
6	287.05	38.03	43.65	-5.62	46.00	-7.97	100	16	Peak	Horizontal	

High Channel (Vertical)

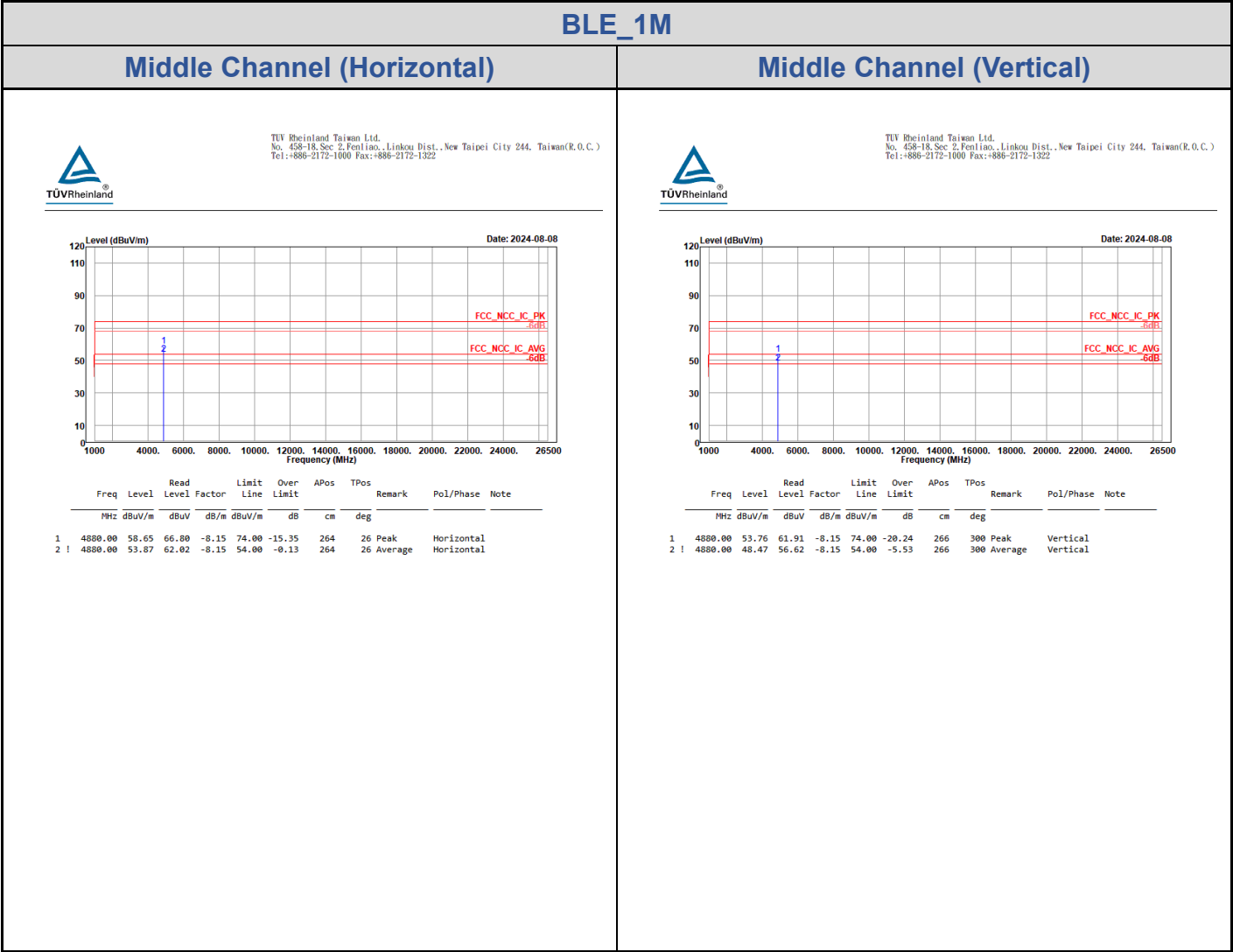
TÜVRheinland

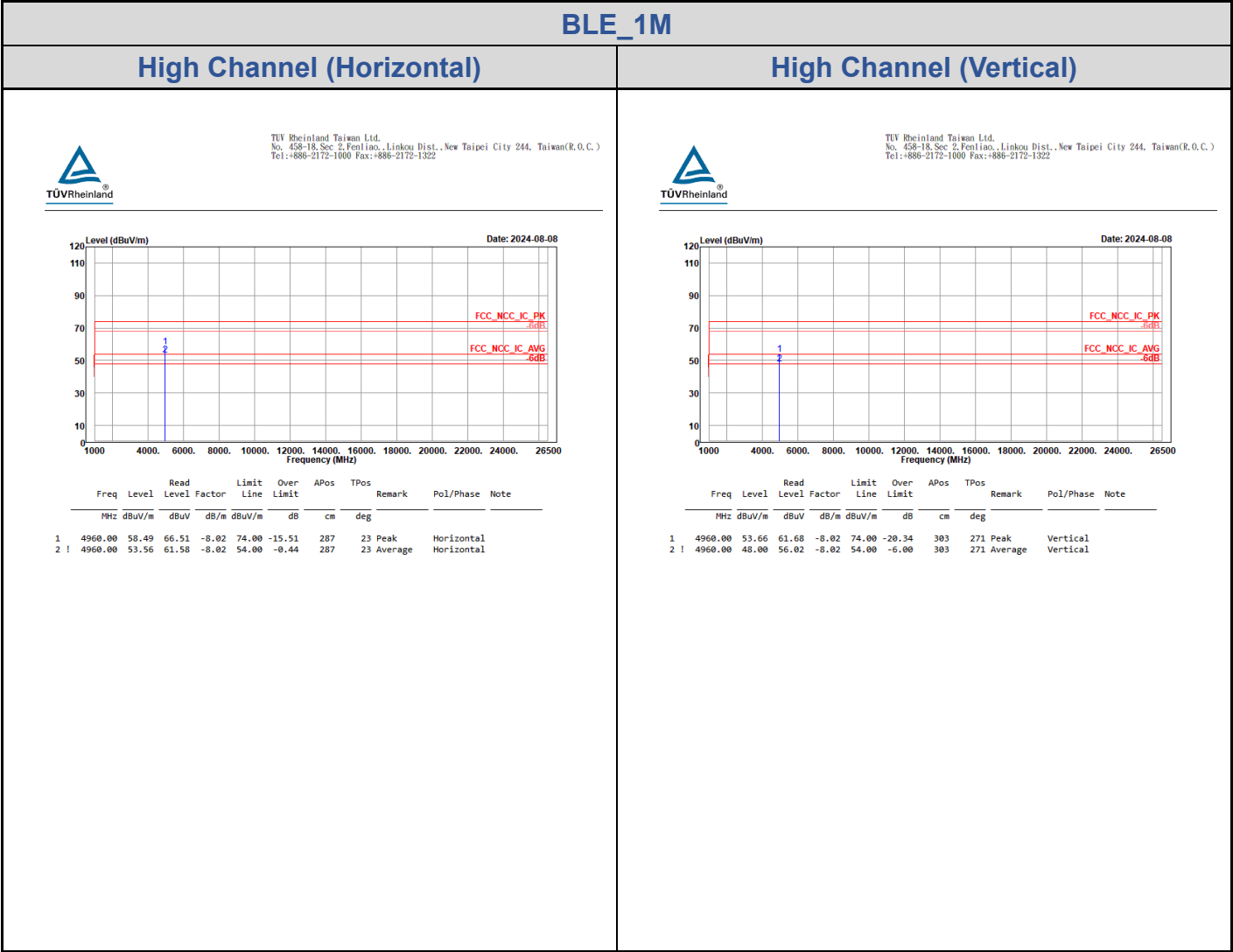
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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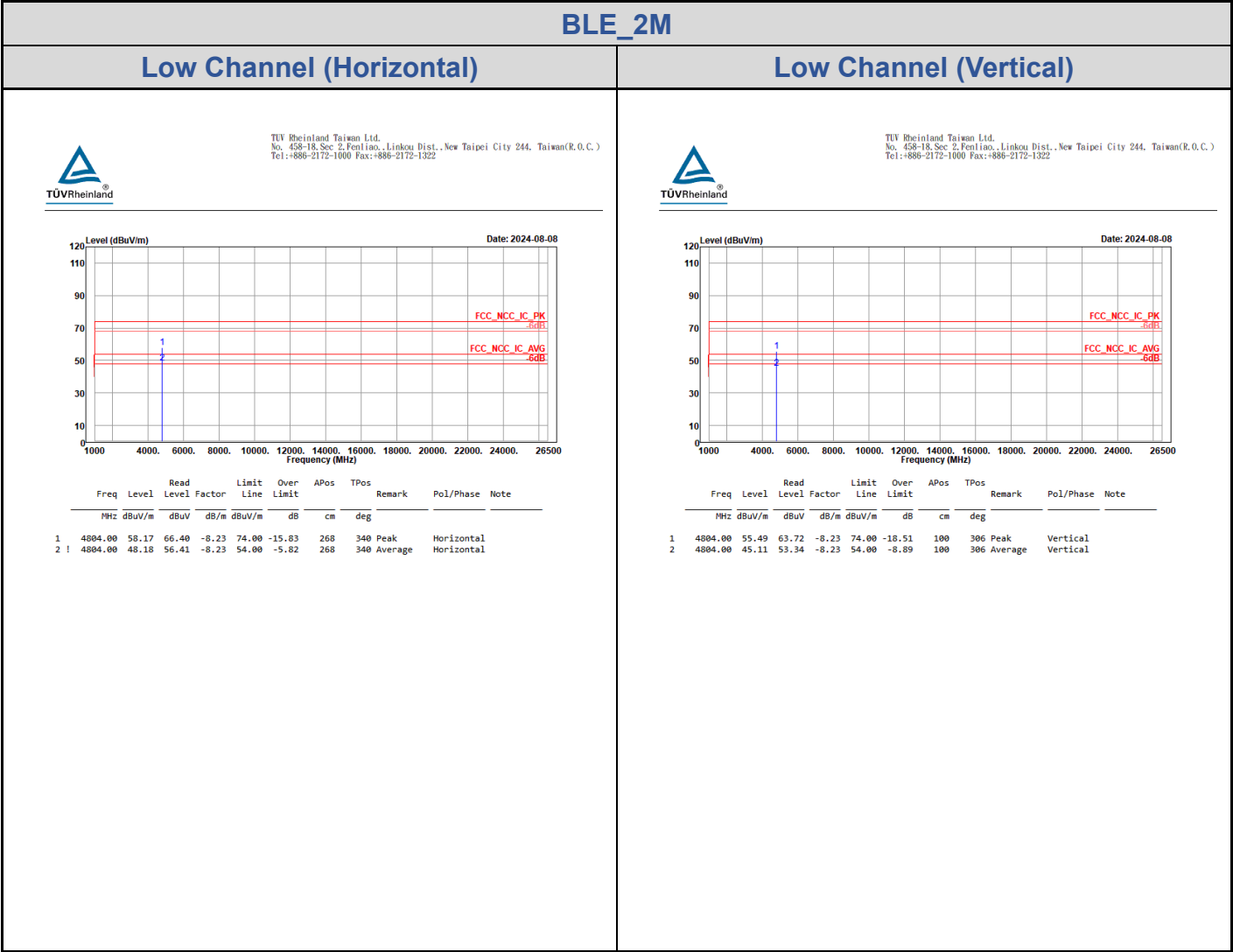
Level (dBuV/m)

