

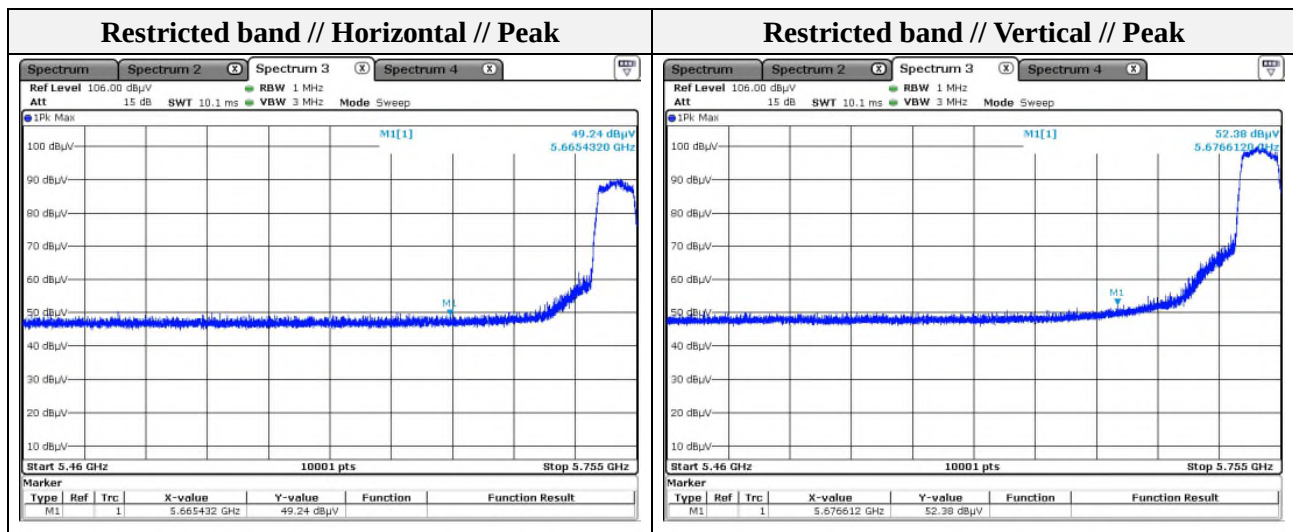
Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 149
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1218.73	48.27	Peak	H	-11.24	-	37.03	74.00	36.97
3131.59	47.22	Peak	H	-1.85	-	45.37	68.20	22.83
1338.72	47.74	Peak	V	-11.19	-	36.55	74.00	37.45
3133.09	47.94	Peak	V	-1.85	-	46.09	68.20	22.11

- Band edge

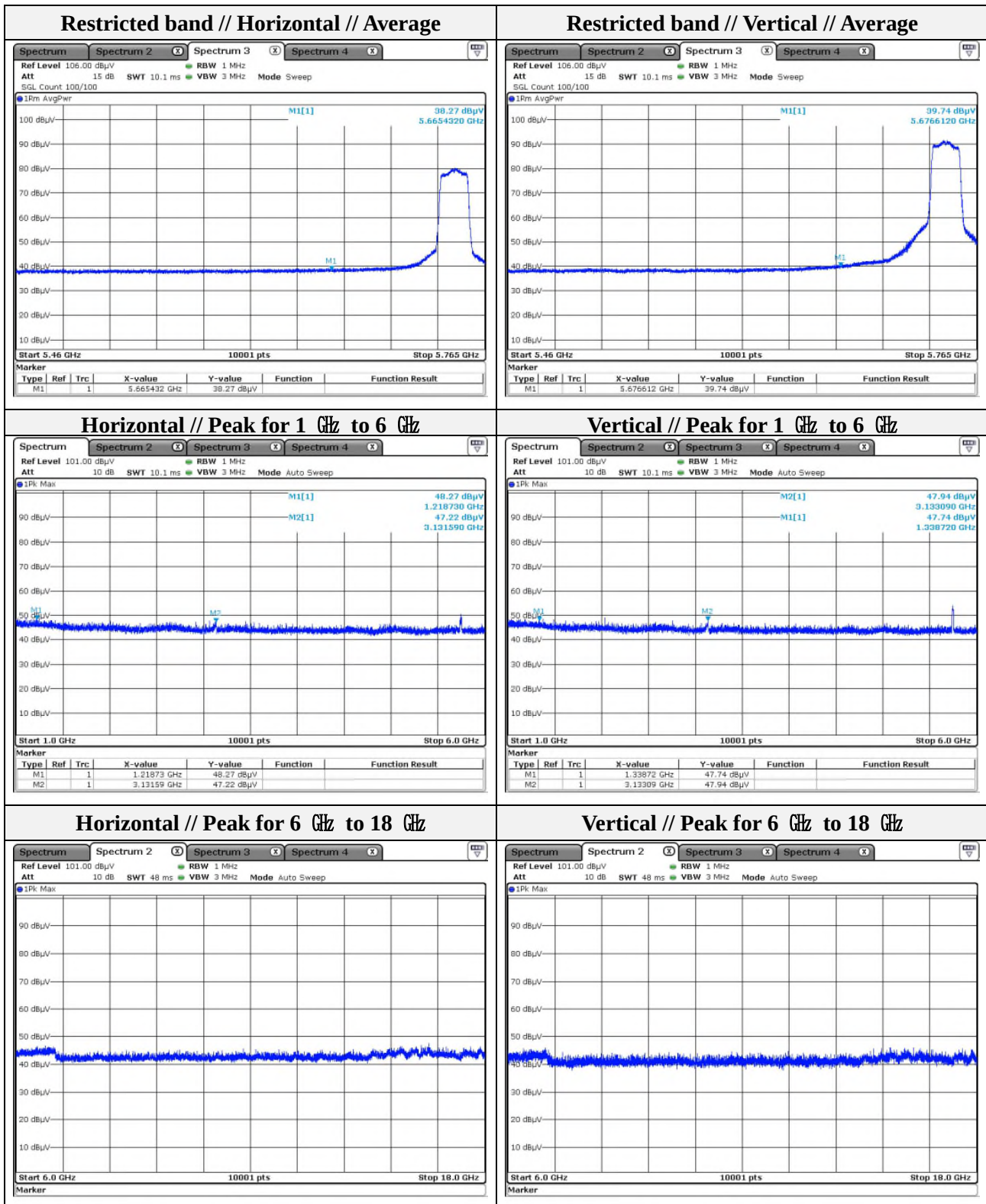
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5665.43	49.24	Peak	H	5.88	-	55.12	79.65	24.53
5676.61	52.38	Peak	V	5.99	-	58.37	87.92	29.55
5665.43	38.27	Average	H	5.88	-	44.15	69.65	25.50
5676.61	39.74	Average	V	5.99	-	45.73	77.92	32.19



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Note.

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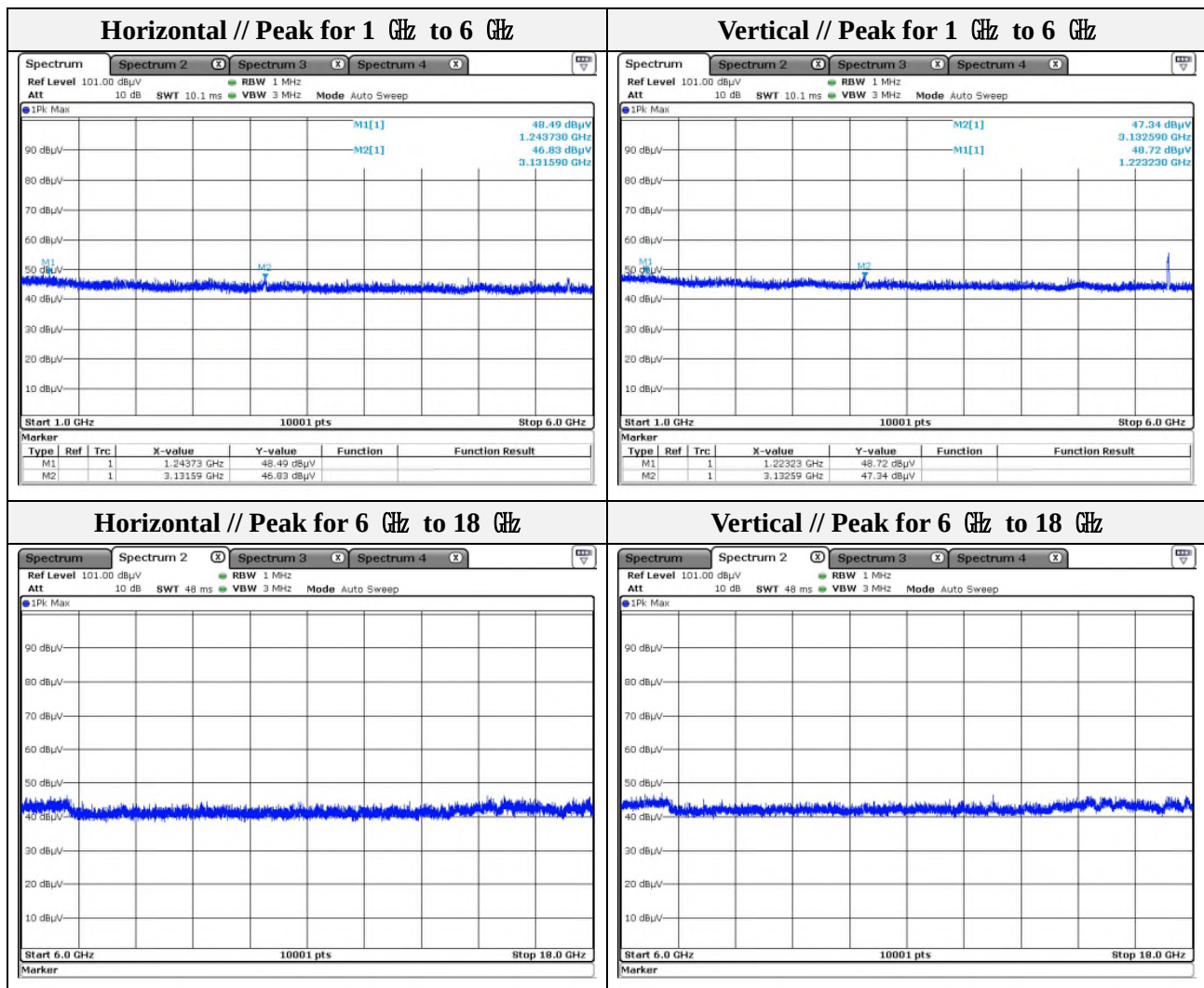
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Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 157
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1243.73	48.49	Peak	H	-11.23	-	37.26	74.00	36.74
3131.59	46.83	Peak	H	-1.85	-	44.98	68.20	23.22
1223.23	48.72	Peak	V	-11.24	-	37.48	74.00	36.52
3132.59	47.34	Peak	V	-1.85	-	45.49	68.20	22.71



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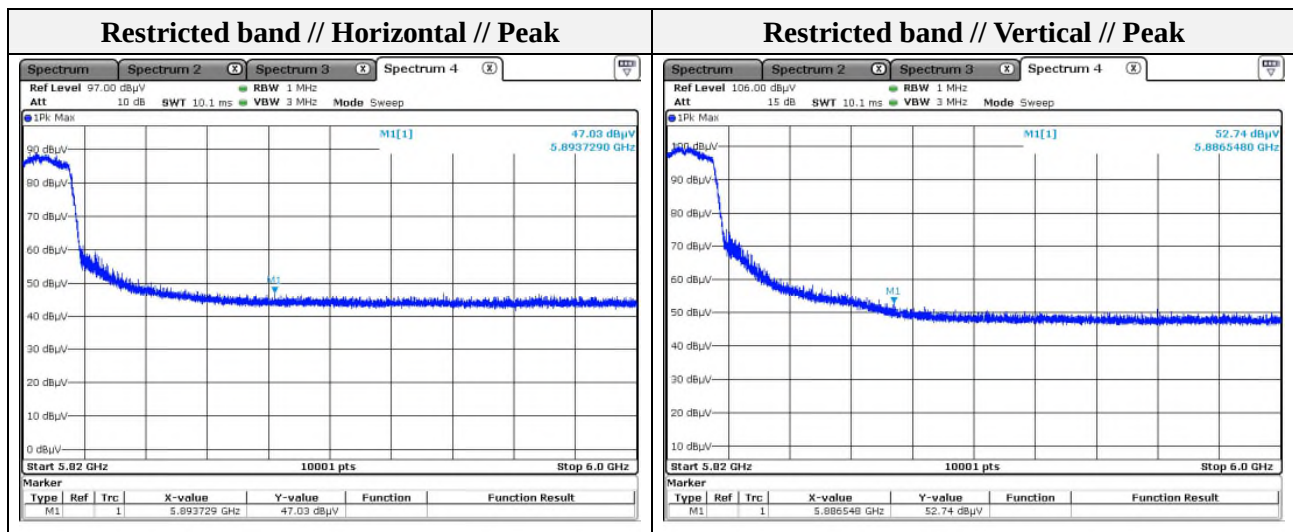
Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 165
ANT #1: Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1372.26	48.70	Peak	H	-5.43	-	44.20	74.00	29.80
5019.50	46.26	Peak	H	16.22	-	45.73	68.20	22.47
1553.50	48.05	Peak	V	-2.18	-	36.58	74.00	37.42
3405.90	46.83	Peak	V	7.94	-	45.67	68.20	22.53

- Band edge

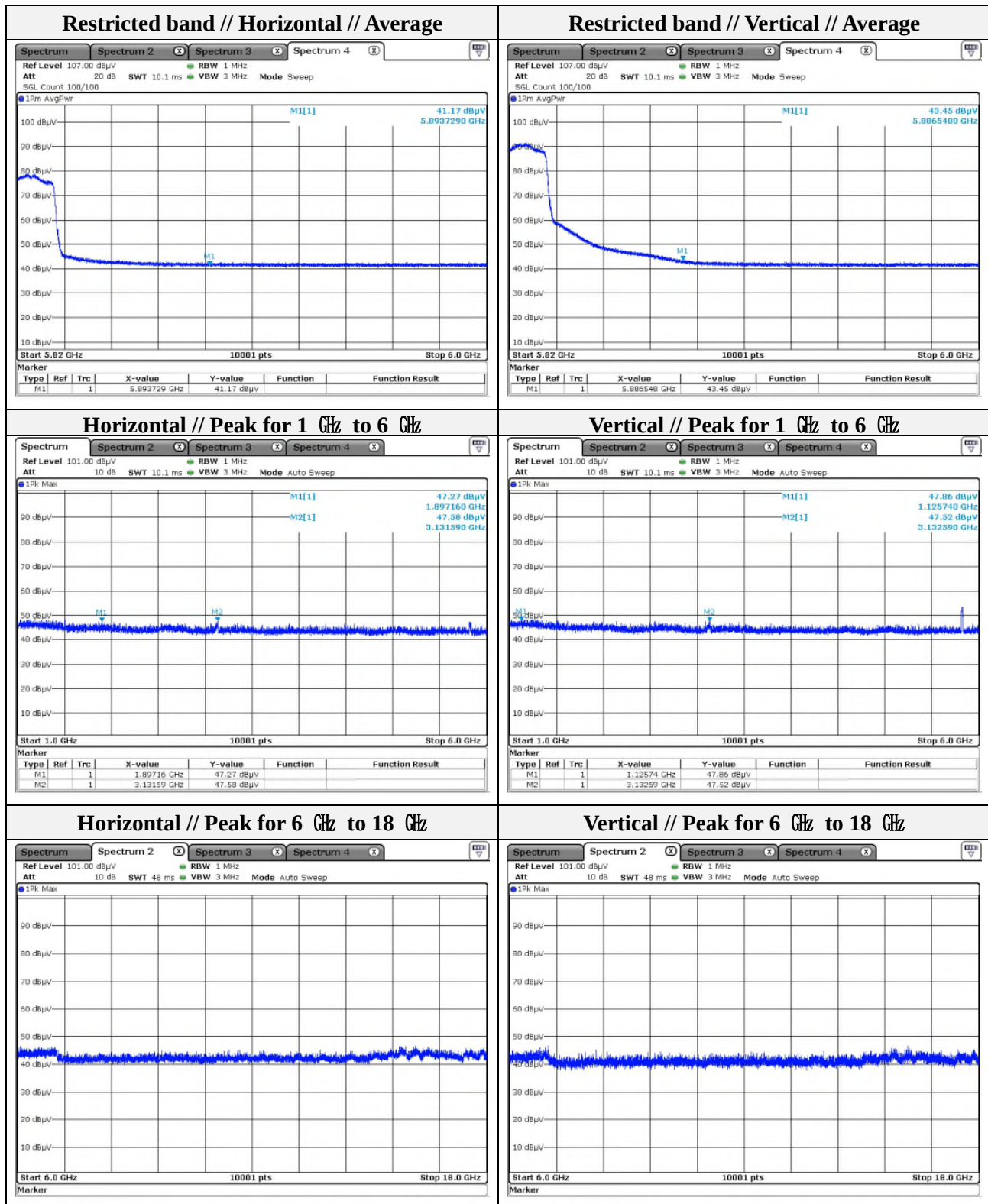
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5893.73	47.03	Peak	H	7.73	-	54.76	79.80	25.04
5893.73	41.17	Average	H	7.73	-	48.90	69.80	20.90
5886.55	52.74	Peak	V	7.69	-	60.43	82.46	22.03
5886.55	43.45	Average	V	7.69	-	51.14	72.46	21.32



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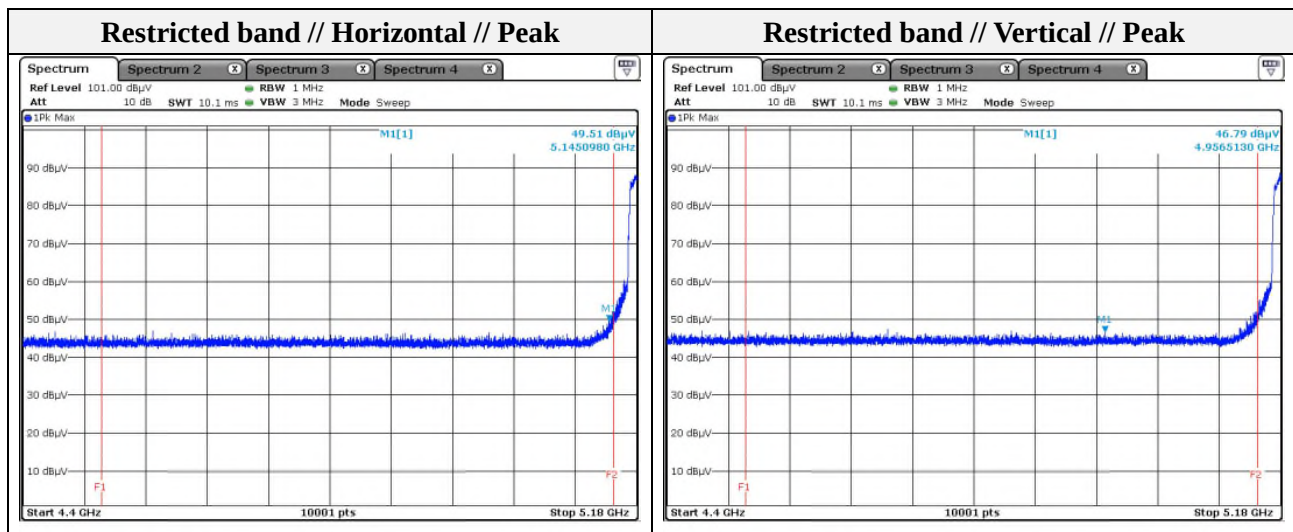
Mode: UNII-1(HT20)
Distance of measurement: 3 meter
Channel: 36
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1375.21	49.36	Peak	H	-11.18	-	38.18	74.00	35.82
1050.24	51.00	Peak	V	-11.30		39.70	74.00	34.30

- Band edge

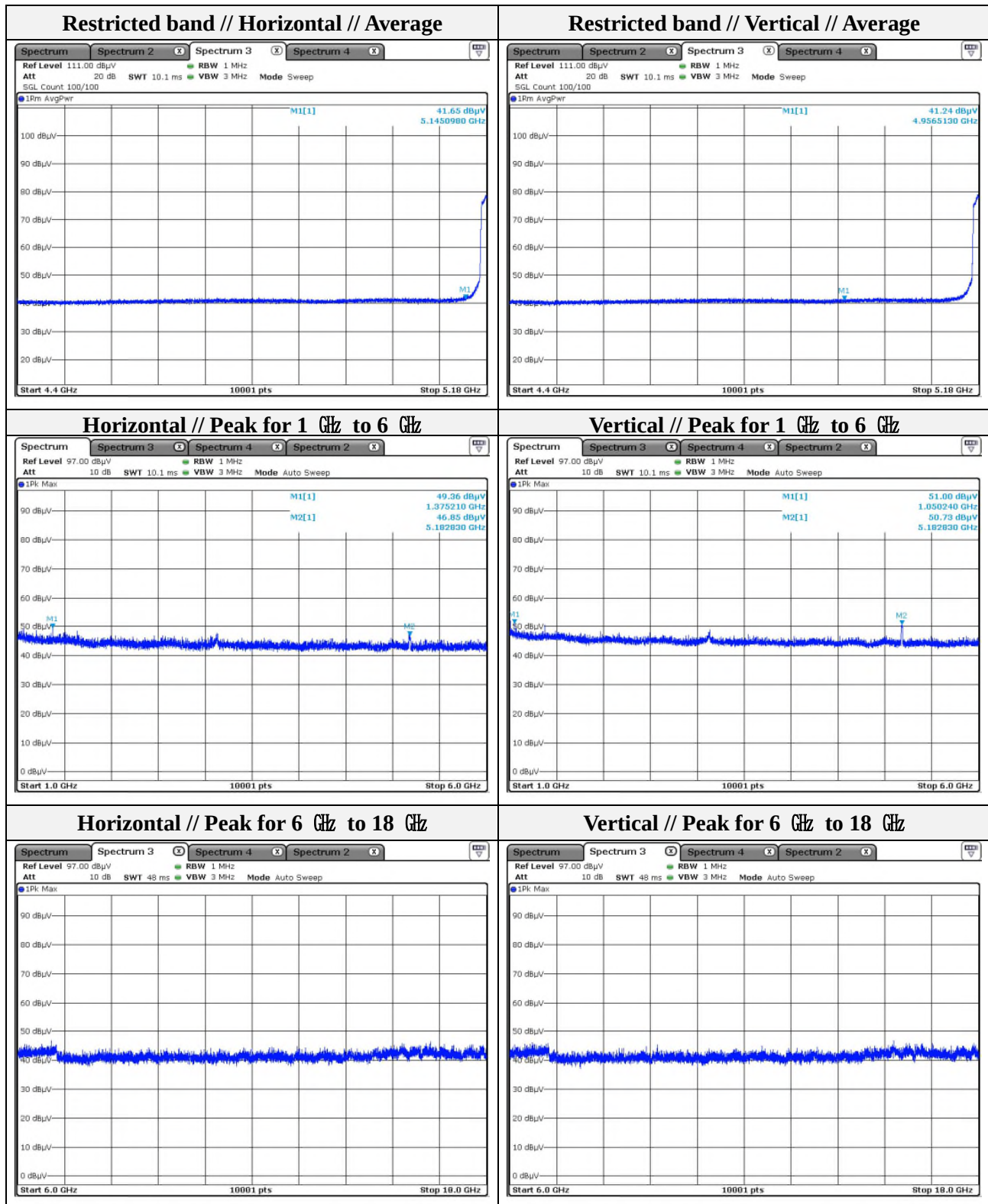
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5145.10	49.51	Peak	H	4.07	-	53.58	74.00	20.42
5145.10	41.65	Average	H	4.07	-	45.72	54.00	8.28
4956.51	46.79	Peak	V	4.61	-	51.40	74.00	22.60
4956.51	41.24	Average	V	4.61		45.85	54.00	8.15



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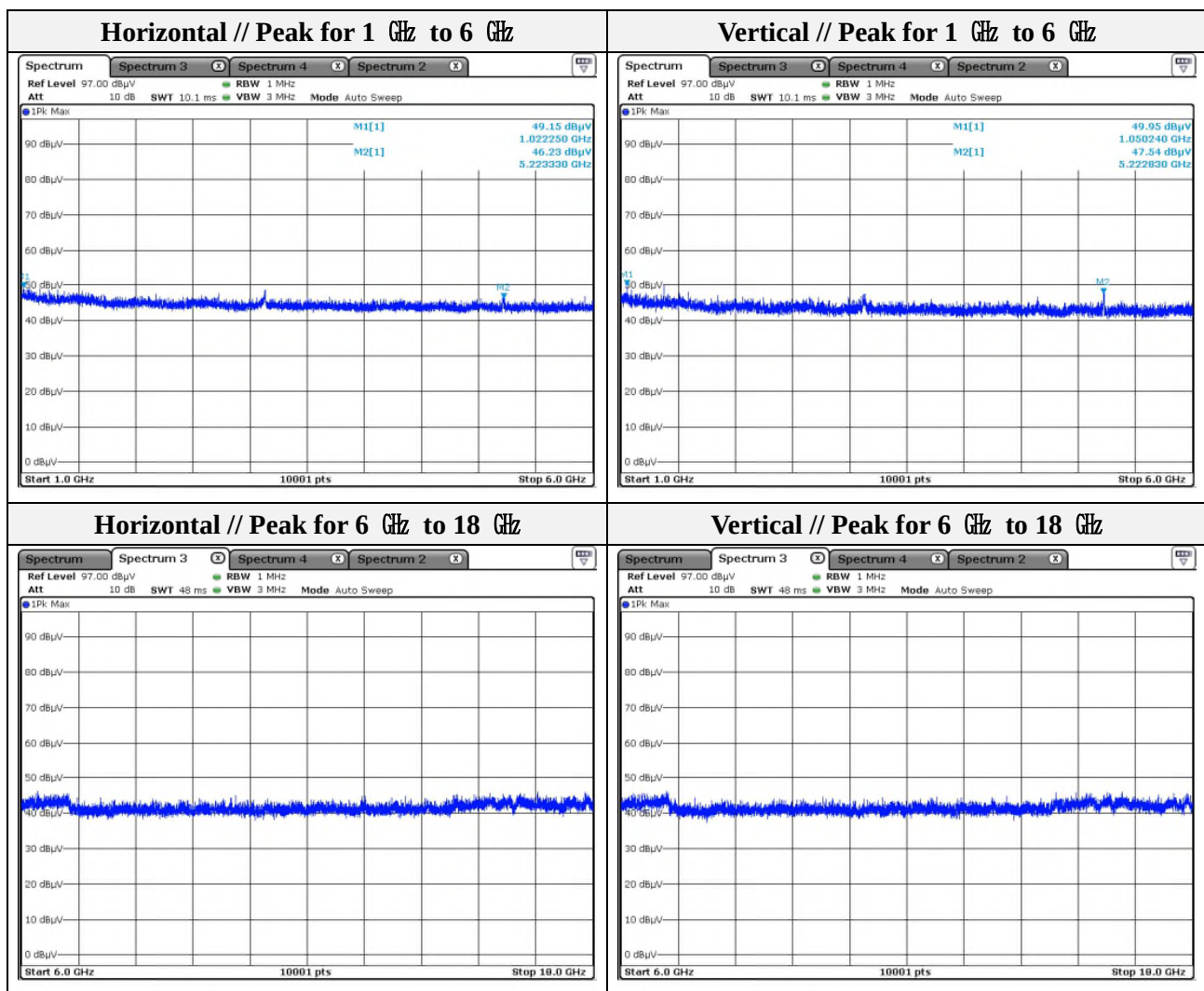
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Mode: UNII-1(HT20)
Distance of measurement: 3 meter
Channel: 44
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1022.25	49.15	Peak	H	-11.31	-	37.84	74.00	36.16
1050.24	49.95	Peak	V	-11.30	-	38.65	74.00	35.35



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Mode: UNII-1(HT20)

