



KES Co., Ltd.

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Report No.:

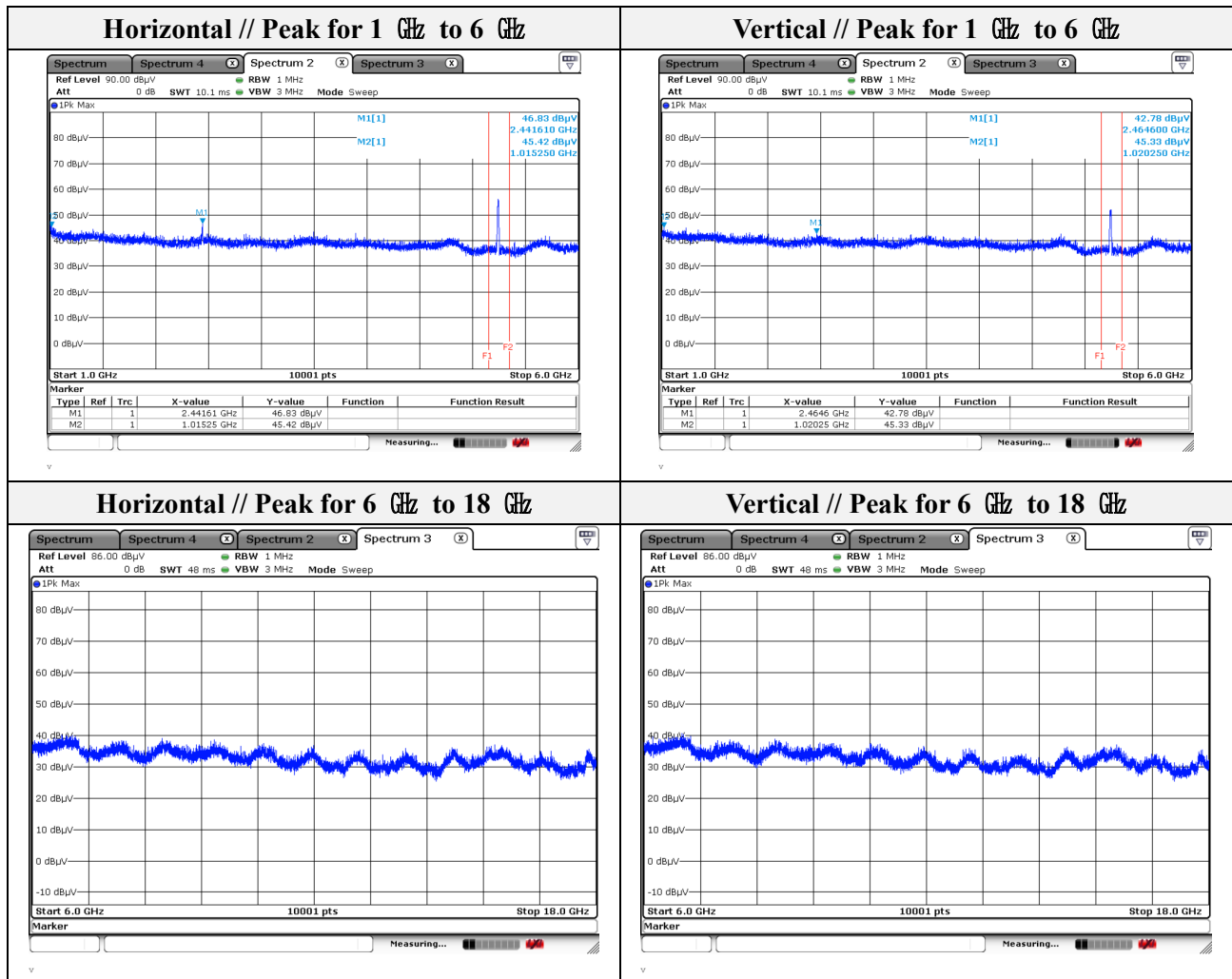
KES-RF-23T0015

Page (68) of (135)

Mode: 802.11a
Band: UNII-1
Distance of measurement: 3 meter
Channel: 48

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 015.25	45.42	Peak	H	-10.33	-	35.09	74.00	38.91
1 020.25	45.33	Peak	V	-10.30	-	35.03	74.00	38.97
2 441.61	46.83	Peak	H	-1.67	-	45.16	68.20	23.04
2 464.60	42.78	Peak	V	-1.67	-	41.11	68.20	27.09



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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Report No.:

KES-RF-23T0015

Page (69) of (135)

Mode: 802.11n_HT20
Band: UNII-1
Distance of measurement: 3 meter
Channel: 36

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	45.39	Peak	H	-10.42	-	34.97	74.00	39.03
1 045.75	43.81	Peak	V	-10.14	-	33.67	74.00	40.33
1 215.23	44.32	Peak	V	-9.11	-	35.21	74.00	38.79
2 395.11	43.24	Peak	H	-1.68	-	41.56	68.20	26.64

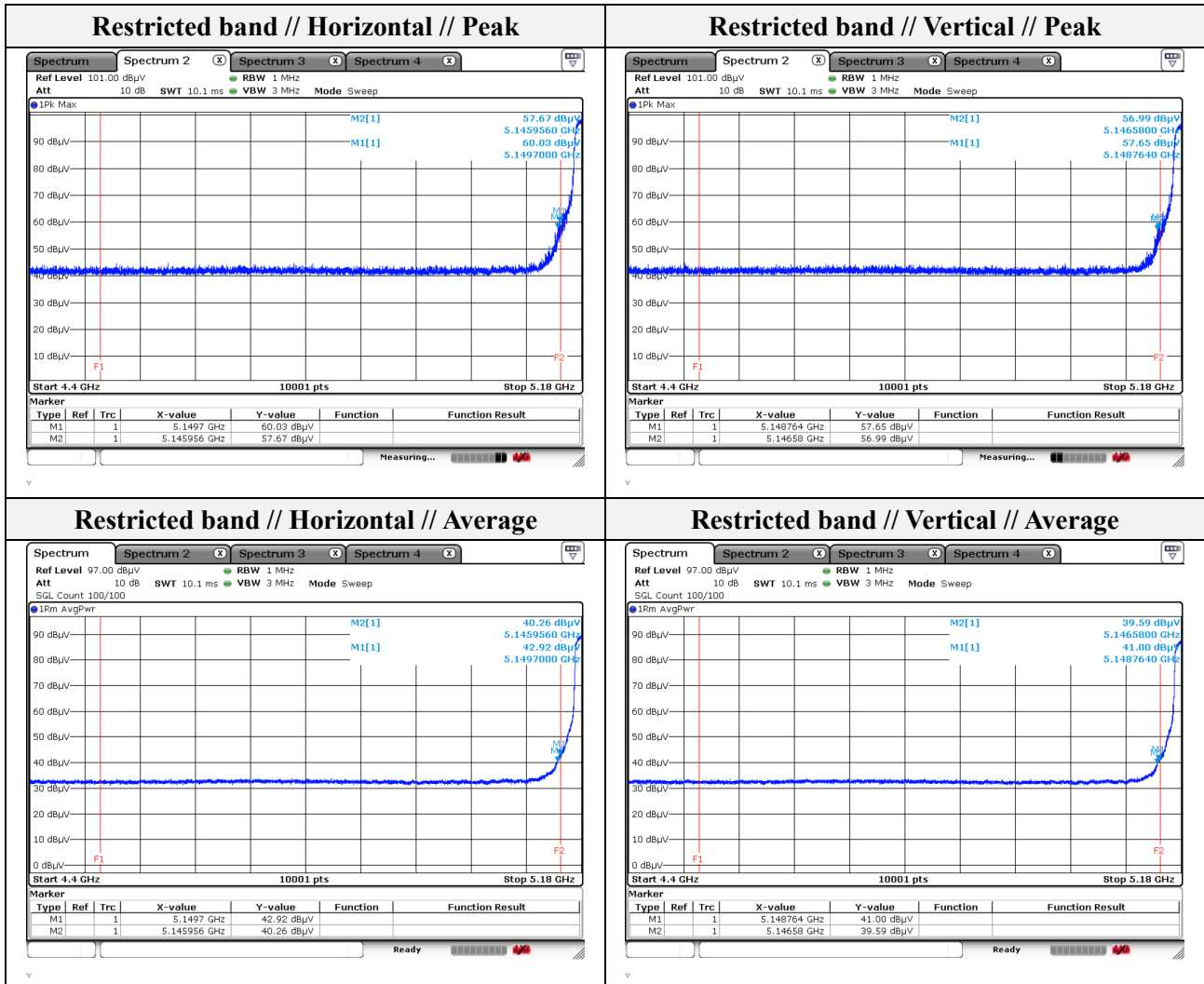
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 145.96	57.67	Peak	H	6.00	-	63.67	74.00	10.33
5 145.96	40.26	Average	H	6.00	0.04	46.3	54.00	7.70
5 146.58	56.99	Peak	V	6.00	-	62.99	74.00	11.01
5 146.58	39.59	Average	V	6.00	0.04	45.63	54.00	8.37
5 148.76	57.65	Peak	V	5.99	-	63.64	74.00	10.36
5 148.76	41.00	Average	V	5.99	0.04	47.03	54.00	6.97
5 149.70	60.03	Peak	H	5.99	-	66.02	74.00	7.98
5 149.70	42.92	Average	H	5.99	0.04	48.95	54.00	5.05

