



KES Co., Ltd.

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Test report No.:
KES-RF1-21T0022
Page (141) of (177)

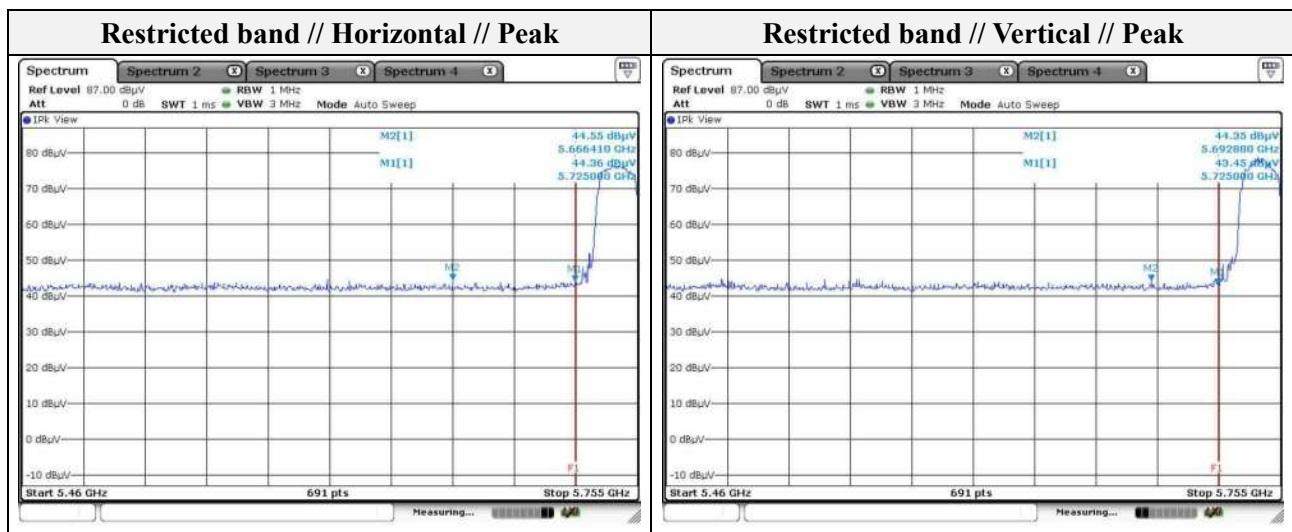
Mode: UNII-3(VHT20)
Distance of measurement: 3 meter
Channel: 149

- Spurious

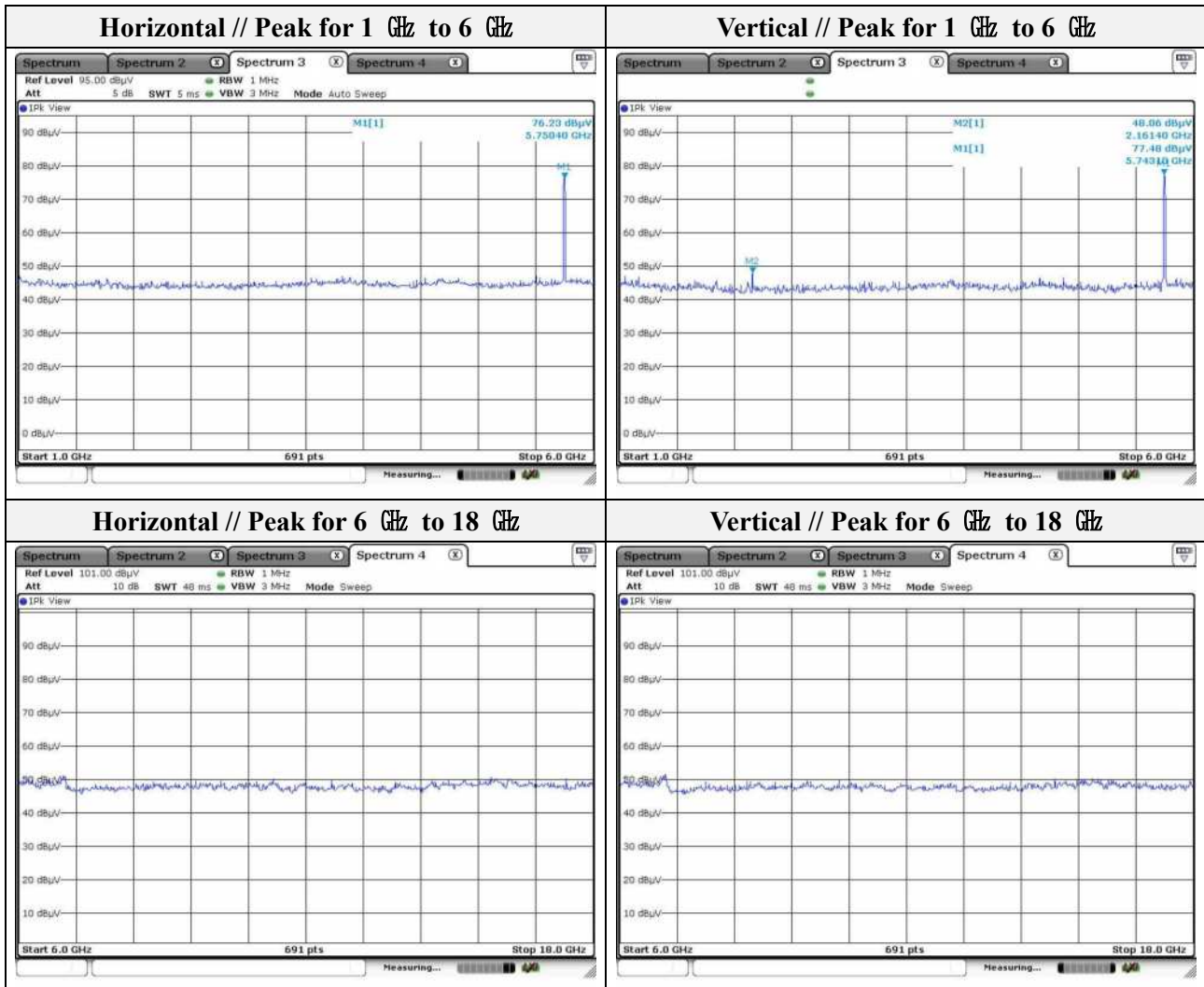
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 161.40	48.06	Peak	V	-0.93	-	47.13	68.20	21.07

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 666.41	44.55	Peak	H	10.41	-	54.96	80.37	25.41
5 725.00	44.36	Peak	H	10.26	-	54.62	122.23	67.61
5 692.88	44.35	Peak	V	10.26	-	54.61	99.96	45.35
5 725.00	43.45	Peak	V	10.26	-	53.71	122.23	68.52



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Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

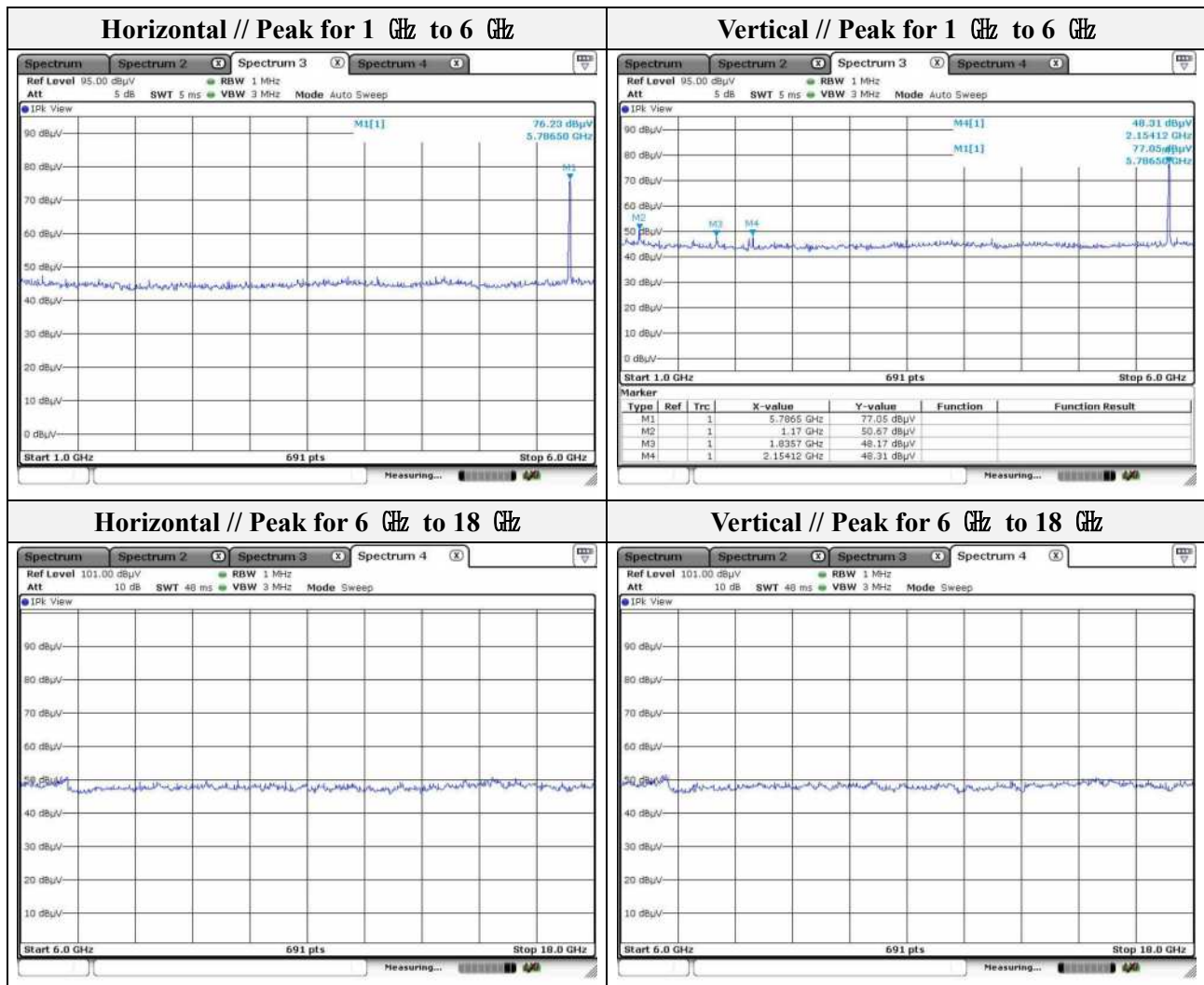
Mode: UNII-3(VHT20)

Distance of measurement: 3 meter

Channel: 157

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 170.00	50.67	Peak	V	-8.24	-	42.43	74.00	31.57
1 835.70	48.17	Peak	V	-3.06	-	45.11	68.20	23.09
2 154.12	48.31	Peak	V	-0.94	-	47.37	68.20	20.83



Note.

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Test report No.:
KES-RF1-21T0022
Page (144) of (177)

Mode: UNII-3(VHT20)

