



Test results (Above 1 000 MHz)

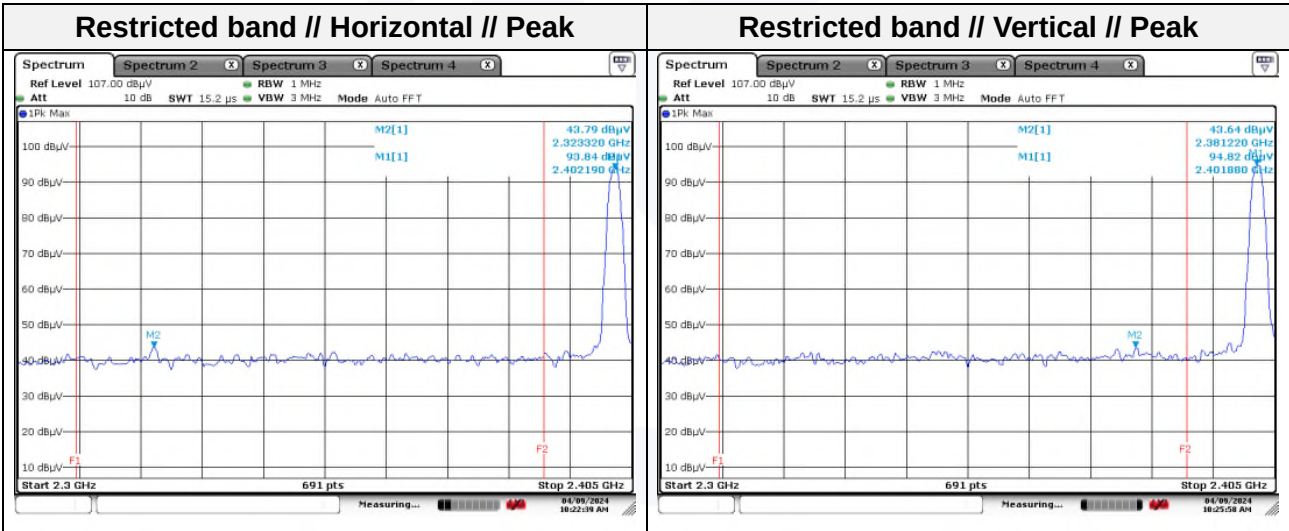
Mode:	LE 1 Mbps
Distance of measurement:	3 meter
Channel:	00

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.40	45.85	Peak	V	-9.39	-	36.46	74.00	37.54
1 018.80	45.94	Peak	H	-9.28	-	36.66	74.00	37.34
1 661.36	45.64	Peak	V	-4.77	-	40.87	74.00	33.13

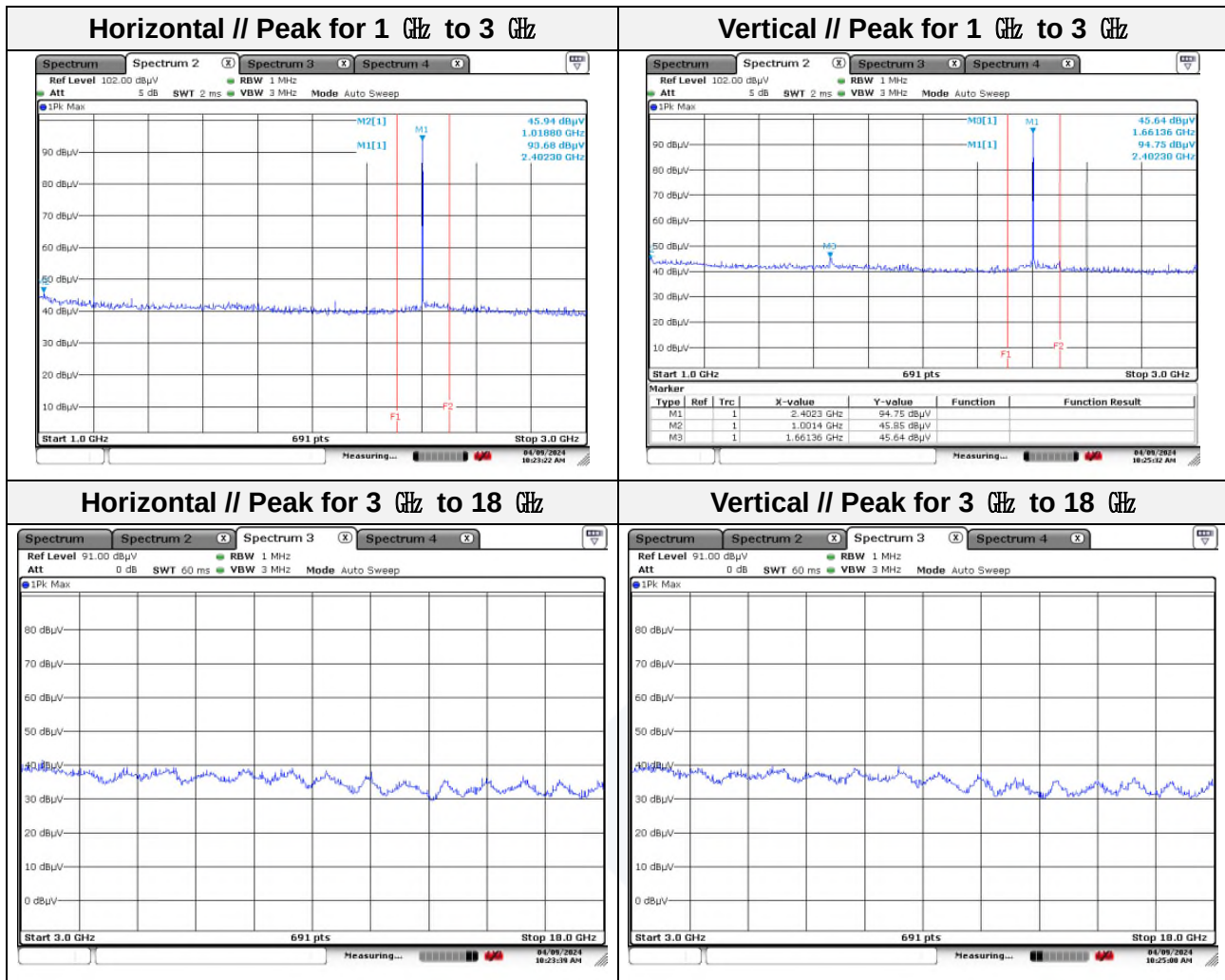
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 323.32	43.79	Peak	H	-0.56	-	43.23	74.00	30.77
2 381.22	43.64	Peak	V	-0.37	-	43.27	74.00	30.73





Report No. : KES-RF240184



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

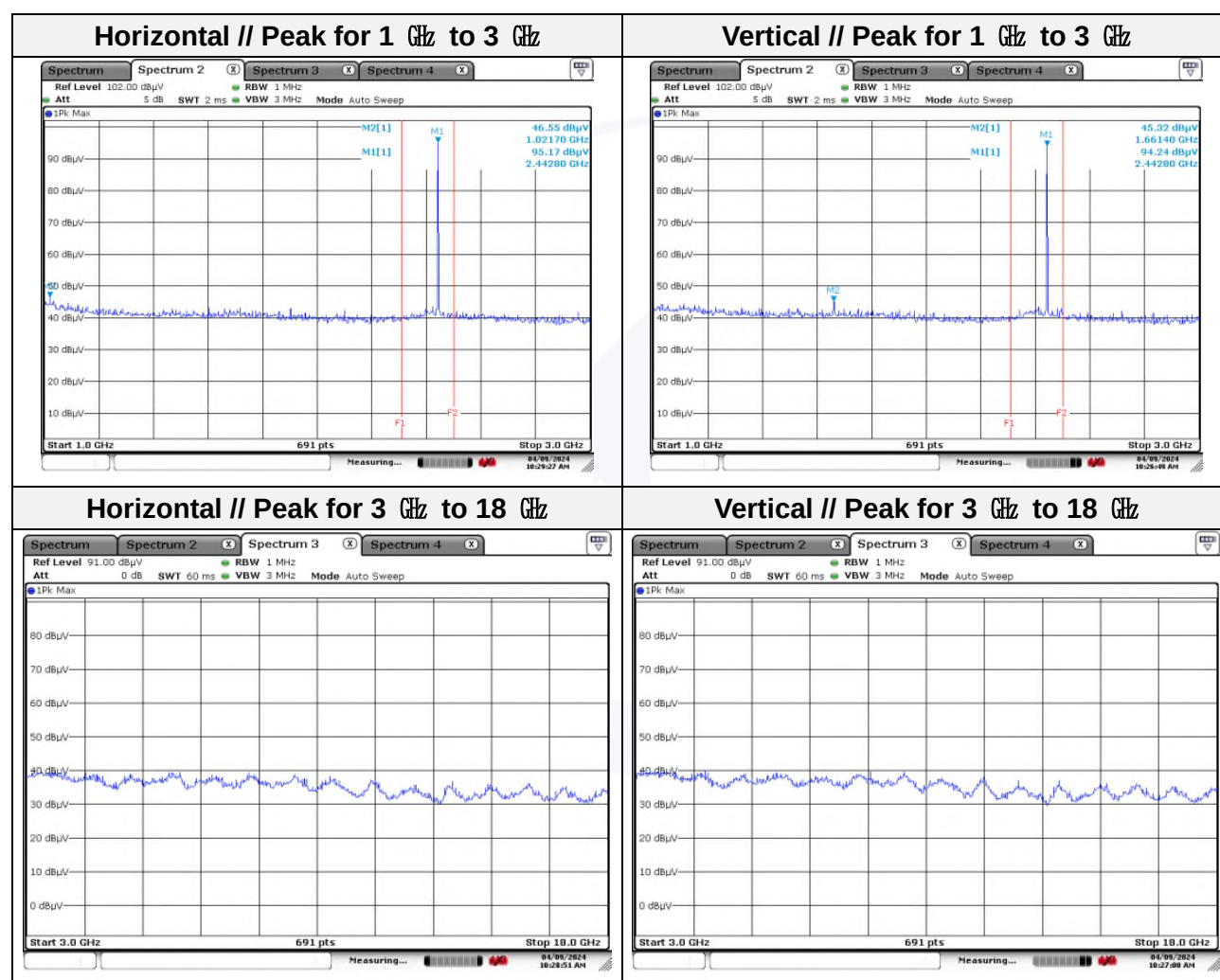


Report No. : KES-RF240184

Mode: LE 1 Mbps
Distance of measurement: 3 meter
Channel: 20

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 021.70	46.55	Peak	H	-9.27	-	37.28	74.00	36.72
1 661.40	45.32	Peak	V	-4.77	-	40.55	74.00	33.45



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

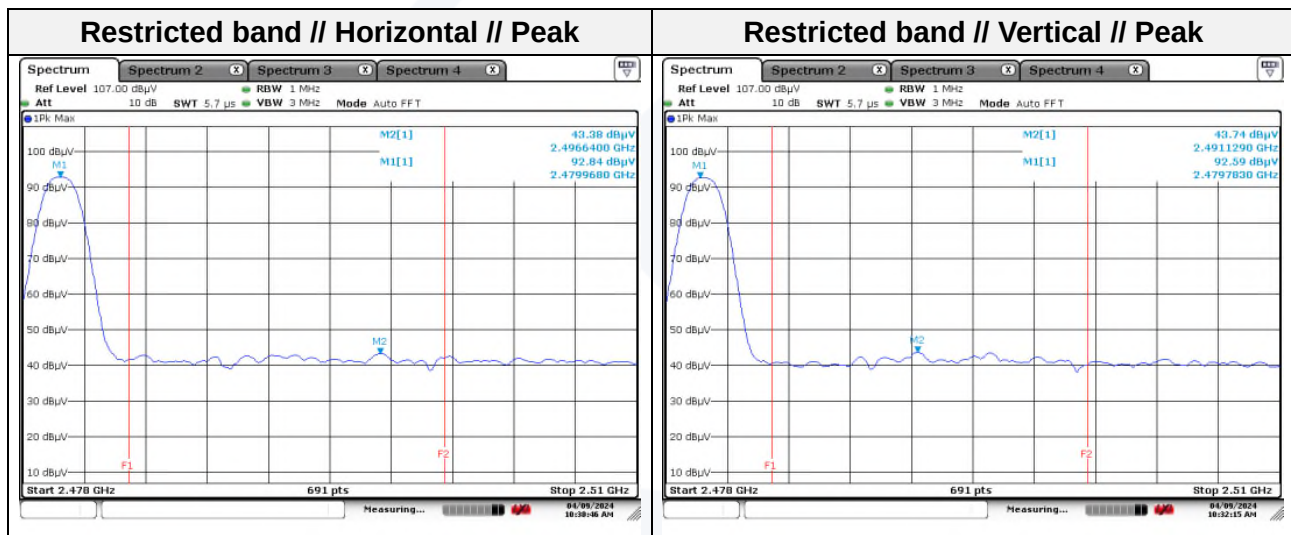
Mode: LE 1 Mbps
Distance of measurement: 3 meter
Channel: 39

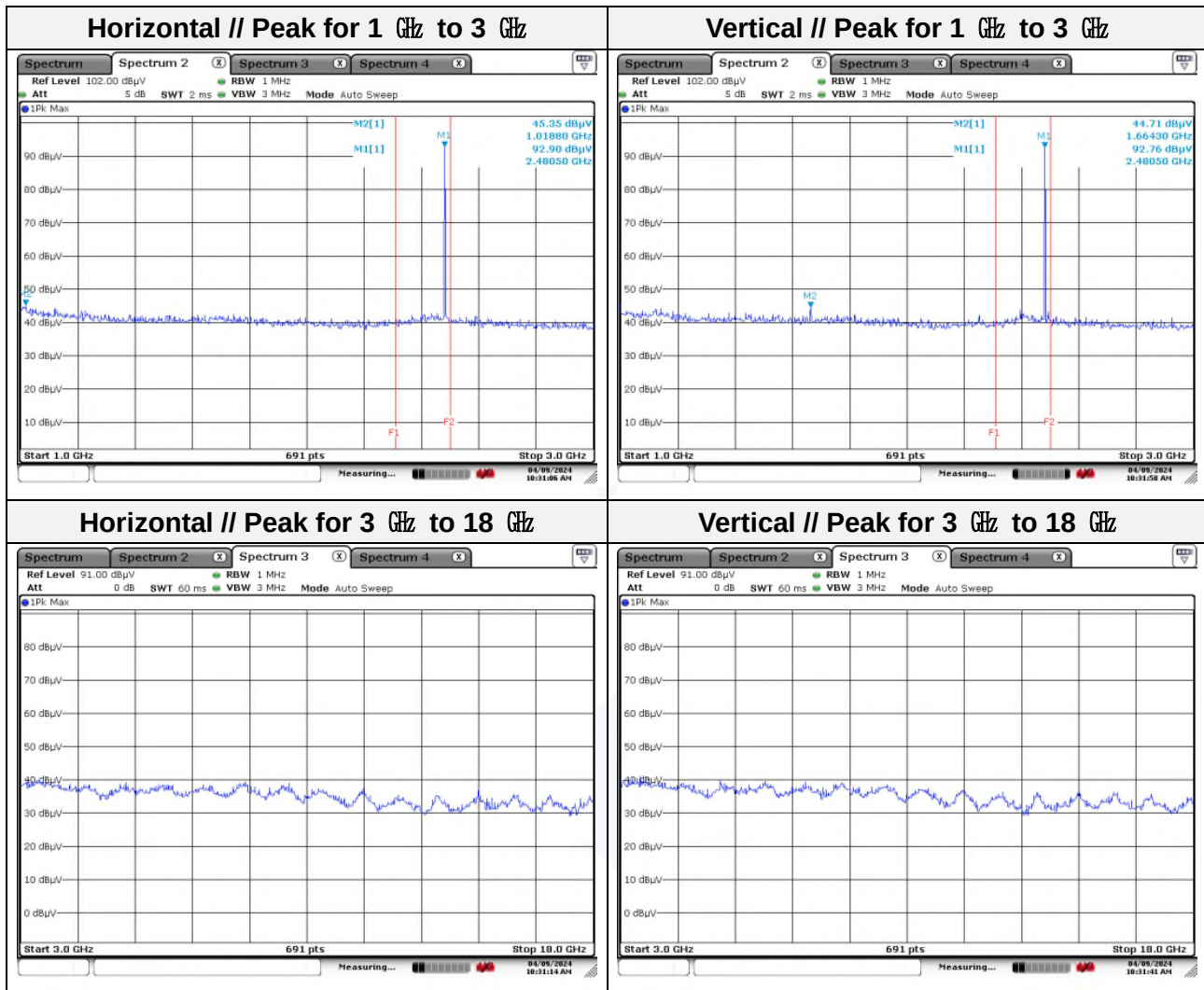
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 018.80	45.35	Peak	H	-9.28	-	36.07	74.00	37.93
1 664.30	44.71	Peak	V	-4.74	-	39.97	74.00	34.03