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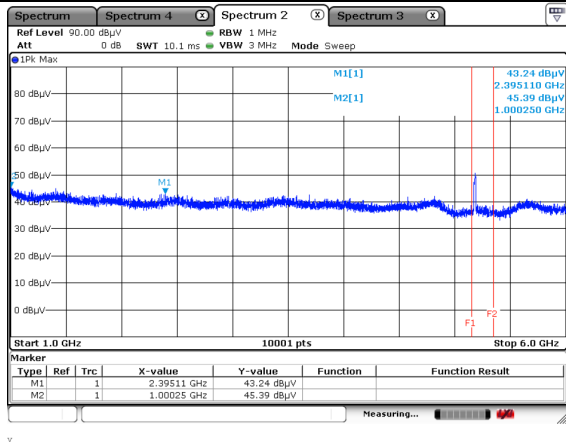
3701, 40, Simin-daero 365beon-gil,
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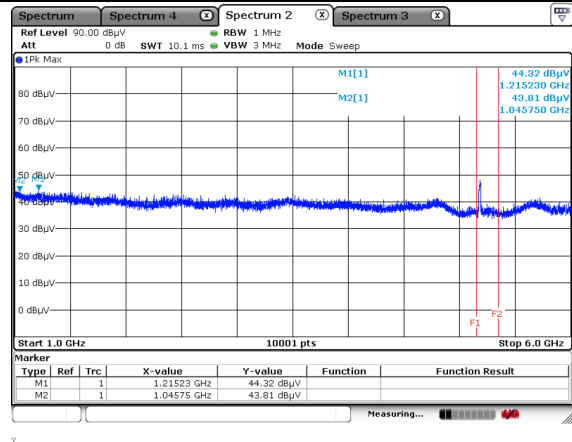
KES-RF-23T0015

Page (71) of (135)

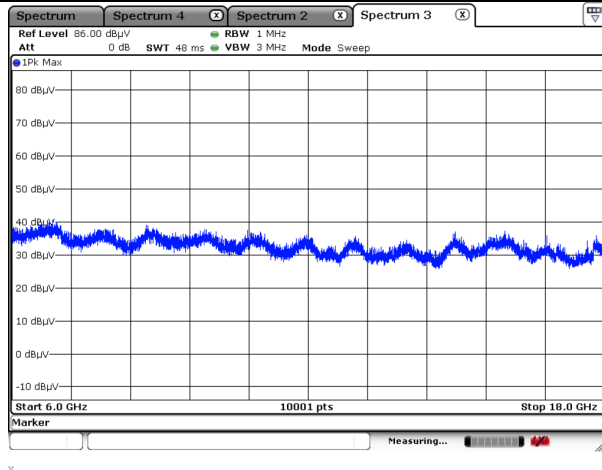
Horizontal // Peak for 1 GHz to 6 GHz



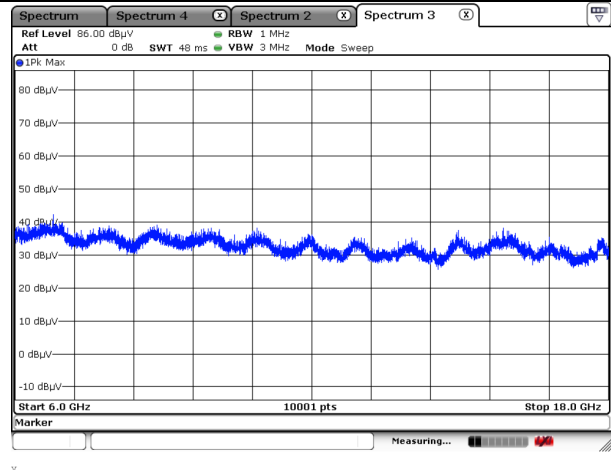
Vertical // Peak for 1 GHz to 6 GHz



Horizontal // Peak for 6 GHz to 18 GHz



Vertical // Peak for 6 GHz to 18 GHz



Note.

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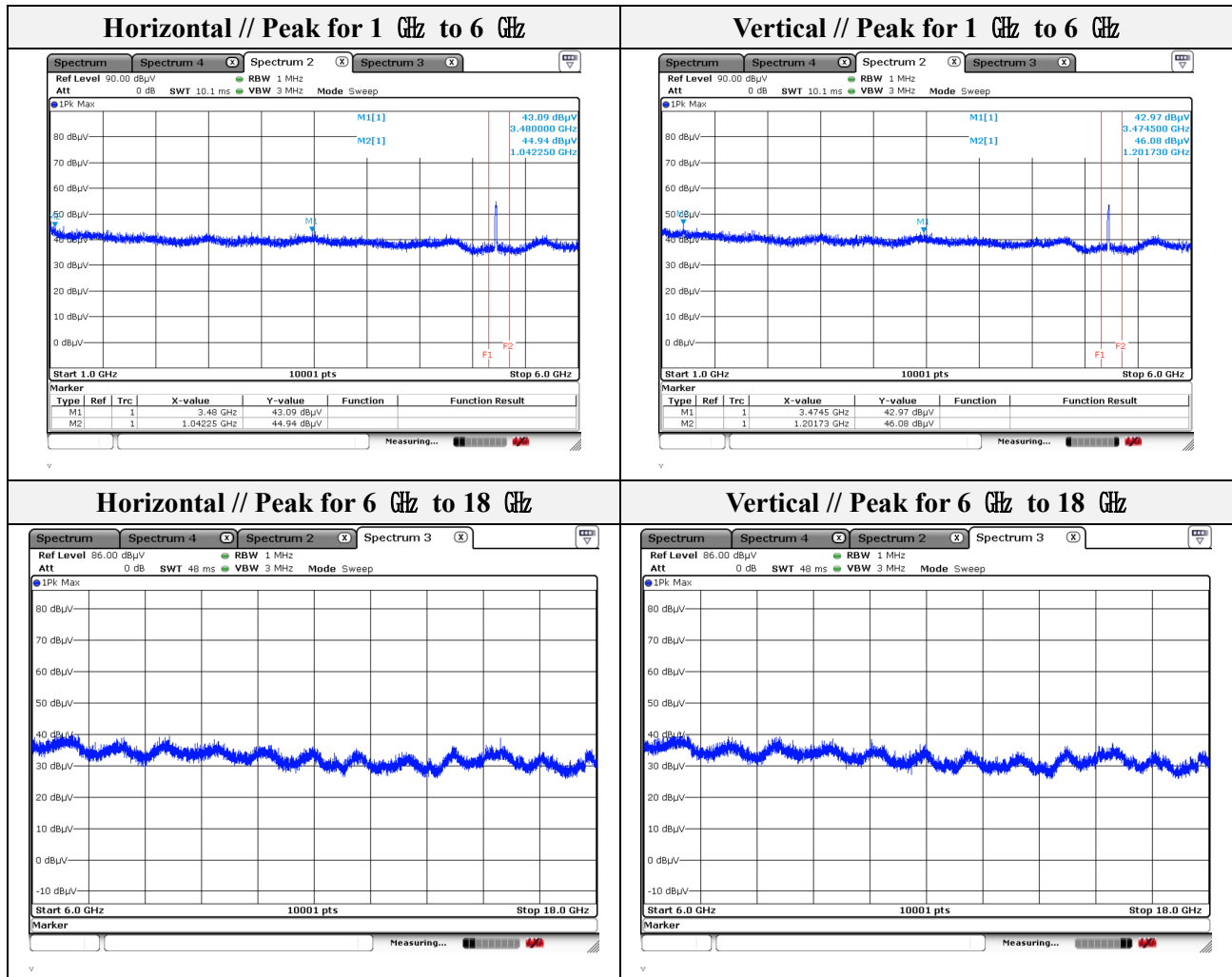
KES-RF-23T0015

Page (72) of (135)

Mode: 802.11n_HT20
Band: UNII-1
Distance of measurement: 3 meter
Channel: 44

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 042.25	44.94	Peak	H	-10.16	-	34.78	74.00	39.22
1 201.73	46.08	Peak	V	-9.19	-	36.89	74.00	37.11
3 474.50	42.97	Peak	V	-0.17	-	42.80	68.20	25.40
3 480.00	43.09	Peak	H	-0.17	-	42.92	68.20	25.28



Note.