Distance of measurement: 3 meter

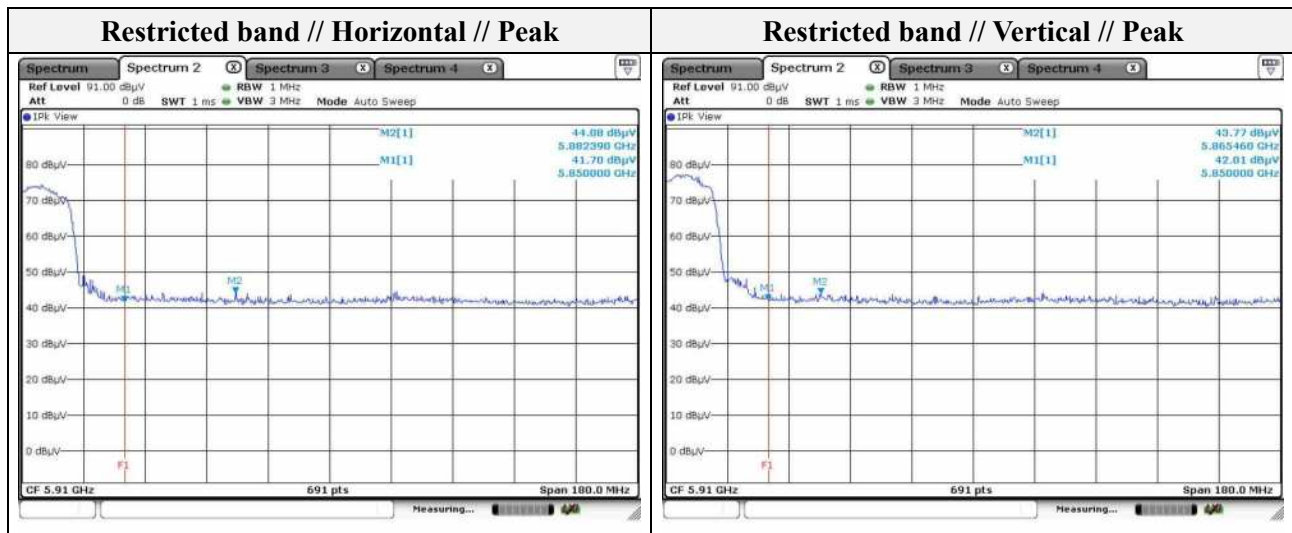
Channel: 165

- Spurious

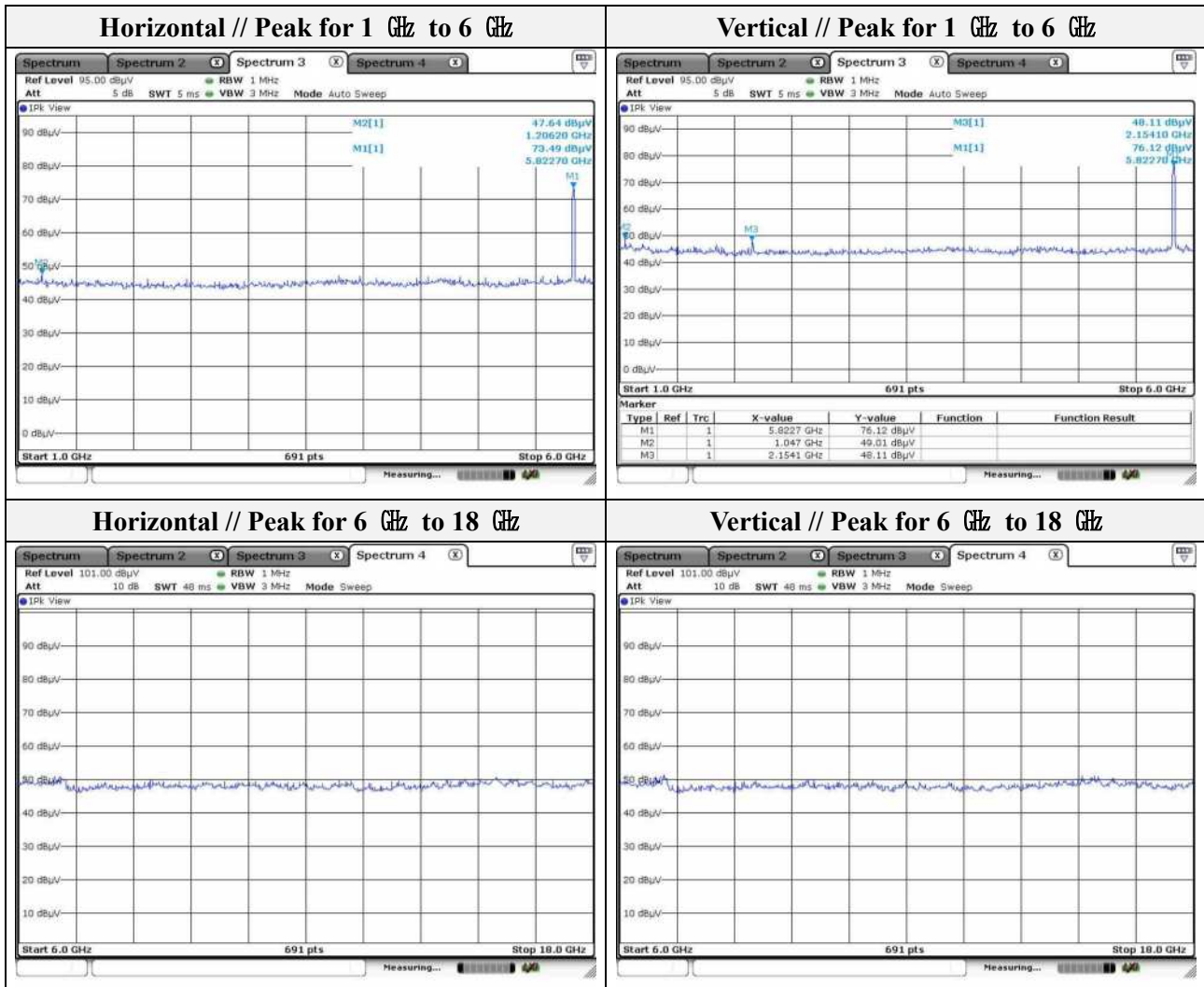
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 206.20	47.64	Peak	H	-8.05	-	39.59	74.00	34.41
1 047.00	49.01	Peak	V	-8.86	-	40.15	74.00	33.85
2 154.10	48.11	Peak	V	-0.94	-	47.17	68.20	21.03

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 850.00	41.70	Peak	H	10.55	-	52.25	122.23	69.98
5 882.39	44.08	Peak	H	10.47	-	54.55	84.00	29.45
5 850.00	42.01	Peak	V	10.55	-	52.56	122.23	69.67
5 865.46	43.77	Peak	V	10.51	-	54.28	90.26	35.98



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Page (146) of (177)

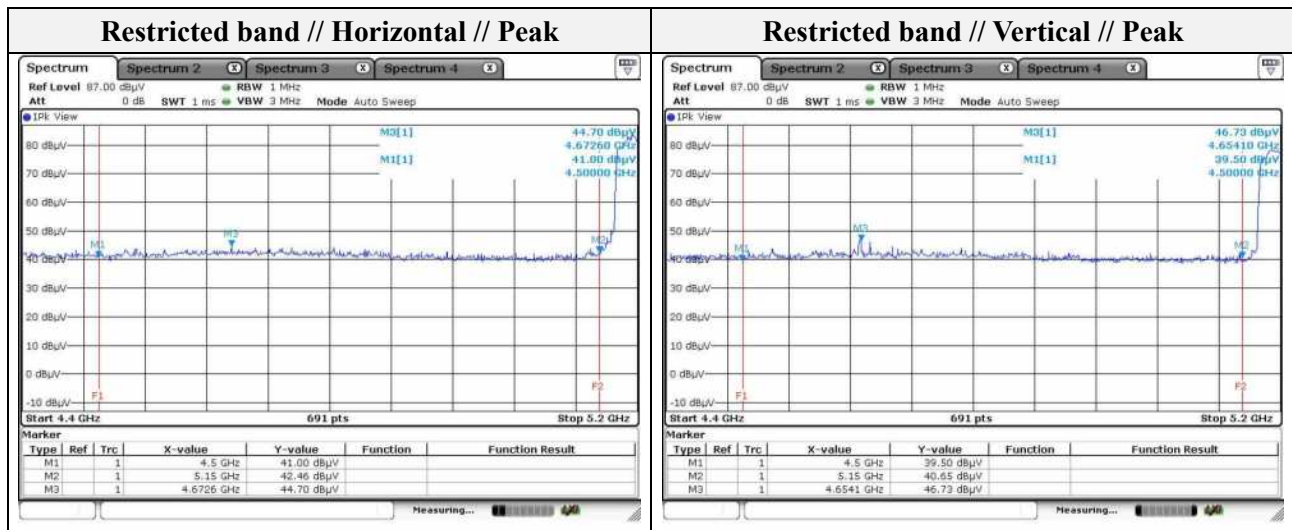
Mode: UNII-1(VHT40)
Distance of measurement: 3 meter
Channel: 38

- Spurious

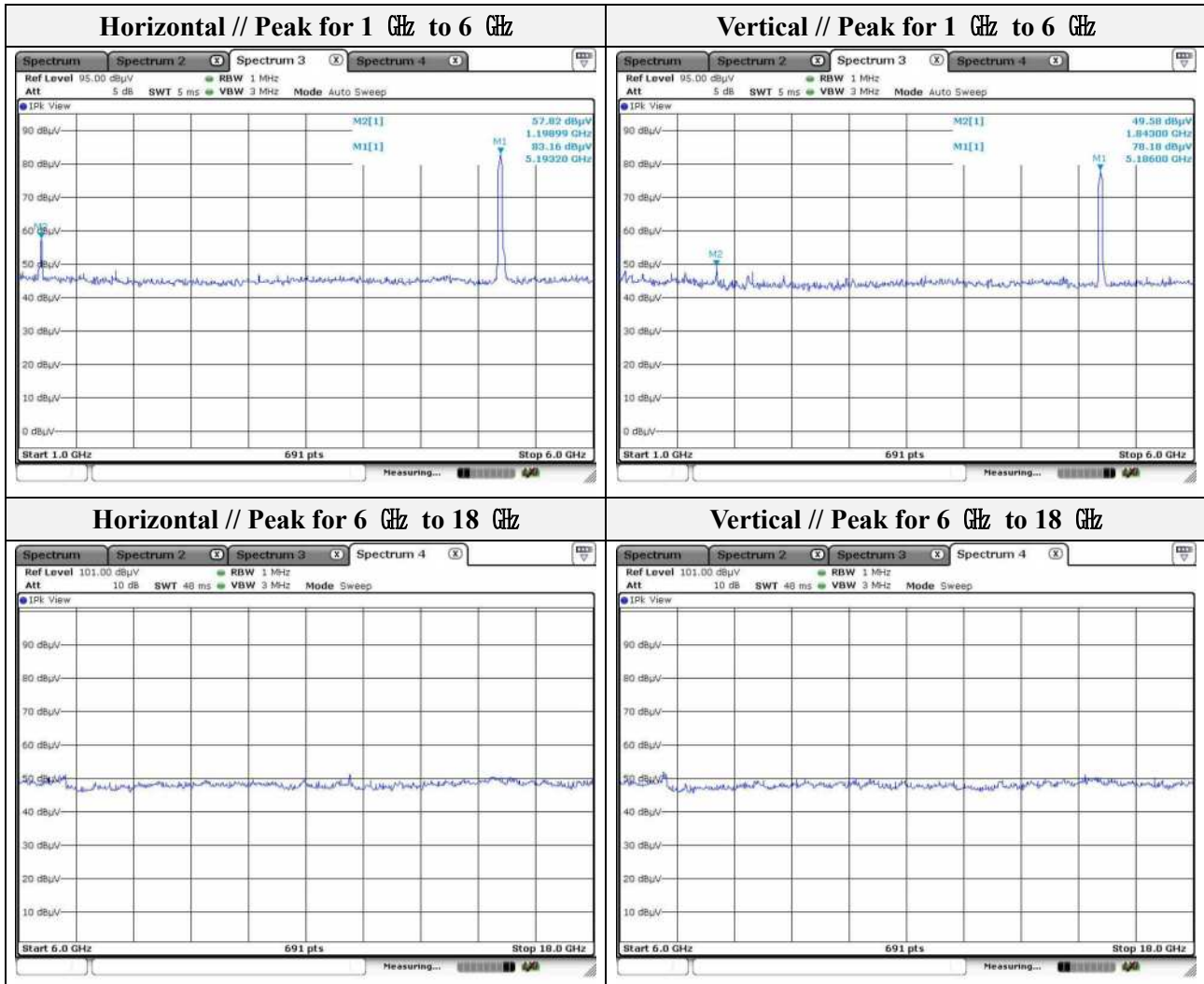
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 198.99	57.82	Peak	H	-8.09	-	49.73	74.00	24.27
1 843.00	49.58	Peak	V	-2.98	-	46.60	68.20	21.60

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4 672.60	44.70	Peak	H	6.13	-	50.83	74.00	23.17
4 654.10	46.73	Peak	V	5.98	-	52.71	74.00	21.29



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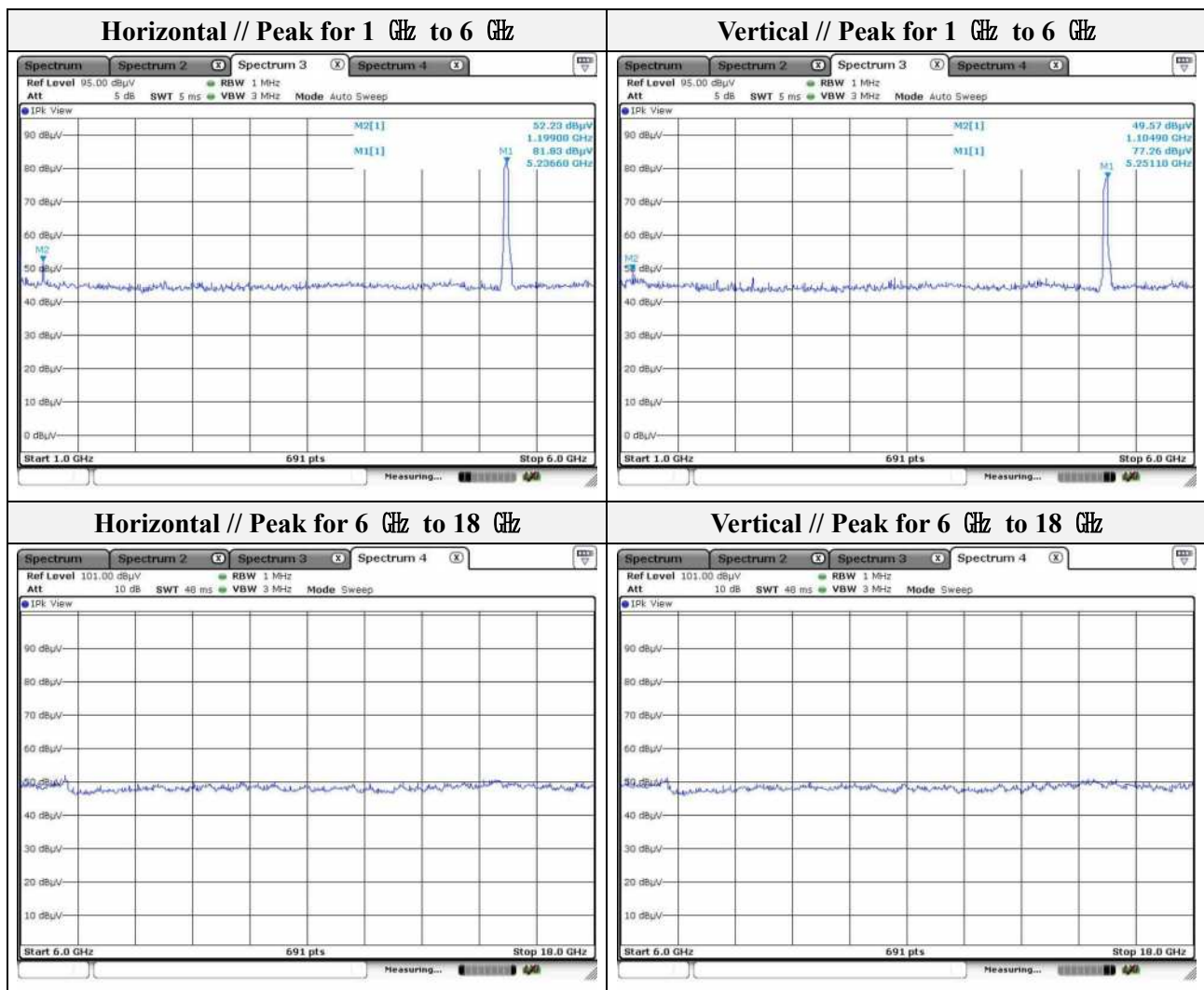
Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