- 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)
2 491.13	43.74	Peak	V	-0.25	-	43.49	74.00	30.51
2 496.64	43.38	Peak	H	-0.25	-	43.13	74.00	30.87





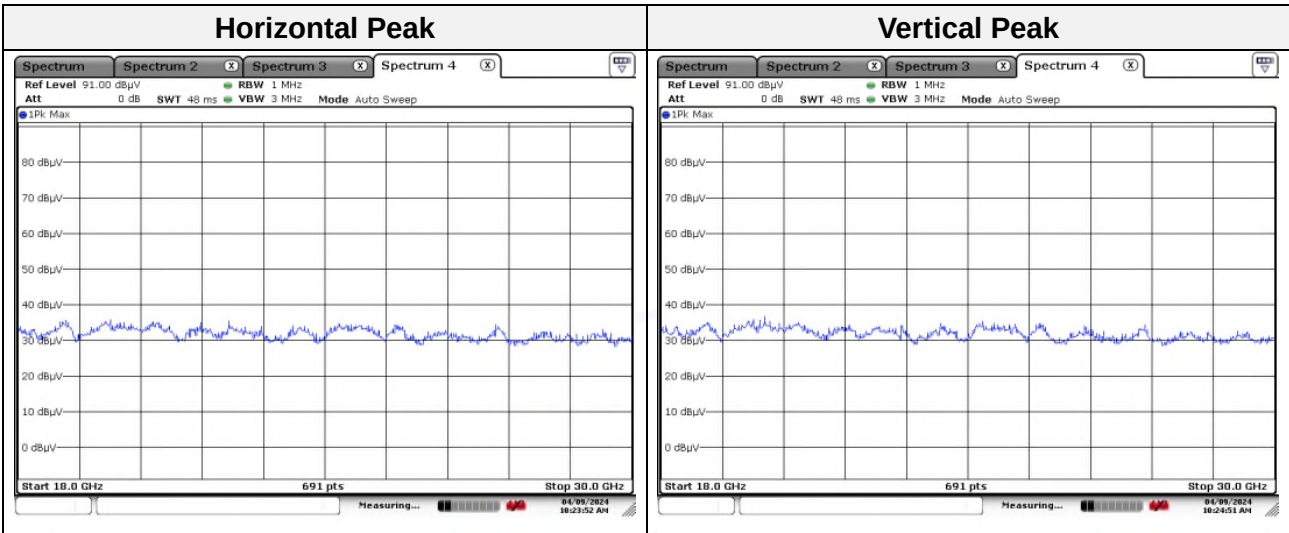
Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Test results (18 GHz to 30 GHz)

Mode: LE 1 Mbps
Distance of measurement: 3 meter
Channel: 39 (Worst case)



Note.
No spurious emission were detected above 18 GHz.



Report No. : KES-RF240184

Mode: 802.11b

Distance of measurement: 3 meter

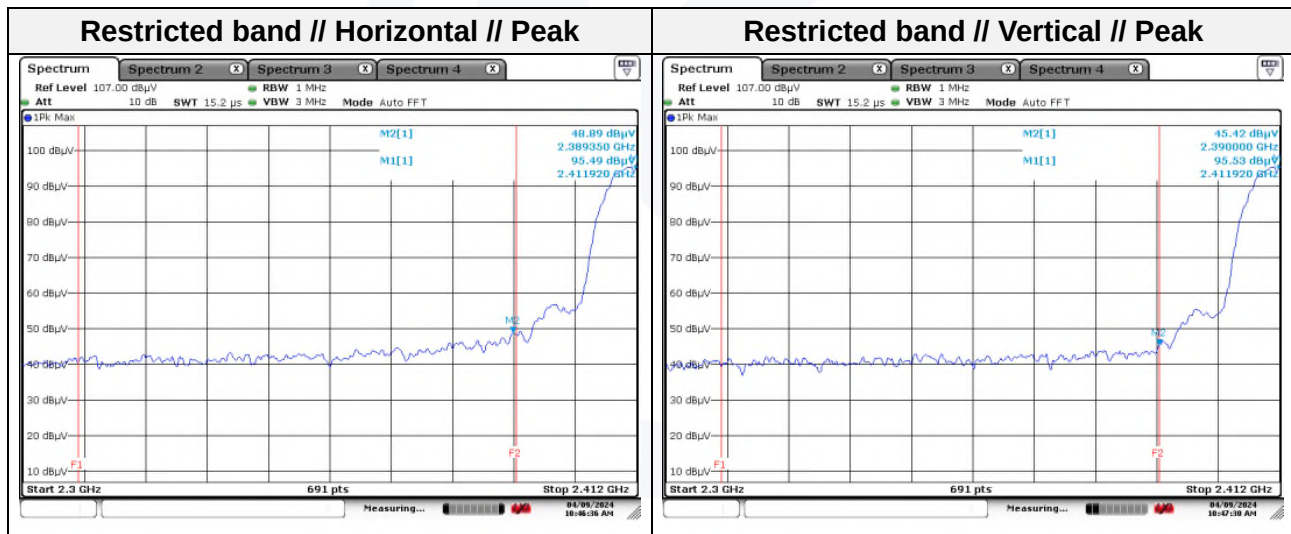
Channel: 01

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 007.24	45.82	Peak	H	-9.36	-	36.46	74.00	37.54
1 131.70	44.82	Peak	V	-8.57	-	36.25	74.00	37.75
4 834.00	40.85	Peak	H	6.51	-	47.36	74.00	26.64
4 834.00	43.97	Peak	V	6.51	-	50.48	74.00	23.52

- 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)
2 389.35	48.89	Peak	H	-0.34	-	48.55	74.00	25.45
2 390.00	45.42	Peak	V	-0.34	-	45.08	74.00	28.92



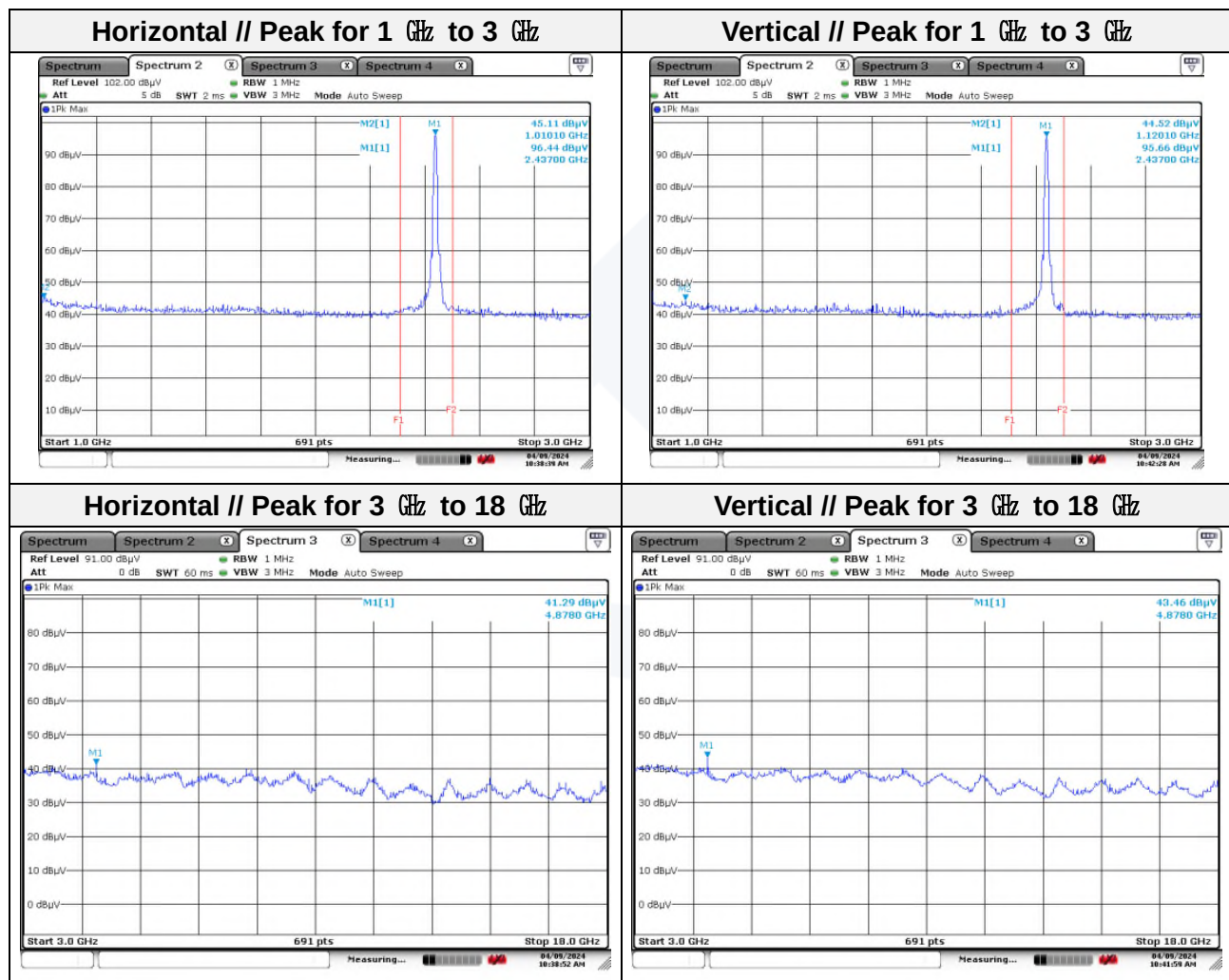


Report No. : KES-RF240184

Mode: 802.11b
Distance of measurement: 3 meter
Channel: 06

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 010.10	45.11	Peak	H	-9.34	-	35.77	74.00	38.23
1 120.10	44.52	Peak	V	-8.65	-	35.87	74.00	38.13
4 878.00	41.29	Peak	H	6.83	-	48.12	74.00	25.88
4 878.00	43.46	Peak	V	6.83	-	50.29	74.00	23.71



Note.

1. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

Mode: 802.11b

Distance of measurement: 3 meter

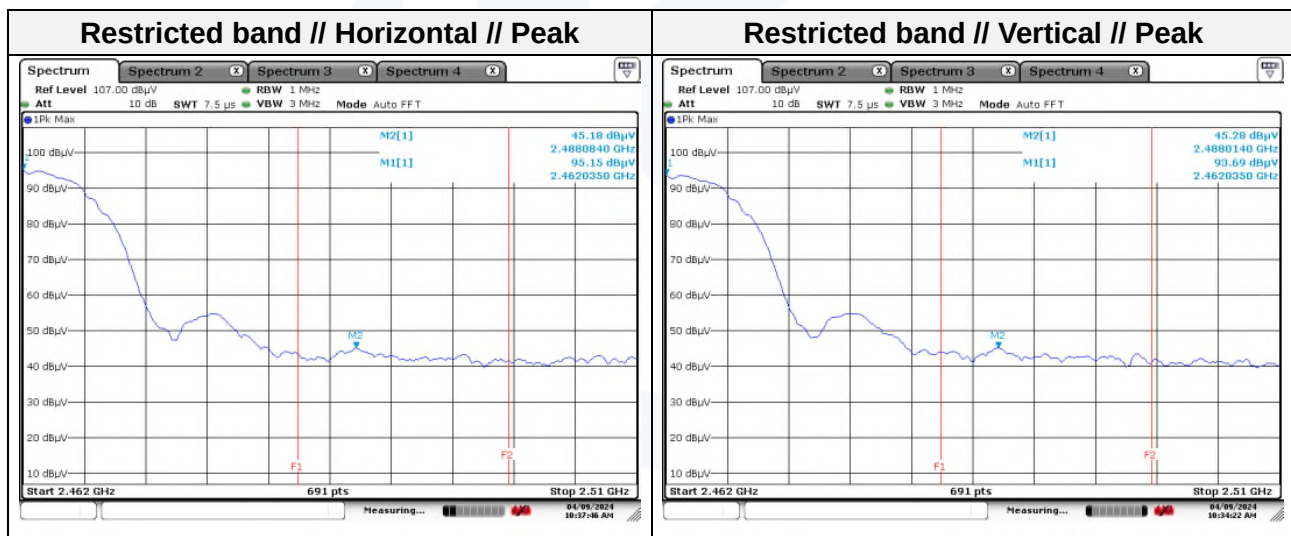
Channel: 11

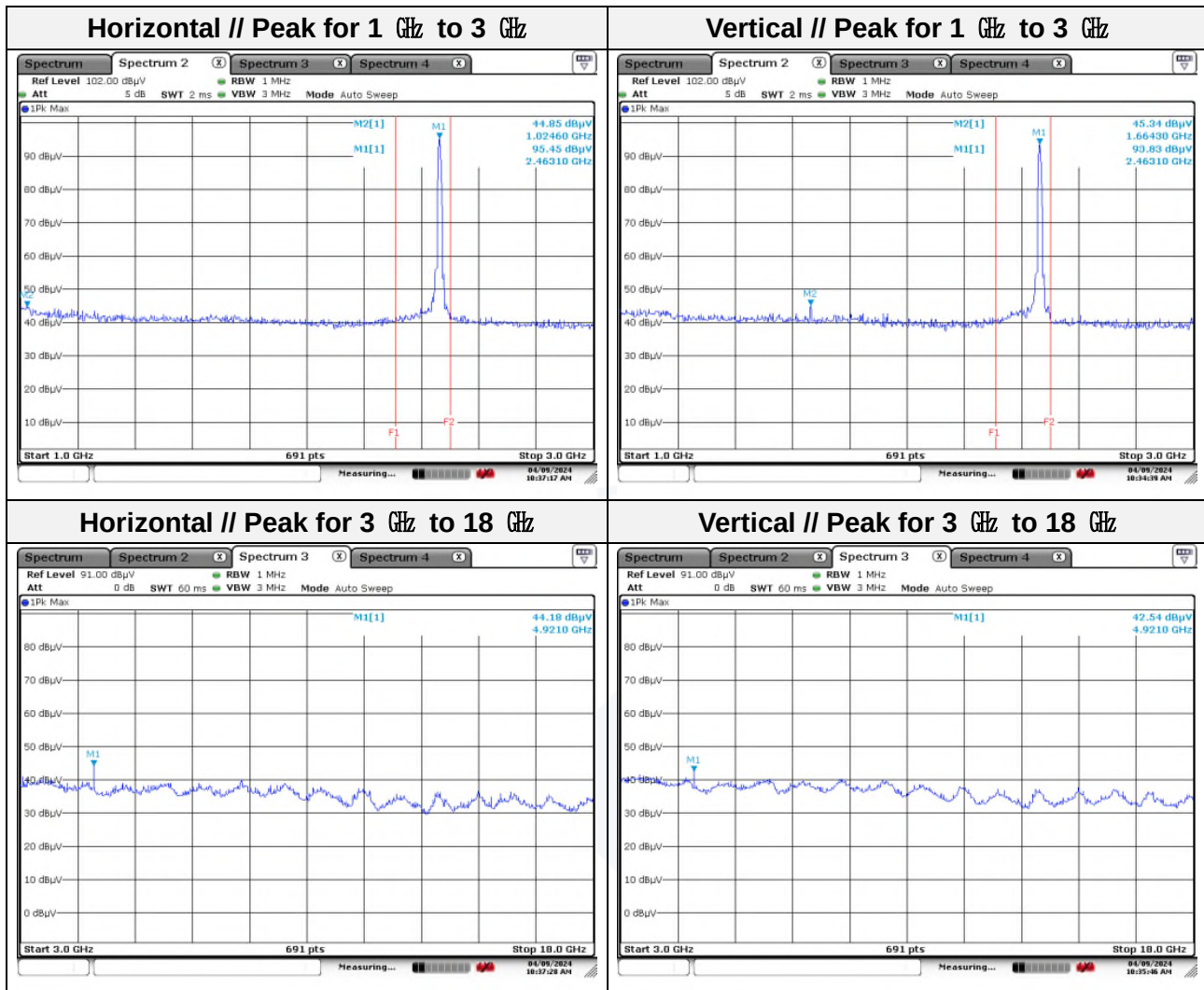
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 024.60	44.85	Peak	H	-9.25	-	35.60	74.00	38.40
1 664.30	45.34	Peak	V	-4.74	-	40.60	74.00	33.40
4 921.00	44.18	Peak	H	7.15	-	51.33	74.00	22.67
4 921.00	42.54	Peak	V	7.15	-	49.69	74.00	24.31

- 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)
2 488.01	45.28	Peak	V	-0.25	-	45.03	74.00	28.97
2 488.08	45.18	Peak	H	-0.25	-	44.93	74.00	29.07





Note.