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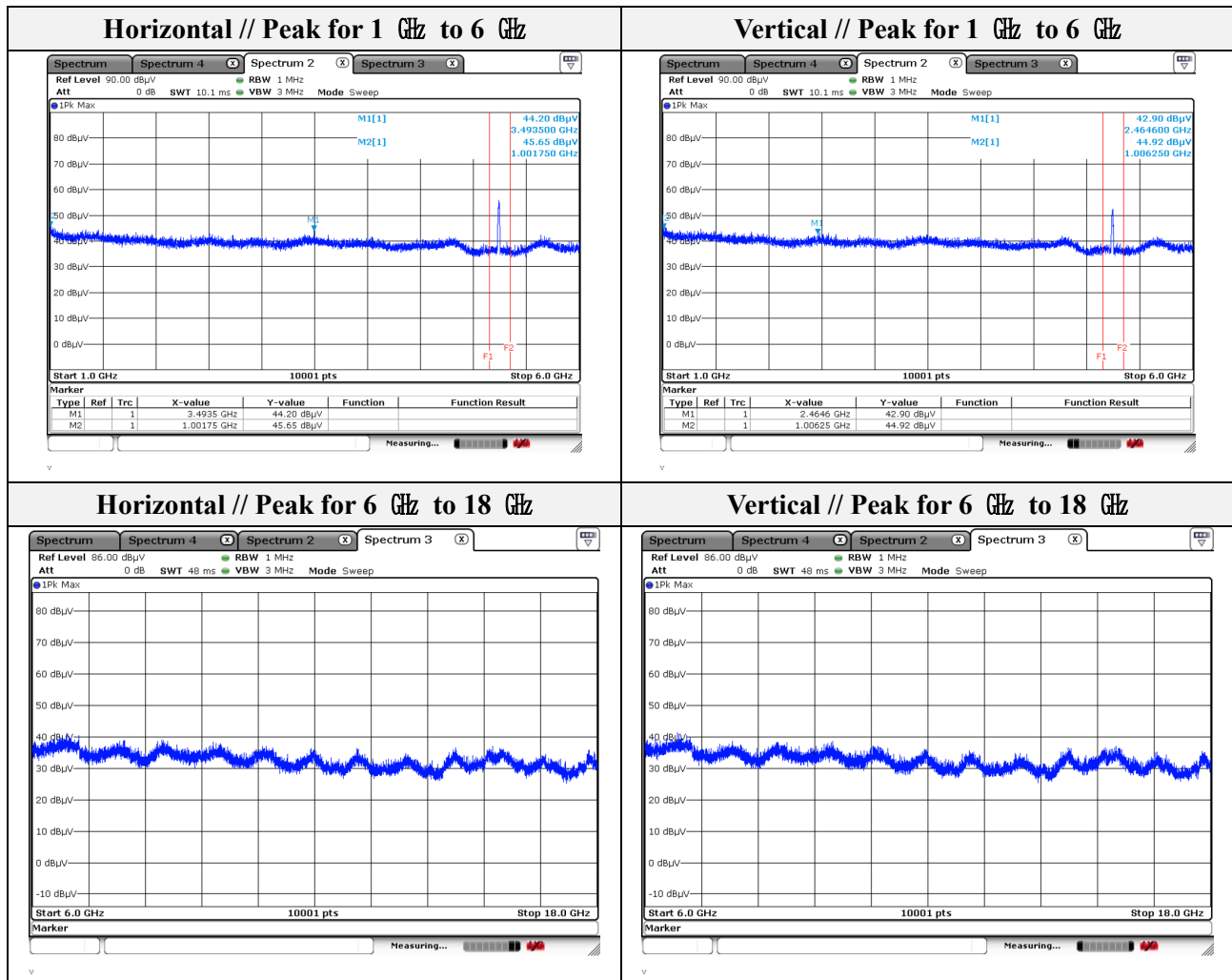
KES-RF-23T0015

Page (73) of (135)

Mode: 802.11n_HT20
Band: UNII-1
Distance of measurement: 3 meter
Channel: 48

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.75	45.65	Peak	H	-10.41	-	35.24	74.00	38.76
1 006.25	44.92	Peak	V	-10.38	-	34.54	74.00	39.46
2 464.60	42.90	Peak	V	-1.67	-	41.23	68.20	26.97
3 493.50	44.20	Peak	H	-0.17	-	44.03	68.20	24.17



Note.

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Report No.:

KES-RF-23T0015

Page (74) of (135)

Mode: 802.11n_HT40
Band: UNII-1
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)
1 000.25	48.80	Peak	H	-10.42	-	38.38	74.00	35.62
1 328.22	45.83	Peak	V	-8.41	-	37.42	74.00	36.58
3 535.50	42.70	Peak	V	0.04	-	42.74	68.20	25.46
4 680.38	42.24	Peak	H	3.87	-	46.11	74.00	27.89

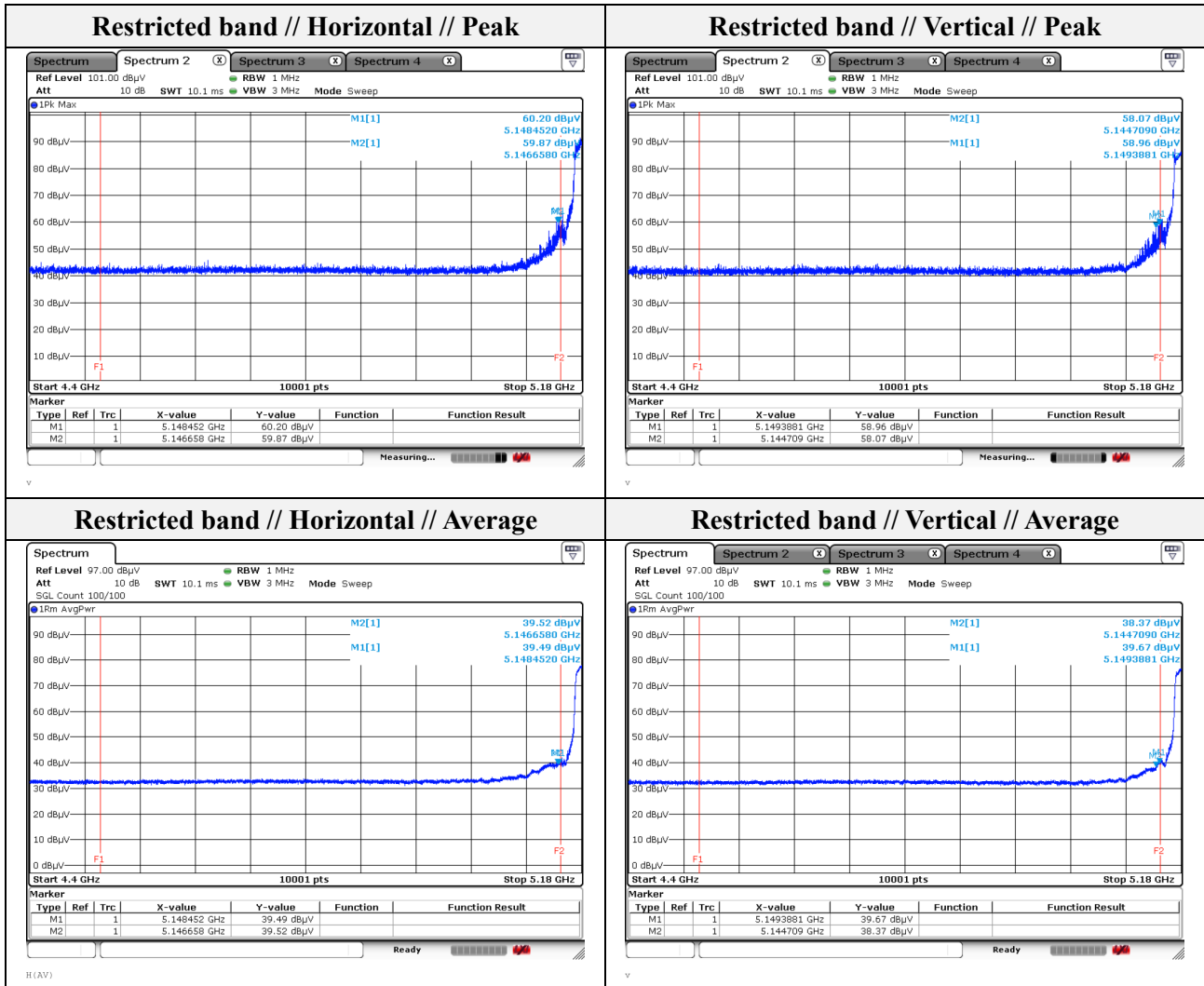
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 144.71	58.07	Peak	V	6.00	-	64.07	74.00	9.93
5 144.71	38.37	Average	V	6.00	0.27	44.64	54.00	9.36
5 146.66	59.87	Peak	H	6.00	-	65.87	74.00	8.13
5 146.66	39.52	Average	H	6.00	0.27	45.79	54.00	8.21
5 148.45	60.20	Peak	H	5.99	-	66.19	74.00	7.81
5 148.45	39.49	Average	H	5.99	0.27	45.75	54.00	8.25
5 149.39	58.96	Peak	V	5.99	-	64.95	74.00	9.05
5 149.39	39.67	Average	V	5.99	0.27	45.93	54.00	8.07