Distance of measurement: 3 meter

Channel: 48

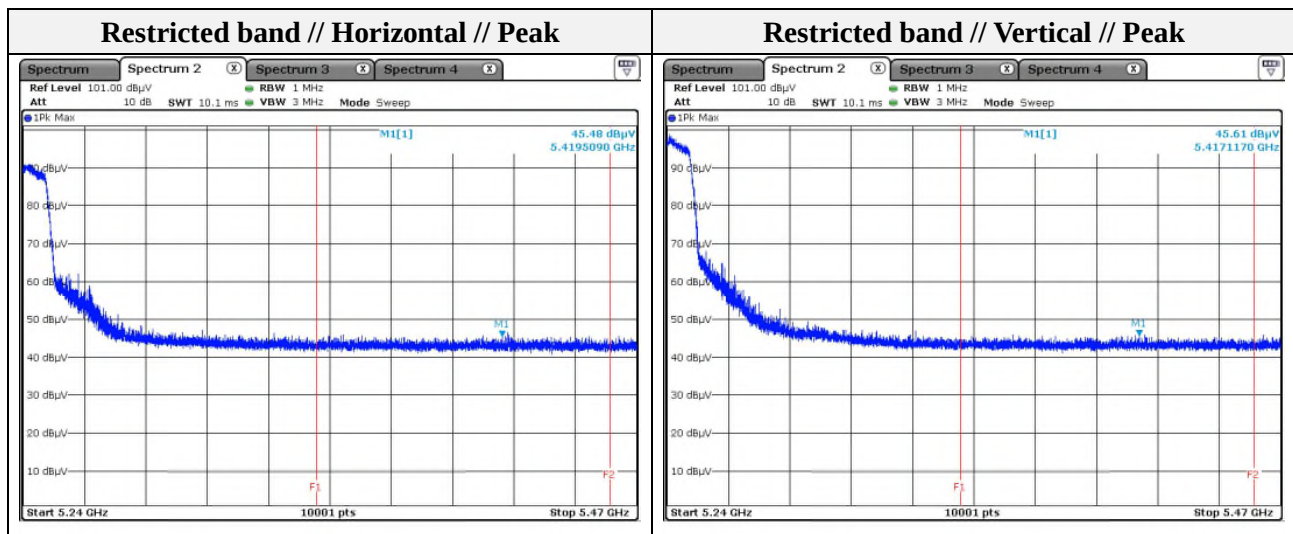
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1125.74	49.50	Peak	H	-11.27	-	38.23	74.00	35.77
1375.21	49.32	Peak	V	-11.18	-	38.14	74.00	35.86

- Band edge

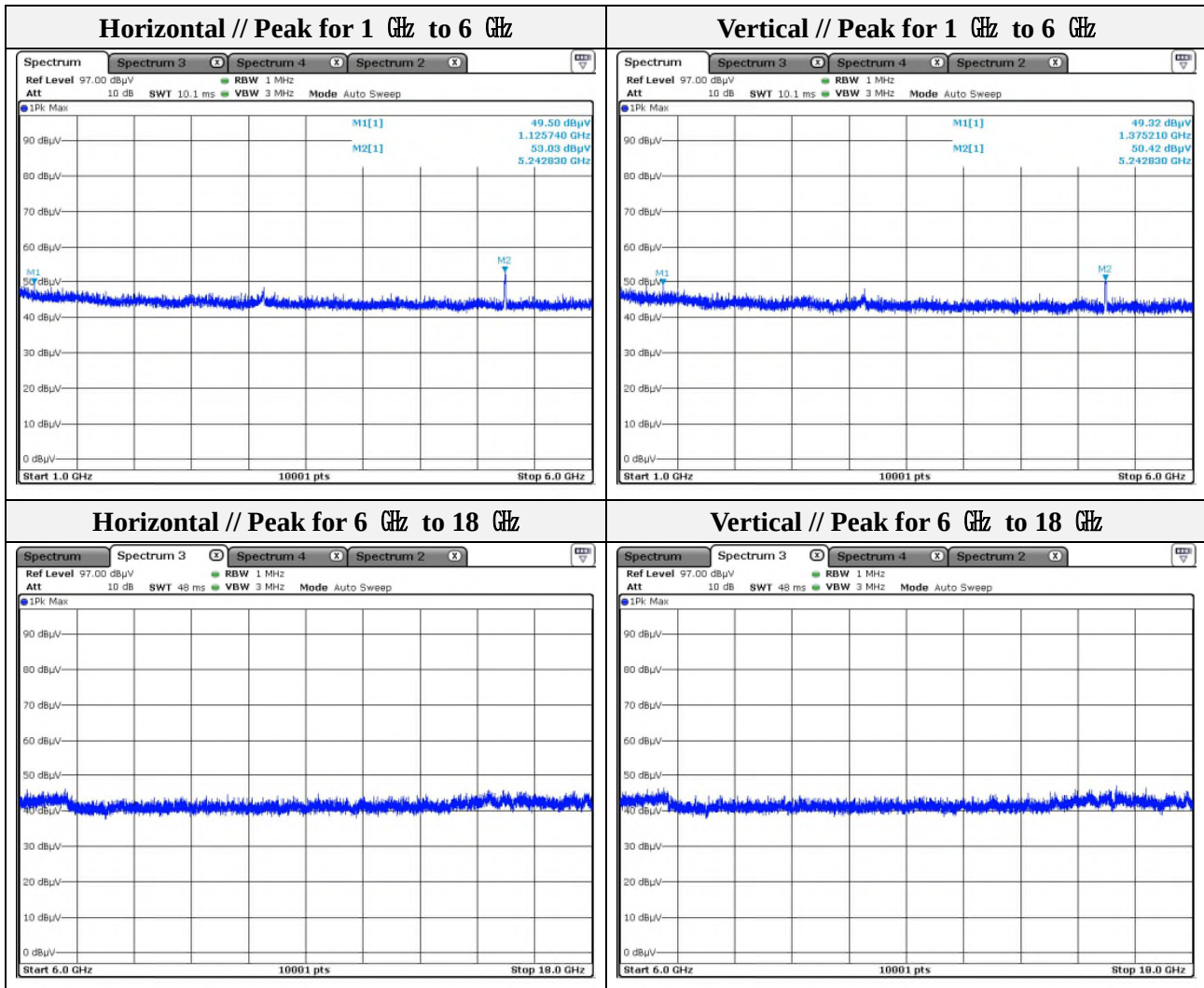
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5419.51	45.48	Peak	H	2.87	-	48.35	74.00	25.65
5417.12	45.61	Peak	V	2.89	-	48.50	74.00	25.50



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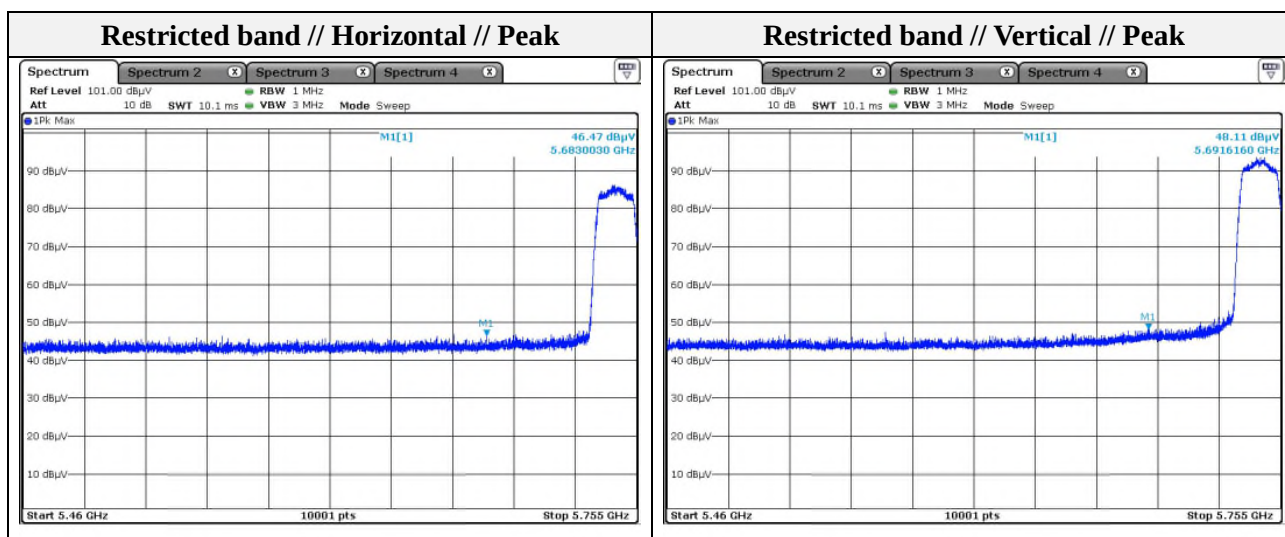
Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 149
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1048.25	48.54	Peak	H	-11.30	-	37.24	74.00	36.76
1029.75	48.83	Peak	V	-11.31	-	37.52	74.00	36.48

- Band edge

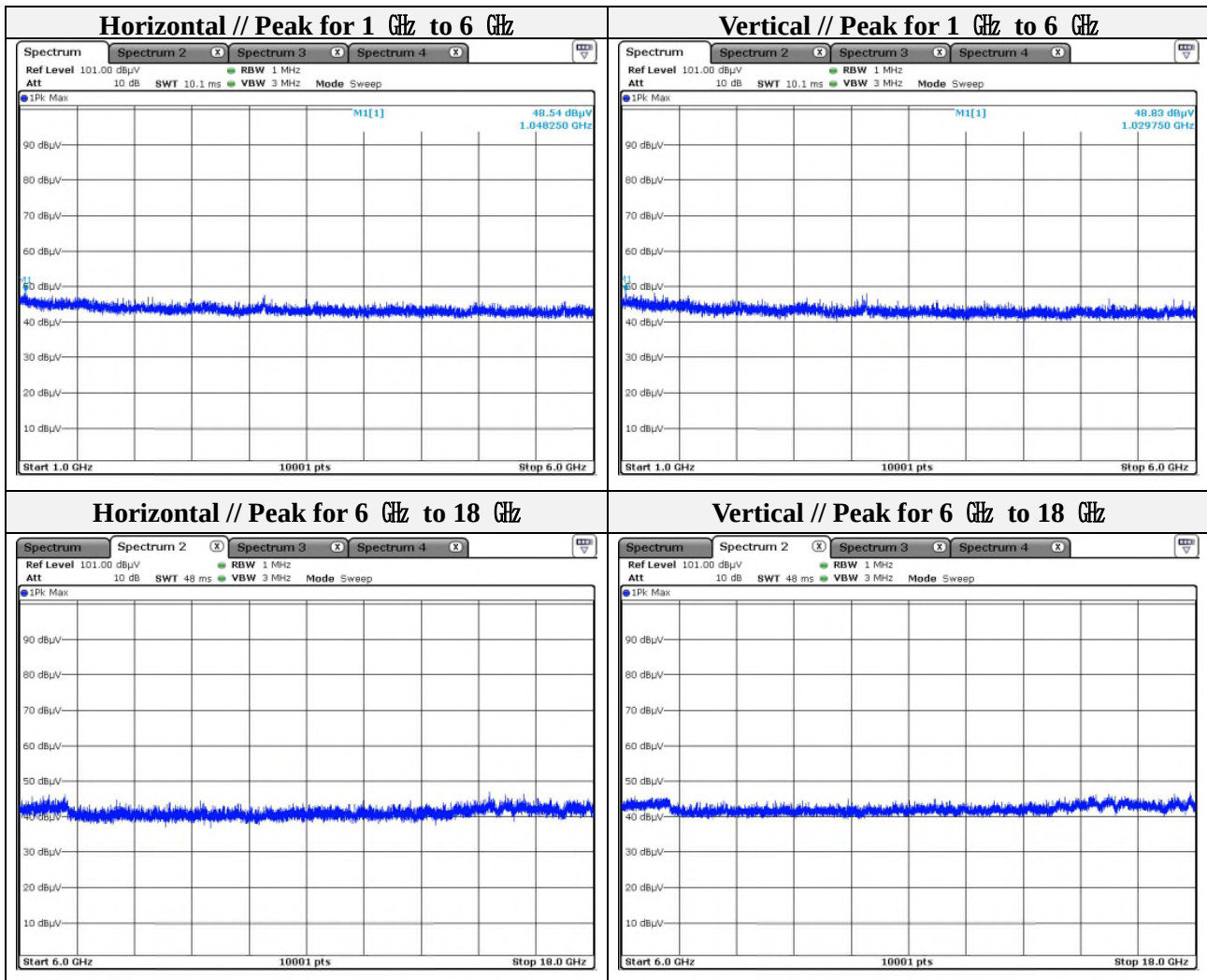
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5683.00	46.47	Peak	H	6.05	-	52.52	92.65	40.13
5691.62	48.11	Peak	V	6.12	-	54.23	99.03	44.80



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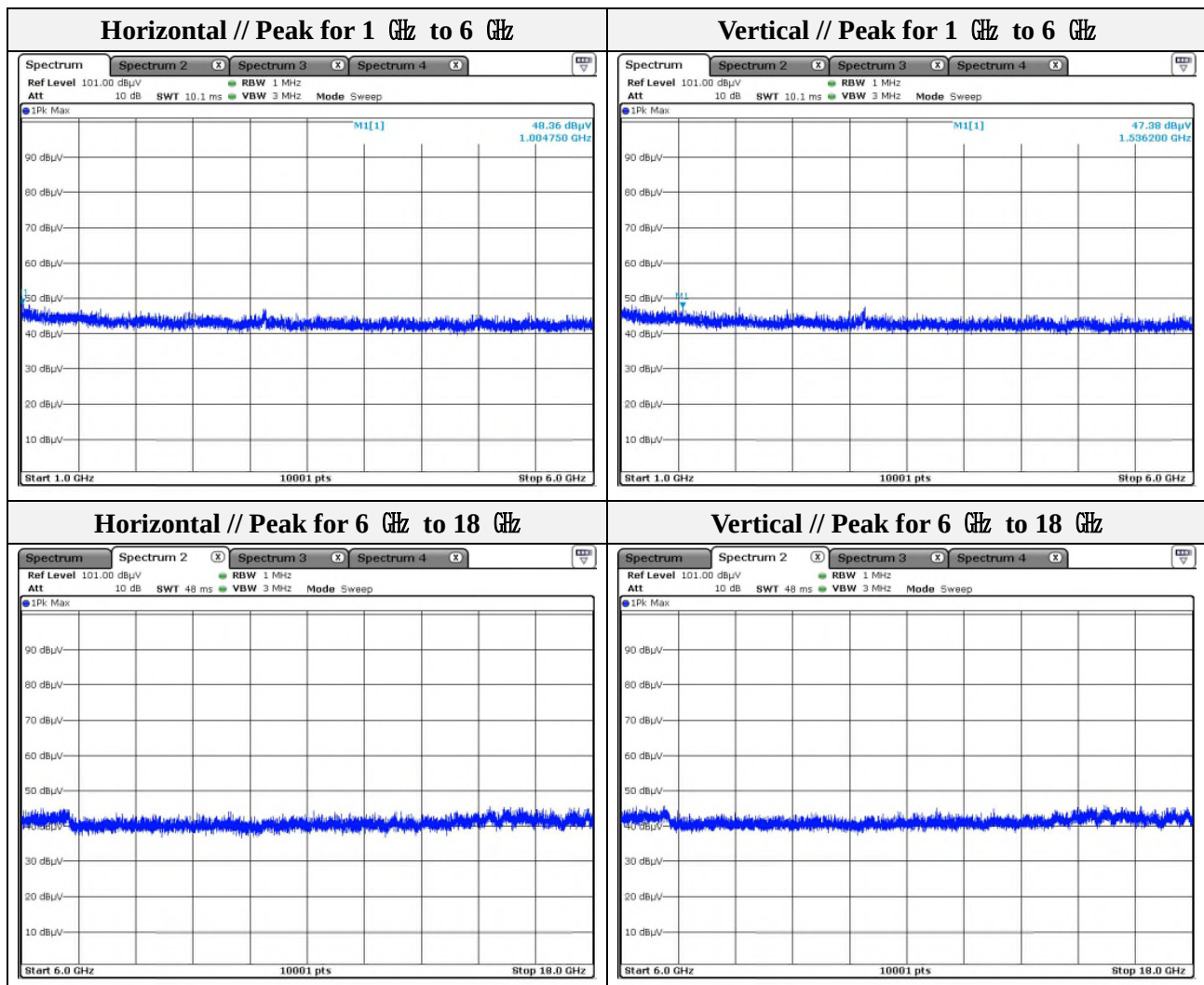
The authenticity of the test report, contact shchoi@kes.co.kr



Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 157
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1004.75	48.36	Peak	H	-11.32	-	37.04	74.00	36.96
1536.20	47.38	Peak	V	-8.50	-	38.88	74.00	35.12



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Mode: UNII-3(HT20)

Distance of measurement: 3 meter

Channel: 165

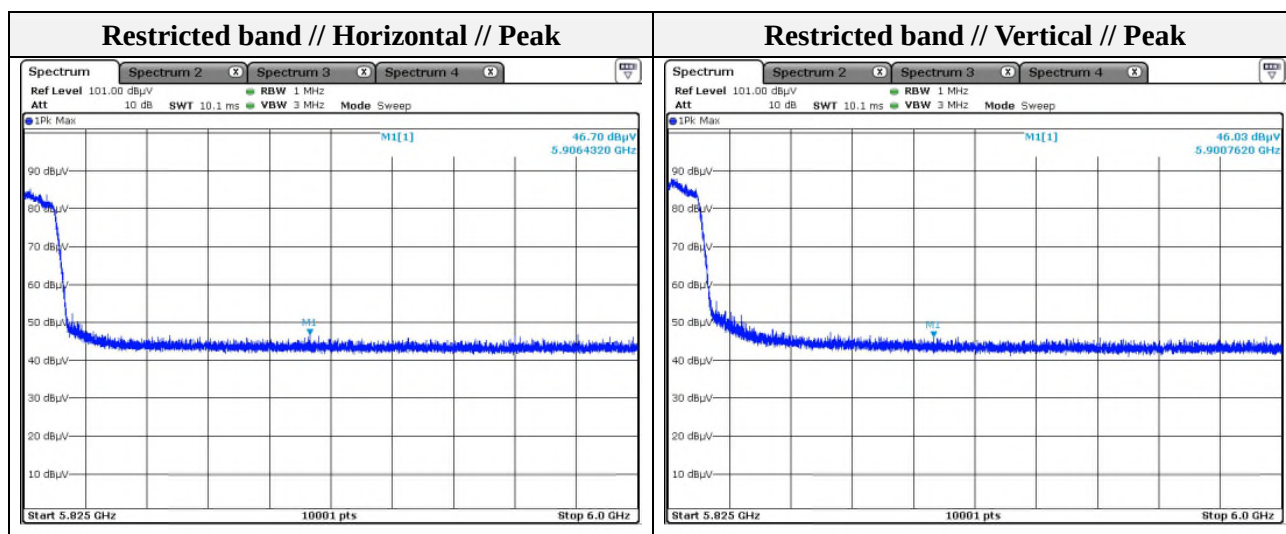
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1051.74	47.31	Peak	H	-11.31	-	36.00	74.00	38.00
3128.54	48.23	Peak	V	-1.86	-	46.37	68.23	21.86

- Band edge

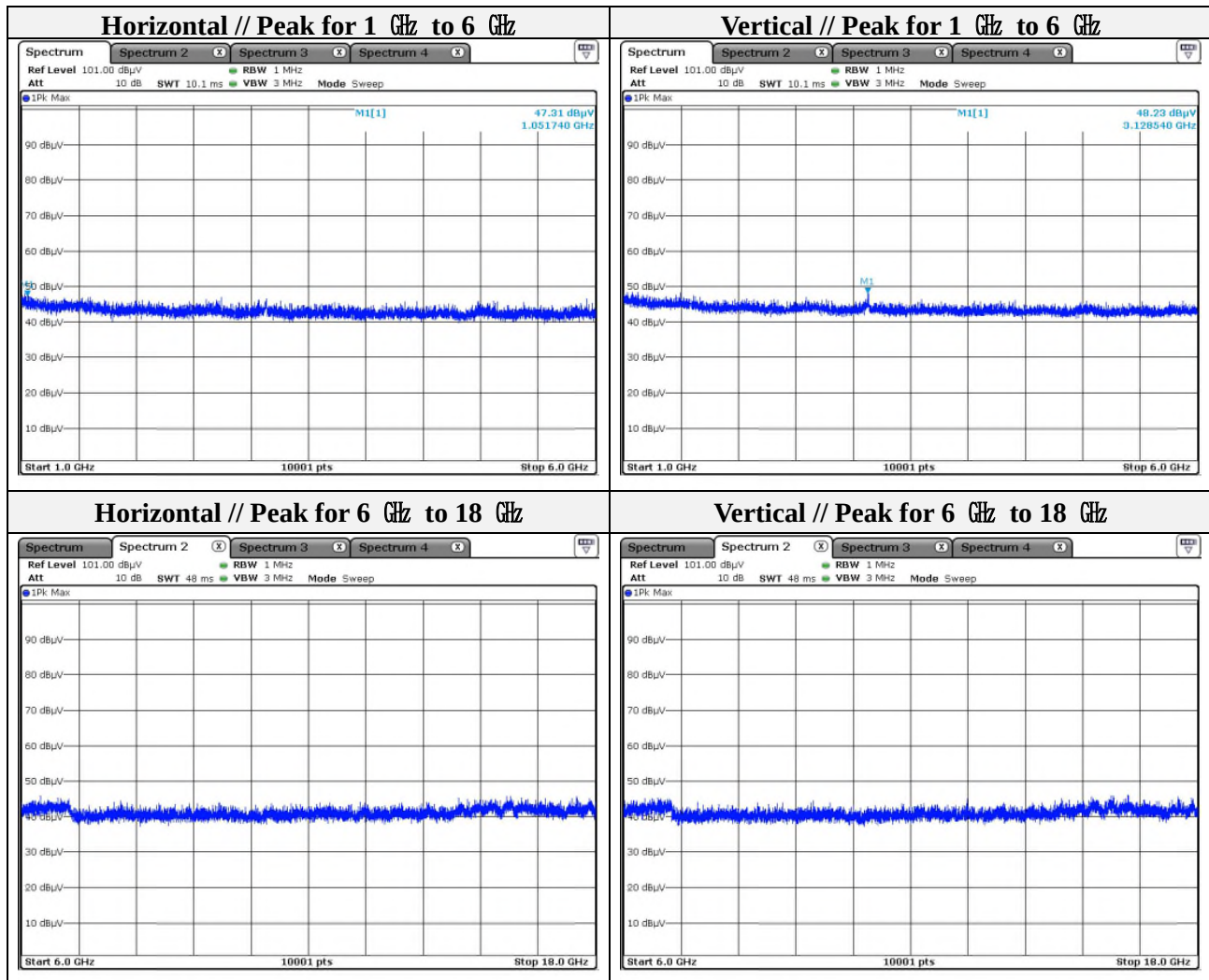
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5906.43	46.70	Peak	H	7.81	-	54.51	79.36	24.85
5900.76	46.03	Peak	V	7.77	-	53.80	84.02	30.22



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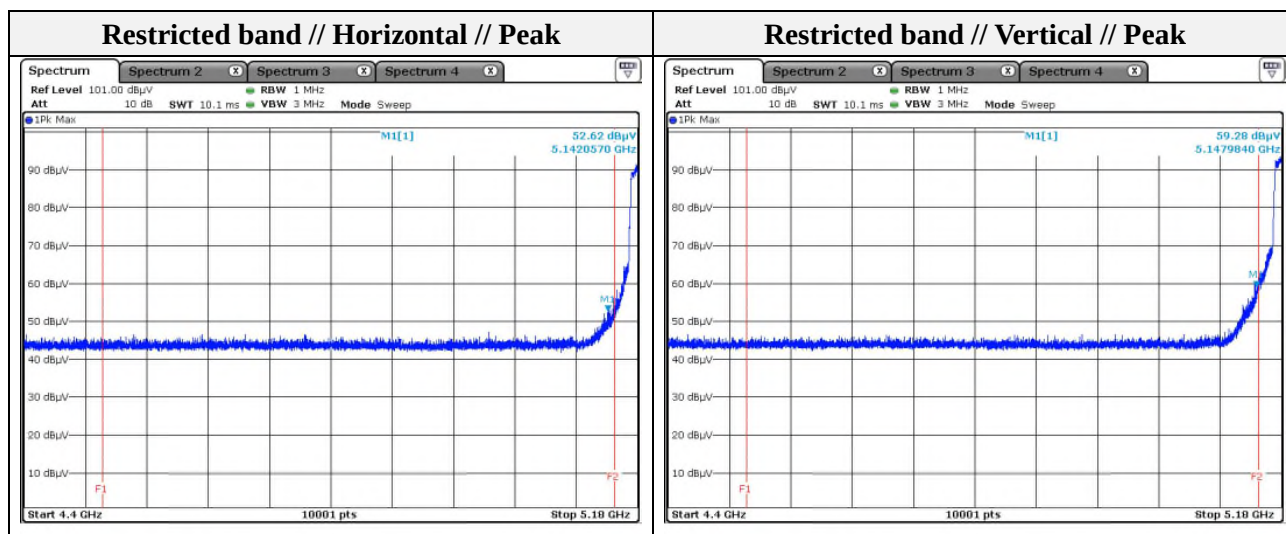
Mode: UNII-1(HT20)
Distance of measurement: 3 meter
Channel: 36
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1052.74	47.69	Peak	H	-11.30	-	36.39	74.00	37.61
1143.74	48.08	Peak	V	-11.27	-	36.81	74.00	37.19

- Band edge

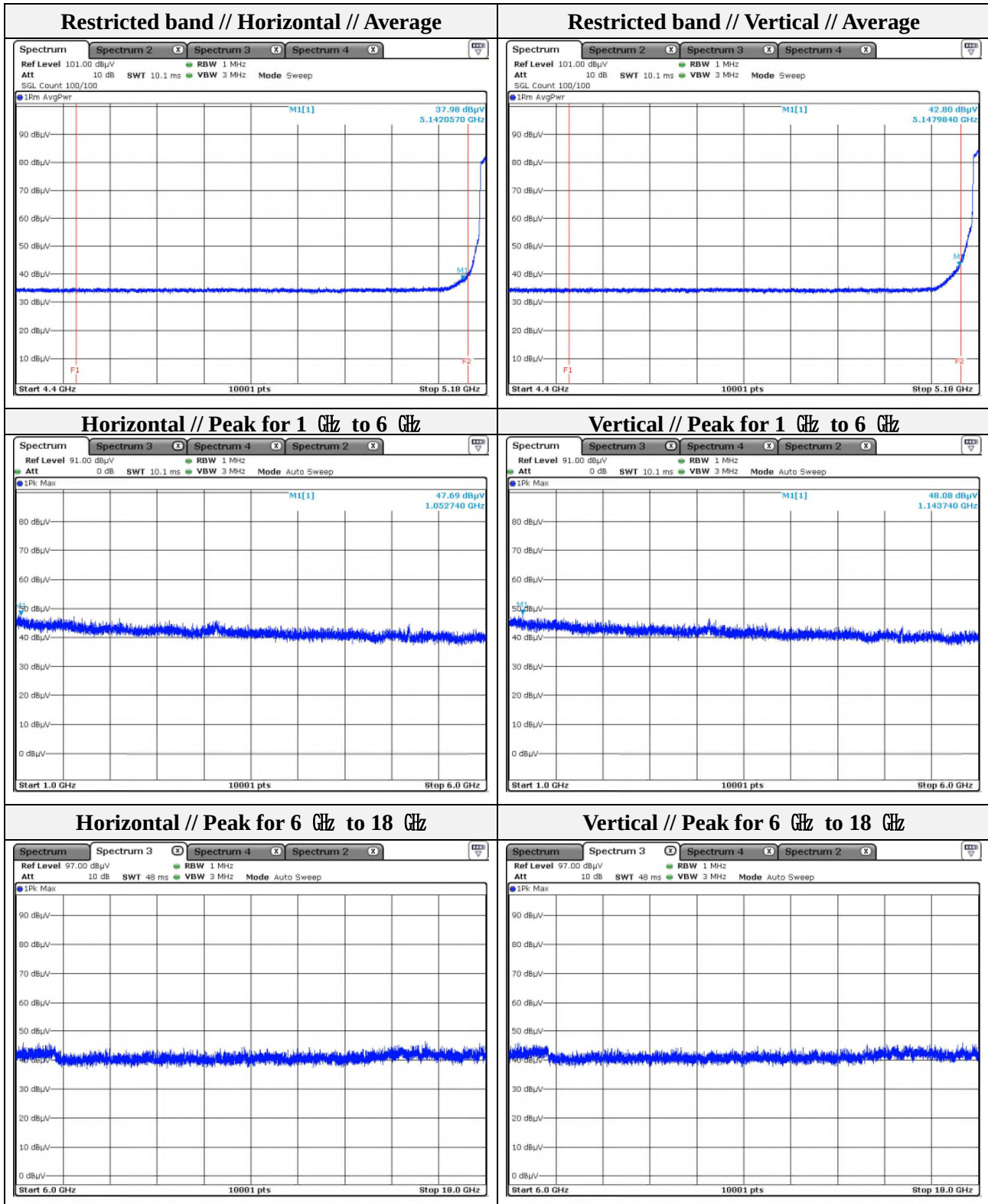
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5142.06	52.62	Peak	H	4.08	-	56.70	74.00	17.30
5142.06	37.98	Average	H	4.08	-	42.06	54.00	11.94
5147.98	59.28	Peak	V	4.05	-	63.33	74.00	10.67
5147.98	42.80	Average	V	4.05	-	46.85	54.00	7.15