1. Average test would be performed if the peak result were greater than the average limit.



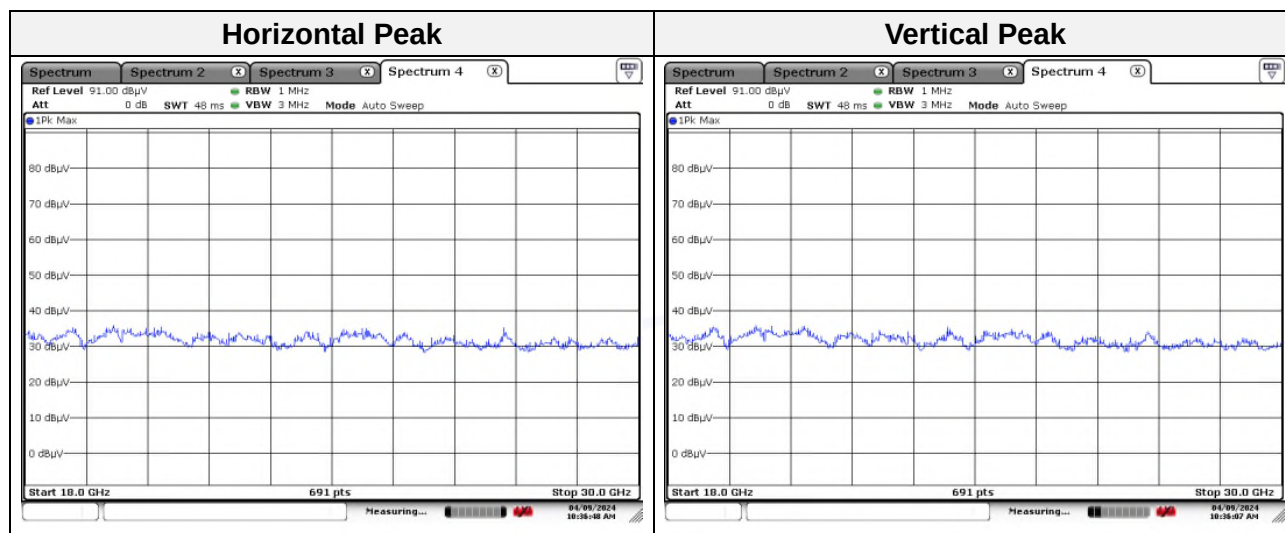
Report No. : KES-RF240184

Test results (18 GHz to 30 GHz)

Mode: 802.11b

Distance of measurement: 3 meter

Channel: 11 (Worst case)



Note.

No spurious emission were detected above 18 GHz.



Report No. : KES-RF240184

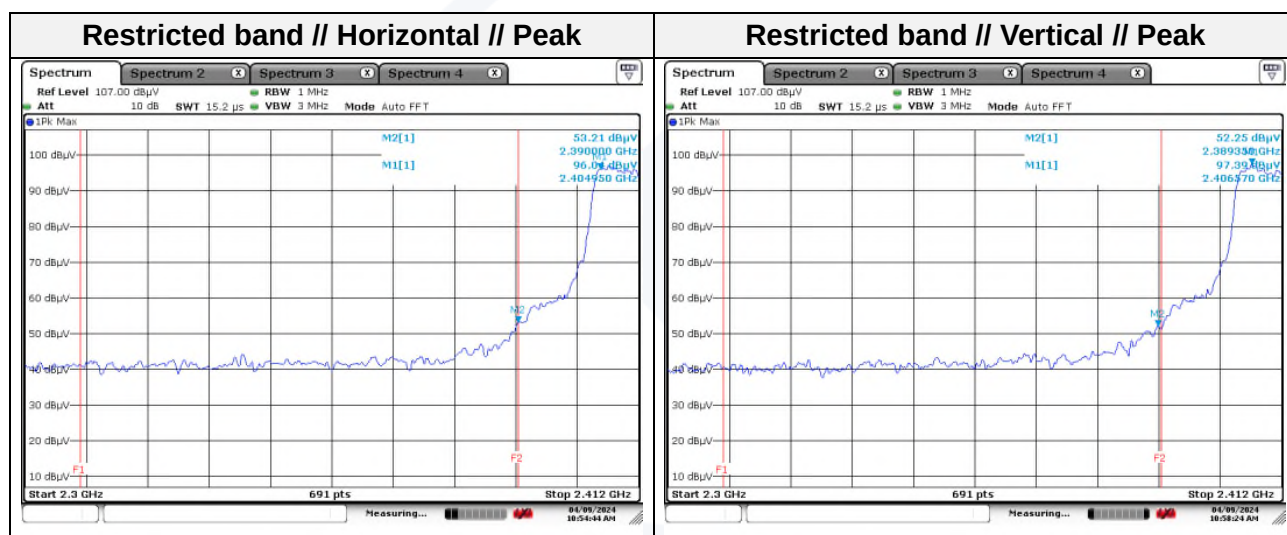
Mode: 802.11g
Distance of measurement: 3 meter
Channel: 01

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 007.24	46.09	Peak	H	-9.36	-	36.73	74.00	37.27
1 664.25	45.44	Peak	V	-4.75	-	40.69	74.00	33.31

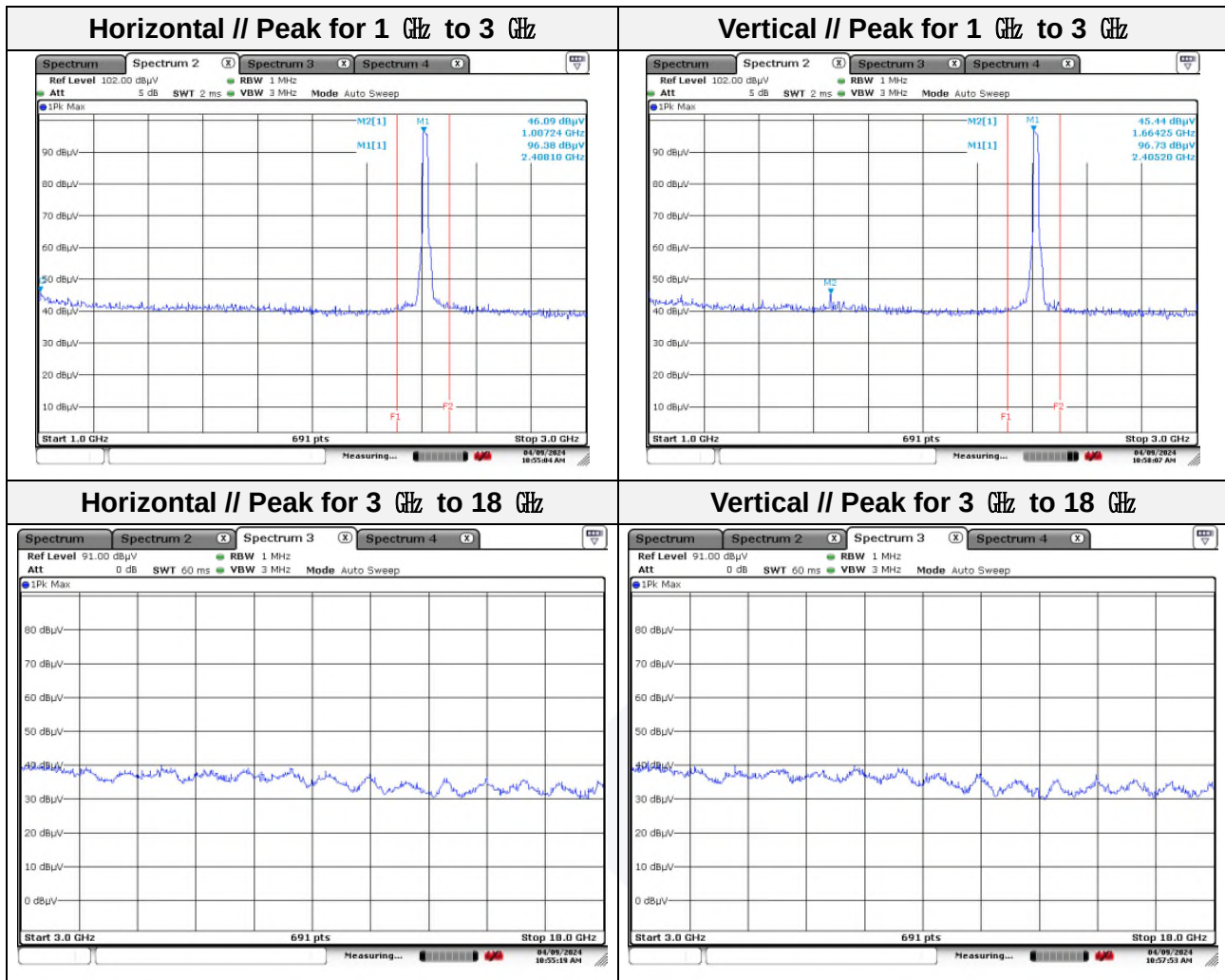
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 389.35	52.25	Peak	V	-0.34	-	51.91	74.00	22.09
2 390.00	53.21	Peak	H	-0.34	-	52.87	74.00	21.13





Report No. : KES-RF240184



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

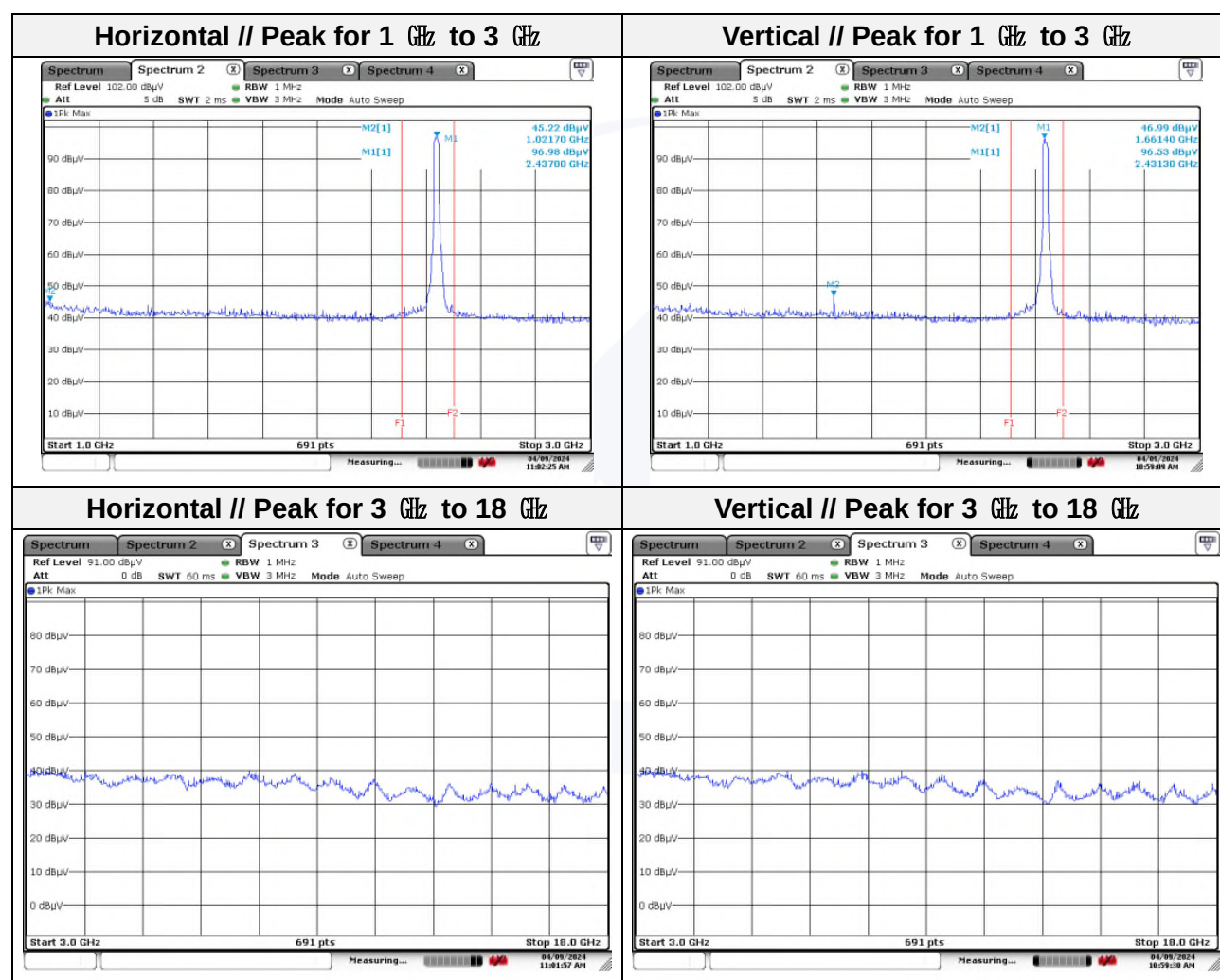


Report No. : KES-RF240184

Mode: 802.11g
Distance of measurement: 3 meter
Channel: 06

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 021.70	45.22	Peak	H	-9.27	-	35.95	74.00	38.05
1 661.40	46.99	Peak	V	-4.77	-	42.22	74.00	31.78



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

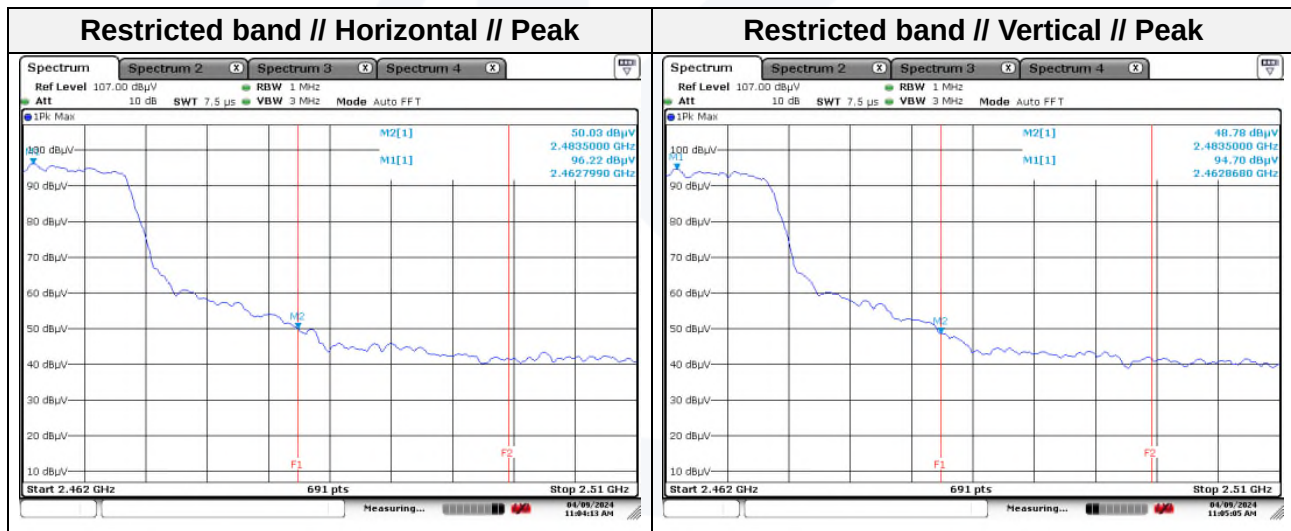
Mode: 802.11g
Distance of measurement: 3 meter
Channel: 11