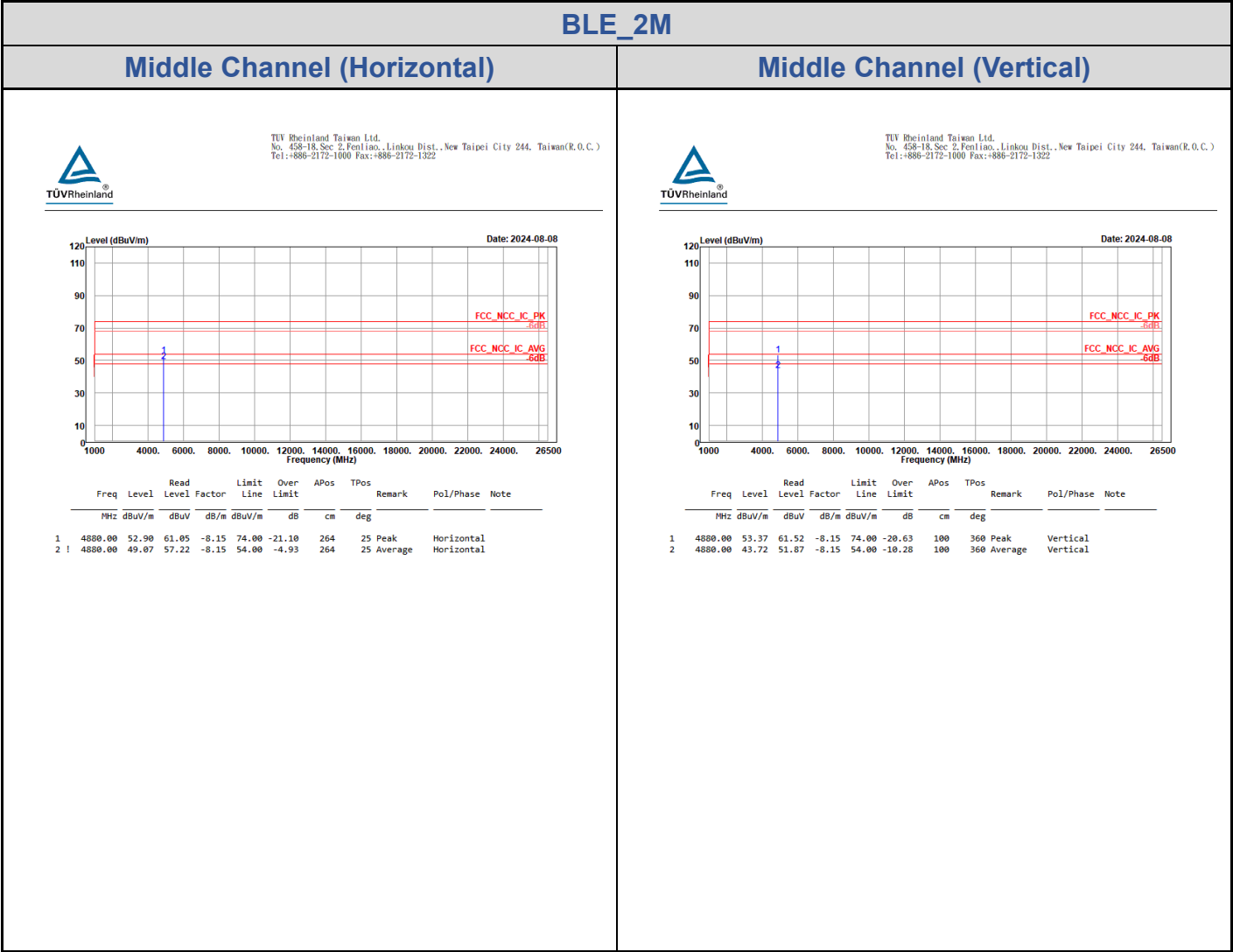
Date: 2024-08-12

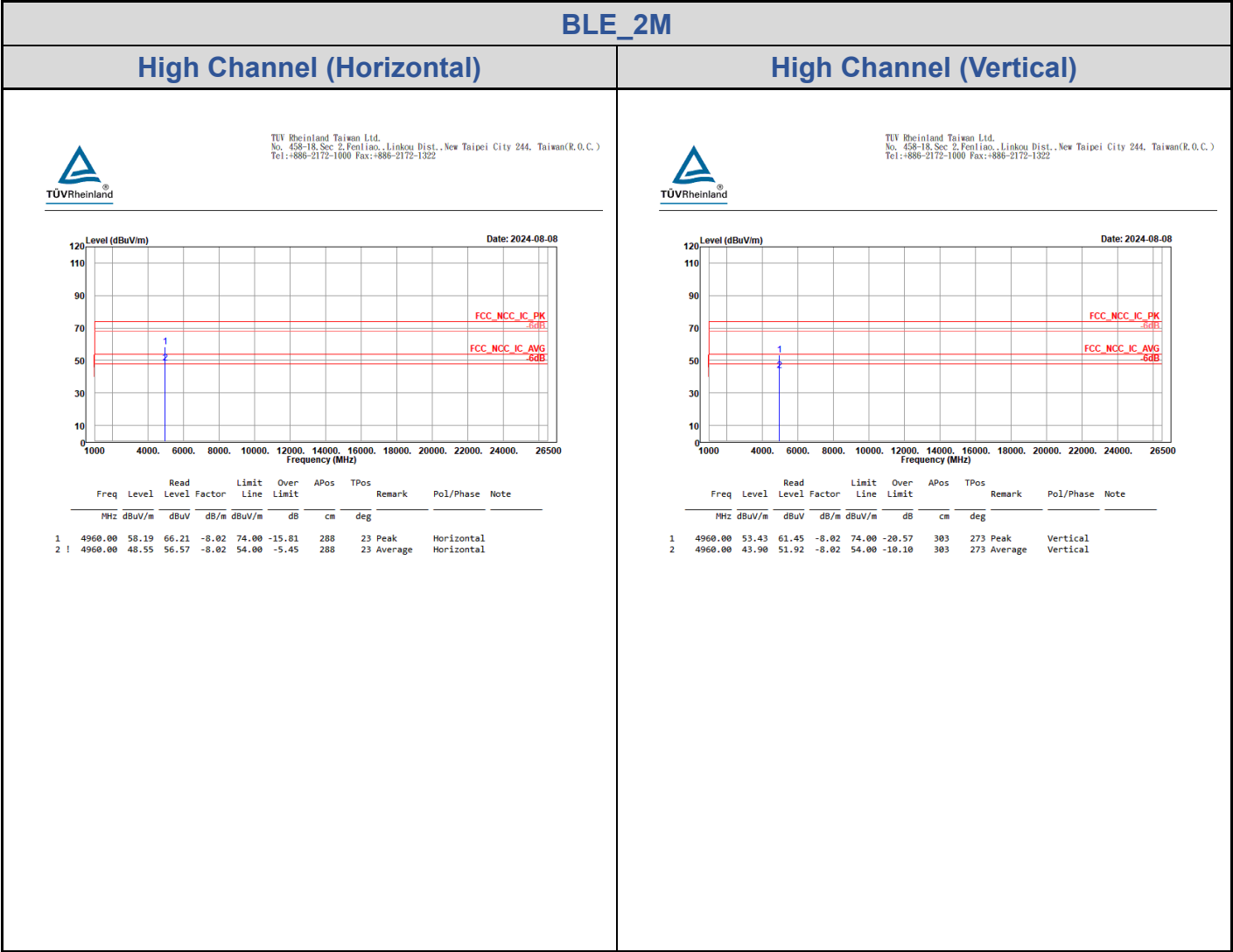
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	47.46	34.94	41.02	-6.08	40.00	-5.06	100	346	Peak	Vertical	
2 !	83.35	34.38	46.17	-11.79	40.00	-5.62	200	278	Peak	Vertical	
3	95.96	35.16	46.79	-11.63	43.50	-8.34	100	58	Peak	Vertical	
4	263.77	28.35	34.00	-6.45	46.00	-17.65	200	151	Peak	Vertical	
5	288.02	29.41	34.99	-5.58	46.00	-16.59	100	64	Peak	Vertical	
6	612.97	30.11	29.19	0.92	46.00	-15.89	100	71	Peak	Vertical	











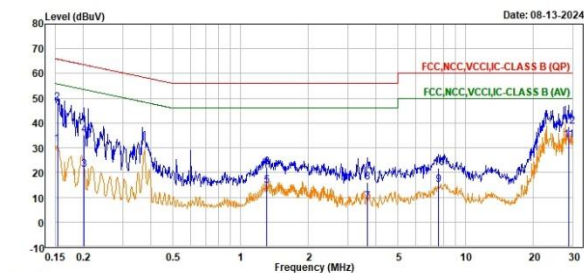
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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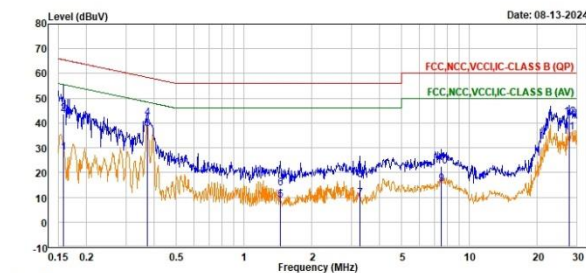


Trace: 1	Frequency (MHz)							
	Freq		Read Level Factor		Limit Line		Over Limit Remark	
	MHz	dBuV	dBuV	dB	dBuV	dB	Pol/Phase	Note
1	0.15	31.46	21.83	9.63	55.83	-24.37	Average	line1
2	0.15	48.12	38.49	9.63	65.83	-17.71	QP	line1
3	0.20	21.13	11.59	9.63	53.56	-32.84	Average	line1
4	0.20	25.32	25.59	9.63	63.56	-28.34	QP	line1
5	1.30	14.57	4.93	9.64	46.06	-31.43	Average	line1
6	1.30	22.61	12.37	9.64	56.06	-33.99	QP	line1
7	0.20	33.06	23.32	9.74	58.06	-34.95	Average	line1
8	3.66	15.90	6.22	9.68	56.06	-40.10	QP	line1
9	7.58	15.05	5.31	9.74	58.06	-34.95	Average	line1
10	7.58	21.85	12.11	9.74	68.06	-18.15	QP	line1
11	28.68	33.06	23.32	9.74	58.06	-34.95	Average	line1
12	28.68	38.68	28.94	9.74	68.06	-21.32	QP	line1

(Neutral)



