

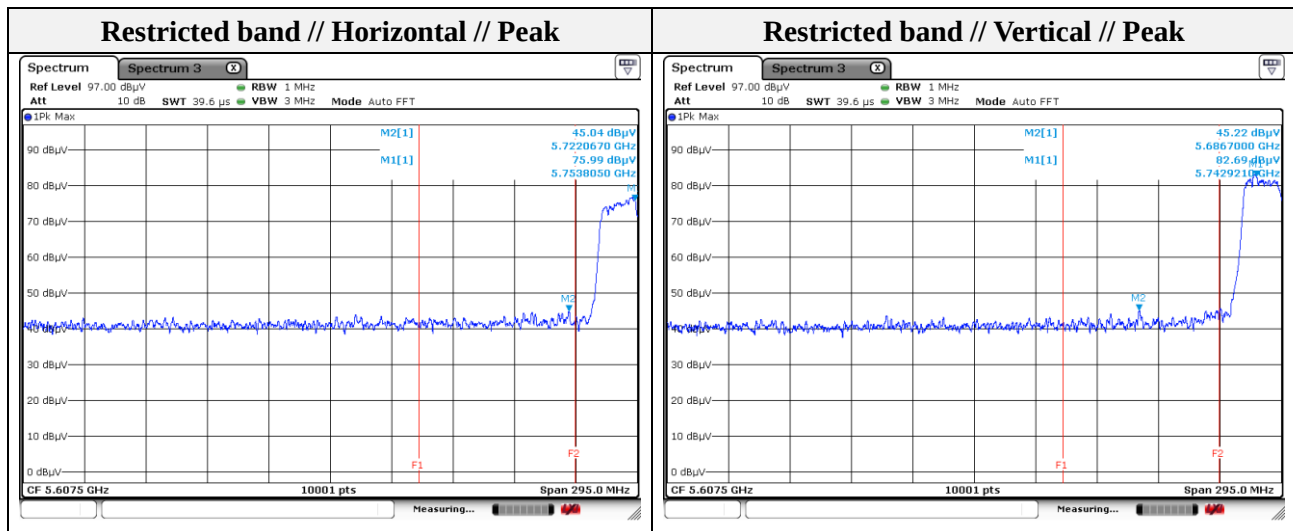
Mode: 802.11ac_HT40
Band: UNII-3
Distance of measurement: 3 meter
Channel: 151