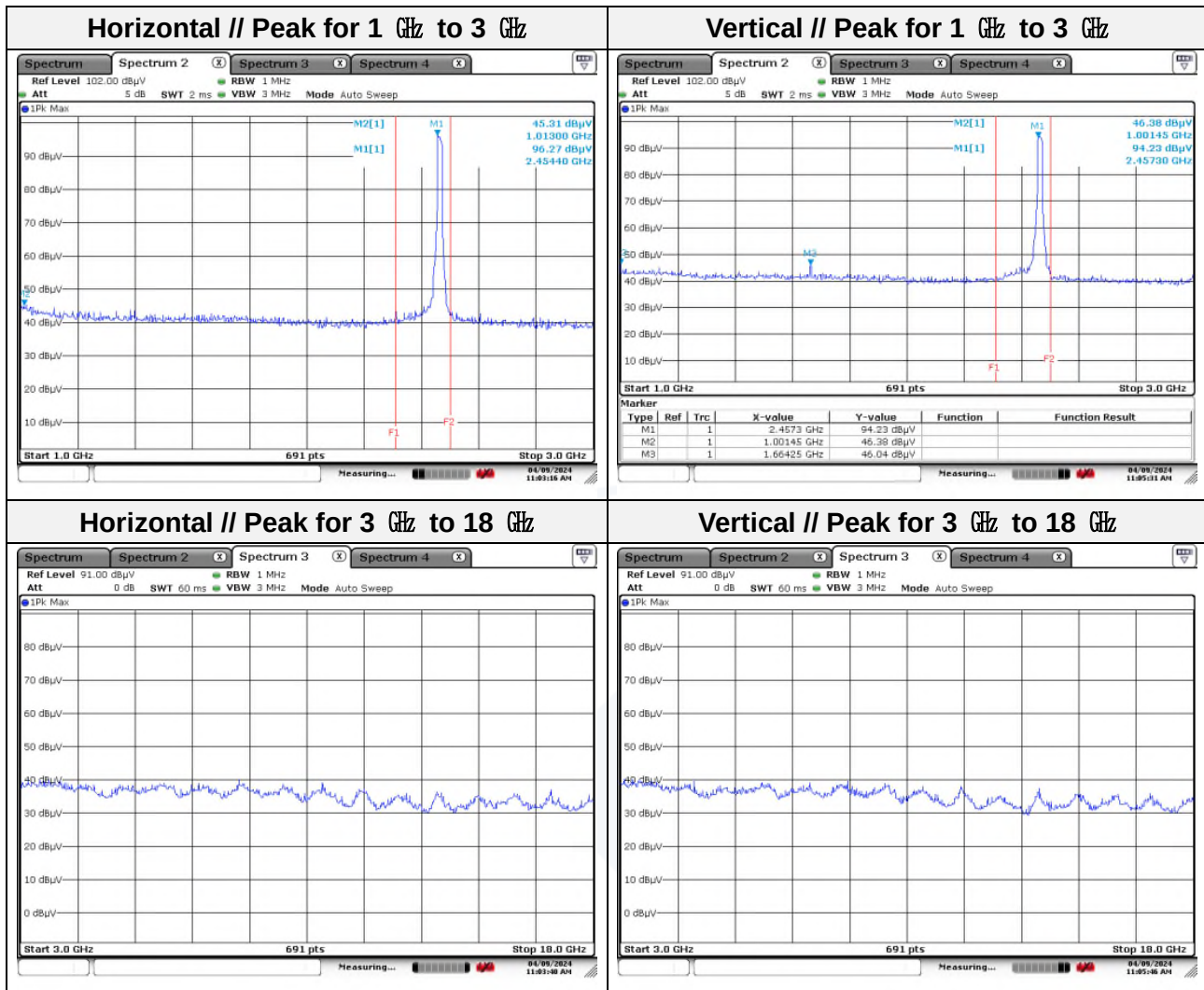
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.45	46.38	Peak	V	-9.39	-	36.99	74.00	37.01
1 013.00	45.31	Peak	H	-9.32	-	35.99	74.00	38.01
1 664.25	46.04	Peak	V	-4.75	-	41.29	74.00	32.71

- 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)
2 483.50	50.03	Peak	H	-0.26	-	49.77	74.00	24.23
2 483.50	48.78	Peak	V	-0.26	-	48.52	74.00	25.48





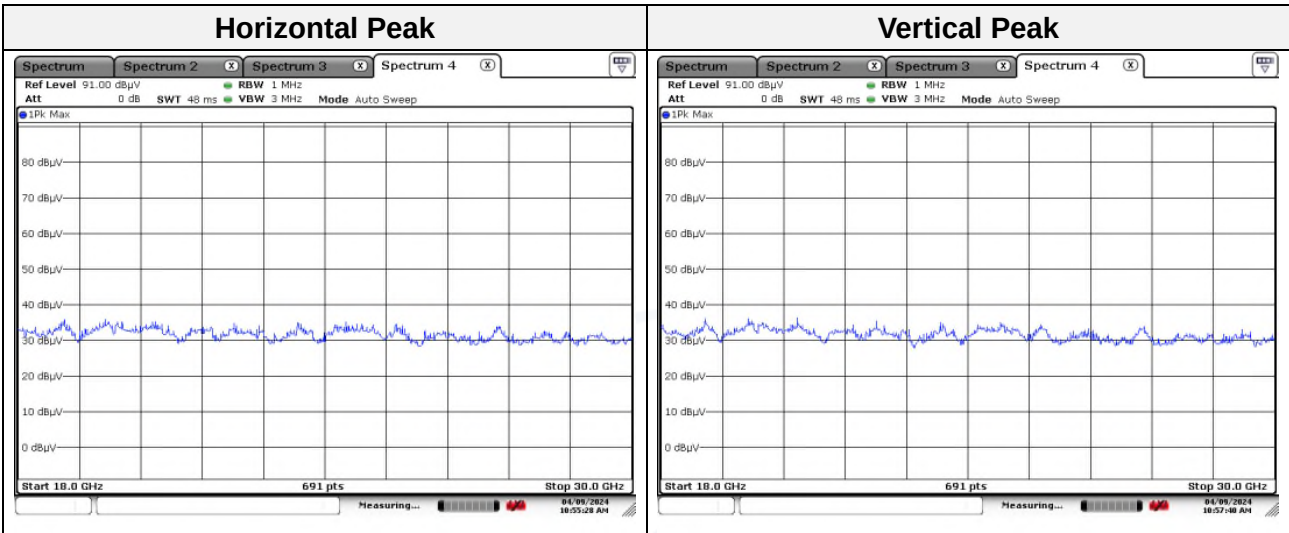
Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Test results (18 GHz to 30 GHz)

Mode:	802.11g
Distance of measurement:	3 meter
Channel:	11 (Worst case)



Note.
No spurious emission were detected above 18 GHz.



Report No. : KES-RF240184

Mode: 802.11n_HT20

Distance of measurement: 3 meter

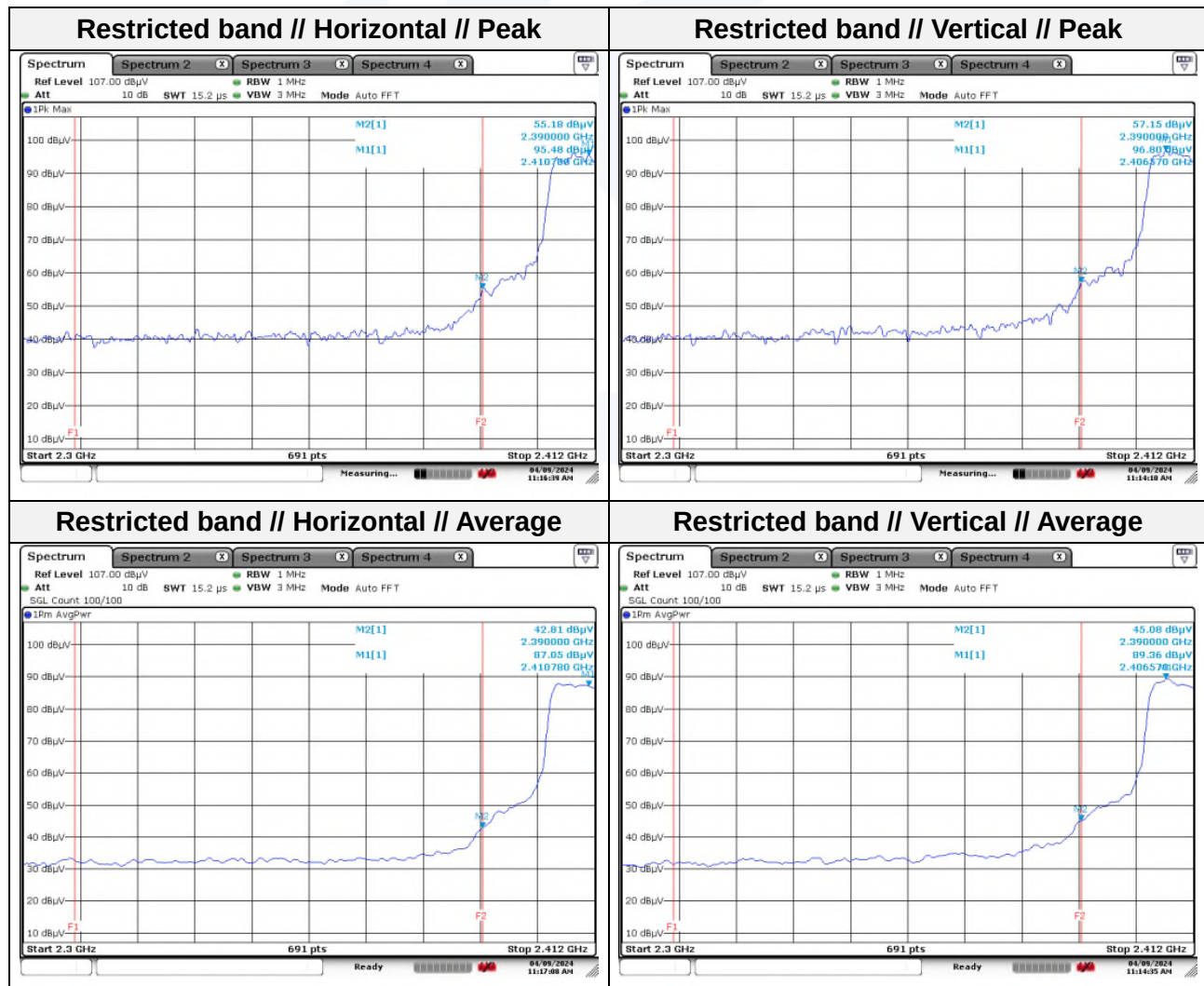
Channel: 01

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.45	46.90	Peak	V	-9.39	-	37.51	74.00	36.49
1 015.92	44.91	Peak	H	-9.30	-	35.61	74.00	38.39

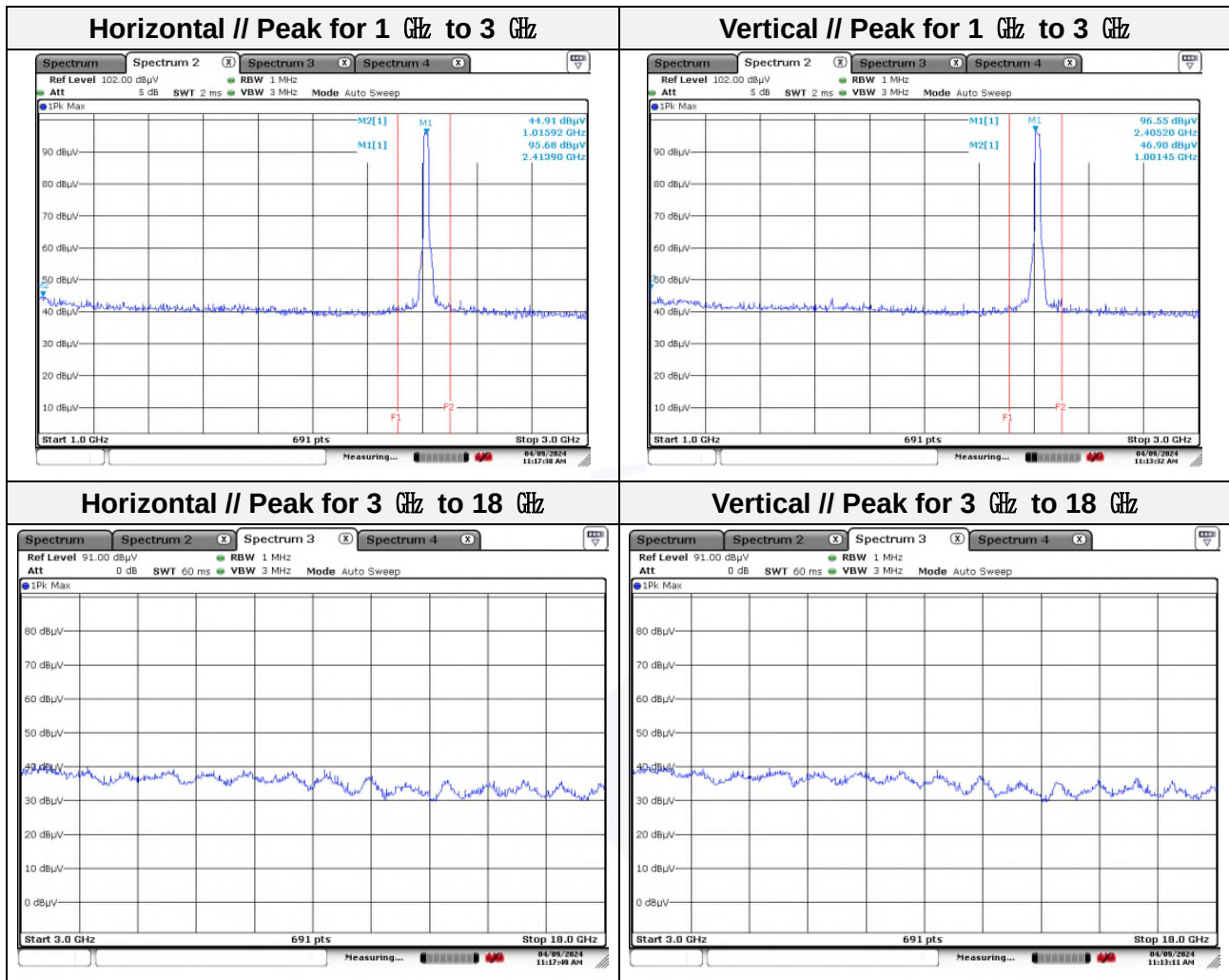
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 390.00	55.18	Peak	H	-0.34	-	54.84	74.00	19.16
2 390.00	42.81	Average	H	-0.34	0.00	42.47	54.00	11.53
2 390.00	57.15	Peak	V	-0.34	-	56.81	74.00	17.19
2 390.00	45.08	Average	V	-0.34	0.00	44.74	54.00	9.26





Report No. : KES-RF240184



Note.