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Trace: 1	Frequency (MHz)							
	Freq		Read Level Factor		Limit Limit		Over Remark	
	MHz	dBuV	dBuV	dB	dBuV	dB	Pol/Phase	Note
1	0.16	28.04	18.41	9.63	55.59	-27.55	Average	neutral
	0.16	43.73	34.10	9.63	65.59	-21.88	QP	neutral
2	0.37	37.59	27.96	9.63	68.47	-19.88	Average	neutral
4	0.37	42.18	32.55	9.63	58.47	-16.29	QP	neutral
5	1.45	8.87	-0.78	9.65	46.00	-37.13	Average	neutral
6	1.45	13.66	4.01	9.65	56.00	-42.74	QP	neutral
7	3.26	9.35	0.33	9.68	56.00	-36.50	Average	neutral
8	3.26	16.88	7.20	9.68	56.00	-39.12	QP	neutral
9	7.50	15.45	5.69	9.76	50.00	-34.55	Average	neutral
10	7.50	22.27	12.91	9.76	60.00	-37.73	QP	neutral
11	27.87	36.13	26.25	9.88	60.00	-19.88	Average	neutral
12	27.84	42.61	32.93	9.88	60.00	-17.79	QP	neutral

ANT-X100P111B24003
 Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

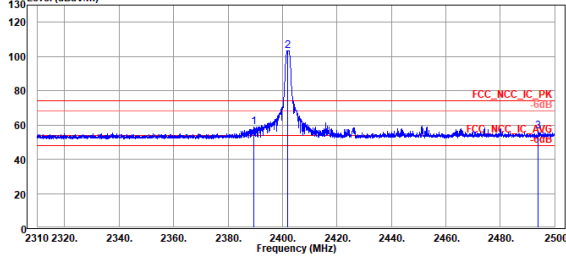
Low Channel (Horizontal) Peak

TÜVRheinland

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Level (dBuV/m)

Date: 2024-08-09



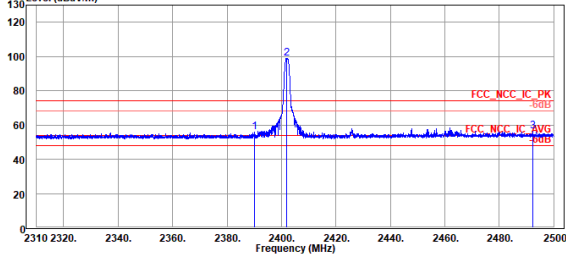
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.37	58.58	20.56	38.02	74.00	-15.42	307	10	Peak	Horizontal	
2 *	2402.00	103.50	65.43	38.07	74.00	29.50	307	10	Peak	Horizontal	
3	2493.97	56.44	18.17	38.27	74.00	-17.56	307	10	Peak	Horizontal	

TÜVRheinland

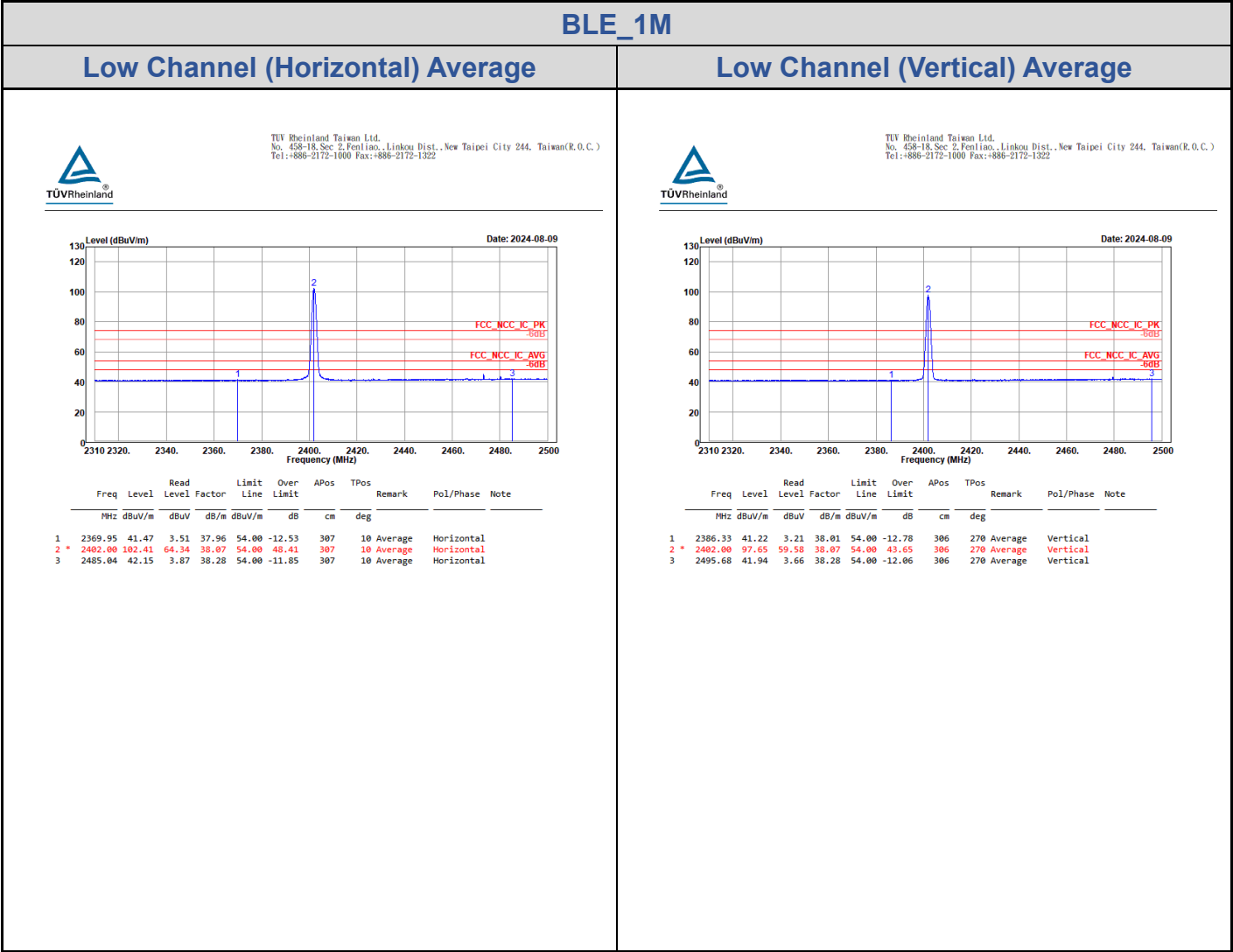
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Level (dBuV/m)