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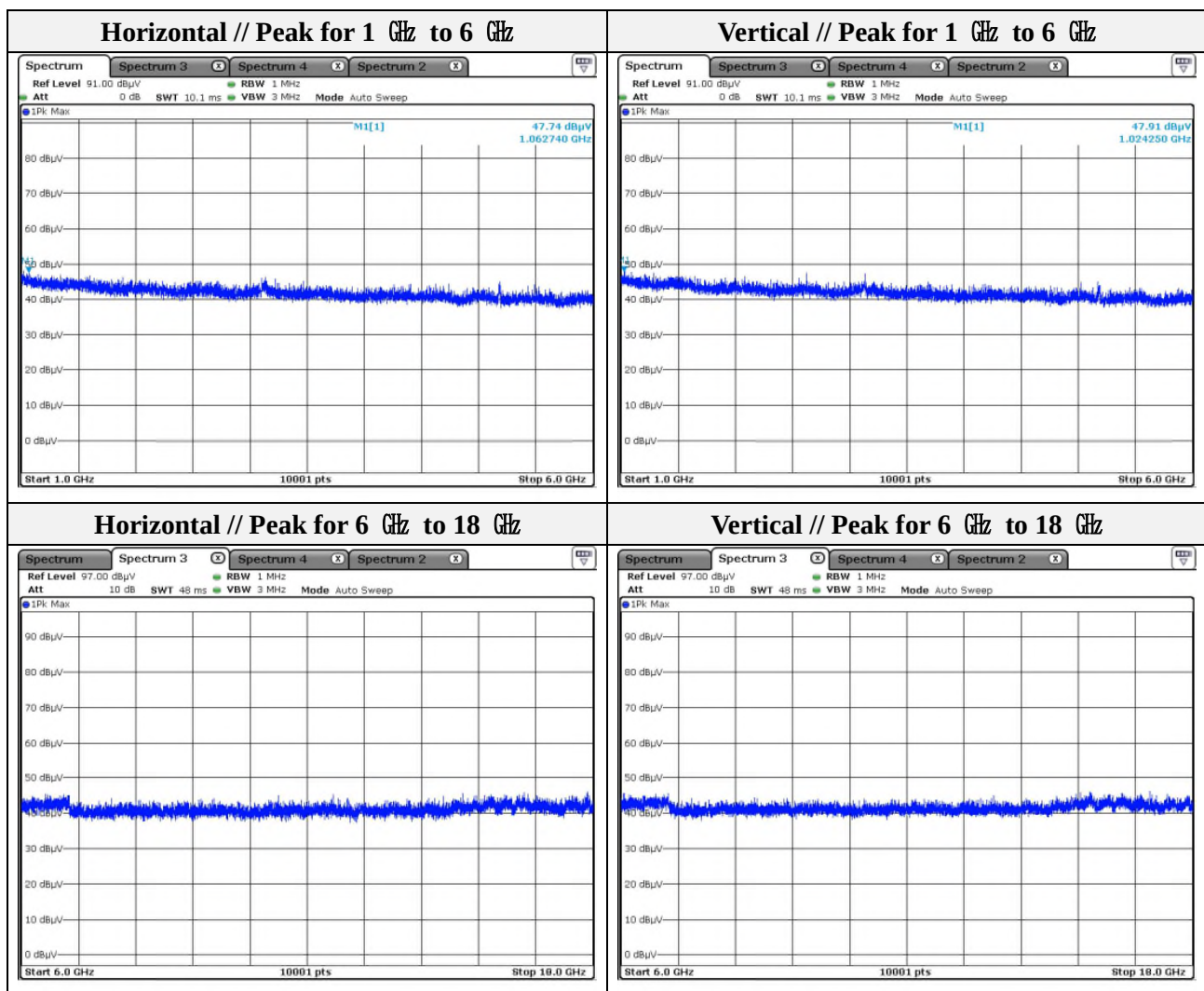
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Mode: UNII-1(HT20)
Distance of measurement: 3 meter
Channel: 44
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1062.74	47.74	Peak	H	-11.30	-	36.44	74.00	37.56
1024.25	47.91	Peak	V	-11.31	-	36.60	74.00	37.40



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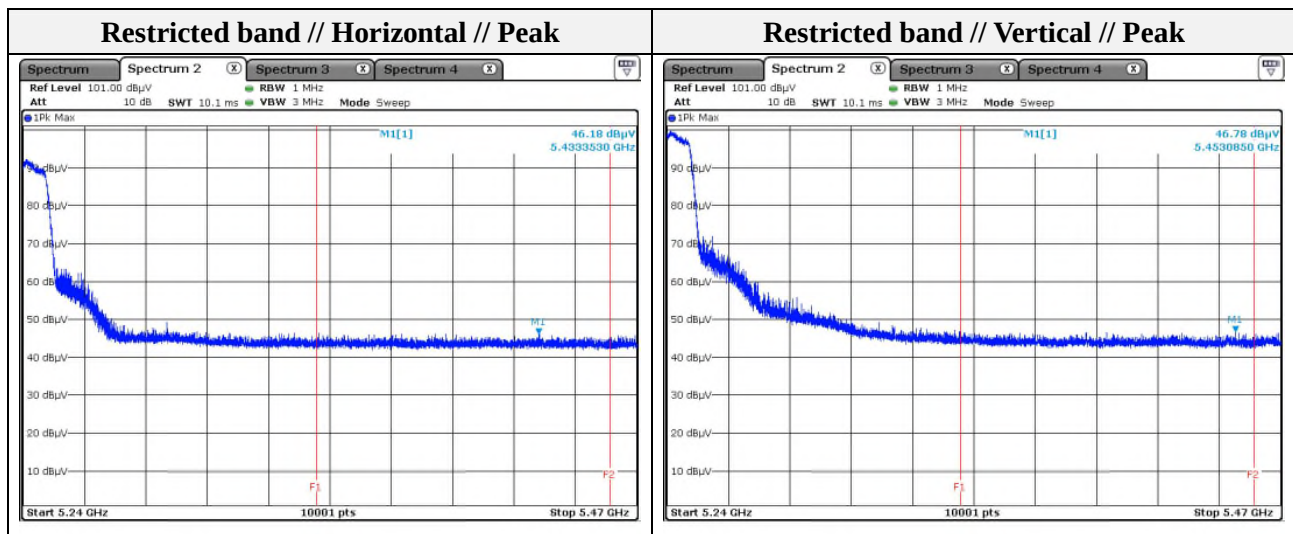
Mode: UNII-1(HT20)
Distance of measurement: 3 meter
Channel: 48
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1012.75	47.68	Peak	H	-11.31	-	36.37	74.00	37.63
1035.75	47.69	Peak	V	-11.31	-	36.38	74.00	37.62

- Band edge

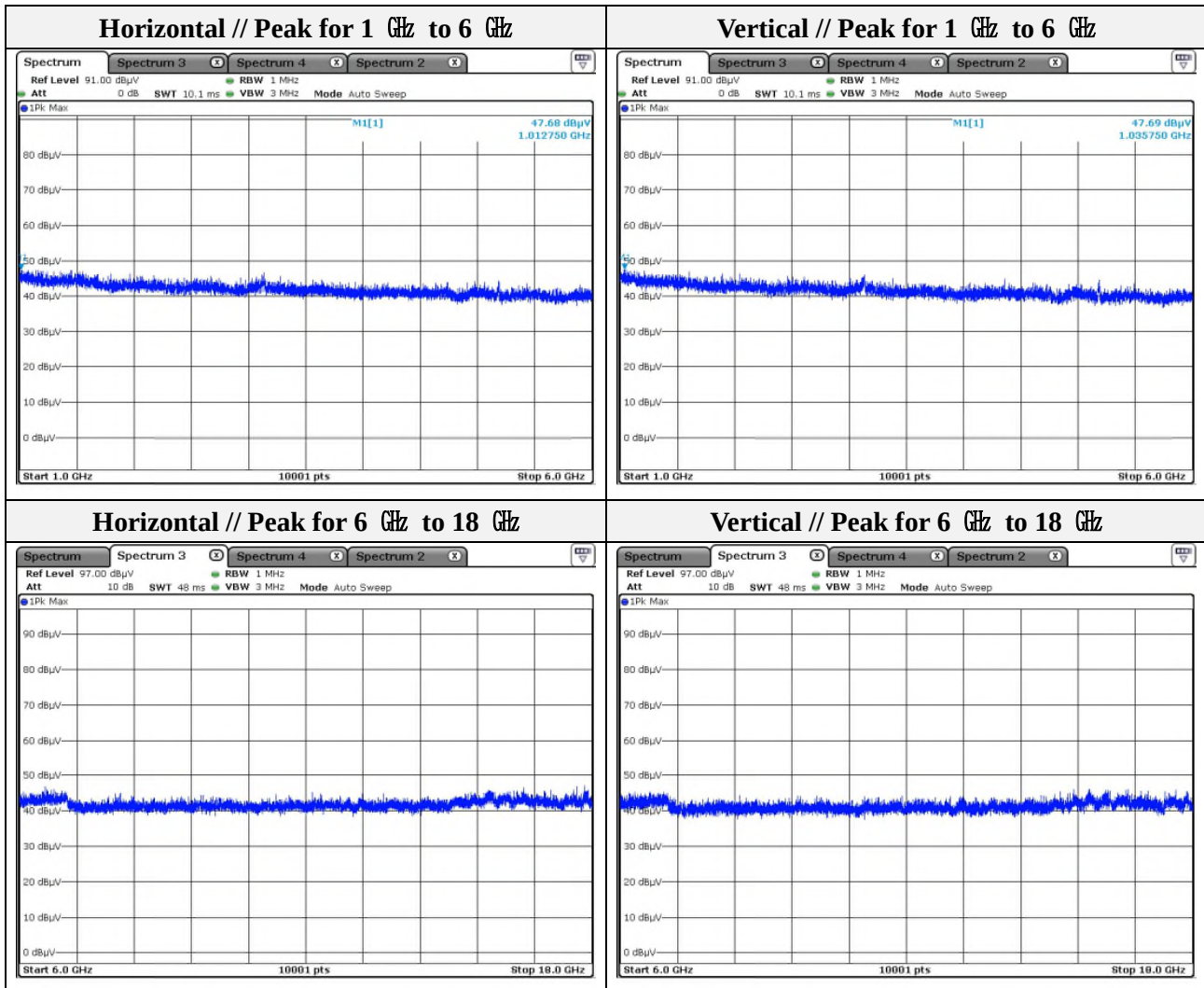
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5433.35	46.18	Peak	H	2.82	-	49.00	74.00	25.00
5453.09	46.78	Peak	V	2.72	-	49.50	74.00	24.50



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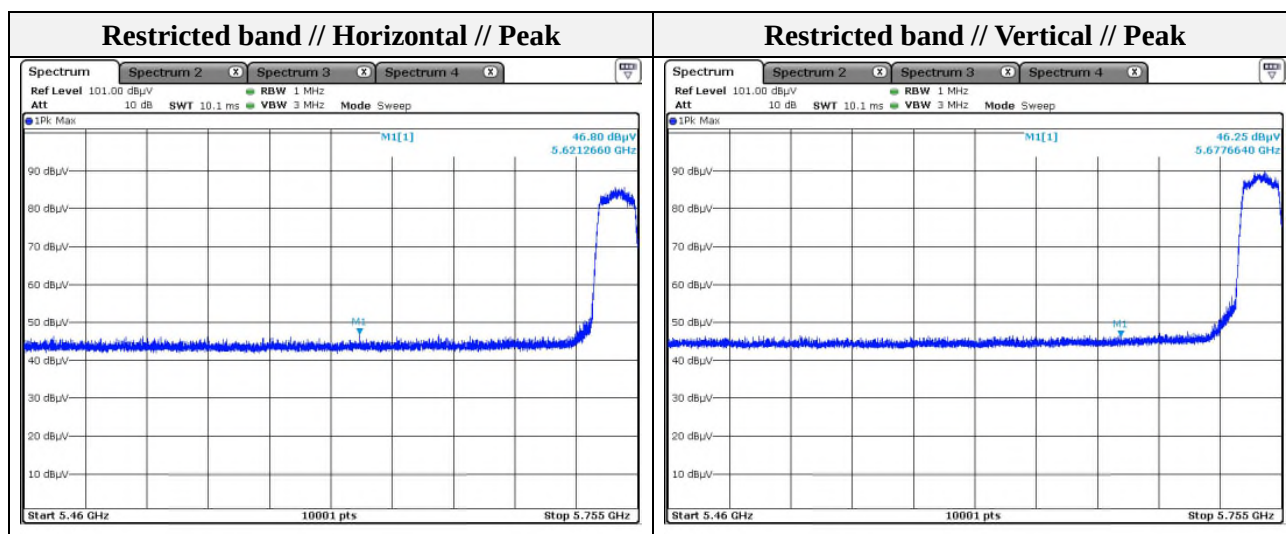
Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 149
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1075.74	48.35	Peak	H	-11.29	-	37.06	74.00	36.94
1001.75	48.44	Peak	V	-11.32	-	37.12	74.00	36.88

- Band edge

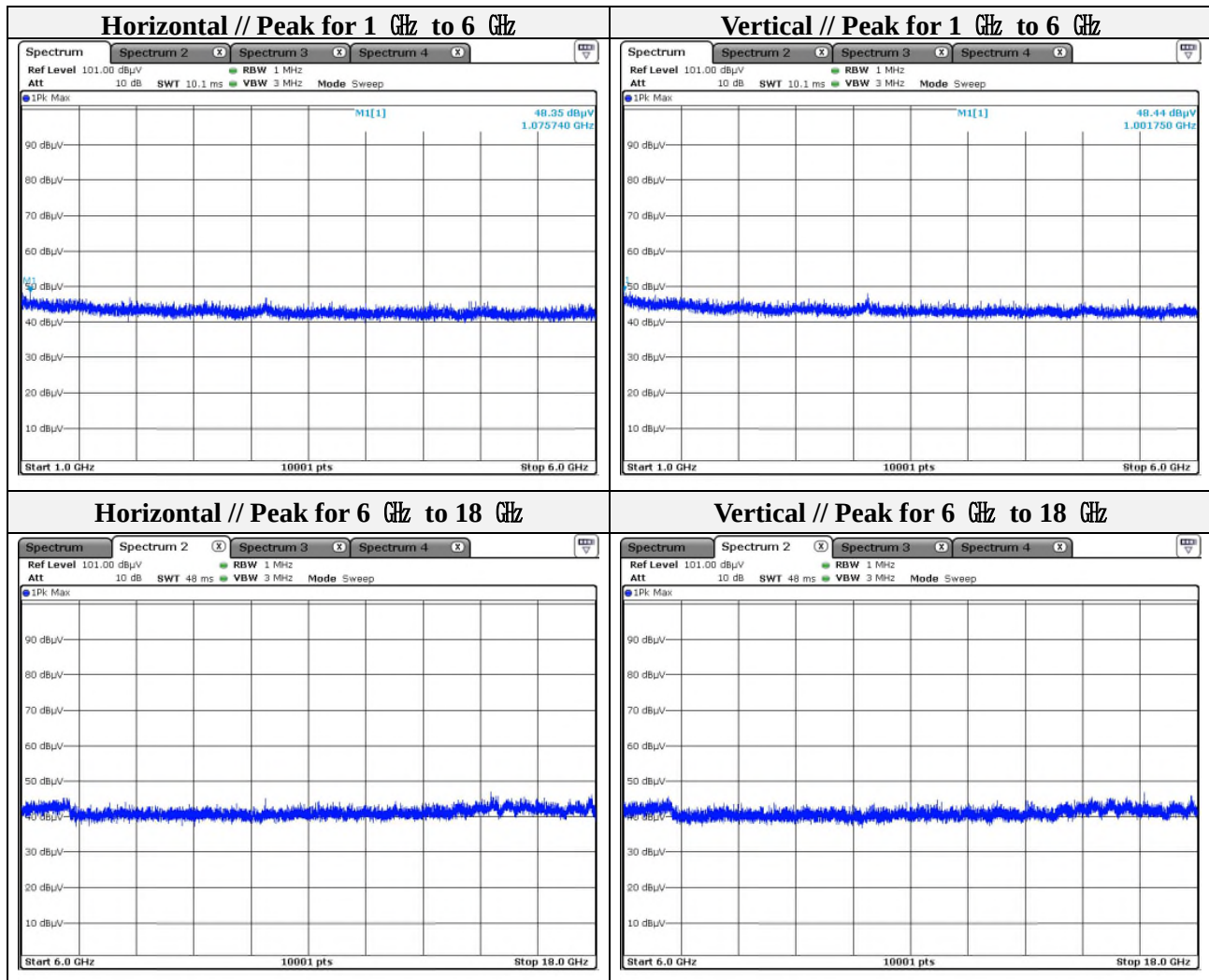
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5621.27	46.80	Peak	H	5.45	-	52.25	68.20	15.95
5677.66	46.25	Peak	V	5.99	-	52.24	88.67	36.43



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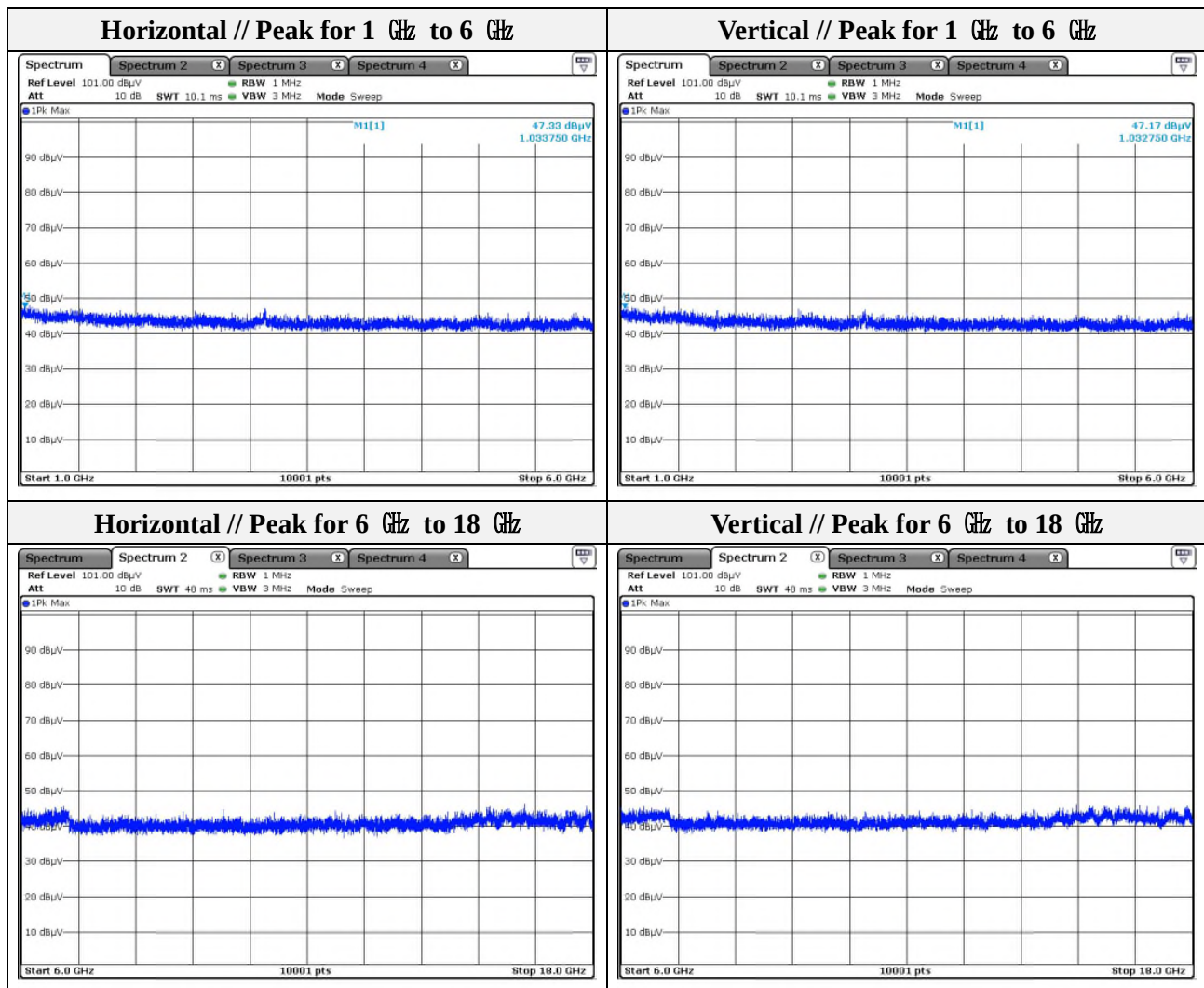
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Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 157
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1033.75	47.33	Peak	H	-11.31	-	36.02	74.00	37.98
1032.75	47.17	Peak	V	-11.31	-	35.86	74.00	38.14



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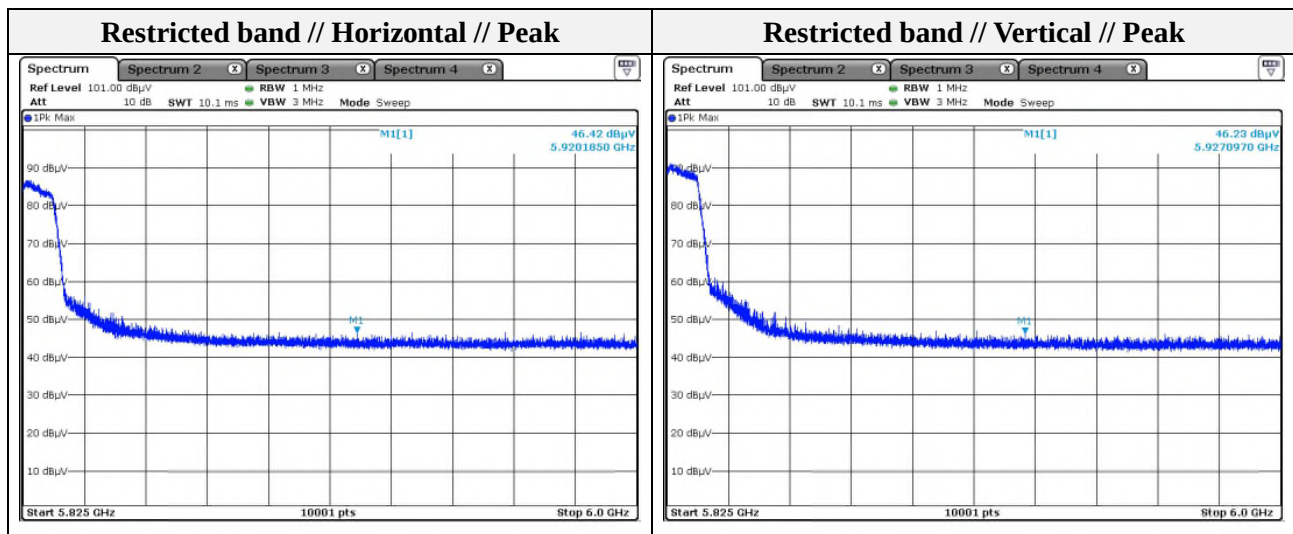
Mode: UNII-3(HT20)
Distance of measurement: 3 meter
Channel: 165
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1007.75	48.11	Peak	H	-11.31	-	36.80	74.00	37.20
1002.25	48.07	Peak	V	-11.32	-	36.75	74.00	37.25

- Band edge

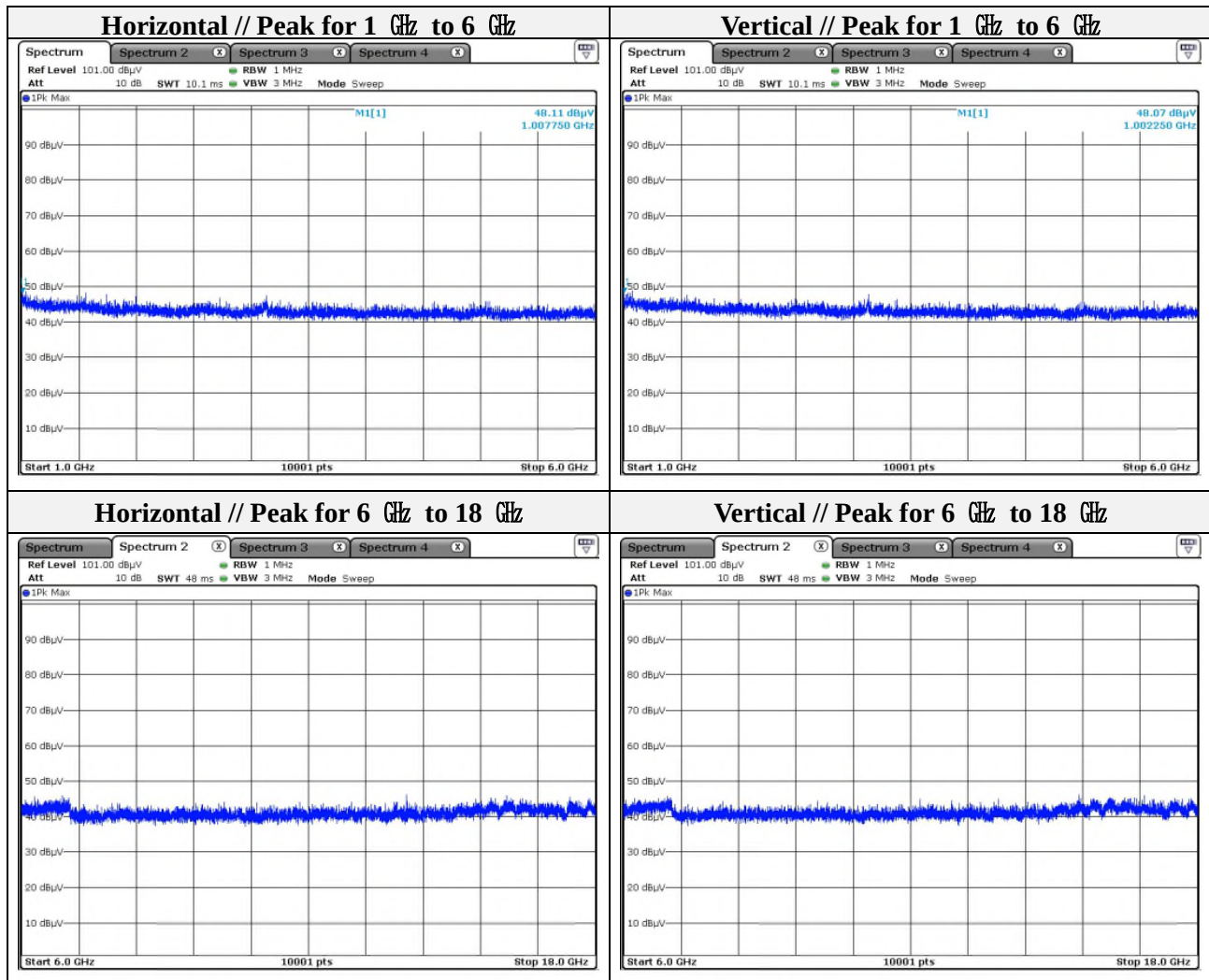
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5920.19	46.42	Peak	H	7.89	-	54.31	68.20	13.89
5927.10	46.23	Peak	V	7.93	-	54.16	68.20	14.04



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Mode: UNII-1(VHT40)

Distance of measurement: 3 meter

Channel: 38

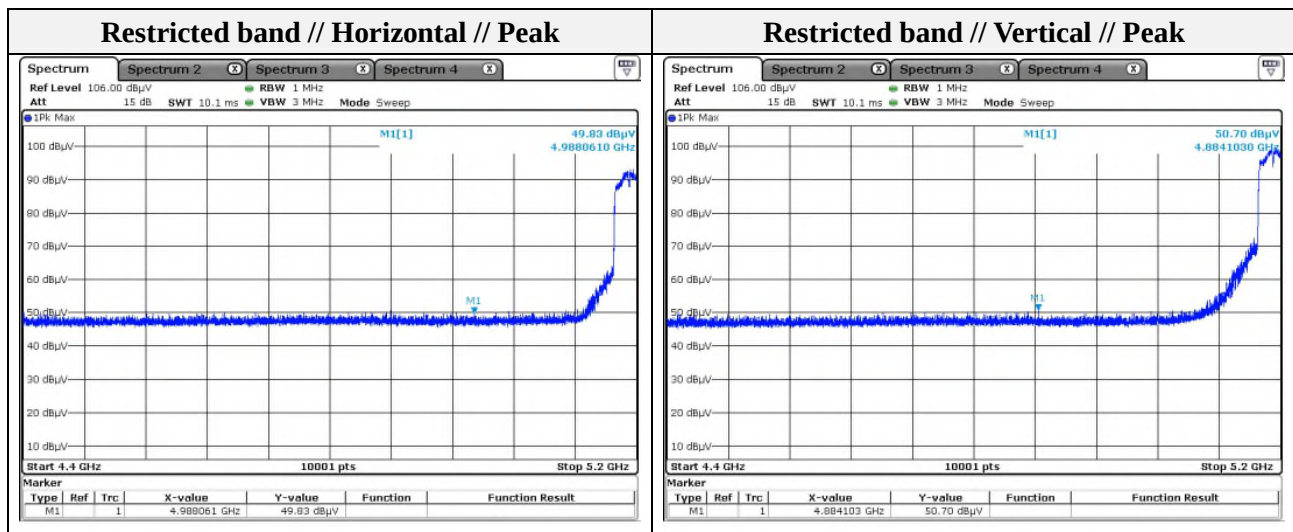
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1241.23	48.18	Peak	H	-11.23	-	36.95	74.00	37.05
3131.59	47.35	Peak	H	-1.85	-	45.50	68.20	22.70
1268.72	48.08	Peak	V	-11.22	-	36.86	74.00	37.14
3131.59	47.91	Peak	V	-1.85	-	46.06	68.20	22.14

