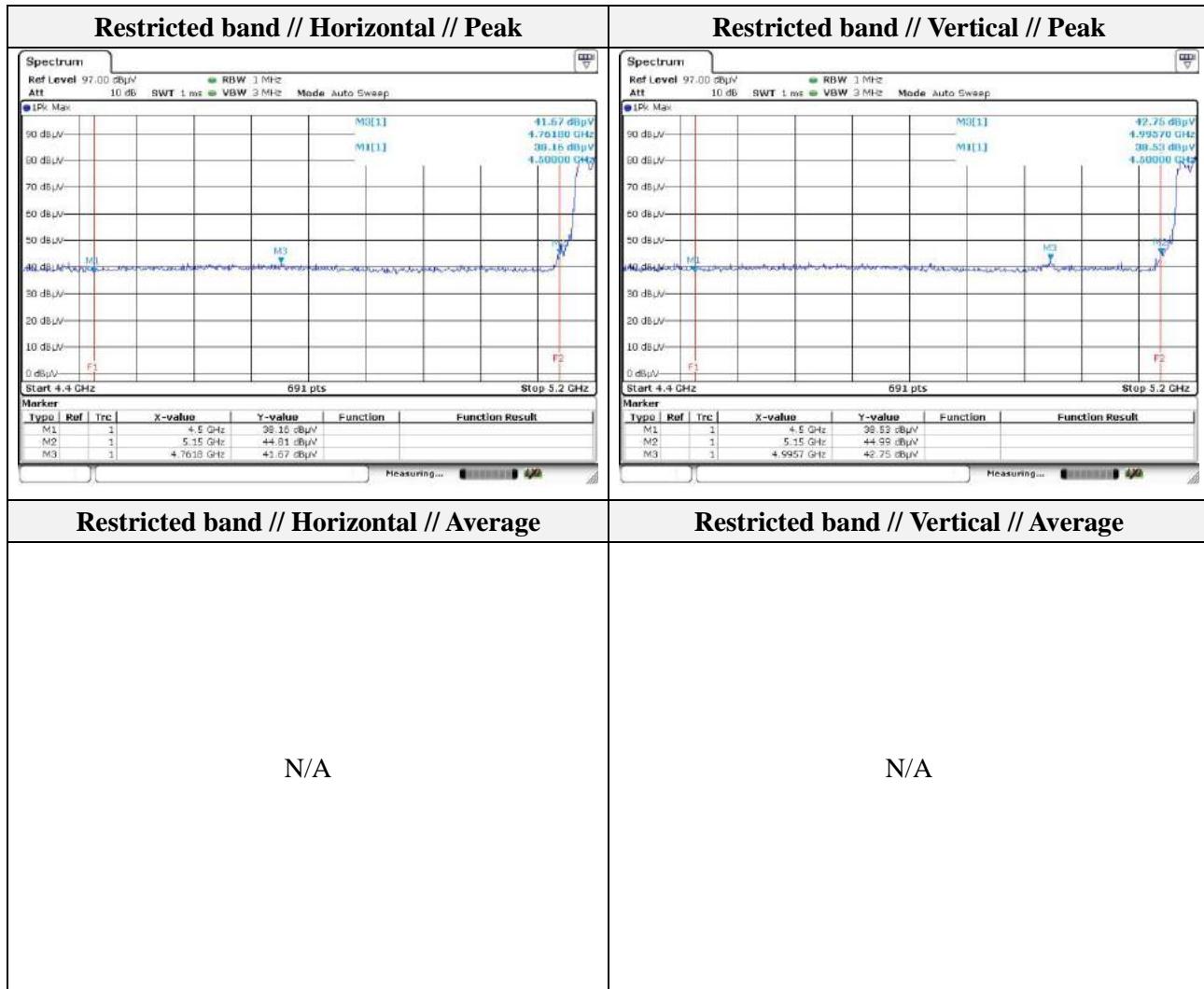


Mode: UNII-1(HT40)

Distance of measurement: 3 meter

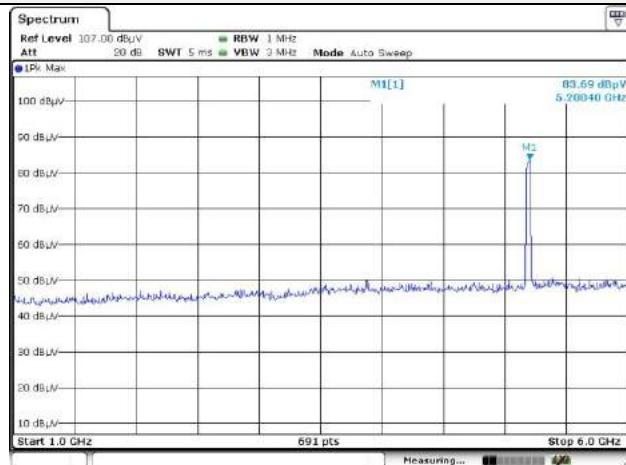
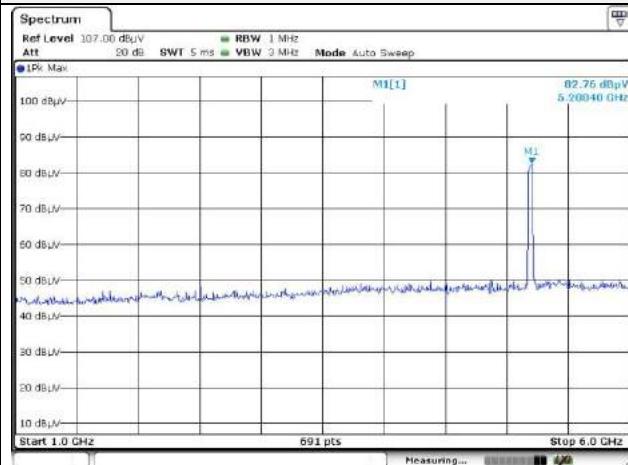
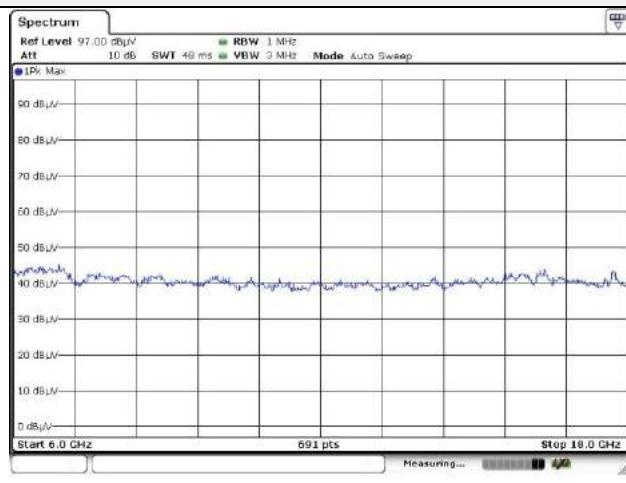
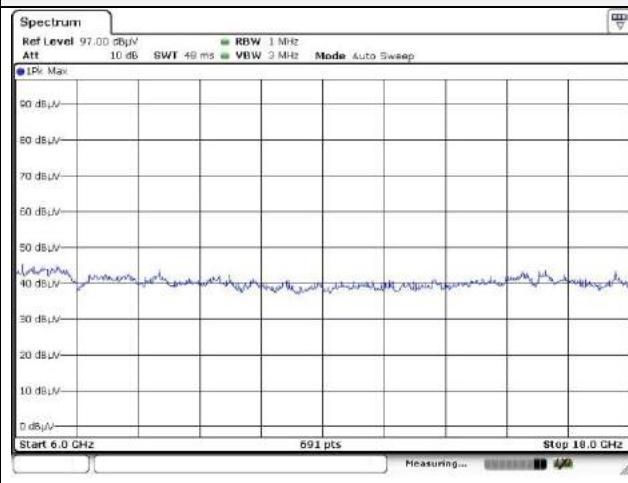
Channel: 38

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5150.00	44.81	Peak	H	-3.42	-	41.39	74.00	32.61
5150.00	44.99	Peak	V	-3.42	-	41.57	74.00	32.43



Note.

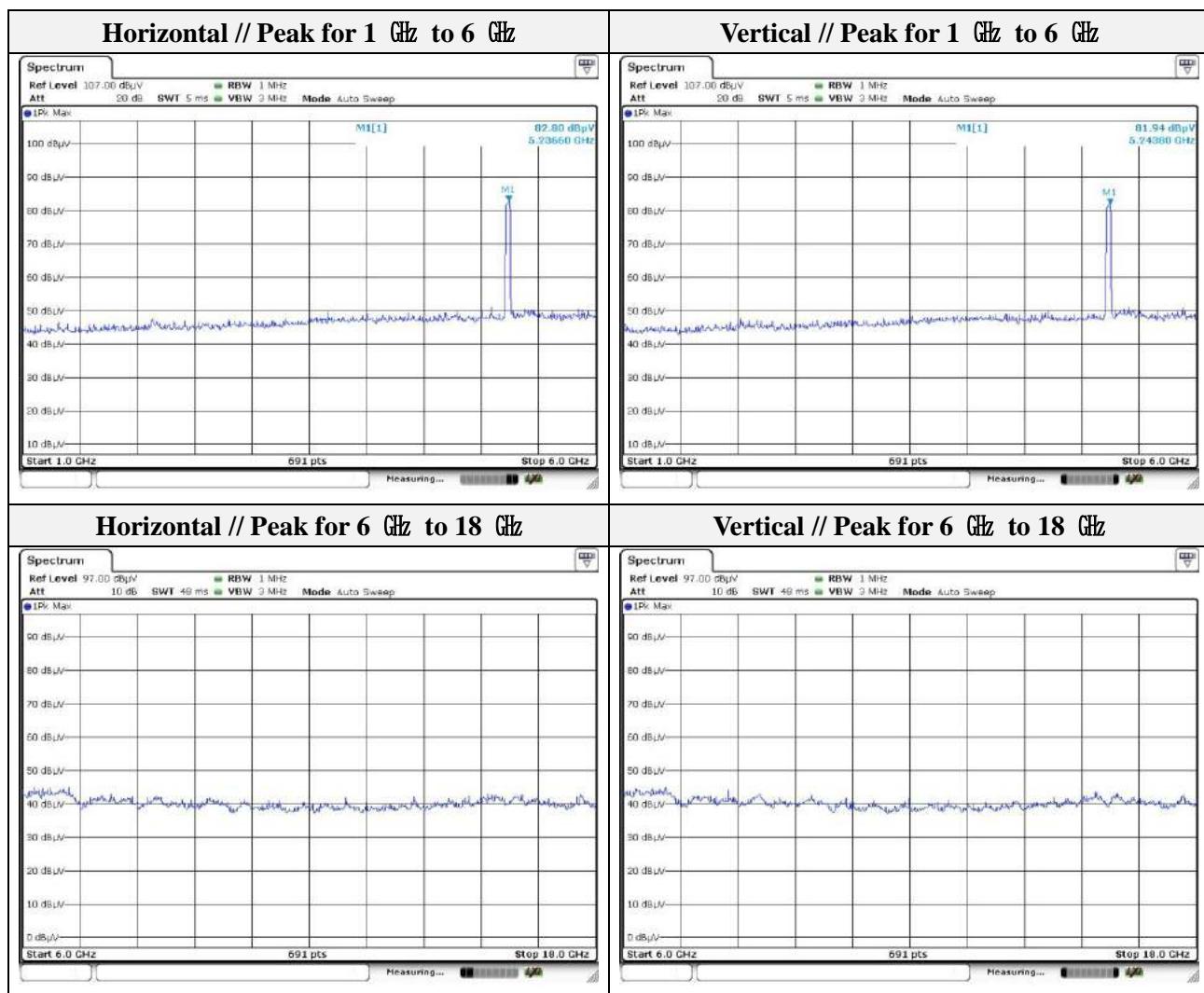
1. Average test was not performed because peak result is lower than the average limit.

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


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 The test results in the report only apply to the tested sample.

Mode: UNII-1(HT40)
 Distance of measurement: 3 meter
 Channel: 46

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								

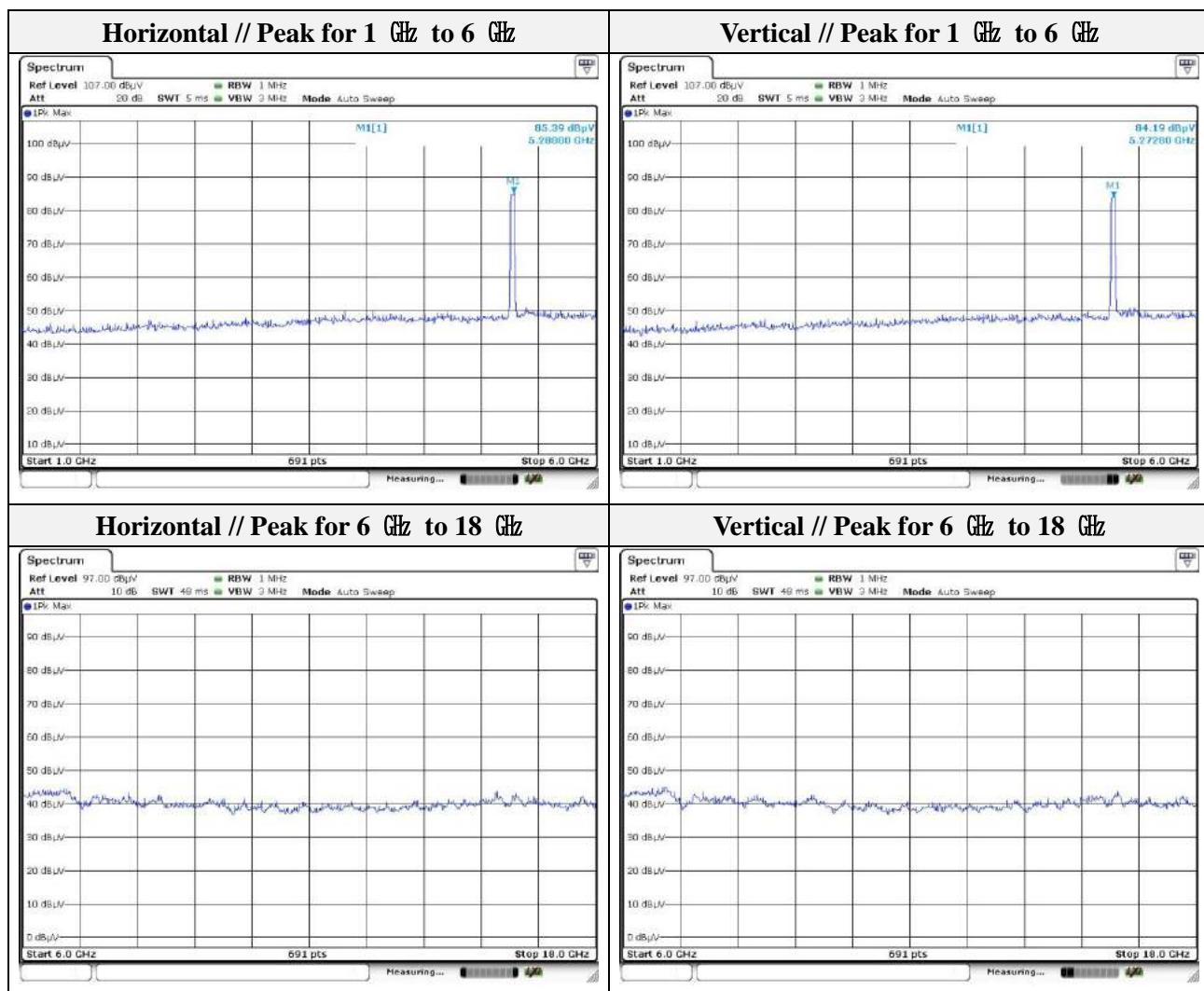


Note.

1. No spurious emission were detected above 6 GHz.

Mode: UNII-2A(HT40)
 Distance of measurement: 3 meter
 Channel: 54

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



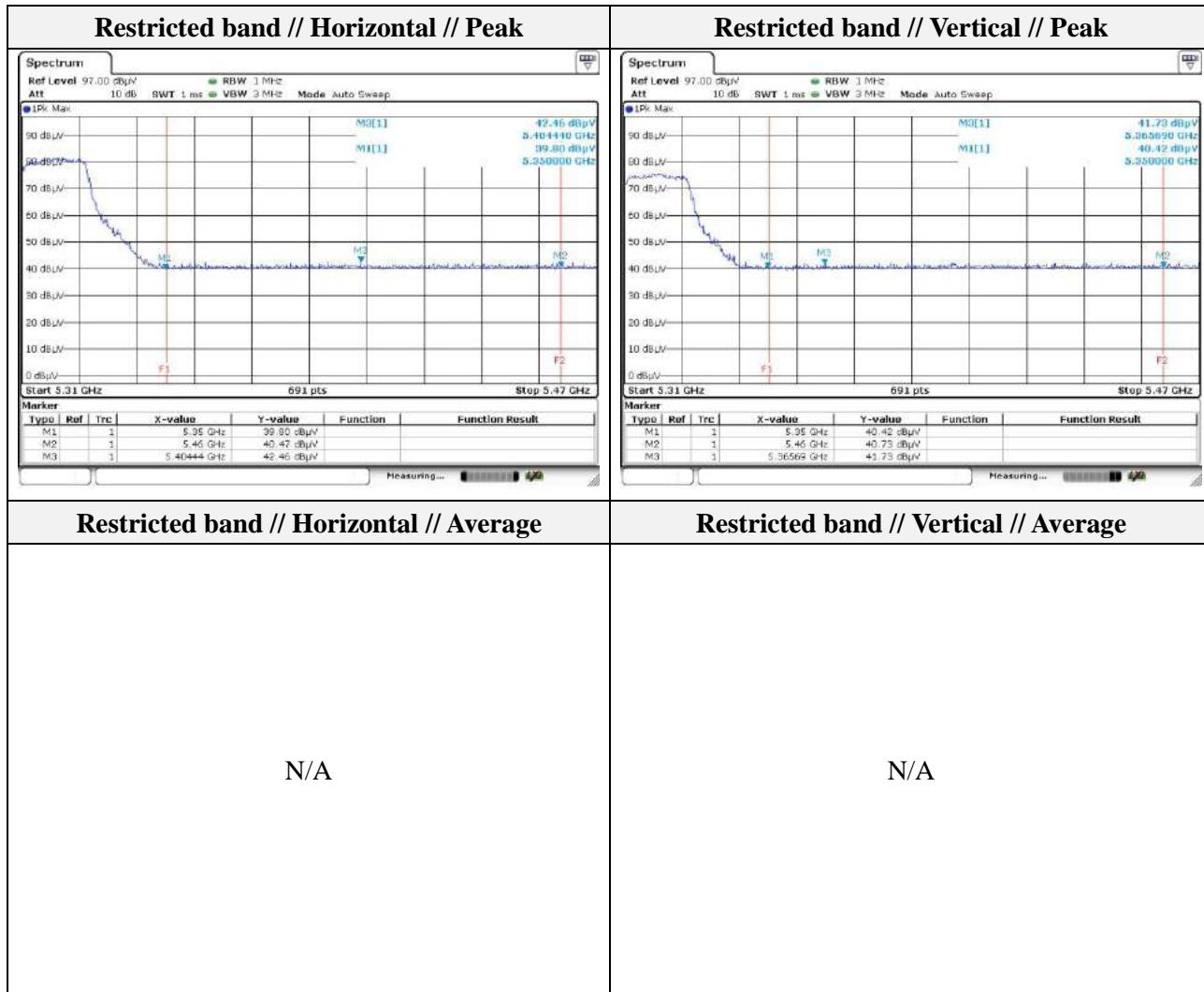
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Mode: **UNII-2A(HT40)**

Distance of measurement: **3 meter**

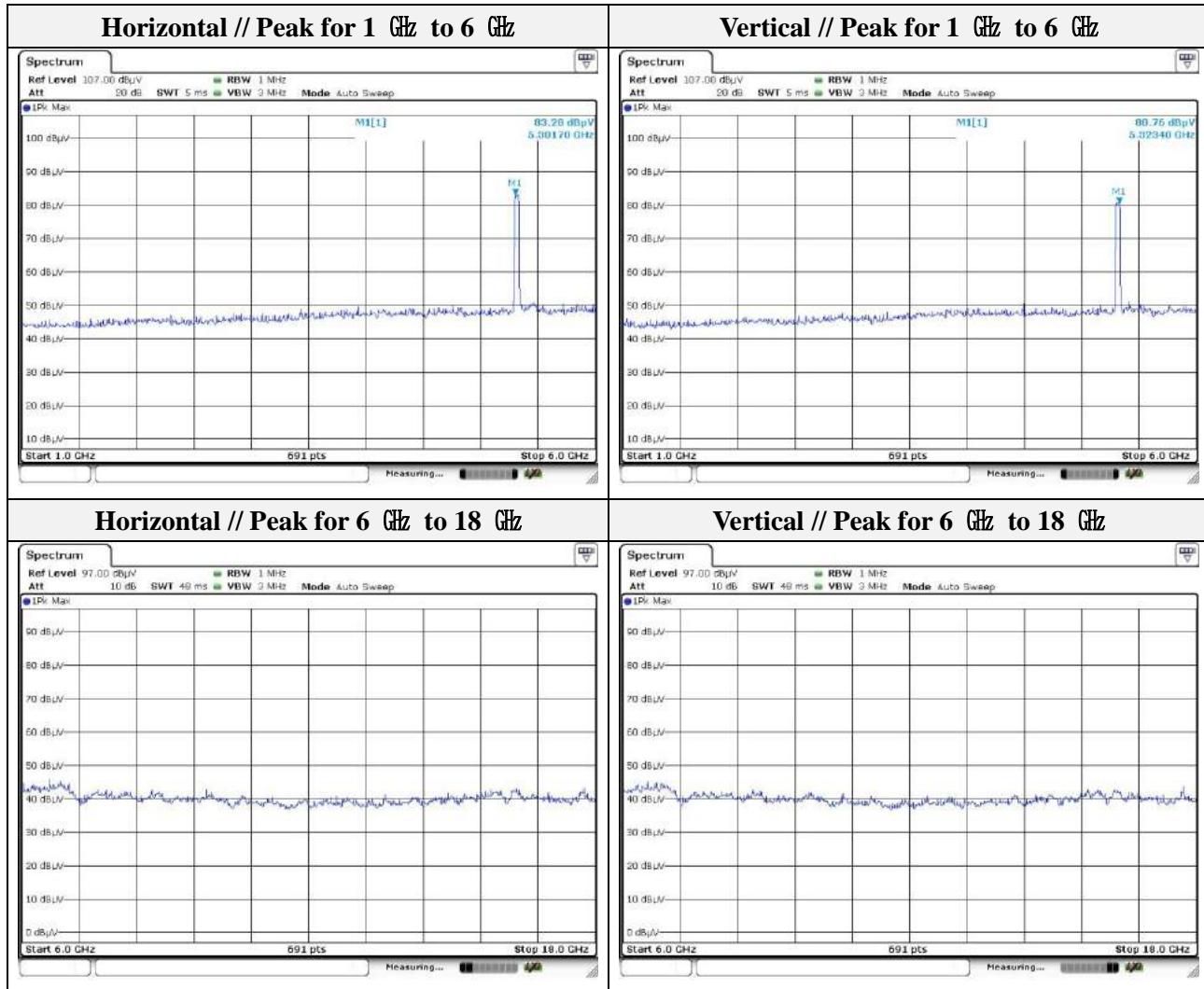
Channel: **62**

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)
5404.44	42.46	Peak	H	-3.62	-	38.84	74.00	35.16
5365.69	41.73	Peak	V	-3.59	-	38.14	74.00	35.86



Note.