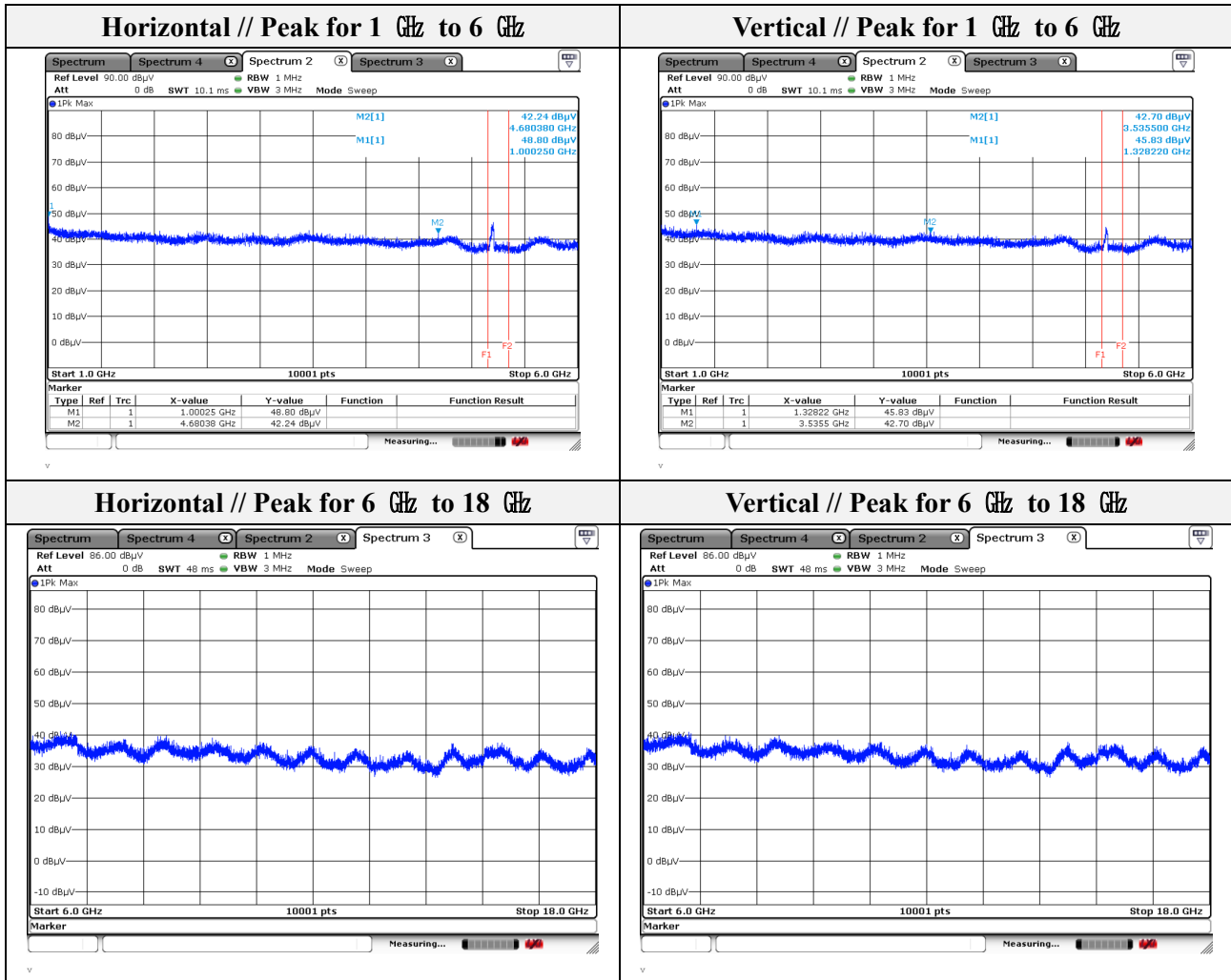
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Note.

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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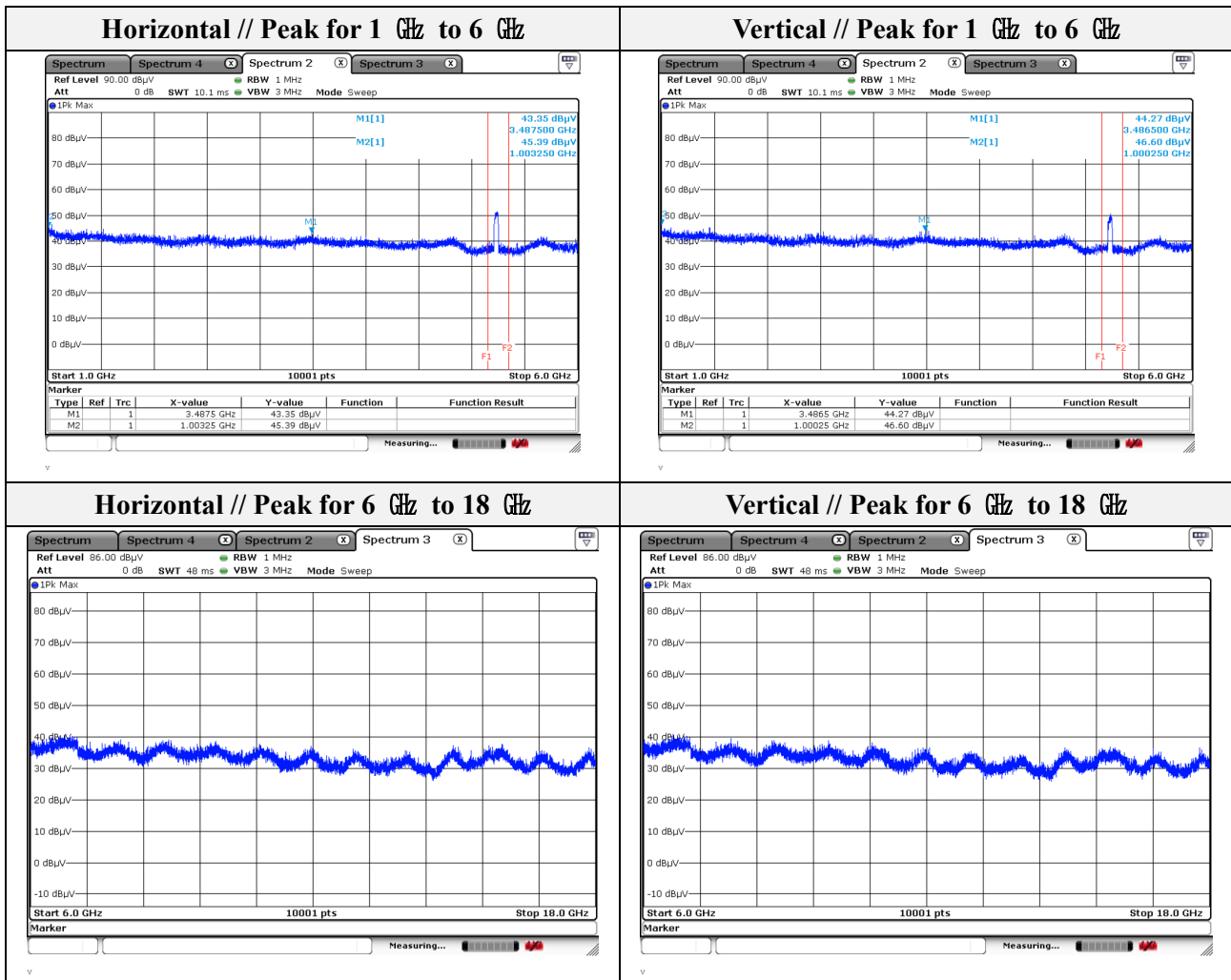
KES-RF-23T0015

Page (77) of (135)

Mode: 802.11n_HT40
Band: UNII-1
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)
1 000.25	46.60	Peak	V	-10.42	-	36.18	74.00	37.82
1 003.25	45.39	Peak	H	-10.40	-	34.99	74.00	39.01
3 486.50	44.27	Peak	V	-0.17		44.10	68.20	24.10
3 487.50	43.35	Peak	H	-0.17		43.18	68.20	25.02



Note.

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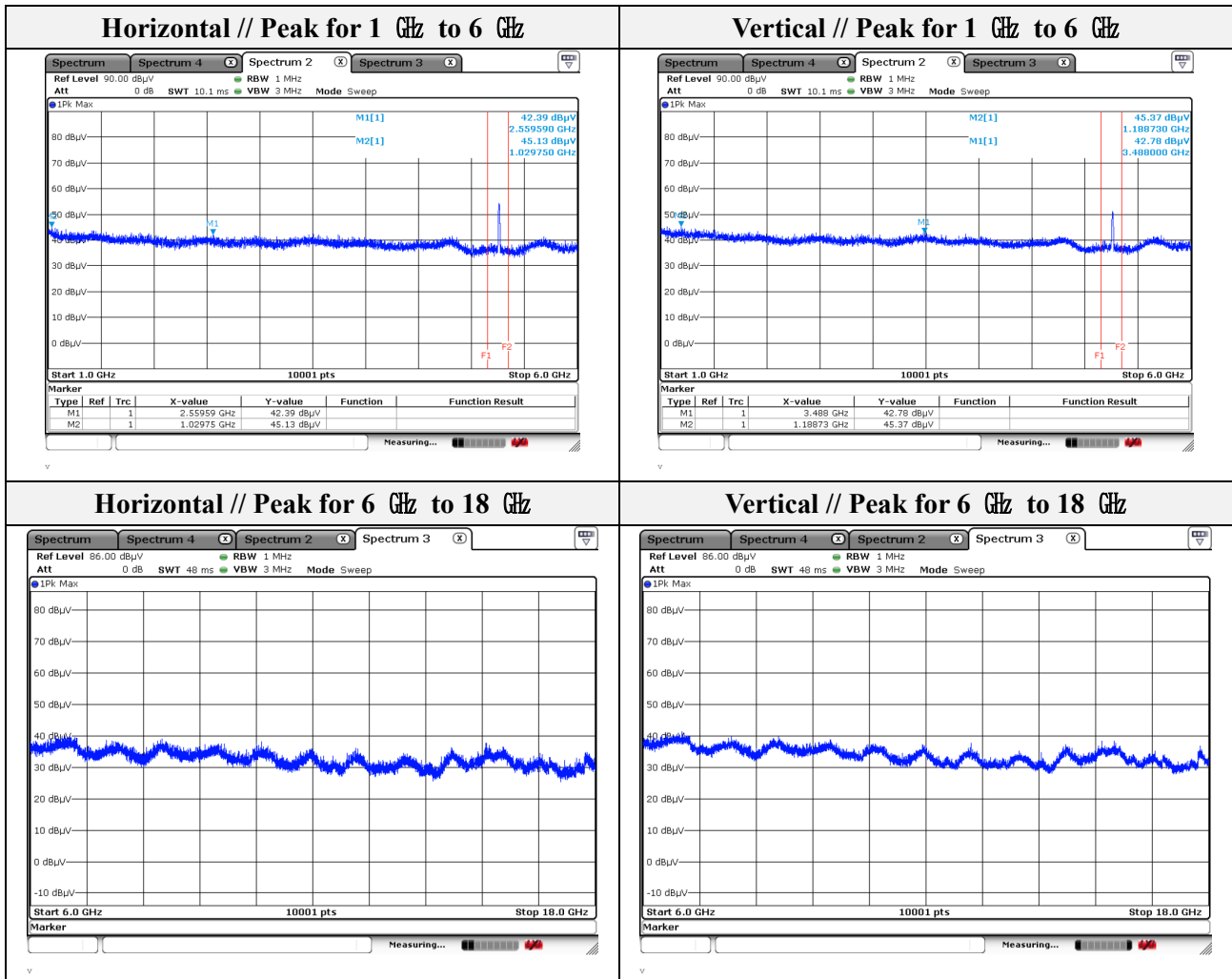
KES-RF-23T0015