1. No spurious emission were detected above 3 GHz.



Report No. : KES-RF240184

Mode: 802.11n_HT20

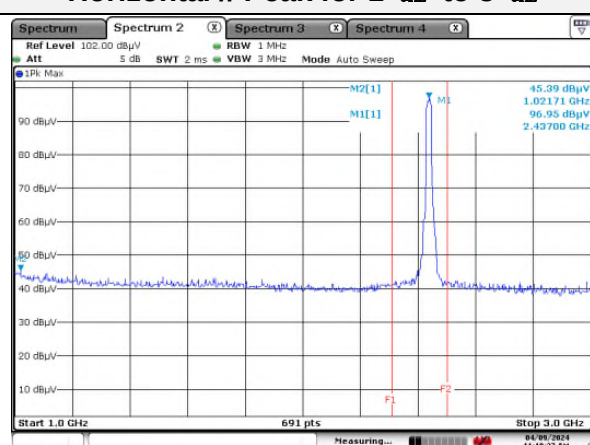
Distance of measurement: 3 meter

Channel: 06

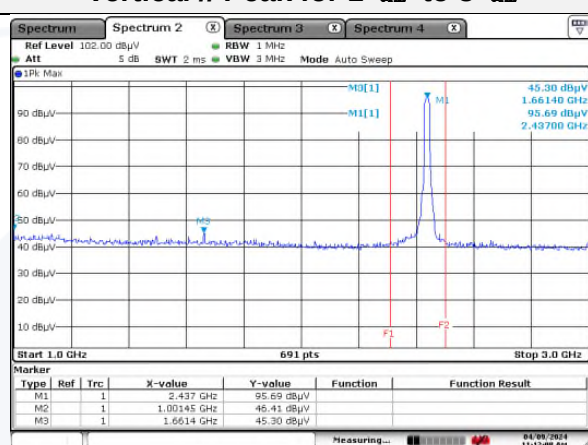
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.45	46.41	Peak	V	-9.39	-	37.02	74.00	36.98
1 021.71	45.39	Peak	H	-9.27	-	36.12	74.00	37.88
1 661.40	45.30	Peak	V	-4.77	-	40.53	74.00	33.47

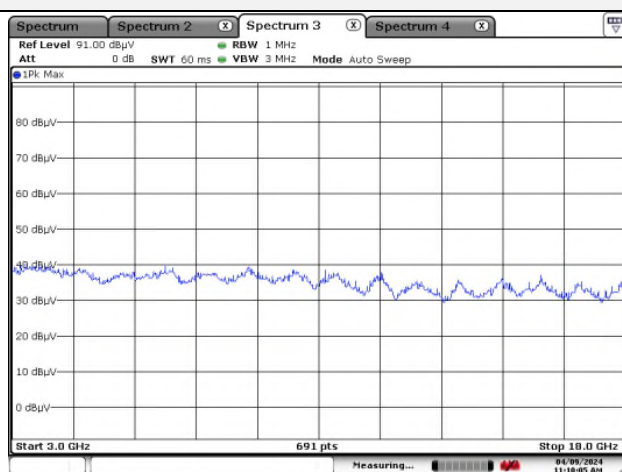
Horizontal // Peak for 1 GHz to 3 GHz



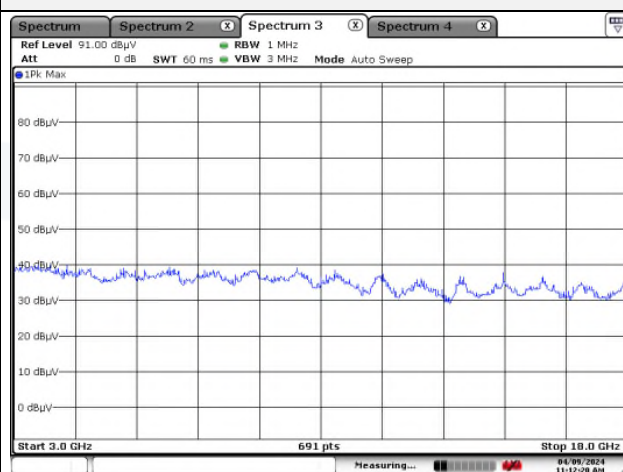
Vertical // Peak for 1 GHz to 3 GHz



Horizontal // Peak for 3 GHz to 18 GHz



Vertical // Peak for 3 GHz to 18 GHz



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

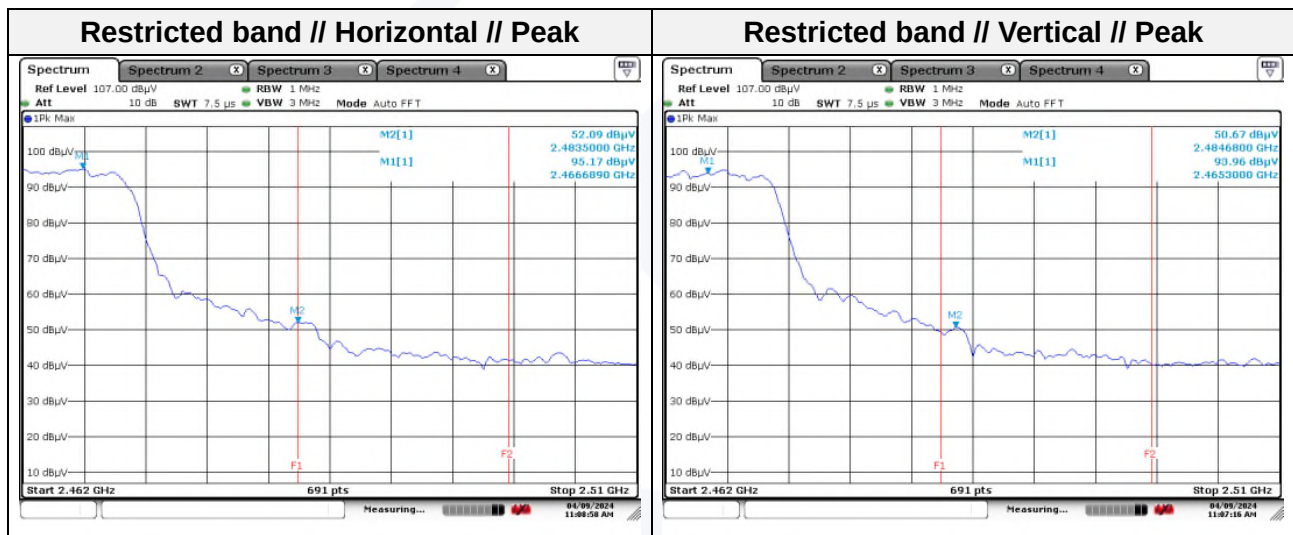
Mode: 802.11n_HT20
Distance of measurement: 3 meter
Channel: 11

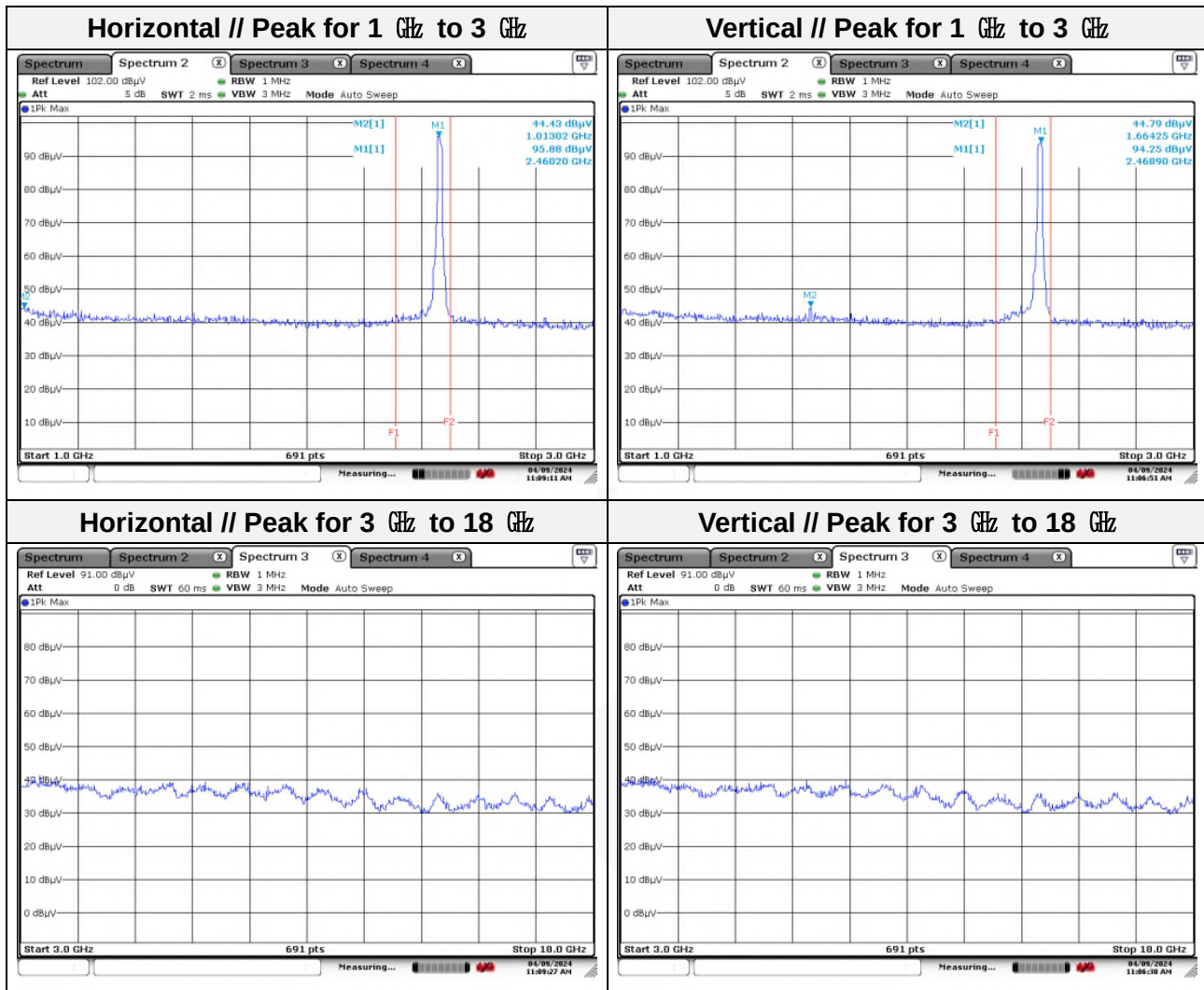
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 013.02	44.43	Peak	H	-9.32	-	35.11	74.00	38.89
1 664.25	44.79	Peak	V	-4.75	-	40.04	74.00	33.96

- 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)
2 483.50	52.09	Peak	H	-0.26	-	51.83	74.00	22.17
2 484.68	50.67	Peak	V	-0.25	-	50.42	74.00	23.58





Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



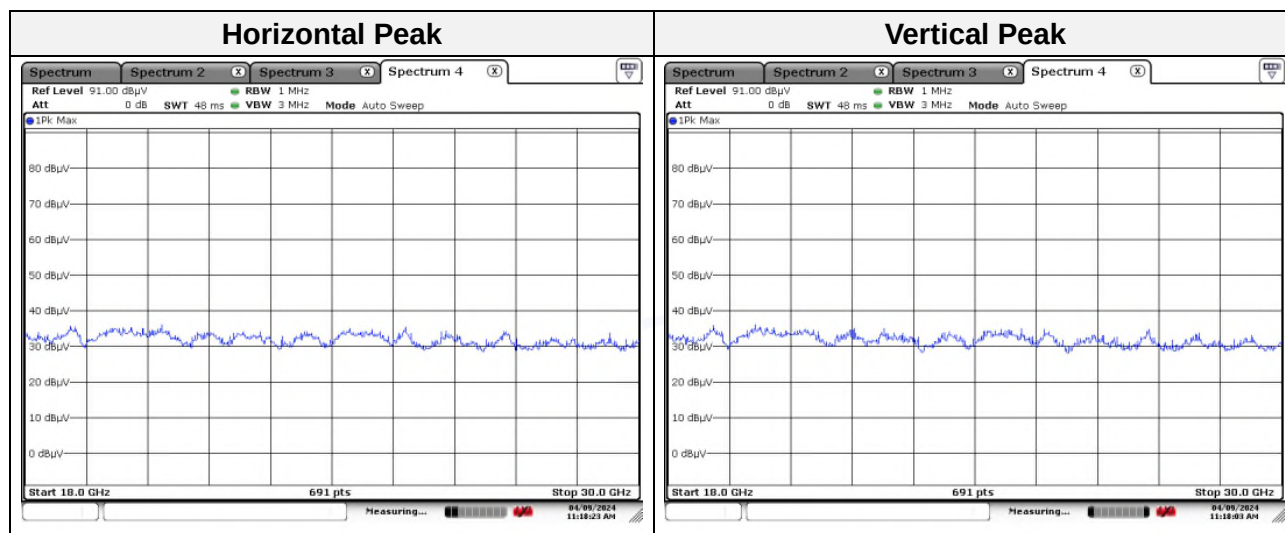
Report No. : KES-RF240184

Test results (18 GHz to 30 GHz)

Mode: 802.11n_HT20

Distance of measurement: 3 meter

Channel: 11 (Worst case)



Note.

No spurious emission were detected above 18 GHz.



Report No. : KES-RF240184

Mode: 802.11n_HT40

Distance of measurement: 3 meter

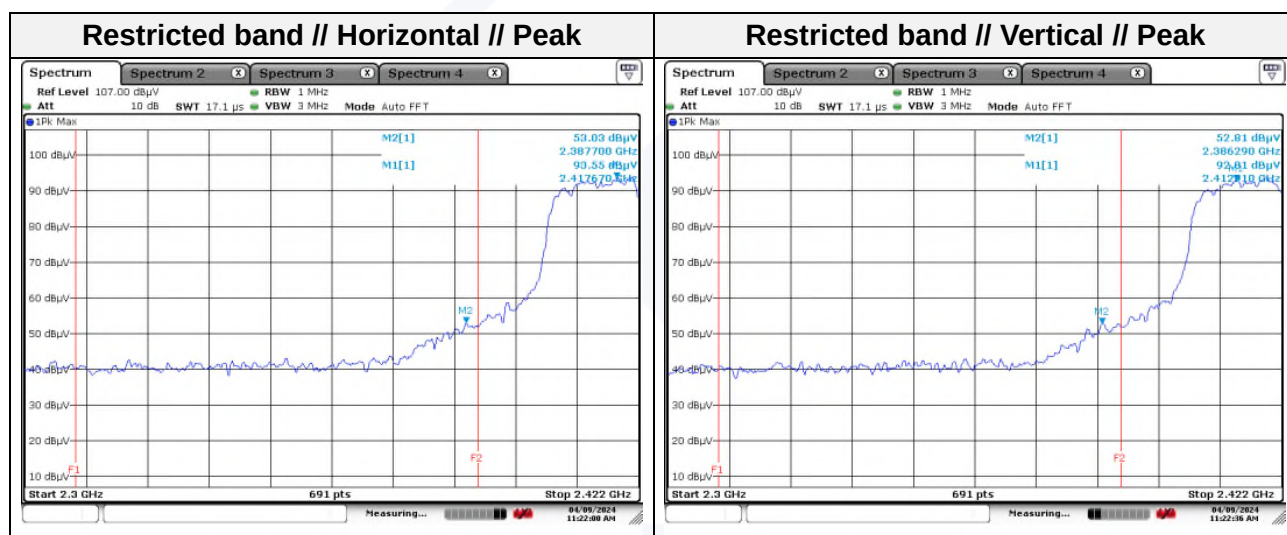
Channel: 03

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 021.71	44.86	Peak	H	-9.27	-	35.59	74.00	38.41
1 033.29	45.51	Peak	V	-9.19	-	36.32	74.00	37.68