- Band edge

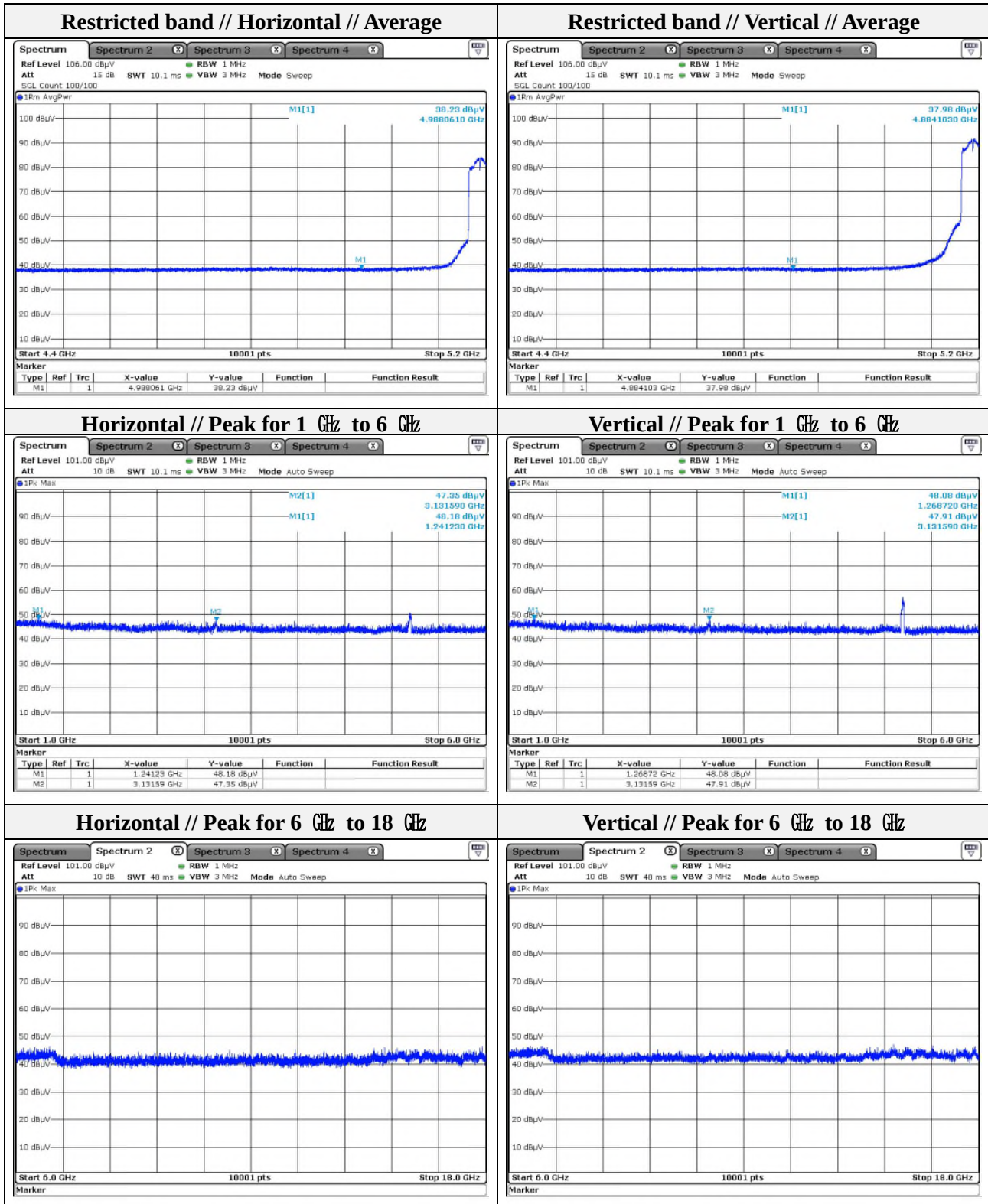
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4988.06	49.83	Peak	H	4.85	-	54.68	74.00	19.32
4988.06	38.23	Average	H	4.85	-	43.08	54.00	10.92
4884.10	50.70	Peak	V	4.05	-	54.75	74.00	19.25
4884.10	37.98	Average	V	4.05	-	42.03	54.00	11.97



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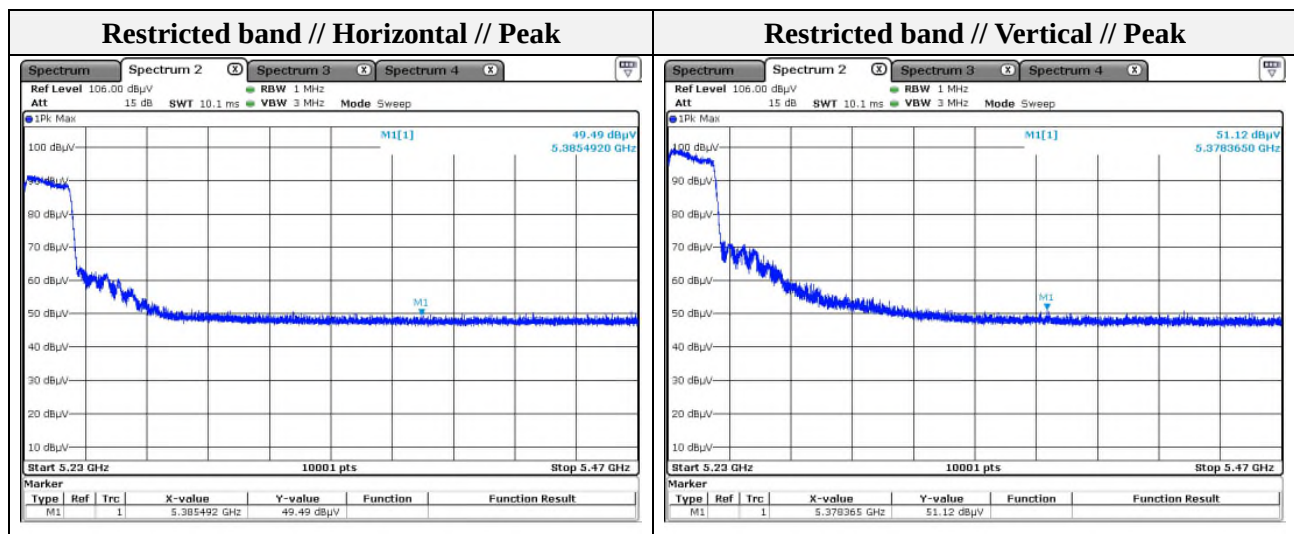
Mode: UNII-1(HT40)
Distance of measurement: 3 meter
Channel: 46
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1274.22	47.89	Peak	H	-11.22	-	36.67	74.00	37.33
3130.09	47.57	Peak	H	-1.86	-	45.71	68.20	22.49

- Band edge

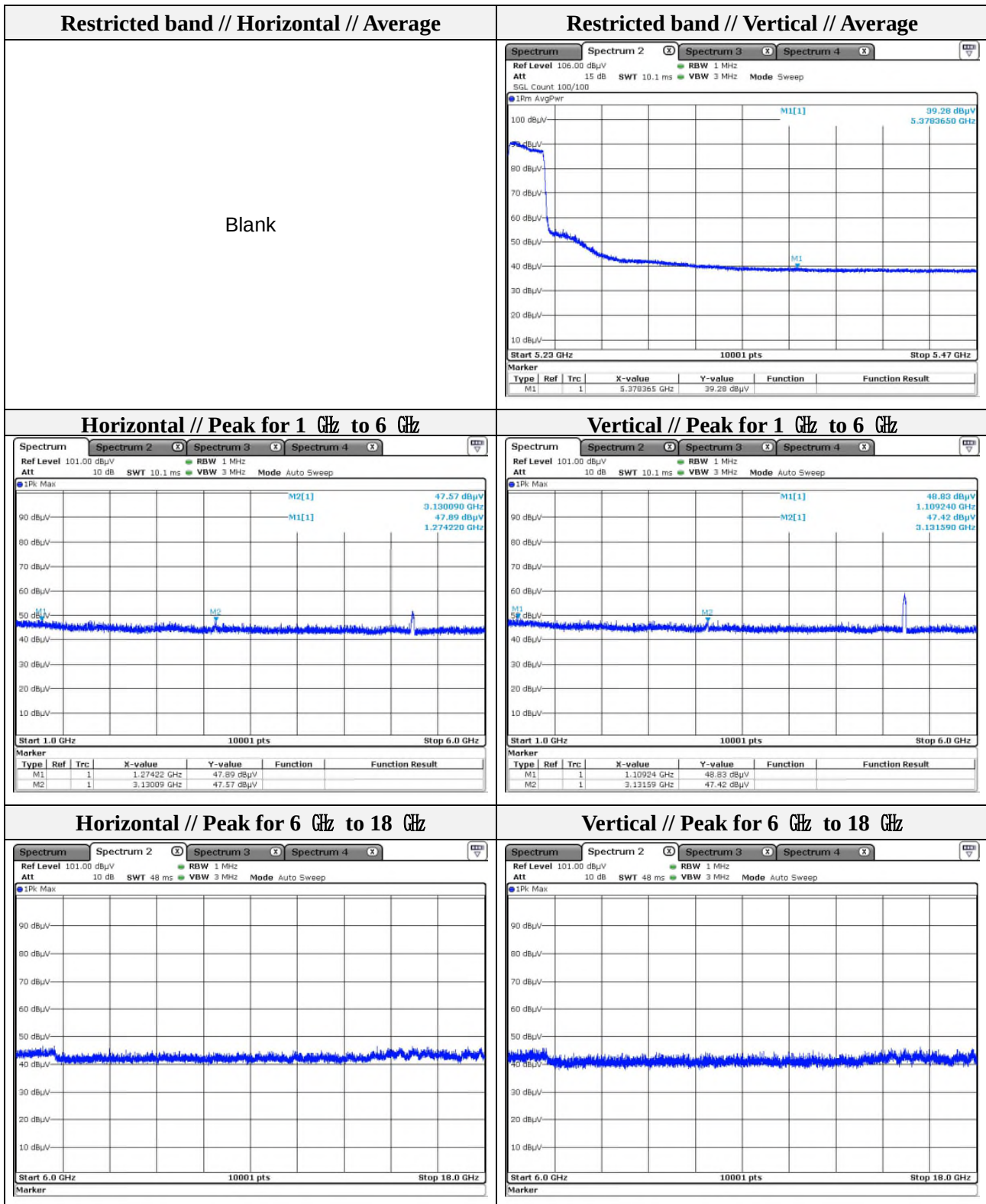
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5385.49	49.49	Peak	H	3.02	-	52.51	74.00	21.49
5378.37	51.12	Peak	V	3.05	-	54.17	74.00	19.83
5378.37	39.28	Average	V	3.05	-	42.33	54.00	11.67



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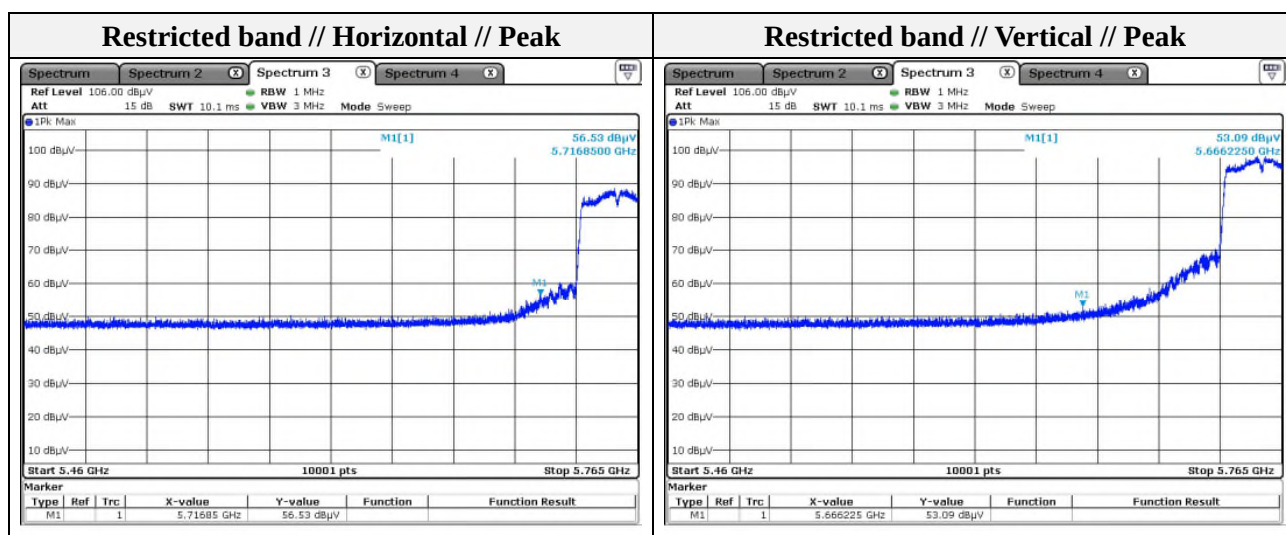
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 151
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1278.72	47.86	Peak	H	-11.22	-	36.64	74.00	37.36
3128.54	47.71	Peak	H	-1.86	-	45.85	68.20	22.35
1261.22	47.17	Peak	V	-11.23	-	35.94	74.00	38.06
3131.04	48.47	Peak	V	-1.85	-	46.62	68.20	21.58

- Band edge

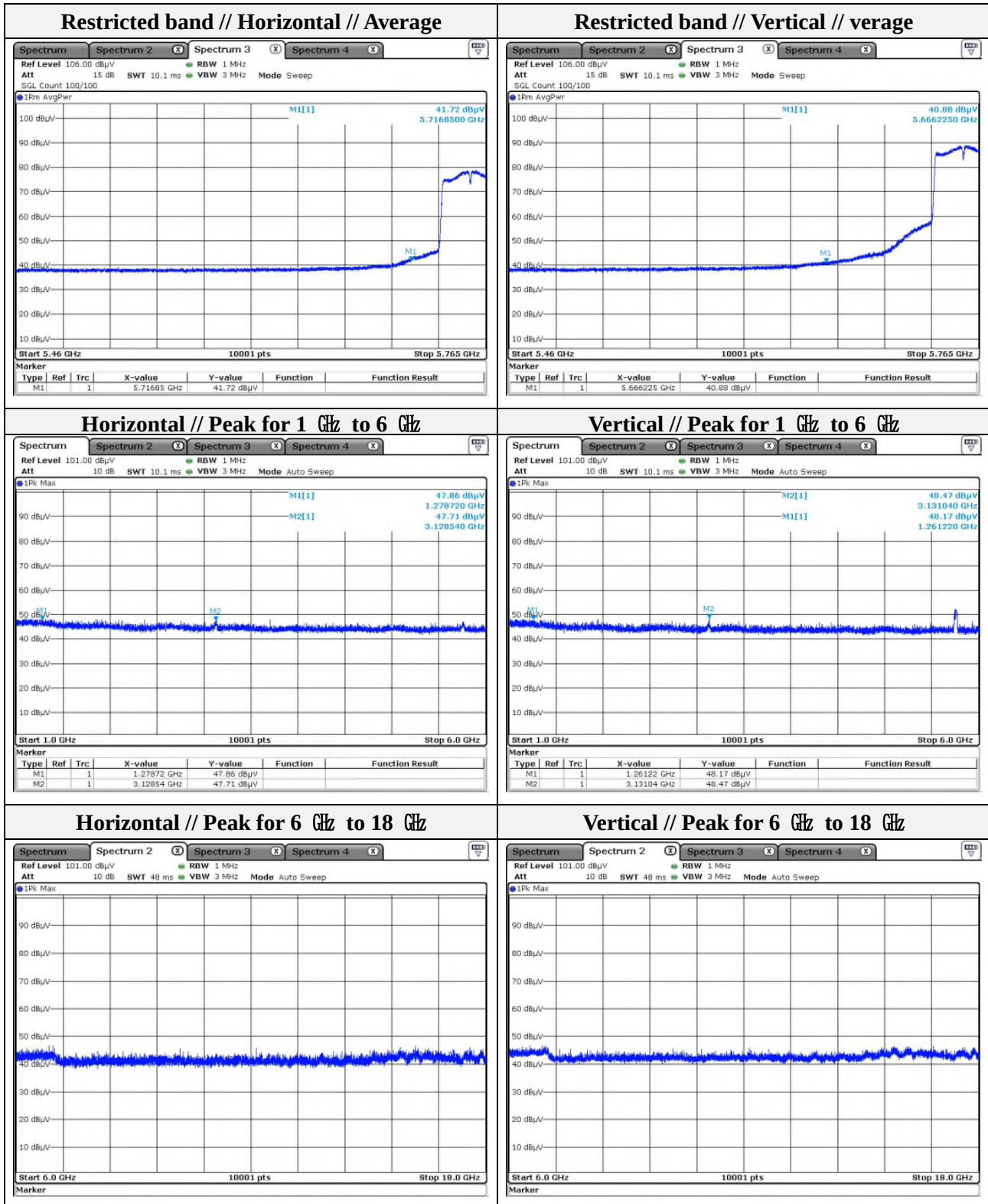
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5716.85	56.53	Peak	H	6.37	-	62.90	109.95	47.05
5716.85	41.72	Average	H	6.37	-	48.09	99.95	51.86
5666.23	53.09	Peak	V	5.89	-	58.98	80.24	21.26
5666.23	40.88	Average	V	5.89	-	46.77	70.24	23.47



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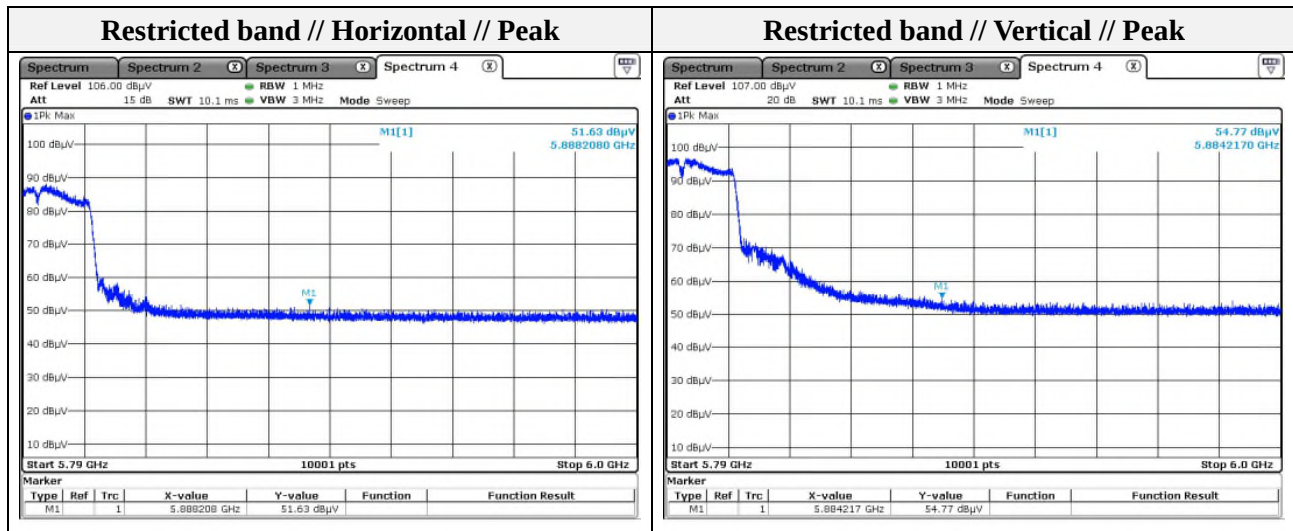
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 159
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1288.72	47.38	Peak	H	-11.21	-	36.17	74.00	37.83
3132.54	48.73	Peak	H	-1.85	-	46.88	68.20	21.32
1889.16	47.89	Peak	V	-3.19	-	44.70	74.00	29.30
3131.04	46.96	Peak	V	-1.85	-	45.11	68.20	23.09

- Band edge

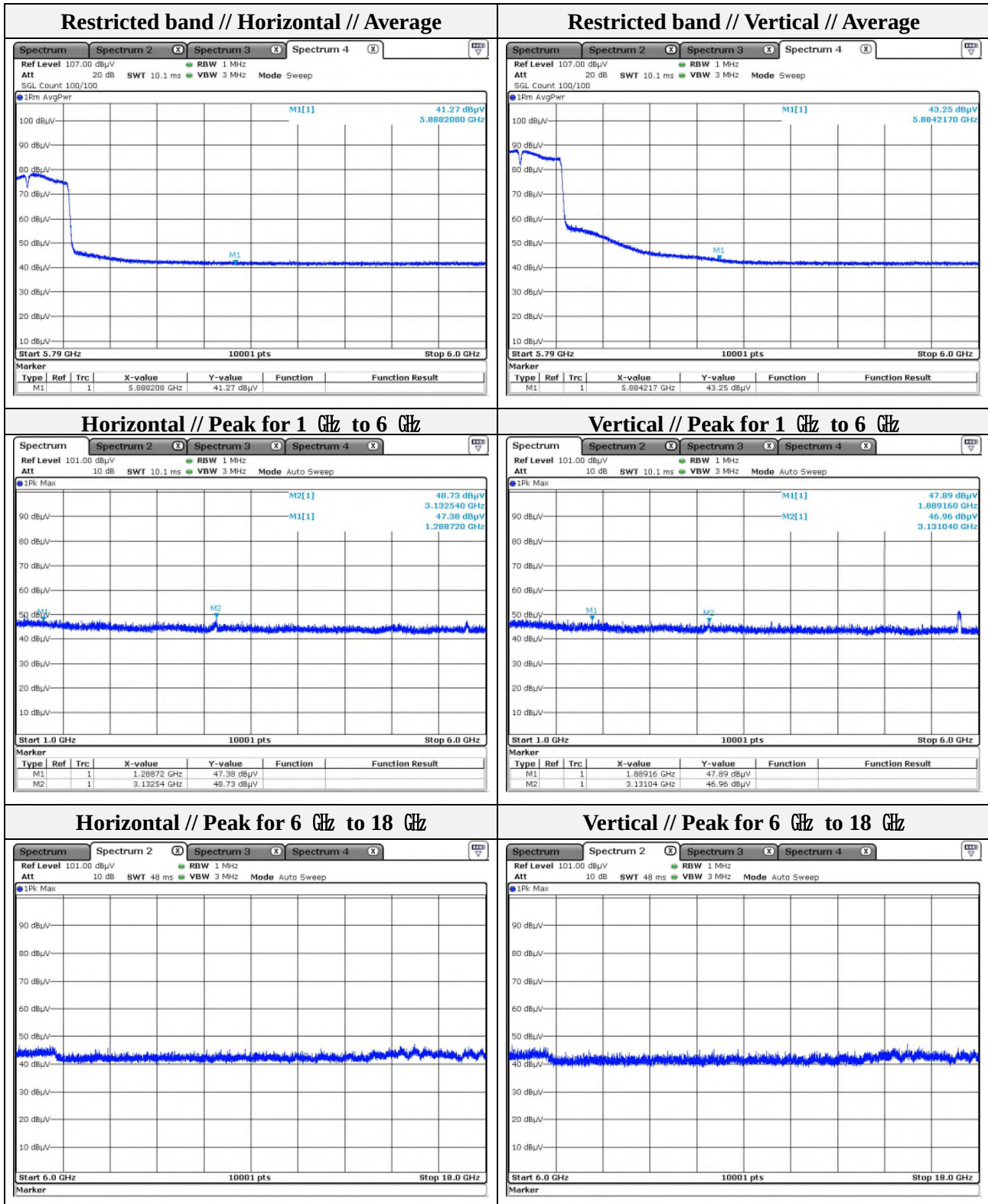
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5888.21	51.63	Peak	H	7.69	-	59.32	81.84	22.52
5888.21	41.27	Average	H	7.69	-	48.96	71.84	22.88
5884.22	54.77	Peak	V	7.67	-	62.44	83.32	20.88
5884.22	43.25	Average	V	7.67	-	50.92	73.32	22.40



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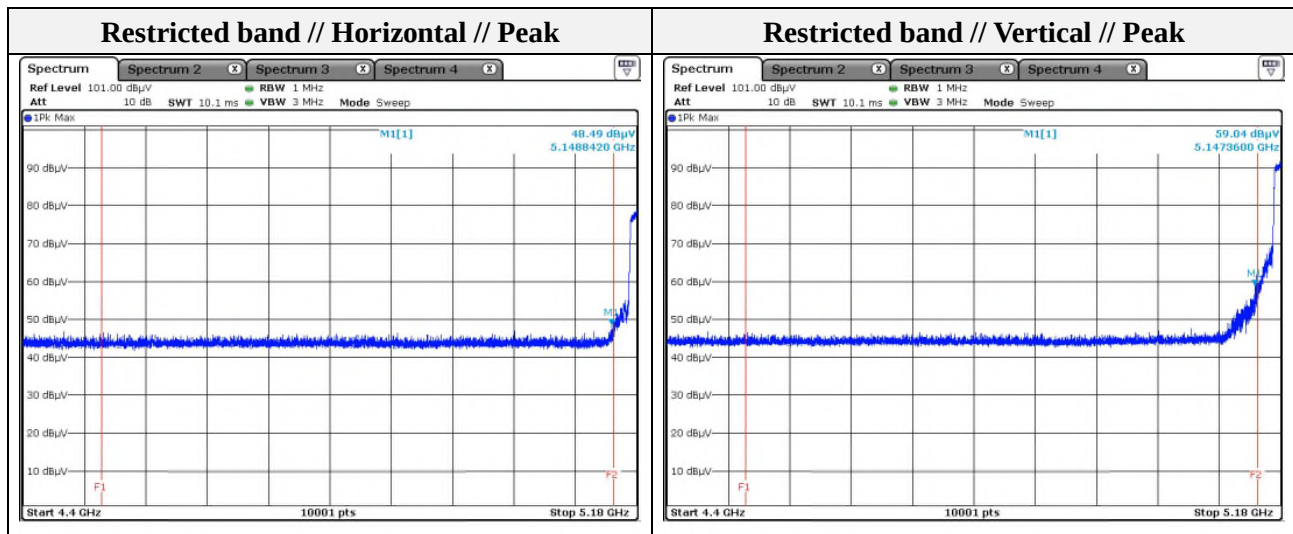
Mode: UNII-1(VHT40)
Distance of measurement: 3 meter
Channel: 38
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1022.75	48.22	Peak	H	-11.31	-	36.91	74.00	37.09
1375.21	50.39	Peak	V	-11.18	-	39.21	74.00	34.79