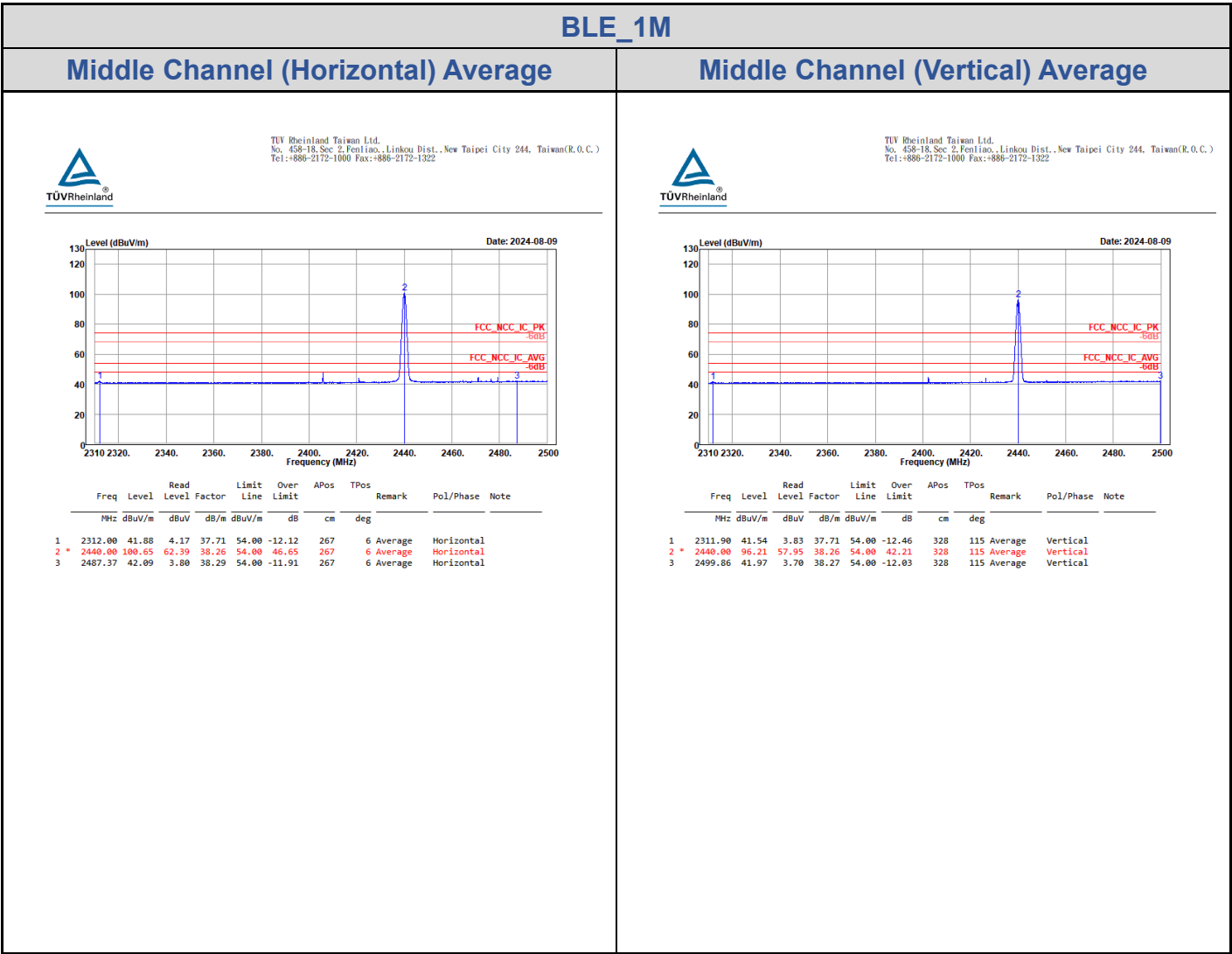
Date: 2024-08-09

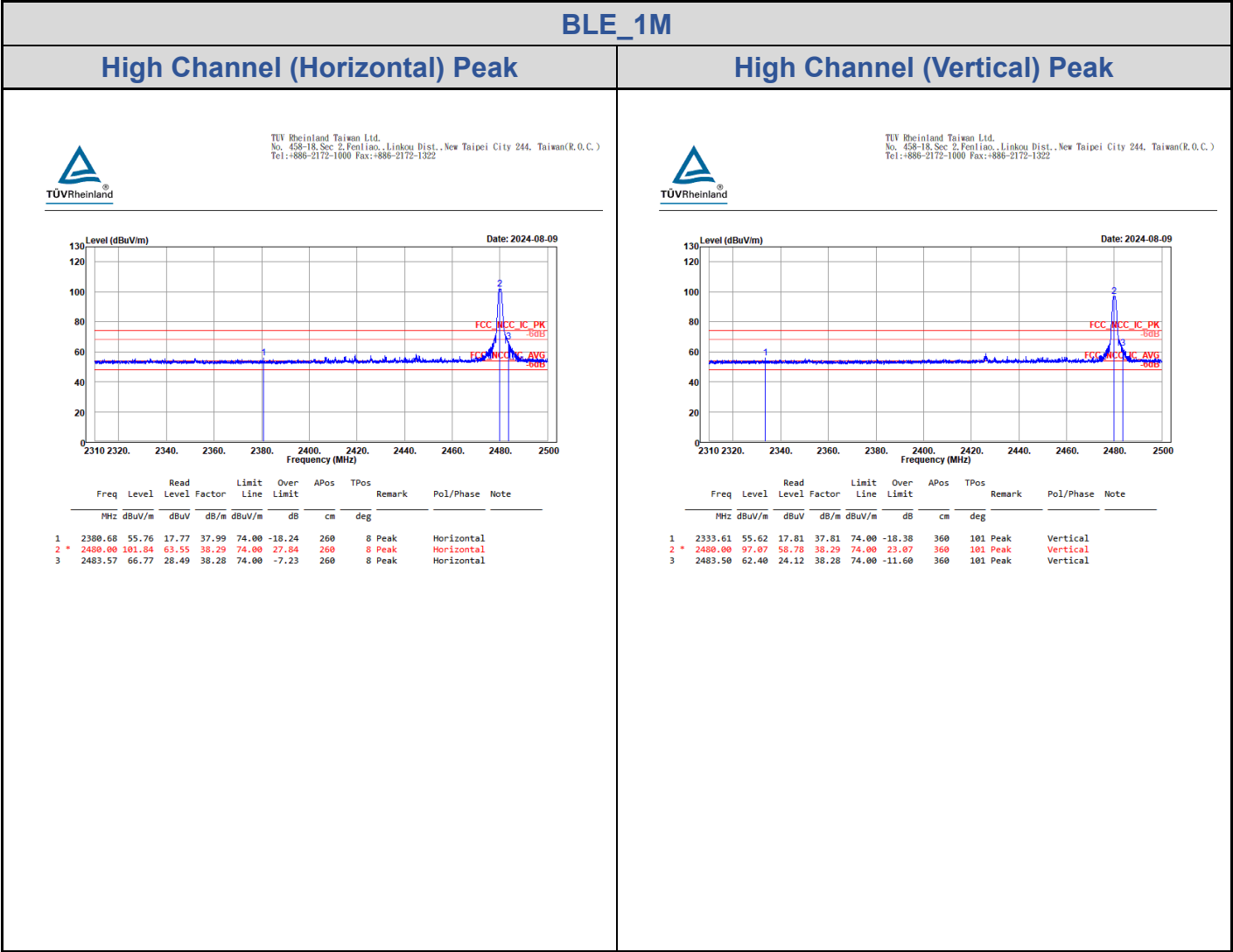


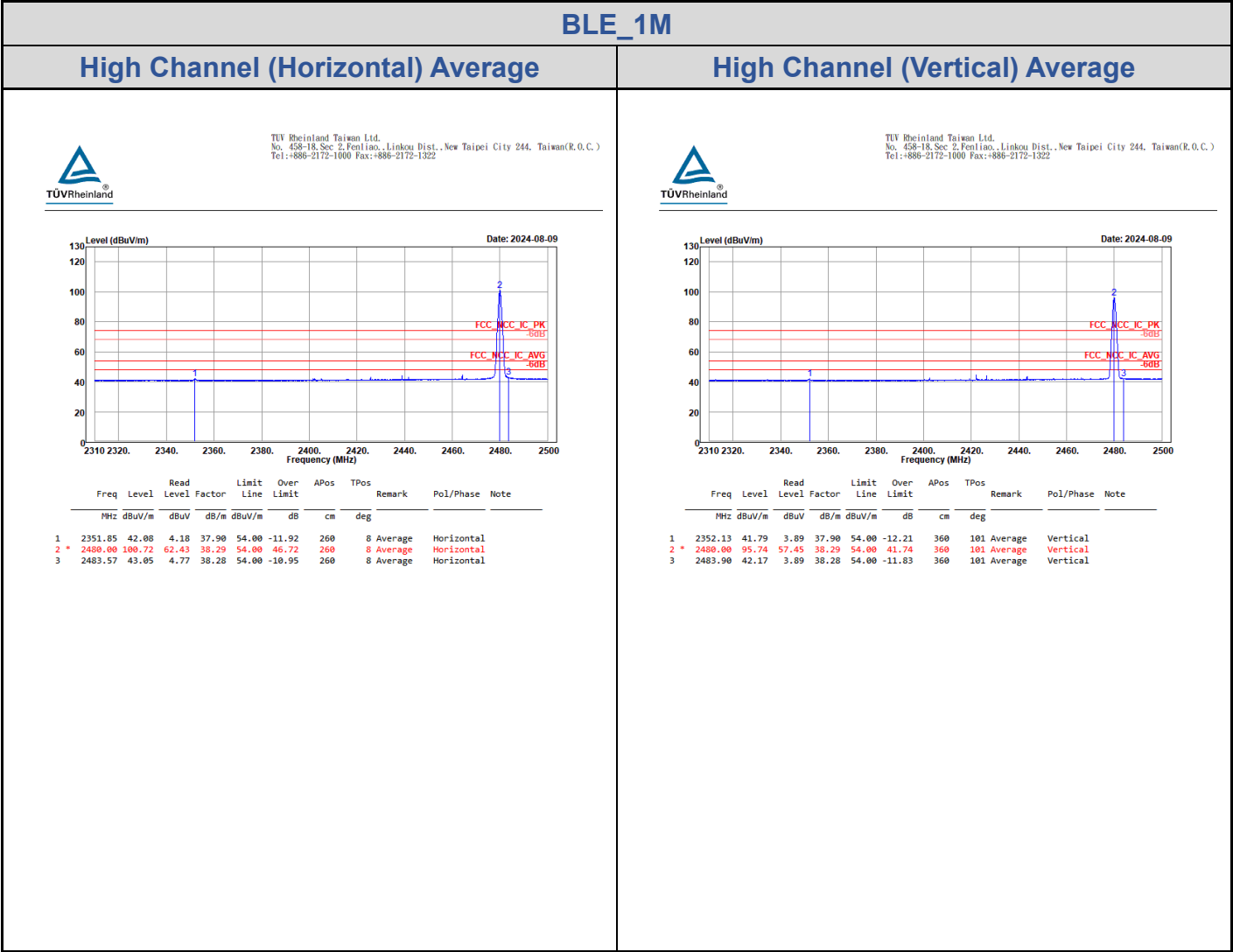
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.99	55.63	17.61	38.02	74.00	-18.37	306	270	Peak	Vertical	
2 *	2402.00	98.78	60.71	38.07	74.00	24.78	306	270	Peak	Vertical	
3	2492.26	56.24	17.96	38.28	74.00	-17.76	306	270	Peak	Vertical	



	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	2336.70	55.09	17.26	37.83	74.00	-18.91	328	115	Peak	Vertical	
2 *	2440.00	97.35	59.09	38.26	74.00	23.35	328	115	Peak	Vertical	
3	2497.34	55.30	17.02	38.26	74.00	-18.70	328	115	Peak	Vertical	





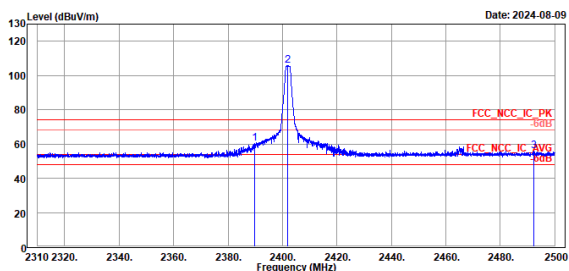


BLE_2M

Low Channel (Horizontal) Peak



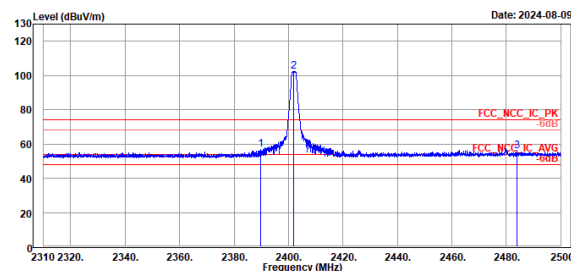
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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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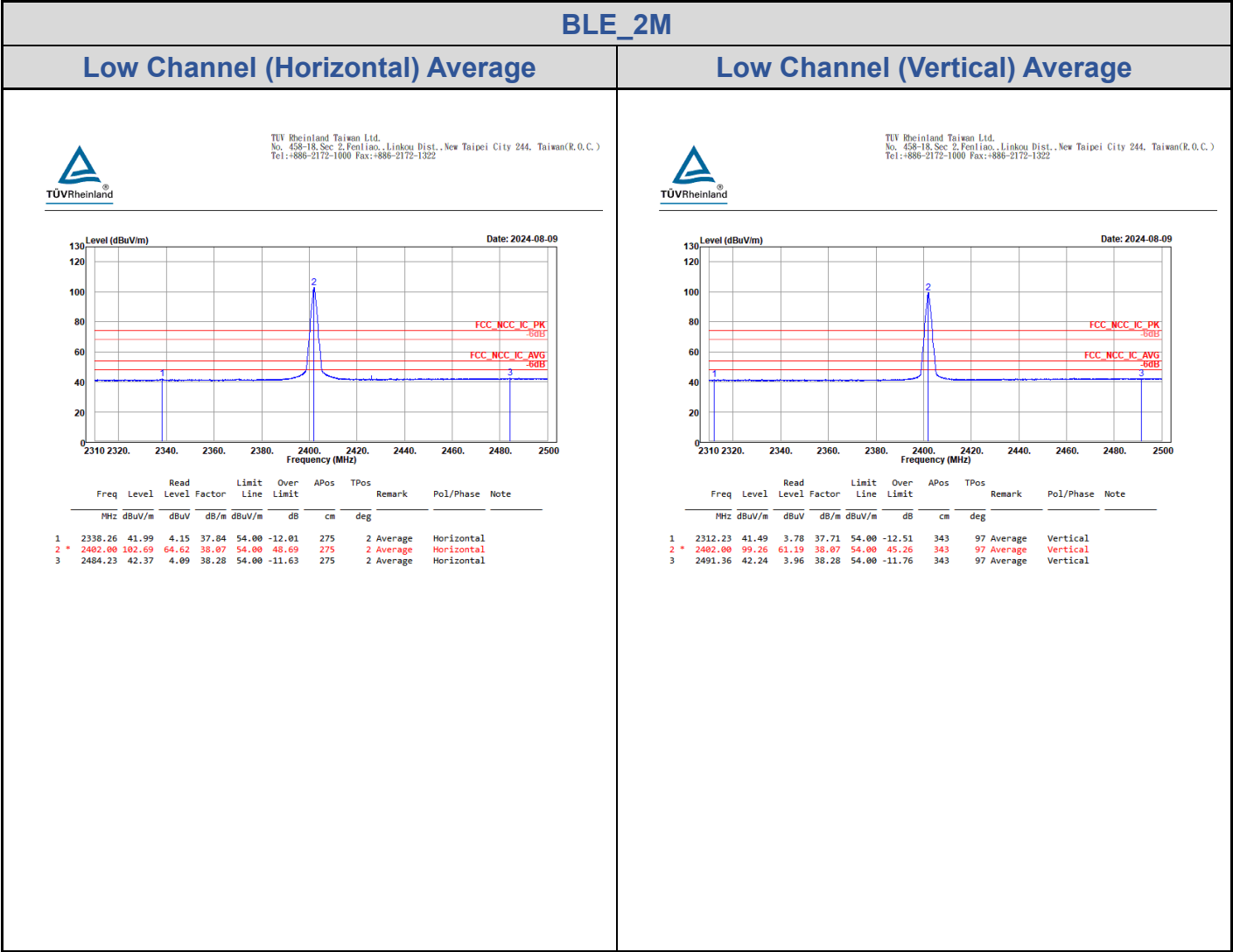
	Freq	Level	Read dBV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBV/m	dBV		dBV/m	dB	cm	deg			
1	2389.85	60.22	22.20	38.02	74.00	-13.78	275	2	Peak	Horizontal	
2 *	2402.00	105.55	67.48	38.07	74.00	31.55	275	2	Peak	Horizontal	
3	2492.21	55.76	17.48	38.28	74.00	-18.24	275	2	Peak	Horizontal	