Page (78) of (135)

Mode: 802.11a
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 52

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 029.75	45.13	Peak	H	-10.24	-	34.89	74.00	39.11
1 188.73	45.37	Peak	V	-9.27	-	36.10	74.00	37.90
2 559.59	42.39	Peak	H	-1.49	-	40.90	68.20	27.30
3 488.00	42.78	Peak	V	-0.17	-	42.61	68.20	25.59



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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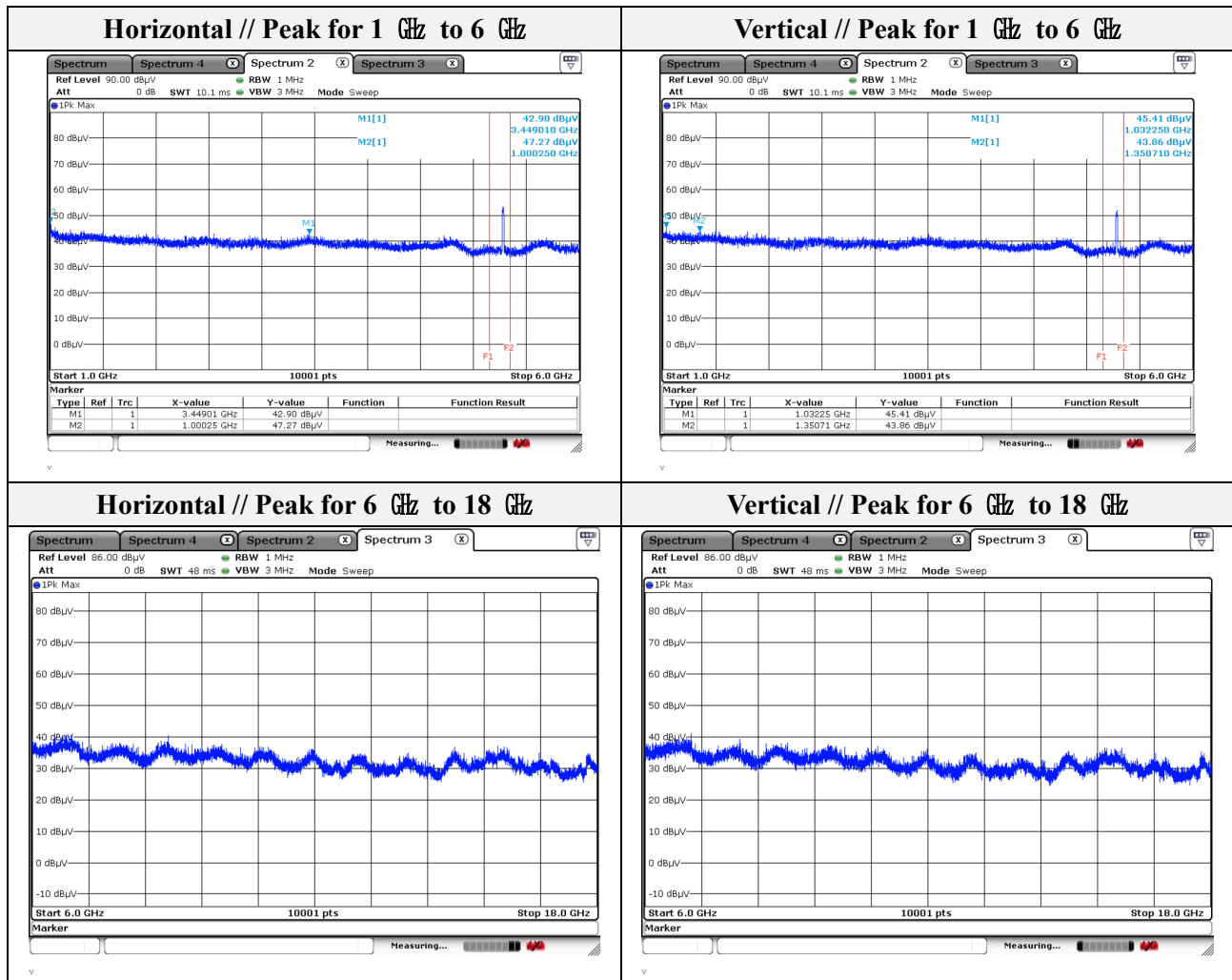
KES-RF-23T0015

Page (79) of (135)

Mode: 802.11a
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 60

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	47.27	Peak	H	-10.42	-	36.85	74.00	37.15
1 032.25	45.41	Peak	V	-10.22	-	35.19	74.00	38.81
1 350.71	43.86	Peak	V	-8.27	-	35.59	74.00	38.41
3 449.01	42.90	Peak	H	-0.17	-	42.73	68.20	25.47



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Report No.:
KES-RF-23T0015
Page (80) of (135)