- Band edge

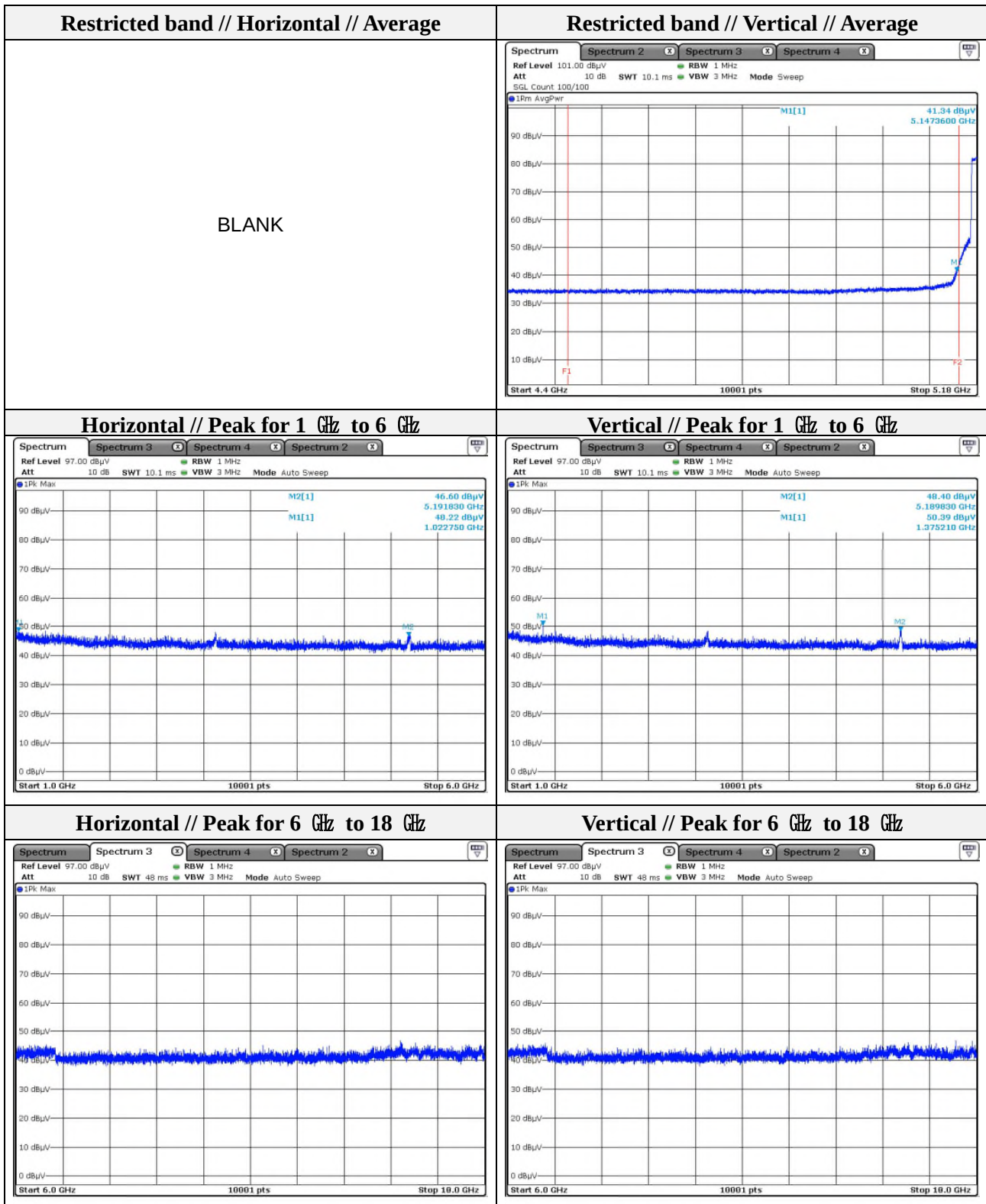
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5148.84	48.49	Peak	H	4.85	-	52.54	74.00	21.46
5147.36	59.04	Peak	V	4.05	-	63.09	74.00	10.91
5147.36	41.34	Average	V	4.85	-	45.39	54.00	8.61



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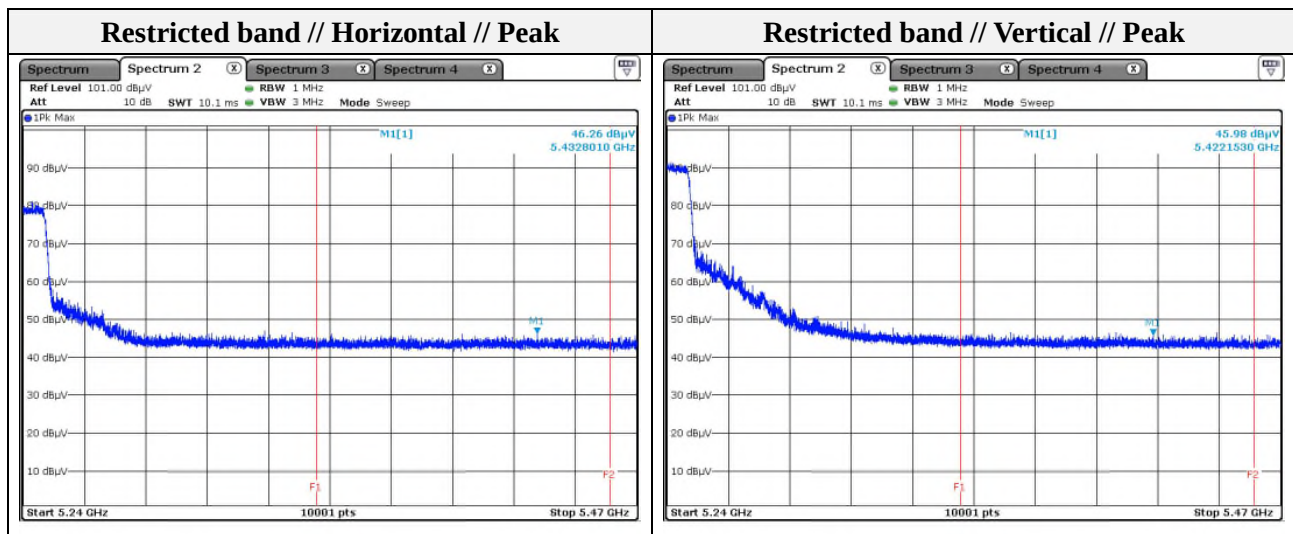
Mode: UNII-1(HT40)
Distance of measurement: 3 meter
Channel: 46
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1000.25	48.99	Peak	H	-11.32	-	37.67	74.00	36.33
1375.21	49.94	Peak	V	-11.18	-	38.76	74.00	35.24

- Band edge

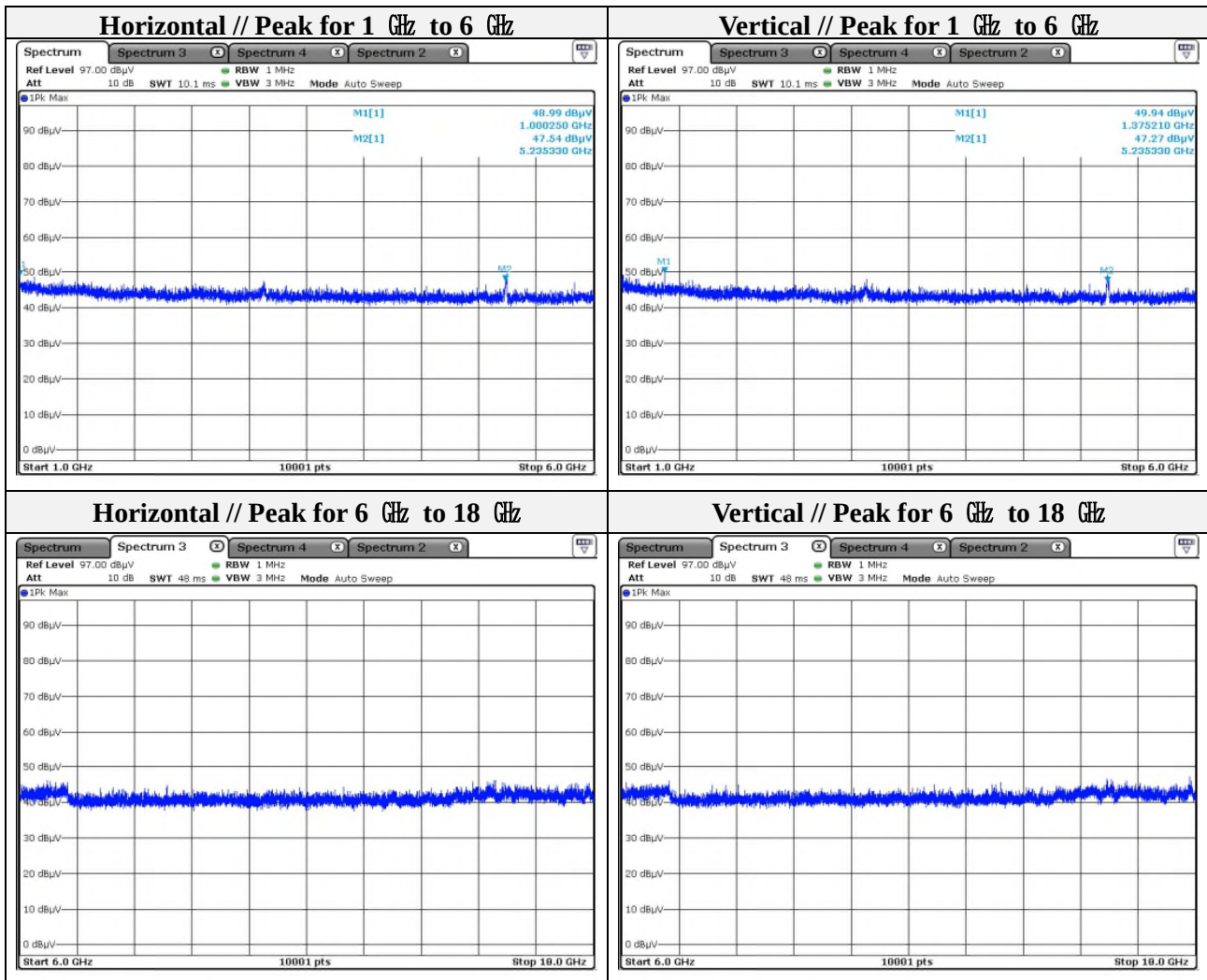
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5432.80	46.26	Peak	H	2.82	-	49.08	74.00	24.92
5422.15	45.98	Peak	V	2.87	-	48.85	74.00	25.15



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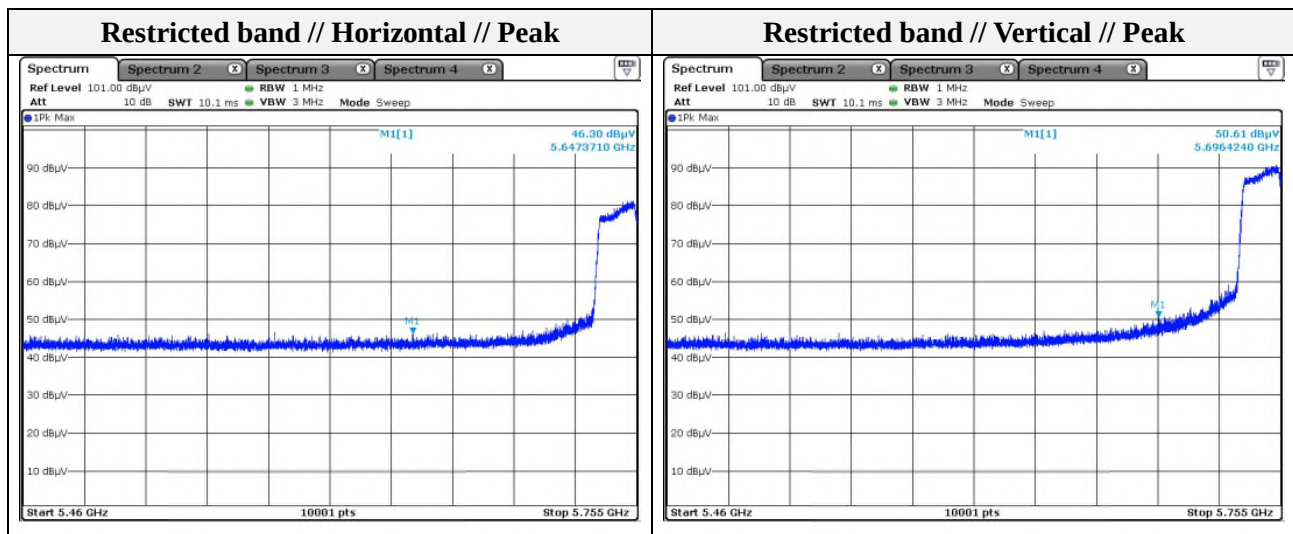
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 151
ANT #2: PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1104.24	48.94	Peak	H	-11.28	-	37.66	74.00	36.34
1059.24	48.49	Peak	V	-11.30	-	37.19	74.00	36.81

- Band edge

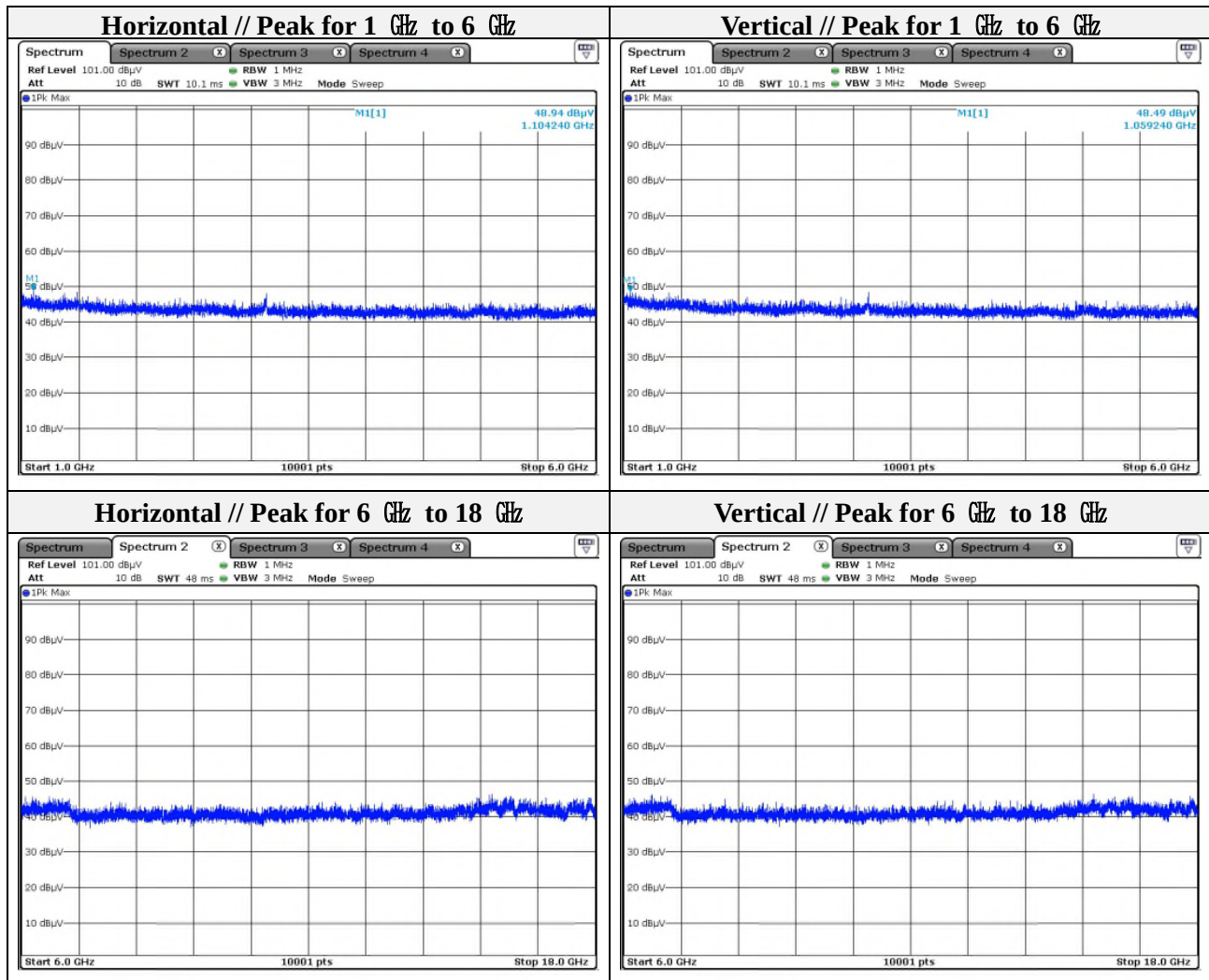
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5647.37	46.30	Peak	H	5.70	-	52.00	68.20	16.20
5696.42	50.61	Peak	V	6.17	-	56.78	102.55	45.77



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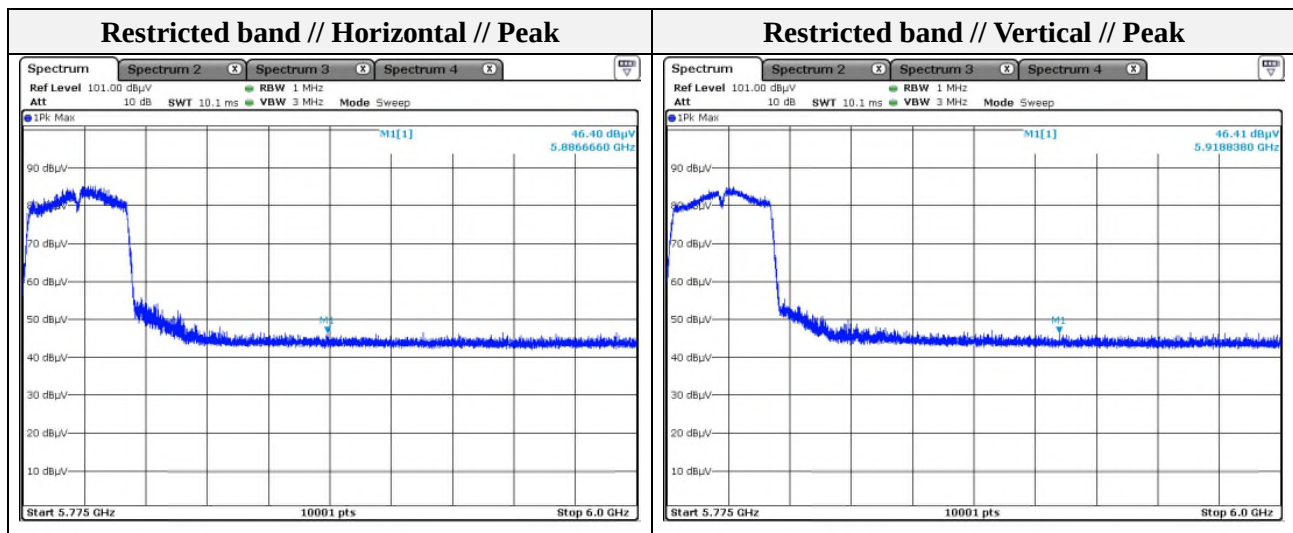
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 159
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1019.25	47.71	Peak	H	-11.32	-	36.39	74.00	37.61
1037.25	47.85	Peak	V	-11.31	-	36.54	74.00	37.46

- Band edge

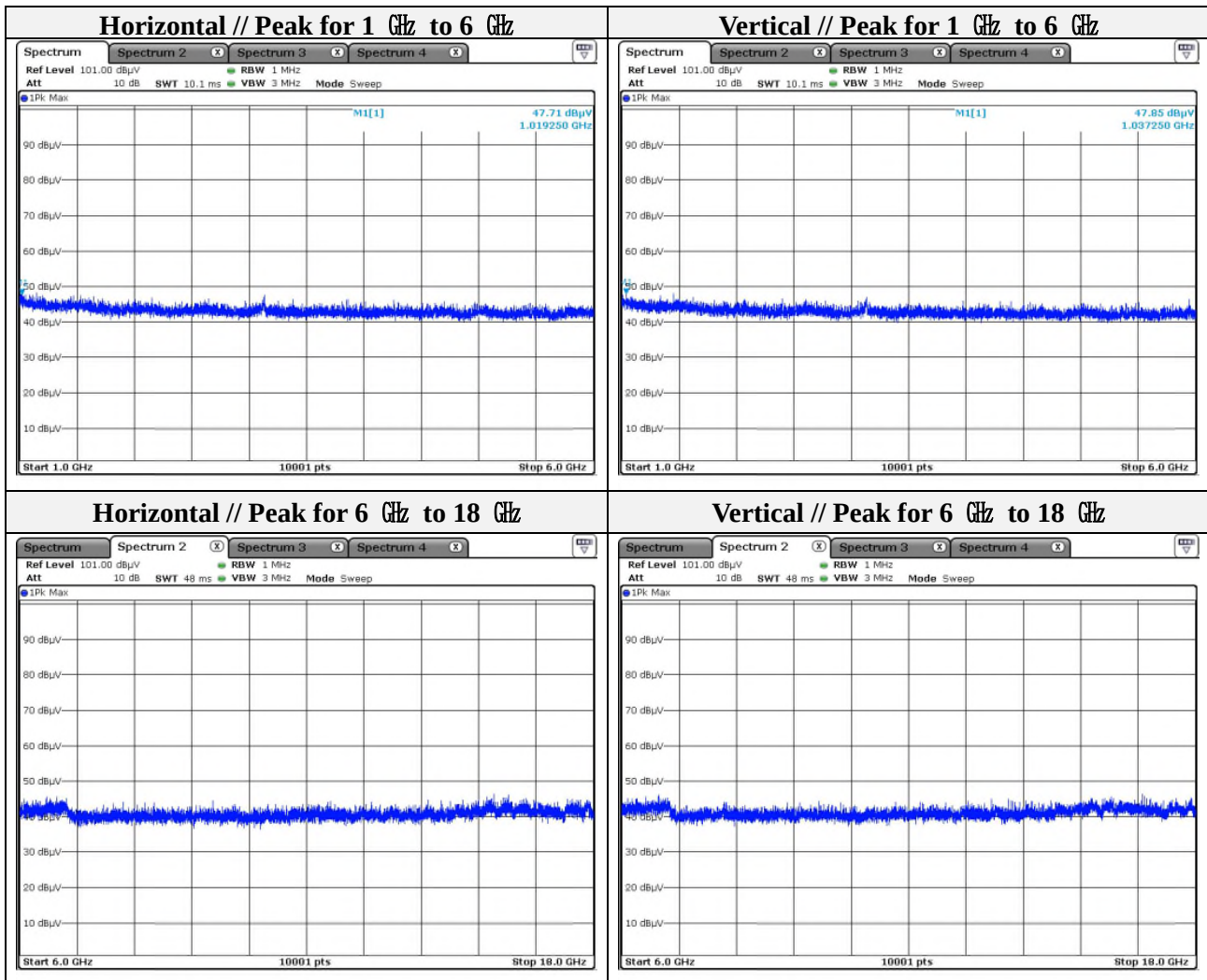
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5886.67	46.40	Peak	H	7.69	-	54.09	95.60	41.51
5918.84	46.41	Peak	V	7.89	-	54.30	69.15	14.85



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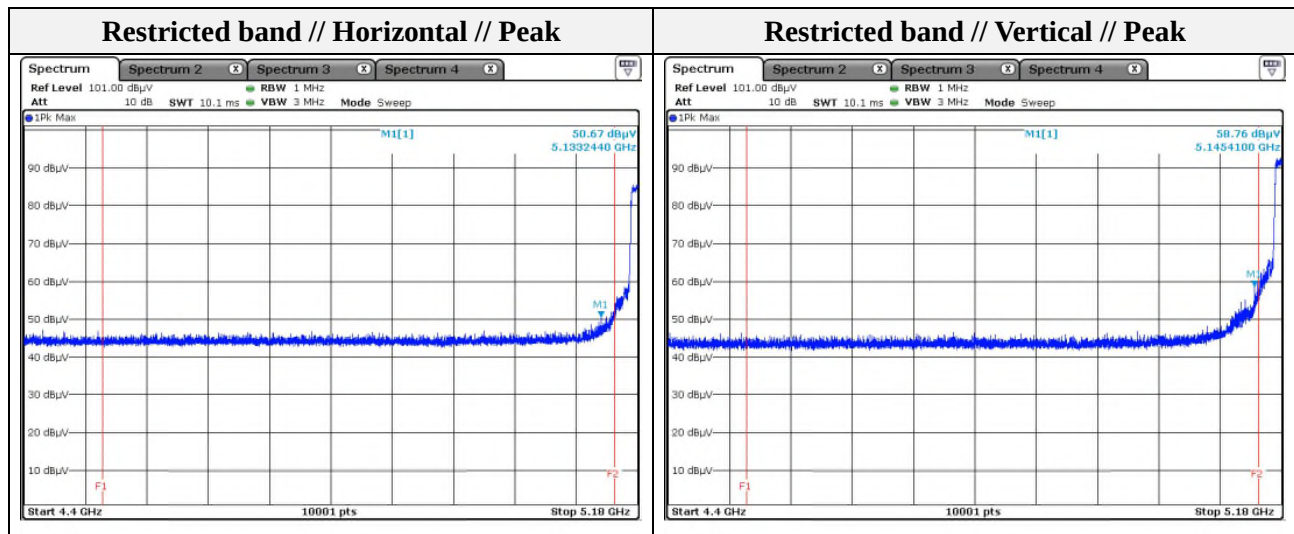
Mode: UNII-1(VHT40)
Distance of measurement: 3 meter
Channel: 38
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1018.25	49.26	Peak	H	-11.31	-	37.95	74.00	36.05
1073.74	48.90	Peak	V	-11.30	-	37.60	74.00	36.40

- Band edge

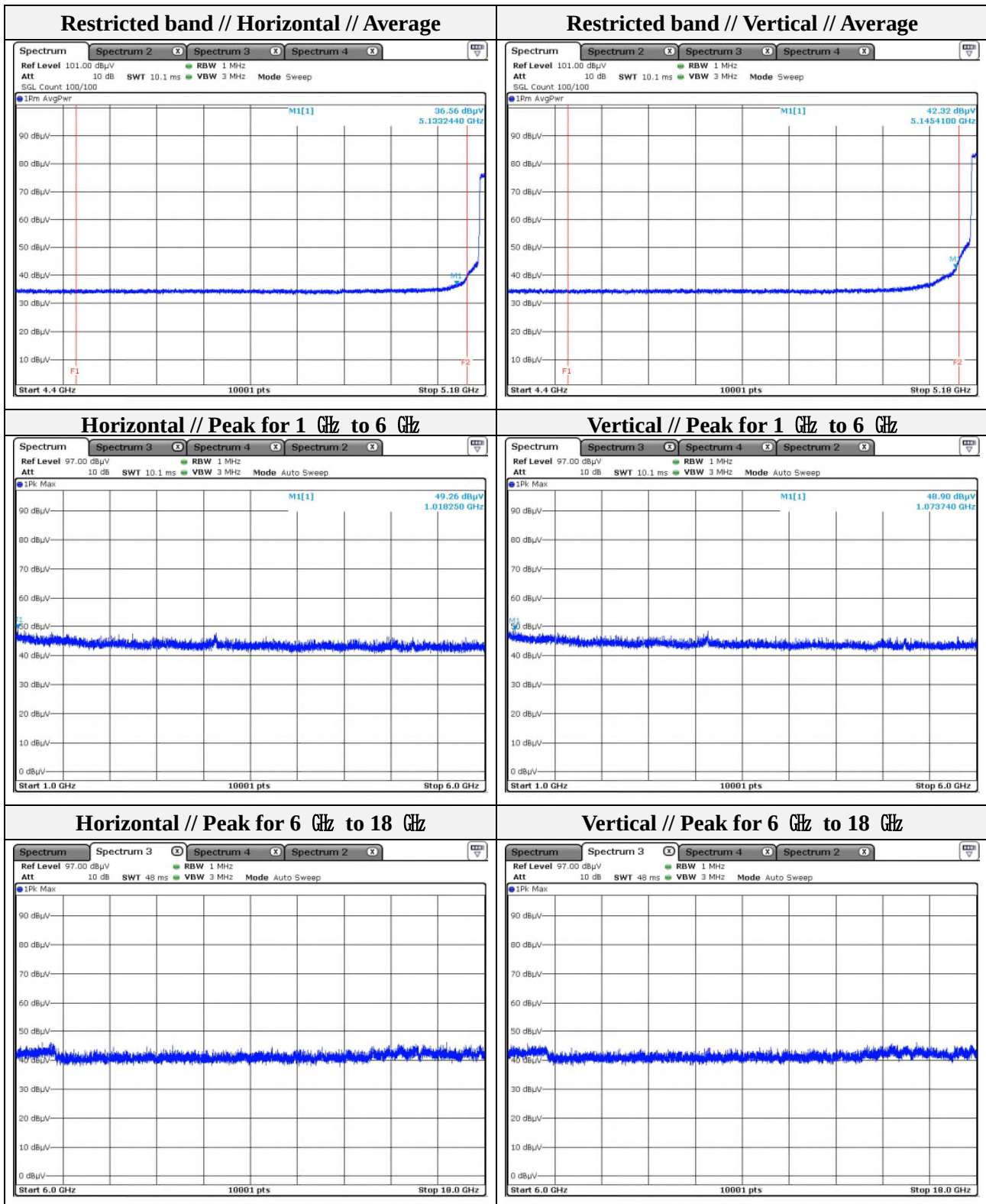
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5133.24	50.67	Peak	H	4.14	-	54.81	74.00	19.19
5133.24	36.56	Average	H	4.14	-	40.70	54.00	13.30
5145.41	58.76	Peak	V	4.07	-	62.83	74.00	11.17
5145.41	42.32	Average	V	4.07	-	46.39	54.00	7.61