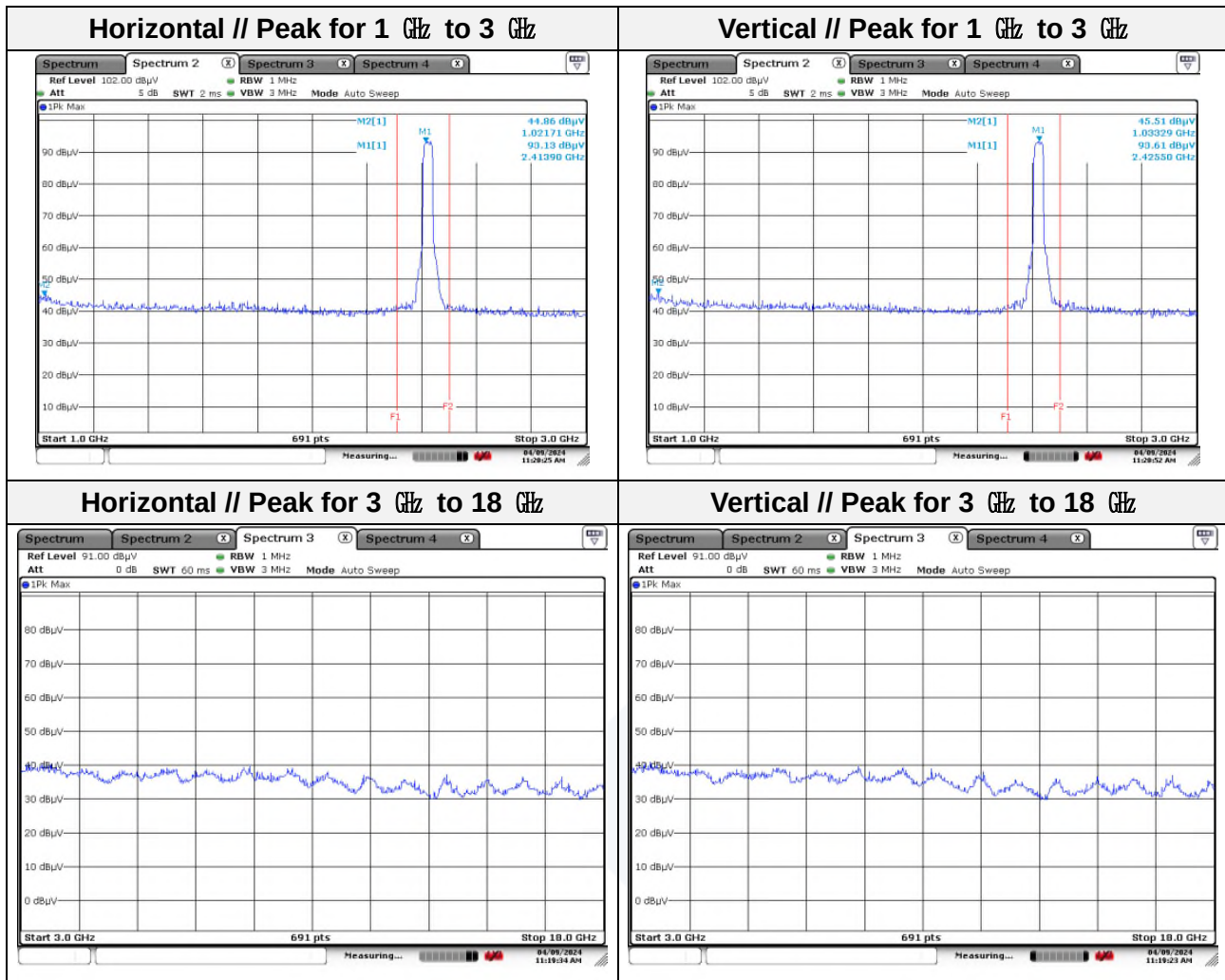
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 386.29	52.81	Peak	V	-0.35	-	52.46	74.00	21.54
2 387.70	53.03	Peak	H	-0.35	-	52.68	74.00	21.32





Report No. : KES-RF240184



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

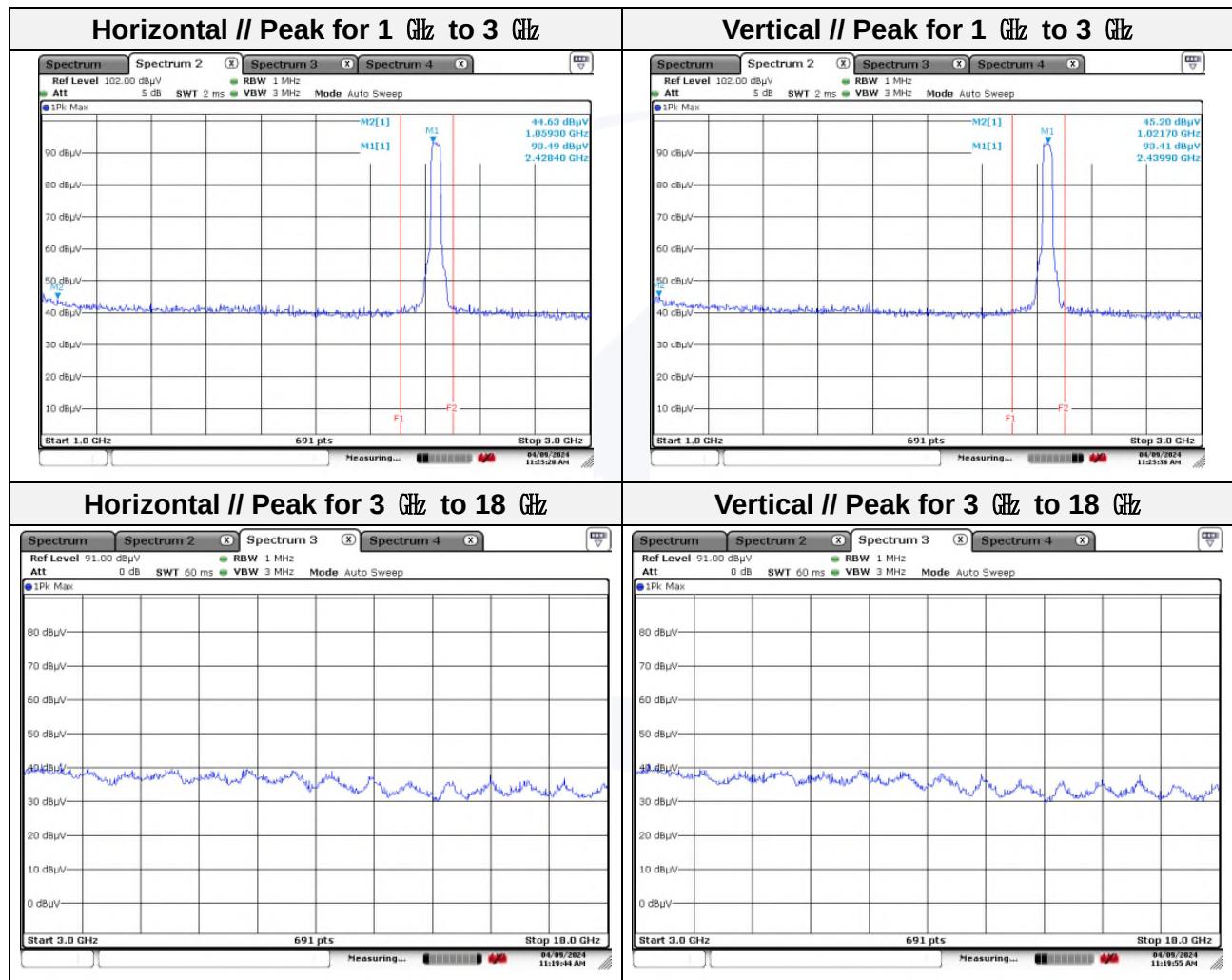
Mode: 802.11n_HT40

Distance of measurement: 3 meter

Channel: 06

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 021.70	45.20	Peak	V	-9.27	-	35.93	74.00	38.07
1 059.30	44.63	Peak	H	-9.03	-	35.60	74.00	38.40



Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF240184

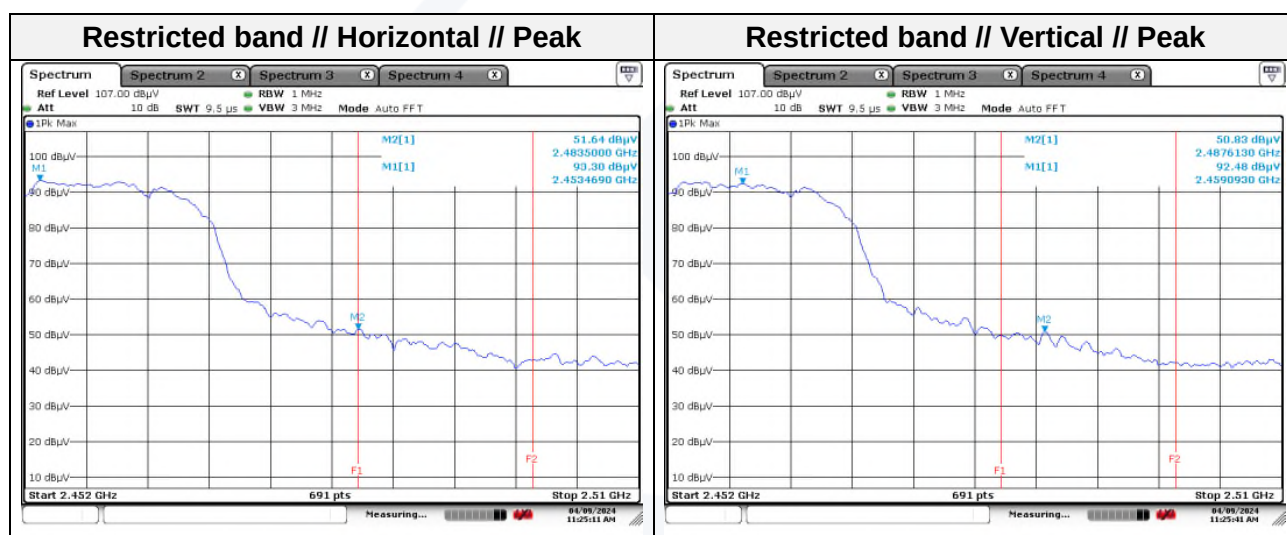
Mode: 802.11n_HT40
Distance of measurement: 3 meter
Channel: 09

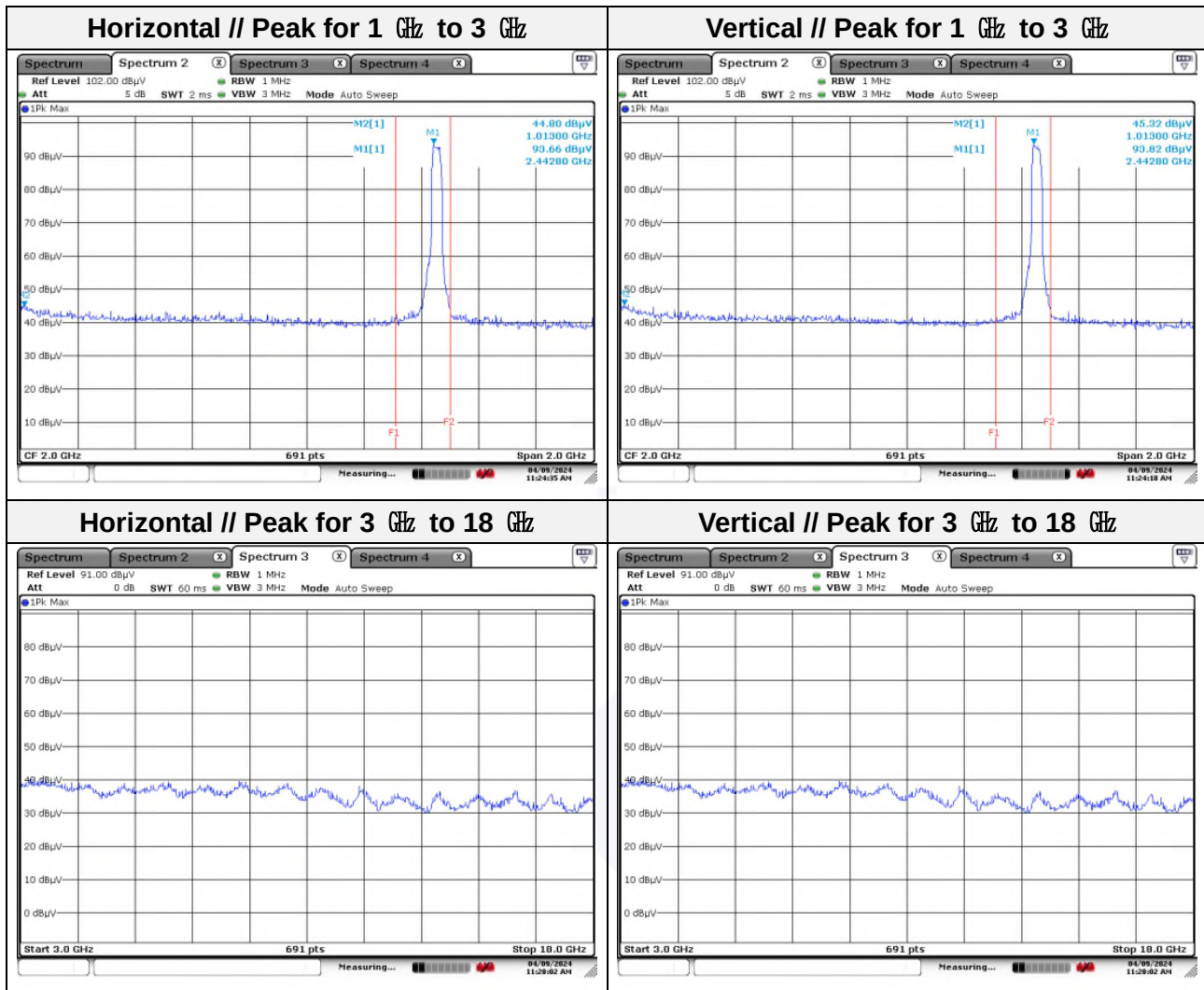
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 013.00	44.80	Peak	H	-9.32	-	35.48	74.00	38.52
1 013.00	45.32	Peak	V	-9.32	-	36.00	74.00	38.00

- 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)
2 483.50	51.64	Peak	H	-0.26	-	51.38	74.00	22.62
2 487.61	50.83	Peak	V	-0.25	-	50.58	74.00	23.42





Note.

1. No spurious emission were detected above 3 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



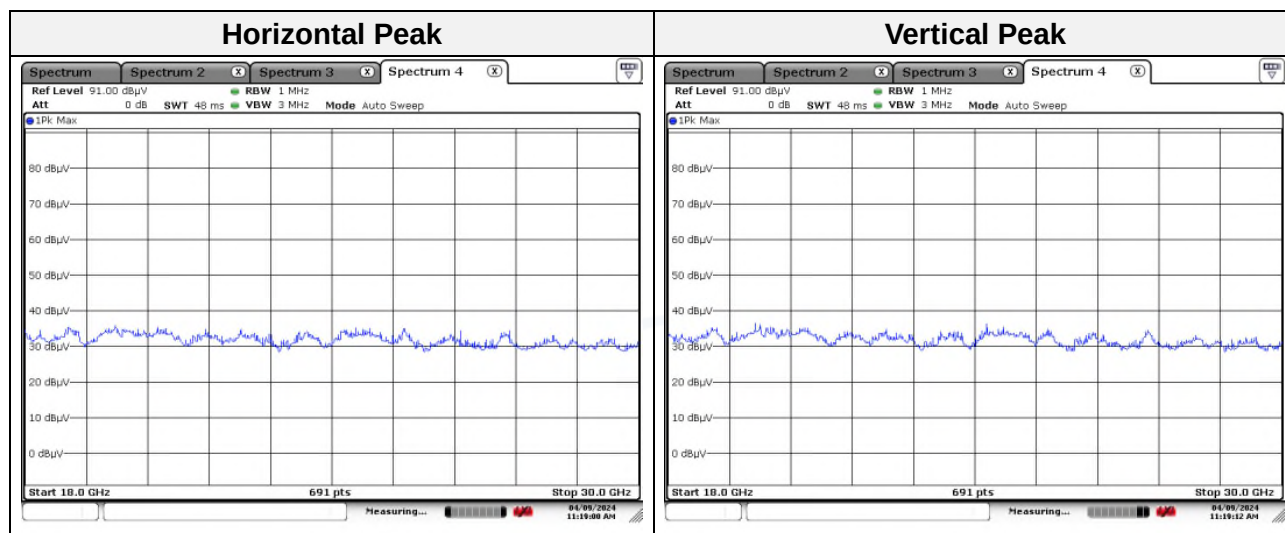
Report No. : KES-RF240184

Test results (18 GHz to 30 GHz)

Mode: 802.11n_HT40

Distance of measurement: 3 meter

Channel: 03 (Worst case)



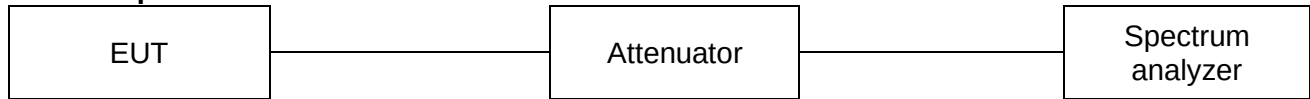
Note.

No spurious emission were detected above 18 GHz.



3.6. Conducted spurious emissions & band edge

Test setup



Test procedure

Band edge

ANSI C63.10-2013 - Section 11.11

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Set the RBW = 100 kHz
4. Set the VBW = $[3 \times \text{RBW}]$.
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow trace to fully stabilize.