Mode: 802.11a
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 64

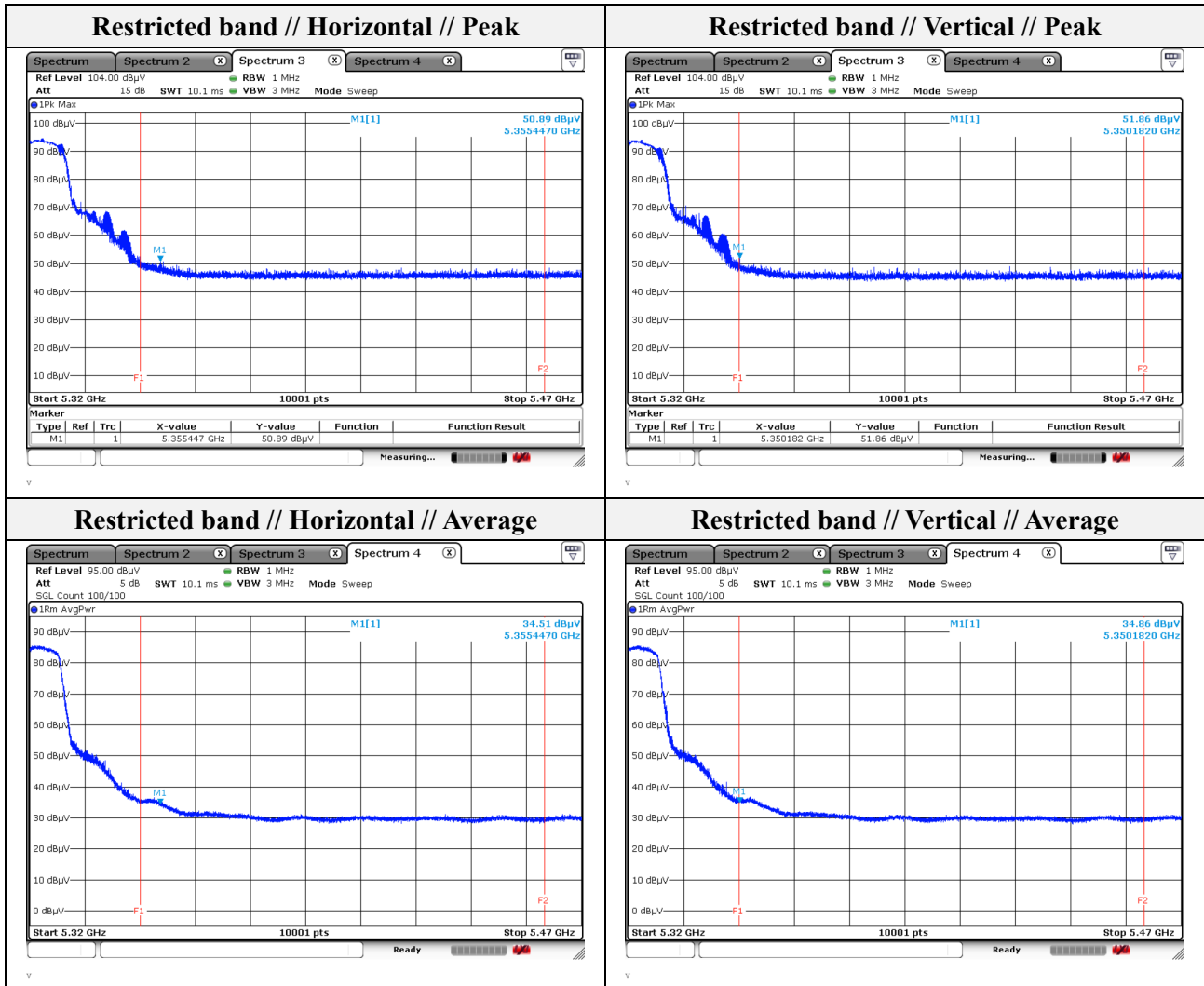
- Spurious

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)
1 009.25	44.87	Peak	H	-10.36	-	34.51	74.00	39.49
1 330.72	45.38	Peak	V	-8.39	-	36.99	74.00	37.01
2 441.11	46.49	Peak	V	-1.67	-	44.82	68.20	23.38
3 547.00	44.68	Peak	H	0.10	-	44.78	68.20	23.42

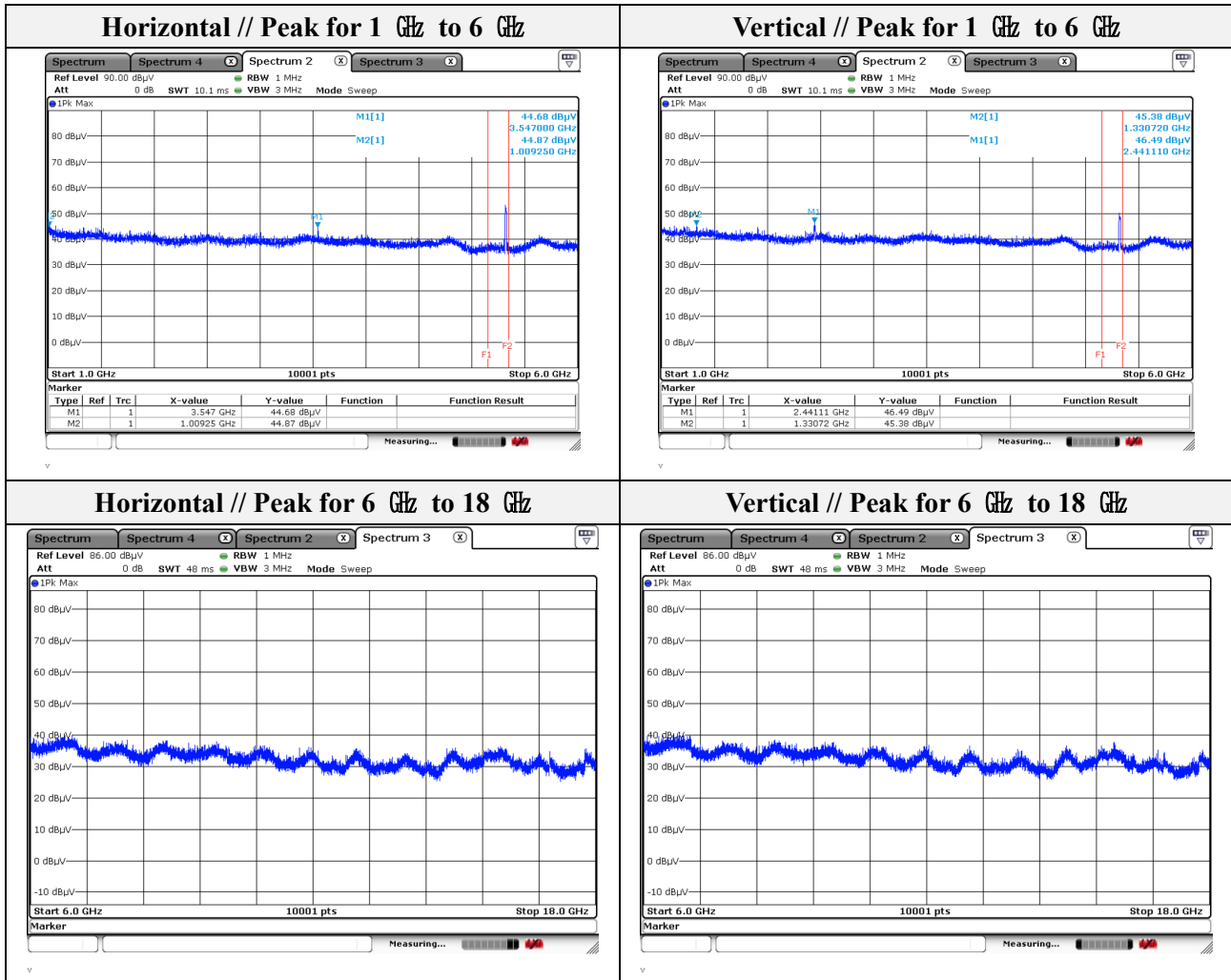
- Band edge

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)
5 350.18	51.86	Peak	V	6.53	-	58.39	74.00	15.61
5 350.18	34.86	Average	V	6.53	0.18	41.57	54.00	12.43
5 355.45	50.89	Peak	H	6.55	-	58.11	74.00	15.89
5 355.45	34.51	Average	H	6.55	0.18	41.24	54.00	12.76

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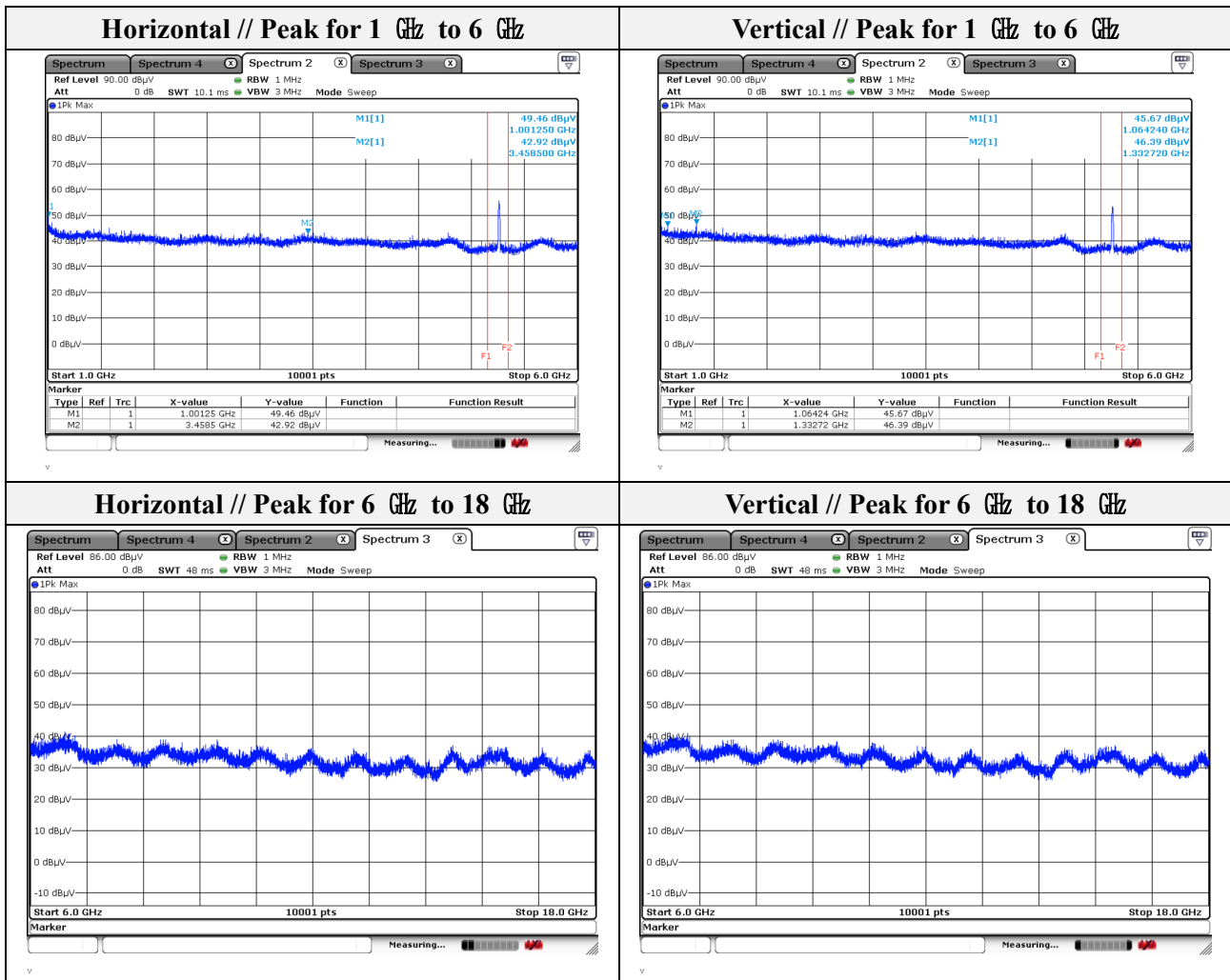
KES-RF-23T0015