Mode: UNII-1(VHT40)
Distance of measurement: 3 meter
Channel: 46

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	52.23	Peak	H	-8.09	-	44.14	74.00	29.86
1 104.90	49.57	Peak	V	-8.57	-	41.00	74.00	33.00



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

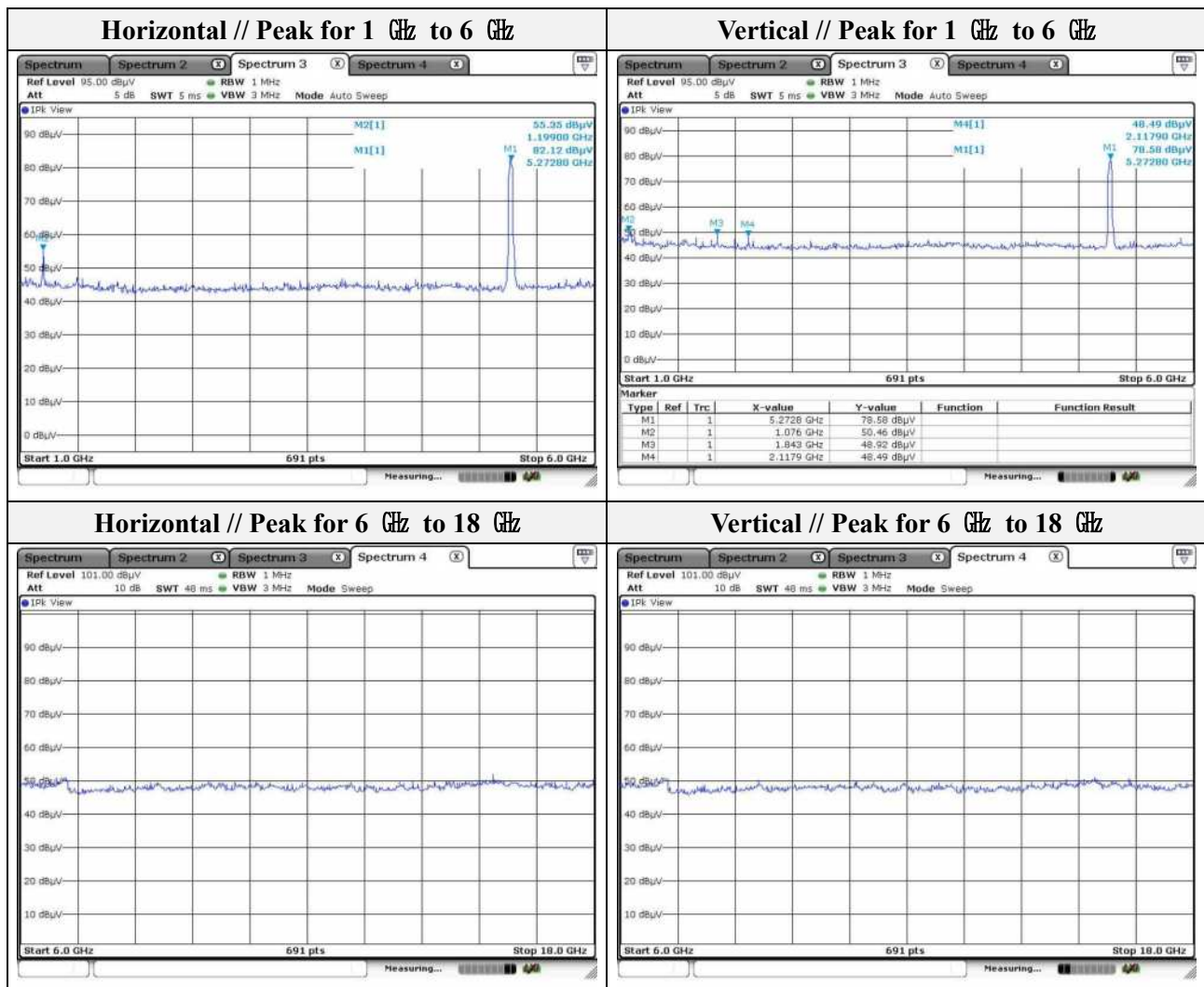
Mode: UNII-2A(VHT40)

Distance of measurement: 3 meter

Channel: 54

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	55.35	Peak	H	-8.09	-	47.26	74.00	26.74
1 076.00	50.46	Peak	V	-8.71	-	41.75	74.00	32.25
1 843.00	48.92	Peak	V	-2.98	-	45.94	68.20	22.26
2 117.90	48.49	Peak	V	-1.01	-	47.48	68.20	20.72



Note.

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Mode: UNII-2A(VHT40)

Distance of measurement: 3 meter

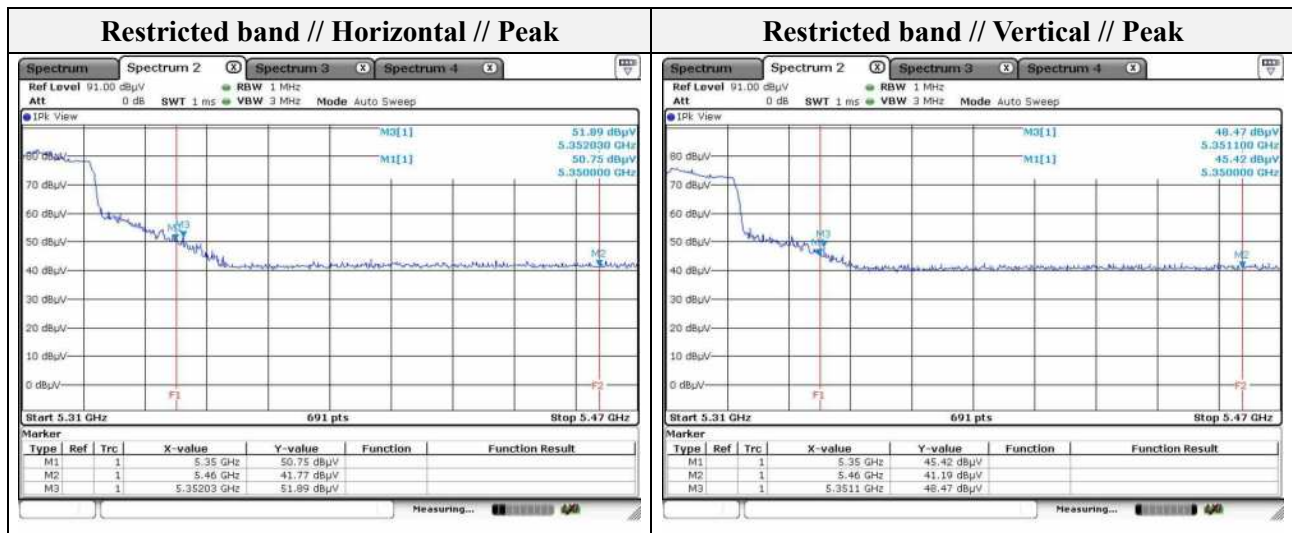
Channel: 62

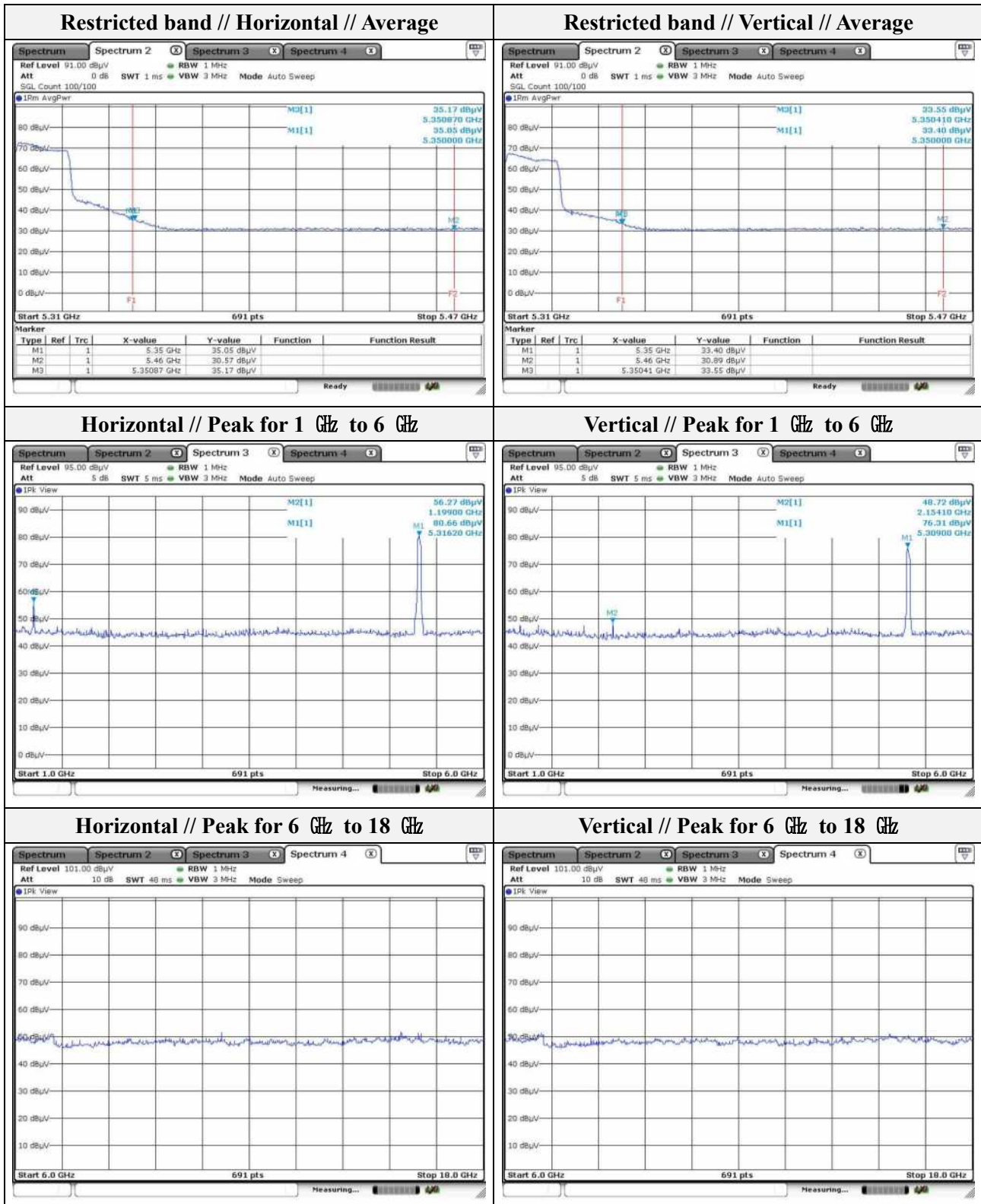
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	56.27	Peak	H	-8.09	-	48.18	74.00	25.82
2 154.10	48.72	Peak	V	-0.94	-	47.78	68.20	20.42

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 352.03	51.89	Peak	H	8.62	-	60.51	74.00	13.49
5 351.10	48.47	Peak	V	8.62	-	57.09	74.00	16.91
5 350.87	35.17	Average	H	8.62	0.57	44.36	54.00	9.64
5 350.41	33.55	Average	V	8.62	0.57	42.74	54.00	11.26





Note.

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Mode: UNII-2C(VHT40)