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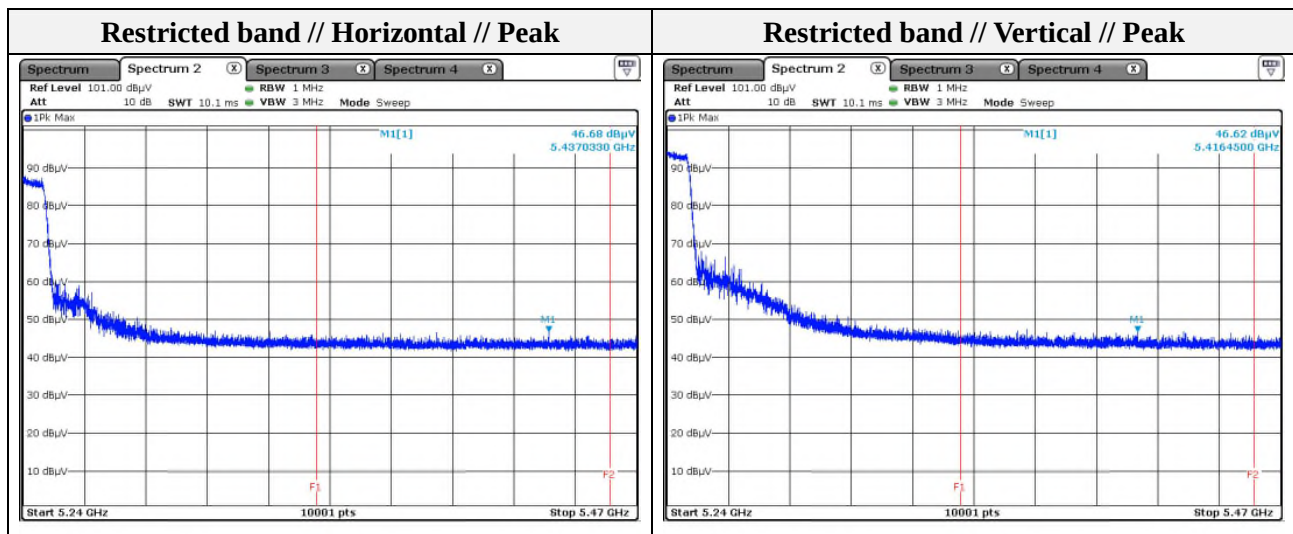
Mode: UNII-1(HT40)
Distance of measurement: 3 meter
Channel: 46
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1013.75	49.32	Peak	H	-11.32	-	38.00	74.00	36.00
1051.24	48.54	Peak	V	-11.30	-	37.24	74.00	36.76

- Band edge

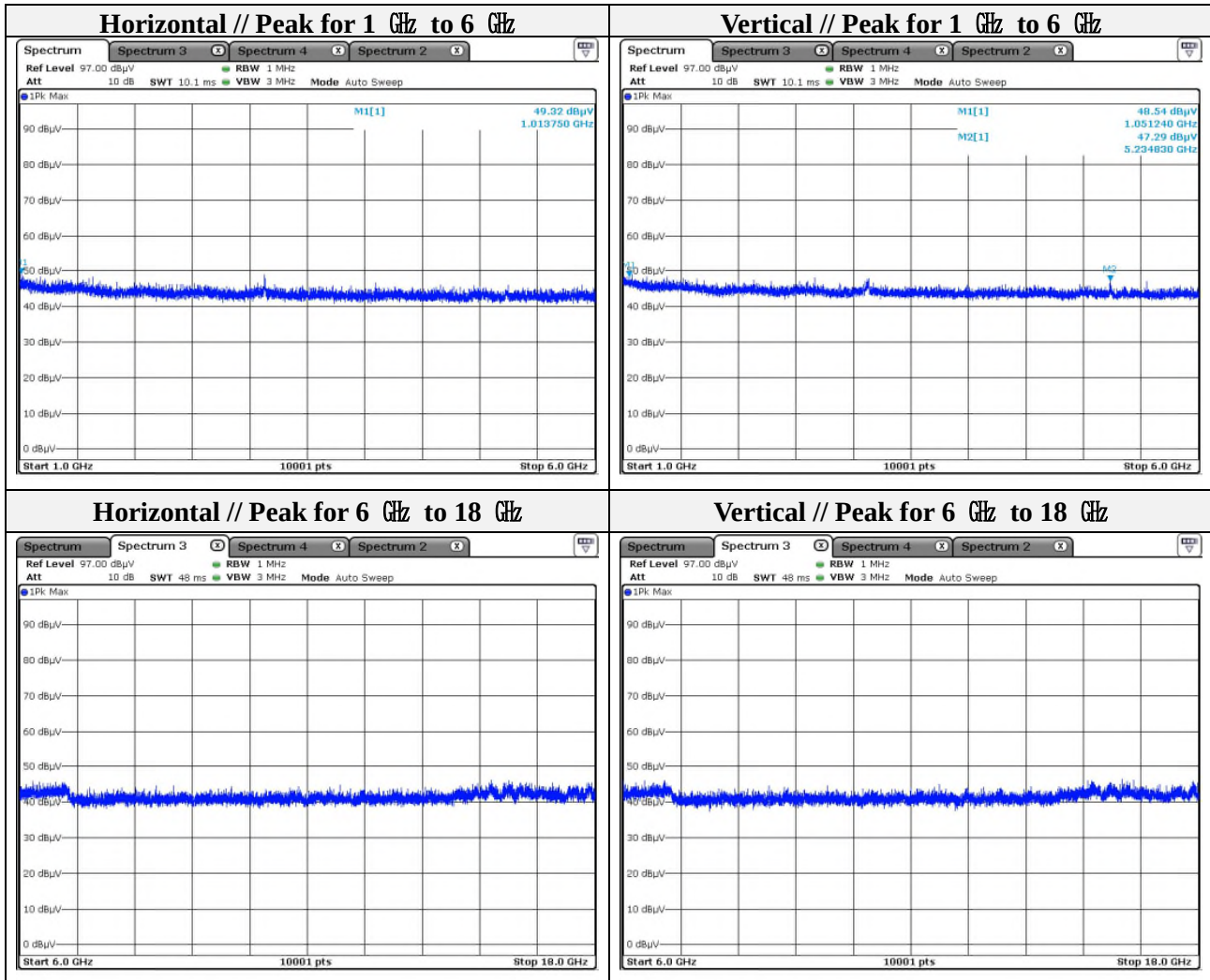
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5437.03	46.68	Peak	H	2.80	-	49.48	74.00	24.52
5416.45	46.62	Peak	V	2.89	-	49.51	74.00	24.49



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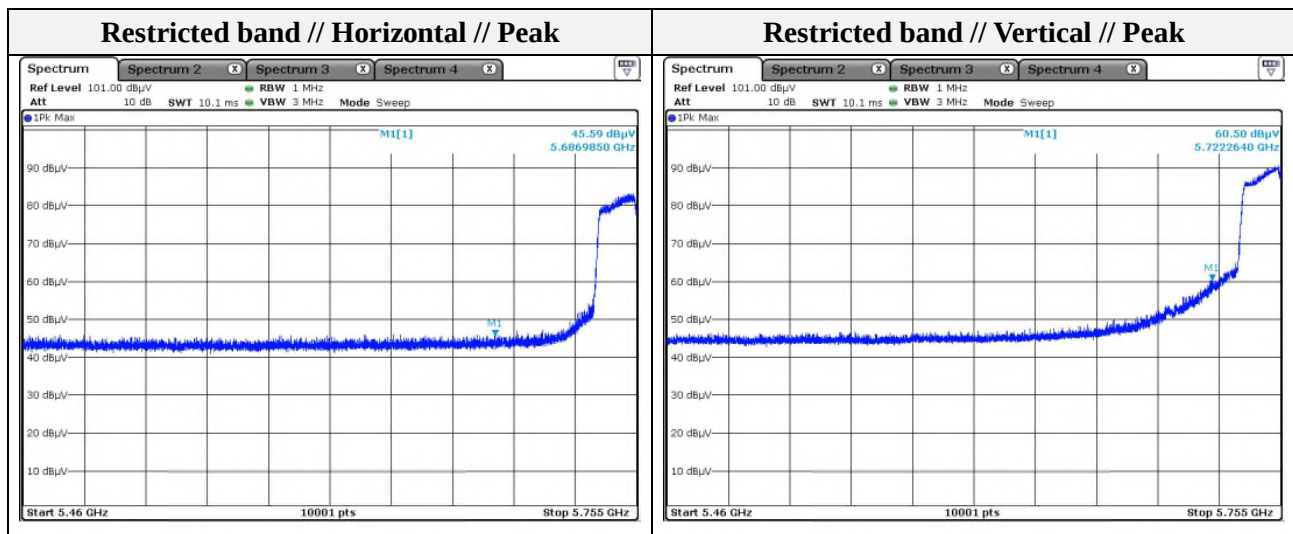
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 151
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1336.22	47.62	Peak	H	-11.20	-	36.42	74.00	37.58
1001.75	47.77	Peak	V	-11.32	-	36.45	74.00	37.55

- Band edge

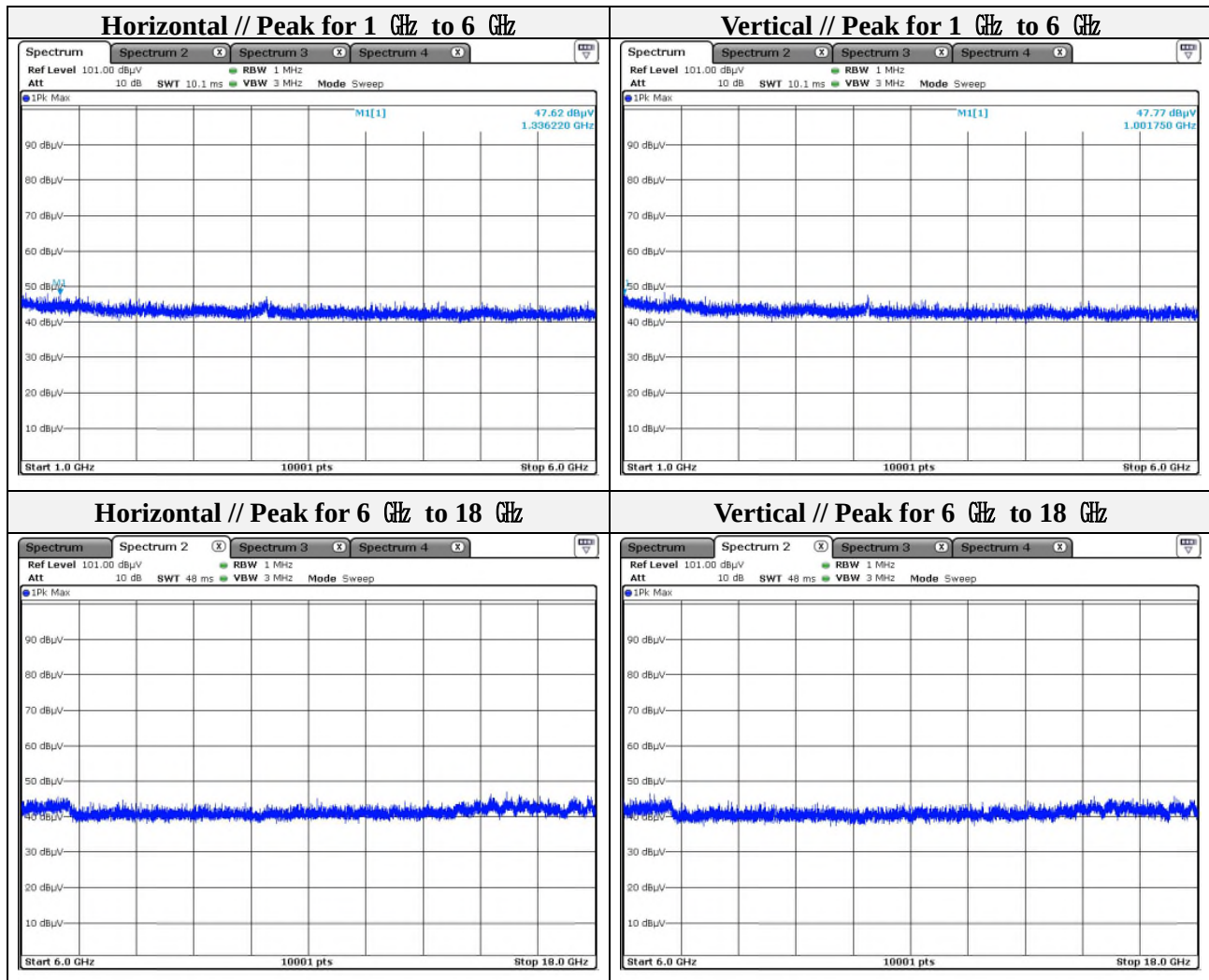
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5686.99	45.59	Peak	H	6.08	-	51.67	95.57	43.90
5722.26	60.50	Peak	V	6.42	-	66.92	115.95	49.03



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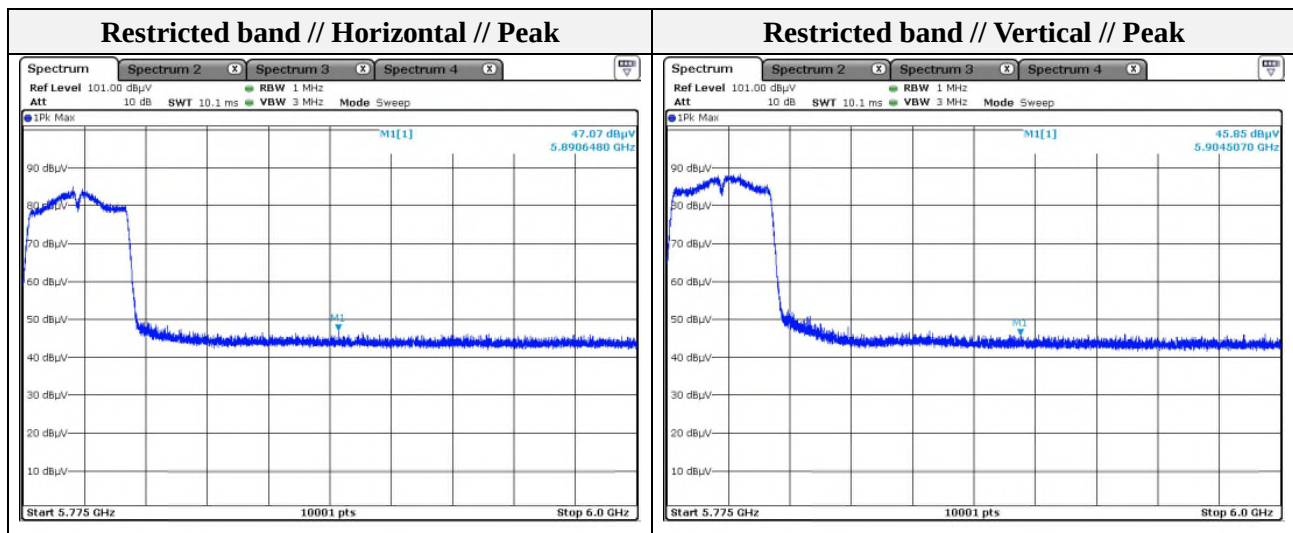
Mode: UNII-3(HT40)
Distance of measurement: 3 meter
Channel: 159
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1182.73	47.87	Peak	H	-11.26	-	36.61	74.00	37.39
1562.69	48.32	Peak	V	-8.09	-	40.23	74.00	33.77

- Band edge

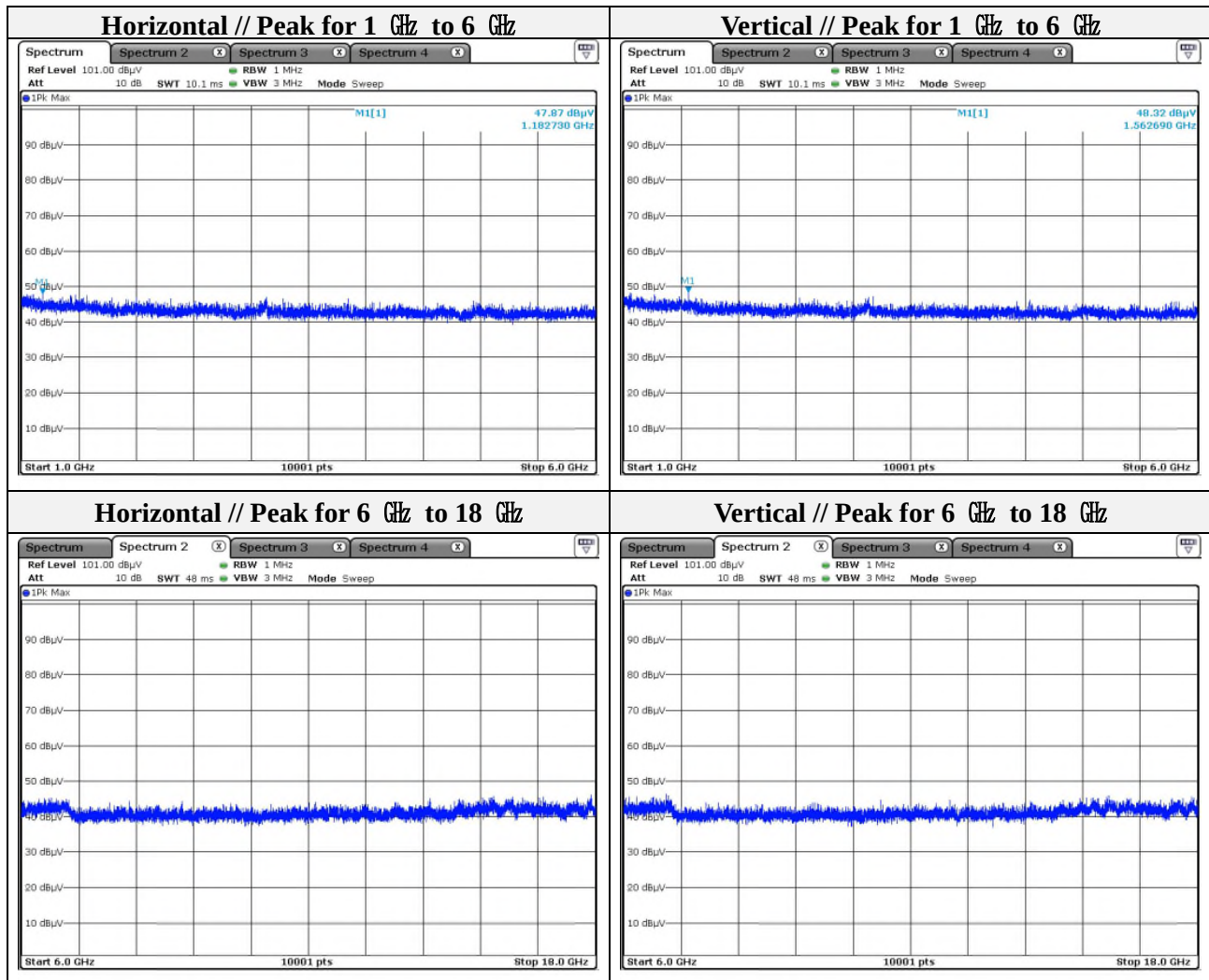
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5890.65	47.07	Peak	H	7.71	-	54.78	92.33	37.55
5904.51	45.85	Peak	V	7.79	-	53.64	80.94	27.30



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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-1(VHT80)
Distance of measurement: 3 meter
Channel: 42
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1372.26	48.70	Peak	H	-5.43	-	43.27	74.00	30.73
5019.50	46.26	Peak	H	16.22	-	62.48	74.00	11.52
1553.50	48.05	Peak	V	-2.18	-	45.87	74.00	28.13
3405.90	46.83	Peak	V	7.94	-	54.77	74.00	19.23

- Band edge// Below

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5025.81	50.22	Peak	H	4.78	-	55.00	74.00	19.00
4963.66	50.89	Peak	V	4.66	-	55.55	74.00	18.45
5025.81	38.44	Average	H	4.78	-	43.22	54.00	10.78
4963.66	38.64	Average	V	4.66	-	43.30	54.00	10.70

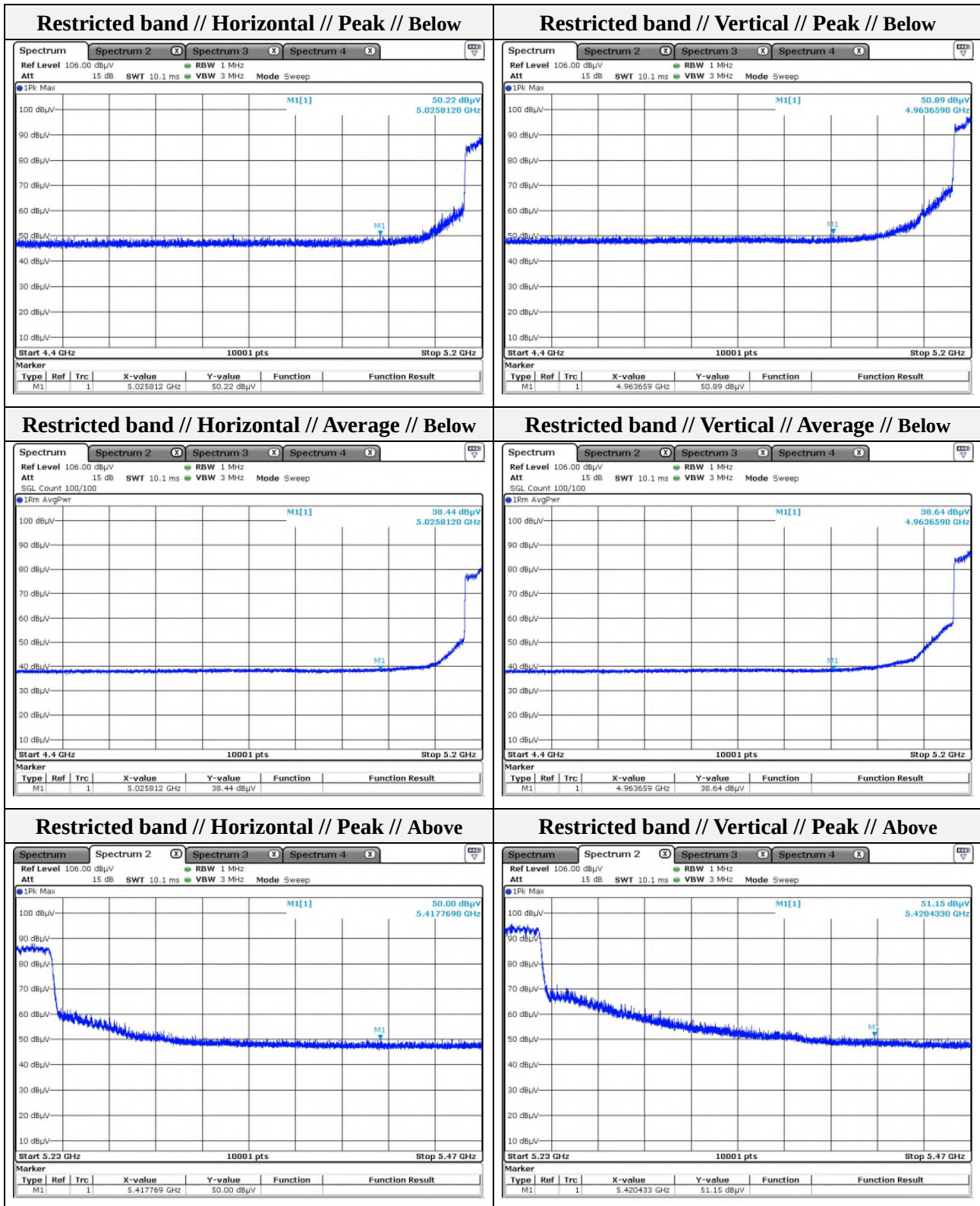
- Band edge// Above

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5417.77	50.00	Peak	H	2.89	-	52.89	74.00	21.11
5420.43	51.15	Peak	V	2.87	-	54.02	74.00	19.98
5420.43	38.86	Average	V	2.87	-	41.73	54.00	12.27

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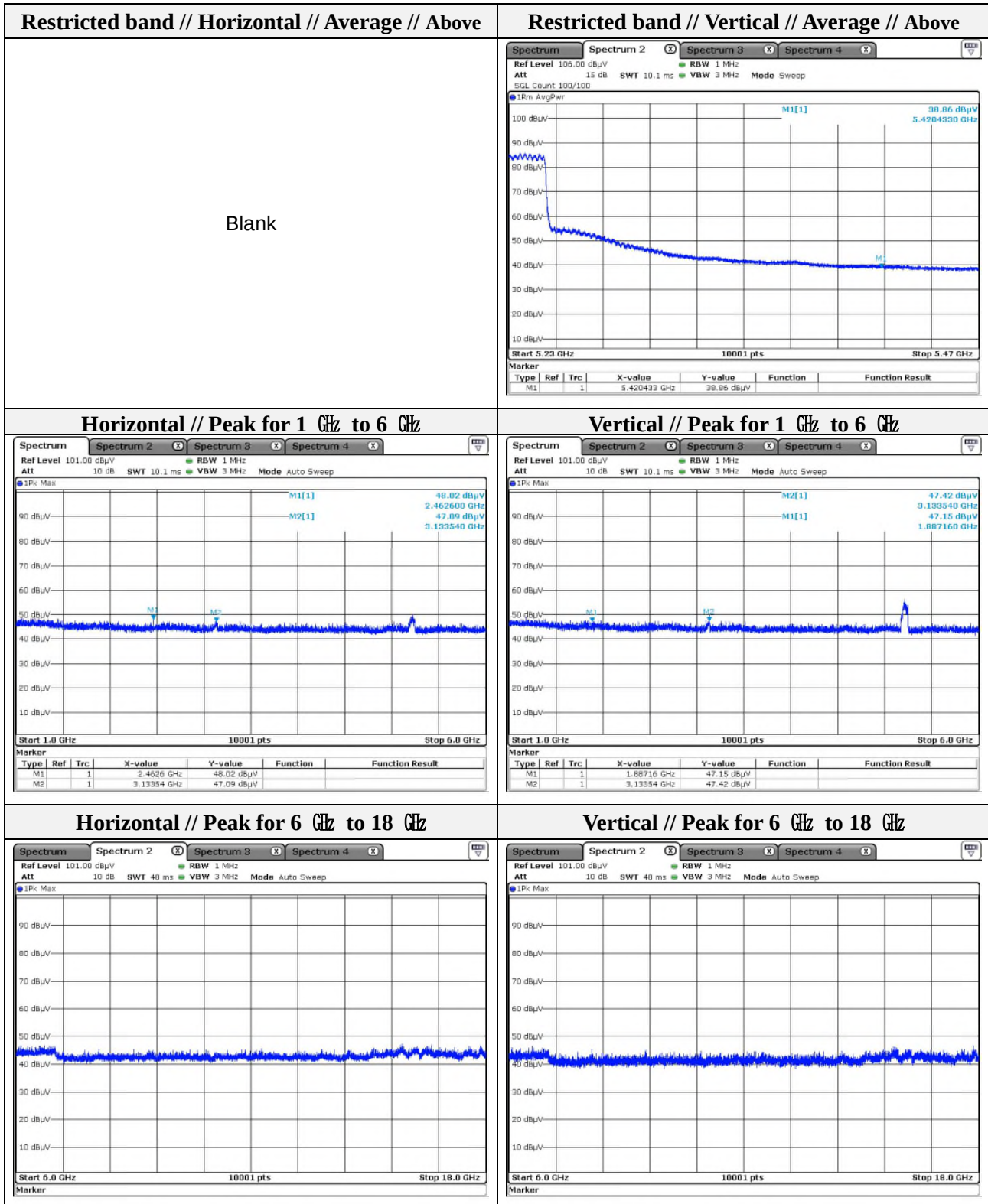
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Note.