1. Average test was not performed because peak result is lower than the average limit.



Note.

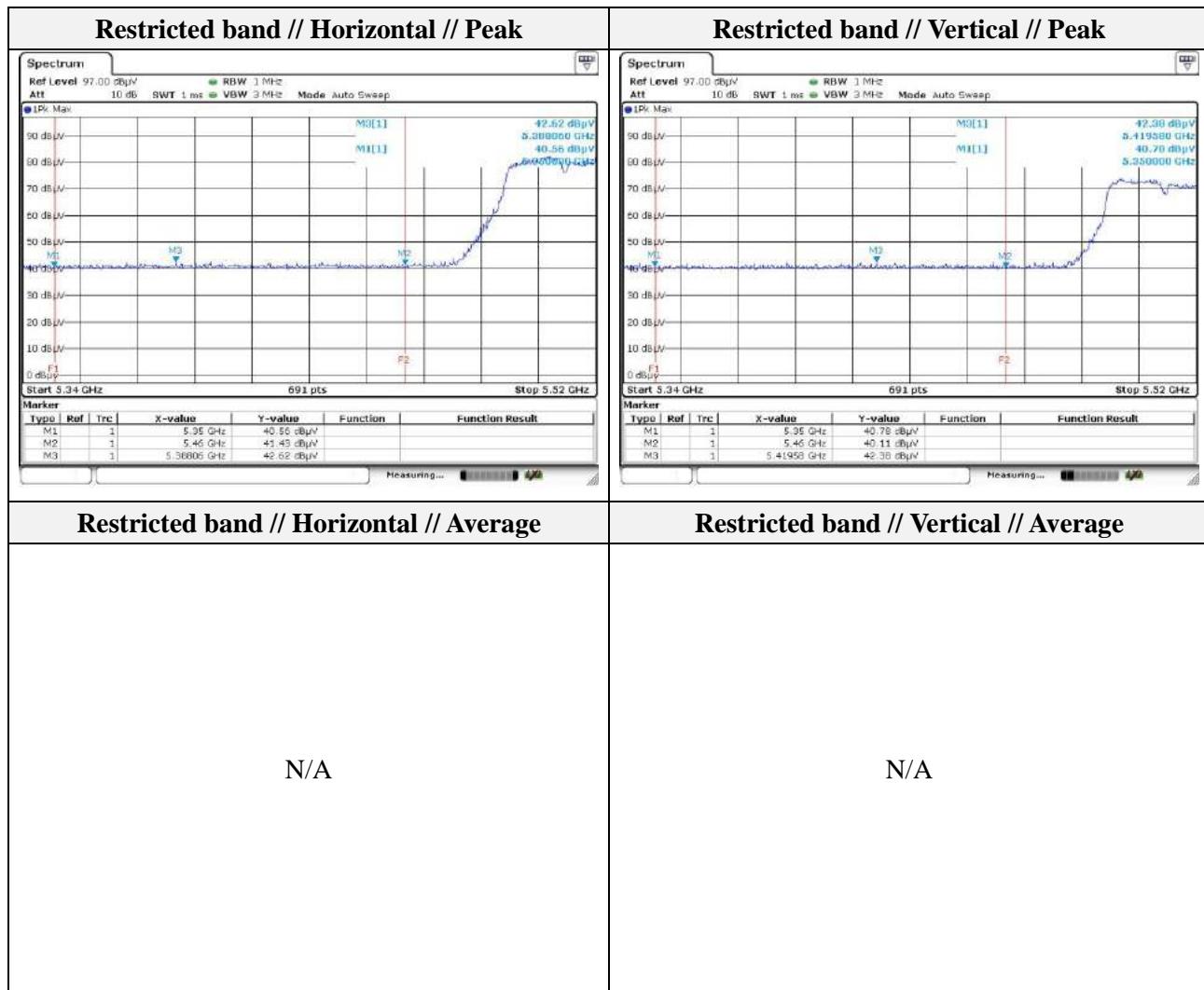
1. No spurious emission were detected above 6 GHz.

Mode: UNII-2C(HT40)

Distance of measurement: 3 meter

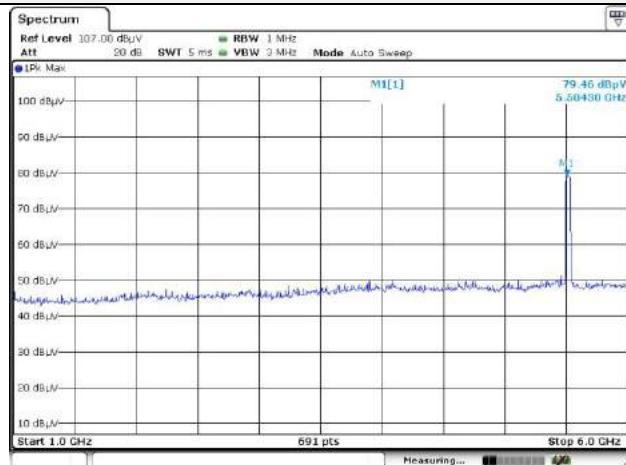
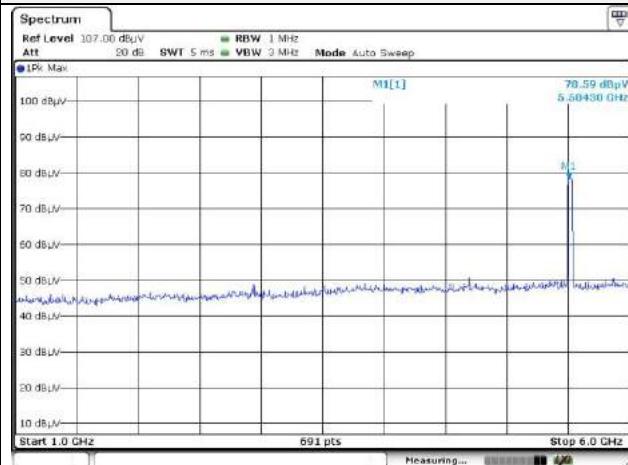
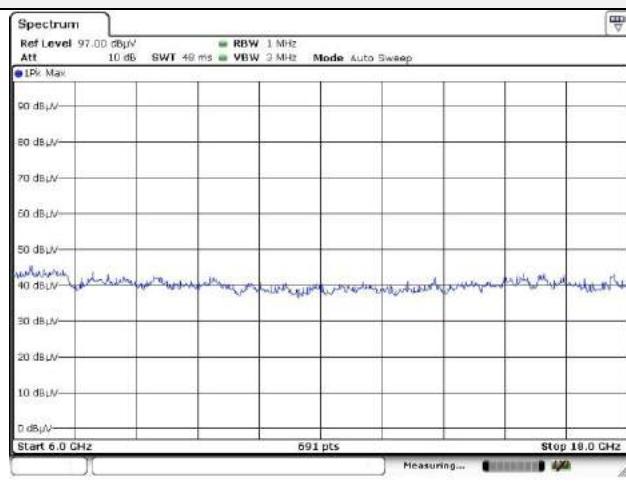
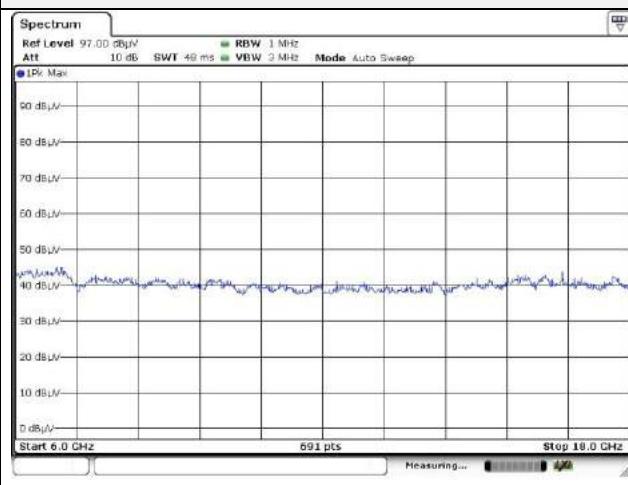
Channel: 102

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5388.06	42.62	Peak	H	-3.62	-	39.00	74.00	35.00
5419.58	42.38	Peak	V	-3.60	-	38.78	74.00	35.22



Note.

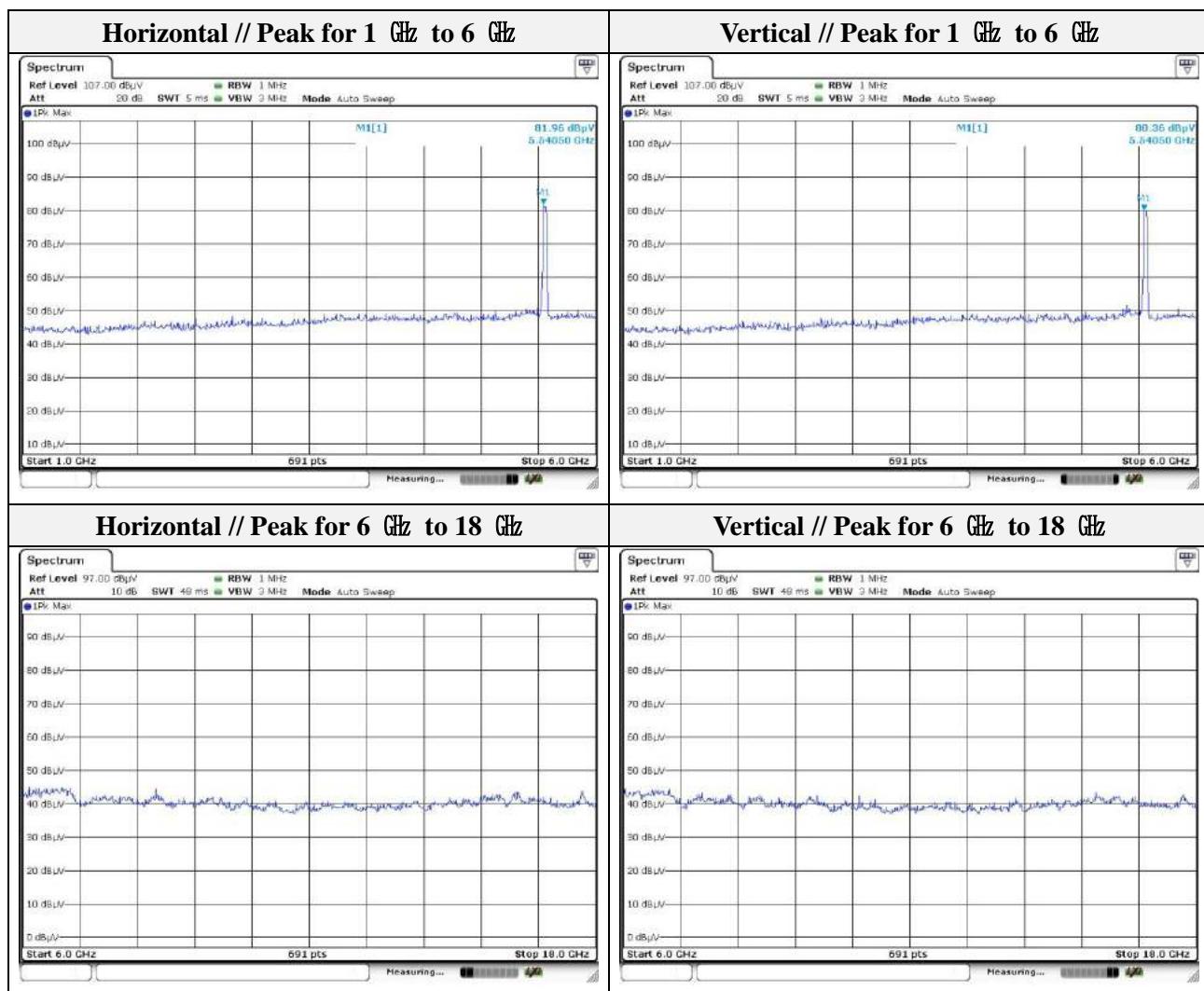
1. Average test was not performed because peak result is lower than the average limit.

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


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Mode: UNII-2C(HT40)
 Distance of measurement: 3 meter
 Channel: 110

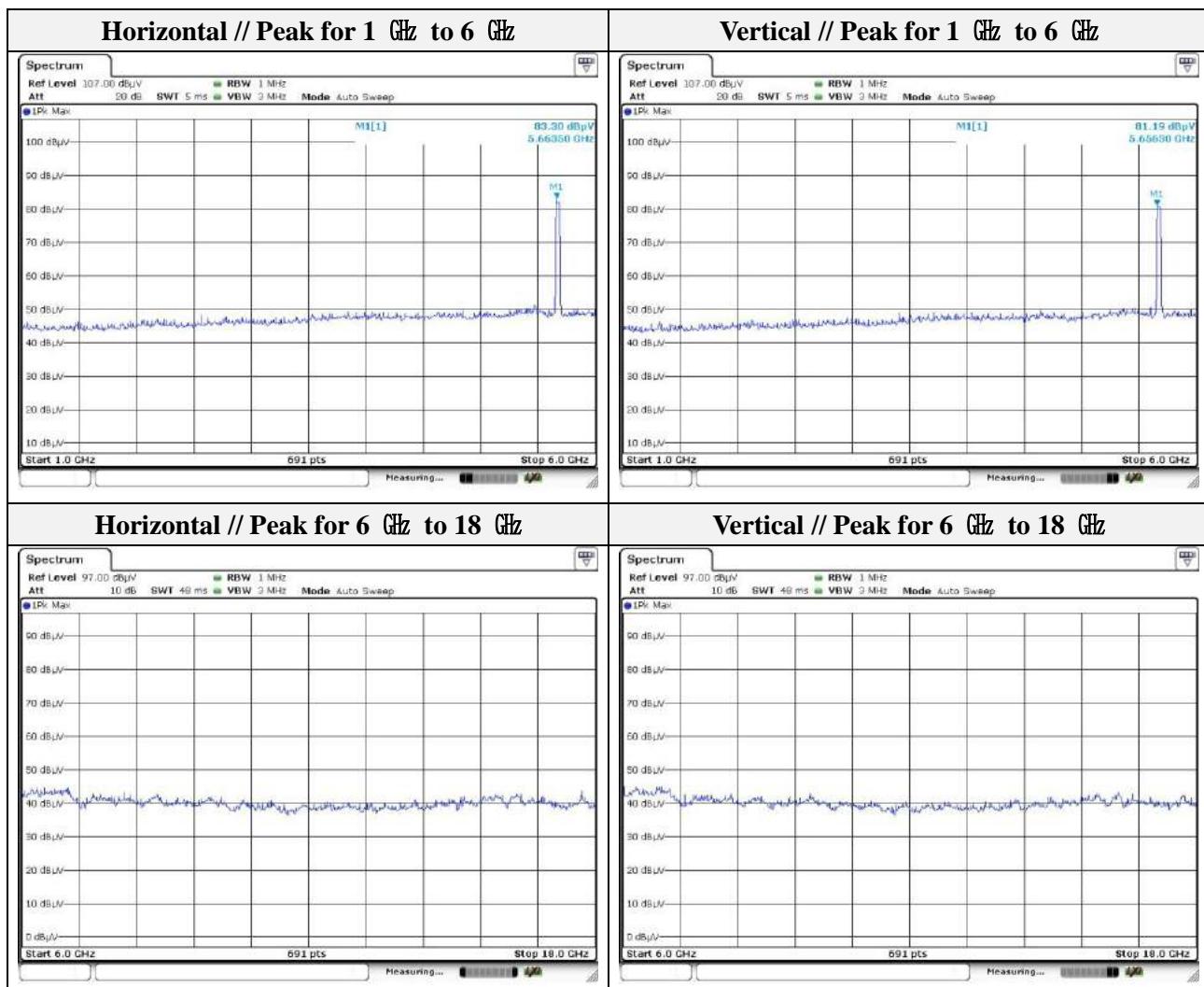
Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



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Mode: UNII-2C(HT40)
 Distance of measurement: 3 meter
 Channel: 134

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)
No spurious emission were detected above 6 GHz.								



Note.

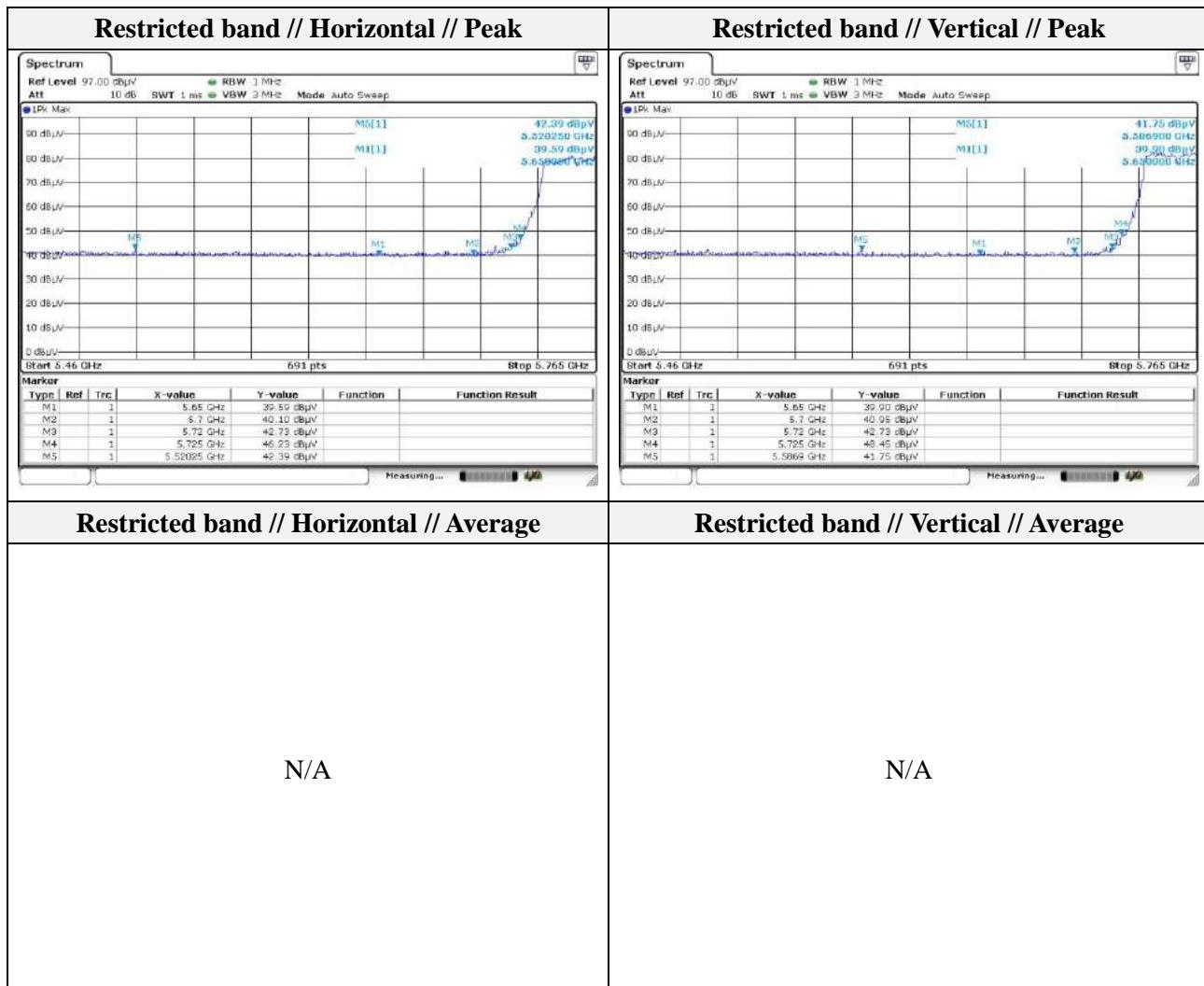
1. No spurious emission were detected above 6 GHz.

Mode: UNII-3(HT40)

Distance of measurement: 3 meter

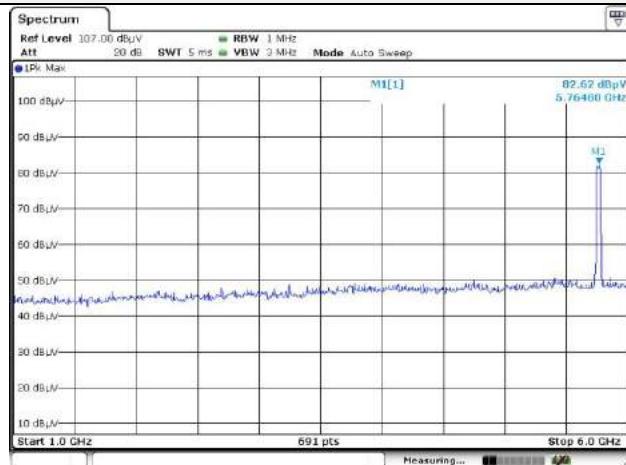
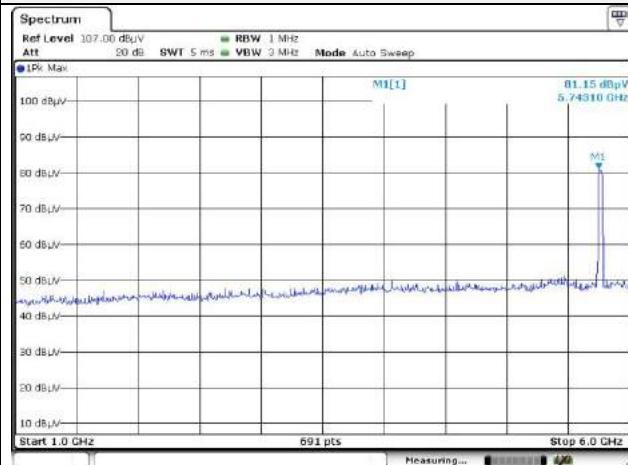
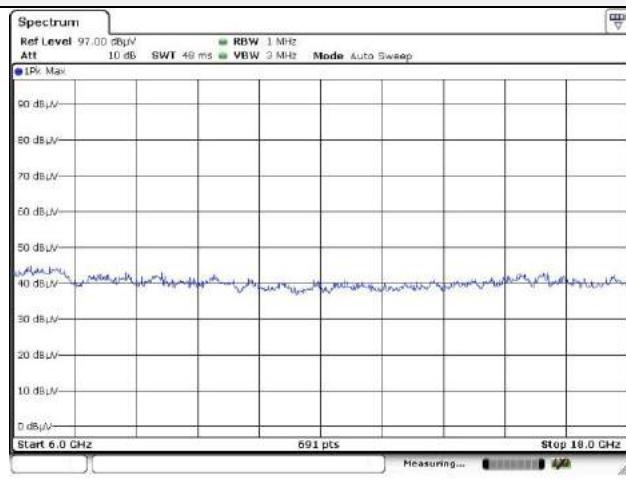
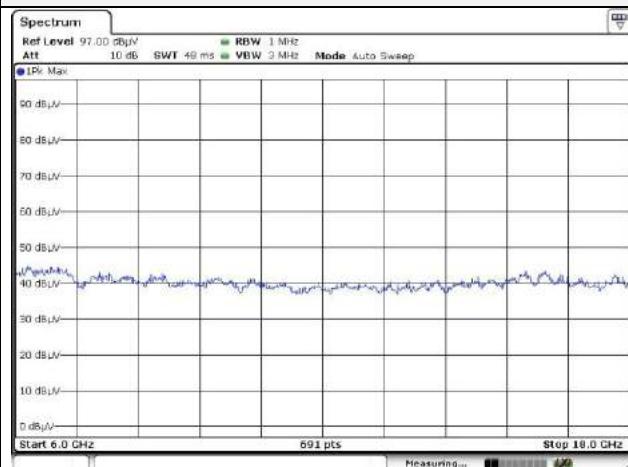
Channel: 151

Frequency (MHz)	Level (dB μ N)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5725.00	46.23	Peak	H	-2.49	-	43.74	122.20	78.46
5520.25	42.39	Peak	H	-3.38	-	39.01	68.20	29.19
5725.00	48.45	Peak	V	-2.49	-	45.96	122.20	76.24
5586.90	41.75	Peak	V	-3.02	-	38.73	68.20	29.47



Note.