Distance of measurement: 3 meter

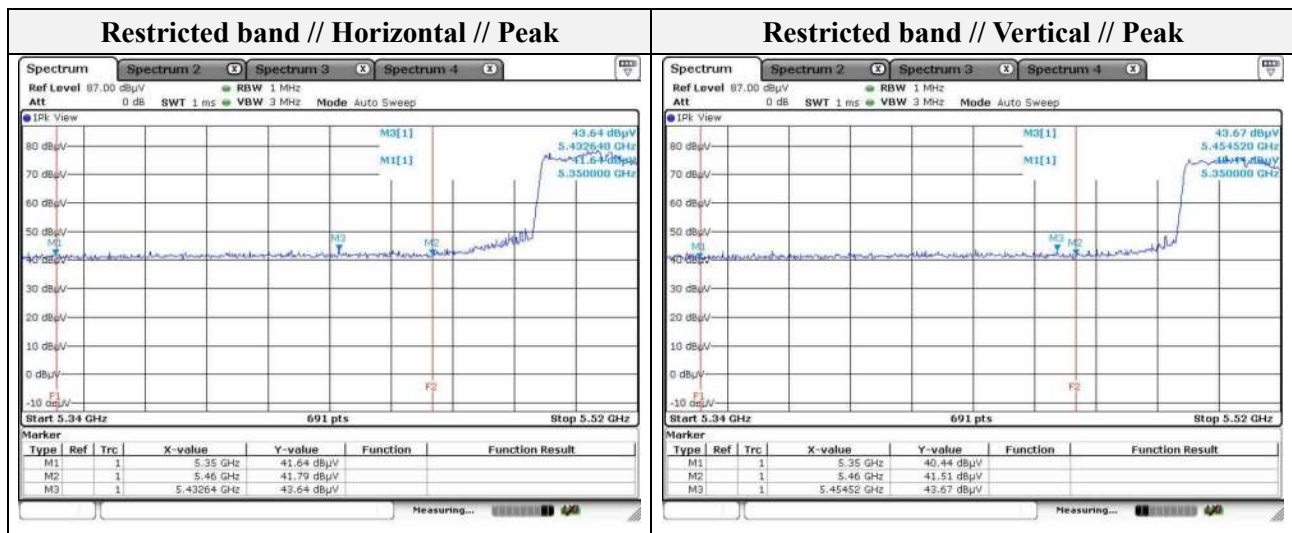
Channel: 102

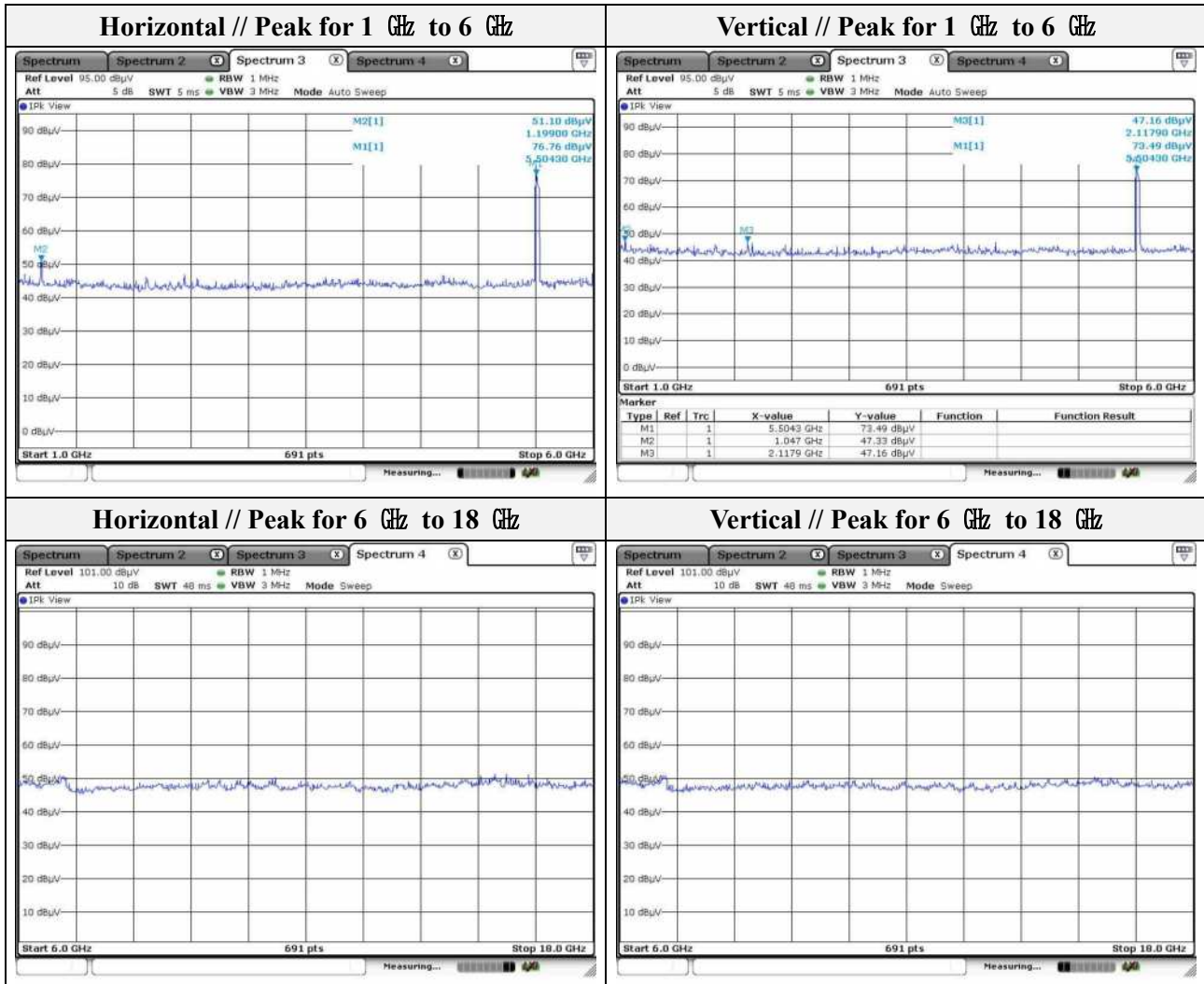
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	51.10	Peak	H	-8.09	-	43.01	74.00	30.99
1 047.00	47.33	Peak	V	-8.86	-	38.47	74.00	35.53
2 117.90	47.16	Peak	V	-1.01	-	46.15	68.20	22.05

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 432.64	43.64	Peak	H	8.56	-	52.20	74.00	21.80
5 454.52	43.67	Peak	V	8.55	-	52.22	74.00	21.78





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

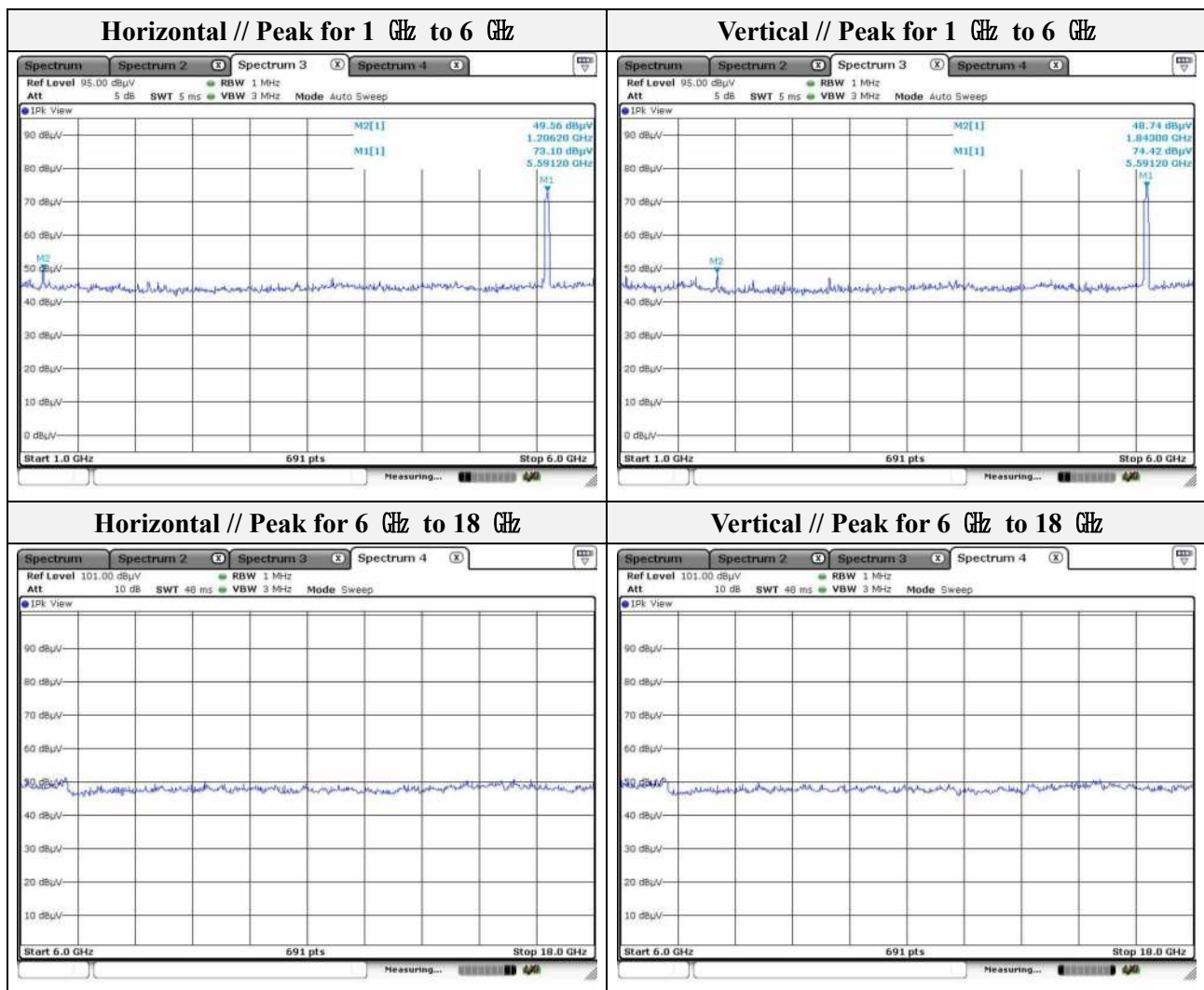
Mode: UNII-2C(VHT40)

Distance of measurement: 3 meter

Channel: 118

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 206.20	49.56	Peak	H	-8.05	-	41.51	74.00	32.49
1 843.00	48.74	Peak	V	-2.98	-	45.76	68.20	22.44



Note.

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Test report No.:

KES-RF1-21T0022

Page (155) of (177)

Mode: UNII-2C(VHT40)Distance of measurement: 3 meterChannel: 134**- Spurious**

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 662.10	50.46	Peak	V	-4.85	-	45.61	74.00	28.39

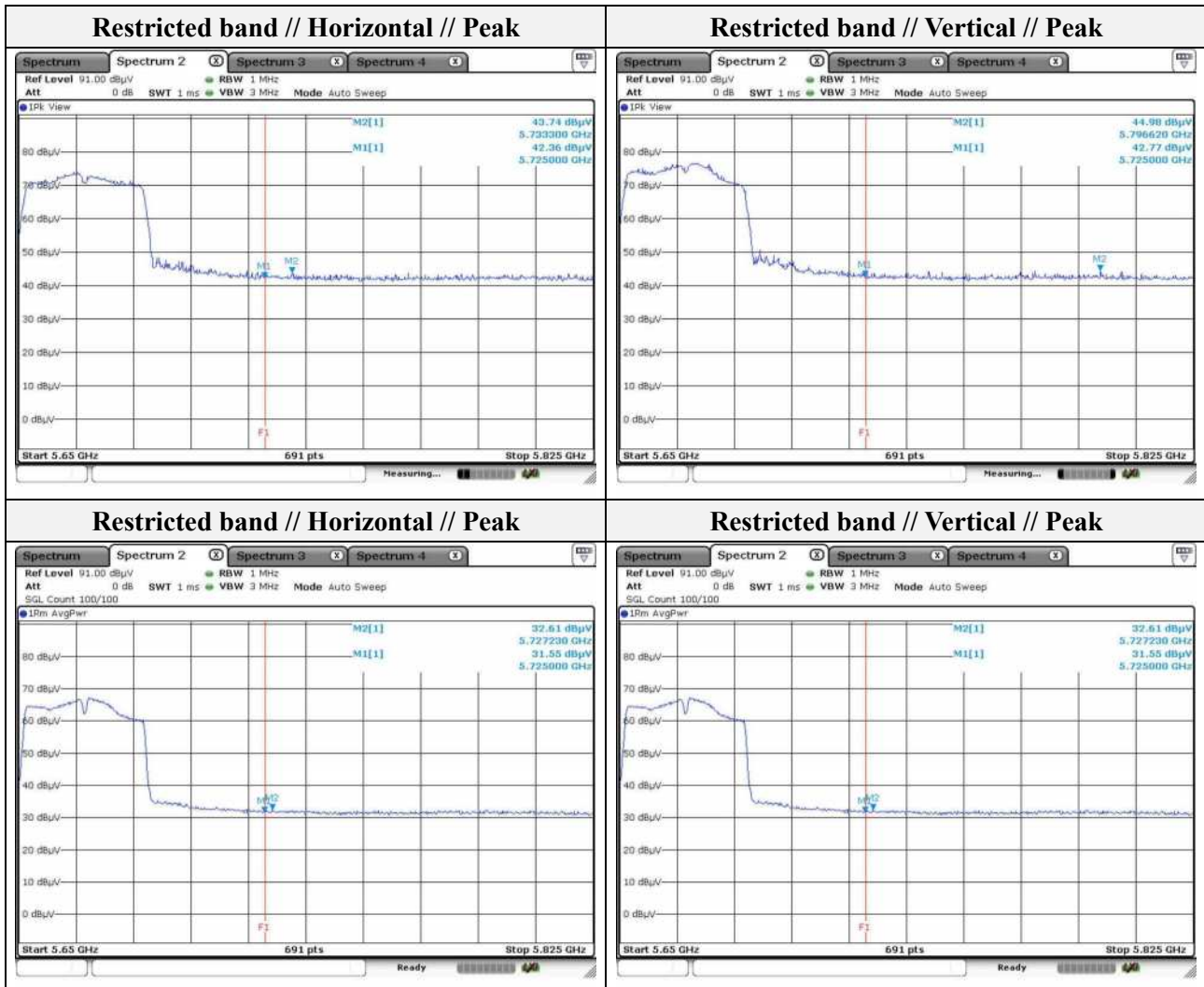
- Band edge

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 733.30	43.74	Peak	H	9.74	-	53.48	68.20	14.72
5 796.62	44.98	Peak	V	10.05	-	55.03	68.20	13.17
5 734.82	32.23	Average	H	9.74	0.72	42.69	58.20	15.31
5 727.23	32.61	Average	V	9.71	0.72	43.04	58.20	14.96