- Spurious

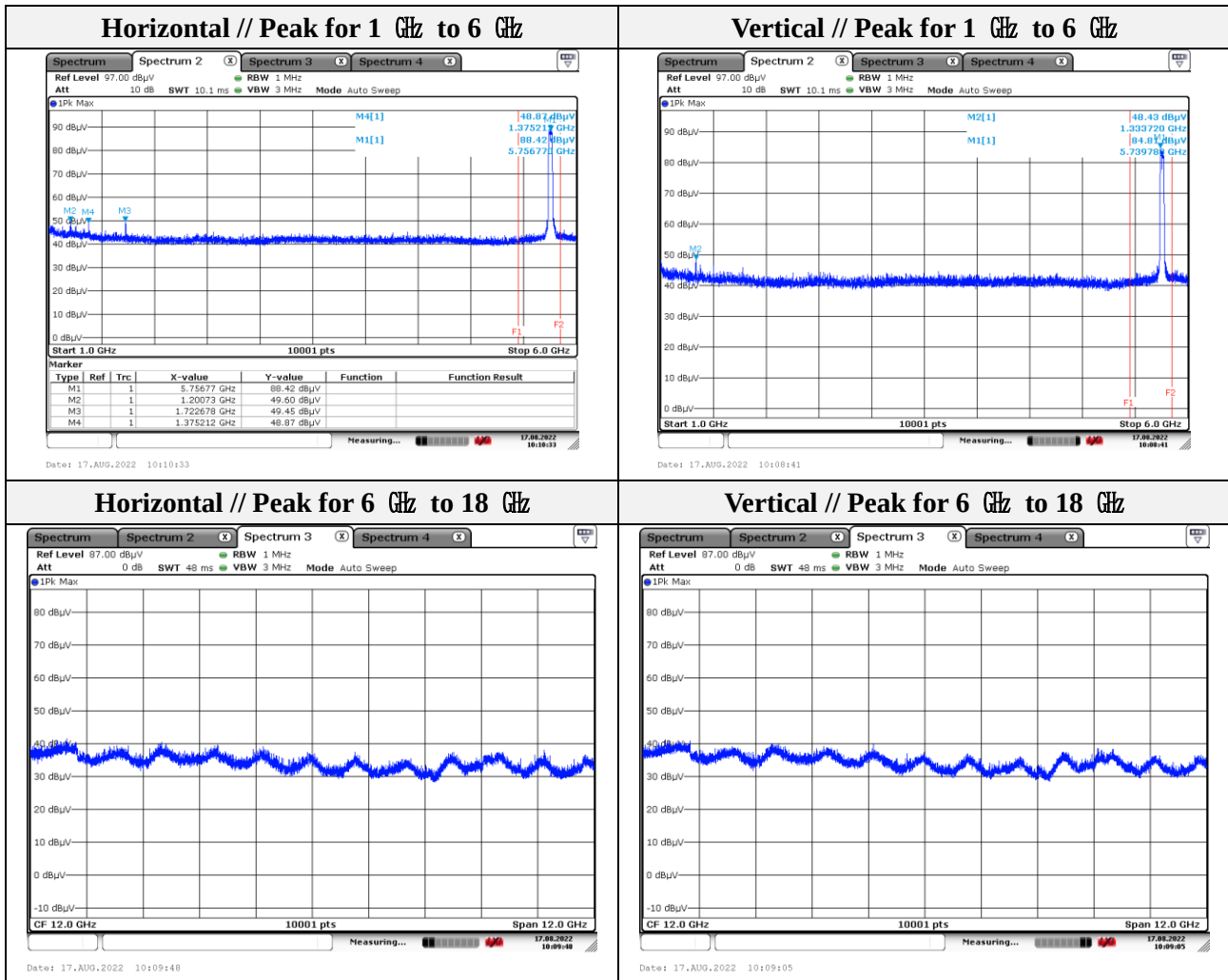
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 200.73	49.60	Peak	H	-9.24	-	40.36	74.00	33.64
1 333.72	48.43	Peak	V	-9.06	-	39.37	74.00	34.63
1 375.21	48.87	Peak	H	-9.00	-	39.87	74.00	34.13
1 722.68	49.45	Peak	H	-2.80	-	46.65	68.23	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)
5 686.70	45.22	Peak	V	9.54	-	54.76	95.39	40.63
5 722.07	45.04	Peak	H	9.67	-	54.71	115.55	60.84



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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.

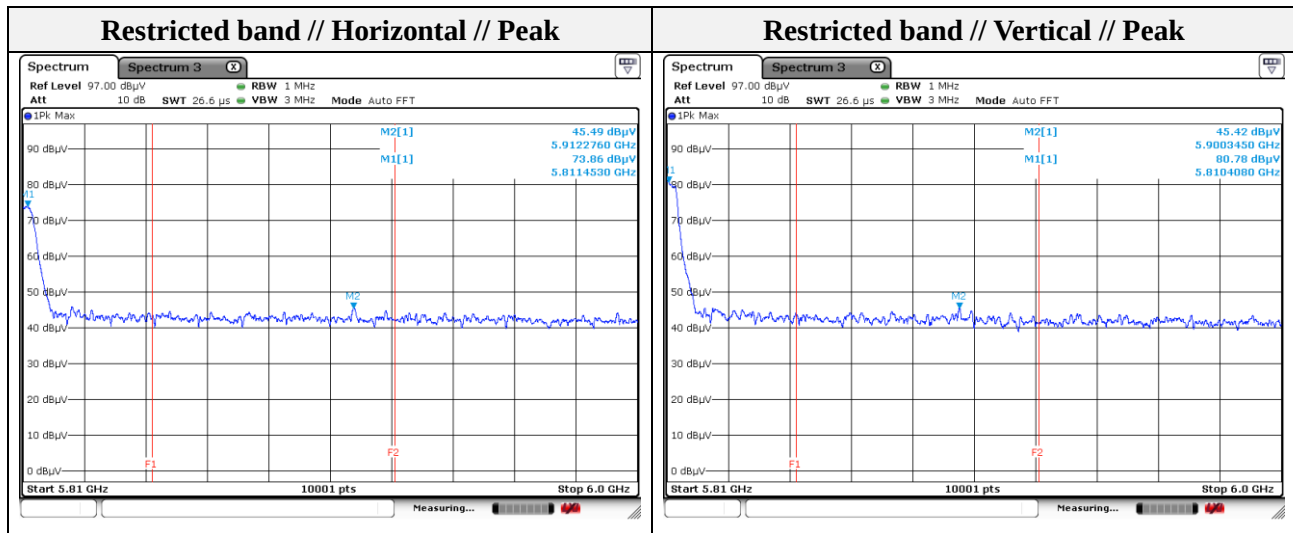
Mode: 802.11ac_HT40
Band: UNII-3
Distance of measurement: 3 meter
Channel: 159