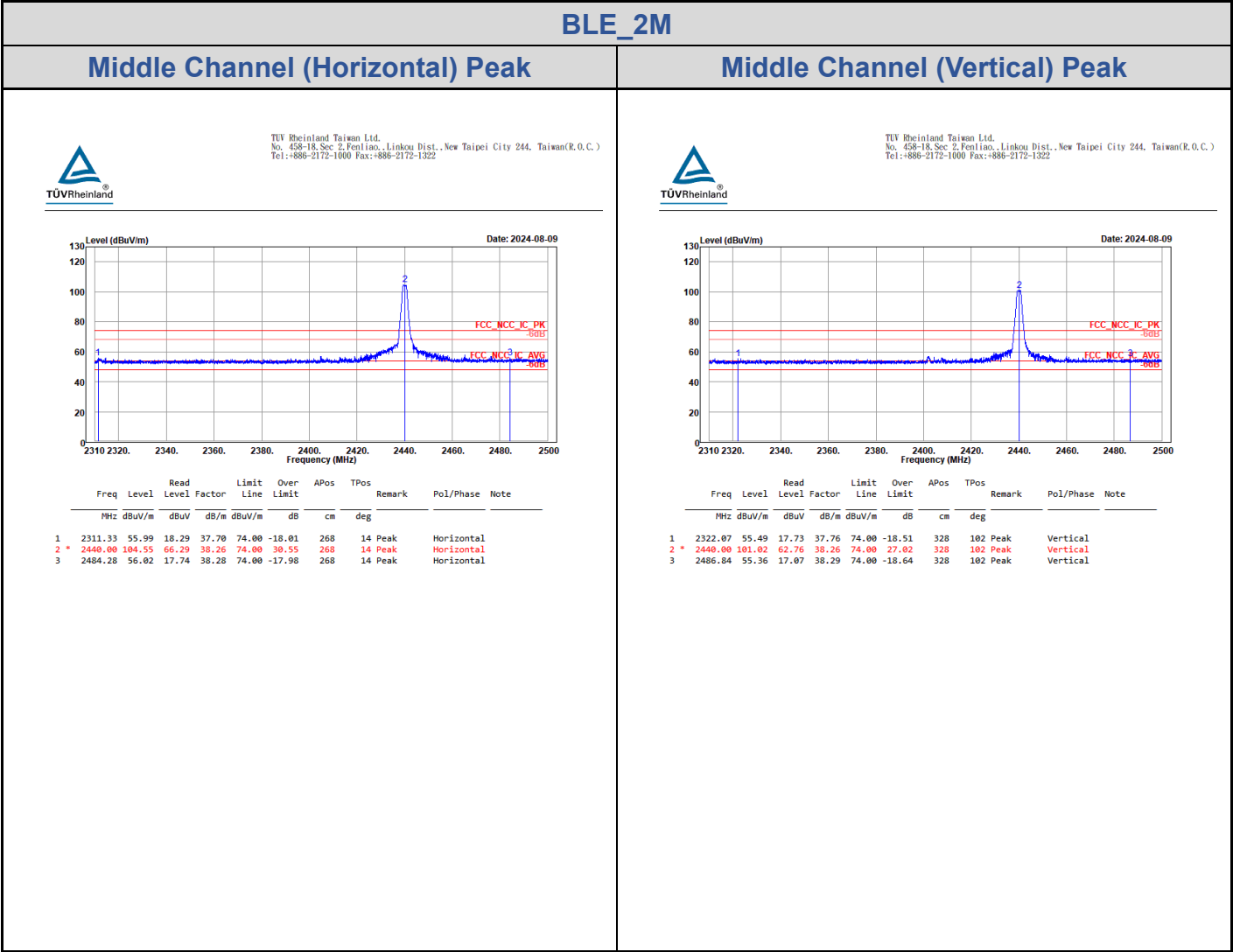


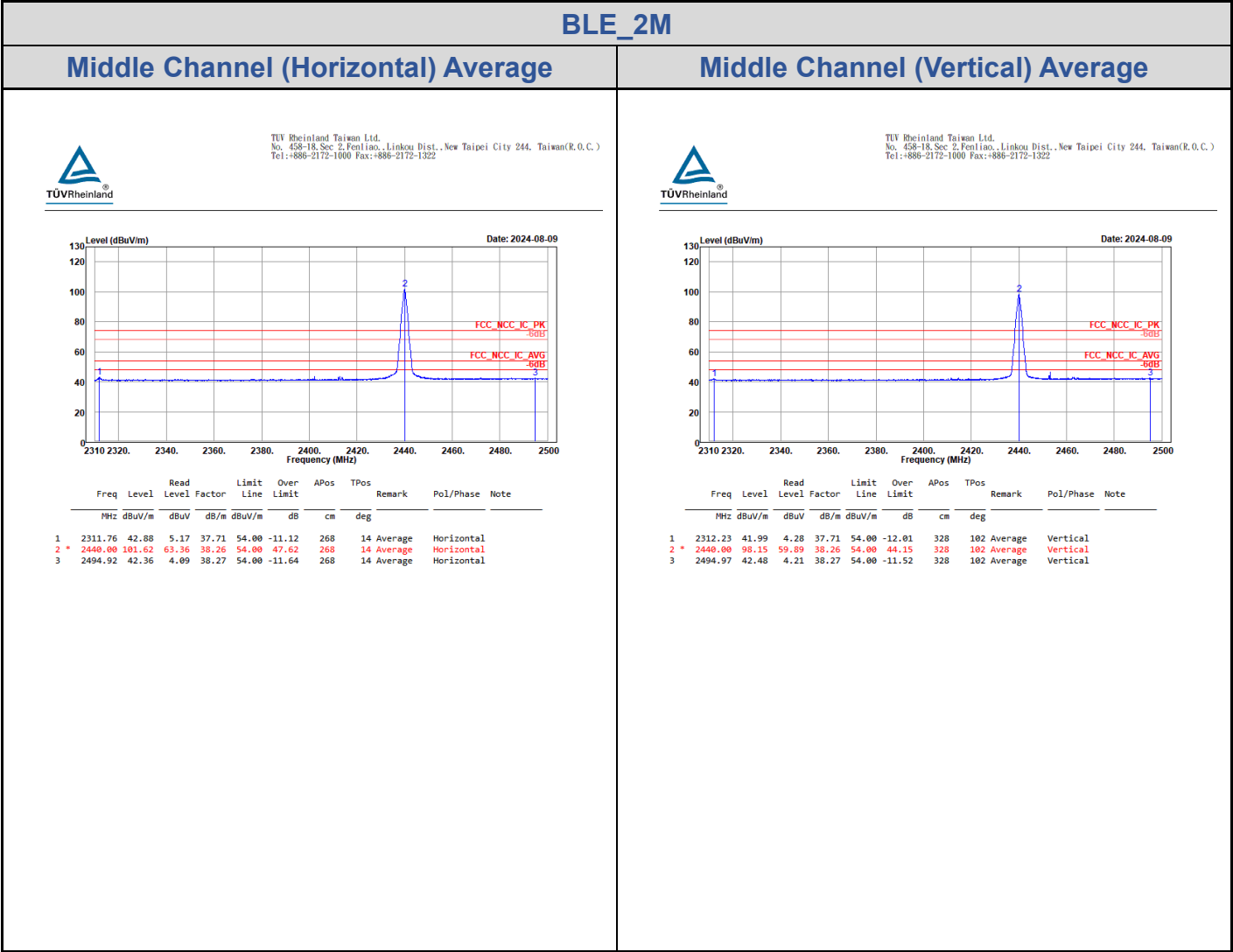
TUV Rheinland Taiwan Ltd.
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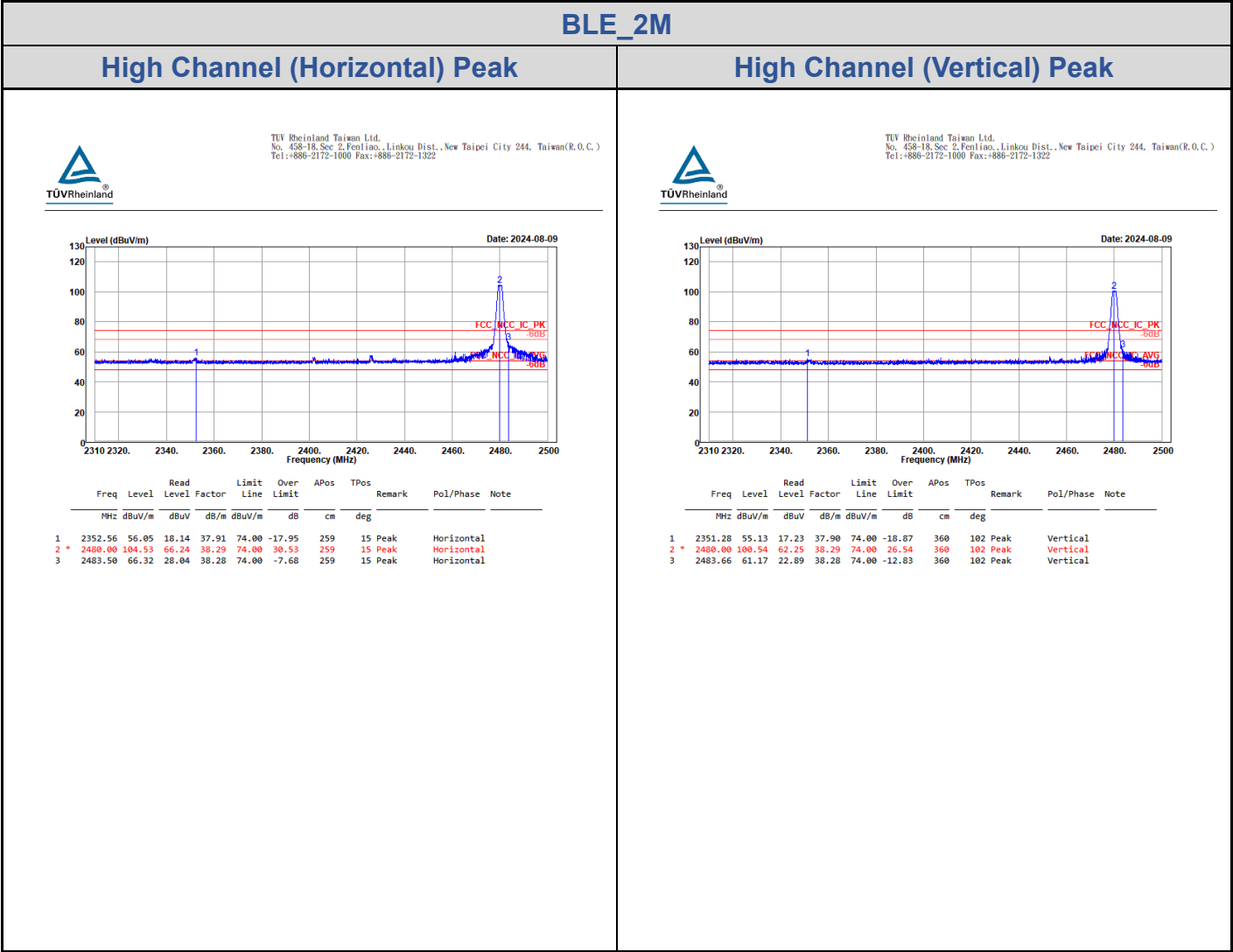