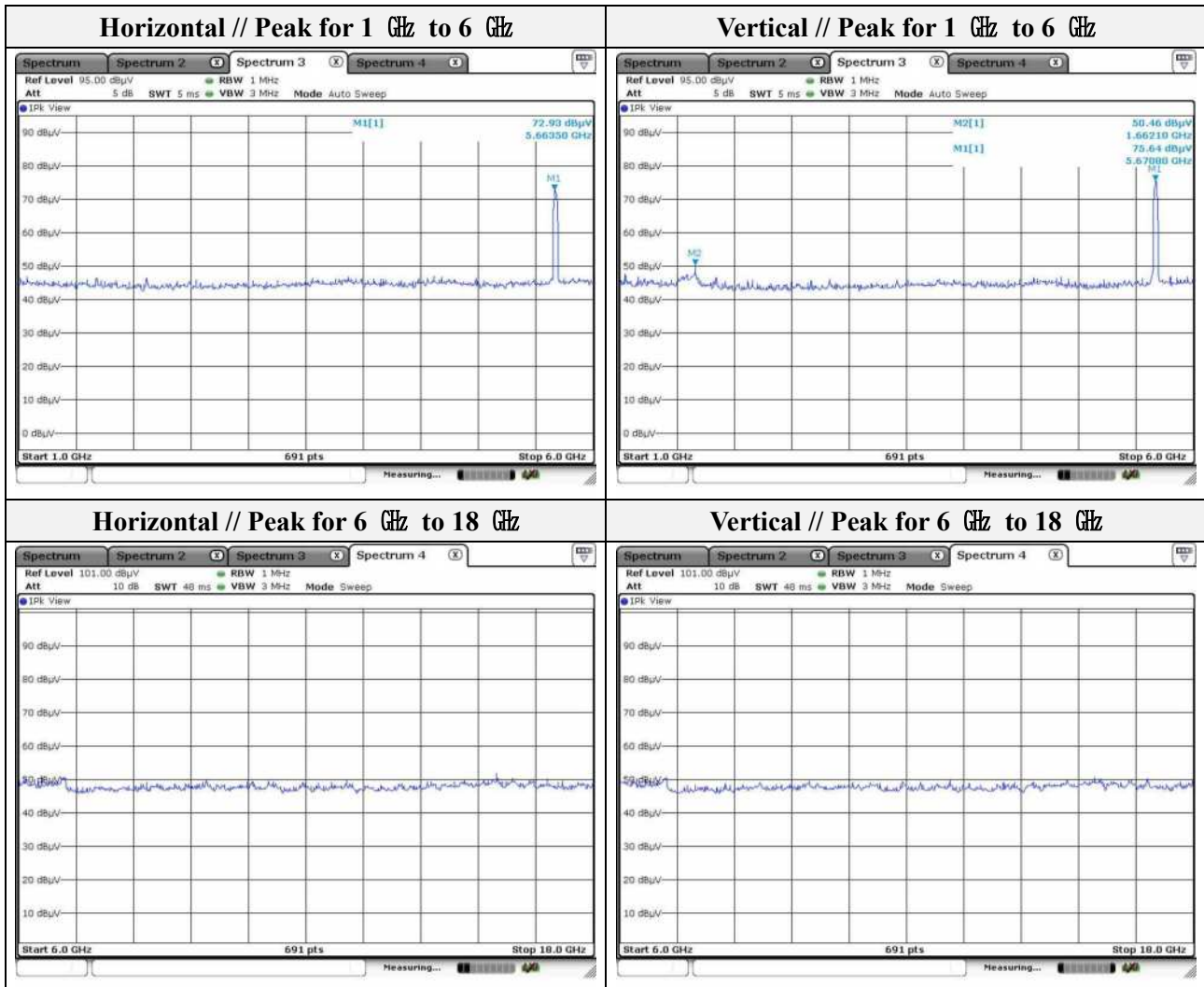
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Test report No.:
KES-RF1-21T0022
Page (158) of (177)

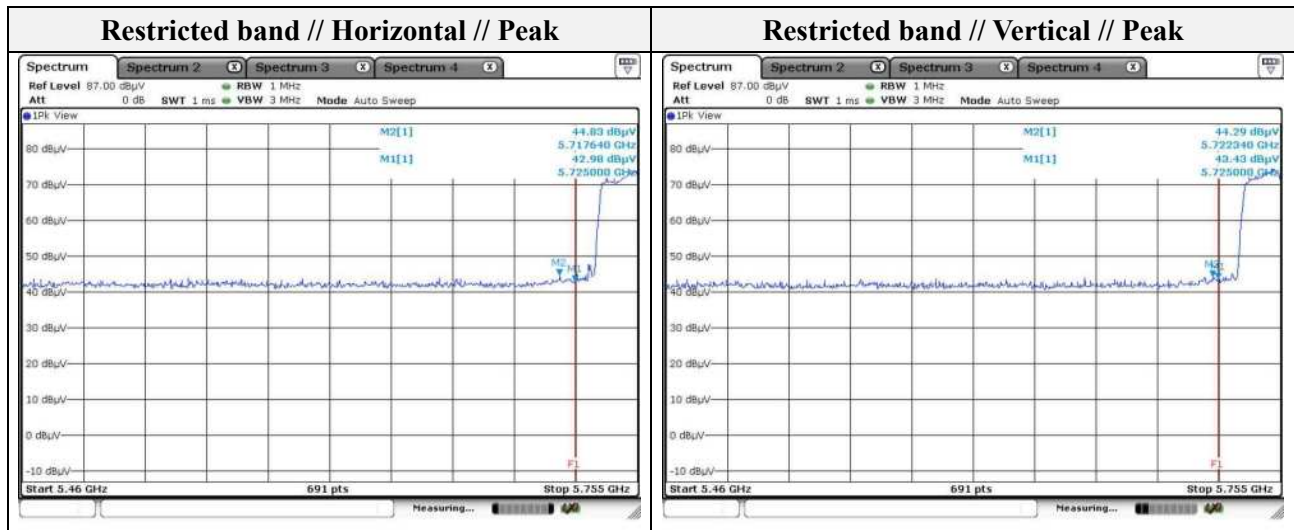
Mode: UNII-3(VHT40)
Distance of measurement: 3 meter
Channel: 151

- Spurious

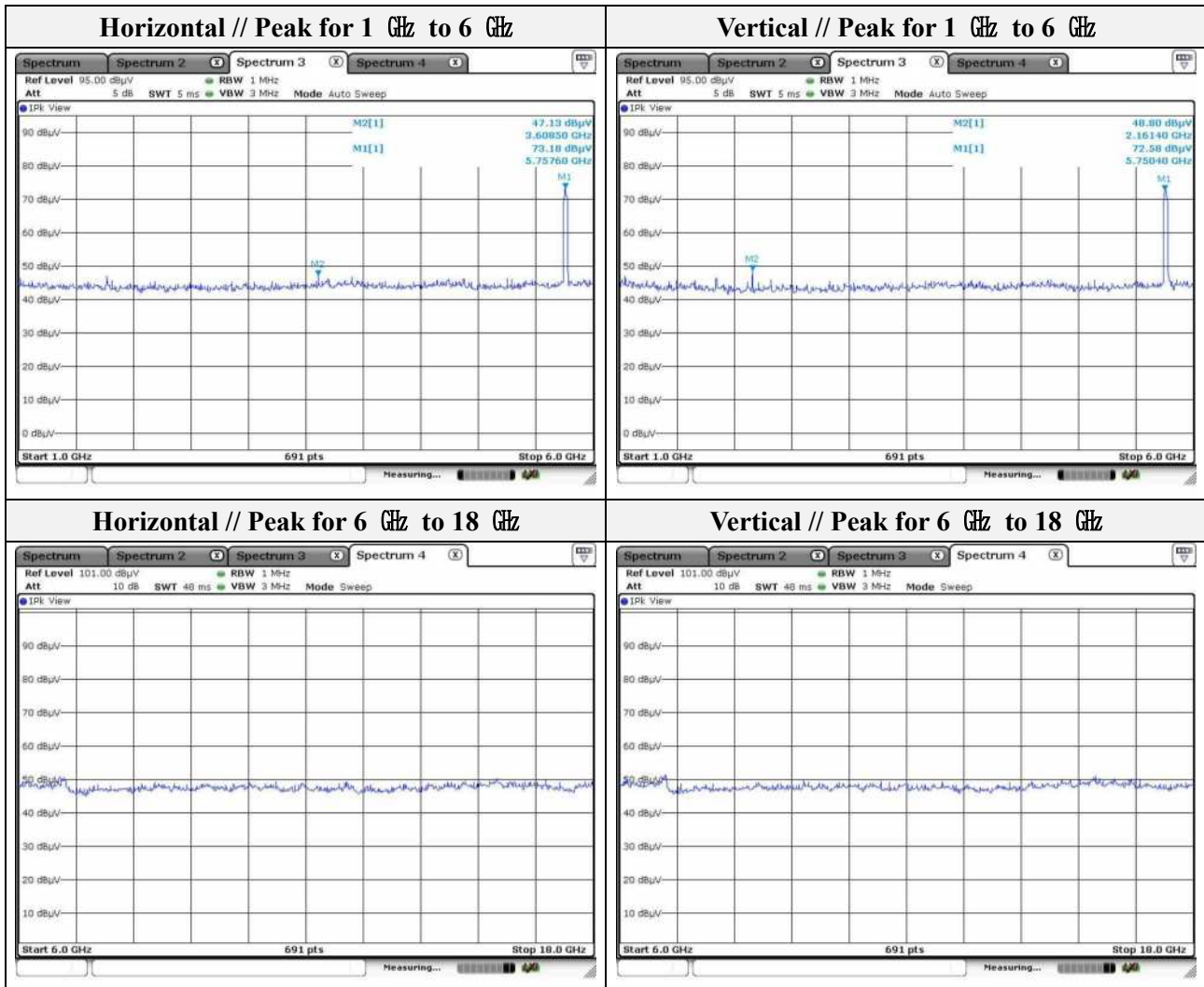
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
3 608.50	47.13	Peak	H	1.76	-	48.89	74.00	25.11
2 161.40	48.80	Peak	V	-0.93	-	47.87	68.20	20.33

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 717.64	44.83	Peak	H	10.25	-	55.08	110.17	55.09
5 725.00	42.98	Peak	H	10.26	-	53.24	122.23	68.99
5 722.34	44.29	Peak	V	10.26	-	54.55	116.17	61.62
5 725.00	43.43	Peak	V	10.26	-	53.69	122.23	68.54



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Note.

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Mode: UNII-3(VHT40)

Distance of measurement: 3 meter

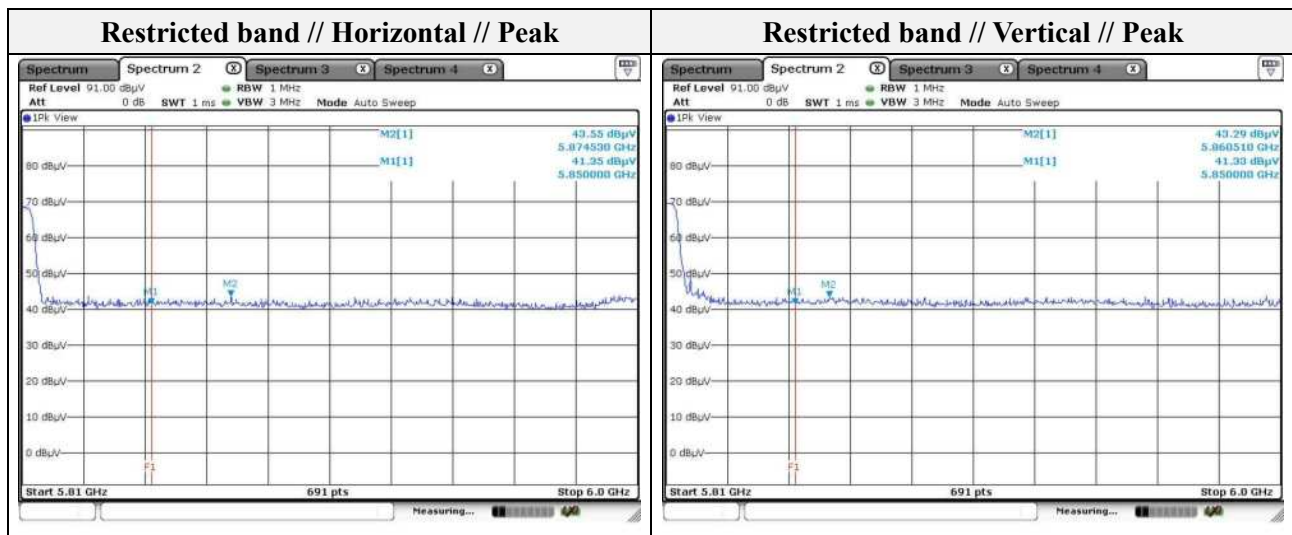
Channel: 159

- **Spurious**

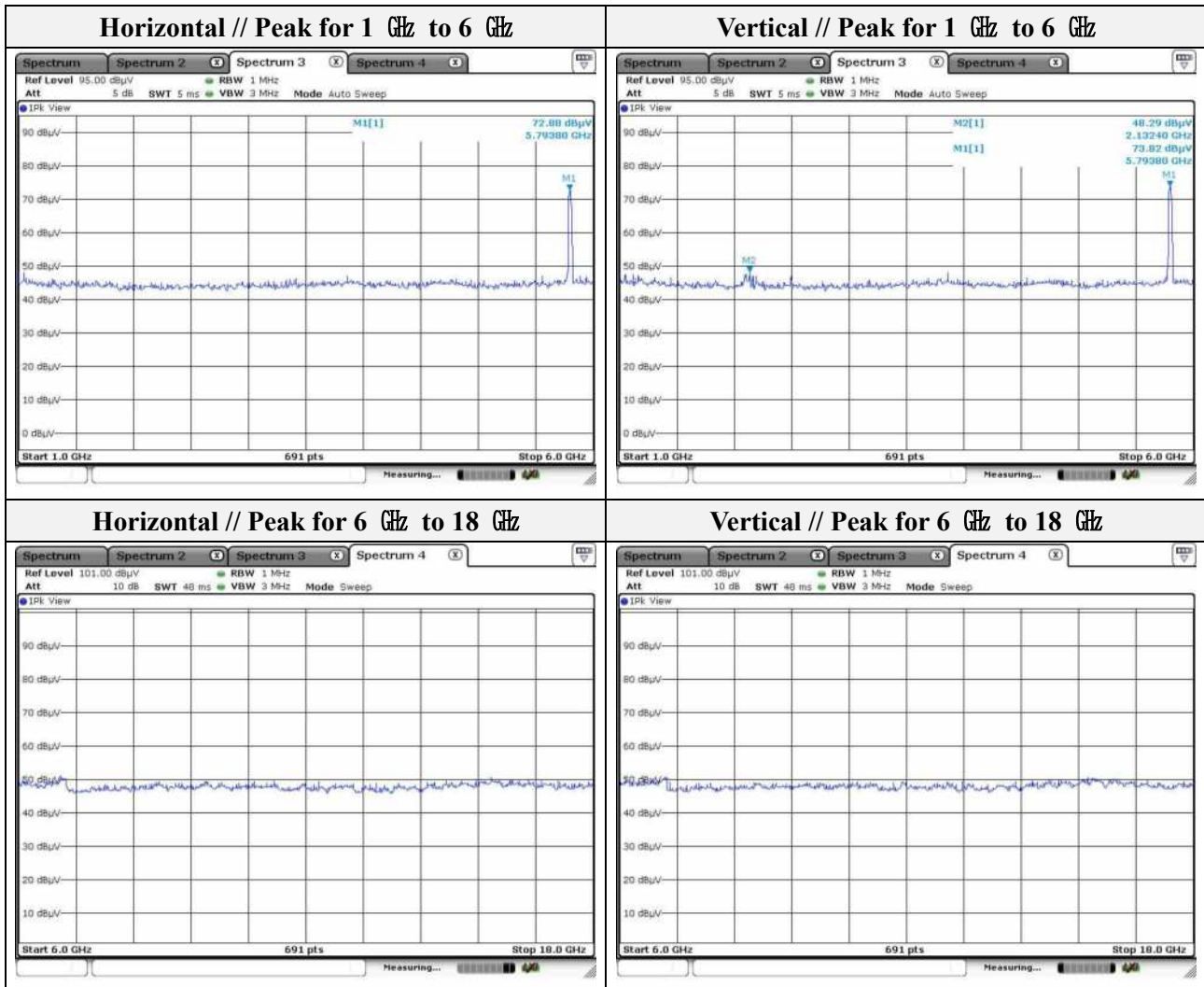
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 132.40	48.29	Peak	V	-0.98	-	47.31	68.20	20.89