Page (83) of (135)

Mode: 802.11n_HT20
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 52

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.25	49.46	Peak	H	-10.41	-	39.05	74.00	34.95
1 064.24	45.67	Peak	V	-10.03	-	35.64	74.00	38.36
1 332.72	46.39	Peak	V	-8.38	-	38.01	74.00	35.99
3 458.50	42.92	Peak	H	-0.17	-	42.75	68.20	25.45



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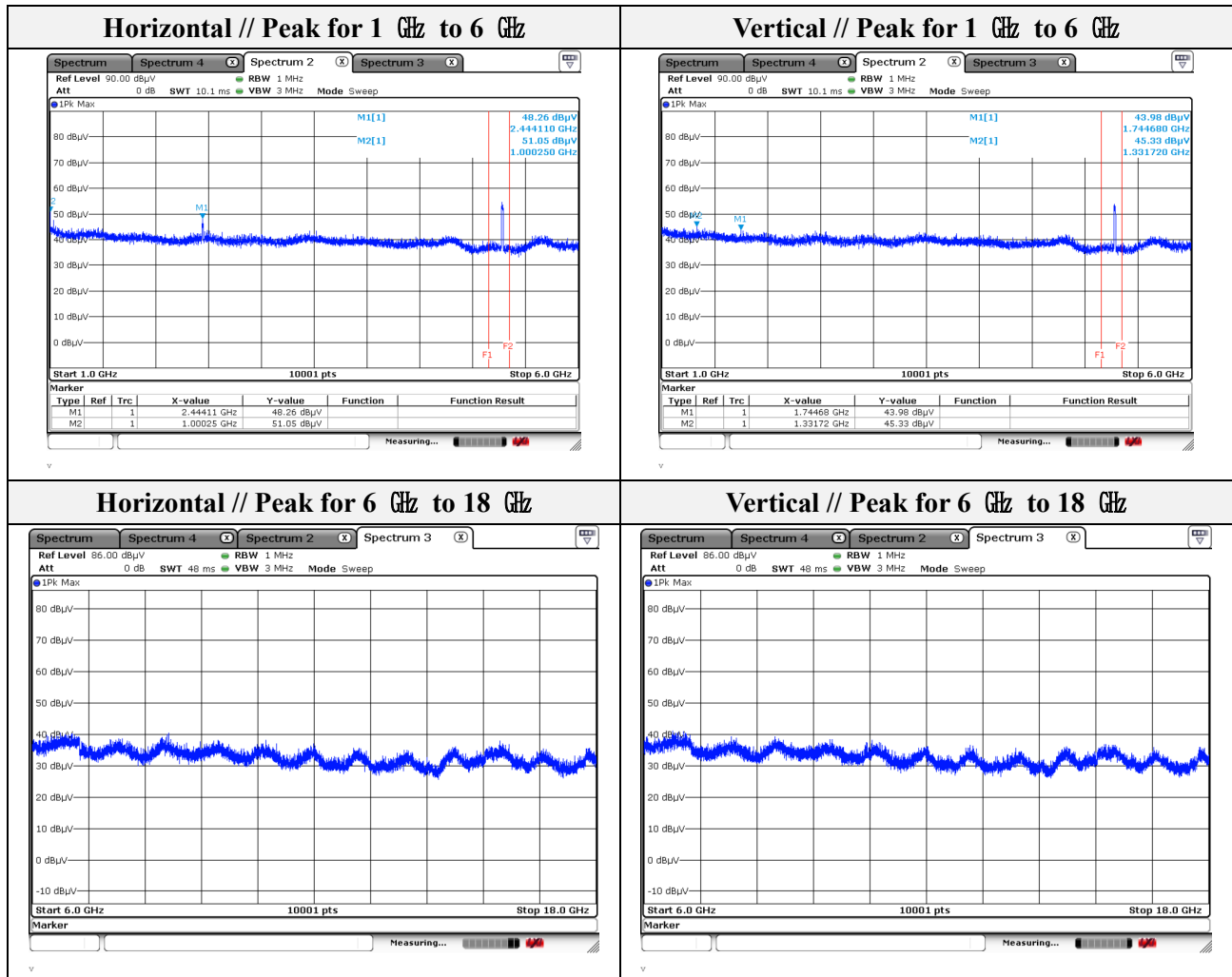
KES-RF-23T0015

Page (84) of (135)

Mode: 802.11n_HT20
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 60

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	51.05	Peak	H	-10.42	-	40.63	74.00	33.37
1 331.72	45.33	Peak	V	-8.39	-	36.94	74.00	37.06
1 744.68	43.98	Peak	V	-4.74	-	39.24	68.20	28.96
2 444.11	48.26	Peak	H	-1.67	-	46.59	68.20	21.61



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Report No.:
KES-RF-23T0015
Page (85) of (135)

Mode: 802.11n_HT20
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 64

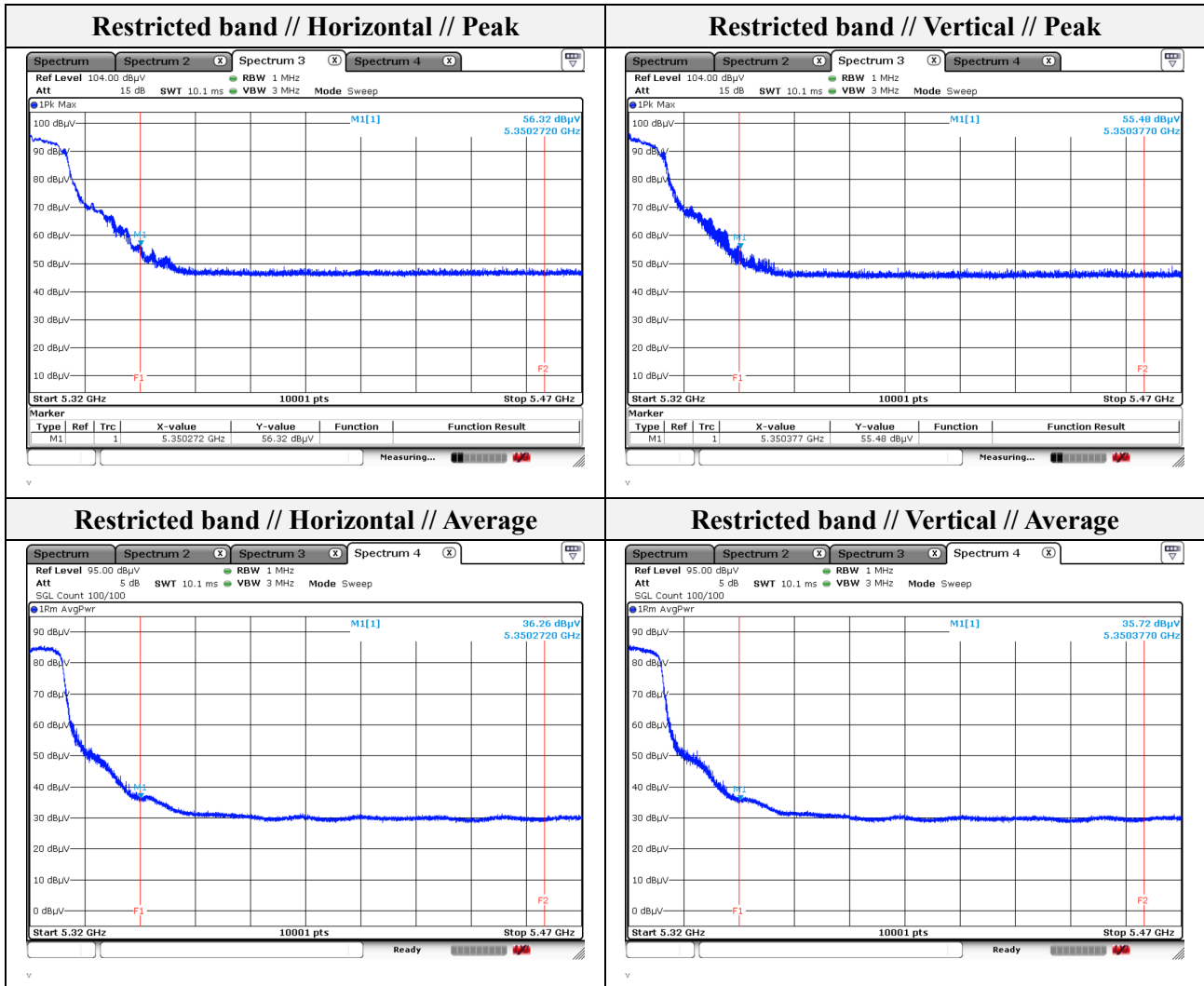
- Spurious

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)
1 000.25	50.92	Peak	H	-10.42	-	40.50	74.00	33.50
1 000.25	47.91	Peak	V	-10.42	-	37.49	74.00	36.51
3 547.00	44.47	Peak	H	0.10	-	44.57	68.20	23.63
3 547.00	43.71	Peak	V	0.10	-	43.81	68.20	24.39