1. Average test was not performed because peak result is lower than the average limit.

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


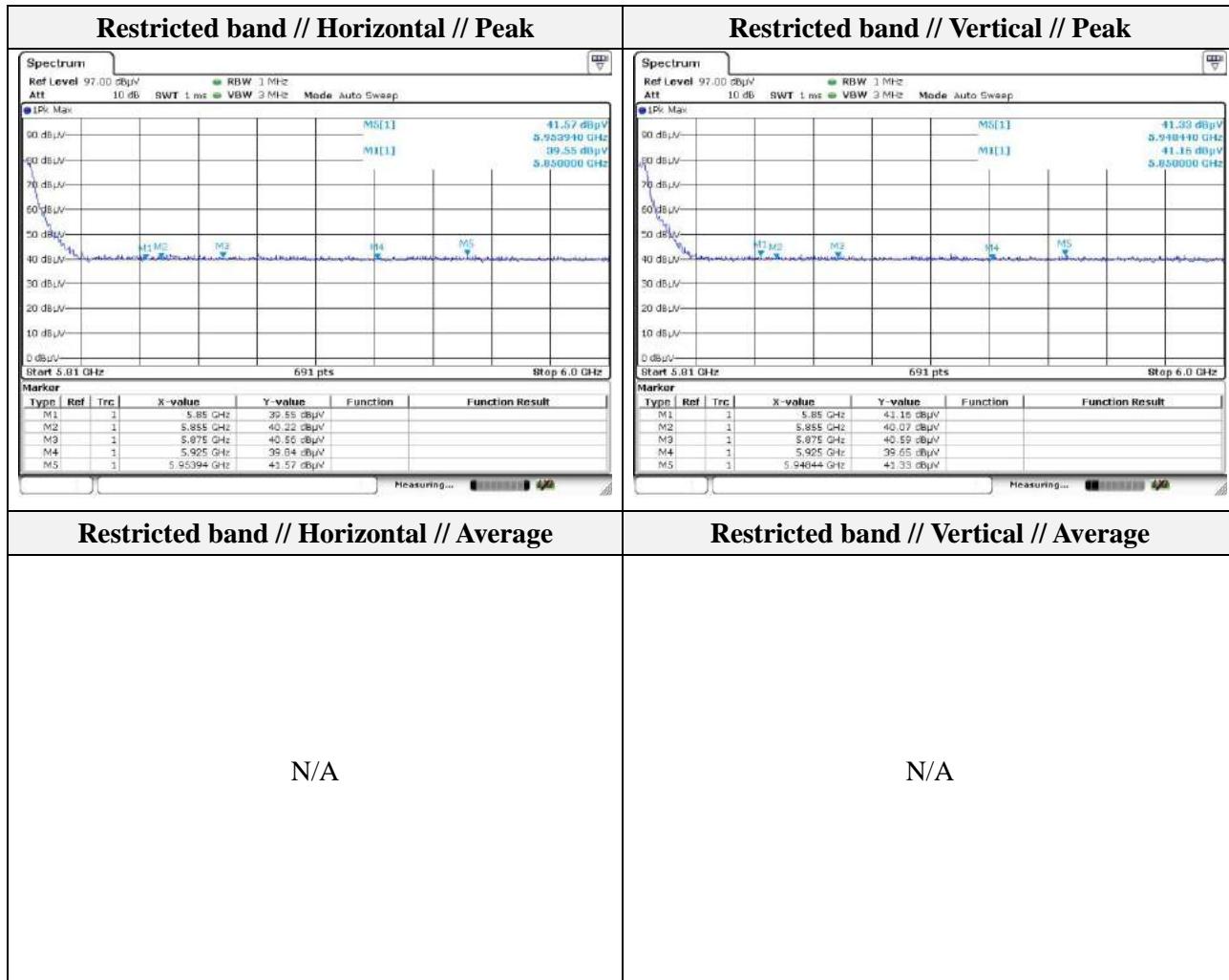
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Mode: UNII-3(HT40)

Distance of measurement: 3 meter

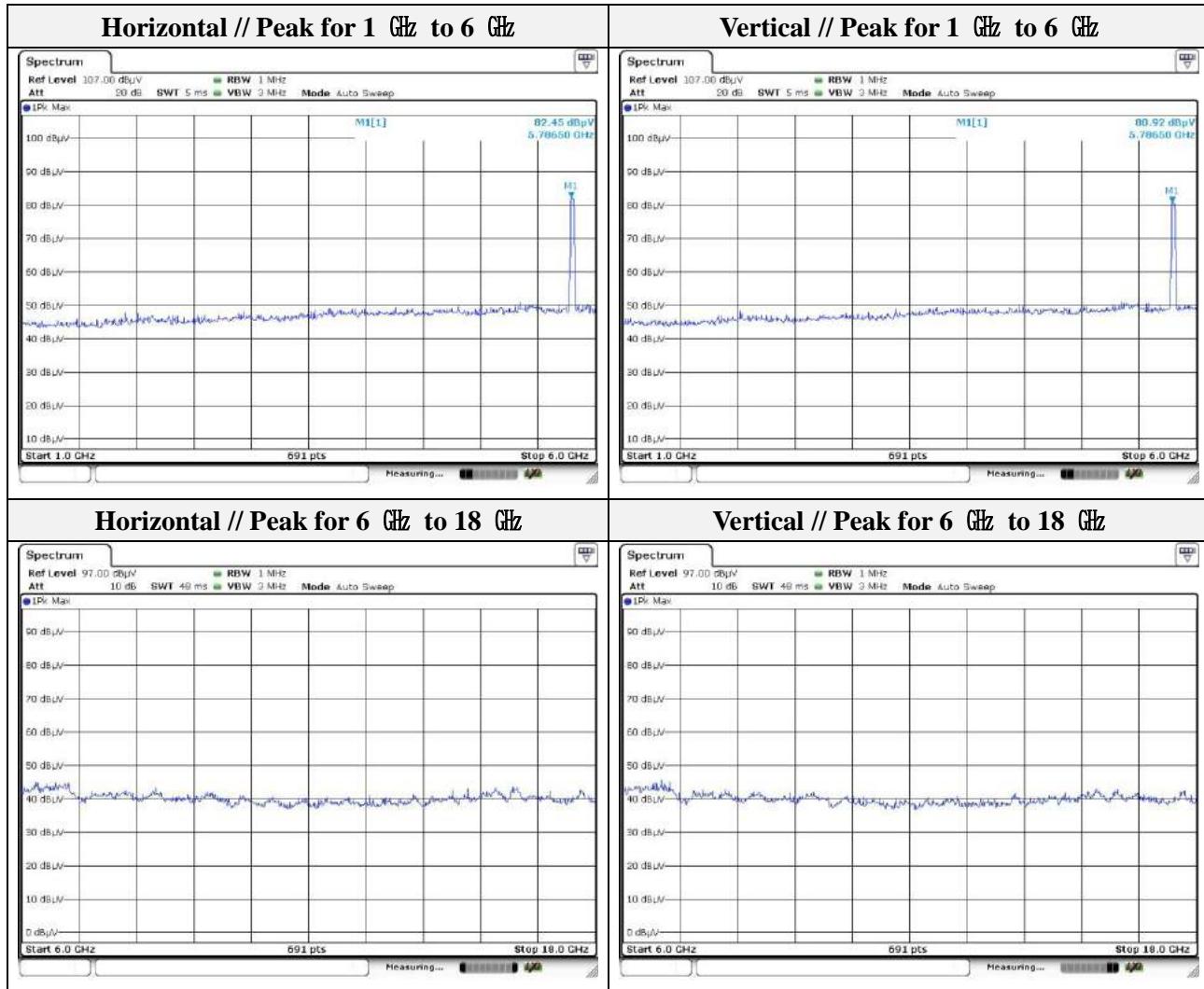
Channel: 159

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5850.00	39.55	Peak	H	-2.07	-	37.48	122.20	84.72
5925.00	39.84	Peak	H	-1.85	-	37.99	68.20	30.21
5953.94	41.57	Peak	H	-1.76	-	39.81	68.20	28.39
5850.00	41.16	Peak	V	-2.07	-	39.09	122.20	83.11
5925.00	39.65	Peak	V	-1.85	-	37.80	68.20	30.40
5948.44	41.33	Peak	V	-1.78	-	39.55	68.20	28.65



Note.

1. Average test was not performed because peak result is lower than the average limit.



Note.

1. No spurious emission were detected above 6 GHz.

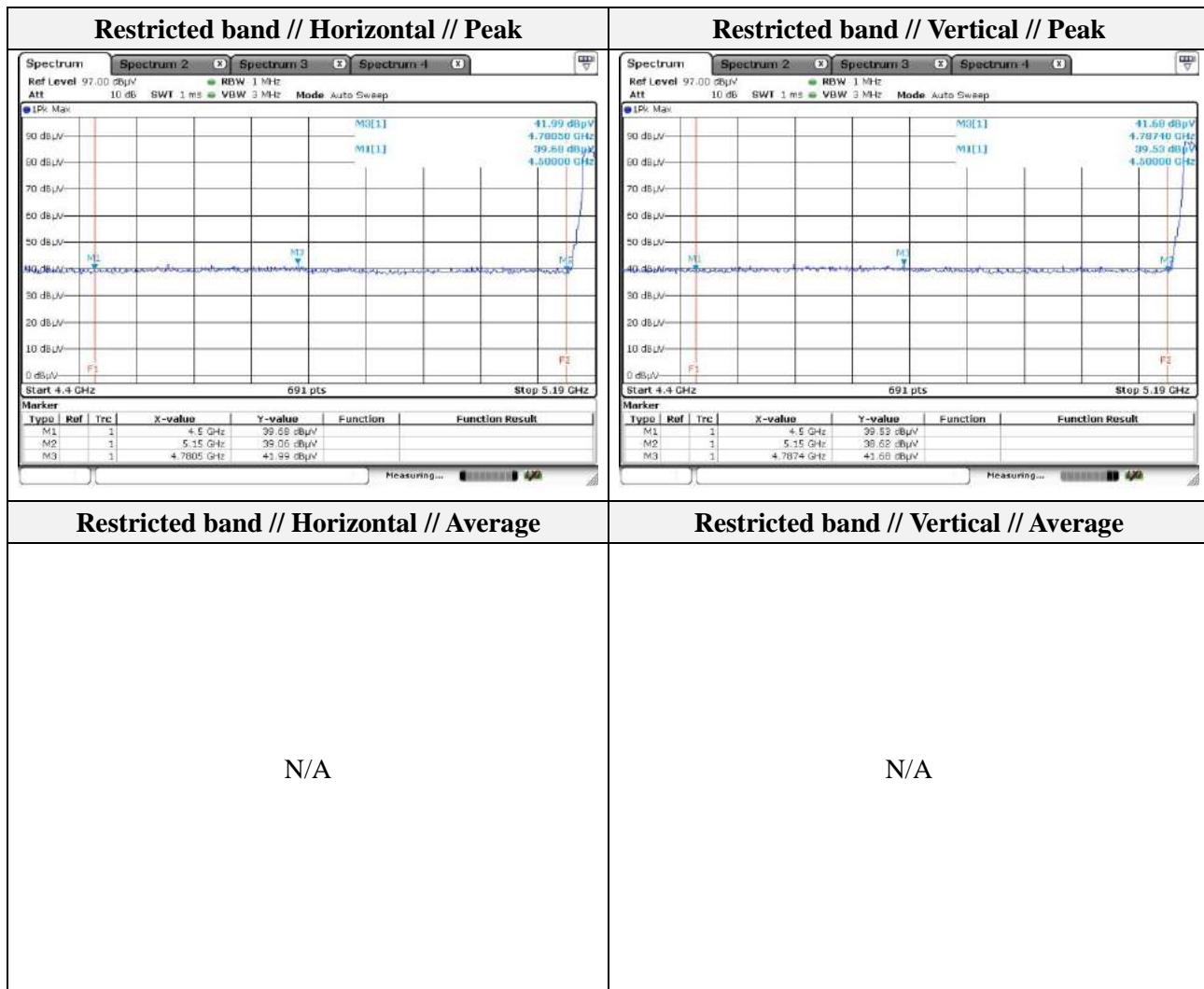
MIMO

Mode: UNII-1(HT20)

Distance of measurement: 3 meter

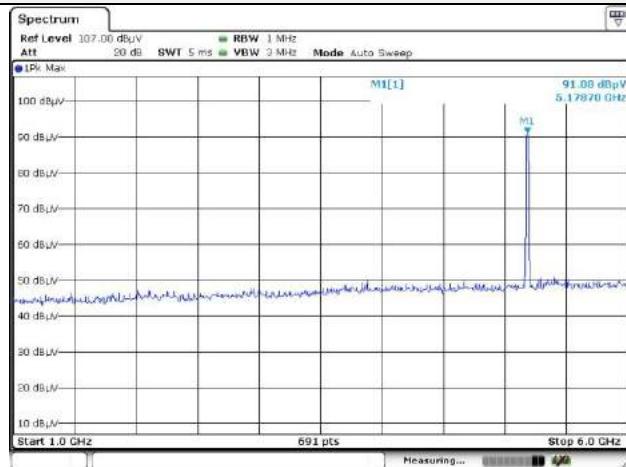
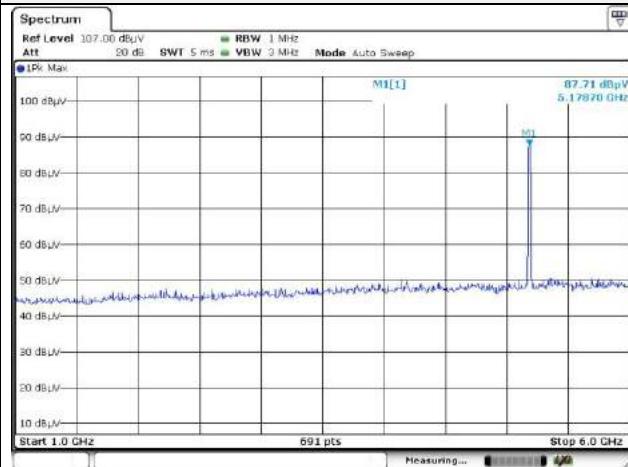
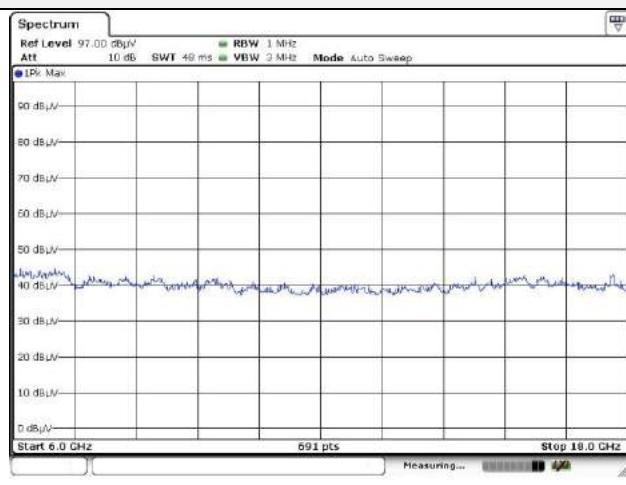
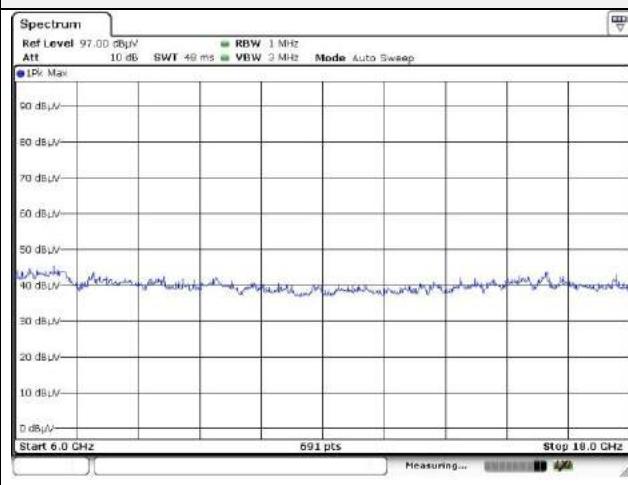
Channel: 36

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
4780.50	41.99	Peak	H	-4.21	-	37.78	74.00	36.22
4787.40	41.68	Peak	V	-4.18	-	37.50	74.00	36.50



Note.

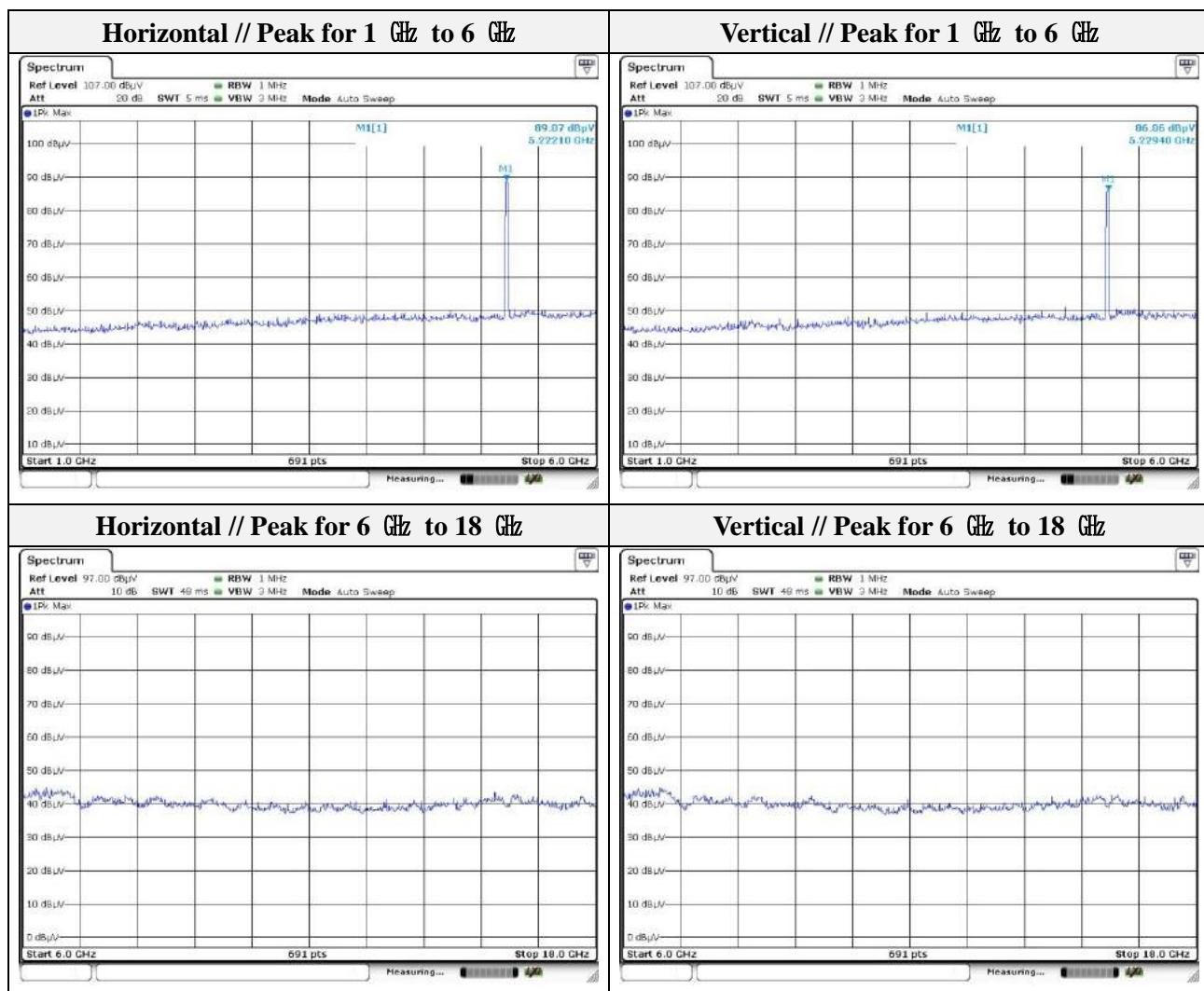
1. Average test was not performed because peak result is lower than the average limit.

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


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Mode: UNII-1(HT20)
 Distance of measurement: 3 meter
 Channel: 44

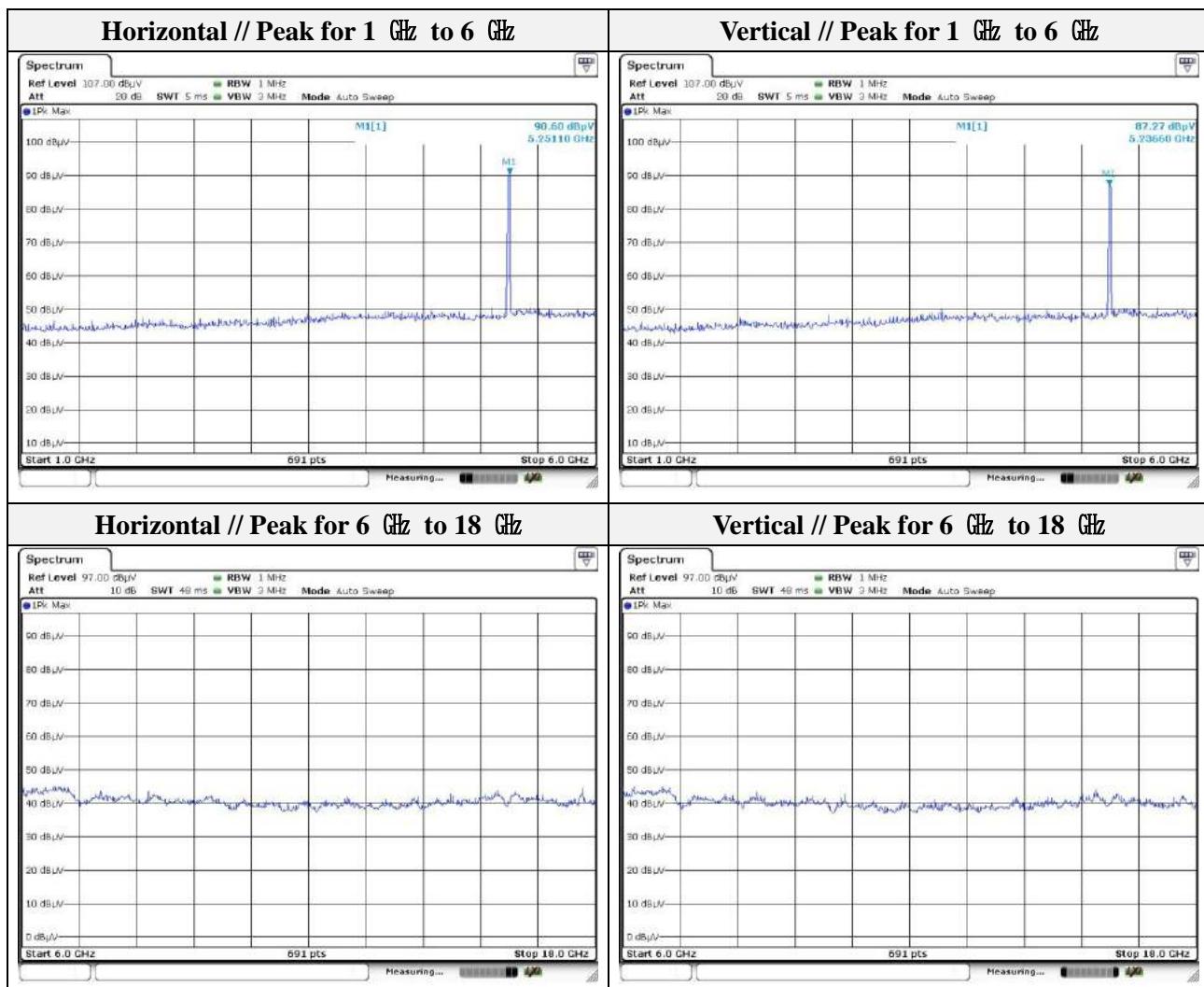
Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



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Mode: UNII-1(HT20)
 Distance of measurement: 3 meter
 Channel: 48

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)
No spurious emission were detected above 6 GHz.								