Out of band emissions

ANSI C63.10-2013 - Section 11.11

1. Start frequency was set to 30 MHz and stop frequency was set to 25 GHz for 2.4 GHz frequencies and 40 GHz for 5 GHz frequencies
2. Set the RBW = 100 kHz
3. Set the VBW = $[3 \times \text{RBW}]$.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow trace to fully stabilize.

**FCC Limit**

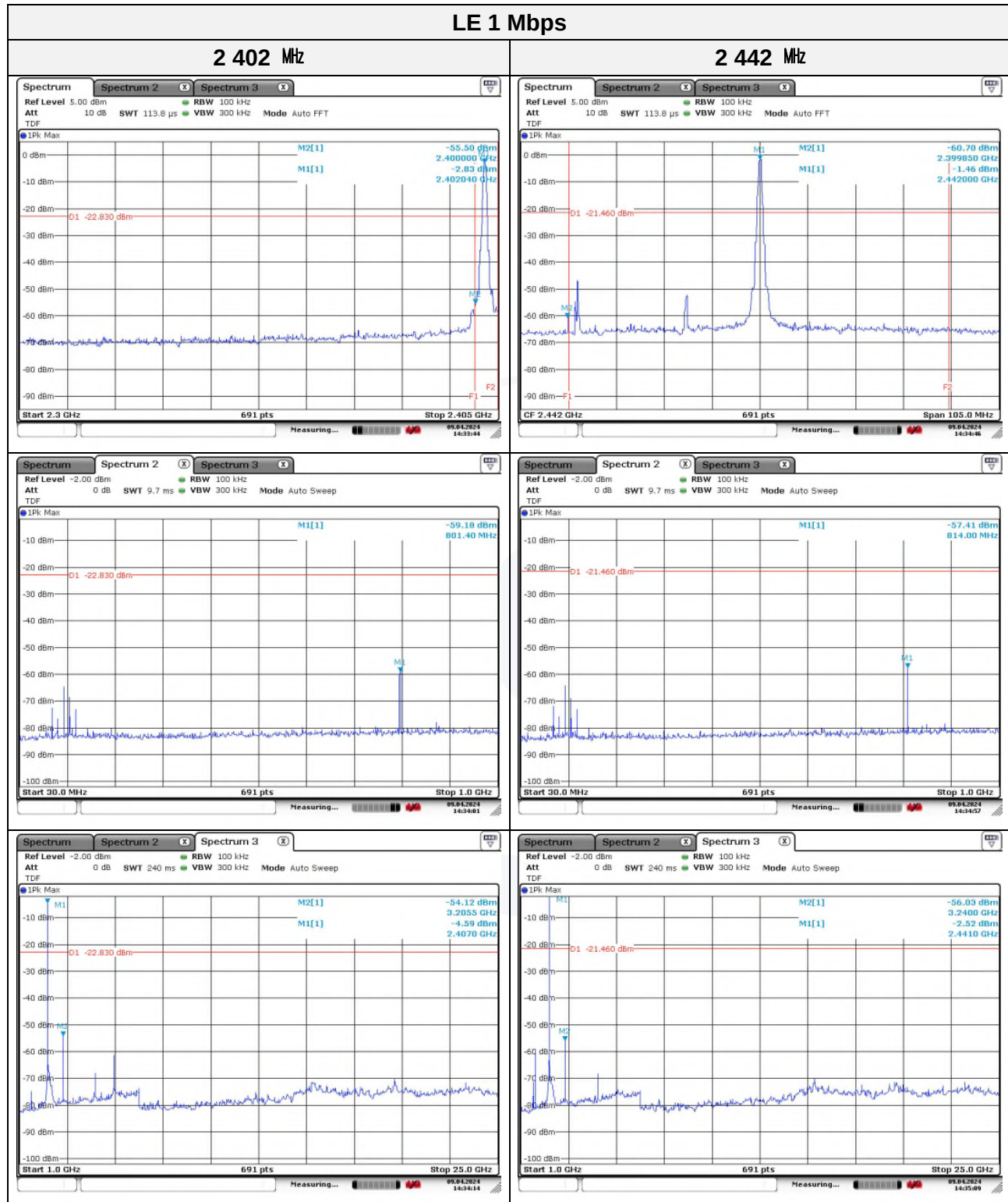
According to 15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in section 15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section 15.205(a), must also comply the radiated emission limits specified in section 15.209(a) (see section 15.205(c))

IC Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



Test results



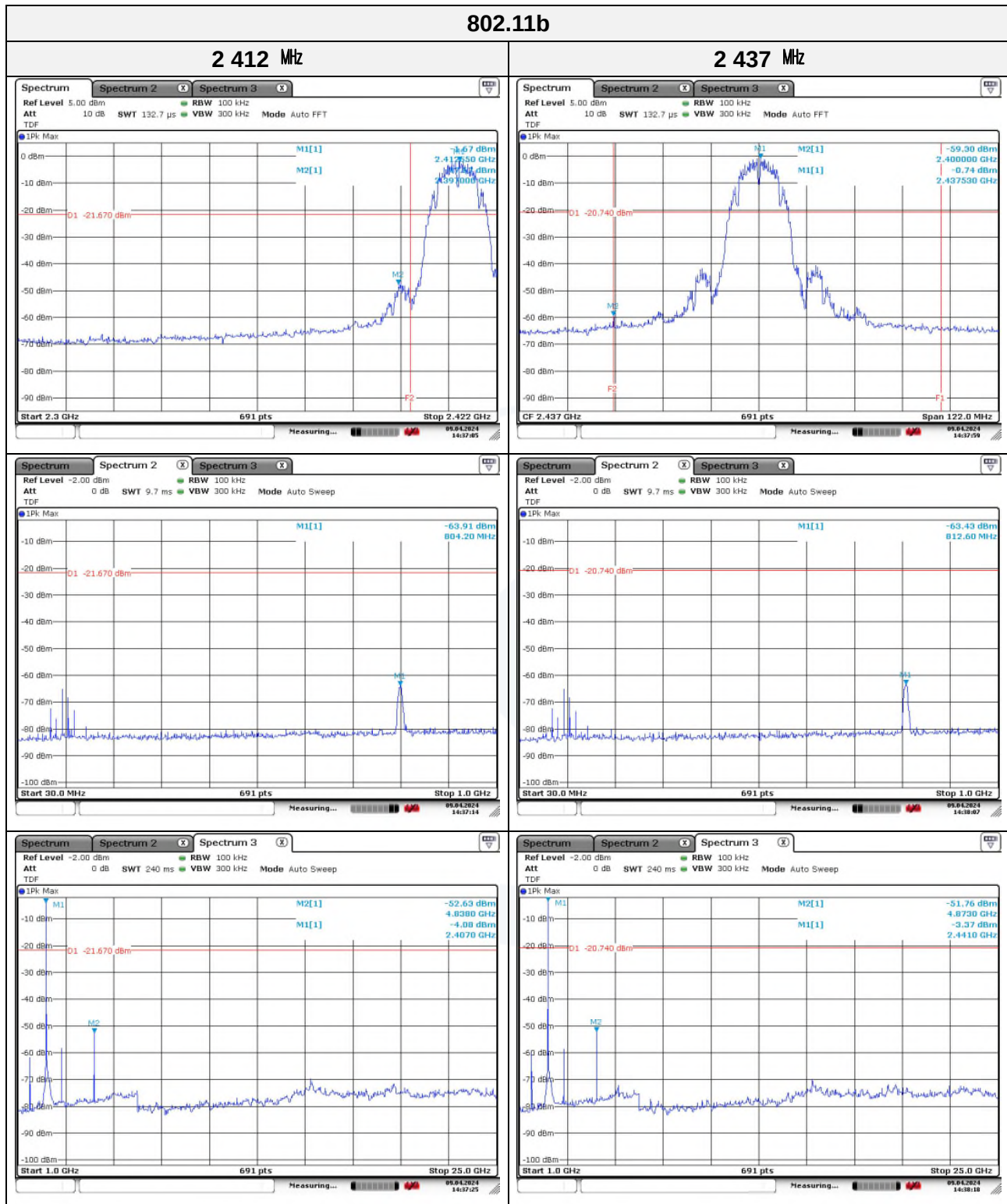


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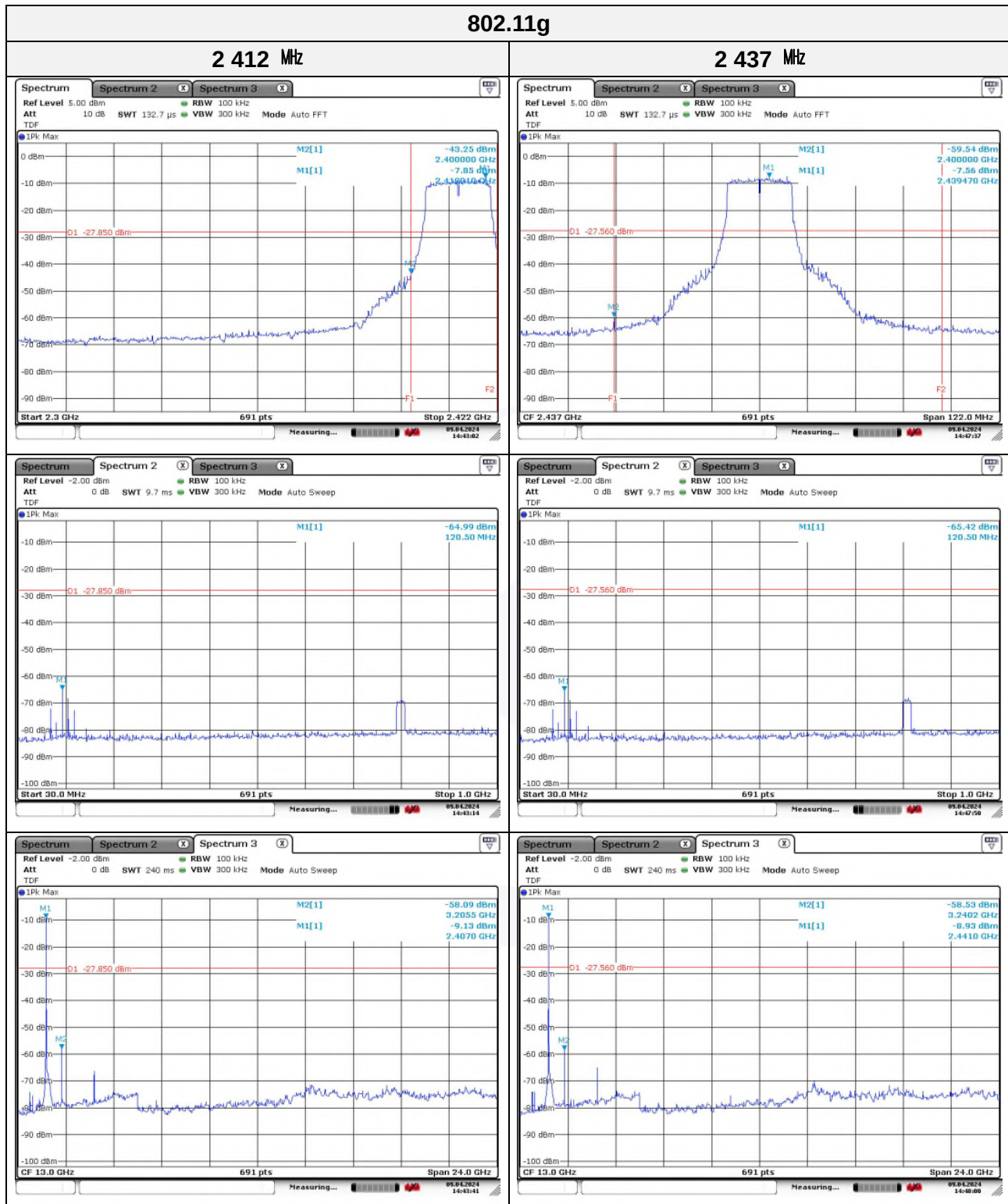


Report No. : KES-RF240184





Report No. : KES-RF240184

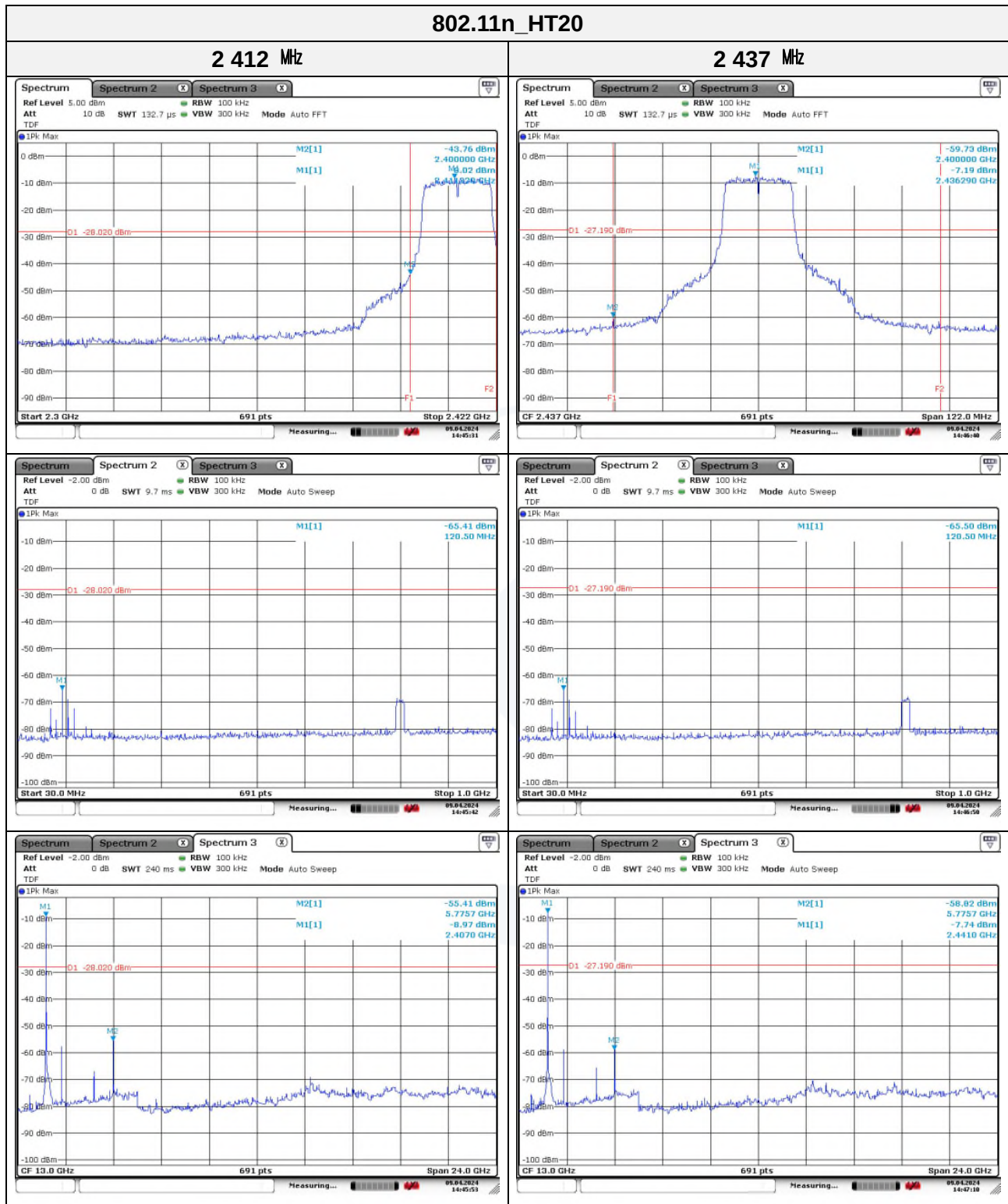




802.11g	
2 462 MHz Spectrum Spectrum 2 X Spectrum 3 X Ref Level 5.00 dBm Att 10 dB RBW 100 kHz VBW 300 kHz Mode Auto FFT TDF 1Pk Max 0 dBm M1 M2[1] M1[1] M2 -50.39 dBm 2.4635000 GHz -7.10 dBm 2.4644690 GHz 01 -27.100 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Measuring... 95.64.2624 14:29:39	-
Spectrum Spectrum 2 X Spectrum 3 X Ref Level -2.00 dBm Att 0 dB RBW 100 kHz VBW 300 kHz Mode Auto Sweep TDF 1Pk Max -10 dBm M1[1] -64.89 dBm 120.50 MHz 01 -27.100 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz Measuring... 95.64.2624 14:44:55	BLANK
Spectrum Spectrum 2 X Spectrum 3 X Ref Level -2.00 dBm Att 0 dB RBW 100 kHz VBW 300 kHz Mode Auto Sweep TDF 1Pk Max M1 M2[1] M1[1] M2 -59.10 dBm 3.2750 GHz -7.70 dBm 2.4410 GHz 01 -27.100 dBm Start 1.0 GHz 691 pts Stop 25.0 GHz Measuring... 95.64.2624 14:48:27	BLANK