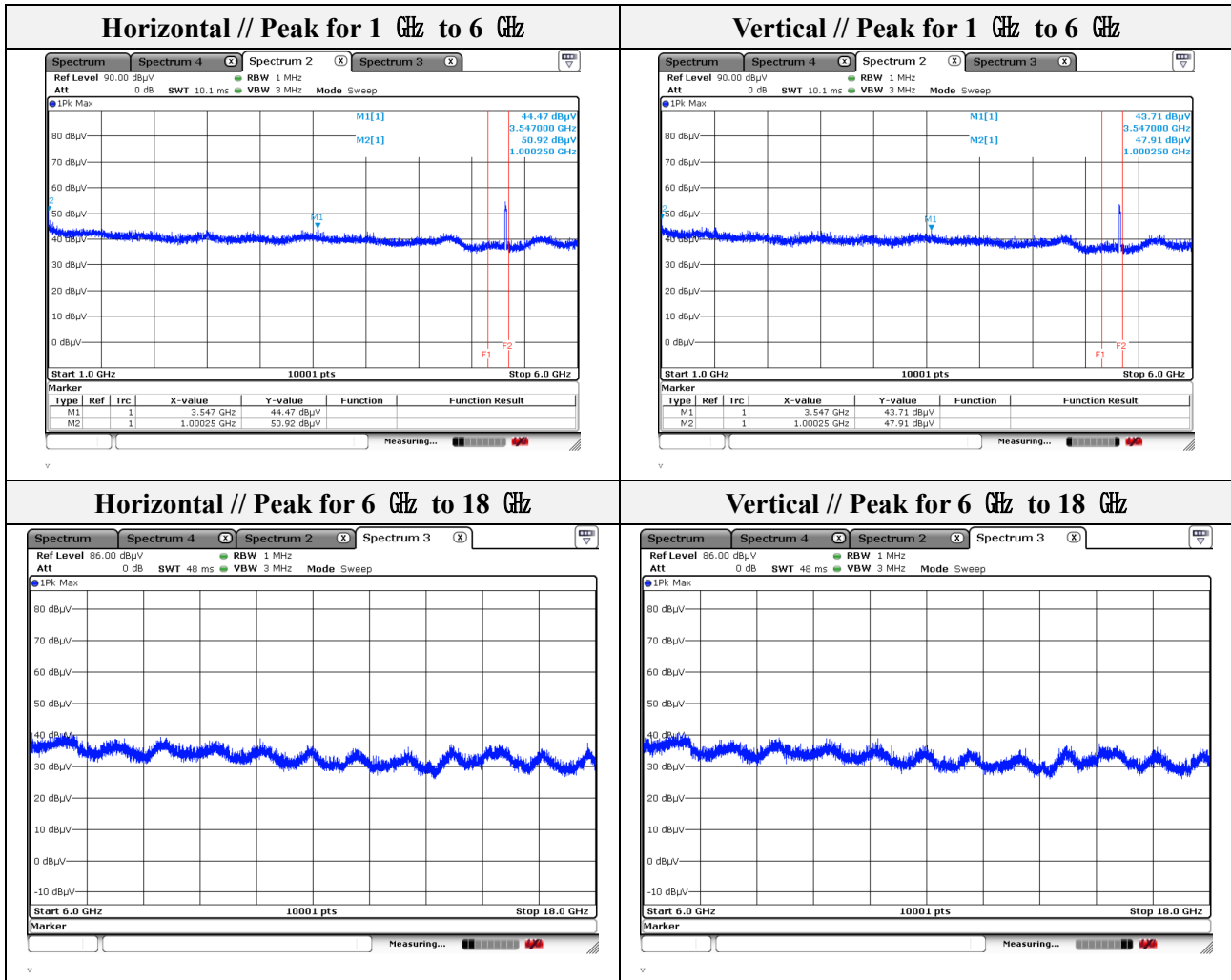
- Band edge

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)
5 350.27	56.32	Peak	H	6.53	-	62.85	74.00	11.15
5 350.27	36.26	Average	H	6.53	0.04	42.83	54.00	11.17
5 350.38	55.48	Peak	V	6.53	-	62.68	74.00	11.32
5 350.38	35.72	Average	V	6.53	0.04	42.29	54.00	11.71

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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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Report No.:

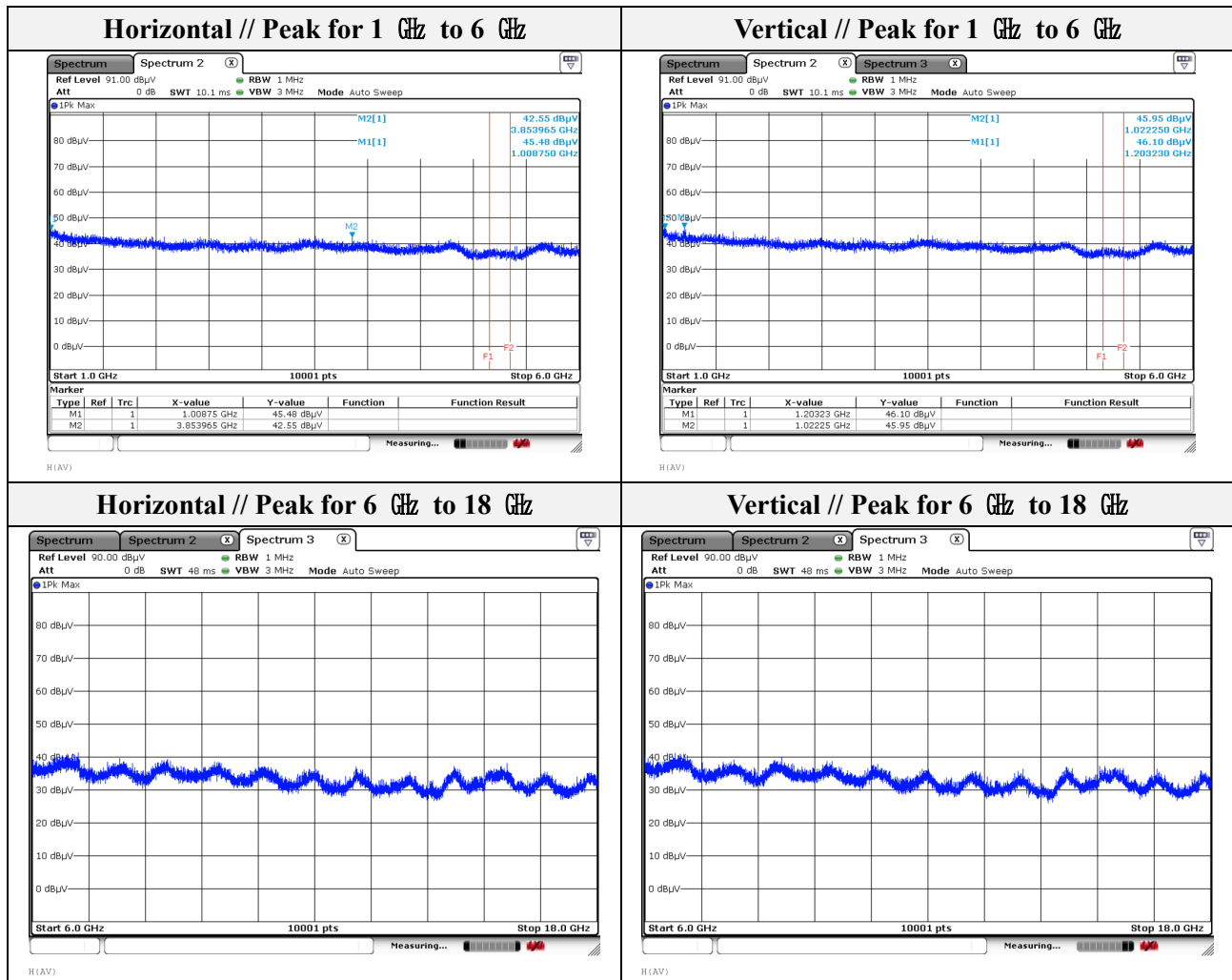
KES-RF-23T0015

Page (88) of (135)

Mode: 802.11n_HT40
Band: UNII-2A
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)
1 008.75	45.48	Peak	H	-10.37	-	35.11	74.00	38.89
1 022.25	45.95	Peak	V	-10.28	-	35.67	74.00	38.33
1 203.23	46.10	Peak	V	-9.18	-	36.92	74.00	37.08
3 853.97	42.55	Peak	H	1.56	-	44.11	74.00	29.89



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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Report No.:
KES-RF-23T0015
Page (89) of (135)

Mode: 802.11n_HT40
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 62

- 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)
1 197.73	46.26	Peak	V	-9.21	-	37.05	74.00	36.95
1 329.22	47.41	Peak	H	-8.40	-	39.01	74.00	34.99
2 528.60	43.31	Peak	V	-1.58	-	41.73	68.20	26.47
2 586.09	43.91	Peak	H	-1.41	-	42.50	68.20	25.70

- 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)
5 351.79	55.89	Peak	V	6.53	-	62.42	74.00	11.58
5 351.79	36.43	Average	V	6.53	0.27	43.23	54.00	10.77
5 352.46	56.80	Peak	H	6.54	-	64.01	74.00	9.99
5 352.46	36.07	Average	H	6.54	0.27	42.88	54.00	11.12

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