- **Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 850.00	41.35	Peak	H	10.55	-	51.90	122.23	70.33
5 874.53	43.55	Peak	H	10.50	-	54.05	86.90	32.85
5 850.00	41.33	Peak	V	10.55	-	51.88	122.23	70.35
5 860.51	43.29	Peak	V	10.52	-	53.81	92.09	38.28



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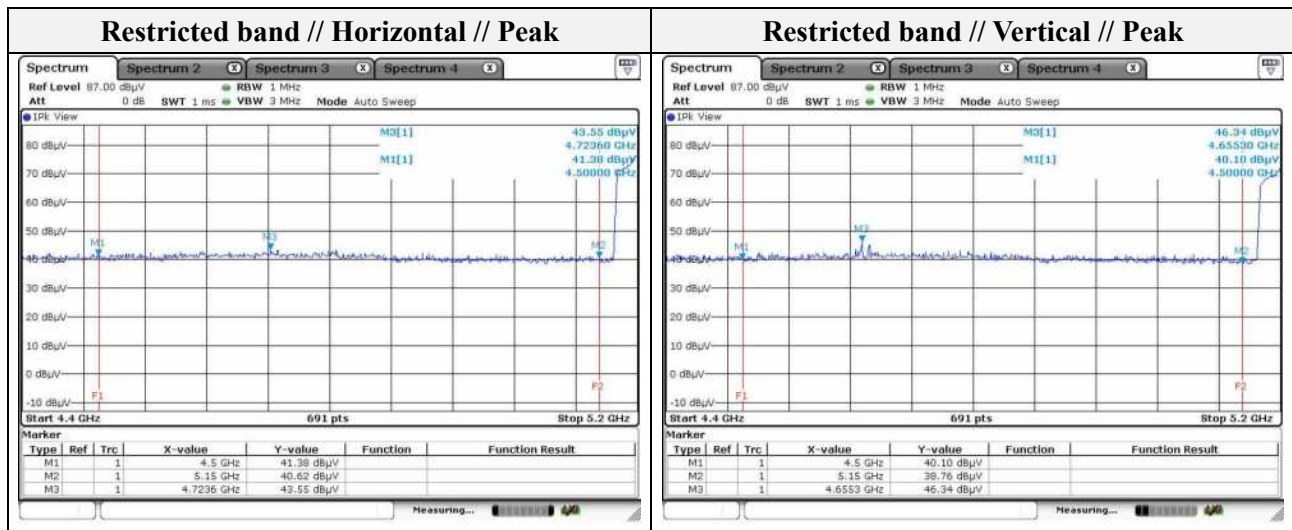
Mode: UNII-1(VHT80)
Distance of measurement: 3 meter
Channel: 42

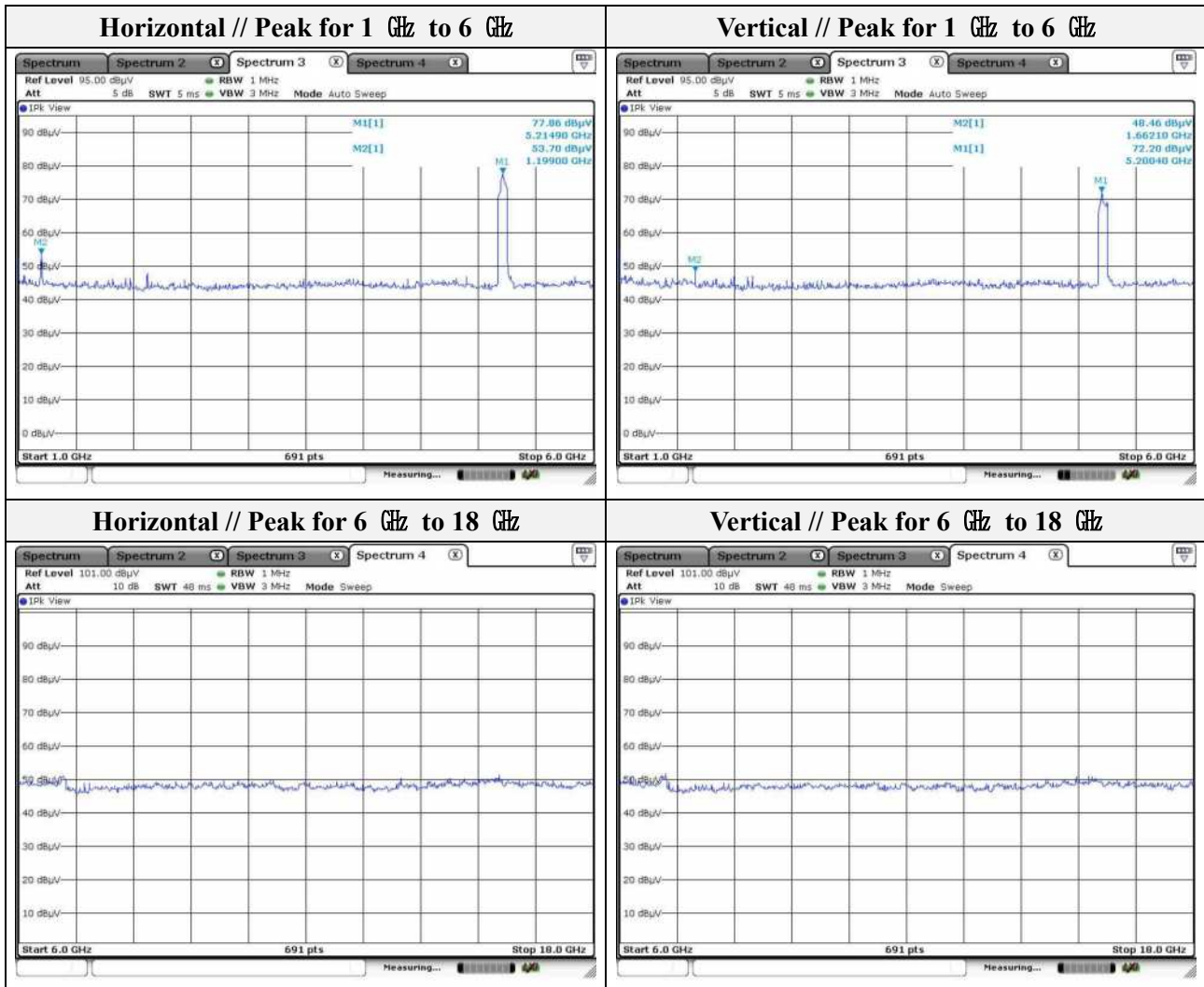
- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	53.70	Peak	H	-8.09	-	45.61	74.00	28.39
1 662.10	48.46	Peak	V	-4.85	-	43.61	74.00	30.39

- **Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4 723.60	43.55	Peak	H	6.56	-	50.11	74.00	23.89
4 655.30	46.34	Peak	V	5.99	-	52.33	74.00	21.67





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

Mode: UNII-2A(VHT80)

Distance of measurement: 3 meter

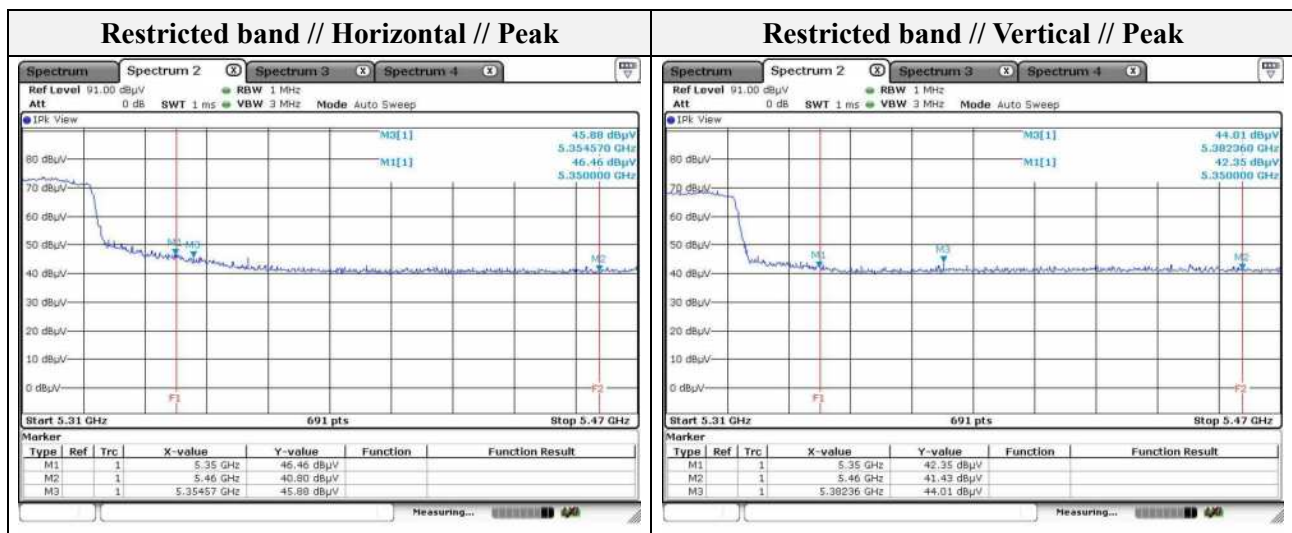
Channel: 58

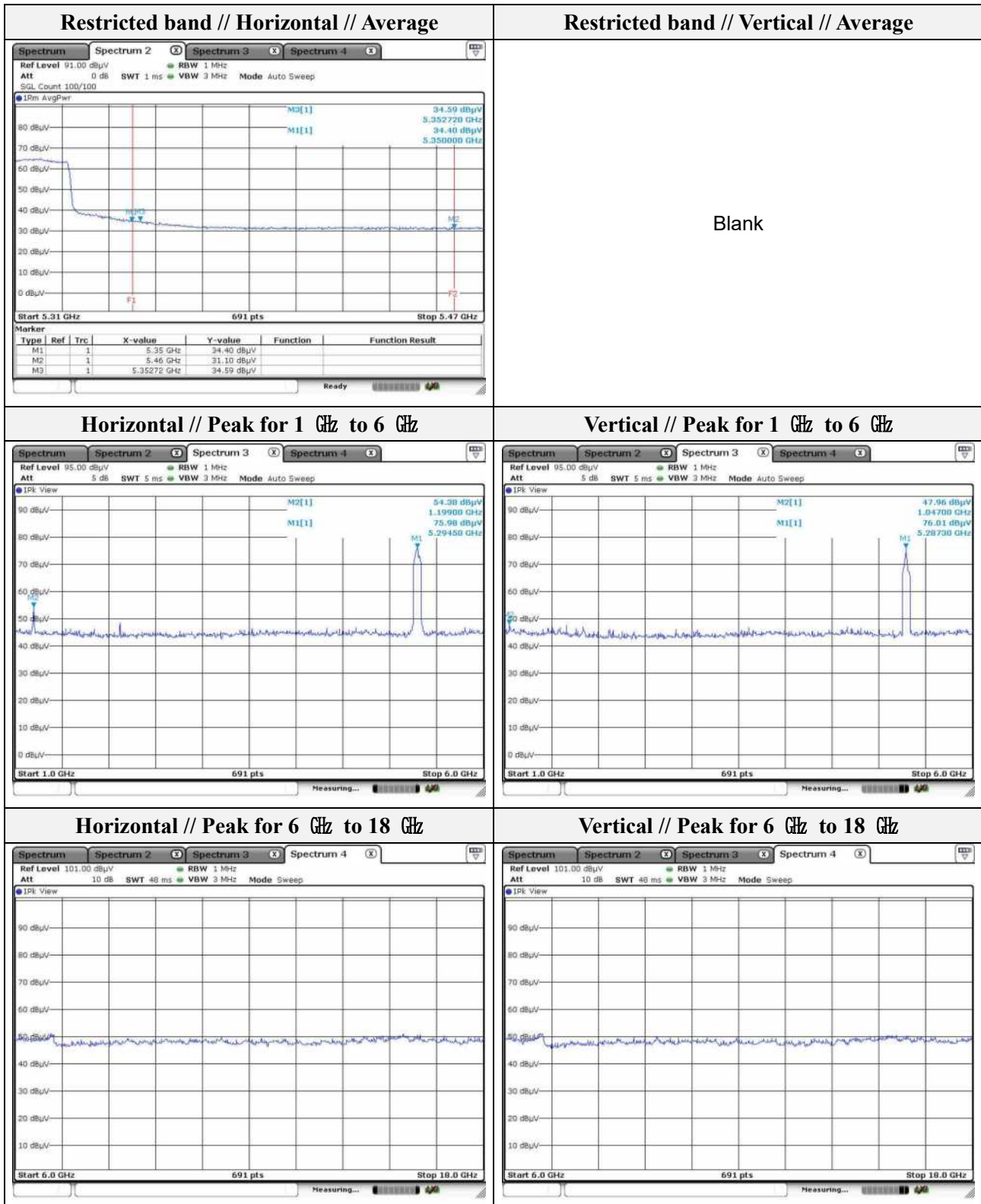
- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 199.00	54.38	Peak	H	-8.09	-	46.29	74.00	27.71
1 047.00	47.96	Peak	V	-8.86	-	39.10	74.00	34.90