Report No. : KES-RF240184



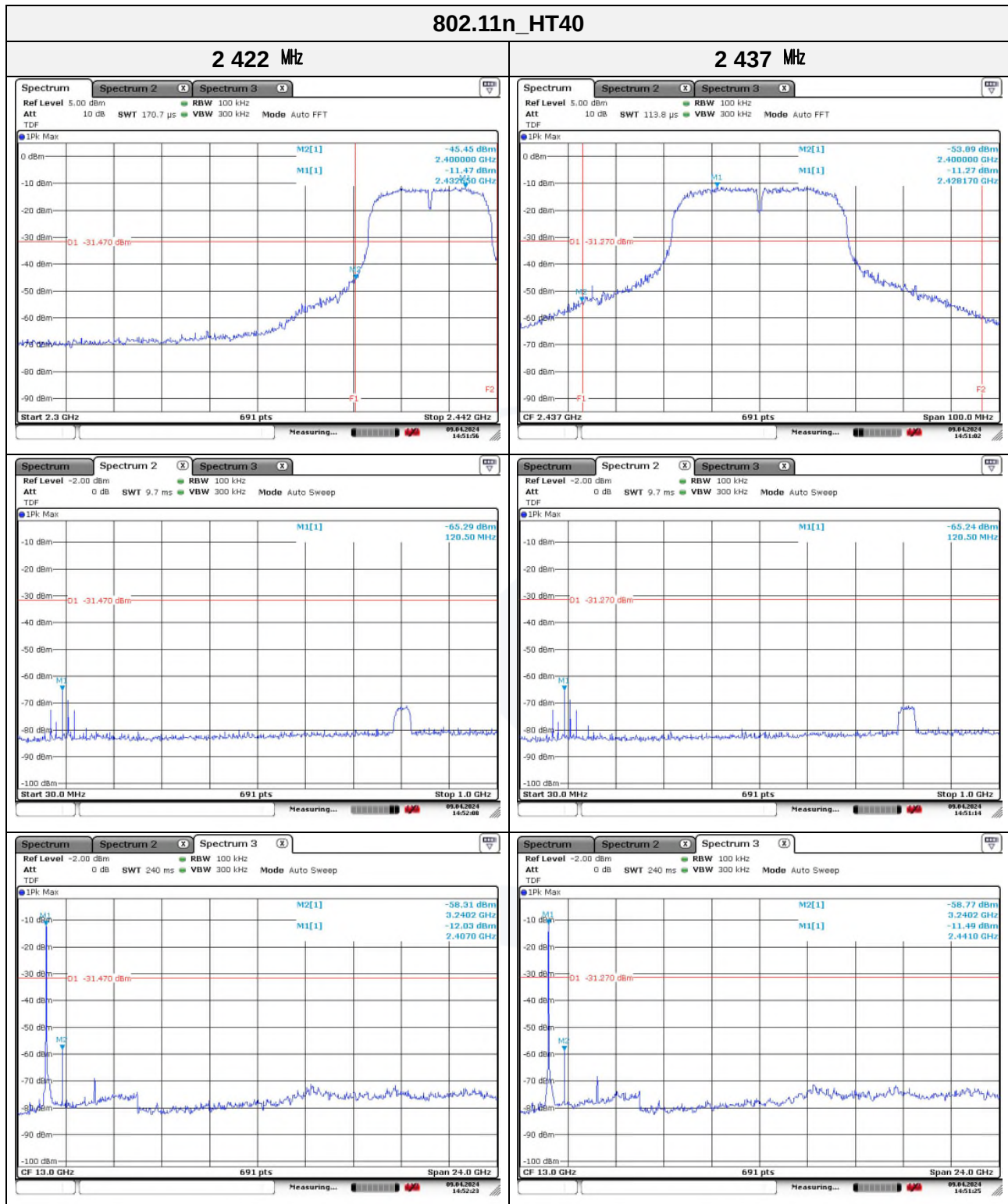


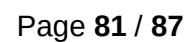
Report No. : KES-RF240184

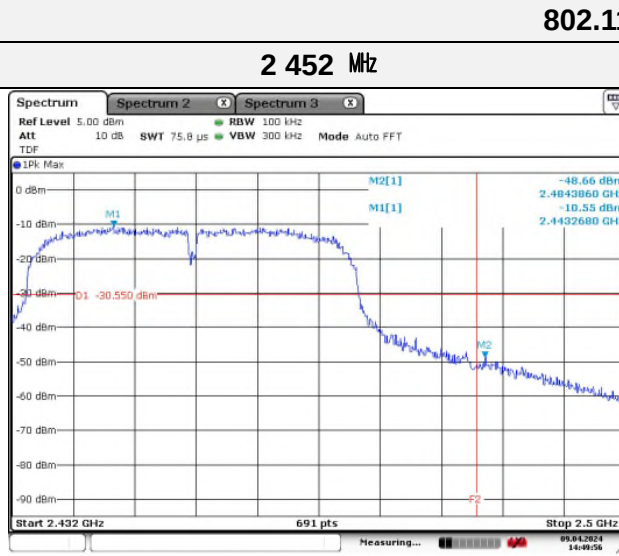
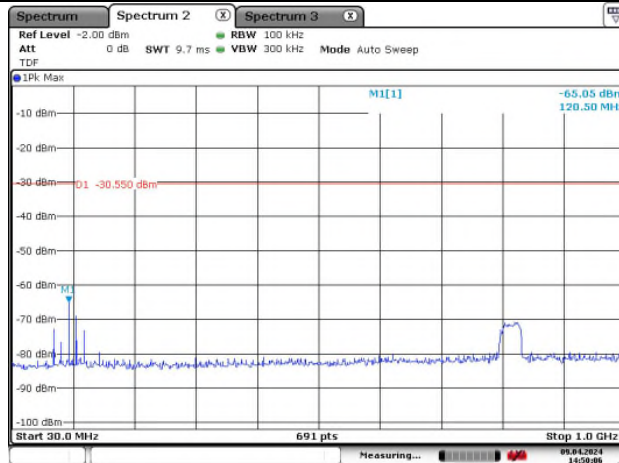
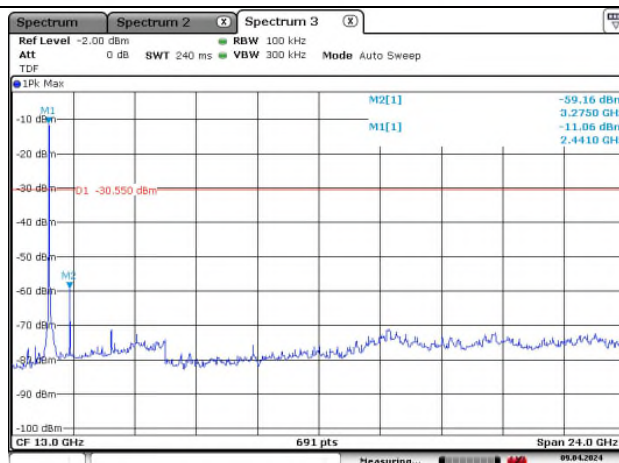




Report No. : KES-RF240184





802.11n_HT40	
2 452 MHz  Blank	
 Blank	
 Blank	



3.7. AC conducted emissions

FCC 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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50



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IC Limit

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 H / 50 line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Frequency of Emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 ^{note1}	56 to 46 ^{note1}
0.5 – 5.	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

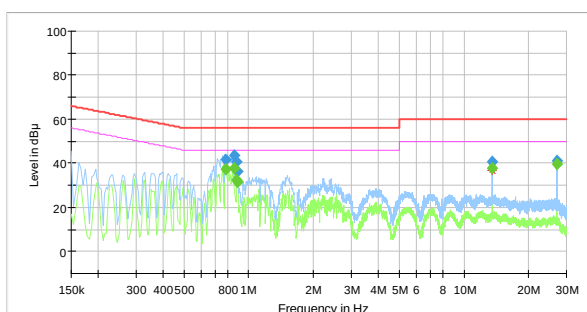
Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.



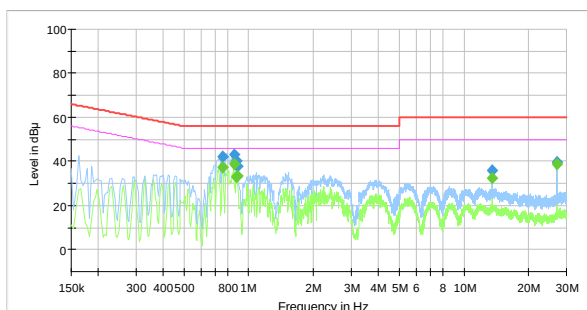
Report No. : KES-RF240184

Test results

Mode: LE 1 Mbps
Distance of measurement: 3 meter
Channel: 39 (Worst case)

Hot Line**Final Result**

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.786000	41.54	---	56.00	14.46	1000.0	9.000	L1	19.5
0.786000	---	37.31	46.00	8.69	1000.0	9.000	L1	19.5
0.858000	43.49	---	56.00	12.51	1000.0	9.000	L1	19.5
0.858000	---	37.83	46.00	8.17	1000.0	9.000	L1	19.5
0.878000	40.48	---	56.00	15.52	1000.0	9.000	L1	19.5
0.878000	---	32.23	46.00	13.77	1000.0	9.000	L1	19.5
0.890000	36.14	---	56.00	19.86	1000.0	9.000	L1	19.5
0.890000	---	31.40	46.00	14.60	1000.0	9.000	L1	19.5
13.562000	40.54	---	60.00	19.46	1000.0	9.000	L1	20.6
13.562000	---	37.59	50.00	12.41	1000.0	9.000	L1	20.6
27.122000	---	39.63	50.00	10.37	1000.0	9.000	L1	21.2
27.122000	41.25	---	60.00	18.75	1000.0	9.000	L1	21.2

Neutral Line**Final Result**

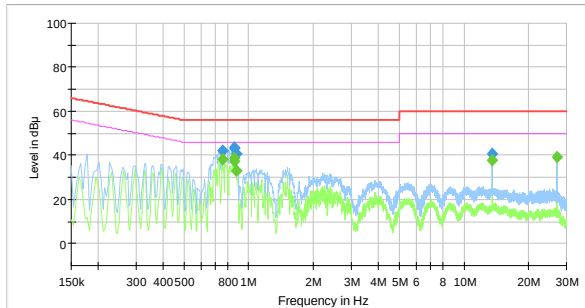
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.758000	---	37.06	46.00	8.94	1000.0	9.000	N	19.5
0.758000	42.01	---	56.00	13.99	1000.0	9.000	N	19.5
0.854000	---	38.84	46.00	7.16	1000.0	9.000	N	19.6
0.854000	43.27	---	56.00	12.73	1000.0	9.000	N	19.6
0.878000	---	32.74	46.00	13.26	1000.0	9.000	N	19.6
0.878000	40.41	---	56.00	15.59	1000.0	9.000	N	19.6
0.886000	---	33.35	46.00	12.65	1000.0	9.000	N	19.6
0.886000	37.96	---	56.00	18.04	1000.0	9.000	N	19.6
13.566000	---	32.45	50.00	17.55	1000.0	9.000	N	20.6
13.566000	35.84	---	60.00	24.16	1000.0	9.000	N	20.6
27.122000	---	38.49	50.00	11.51	1000.0	9.000	N	21.3
27.122000	39.59	---	60.00	20.41	1000.0	9.000	N	21.3



Report No. : KES-RF240184

Mode: 802.11g (Worst Case)
Distance of measurement: 3 meter
Channel: 11 (Worst case)

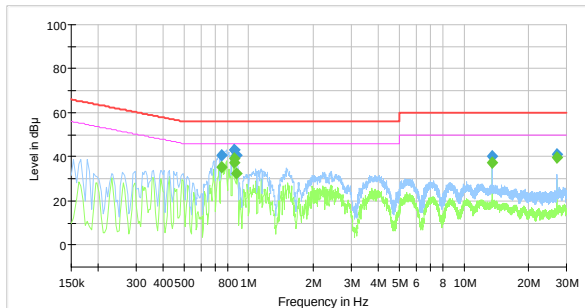
Hot Line



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.754000	---	38.12	46.00	7.88	1000.0	9.000	L1	19.5
0.754000	41.94	---	56.00	14.06	1000.0	9.000	L1	19.5
0.854000	43.27	---	56.00	12.73	1000.0	9.000	L1	19.5
0.854000	---	38.80	46.00	7.20	1000.0	9.000	L1	19.5
0.858000	43.36	---	56.00	12.64	1000.0	9.000	L1	19.5
0.858000	---	37.24	46.00	8.76	1000.0	9.000	L1	19.5
0.878000	---	32.71	46.00	13.29	1000.0	9.000	L1	19.5
0.878000	40.56	---	56.00	15.44	1000.0	9.000	L1	19.5
13.562000	40.55	---	60.00	19.45	1000.0	9.000	L1	20.6
13.562000	---	37.59	50.00	12.41	1000.0	9.000	L1	20.6
27.122000	---	39.34	50.00	10.66	1000.0	9.000	L1	21.2

Neutral Line



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.750000	40.67	---	56.00	15.33	1000.0	9.000	N	19.5
0.750000	---	35.12	46.00	10.88	1000.0	9.000	N	19.5
0.854000	---	39.23	46.00	6.77	1000.0	9.000	N	19.6
0.854000	43.23	---	56.00	12.77	1000.0	9.000	N	19.6
0.858000	---	37.45	46.00	8.55	1000.0	9.000	N	19.6
0.858000	43.24	---	56.00	12.76	1000.0	9.000	N	19.6
0.878000	40.51	---	56.00	15.49	1000.0	9.000	N	19.6
0.878000	---	32.61	46.00	13.39	1000.0	9.000	N	19.6
13.562000	---	37.35	50.00	12.65	1000.0	9.000	N	20.6
13.562000	40.38	---	60.00	19.62	1000.0	9.000	N	20.6
27.126000	---	39.62	50.00	10.38	1000.0	9.000	N	21.3
27.126000	41.26	---	60.00	18.74	1000.0	9.000	N	21.3



3.8. Antenna Requirement

According to 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

**Appendix A. Measurement equipment**

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
SPECTRUM ANALYZER	R&S	FSV40	101725	1 year	2024.06.15
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2024.04.19
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2025.04.15
DC POWER SUPPLY	AGILENT	6632B	MY43004090	1 year	2024.05.12
AC POWER SOURCE/ ANALYZER	HP	6813A	3729A00754	1 year	2025.04.15
Power Meter	Anritsu	ML2495A	2010001	1 year	2024.06.19
Pulse Power Sensor	Anritsu	MA2411B	1911111	1 year	2025.01.12
ATTENUATOR	Mini-Circuits	BW-S10-2W263+	2	1 year	2024.04.19
Loop Antenna	Schwarzbeck	FMZB1513	1513-257	2 years	2025.04.15
BILOG ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2024.04.18
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2025.04.15
Horn Antenna	A.H.	SAS-571	414	1 year	2025.01.15
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2025.03.22
Amplifier	SONOMA INSTRUMENT	310N	186549	1 year	2024.04.19
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2026.04.19
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2024.03.21
EMI Test Receiver	R&S	ESU26	100517	1 year	2025.02.13
EMI TEST RECEIVER	ESR3	R & S	101783	1 year	2024.03.21
PULSE LIMITER	ESH3-Z2	R & S	101915	1 year	2025.02.13
LISN	ENV216	R & S	101787	1 year	2024.07.31
LISN	ESH2-Z5	R & S	100450	1 year	2024.11.08

* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LGS53	306QCZP560949

The end of test report.