- Spurious

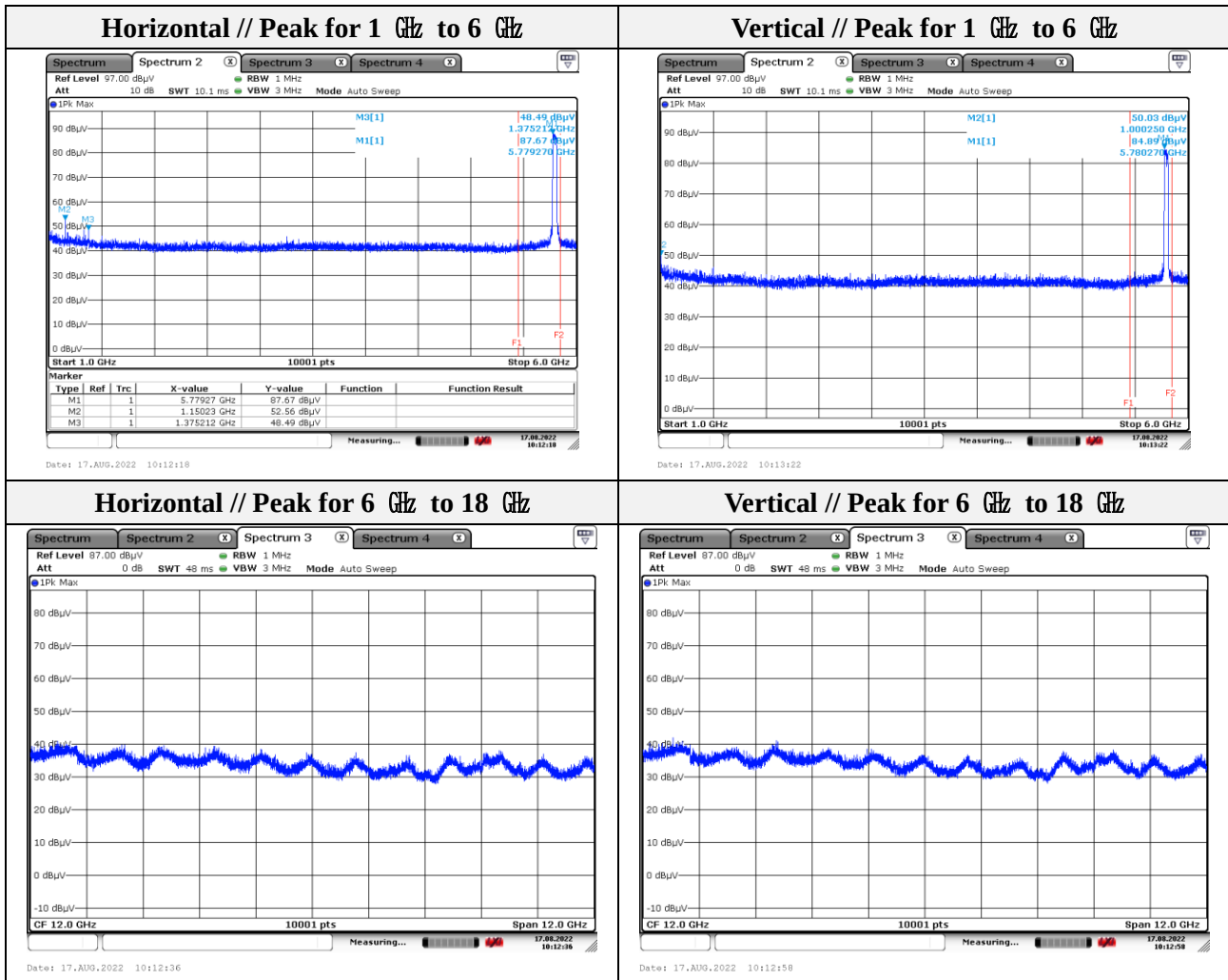
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	50.03	Peak	V	-9.44	-	40.59	74.00	33.41
1 150.23	52.56	Peak	H	-9.29	-	43.27	74.00	30.73
1 375.21	48.49	Peak	H	-9.00	-	39.49	74.00	34.51