Note.

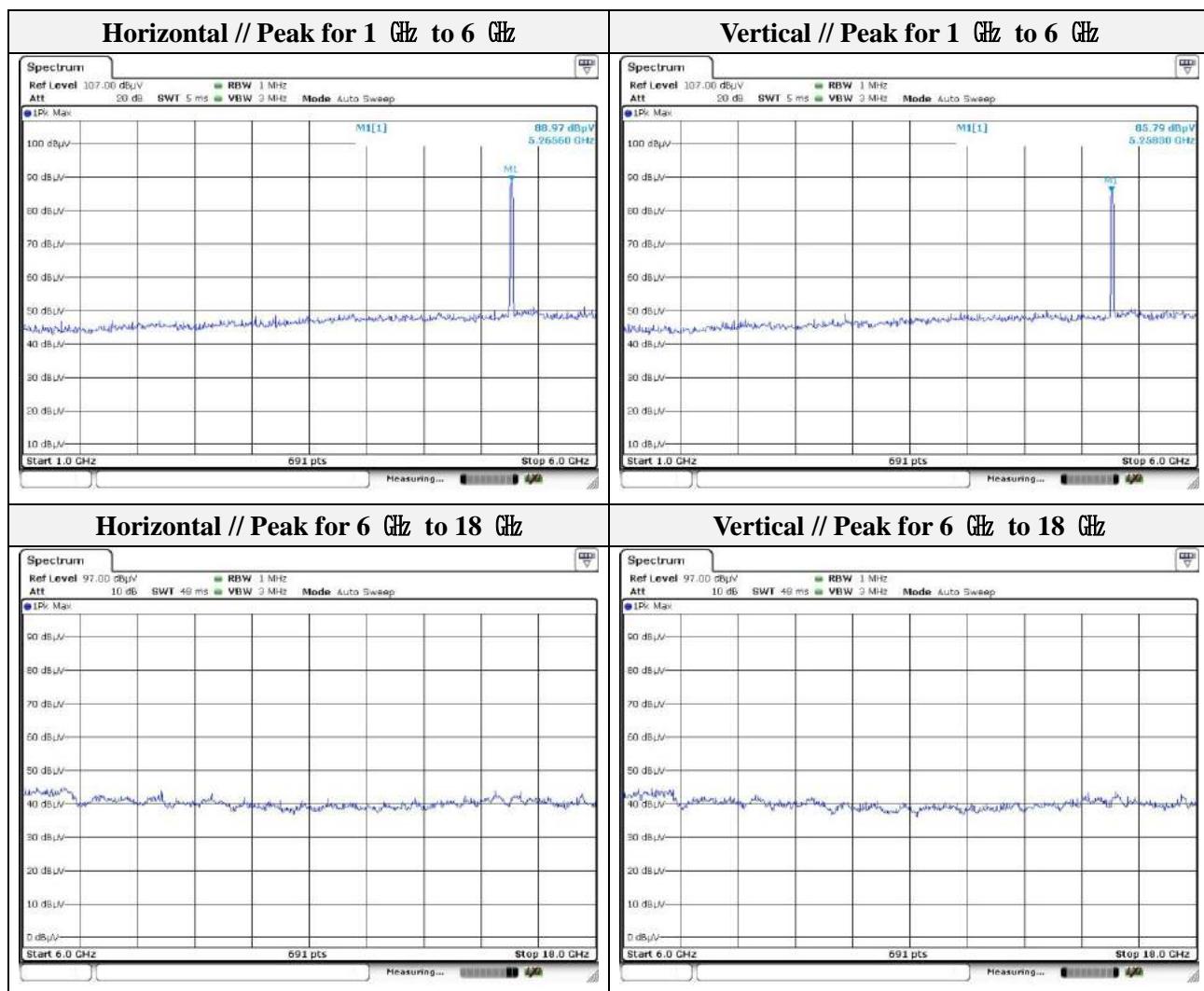
1. No spurious emission were detected above 6 GHz.

Mode: UNII-2A(HT20)

Distance of measurement: 3 meter

Channel: 52

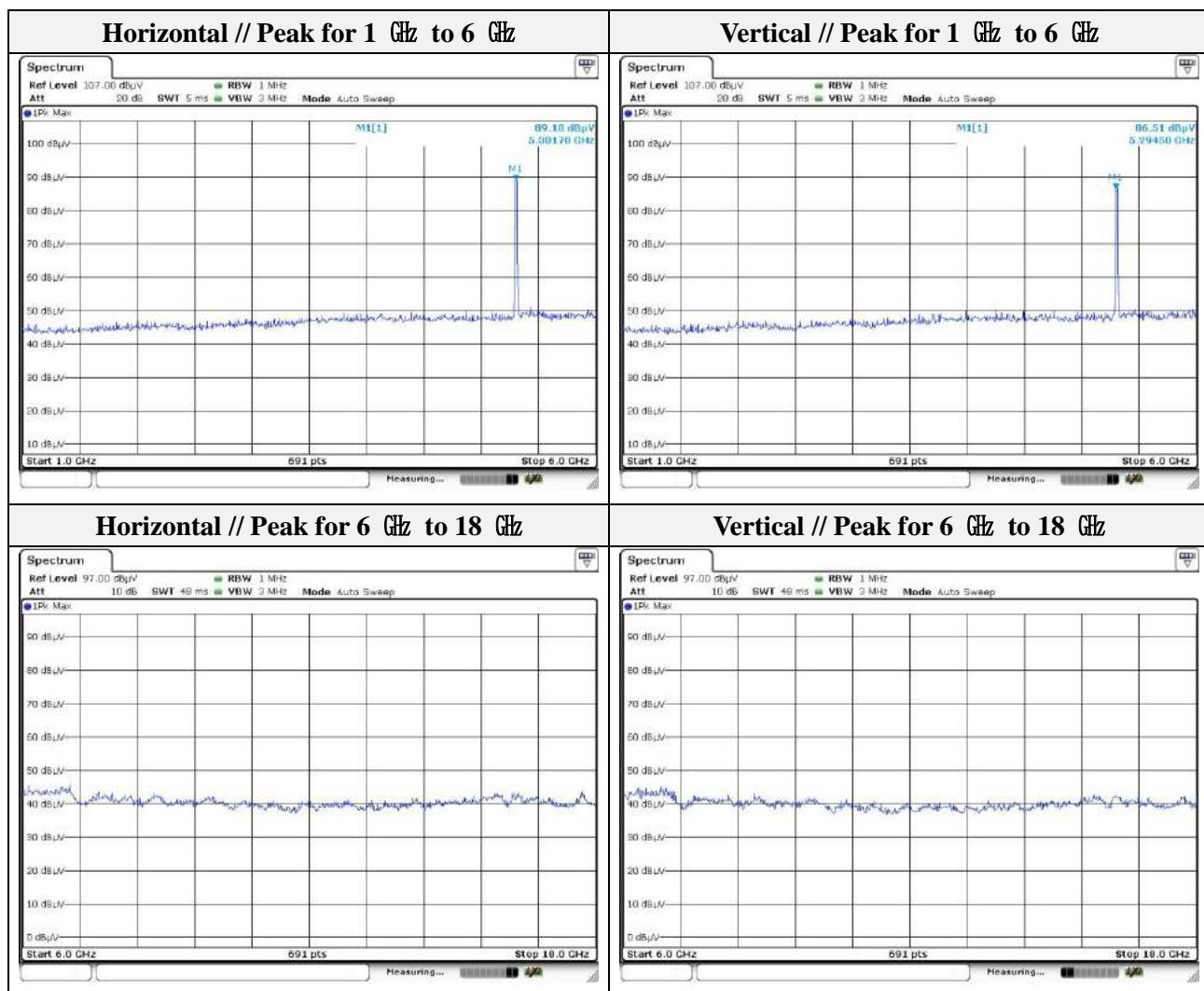
Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



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Mode: UNII-2A(HT20)
 Distance of measurement: 3 meter
 Channel: 60

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



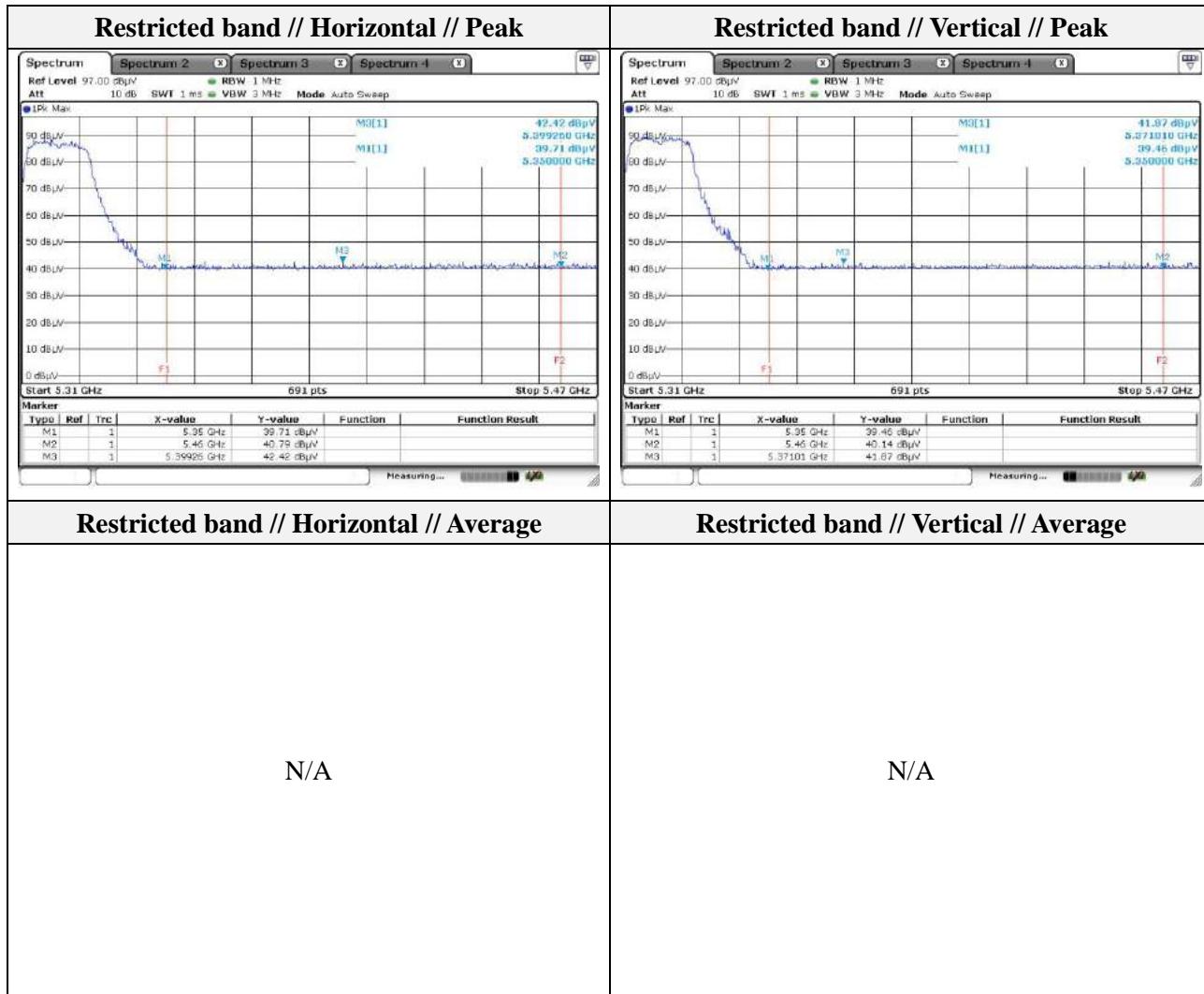
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Mode: **UNII-2A(HT20)**

Distance of measurement: **3 meter**

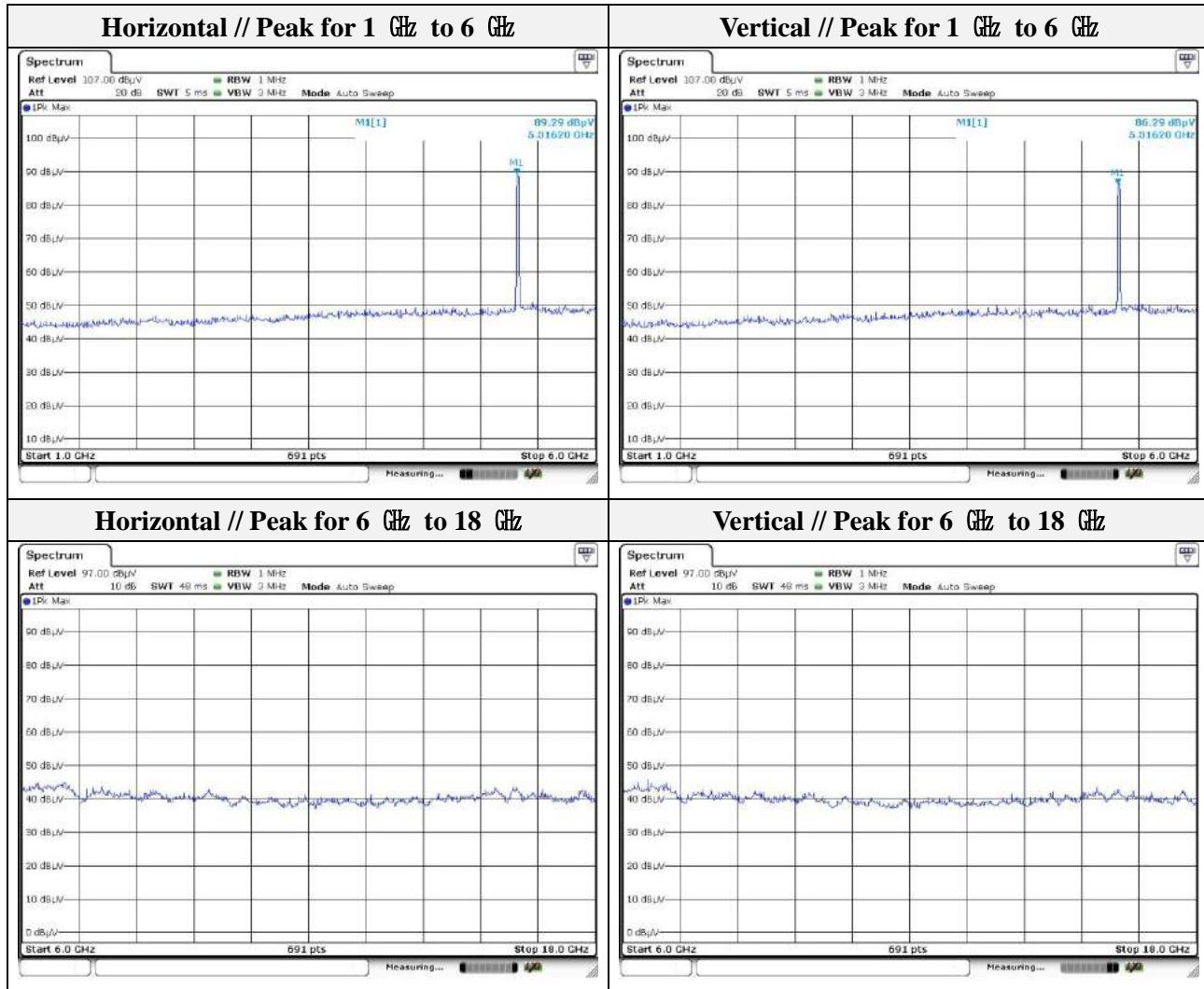
Channel: **64**

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)
5399.26	42.42	Peak	H	-3.63	-	38.79	74.00	35.21
5371.01	41.87	Peak	V	-3.60	-	38.27	74.00	35.73



Note.

1. Average test was not performed because peak result is lower than the average limit.



Note.

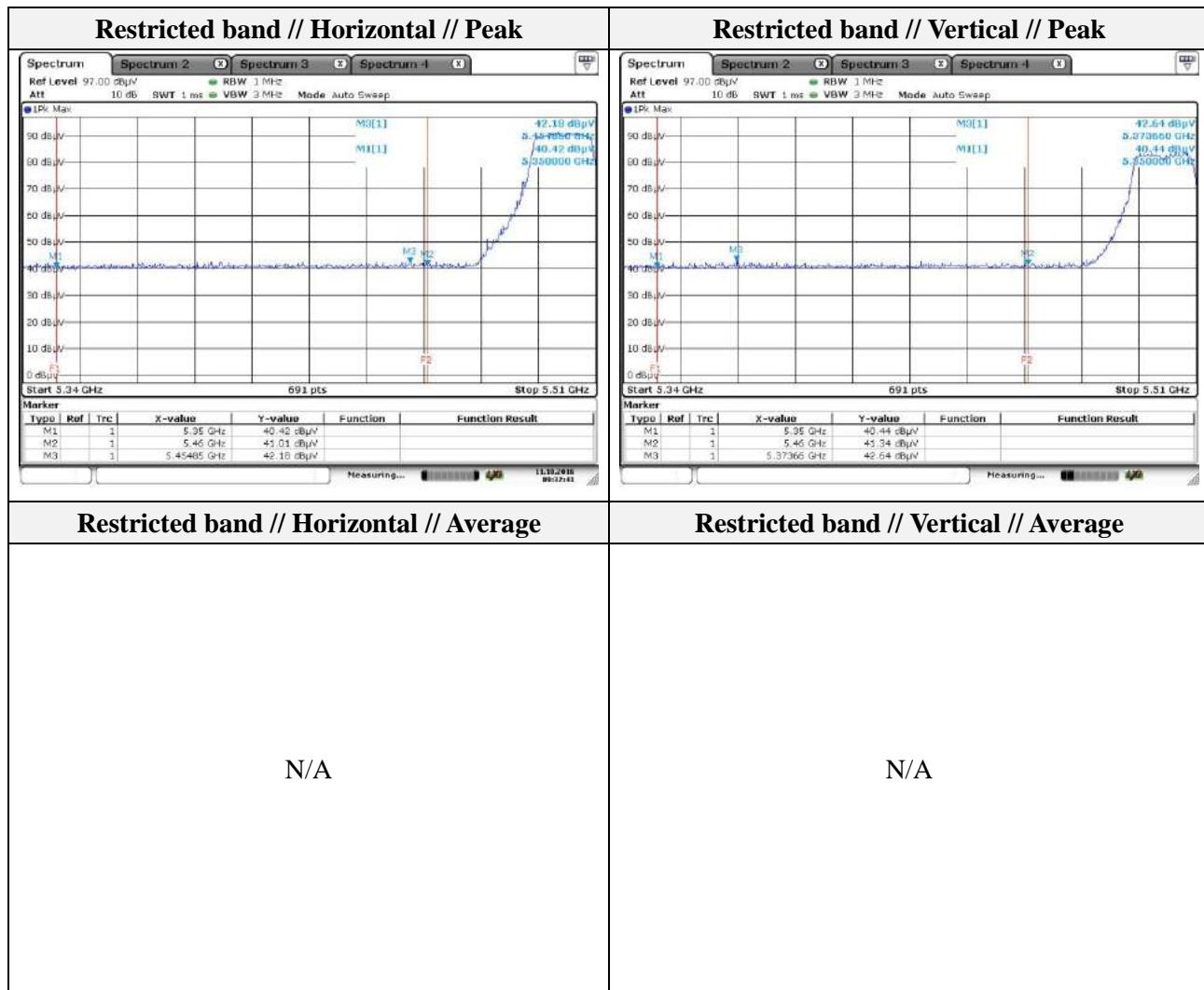
1. No spurious emission were detected above 6 GHz.

Mode: UNII-2C(HT20)

Distance of measurement: 3 meter

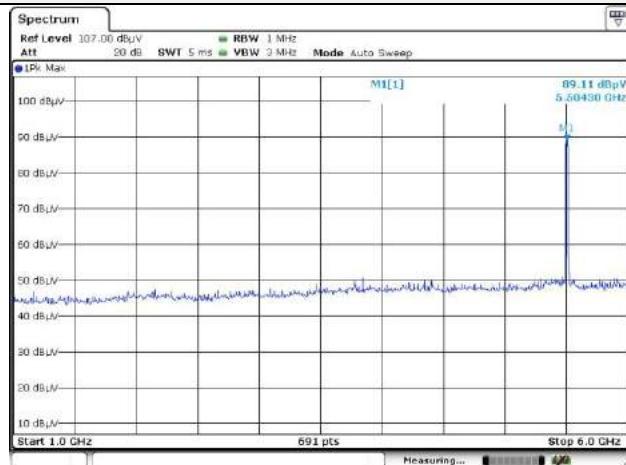
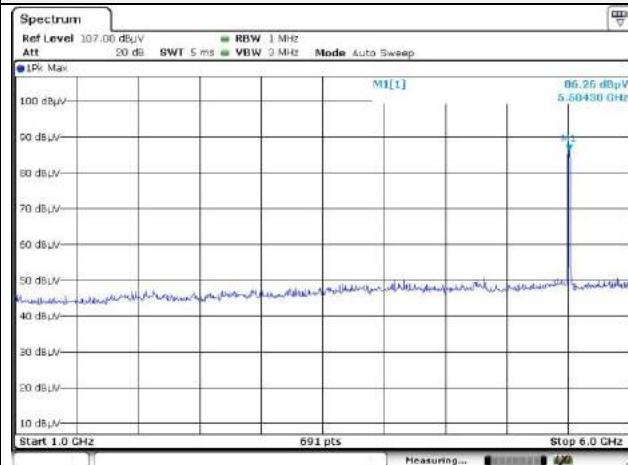
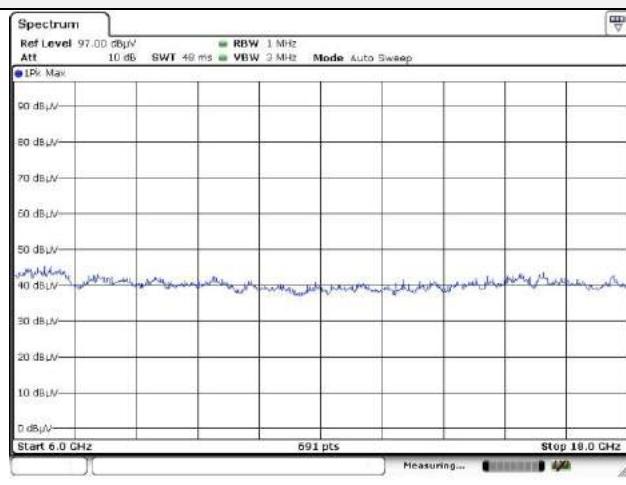
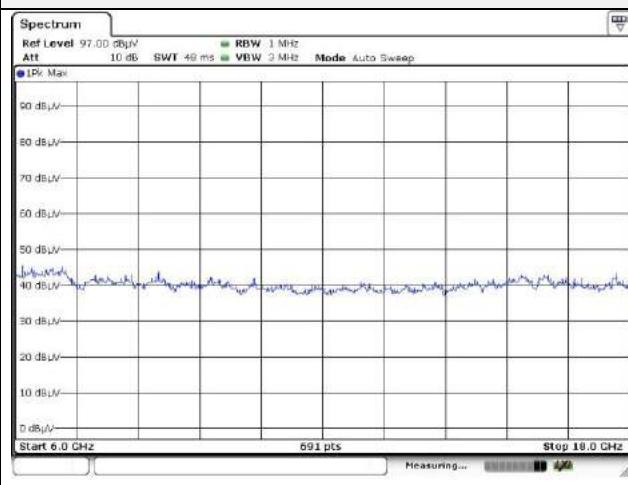
Channel: 100

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5454.85	42.18	Peak	H	-3.55	-	38.63	74.00	35.37
5373.66	42.64	Peak	V	-3.60	-	39.04	74.00	34.96



Note.