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
ANT #1 Dipole Antenna

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1544.20	48.25	Peak	H	-8.38	-	39.87	74.00	34.13
3131.04	46.61	Peak	H	-1.85	-	44.76	68.20	23.44
1532.70	47.77	Peak	V	-8.55	-	39.22	74.00	34.78
3131.04	49.04	Peak	V	-1.85	-	47.19	68.20	21.01

- Band edge // Below

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5716.33	55.53	Peak	H	6.36	-	61.89	109.80	47.91
5715.39	65.29	Peak	V	6.36	-	71.65	109.54	37.89

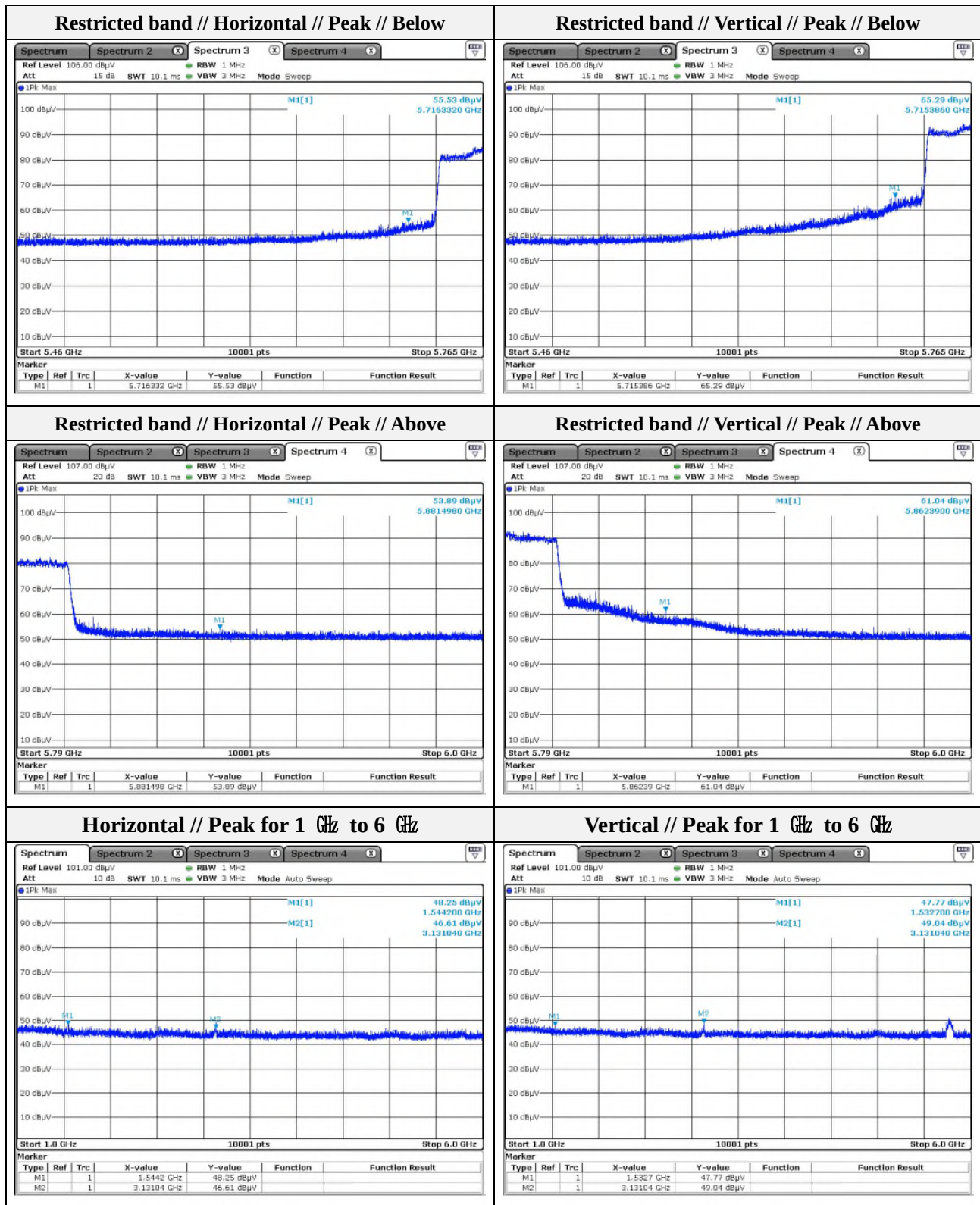
- Band edge // Above

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5881.50	53.89	Peak	H	7.65	-	61.54	84.33	22.79
5862.39	61.04	Peak	V	7.54	-	68.58	91.40	22.82

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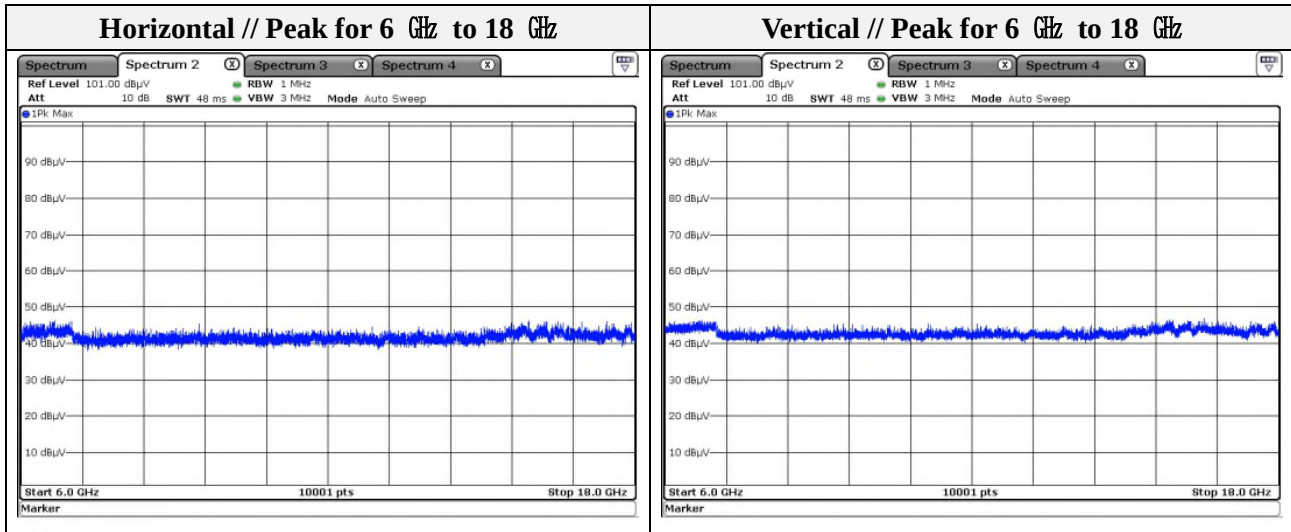
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1. No spurious emission were detected above 6 GHz.

Mode: UNII-1(VHT80)
Distance of measurement: 3 meter
Channel: 42
ANT #2 PCB Antenna(Top)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1097.74	47.91	Peak	H	-11.28	-	36.63	74.00	37.37
1036.75	49.43	Peak	V	-11.31	-	38.12	74.00	35.88

- Band edge// Below

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5143.62	52.33	Peak	H	4.08	-	56.41	74.00	17.59
5143.62	35.78	Average	H	4.08	-	39.86	54.00	14.14
5143.15	57.54	Peak	V	4.08	-	61.62	74.00	12.38
5143.15	38.40	Average	V	4.08	-	42.48	54.00	11.52

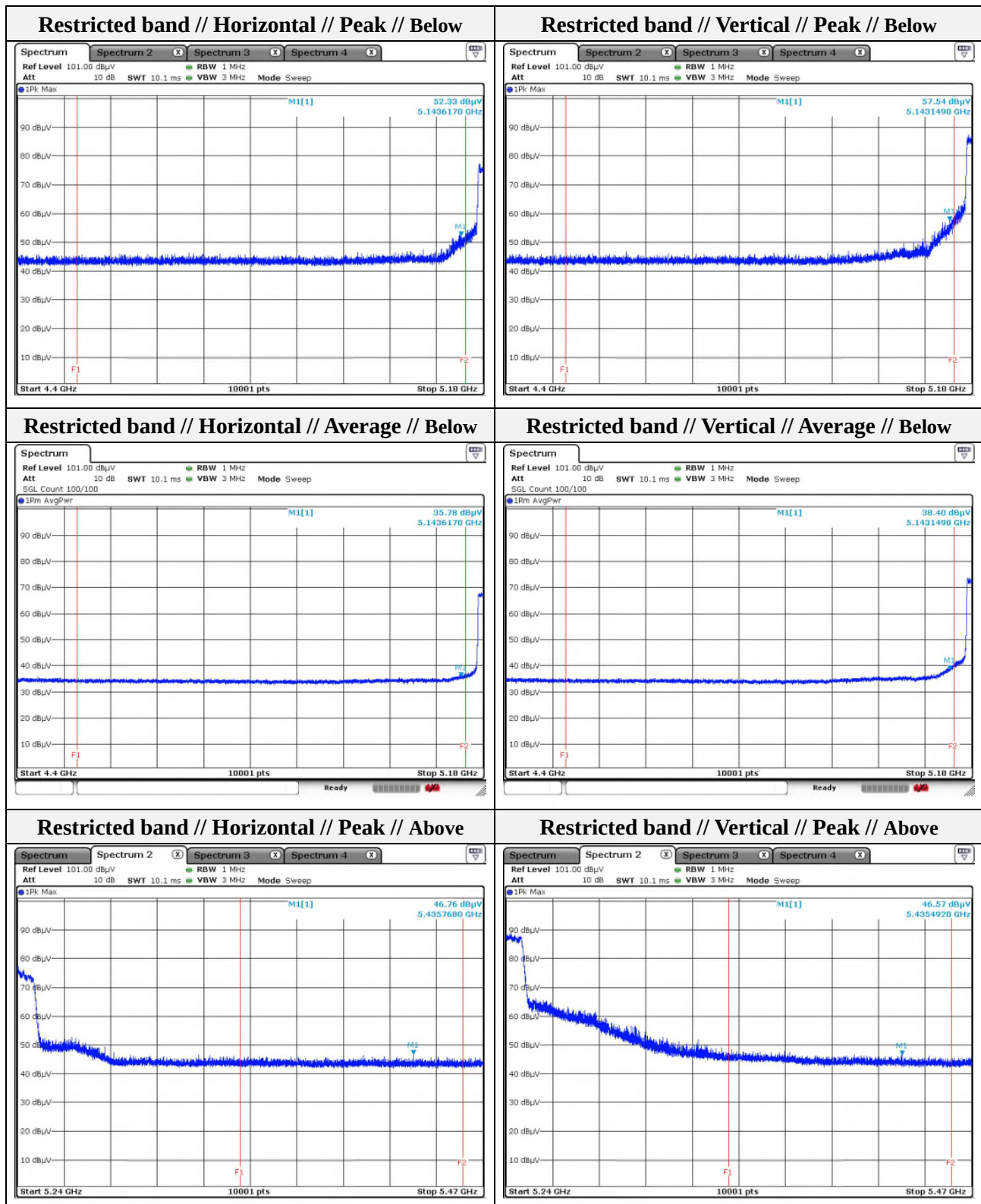
- Band edge// Above

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5435.77	46.76	Peak	H	2.81	-	49.57	74.00	24.43
5435.49	46.57	Peak	V	2.81	-	49.38	74.00	24.62

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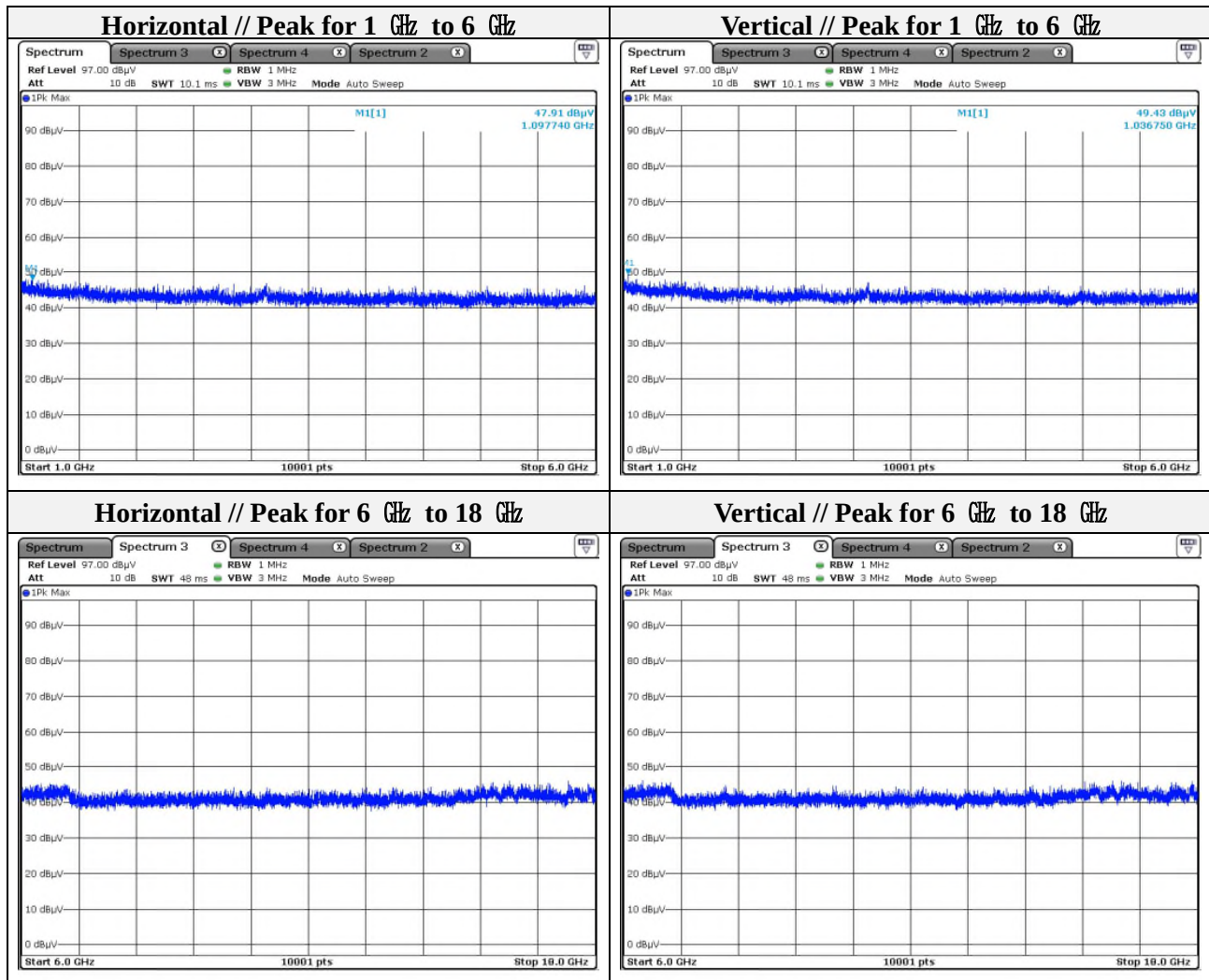
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Note.

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
ANT #2 PCB Antenna(Top)

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
3128.54	47.78	Peak	H	-1.86	-	45.92	74.00	28.08
1103.24	47.73	Peak	V	-11.28	-	36.45	74.00	37.55

- **Band edge // Below**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5670.67	45.93	Peak	H	5.93	-	51.86	83.50	31.64
5586.67	46.88	Peak	V	5.14	-	52.02	68.20	16.18

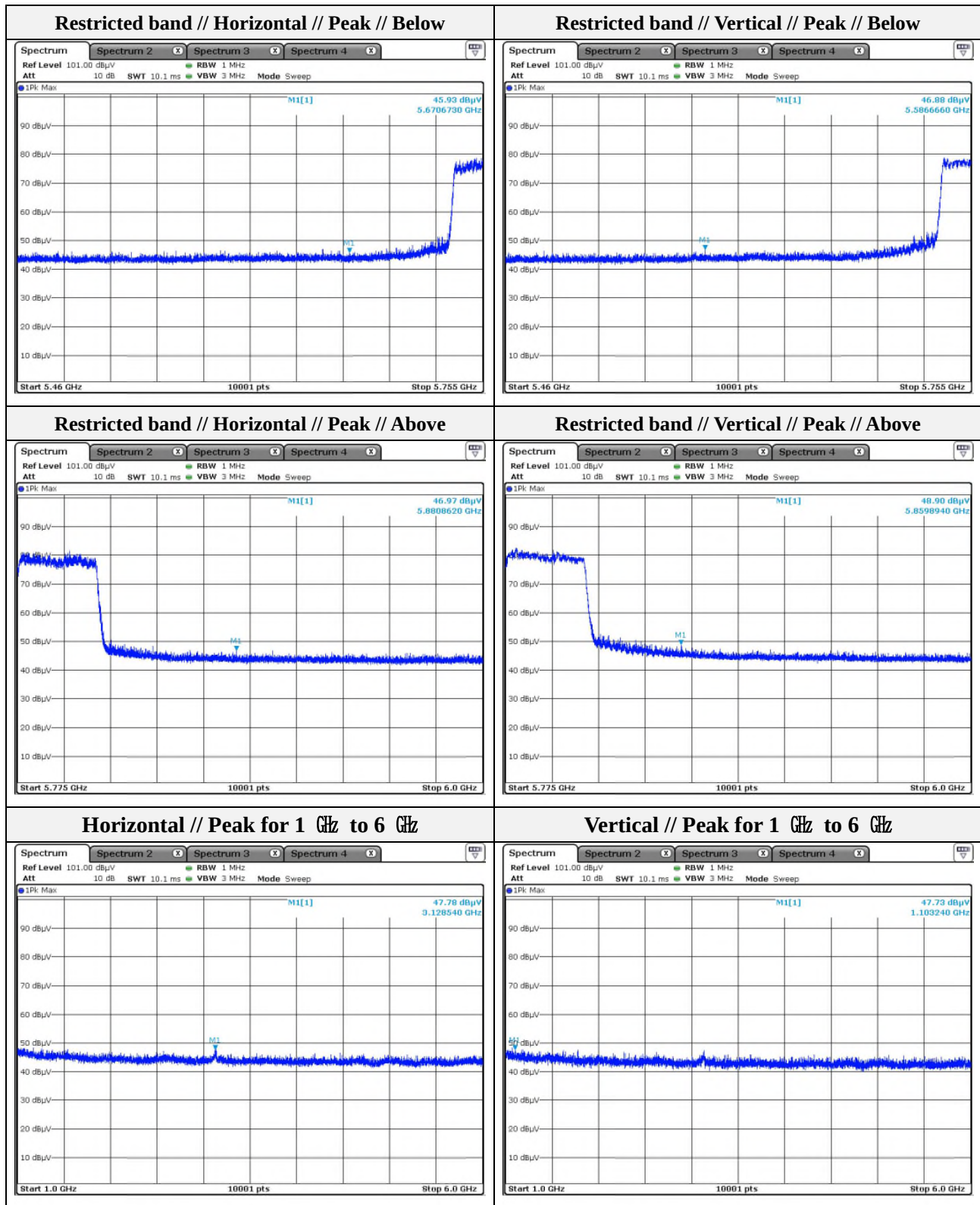
- **Band edge // Above**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5880.86	46.97	Peak	H	7.65	-	54.62	100.38	45.76
5859.89	48.90	Peak	V	7.53	-	56.43	109.43	53.00

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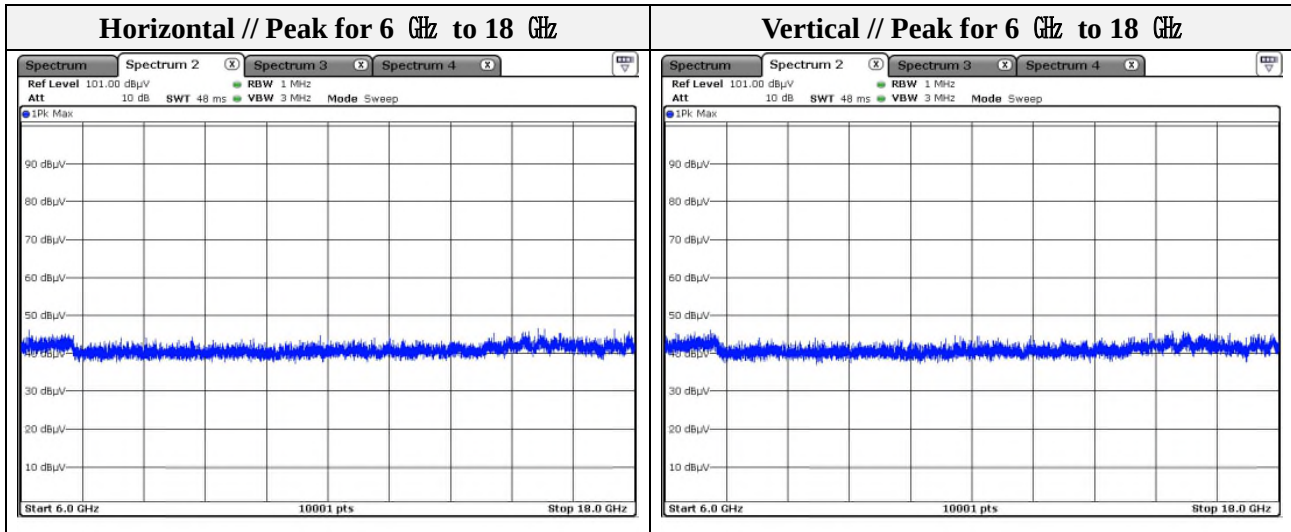
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1. No spurious emission were detected above 6 GHz.

Mode: UNII-1(VHT80)
Distance of measurement: 3 meter
Channel: 42
ANT #3 PCB Antenna(Side)

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1026.25	47.96	Peak	H	-11.31	-	36.65	74.00	37.35
1007.25	48.89	Peak	V	-11.31	-	37.58	74.00	36.42

- Band edge// Below

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5030.68	46.37	Peak	H	4.75	-	51.12	74.00	22.88
5144.94	50.72	Peak	V	4.07	-	54.79	74.00	19.21
5144.94	37.94	Average	V	4.07	-	42.01	54.00	11.99

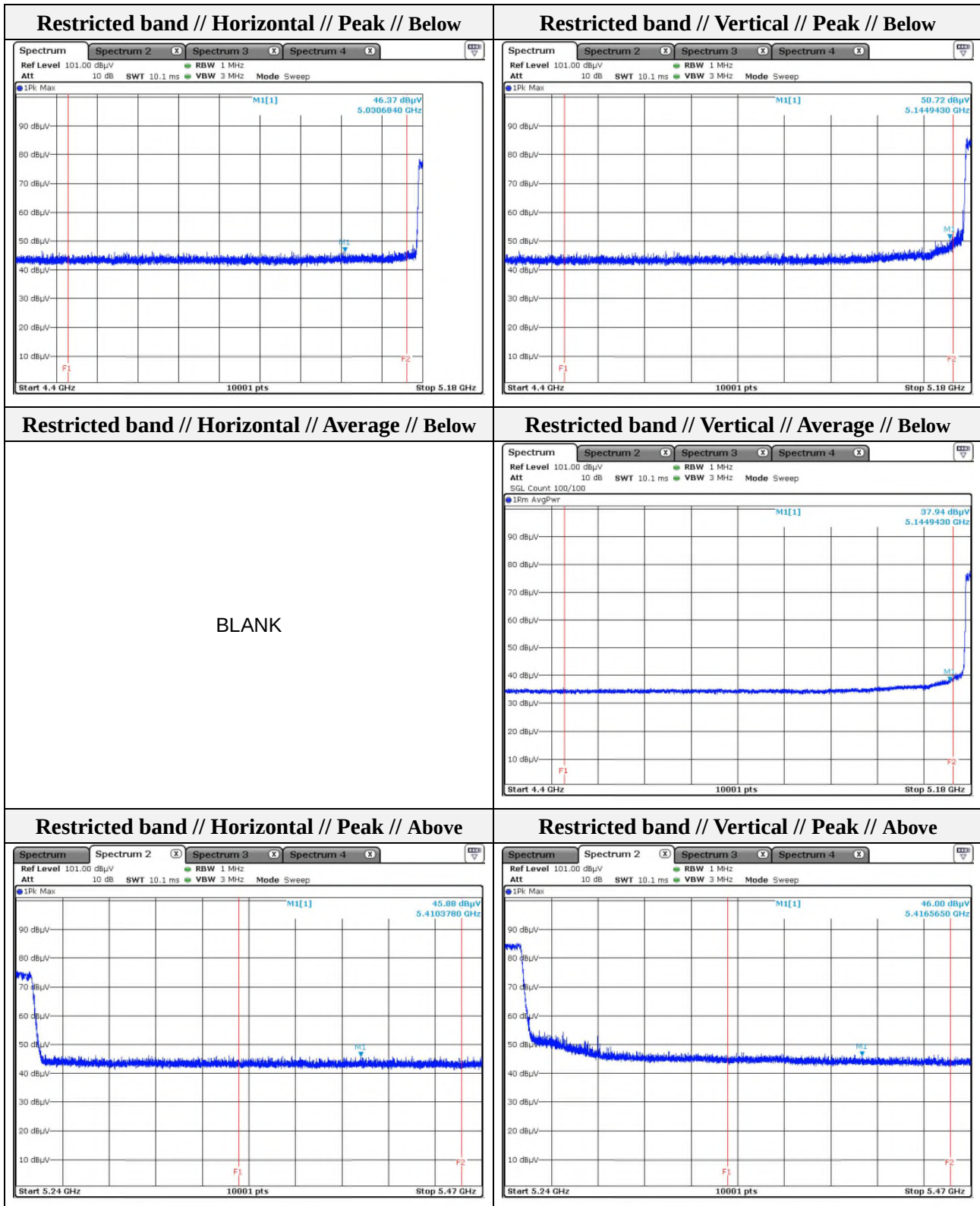
- Band edge// Above

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5410.38	45.88	Peak	V	2.92	-	48.80	74.00	25.20
5416.57	46.00	Peak	V	2.89	-	48.89	74.00	25.11

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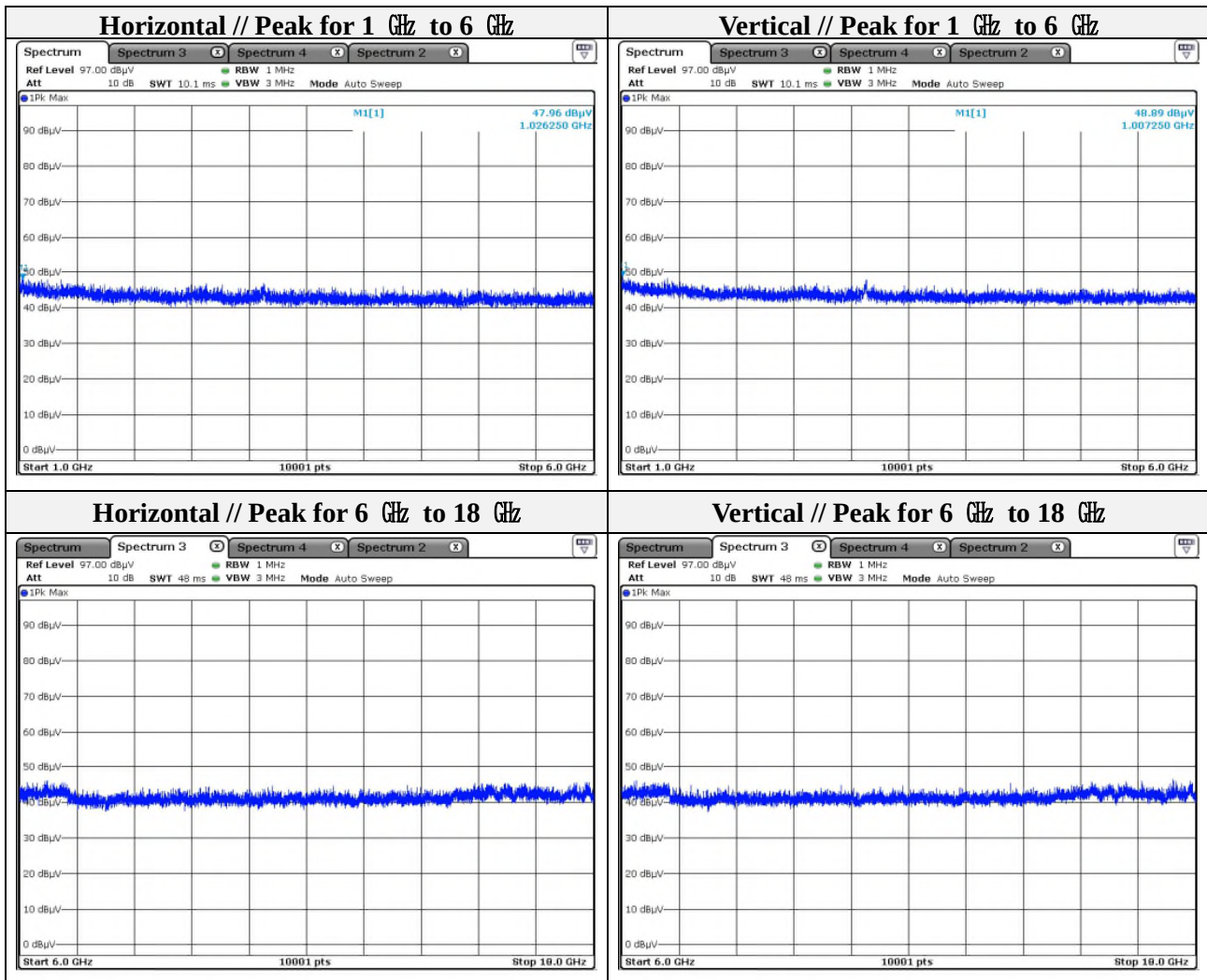
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Note.