- **Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 354.57	45.88	Peak	H	8.62	-	54.50	74.00	19.50
5 382.36	44.01	Peak	V	8.60	-	52.61	74.00	21.39
5 352.72	34.59	Average	H	8.62	1.14	44.35	54.00	9.65





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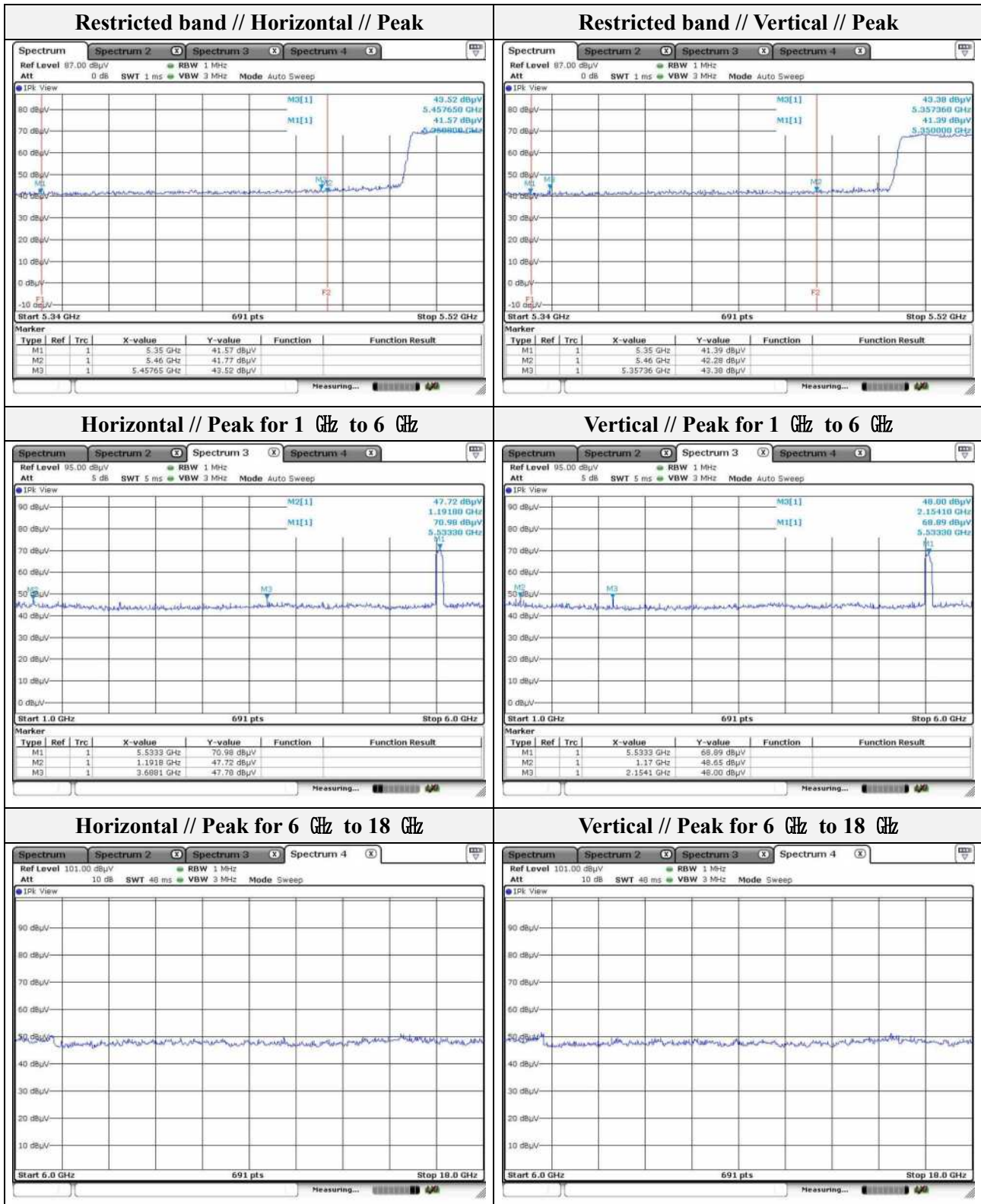
Mode: UNII-2C(VHT80)
Distance of measurement: 3 meter
Channel: 106

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 191.80	47.72	Peak	H	-8.13	-	39.59	74.00	34.41
3 688.10	47.78	Peak	H	2.10	-	49.88	74.00	24.12
1 170.00	48.65	Peak	V	-8.24	-	40.41	74.00	33.59
2 154.10	48.00	Peak	V	-0.94	-	47.06	68.20	21.14

- **Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 457.65	43.52	Peak	H	8.55	-	52.07	74.00	21.93
5 357.36	43.38	Peak	V	8.61	-	51.99	74.00	22.01



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

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Mode: UNII-2C(VHT80)

Distance of measurement: 3 meter

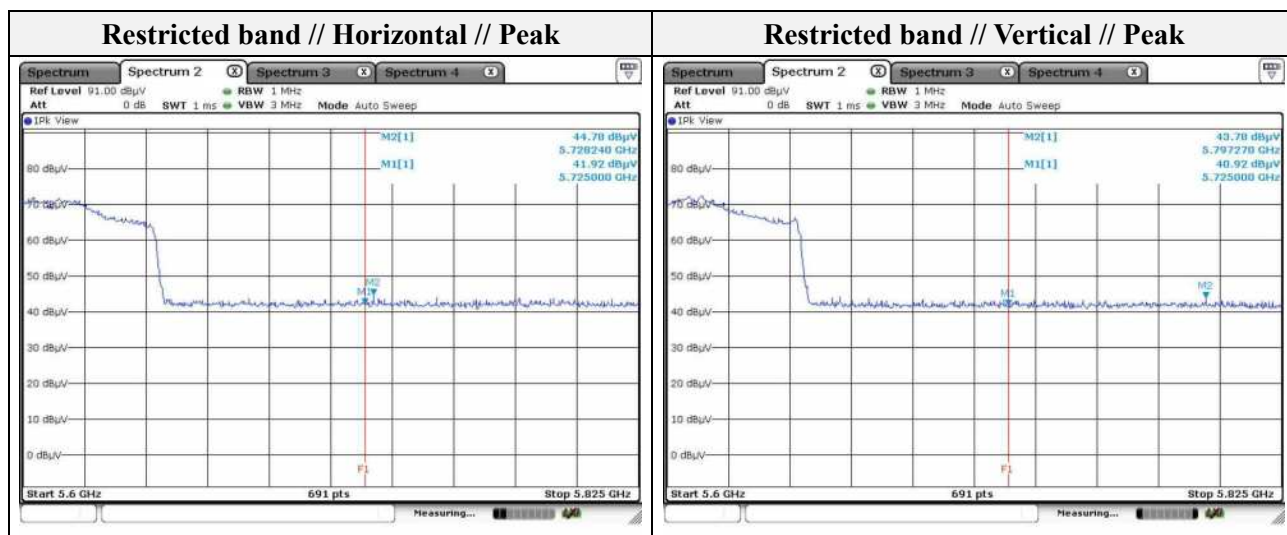
Channel: 122

- **Spurious**

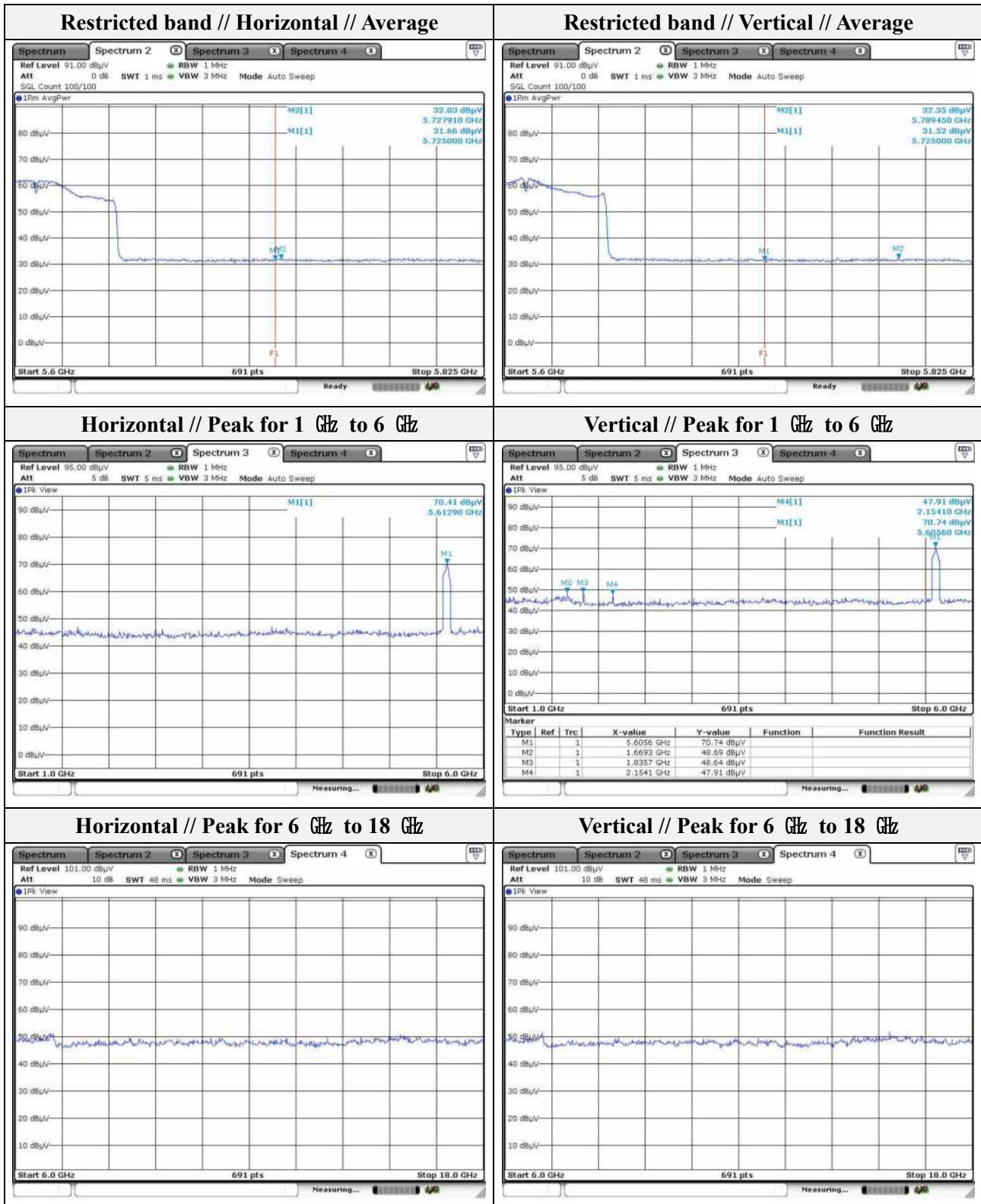
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 669.30	48.69	Peak	V	-4.78	-	43.91	74.00	30.09
1 835.70	48.64	Peak	V	-3.06	-	45.58	68.20	22.62
2 154.10	47.91	Peak	V	-0.94	-	46.97	68.20	21.23

- **Band edge**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 728.24	44.78	Peak	H	9.71	-	54.49	68.20	13.71
5 797.27	43.78	Peak	V	10.05	-	53.83	68.20	14.37
5 727.91	32.03	Average	H	9.71	1.44	43.18	58.20	15.02
5 789.45	32.35	Average	V	10.01	1.44	43.80	58.20	14.40



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Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

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Mode: UNII-3(VHT80)
Distance of measurement: 3 meter
Channel: 155

- Spurious

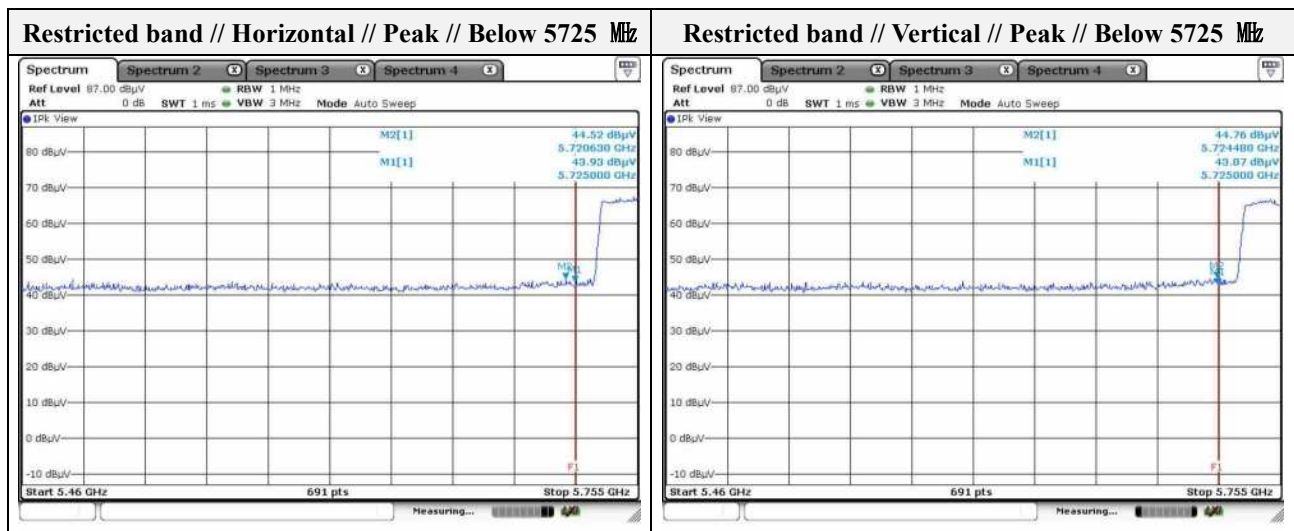
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 206.20	47.59	Peak	H	-8.05	-	39.54	74.00	34.46
1 162.80	47.99	Peak	V	-8.27	-	39.72	74.00	34.28
1 850.20	47.29	Peak	V	-2.90	-	44.39	68.20	23.81