1. Average test was not performed because peak result is lower than the average limit.

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


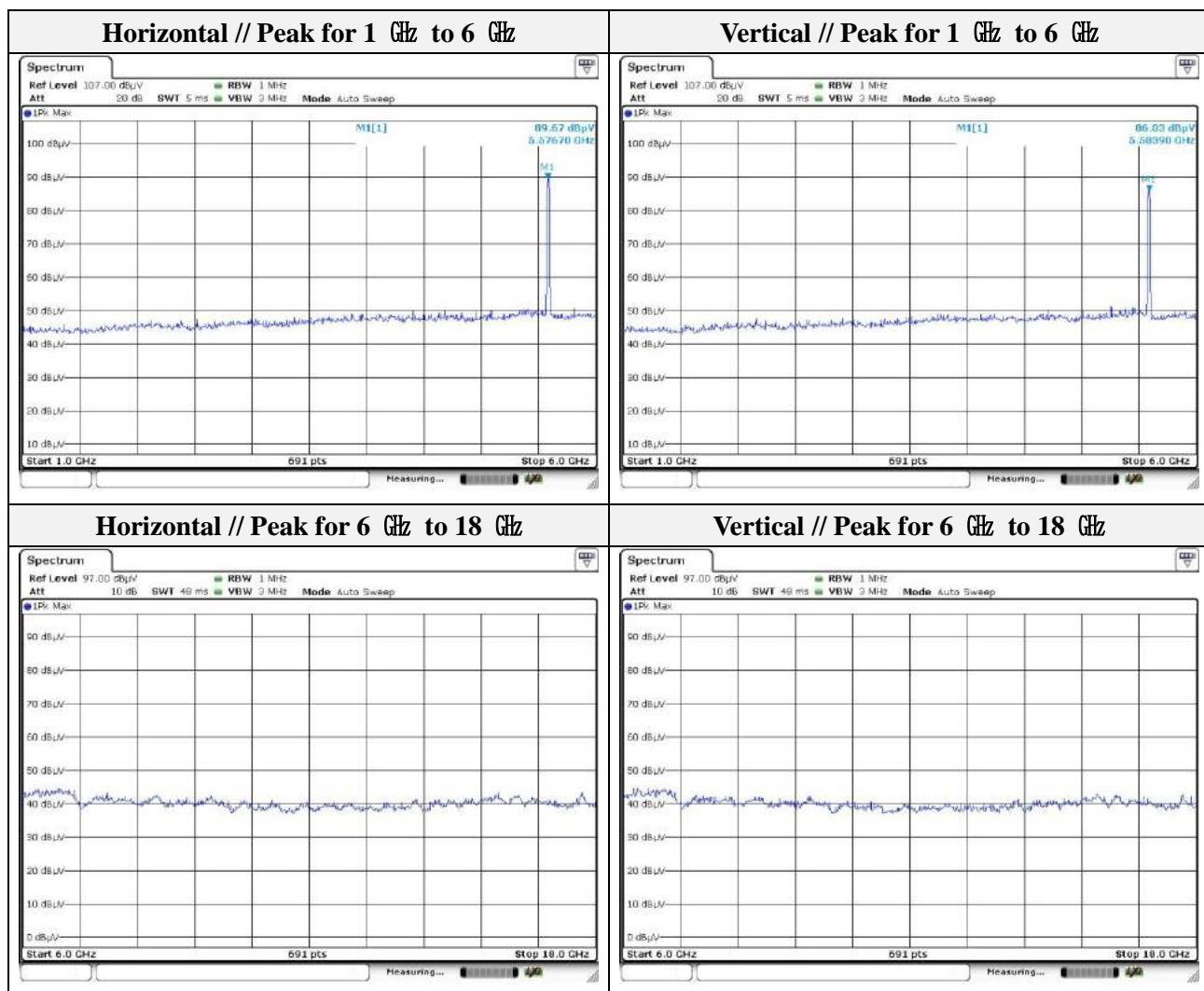
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Mode: UNII-2C(HT20)

Distance of measurement: 3 meter

Channel: 116

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



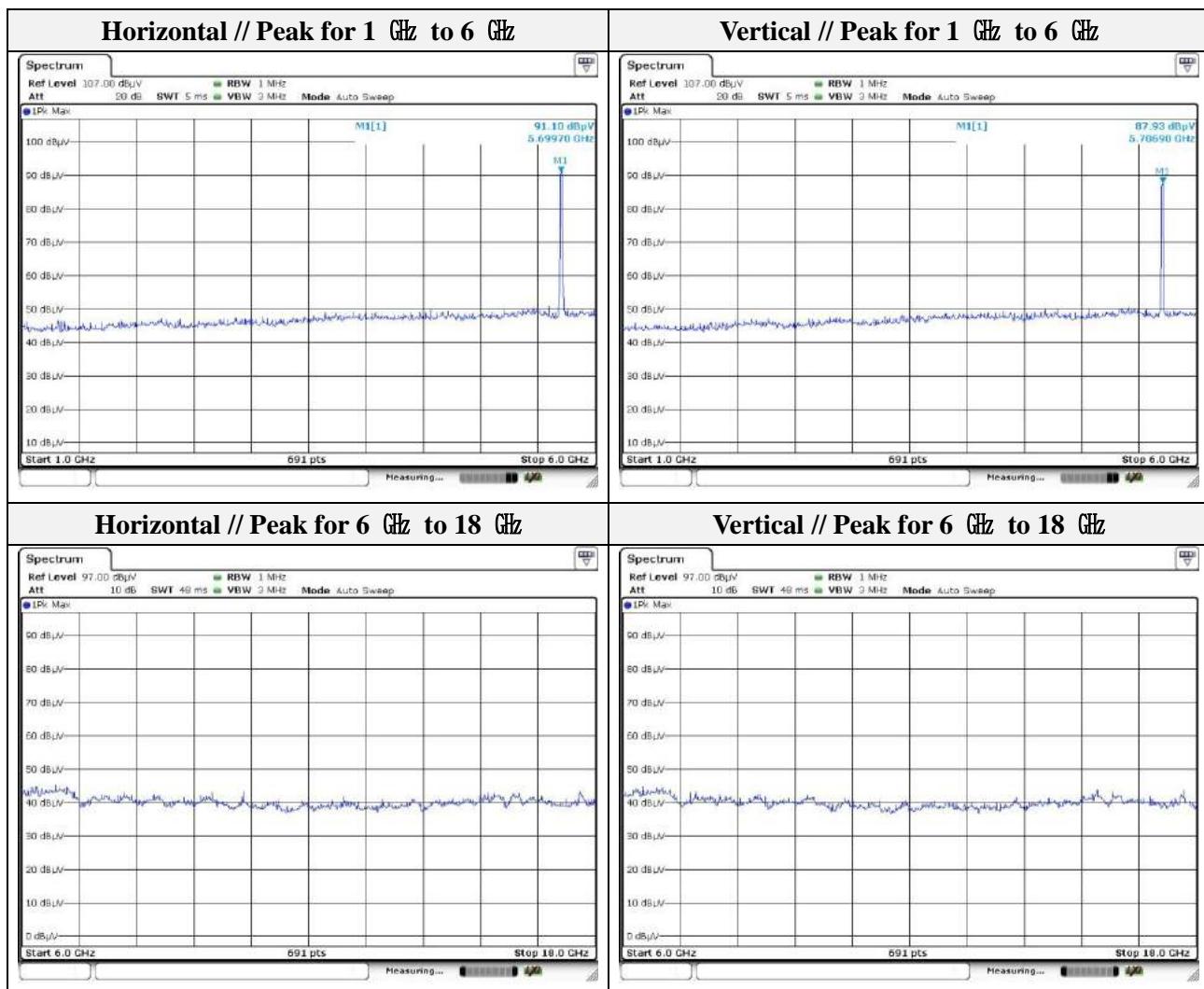
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Mode: UNII-2C(HT20)

Distance of measurement: 3 meter

Channel: 140

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)
No spurious emission were detected above 6 GHz.								



Note.

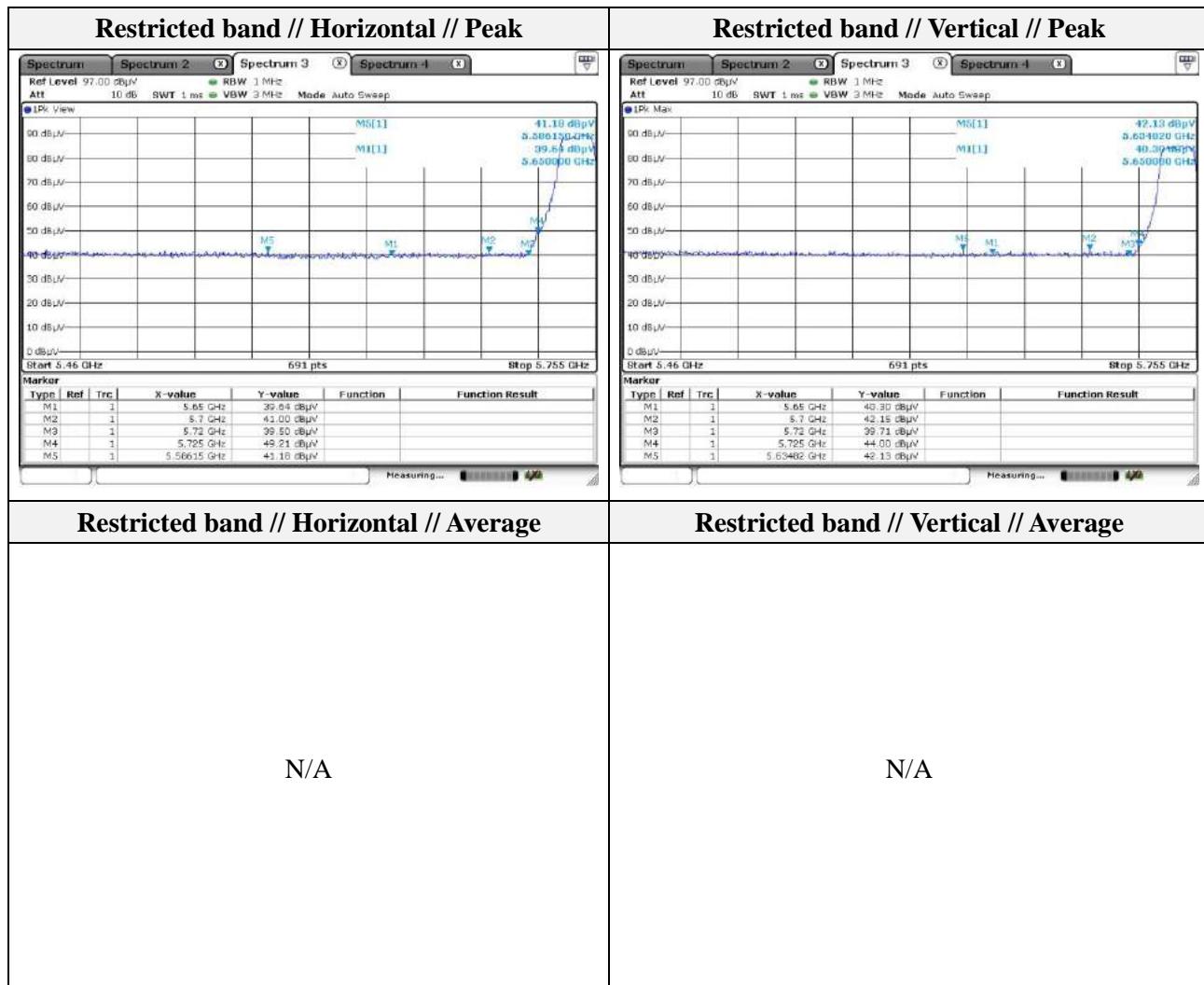
1. No spurious emission were detected above 6 GHz.

Mode: UNII-3(HT20)

Distance of measurement: 3 meter

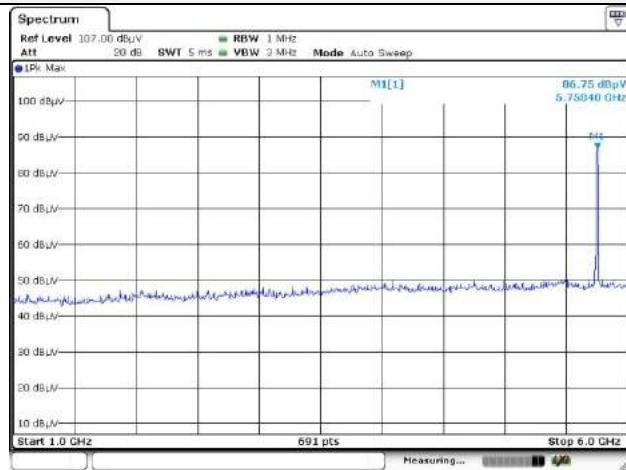
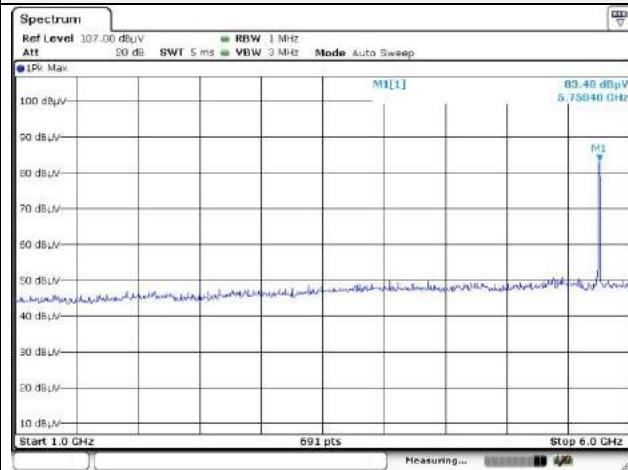
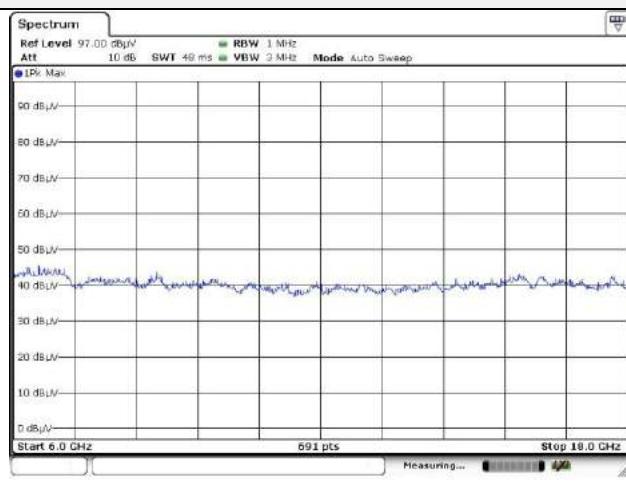
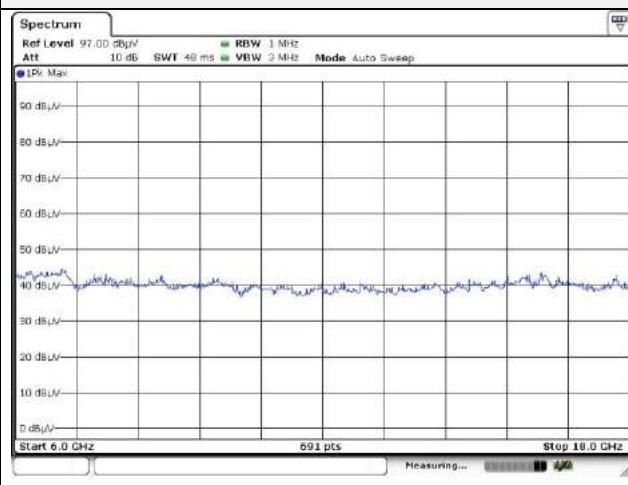
Channel: 149

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)
5725.00	49.21	Peak	H	-2.49	-	46.72	122.20	75.48
5586.15	41.18	Peak	H	-3.02	-	38.16	68.20	30.04
5725.00	44.00	Peak	V	-2.49	-	41.51	122.20	80.69
5634.82	42.13	Peak	V	-2.82	-	39.31	68.20	28.89



Note.

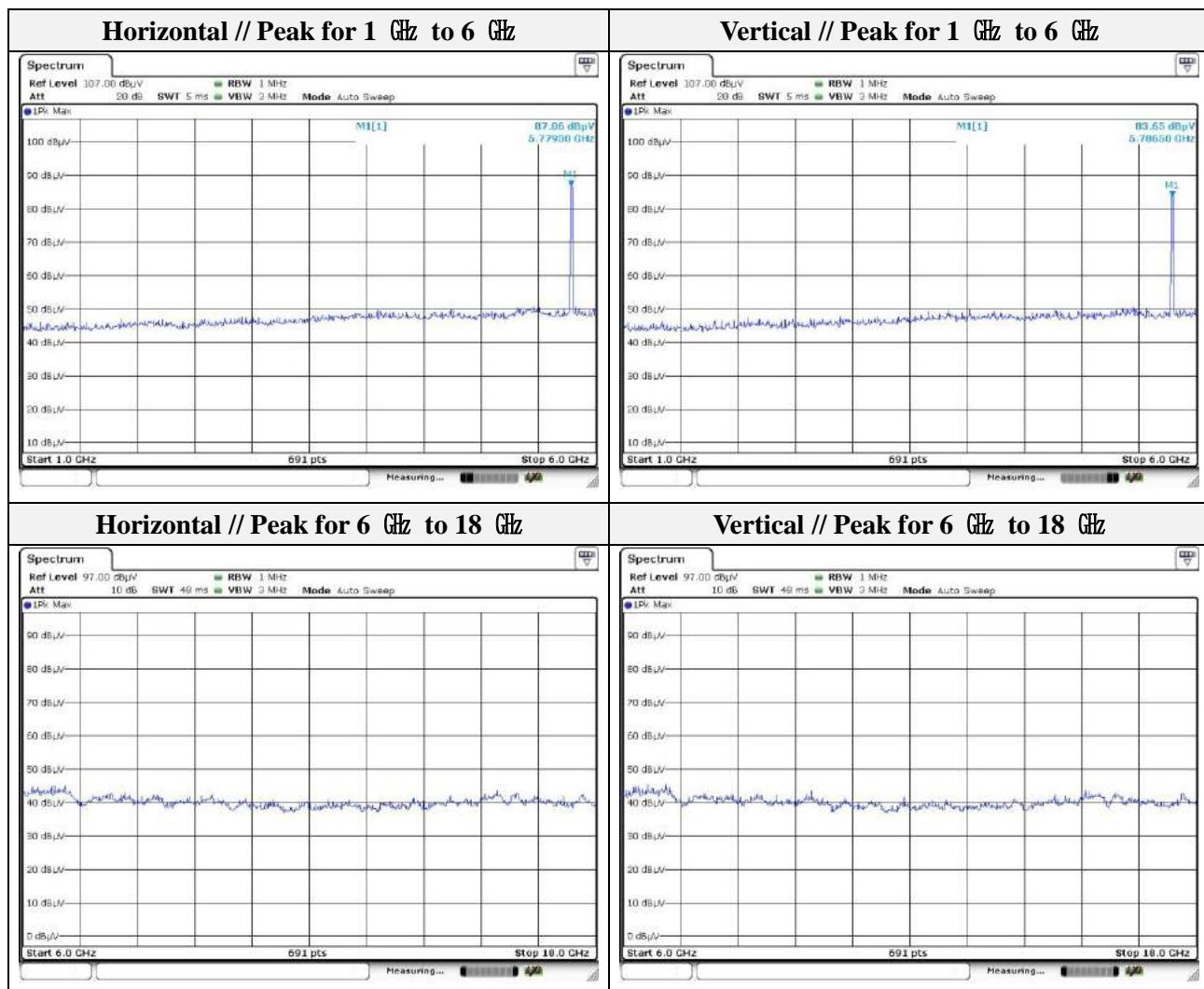
1. Average test was not performed because peak result is lower than the average limit.

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


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Mode: UNII-3(HT20)
 Distance of measurement: 3 meter
 Channel: 157

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)
No spurious emission were detected above 6 GHz.								