- 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)
5 900.35	45.42	Peak	V	10.89	-	56.31	77.35	21.04
5 912.28	45.49	Peak	H	11.01	-	56.50	72.94	16.44



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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-RF1-22T0142

Page (187) of (194)

Mode: 802.11ac_HT80
Band: UNII-3
Distance of measurement: 3 meter
Channel: 155

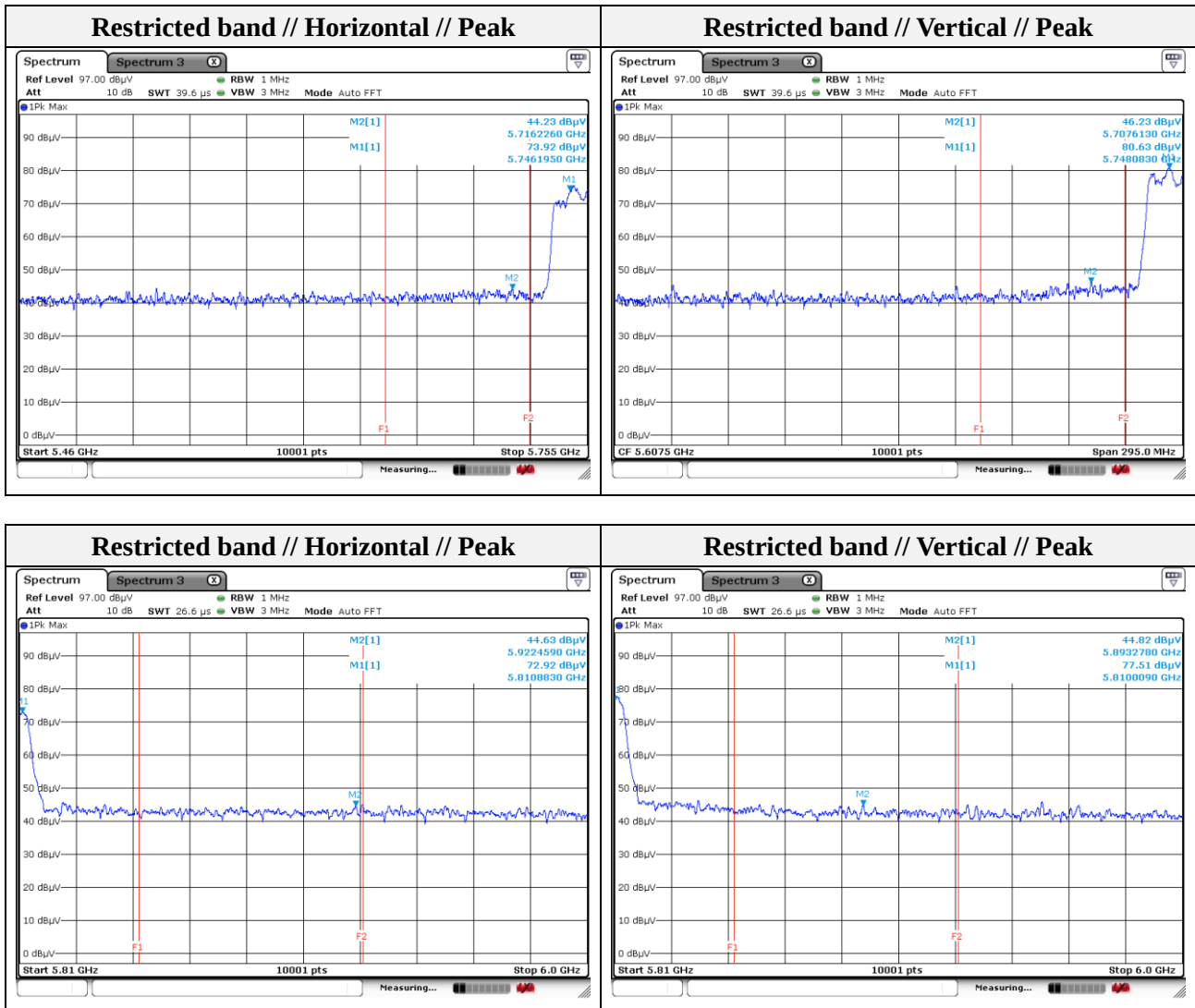
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.75	48.25	Peak	H	-9.44	-	38.81	74.00	35.19
1 009.25	47.44	Peak	V	-9.43	-	38.01	74.00	35.99
1 250.73	47.99	Peak	H	-9.17	-	38.82	68.23	29.41
1 331.22	47.34	Peak	V	-9.06	-	38.28	74.00	35.72
1 375.71	47.79	Peak	H	-9.00	-	38.79	74.00	35.21