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
ANT #3 PCB Antenna(Side)

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1008.25	47.80	Peak	H	-11.32	-	36.48	74.00	37.52
1063.74	47.84	Peak	V	-11.30	-	36.54	74.00	37.46

- **Band edge // Below**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5618.38	47.17	Peak	H	5.43	-	52.60	68.20	15.60
5718.37	54.77	Peak	V	6.39	-	61.16	110.34	49.18

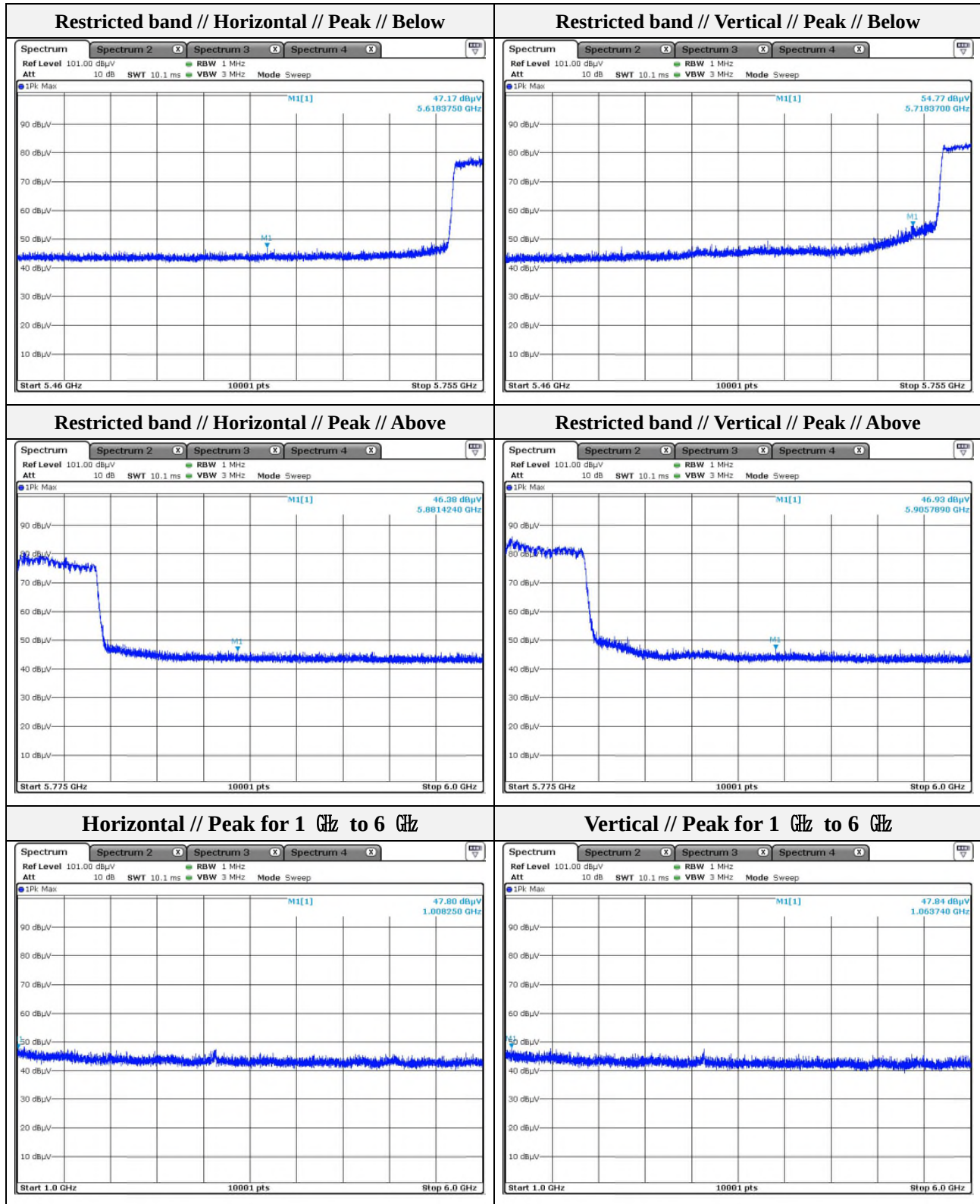
- **Band edge // Above**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5881.42	46.38	Peak	H	7.65	-	54.03	99.92	45.89
5905.79	46.93	Peak	V	7.81	-	54.74	79.88	25.14

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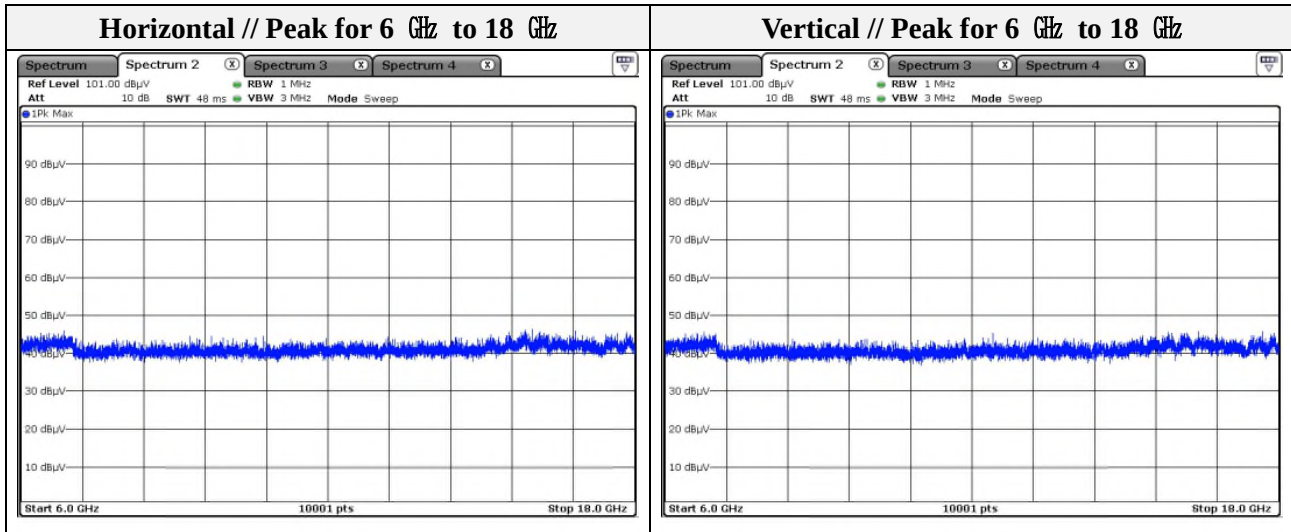
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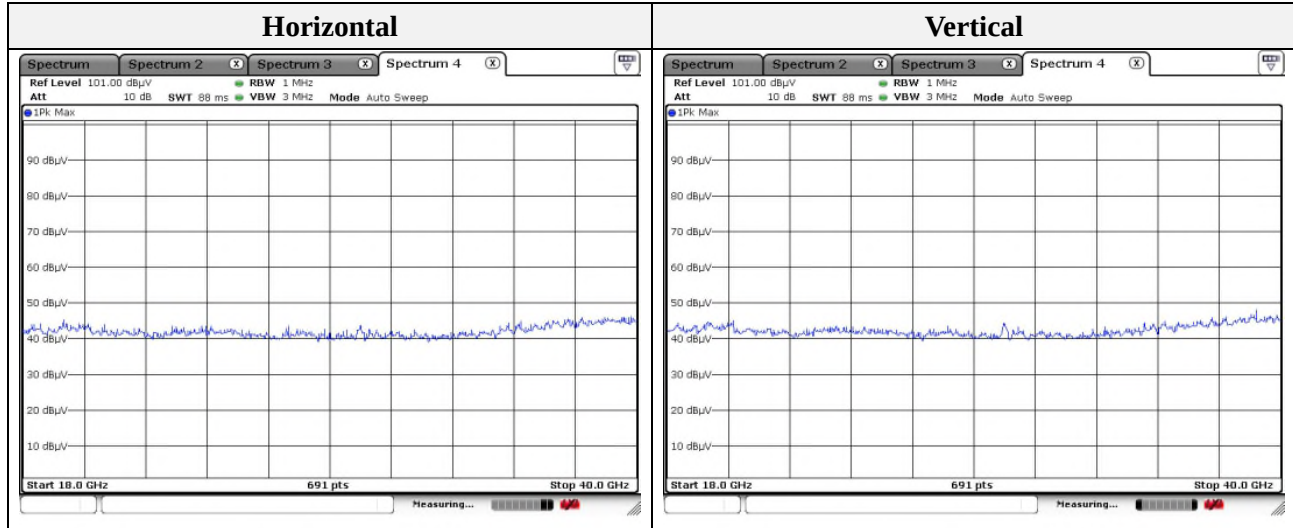
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1. No spurious emission were detected above 6 GHz.

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

Mode: UNII-3
 Distance of measurement: 3 meter
 Channel: 38
 ANT #1 Dipole Antenna



Note.

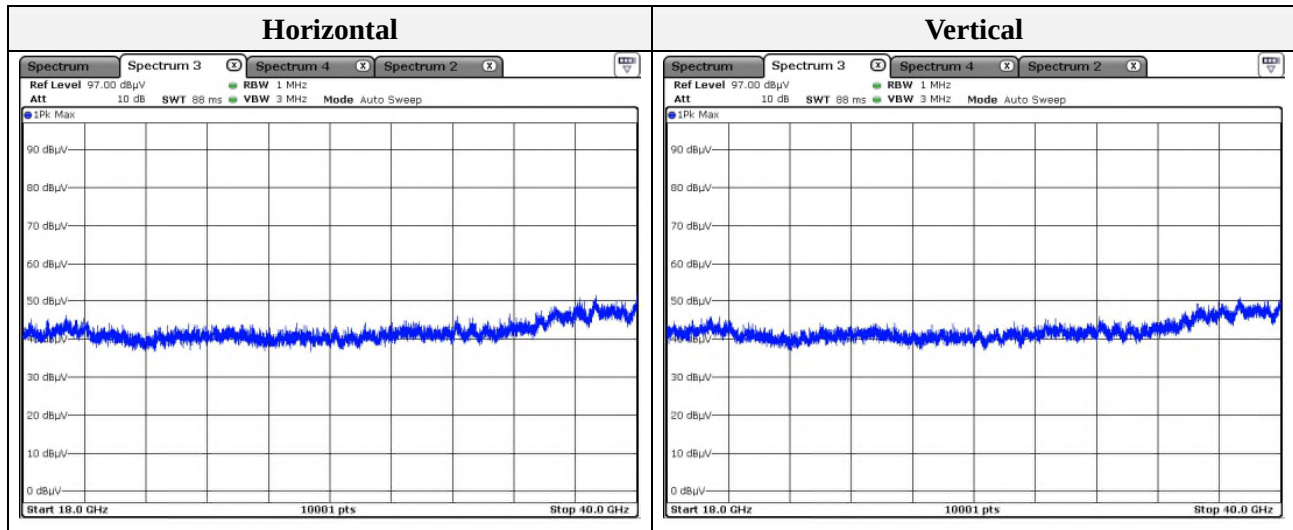
1. No spurious emission were detected above 18 GHz.

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Mode: UNII-3
 Distance of measurement: 3 meter
 Channel: 38
 ANT #2 PCB Antenna(Top)



Note.

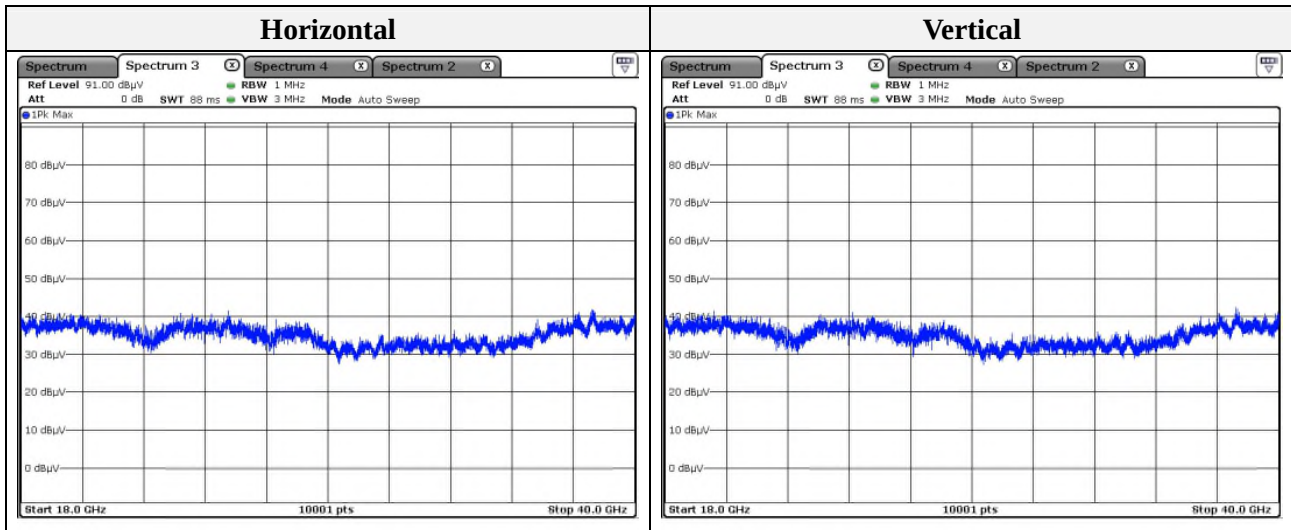
1. No spurious emission were detected above 18 GHz.

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Mode: UNII-3
 Distance of measurement: 3 meter
 Channel: 38
 ANT #3 PCB Antenna(Side)



Note.

1. No spurious emission were detected above 18 GHz.

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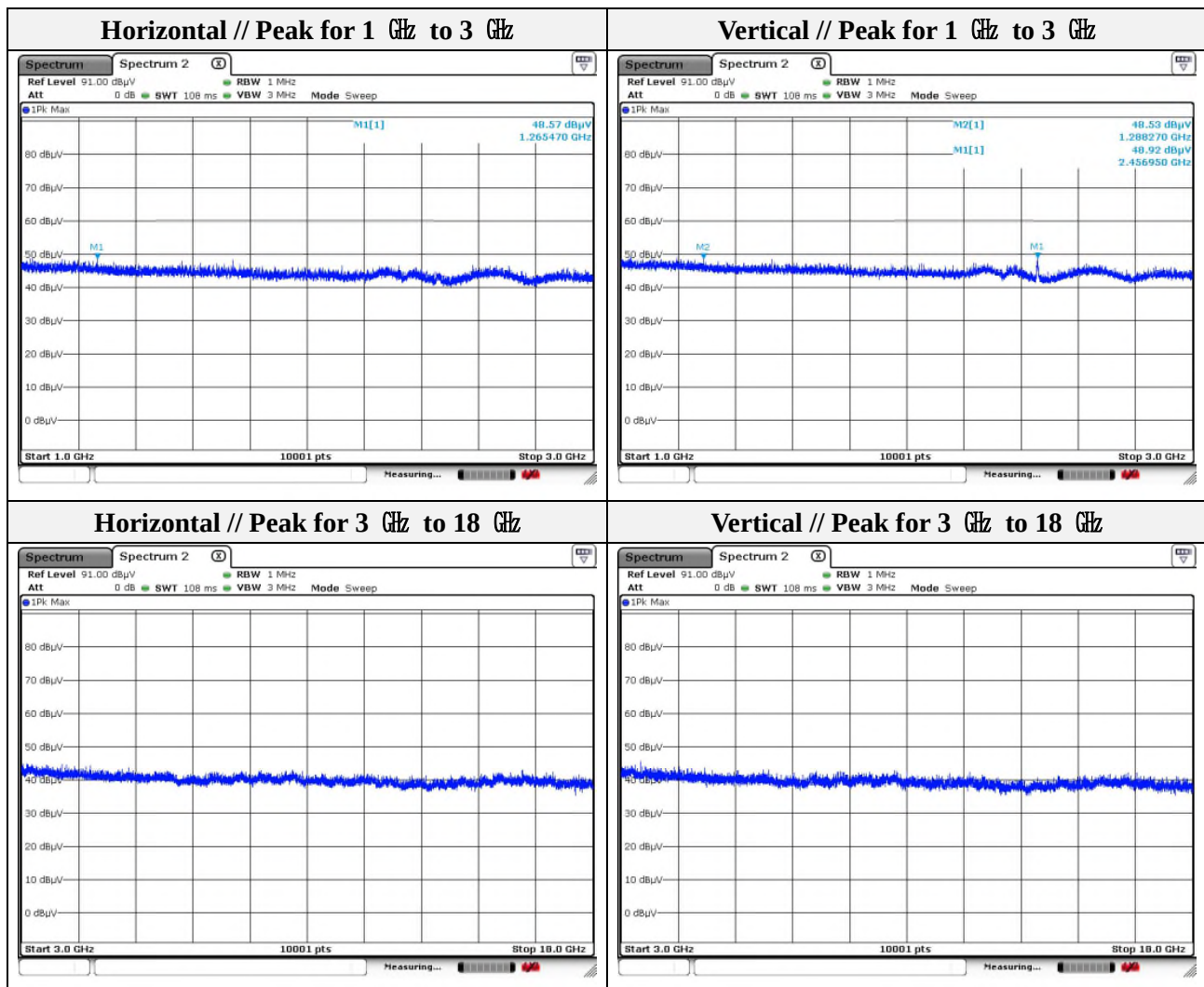
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Test results (Above 1 000 MHz)

Mode: Bluetooth + WLAN
Distance of measurement: 3 meter
ANT #1 Dipole Antenna

- Spurious

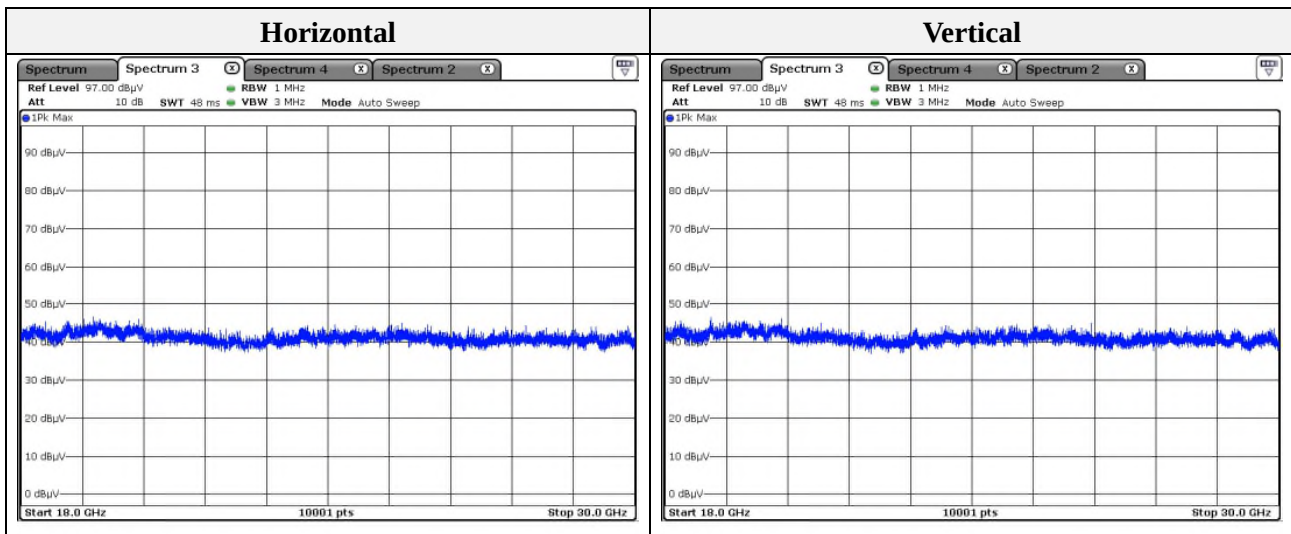
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1265.47	48.57	Peak	H	-11.23	-	37.34	74.00	36.66
1288.27	48.53	Peak	V	-11.22	-	37.31	74.00	36.69



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Note.

1. This product can operate both bluetooth and wlan at the same time, so it additionally performs spurious measurements in the simultaneous operation state.
2. No spurious emission were detected above 3 GHz.
3. No spurious emission were detected above 18 GHz.
4. Average test would be performed if the peak result were greater than the average limit.

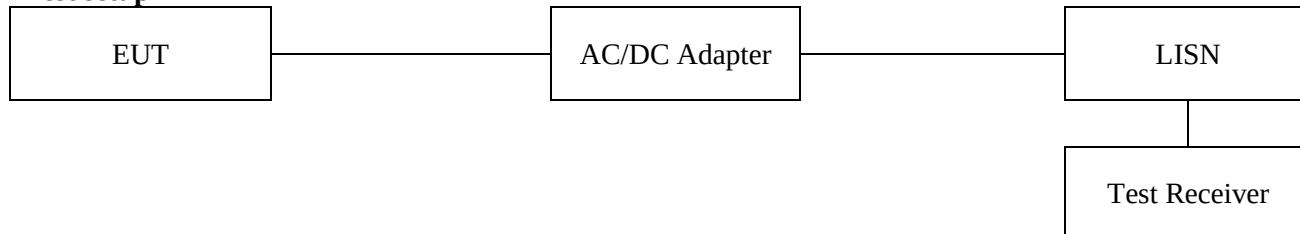
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3.7 AC conducted emissions

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

Note:

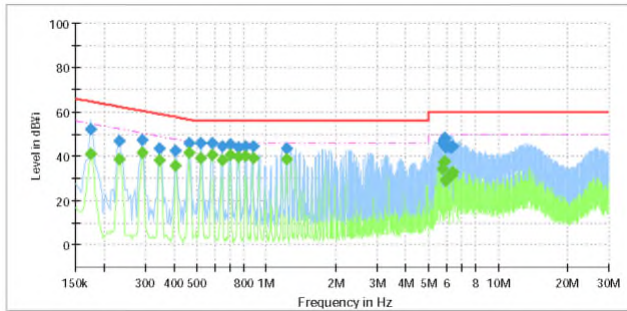
1. All AC line conducted spurious emission are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and the appropriate frequencies. All data rates and modes were investigated for conducted spurious emission. Only the conducted 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

Mode: UNII-1_HT40
Distance of measurement: 3 meter
Channel: 38 (Worst case)
ANT #1 Dipole Antenna(Worst case)

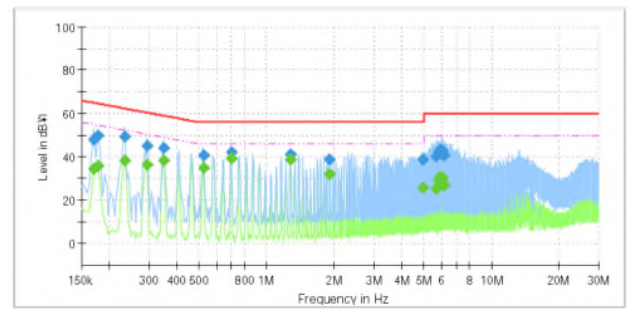
Hot Line



Final Result

Frequency (MHz)	QuasiPeak (dBm V)	Average (dBm V)	Limit (dBm V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.174000	---	41.15	54.77	13.62	1000.0	9.000	L1	19.6
0.174000	52.25	---	64.77	12.52	1000.0	9.000	L1	19.6
0.230000	46.71	---	62.45	15.74	1000.0	9.000	L1	19.6
0.230000	---	38.64	52.45	13.81	1000.0	9.000	L1	19.6
0.290000	47.26	---	60.52	13.26	1000.0	9.000	L1	19.7
0.290000	---	41.84	50.52	8.68	1000.0	9.000	L1	19.7
0.346000	43.76	---	59.06	15.30	1000.0	9.000	L1	19.7
0.346000	---	38.20	49.06	10.86	1000.0	9.000	L1	19.7
0.406000	42.39	---	57.73	15.34	1000.0	9.000	L1	19.7
0.406000	---	35.85	47.73	11.88	1000.0	9.000	L1	19.7
0.466000	45.80	---	56.58	10.78	1000.0	9.000	L1	19.7
0.466000	---	41.52	46.58	5.06	1000.0	9.000	L1	19.7
0.522000	45.73	---	56.00	10.27	1000.0	9.000	L1	19.7
0.522000	---	39.32	46.00	6.68	1000.0	9.000	L1	19.7
0.582000	45.88	---	56.00	10.12	1000.0	9.000	L1	19.7
0.582000	---	40.76	46.00	5.24	1000.0	9.000	L1	19.7
0.642000	---	38.27	46.00	7.73	1000.0	9.000	L1	19.7
0.642000	44.42	---	56.00	11.58	1000.0	9.000	L1	19.7
0.698000	45.35	---	56.00	10.65	1000.0	9.000	L1	19.7
0.698000	---	40.77	46.00	5.23	1000.0	9.000	L1	19.7
0.754000	44.01	---	56.00	11.99	1000.0	9.000	L1	19.7
0.754000	---	39.70	46.00	6.30	1000.0	9.000	L1	19.7
0.814000	44.35	---	56.00	11.65	1000.0	9.000	L1	19.7
0.814000	---	39.97	46.00	6.03	1000.0	9.000	L1	19.7
0.874000	44.30	---	56.00	11.70	1000.0	9.000	L1	19.7
0.874000	---	39.27	46.00	6.73	1000.0	9.000	L1	19.7
1.222000	43.65	---	56.00	12.35	1000.0	9.000	L1	19.8
1.222000	---	38.87	46.00	7.13	1000.0	9.000	L1	19.8
5.770000	---	34.28	50.00	15.72	1000.0	9.000	L1	20.0
5.770000	45.94	---	60.00	14.06	1000.0	9.000	L1	20.0

Neutral Line



Final Result

Frequency (MHz)	QuasiPeak (dBm V)	Average (dBm V)	Limit (dBm V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	47.74	---	64.96	17.22	1000.0	9.000	N	19.6
0.170000	---	34.55	54.96	20.41	1000.0	9.000	N	19.6
0.178000	---	35.96	54.68	18.62	1000.0	9.000	N	19.6
0.178000	49.71	---	64.58	14.87	1000.0	9.000	N	19.6
0.234000	49.49	---	62.31	12.82	1000.0	9.000	N	19.6
0.234000	---	38.10	52.31	14.21	1000.0	9.000	N	19.6
0.294000	---	36.52	50.41	13.89	1000.0	9.000	N	19.6
0.294000	44.78	---	60.41	15.63	1000.0	9.000	N	19.6
0.350000	---	38.30	48.96	10.66	1000.0	9.000	N	19.7
0.350000	43.93	---	58.96	15.03	1000.0	9.000	N	19.7
0.526000	---	34.66	46.00	11.34	1000.0	9.000	N	19.7
0.526000	40.65	---	56.00	15.35	1000.0	9.000	N	19.7
0.698000	42.15	---	56.00	13.85	1000.0	9.000	N	19.7
0.698000	---	39.37	46.00	6.63	1000.0	9.000	N	19.7
1.278000	---	38.96	46.00	7.04	1000.0	9.000	N	19.7
1.278000	41.17	---	56.00	14.83	1000.0	9.000	N	19.7
1.914000	---	31.77	46.00	14.23	1000.0	9.000	N	19.8
1.914000	38.94	---	56.00	17.06	1000.0	9.000	N	19.8
4.938000	38.72	---	56.00	17.28	1000.0	9.000	N	19.9
4.938000	---	25.91	46.00	20.09	1000.0	9.000	N	19.9
5.898000	---	25.32	50.00	24.68	1000.0	9.000	N	20.0
5.898000	40.21	---	60.00	19.79	1000.0	9.000	N	20.0
5.814000	42.14	---	60.00	17.86	1000.0	9.000	N	20.0
5.814000	---	29.18	50.00	20.82	1000.0	9.000	N	20.0
5.968000	43.29	---	60.00	16.71	1000.0	9.000	N	20.0
5.968000	---	30.42	50.00	19.58	1000.0	9.000	N	20.0
5.968000	---	30.01	50.00	19.99	1000.0	9.000	N	20.0
5.968000	42.78	---	60.00	17.22	1000.0	9.000	N	20.0
6.042000	---	30.58	50.00	19.42	1000.0	9.000	N	20.0
6.042000	43.21	---	60.00	16.79	1000.0	9.000	N	20.0

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Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	1 year	2021.04.01
SPECTRUM ANALYZER	R&S	FSV40	101725	1 year	2021.06.22
8360B Series Swept Signal Generator	HP	83630B	3844A00786	1 year	2021.01.15
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2021.05.12
Power Meter	Anritsu	ML2495A	1438001	1 year	2021.05.12
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	2021.05.12
DC POWER SUPPLY	SORENSEN	DCS40-75E	1408A02745	1 year	2021.01.15
ATTENUATOR	Mini-Circuits	BW-S10-2W263+	1	1 year	2021.01.17
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2021.02.15
BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	2 years	2022.05.26
HORN ANTENNA	A.H.	SAS-571	414	1 years	2021.01.31
BAND REJECT FILTER	MICRO-TRONICS	BRM50702	G272	1 year	2021.01.15
BAND REJECT FILTER	MICRO-TRONICS	BRM50716	G199	1 year	2021.01.15
AMPLIFIER	310N	SONOMA INSTRUMENT	401123	1 year	2021.06.08
PREAMPLIFIER	8449B	AGILENT	8008A01640	1 year	2021.04.01
ATTENUATOR	F04-C1206-01	SRT	20022403	1 year	2021.05.06
EMI Test Receiver	R&S	ESR3	101783	1 year	2021.01.20
EMI Test Receiver	R&S	ESU26	100552	1 year	2021.04.01
Pulse Limiter	R&S	ESH3-Z2	101915	1 year	2021.01.02
LISN	R&S	ENV216	101787	1 year	2021.01.02

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	15UD590	904QCSF564006
Test Jig Board	N/A	N/A	N/A

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