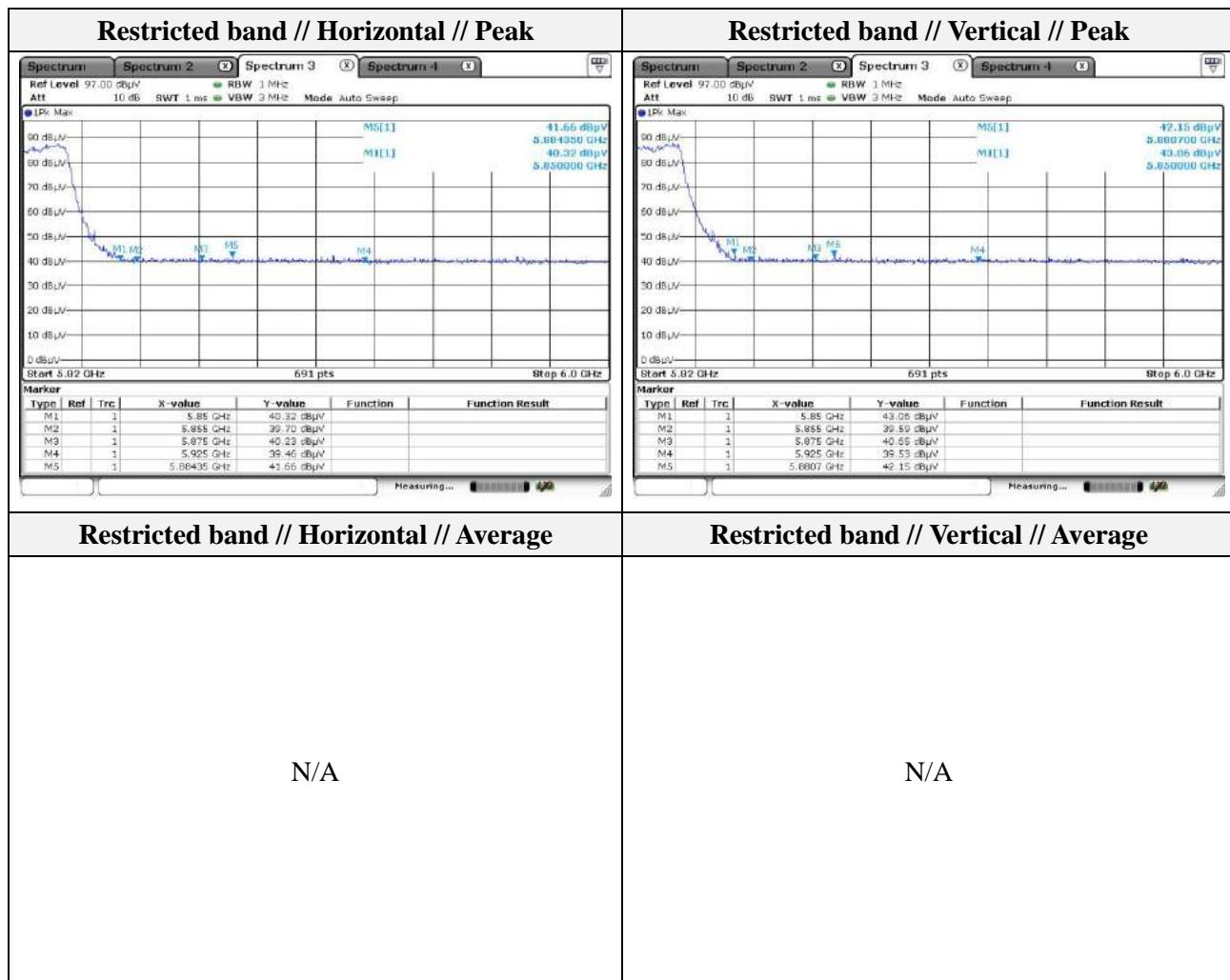
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Mode: UNII-3(HT20)

Distance of measurement: 3 meter

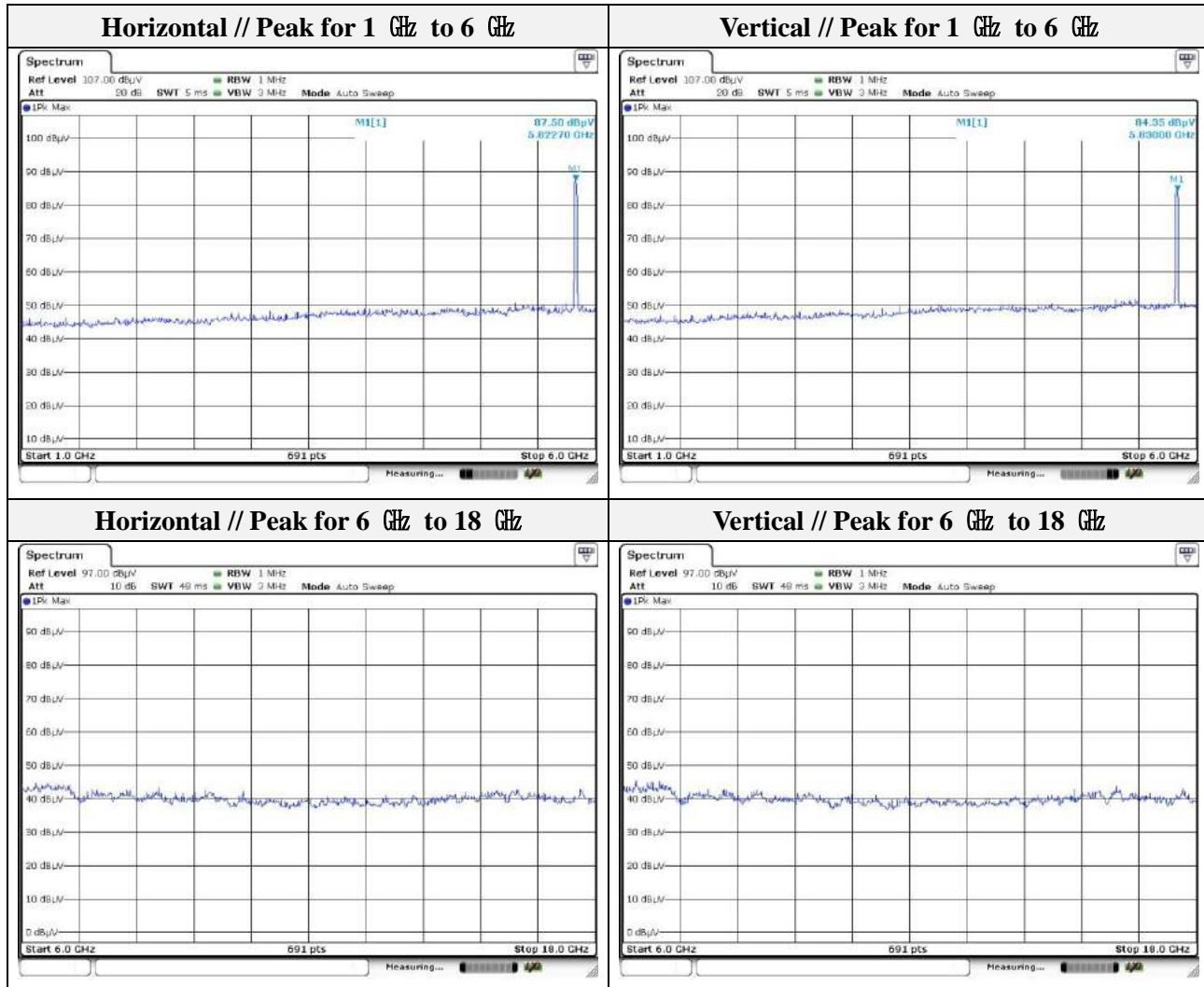
Channel: 165

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5850.00	40.32	Peak	H	-2.07	-	38.25	122.20	83.95
5884.35	41.66	Peak	H	-1.97	-	39.69	97.51	57.82
5925.00	39.46	Peak	H	-1.85	-	37.61	68.20	30.59
5850.00	43.06	Peak	V	-2.07	-	40.99	122.20	81.21
5880.70	42.15	Peak	V	-1.98	-	40.17	100.51	60.34
5925.00	39.53	Peak	V	-1.85	-	37.68	68.20	30.52



Note.

1. Average test was not performed because peak result is lower than the average limit.



Note.

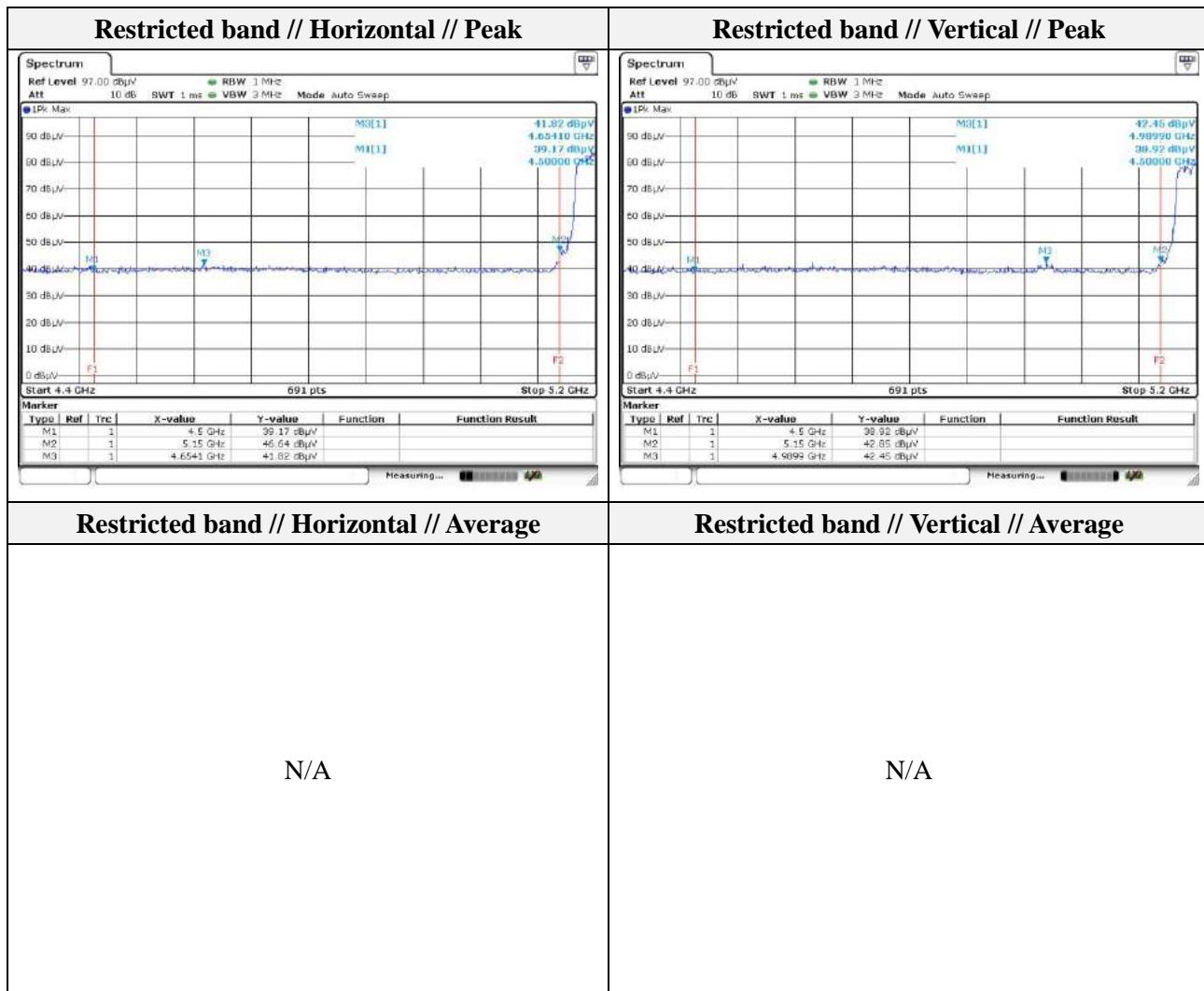
1. No spurious emission were detected above 6 GHz.

Mode: UNII-1(HT40)

Distance of measurement: 3 meter

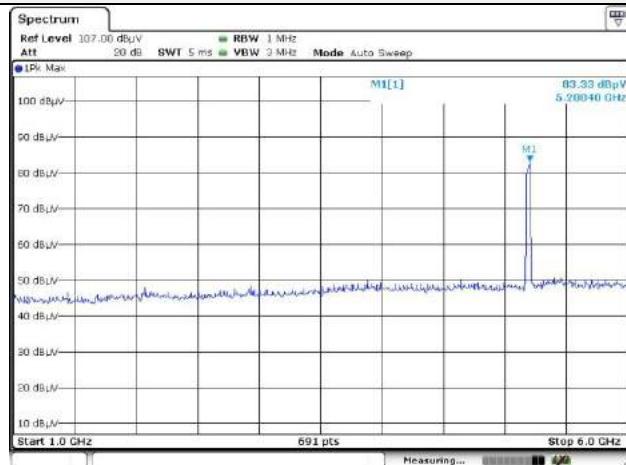
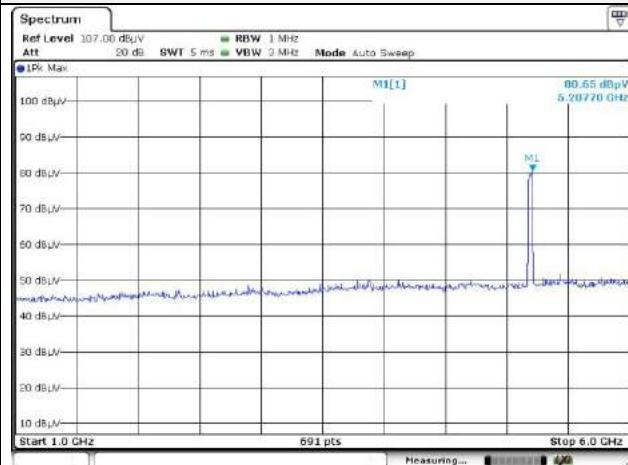
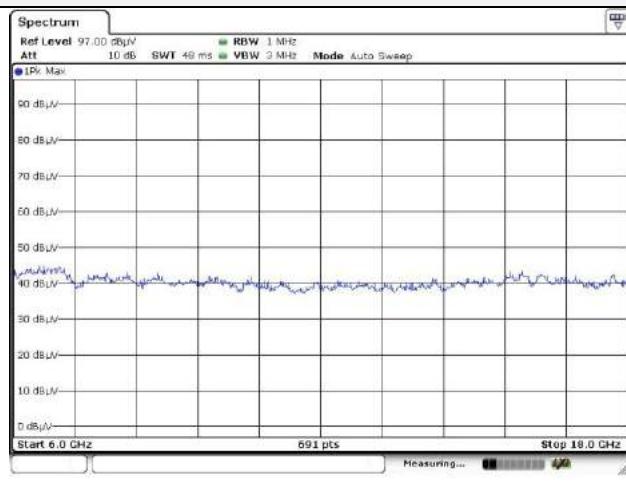
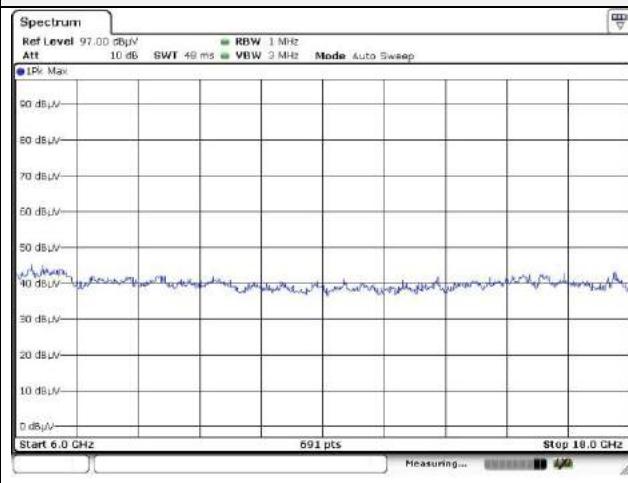
Channel: 38

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5150.00	46.64	Peak	H	-3.42	-	43.22	74.00	30.78
5150.00	42.45	Peak	V	-3.42	-	39.03	74.00	34.97



Note.

1. Average test was not performed because peak result is lower than the average limit.

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


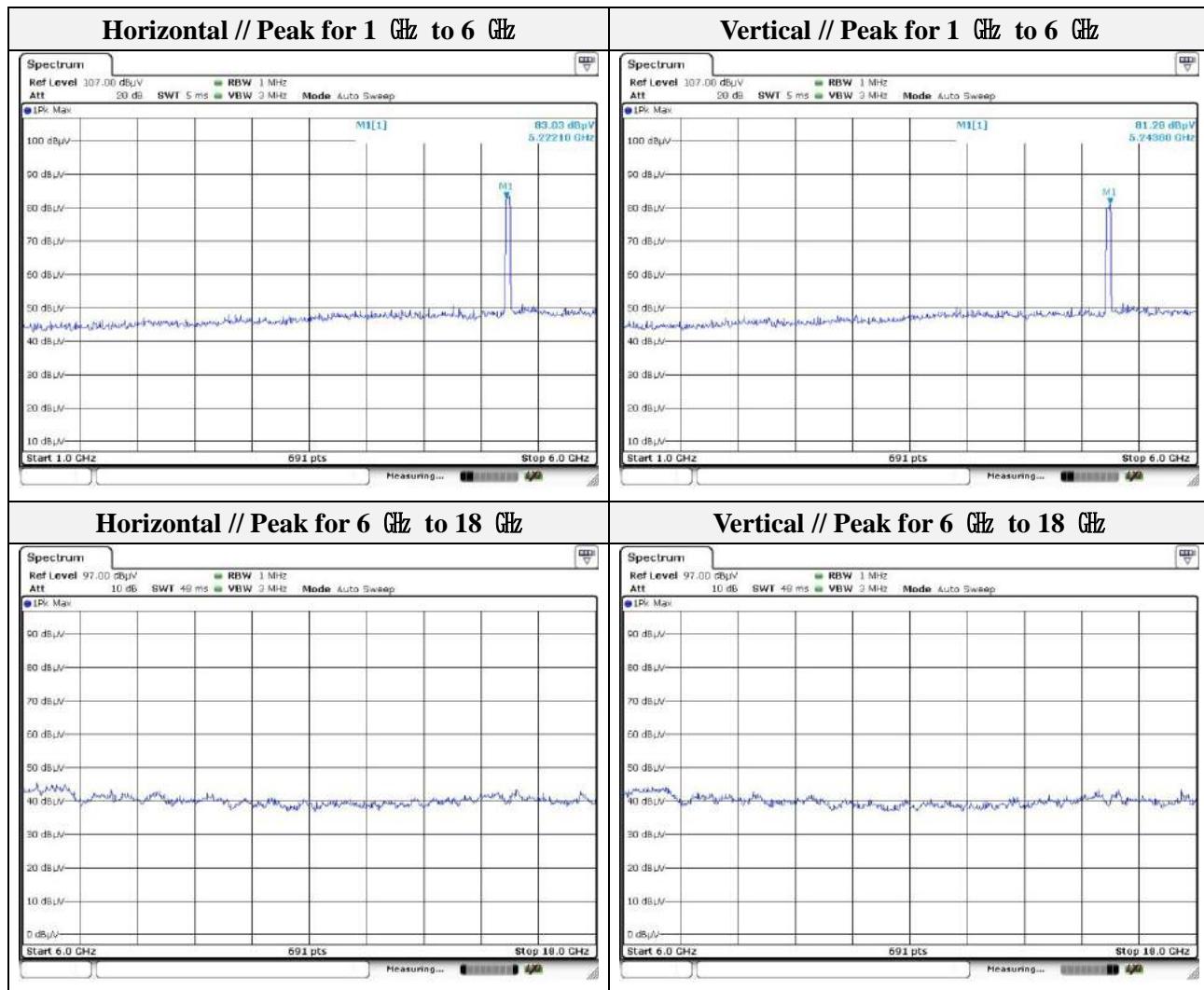
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Mode: UNII-1(HT40)

Distance of measurement: 3 meter

Channel: 46

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



Note.

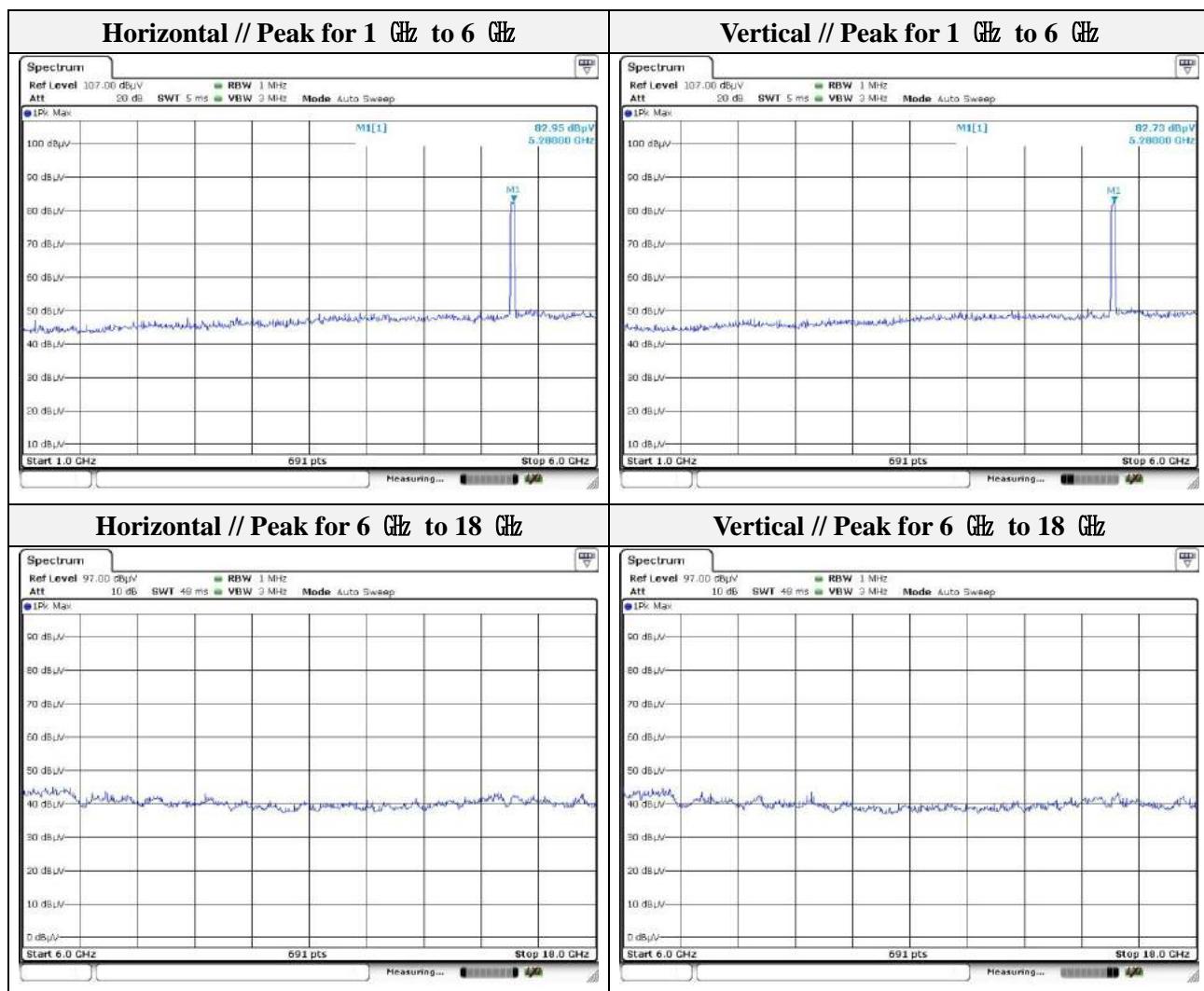
1. No spurious emission were detected above 6 GHz.