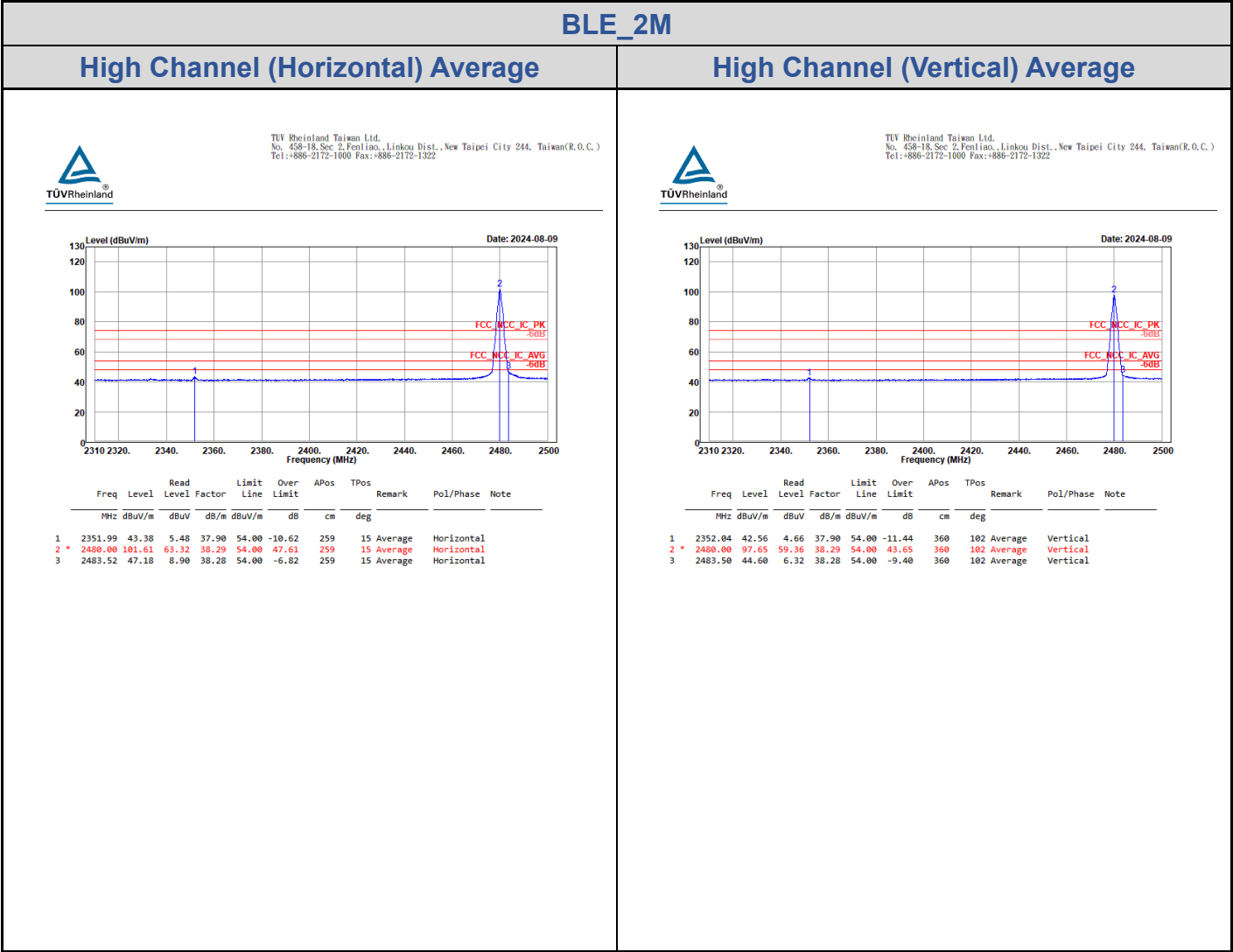
	Freq	Level	Read Line	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.90	56.72	18.70	38.02	74.00	-17.28	343	97	Peak	Vertical	
2 *	2402.00	102.16	64.09	38.07	74.00	28.16	343	97	Peak	Vertical	
3	2483.80	55.63	17.35	38.28	74.00	-18.37	343	97	Peak	Vertical	











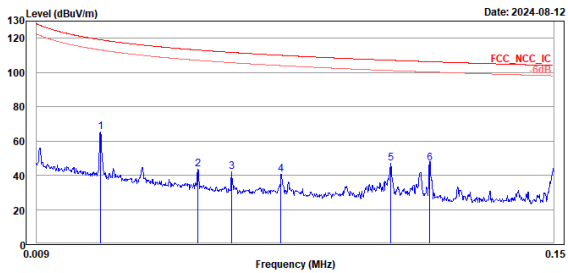
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz



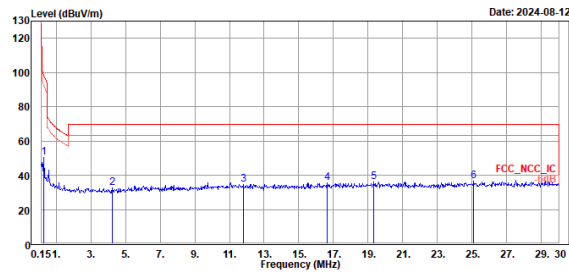
TUV Rheinland Taiwan Ltd.
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	Freq	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dBm	dBuV/m	dB	cm	deg		
1	0.05	65.38	24.87	19.81	119.13	-53.75	100	295 Psk	Open	
2	0.05	43.38	24.87	19.81	113.11	-69.73	100	24 Psk	Open	
3	0.06	42.52	45.52	18.80	111.70	-69.48	100	125 Psk	Open	
4	0.08	44.59	21.88	16.61	110.81	-69.42	100	344 Psk	Open	
5	0.11	46.88	18.81	18.86	107.12	-68.81	100	14 Psk	Open	
6	0.12	46.87	28.24	18.63	106.30	-59.43	100	0 Psk	Open	



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	Freq	Level	Read Level	Limit	Over	APos	Remark	Pol/Phase	Note
	Hz	dBm	Factor	Line	Limit				
	Hz	dBm	dB/m	dBm	dB	cm	deg		
1	0.27	50.65	31.58	19.67	98.99	-48.54	100	115 Peak	Open
2	4.24	32.40	12.84	19.56	69.50	-37.10	100	274 Peak	Open
3	11.79	34.70	13.67	21.63	69.50	-34.80	100	84 Peak	Open
4	16.66	35.45	13.24	22.21	69.50	-34.05	100	339 Peak	Open
5	25.14	36.05	13.22	22.65	69.50	-33.45	100	142 Peak	Open
6	25.10	36.68	13.51	23.19	69.50	-32.82	100	67 Peak	Open

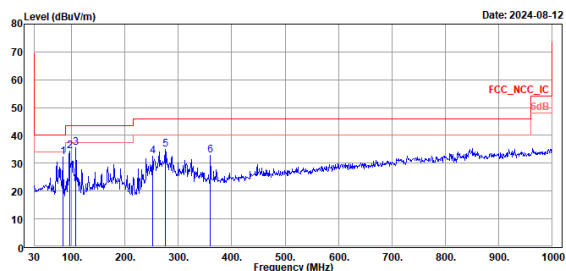
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE 2M

High Channel (Horizontal)



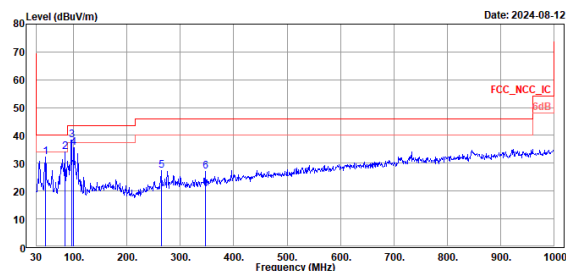
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	Freq	Level	Read Factor	Limit Factor	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	83.35	32.10	43.89	-11.79	40.00	-7.90	100	215	Peak	Horizontal
2	95.90	32.43	44.66	-11.23	43.50	-9.07	200	216	Peak	Horizontal
3	107.60	35.68	46.04	-9.97	43.50	-7.83	100	186	Peak	Horizontal
4	251.16	32.58	39.25	-6.67	46.00	-13.42	400	152	Peak	Horizontal
5	275.43	34.93	40.97	-6.04	46.00	-11.07	100	189	Peak	Horizontal
6	359.80	32.85	39.77	-4.12	46.00	-15.15	200	185	Peak	Horizontal



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



	Freq	Level	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/mV	dBuV	dB/m dBu/mV	dB	cm	deg			
2	46.49	32.30	38.43	-6.13	40.00	-7.70	100	82.36 Peak	Vertical	
3	46.49	34.21	46.00	-11.79	40.00	-48.00	41	41 Peak	Vertical	
3	95.96	38.48	50.04	-11.63	43.50	-5.09	100	28 Peak	Vertical	
4	99.84	35.55	46.63	-11.08	43.50	-7.95	100	68 Peak	Vertical	
5	265.77	27.48	36.06	-6.45	46.00	-18.52	100	48 Peak	Vertical	
6	346.22	25.20	34.01	-8.40	46.00	-18.90	100	48 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

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Level (dBuV/m)