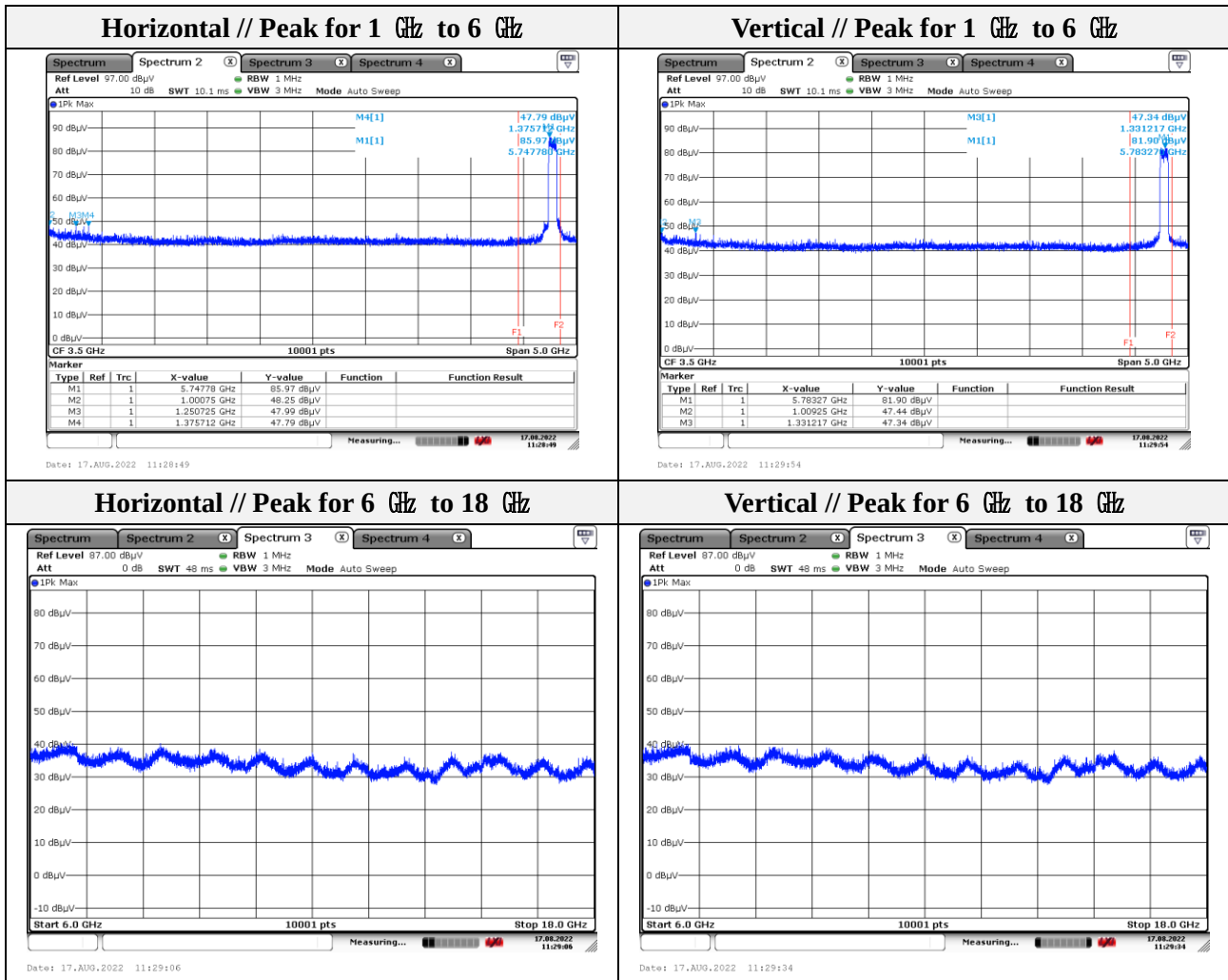
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 707.61	46.23	Peak	V	9.62	-	55.85	107.36	51.51
5 716.23	44.23	Peak	H	9.65	-	53.88	109.77	55.89
5 893.28	44.82	Peak	V	10.83	-	55.65	79.97	24.32
5 922.46	44.63	Peak	H	11.10	-	55.73	69.17	13.44