Mode: UNII-2A(HT40)

Distance of measurement: 3 meter

Channel: 54

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



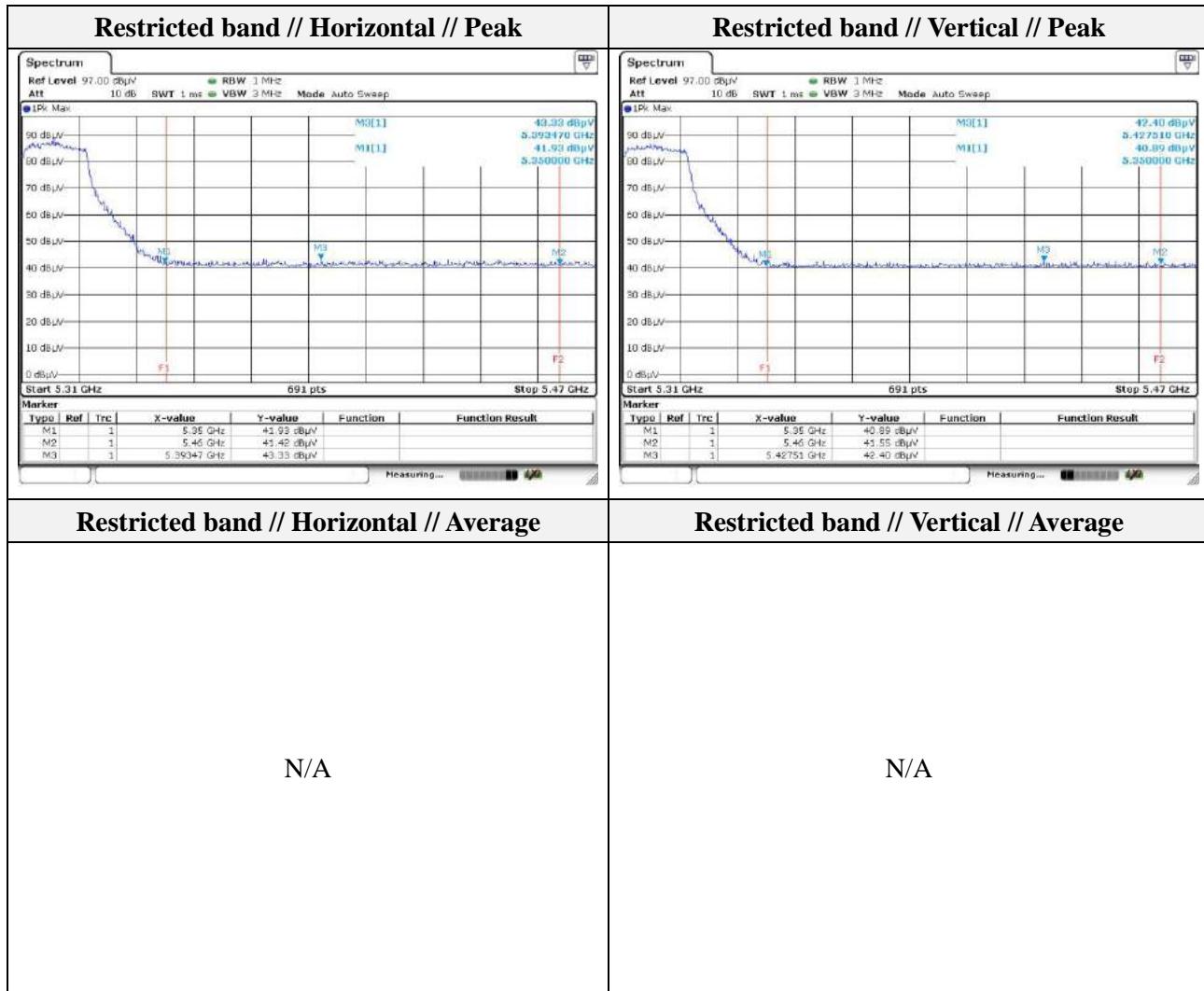
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Mode: **UNII-2A(HT40)**

Distance of measurement: **3 meter**

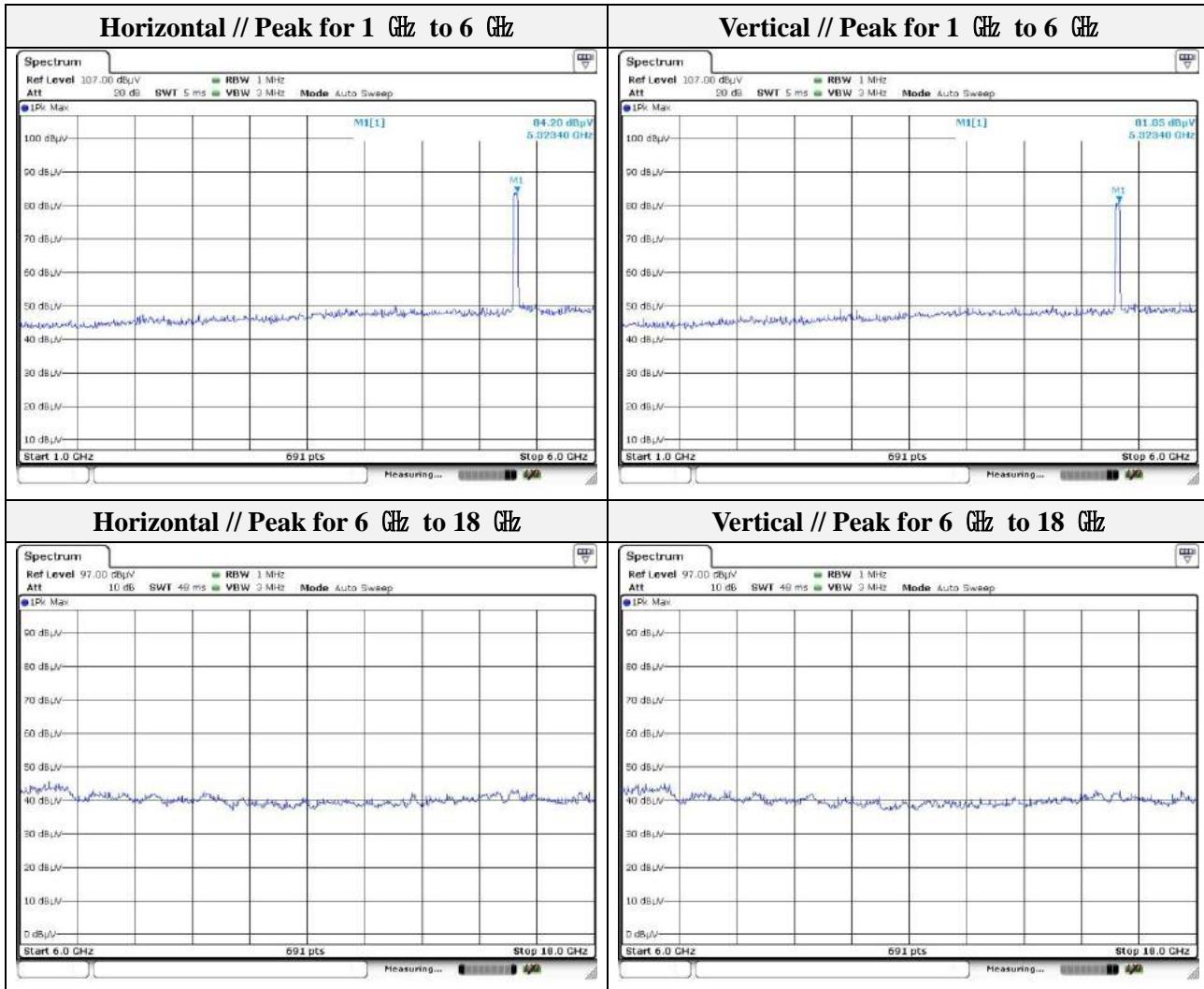
Channel: **62**

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)
5393.47	43.33	Peak	H	-3.62	-	39.71	74.00	34.29
5427.51	42.40	Peak	V	-3.59	-	38.81	74.00	35.19



Note.

1. Average test was not performed because peak result is lower than the average limit.



Note.

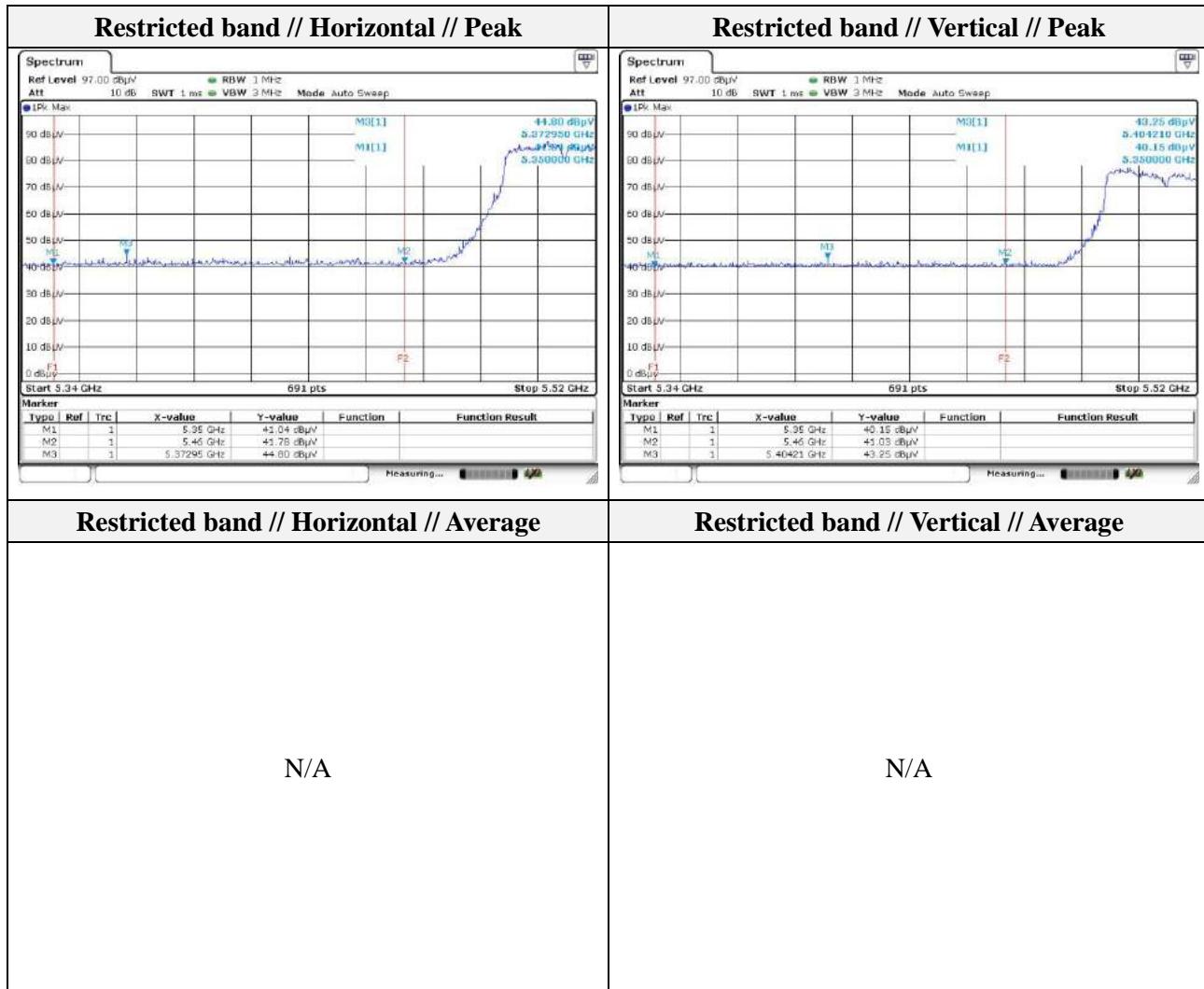
1. No spurious emission were detected above 6 GHz.

Mode: UNII-2C(HT40)

Distance of measurement: 3 meter

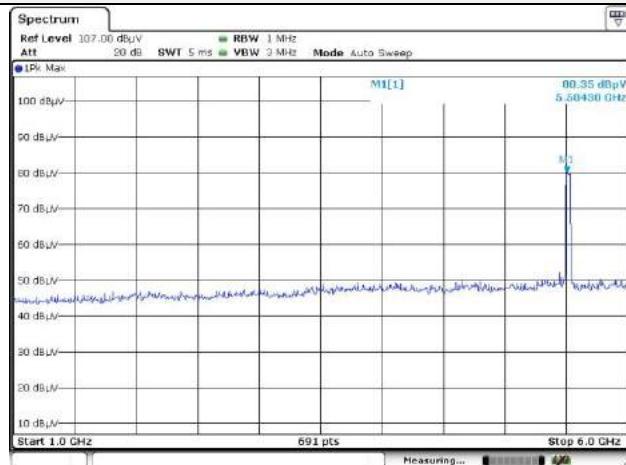
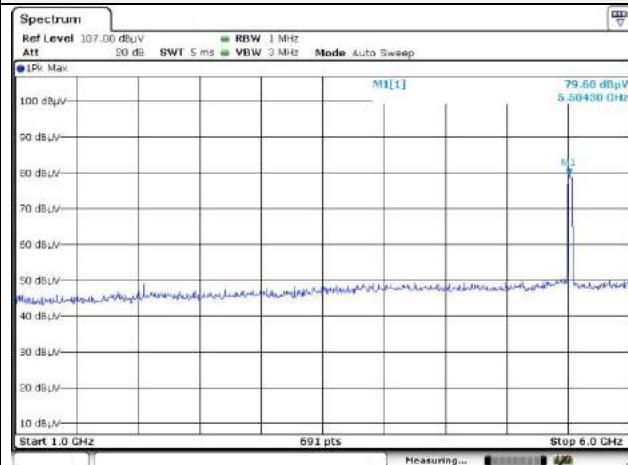
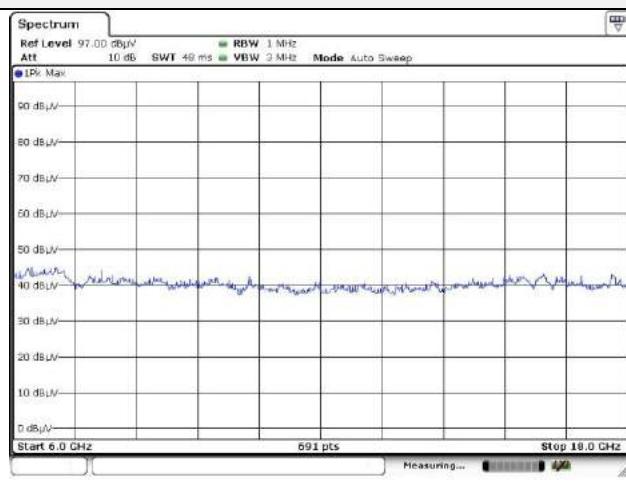
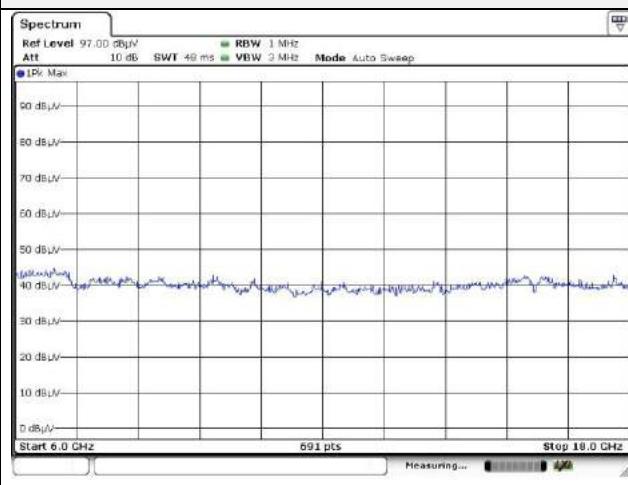
Channel: 102

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5372.95	44.80	Peak	H	-3.60	-	41.20	74.00	32.80
5404.21	43.25	Peak	V	-3.62	-	39.63	74.00	34.37



Note.

1. Average test was not performed because peak result is lower than the average limit.

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


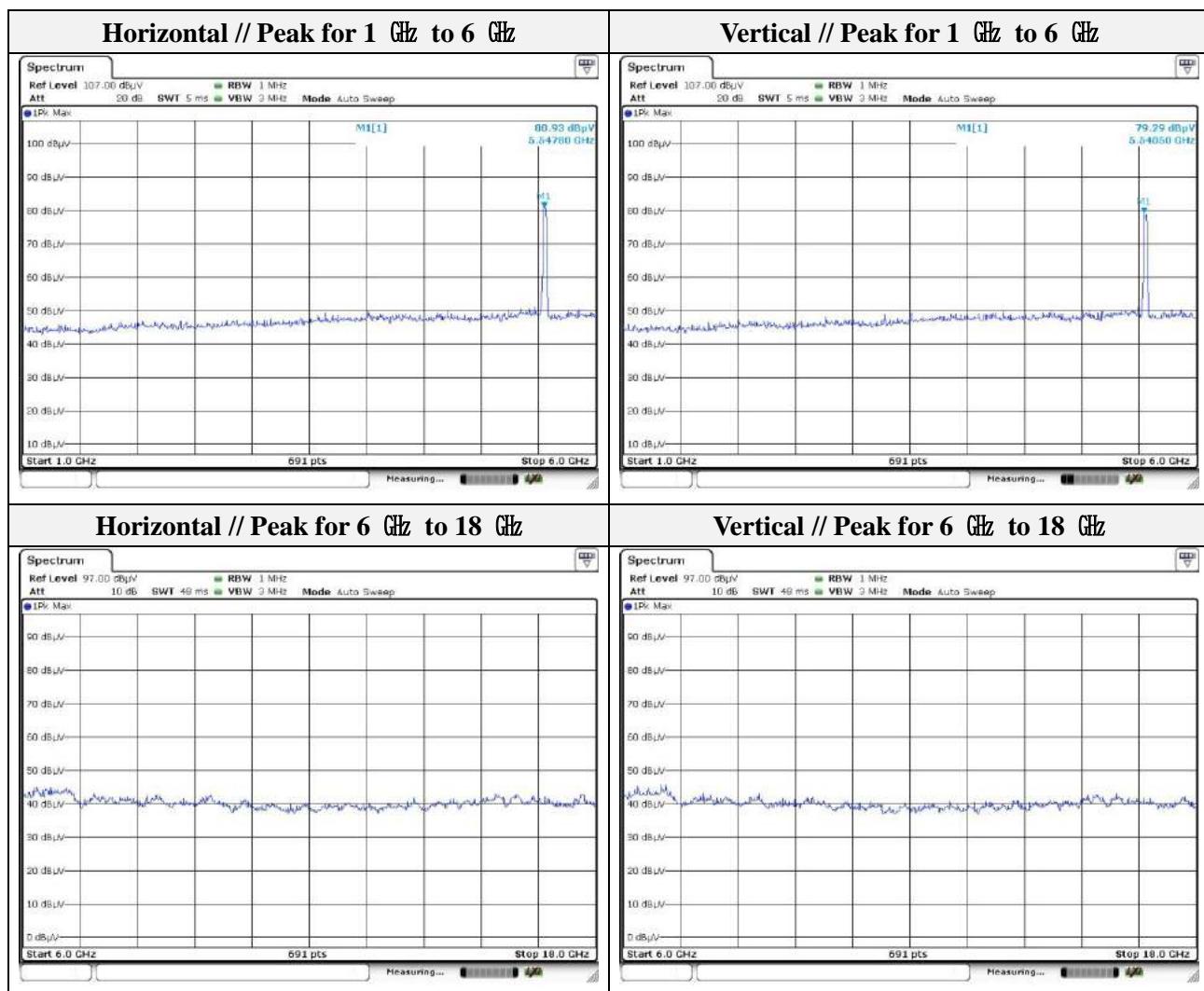
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Mode: UNII-2C(HT40)

Distance of measurement: 3 meter

Channel: 110

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
No spurious emission were detected above 6 GHz.								



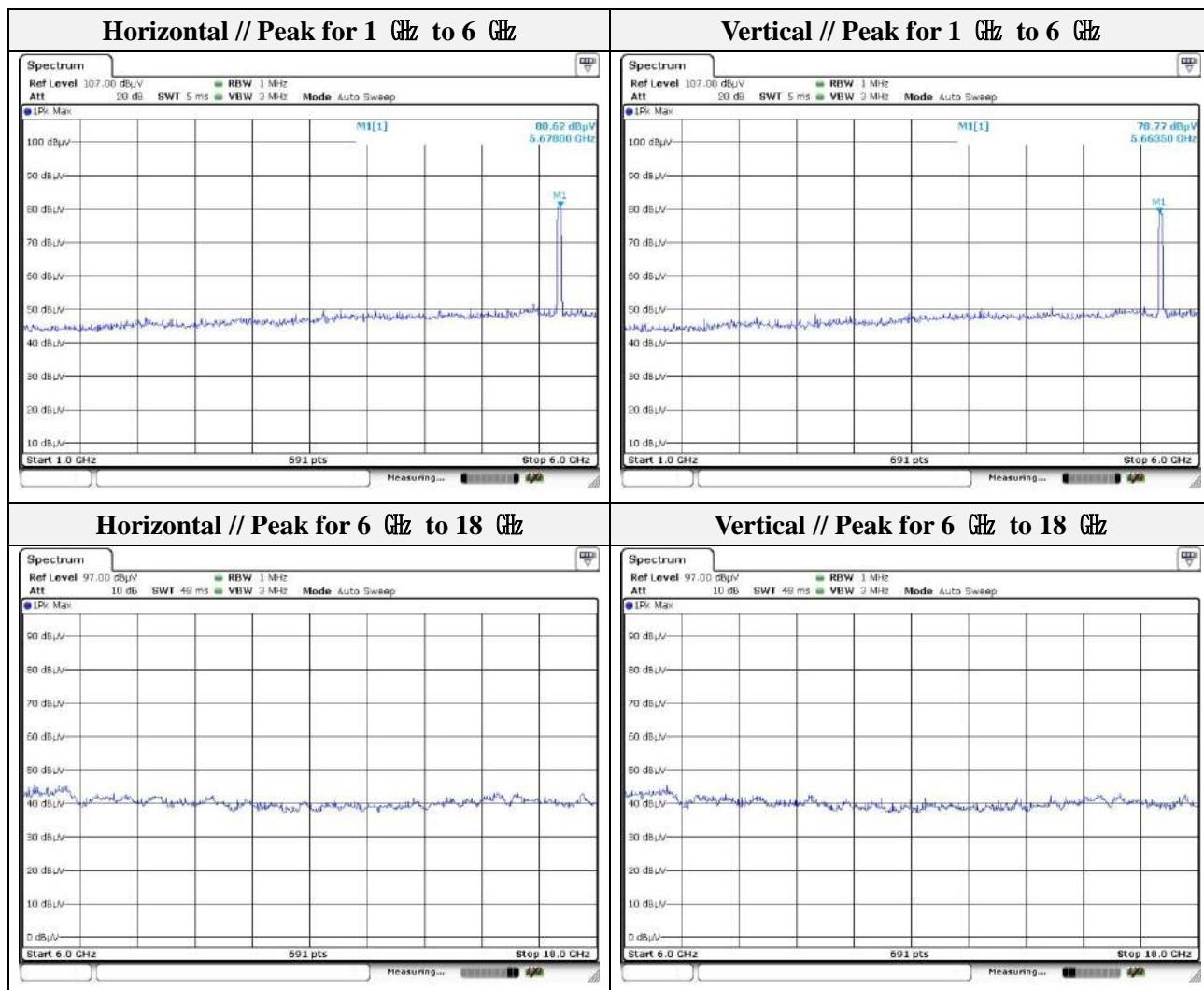
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Mode: UNII-2C(HT40)

Distance of measurement: 3 meter

Channel: 134

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)
No spurious emission were detected above 6 GHz.								



Note.