Date: 2024-08-02

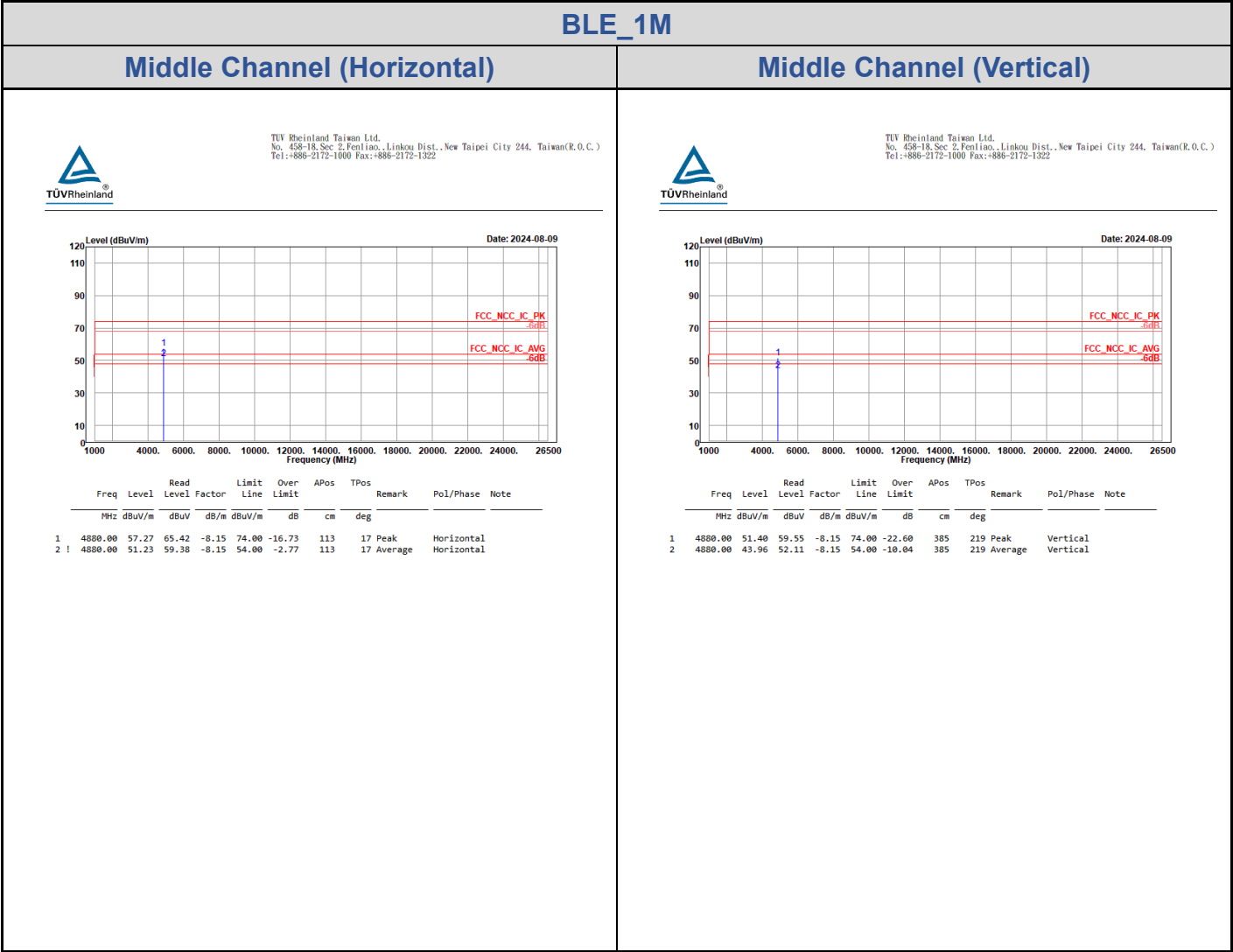
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4804.00	59.74	67.97	-8.23	74.00	-14.26	280	20	Peak	Horizontal	
2	4804.00	52.77	61.00	-8.23	54.00	-1.23	280	20	Average	Horizontal	

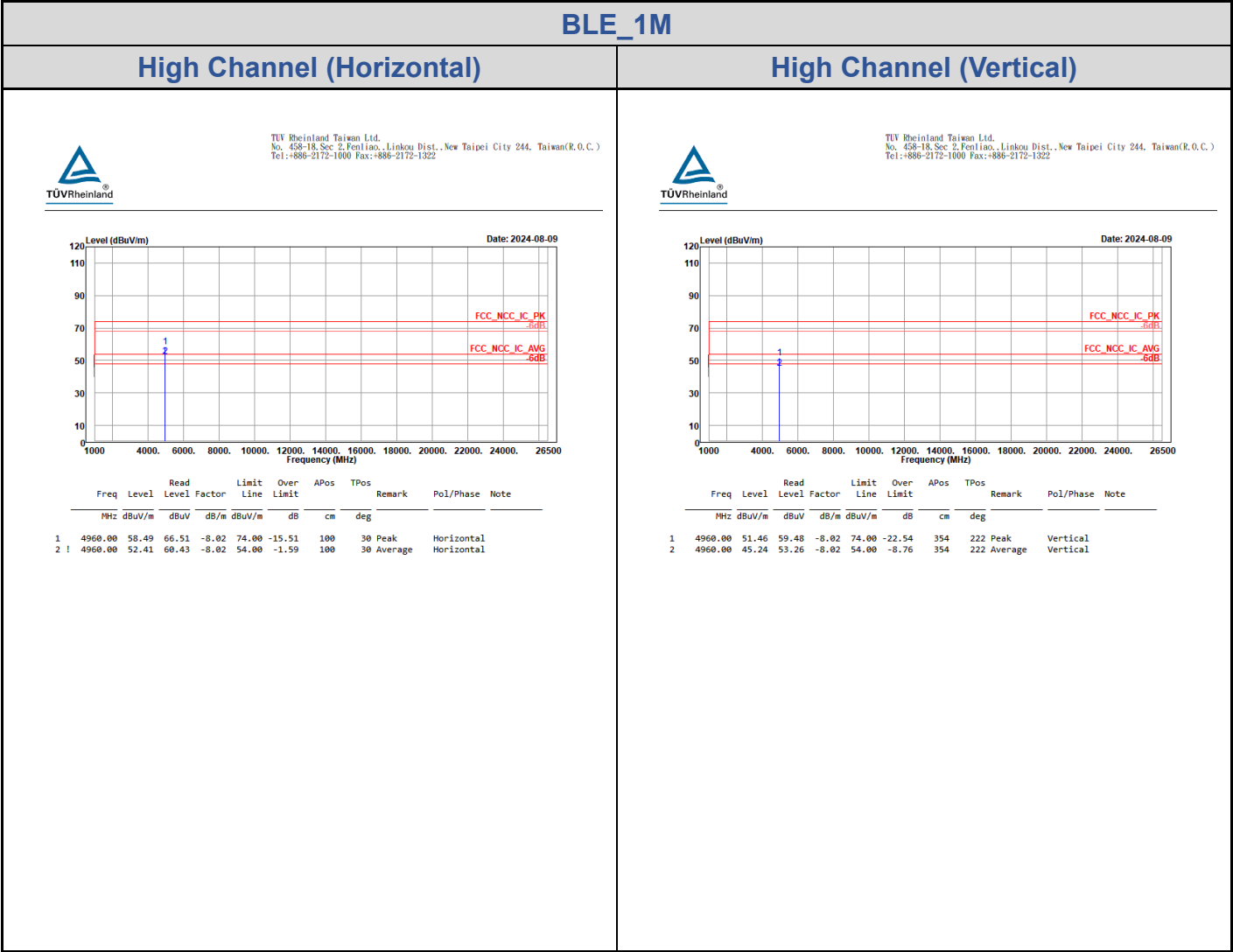
TÜVRheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

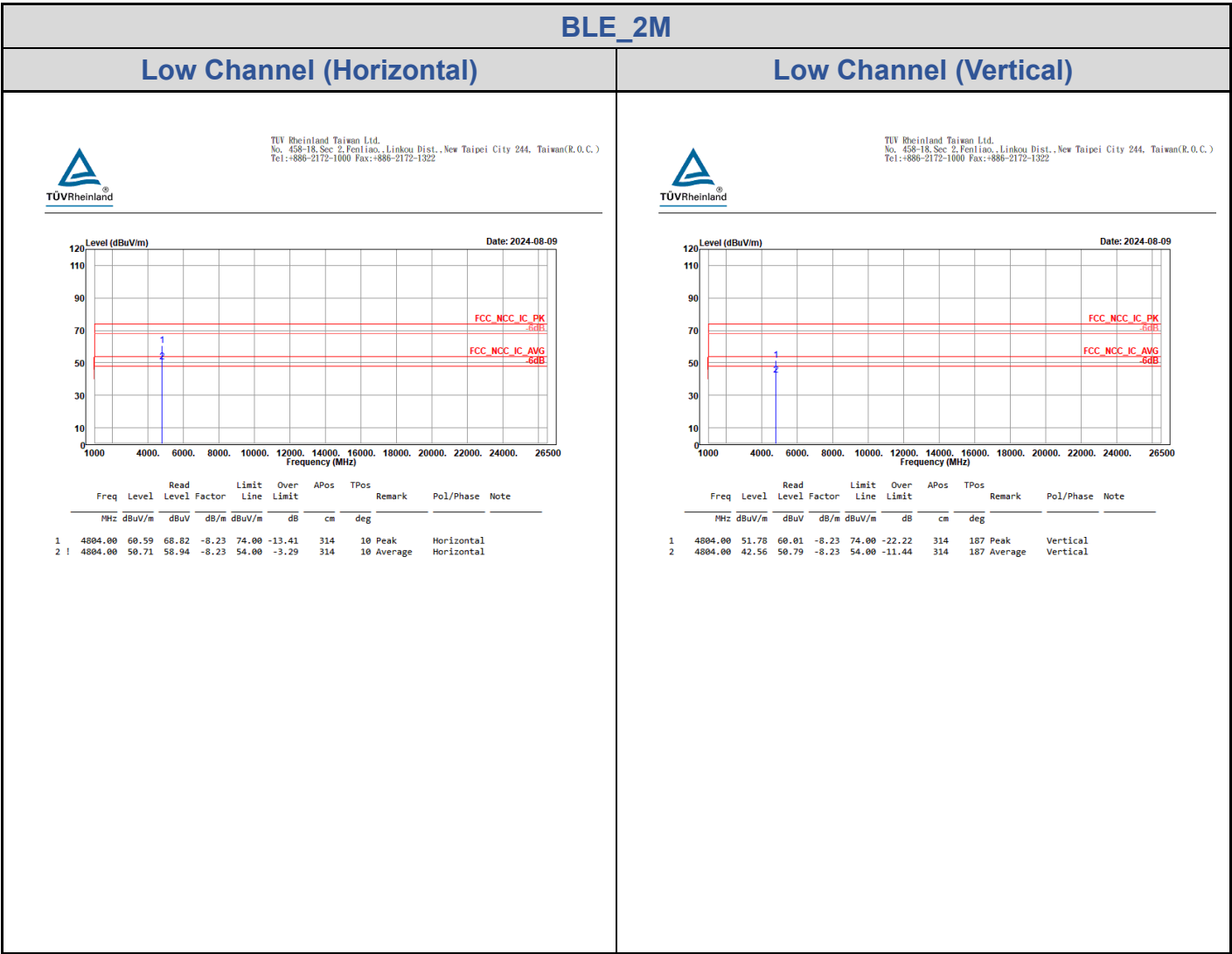
Level (dBuV/m)