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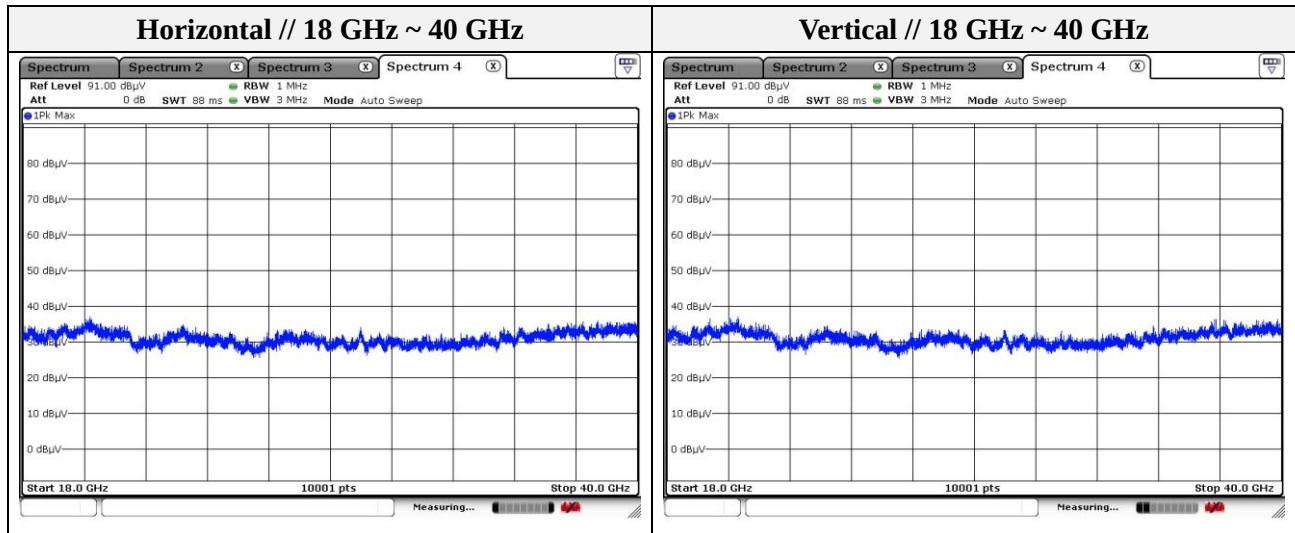


Note.

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.

Test results (18 GHz to 40 GHz)

Mode: 802.11ac_VHT40
 Band: UNII-2A
 Channel: 62 (Worst Case)
 Distance of measurement: 3 meter



Note.

1. No spurious emission were detected above 18 GHz.

3.7. AC conducted emissions

Limit

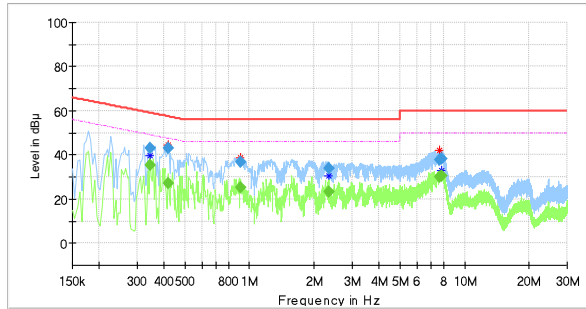
According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/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/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Test results