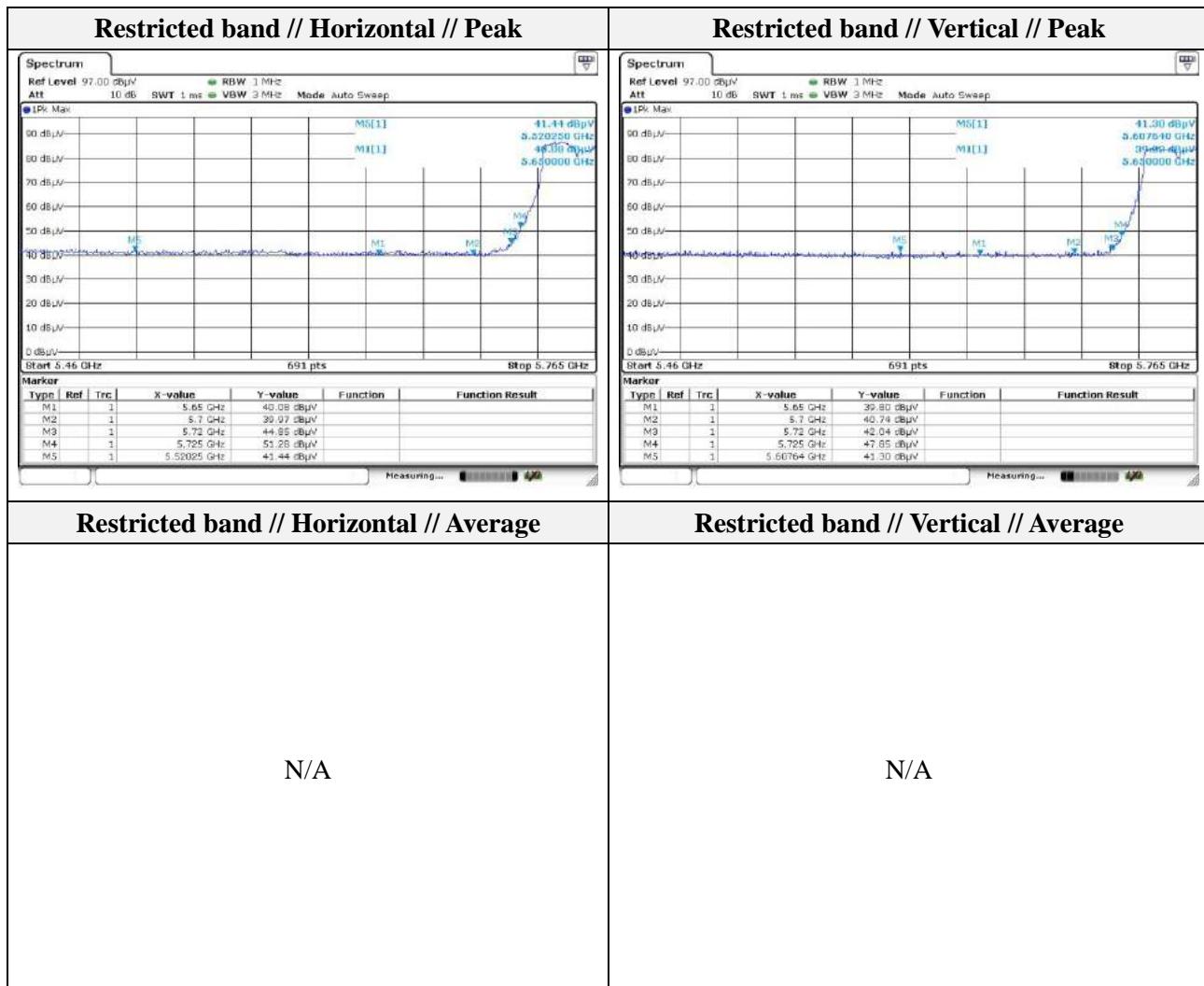
1. No spurious emission were detected above 6 GHz.

Mode: UNII-3(HT40)

Distance of measurement: 3 meter

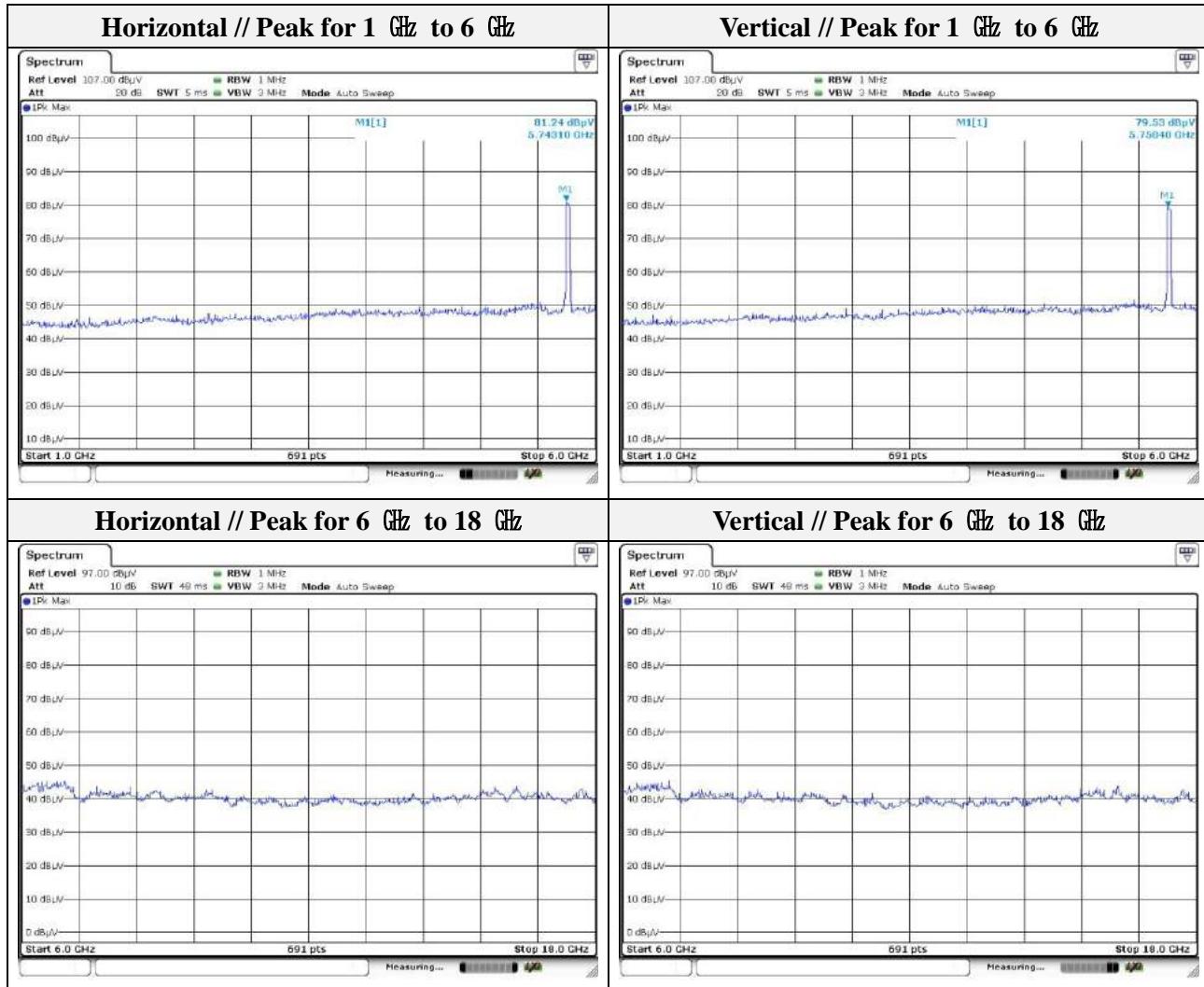
Channel: 151

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5725.00	51.28	Peak	H	-2.49	-	48.79	122.20	73.41
5520.25	41.44	Peak	H	-3.38	-	38.06	68.20	30.14
5725.00	47.85	Peak	V	-2.49	-	45.36	122.20	76.84
5607.64	41.30	Peak	V	-2.92	-	38.38	68.20	29.82



Note.

1. Average test was not performed because peak result is lower than the average limit.



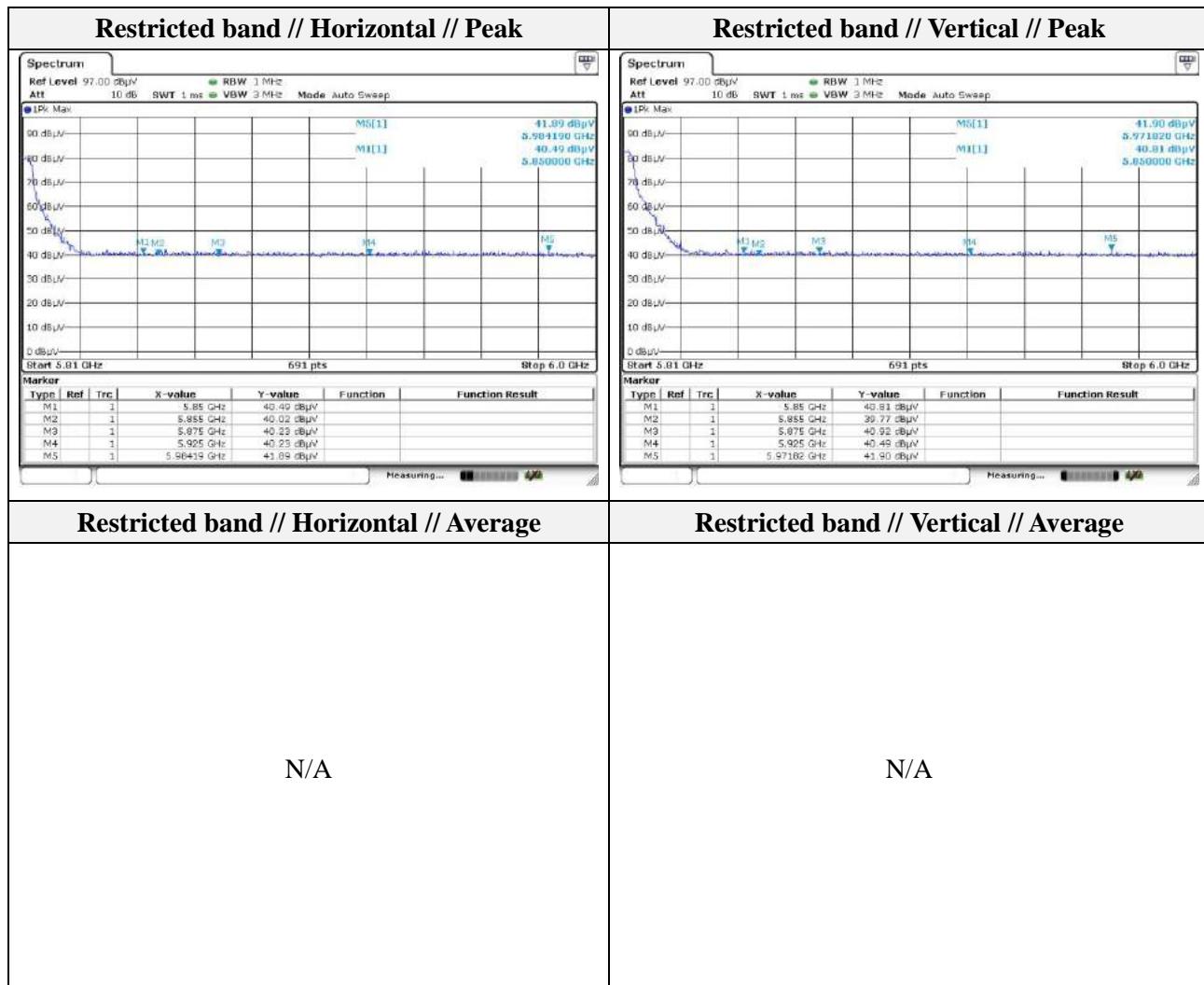
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Mode: UNII-3(HT40)

Distance of measurement: 3 meter

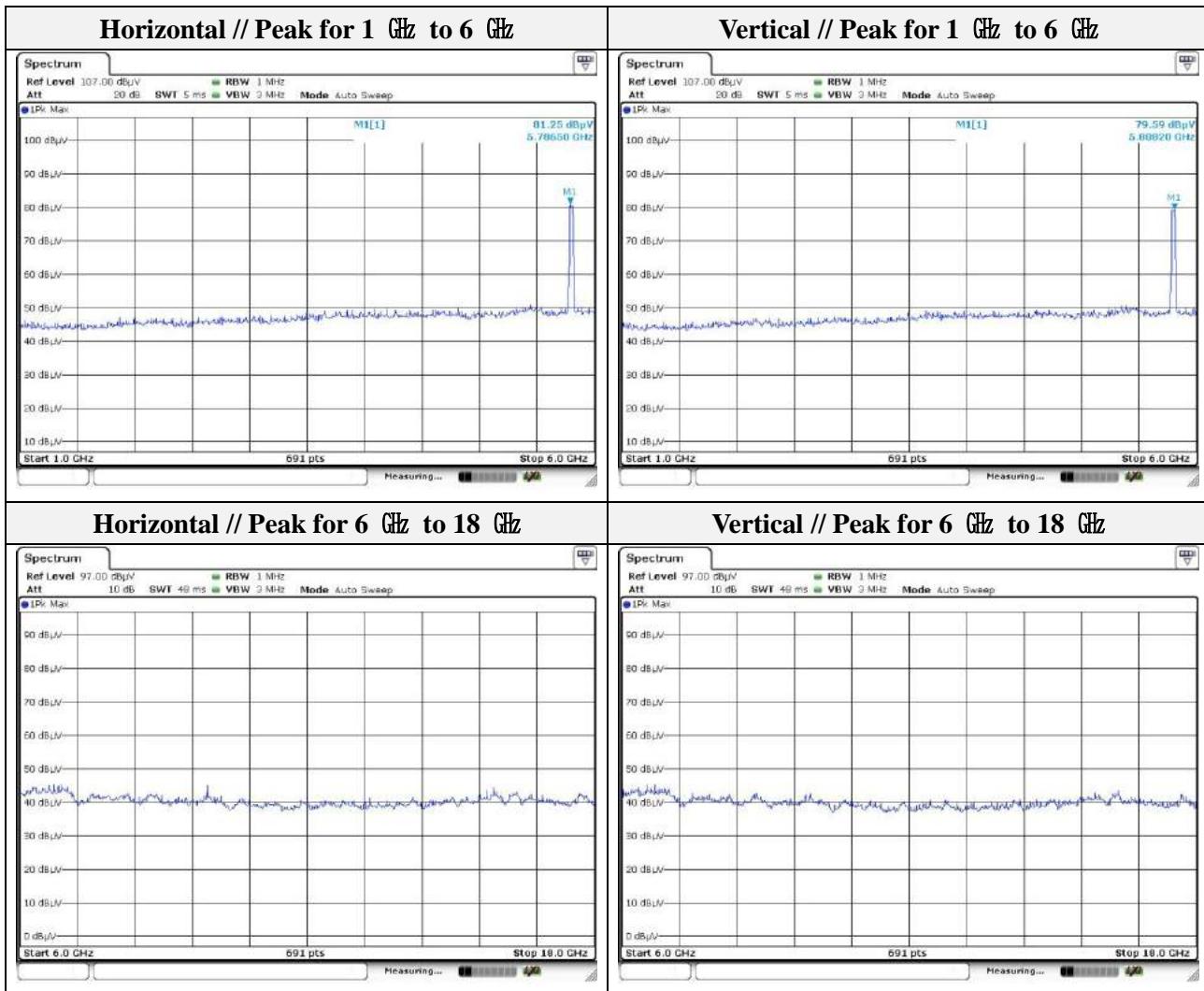
Channel: 159

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ N/m)	Limit (dB μ N/m)	Margin (dB)
5850.00	40.49	Peak	H	-2.07	-	38.42	122.20	83.78
5984.19	41.89	Peak	H	-1.68	-	40.21	68.20	27.99
5850.00	40.81	Peak	V	-2.07	-	38.74	122.20	83.46
5971.82	41.90	Peak	V	-1.71	-	40.19	68.20	28.01



Note.

1. Average test was not performed because peak result is lower than the average limit.

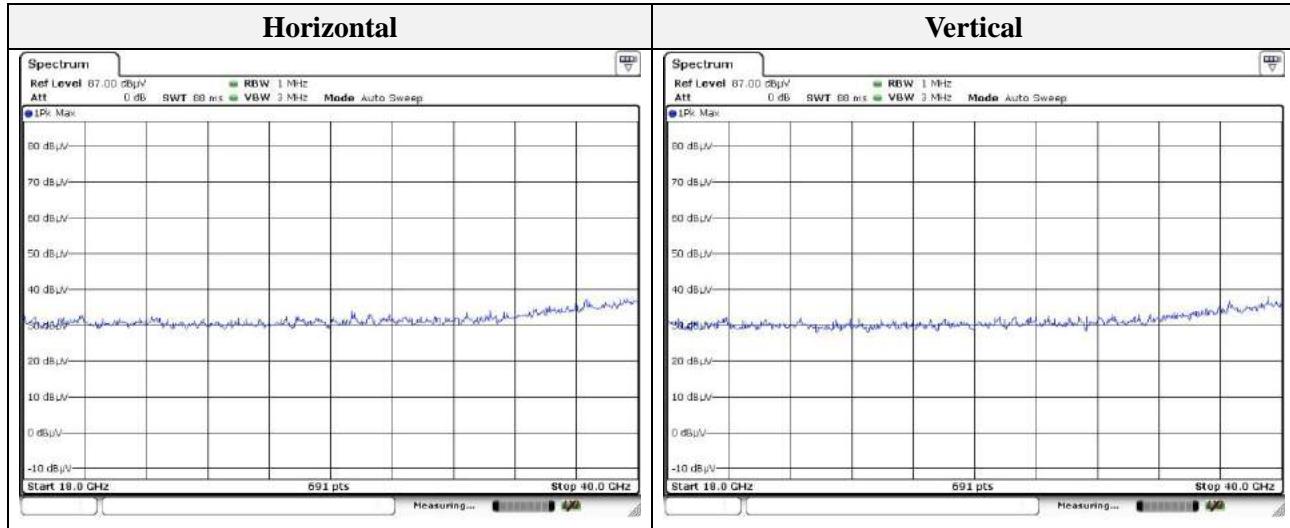


Note.

1. No spurious emission were detected above 6 GHz.

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

Mode: UNII-2C(MIMO)
 Distance of measurement: 3 meter
 Channel: 1



Note.

1. No spurious emission were detected above 18 GHz.

3.4. AC conducted emissions

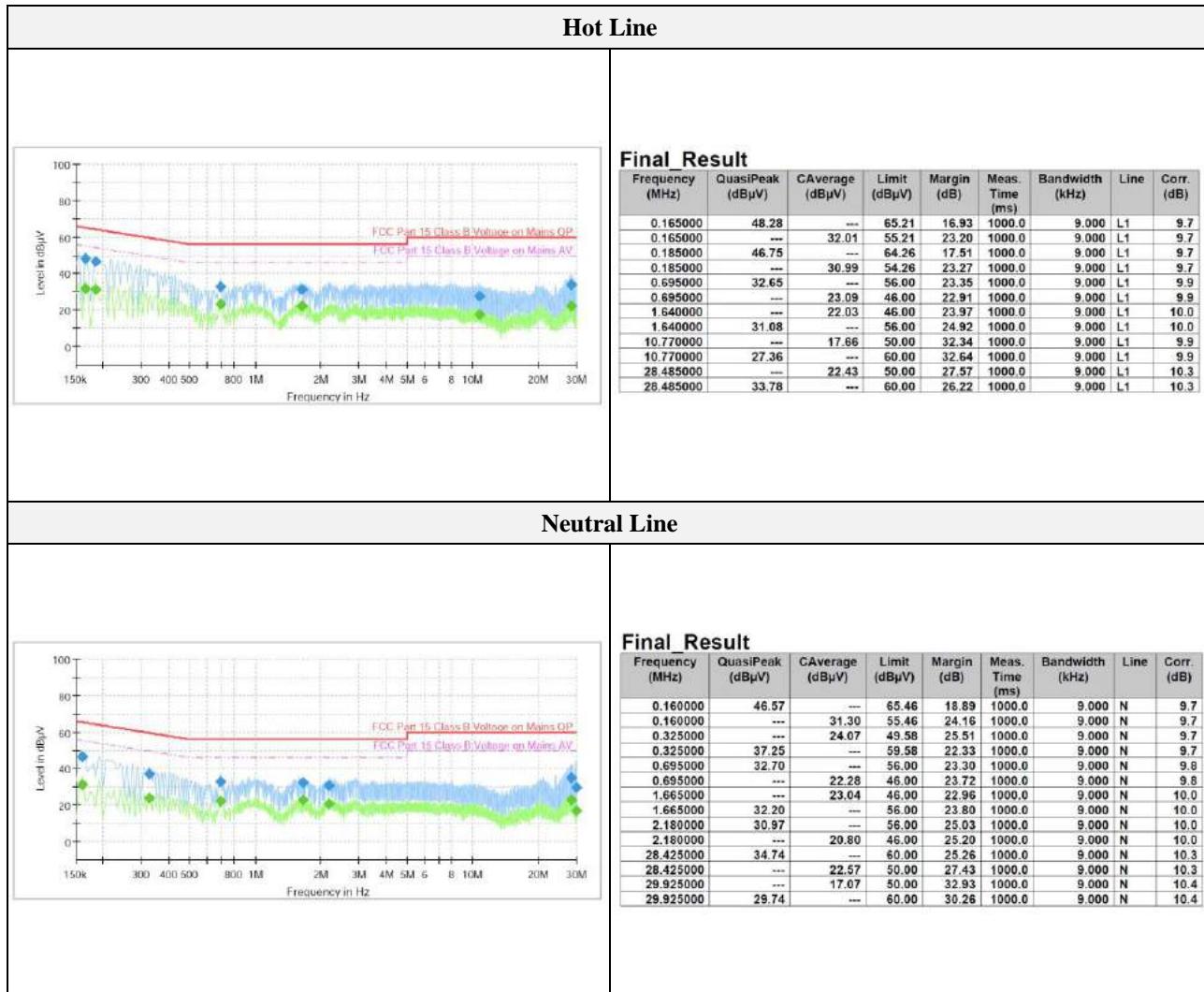
Limit

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 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/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.
3. Both Cable loss and LISN factor are included in measurement level(QP Level or AV Level).

Test results


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www.kes.co.kr

Test report No.:
KES-RF-16T0114-R2
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Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum Analyzer	R&S	FSV40	101002	1 year	2016.07.25
					2017.07.06
Spectrum Analyzer	R&S	FSV30	100736	1 year	2016.07.25
					2017.07.06
8360B Series Swept Signal Generator	HP	83630B	3844A00786	1 year	2017.01.25
PSG Analog Signal Generator	AGILENT	E8257C	US42340237	1 year	2017.07.05
Power Meter	Anritsu	ML2495A	1438001	1 year	2017.01.25
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	2017.01.25
Loop Antenna	R&S	HFH2-Z2.335.4711.52	826532	2 years	2017.03.03
Trilog-broadband antenna	SCHWARZBECK	VULB 9163	9168-713	2 years	2017.05.15
Horn Antenna	A.H.	SAS-571	781	2 years	2017.05.07
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170550	2 years	2017.04.30
High Pass Filter	WAINWRIGHT INSTRUMENT	WHJS3000-10TT	1	1 year	2016.07.24
					2017.07.04
High Pass Filter	WAINWRIGHT INSTRUMENT	WHKX6.0/26.5G-6SS	1	1 year	2016.07.24
					2017.07.05
Low Pass Filter	WEINSCHEL	WLK1.0/18G-10TT	1	1 year	2016.07.24
Attenuator	KEYSIGHT	8493C	82509	1 year	2017.01.25
Preamplifier	SCHWARZBECK	BBV-9718	9718-246	1 year	2016.10.23
					2017.10.14
Broadband Amplifier	SCHWARZBECK	BBV-9721	PS9721-003	1 year	2017.01.25
EMI Test Receiver	R&S	ESR3	101781	1 year	2017.05.03
EMI Test Receiver	R&S	ESU26	100552	1 year	2017.04.24
EMI Test Receiver	R&S	ESR3	101783	1 year	2017.05.03
LISN	R&S	ENV216	101137	1 year	2017.02.04

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook Computer	Samsung Electronics Co., Ltd.	NT-R530	ZWC493BZC00014H
Test Board	N/A	N/A	N/A
AC Adapter	SOLU M	SLU10	H37H3XPGK01SE3
Speaker	Britz	BR-1000A	N/A

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