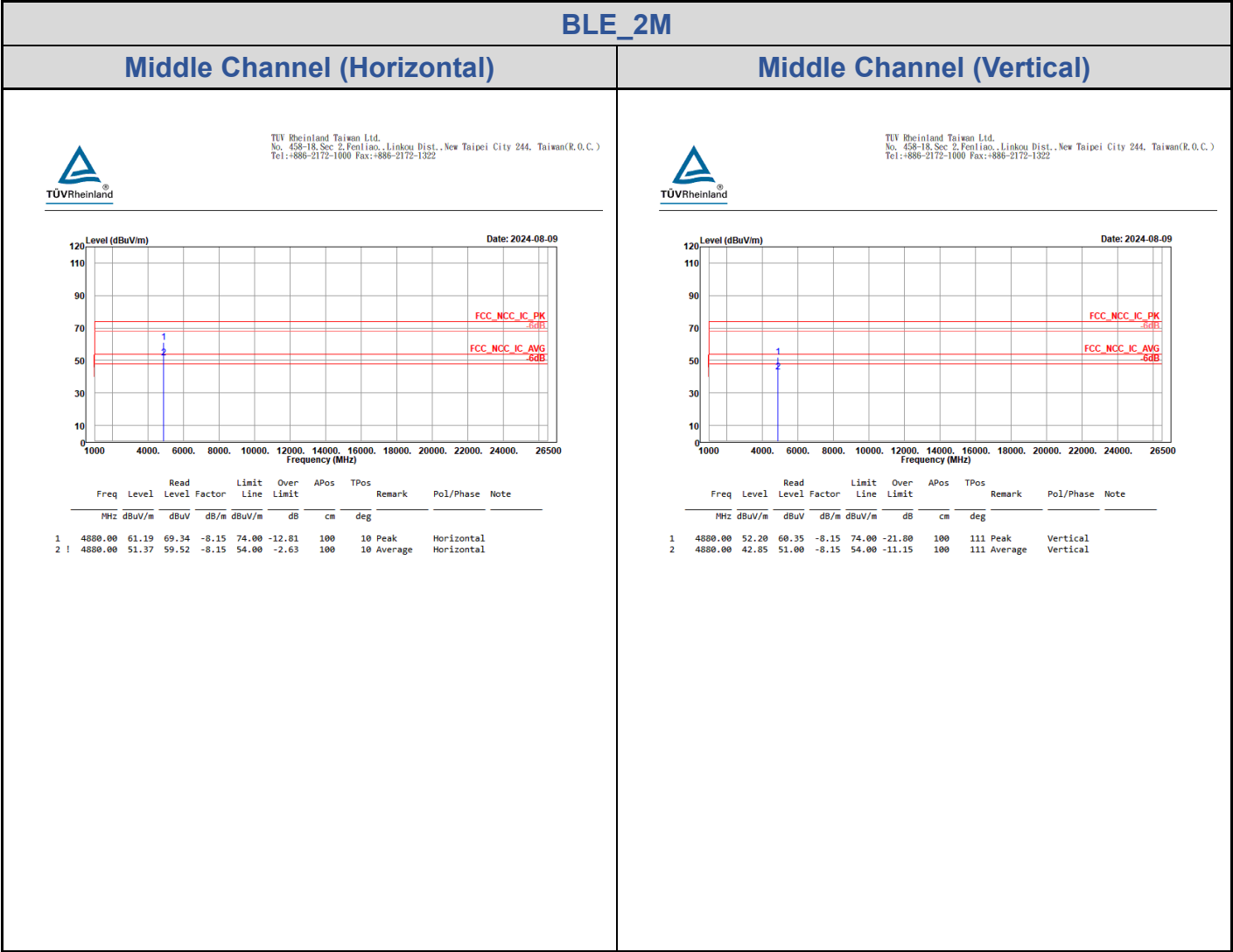
Date: 2024-08-02

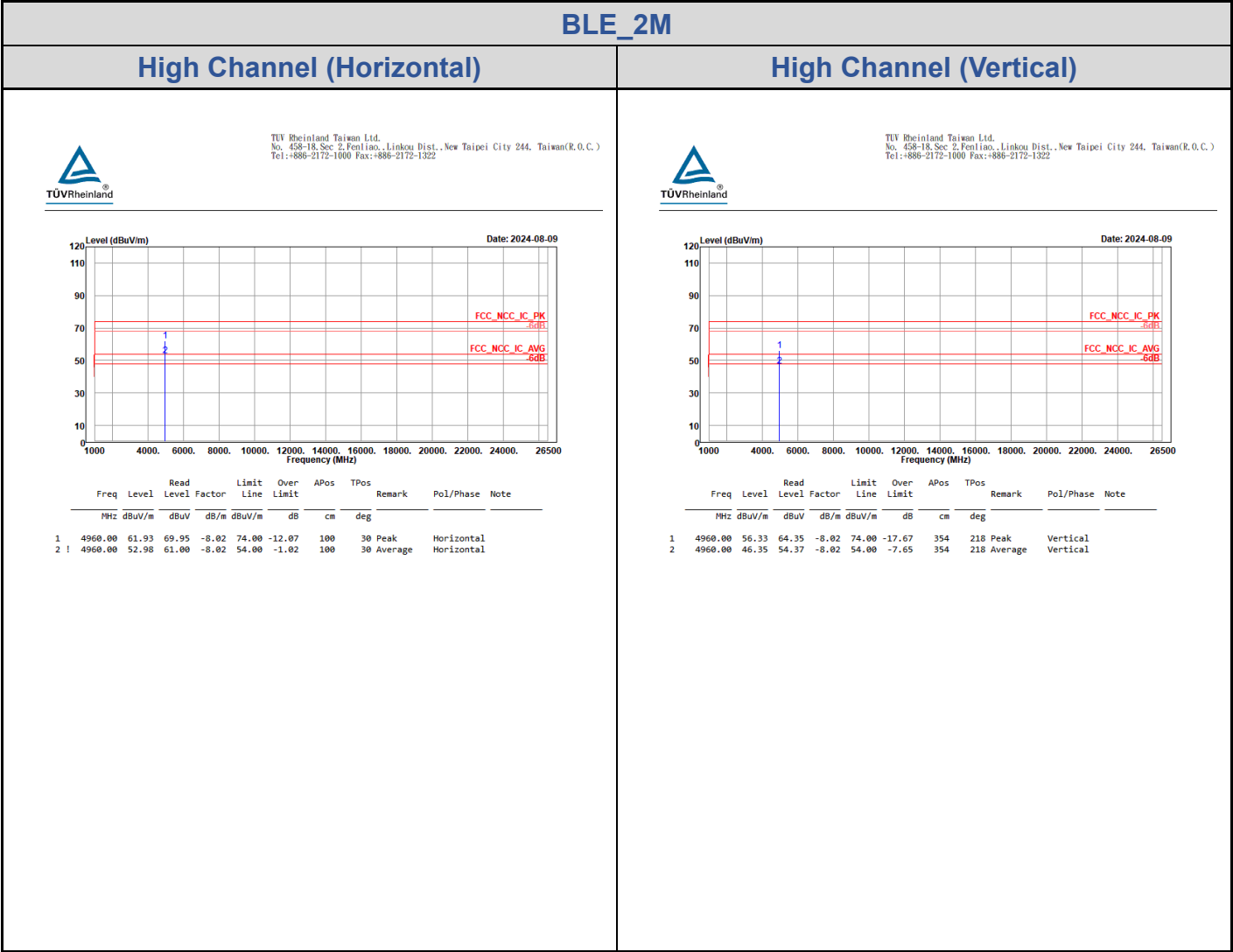
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4804.00	51.87	60.10	-8.23	74.00	-22.13	345	351	Peak	Vertical	
2	4804.00	46.28	54.51	-8.23	54.00	-7.72	345	351	Average	Vertical	











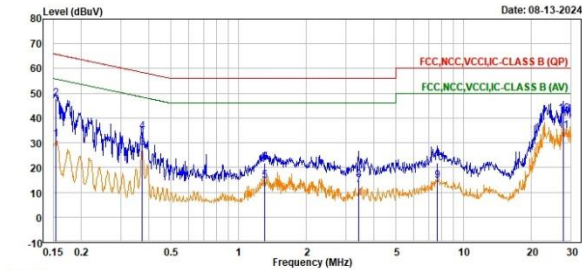
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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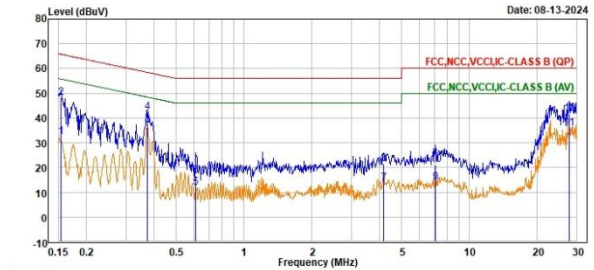


Trace:	Frequency (MHz)									
	Freq		Level		Read Level Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB				
1	0.15	31.37	21.74	9.63	55.79	-24.42	Average		line1	
2	0.15	47.84	38.21	9.63	65.79	-17.95	QP		line1	
3	0.37	28.03	18.40	9.63	58.47	-20.48	QP		line1	
4	0.37	34.66	25.03	9.63	58.47	-23.81	QP		line1	
5	1.30	14.58	4.94	9.64	46.06	-31.42	Average		line1	
6	1.30	21.99	12.35	9.64	56.06	-34.01	QP		line1	
7	3.41	12.92	3.24	9.68	46.06	-33.43	Average		line1	
8	3.41	14.95	5.27	9.68	56.06	-41.05	QP		line1	
9	7.66	14.65	4.91	9.74	58.00	-35.35	Average		line1	
10	7.66	21.75	12.01	9.74	68.00	-38.25	QP		line1	
11	27.84	34.71	24.97	9.74	58.00	-15.58	Average		line1	
12	27.84	41.54	31.80	9.74	60.00	-18.46	QP		line1	

(Neutral)



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Trace: 1	Frequency (MHz)									
	Read Level				Limit		Over Limit		Pol/Phase	Note
	Freq	Level	Read Level	Factor	Limit	Limit	Remark	Remark		
	MHz	dBuV	dBuV	dB	dBuV	dB				
1	0.15	32.43	22.80	9.63	55.79	-23.36	Average		neutral	
2	0.15	48.20	38.57	9.63	65.79	-17.59	Qp		neutral	
3	0.37	37.22	27.59	9.63	48.47	-11.55	Average		neutral	
4	0.37	42.20	32.57	9.63	58.47	-16.27	Qp		neutral	
5	0.61	11.93	2.30	9.63	46.40	-34.47	Average		neutral	
6	0.61	16.57	6.94	9.63	56.00	-39.03	Qp		neutral	
7	4.37	13.64	3.99	9.68	49.35	-35.36	Average		neutral	
8	4.37	21.38	11.69	9.69	56.00	-34.62	Qp		neutral	
9	7.67	13.93	4.18	9.75	50.00	-36.07	Average		neutral	
10	7.67	21.00	11.33	9.75	60.00	-38.92	Qp		neutral	
11	27.84	35.80	25.92	9.88	60.00	-18.44	Average		neutral	
12	27.84	41.67	31.79	9.88	60.00	-18.33	Qp		neutral	