Mode: 802.11ac_VHT40
 Band: UNII-2A
 Channel: 62 (Worst Case)

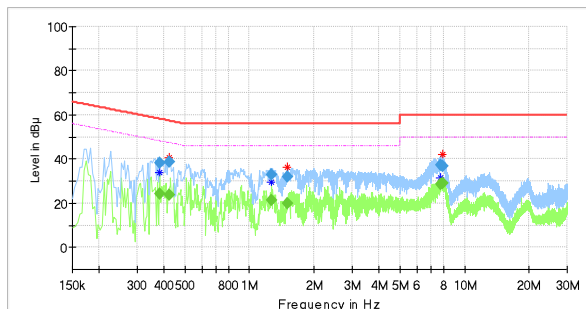
Hot Line



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.346000	---	35.58	49.06	13.48	1000.0	9.000	L1	19.7
0.346000	43.21	---	59.06	15.85	1000.0	9.000	L1	19.7
0.418000	---	27.09	47.49	20.40	1000.0	9.000	L1	19.8
0.418000	42.91	---	57.49	14.58	1000.0	9.000	L1	19.8
0.910000	---	25.18	46.00	20.82	1000.0	9.000	L1	20.2
0.910000	36.65	---	56.00	19.35	1000.0	9.000	L1	20.2
2.330000	---	23.34	46.00	22.66	1000.0	9.000	L1	20.5
2.330000	33.84	---	56.00	22.16	1000.0	9.000	L1	20.5
7.670000	---	29.90	50.00	20.10	1000.0	9.000	L1	19.9
7.670000	37.58	---	60.00	22.42	1000.0	9.000	L1	19.9
7.786000	---	30.65	50.00	19.35	1000.0	9.000	L1	19.9
7.786000	38.38	---	60.00	21.62	1000.0	9.000	L1	19.9

Neutral Line



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.362000	---	24.27	48.24	23.97	1000.0	9.000	N	19.7
0.362000	38.28	---	58.24	19.96	1000.0	9.000	N	19.7
0.422000	---	23.84	47.41	23.57	1000.0	9.000	N	19.7
0.422000	38.66	---	57.41	18.75	1000.0	9.000	N	19.7
1.270000	---	21.58	46.00	24.42	1000.0	9.000	N	20.3
1.270000	32.75	---	56.00	23.25	1000.0	9.000	N	20.3
1.498000	---	19.83	46.00	26.17	1000.0	9.000	N	20.3
1.498000	31.81	---	56.00	24.19	1000.0	9.000	N	20.3
7.750000	---	28.83	50.00	21.17	1000.0	9.000	N	19.9
7.750000	37.20	---	60.00	22.80	1000.0	9.000	N	19.9
7.874000	---	29.20	50.00	20.80	1000.0	9.000	N	19.9
7.874000	36.96	---	60.00	23.04	1000.0	9.000	N	19.9

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Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum analyzer	R&S	FSV3044	101272	1 year	2023.03.14
Spectrum analyzer	R&S	FSV40-N	102194	1 year	2023.08.11
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2023.04.27
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2023.05.13
Power Meter	Anritsu	ML2495A	2010001	1 year	2023.04.27
Pulse Power Sensor	Anritsu	MA2411B	1911111	1 year	2023.04.27
Attenuator	Mini-Circuits	BW-S10-2W263+	3	1 year	2023.01.17
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2023.01.18
TRILOG-BROADBAND ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2024.04.19
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2023.04.01
Horn Antenna	A.H	SAS-571	414	1 year	2023.01.18
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2023.01.18
Amplifier	SONOMA INSTRUMENT	310N	100517	1 year	2023.08.01
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2023.06.02
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2023.01.17
AC POWER SOURCE/ANALYZER	HP	6813A	3729A00754	1 year	2023.01.14
EMI Test Receiver	R&S	ESU26	100517	1 year	2023.08.01
EMI Test Receiver	R&S	ESR3	101783	1 year	2022.12.28
PULSE LIMITER	R&S	ESH2-Z2	101915	1 year	2022.12.27
LISN	R&S	ENV216	101787	1 year	2022.12.27
Temp. & Humid. Chamber	ESPEC	SH642	93012658	1 year	2023.06.16

Peripheral devices

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

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