- Band edge // Below 5725 MHz

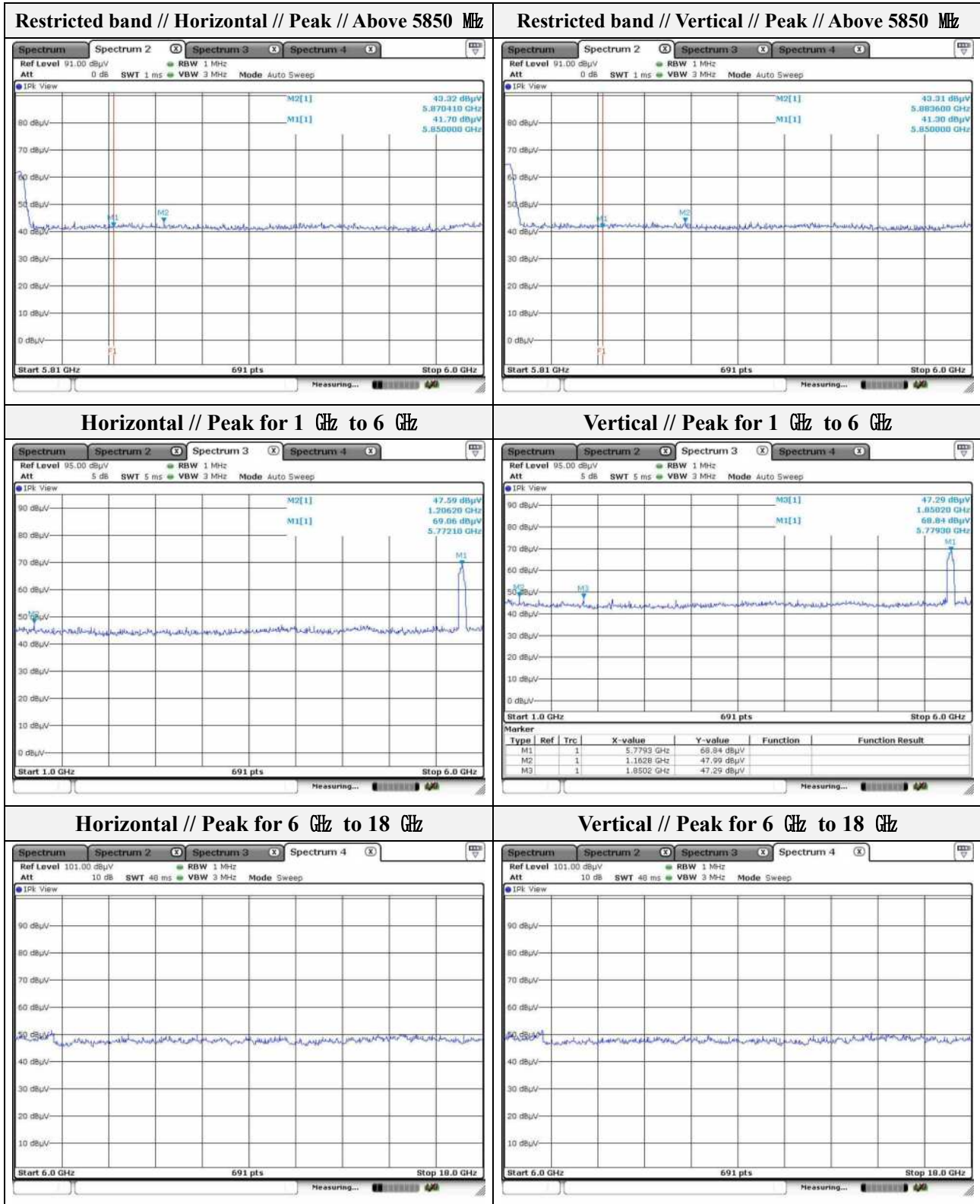
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 720.63	44.52	Peak	H	10.25	-	54.77	112.27	57.50
5 725.00	43.93	Peak	H	10.26	-	54.19	122.23	68.04
5 724.48	44.76	Peak	V	10.26	-	55.02	121.04	66.02
5 725.00	43.07	Peak	V	10.26	-	53.33	122.23	68.90

- Band edge // Above 5850 MHz

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 850.00	41.70	Peak	H	10.55	-	52.25	122.23	69.98
5 870.41	43.32	Peak	H	10.51	-	53.83	88.43	34.60
5 850.00	41.30	Peak	V	10.55	-	51.85	122.23	70.38
5 883.60	43.31	Peak	V	10.48	-	53.79	83.55	29.76



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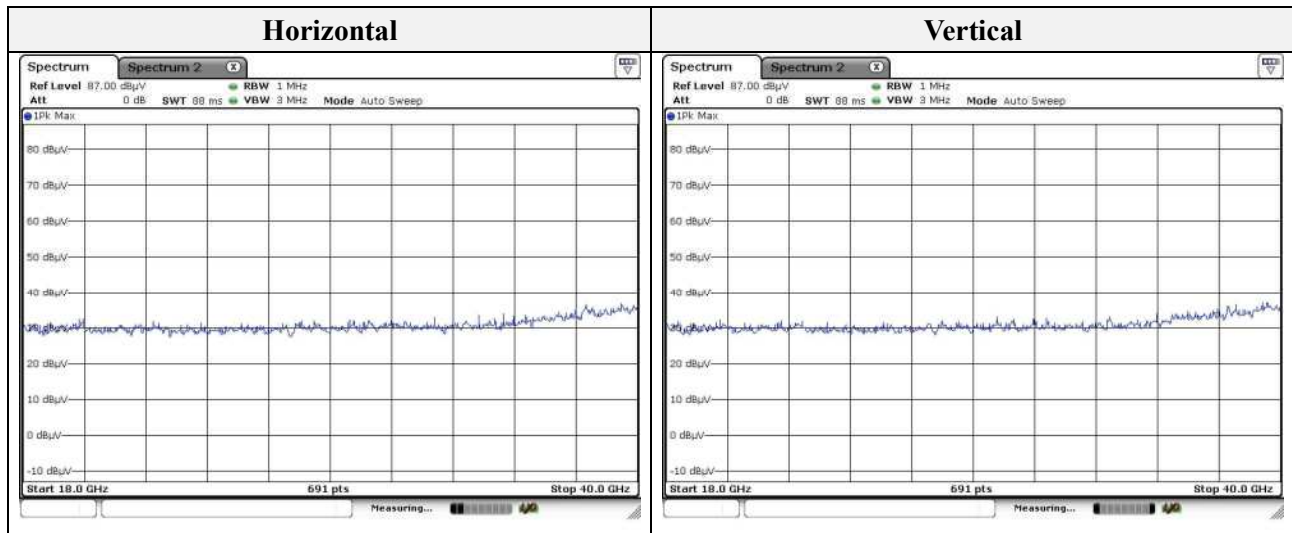
Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

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Test results (18 GHz to 40 GHz) – Worst case

Mode: UNII-1 (11ac_VHT20)
 Distance of measurement: 3 meter
 Channel: 36

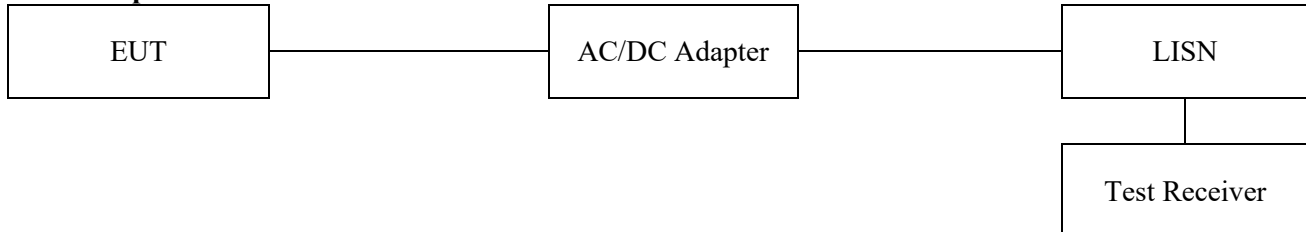


Note.

1. No spurious emission were detected above 18 GHz.

3.7. AC conducted emissions

Test setup



Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted limit (dBμV/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

According to RSS-Gen 8.8, a radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits in Table 3.

Unless the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 3 below. The more stringent limit applies at the frequency range boundaries.

Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

* The level decreases linearly with the logarithm of the frequency.

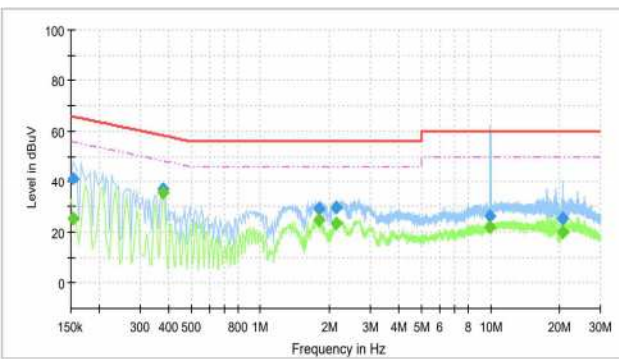
* A linear average detector is required.

Note:

1. All AC line conducted spurious emission are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and the appropriate frequencies. All data rates and modes were investigated for conducted spurious emission. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.
2. Both Cable loss and LISN factor are included in measurement level (QP Level or AV Level).

Test results

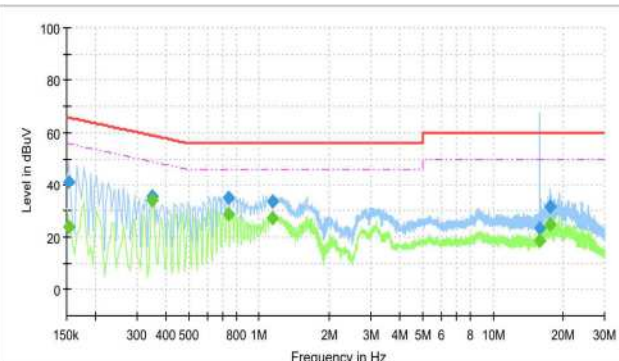
Hot Line



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	40.95	---	65.78	24.83	1000.0	9.000	L1	19.8
0.154000	---	24.98	55.78	30.80	1000.0	9.000	L1	19.8
0.378000	36.99	---	58.32	21.33	1000.0	9.000	L1	19.9
0.378000	---	35.40	48.32	12.92	1000.0	9.000	L1	19.9
1.790000	28.85	---	56.00	27.15	1000.0	9.000	L1	20.5
1.790000	---	24.93	46.00	21.07	1000.0	9.000	L1	20.5
2.134000	29.33	---	56.00	26.67	1000.0	9.000	L1	20.5
2.134000	---	23.21	46.00	22.79	1000.0	9.000	L1	20.5
9.990000	26.42	---	60.00	33.58	1000.0	9.000	L1	20.4
9.990000	---	21.84	50.00	28.16	1000.0	9.000	L1	20.4
20.582000	---	20.05	50.00	29.95	1000.0	9.000	L1	21.0
20.582000	25.15	---	60.00	34.85	1000.0	9.000	L1	21.0

Neutral Line



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	---	23.88	55.78	31.90	1000.0	9.000	N	19.7
0.154000	41.12	---	65.78	24.66	1000.0	9.000	N	19.7
0.350000	---	34.06	48.96	14.90	1000.0	9.000	N	19.8
0.350000	35.46	---	58.96	23.50	1000.0	9.000	N	19.8
0.738000	---	28.63	46.00	17.37	1000.0	9.000	N	20.2
0.738000	35.04	---	56.00	20.96	1000.0	9.000	N	20.2
1.134000	---	27.11	46.00	18.89	1000.0	9.000	N	20.3
1.134000	33.41	---	56.00	22.59	1000.0	9.000	N	20.3
15.790000	23.22	---	60.00	36.78	1000.0	9.000	N	20.6
15.790000	---	18.55	50.00	31.45	1000.0	9.000	N	20.6
17.538000	---	24.93	50.00	25.07	1000.0	9.000	N	20.8
17.538000	31.65	---	60.00	28.35	1000.0	9.000	N	20.8

Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum Analyzer	R&S	FSV40	101002	1 year	2021.07.02
8360B Series Swept Signal Generator	HP	83630B	3844A00786	1 year	2022.01.15
AC POWER SOURCE/ ANALYZER	HP	6813A	3729A00754	1 year	2022.01.15
Power Meter	Anritsu	ML2495A	1438001	1 year	2022.01.14
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	2022.01.14
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2023.02.15
Trilog-broadband antenna	SCHWARZBECK	VULB 9163	715	2 years	2022.12.08
Horn Antenna	A.H.	SAS-571	781	2 years	2021.05.13
Horn Antenna	A.H SYSTEMS	SAS-571	414	2 years	2022.02.11
High Pass Filter	Wainwright Instrument Gmbh	WHJS3000-10TT	1	1 year	2021.06.29
AMPLIFIER	SONOMA INSTRUMENT	310N	401123	1 year	2021.06.08
Preamplifier	AGILENT	8449B	8008A01640	1 year	2021.04.01
EMI Test Receiver	R&S	ESU26	100551	1 year	2021.04.01
EMI TEST RECEIVER	R&S	ESR3	101781	1 year	2021.12.29
LISN	R&S	ENV216	101787	1 year	2022.01.02

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
-	-	-	-

Appendix B. Test setup photos



The end of test report.

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