Report on the RF Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1084
FCC ID: JOYEB1084

In accordance with FCC Part15 Subpart E

Japan

Add value.
Inspire trust.

Prepared for: KYOCERA Corporation
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COMMERCIAL-IN-CONFIDENCE

Document Number: JPD-TR-21221-0

SIGNATURE			
Hiroaki Suzuki			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2021.11.10

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Japan Ltd. document control rules.

EXECUTIVE SUMMARY – Result: Complied
A sample of this product was tested and the result above was confirmed in accordance with FCC Part15 Subpart E.

ACCREDITED
Certificate #3686.03

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Japan

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1 Summary of Test

1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-21221-0	First Issue	Refer to the cover page

1.2 Standards

CFR47 FCC Part 15 Subpart E

1.3 Test methods

ANSI C63.10-2013
KDB789033 D02 General U-NII Test Procedures New Rules v02r01

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Test item section	Test item	Condition	Result	Remark
15.407(a)	26dB Bandwidth	Conducted	N/A	*1
15.407(a)	Maximum Conducted Output Power	Conducted	N/A	*1
15.407(a)	Peak Power Spectral Density	Conducted	N/A	*1
15.407(b) 15.205 15.209	Radiated emissions (Restricted Bands of Operation)	Radiated	PASS	-
15.407(g)	Frequency Stability	Conducted	N/A	*1
15.207	AC Power Line Conducted Emissions	Conducted	PASS	-

*1 Since there is no change in Module from FCC ID: JOYEB1083, only the Radiated test items were performed. Please refer to the test report “JPD-TR-21196-0” of “FCC ID: JOYEB1083”.

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

22-October-2021 - 9-November-2021

Japan

2 Equipment Under Test

All information in this chapter was provided by the applicant.

2.1 EUT information

Applicant	KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314
Equipment Under Test (EUT)	Mobile Phone
Model number	EB1084
Serial number	359178870020360
Trade name	Kyocera
Number of sample(s)	1
EUT condition	Pre-Production
Power rating	Battery: DC 3.87 V
Size	(W) 69 mm × (D) 153 mm × (H) 10 mm
Environment	Indoor and Outdoor use
Terminal limitation	-20˚C to 60˚C
Hardware version	DMT
Software version	0039.a
Firmware version	Not applicable
RF Specification	
Protocol	IEEE802.11a, IEEE802.11n (HT20), IEEE802.11n (HT40) IEEE802.11ac (VHT20), IEEE802.11ac (VHT40), EEE802.11ac (VHT80)
Frequency range	IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 5180 MHz-5320 MHz, 5500 MHz-5720 MHz, 5745MHz-5825MHz IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 5190 MHz-5310 MHz, 5510 MHz-5710 MHz, 5755MHz, 5795MHz IEEE802.11ac (VHT80): 5210 MHz, 5290 MHz, 5530 MHz, 5610 MHz, 5690MHz, 5775MHz
Number of RF Channels	IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 25 Channels IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 12 Channels IEEE802.11ac (VHT80): 6 Channels
Modulation type	IEEE802.11a/n/ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

Data rate	IEEE802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE802.11n (HT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps IEEE802.11n (HT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7, 96.1Mbps IEEE802.11ac (VHT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps IEEE802.11ac (VHT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.6, 96.1Mbps IEEE802.11n (HT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps IEEE802.11n (HT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps IEEE802.11ac (VHT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps IEEE802.11ac (VHT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps IEEE802.11ac (VHT80 LGI): 29.5, 58.5, 87.8, 117, 175.5, 234, 263.3, 292.5, 351, 390Mbps IEEE802.11ac (VHT80 SGI): 32.5, 65, 97.5, 130, 195, 260, 292.5, 325, 390, 433.3Mbps
Channel separation	IEEE802.11a/n(HT20) / IEEE802.11ac (VHT20): 20 MHz IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 40 MHz IEEE802.11ac (VHT80): 80 MHz
Conducted power	14.786 mW (IEEE802.11a) 14.833 mW (IEEE802.11n: HT20) 16.887 mW (IEEE802.11n: HT40) 16.884 mW (IEEE802.11ac: VHT80)
Antenna type	Internal antenna
Antenna gain	5.15-5.25 GHz band: -2.5 dBi 5.25-5.35 GHz band: 0 dBi 5.47-5.725 GHz band: 1.4 dBi 5.745-5.825 GHz band: 1.5 dBi

2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

Modification State	Description of Modification	Modification fitted by	Date of Modification
Model: EB1084, Serial Number: 359178870020360			
0	As supplied by the applicant	Not Applicable	Not Applicable

2.3 Variation of family model(s)

2.3.1 List of family model(s)

Not applicable

2.3.2 Reason for selection of EUT

Not applicable

Japan

2.4 Operating channels and frequencies

[IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20)]

Channel	Frequency [MHz]
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720
149	5745
157	5785
165	5825

[IEEE802.11n (HT40) / IEEE802.11ac (VHT40)]

Channel	Frequency [MHz]
38	5190
46	5230
54	5270
62	5310
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710
151	5755
159	5795

[IEEE802.11ac (VHT80)]

Channel	Frequency [MHz]
42	5210
58	5290
106	5530
122	5610
138	5690
155	5775

Japan

2.5 Description of test mode

The EUT had been tested under operating condition.
There are three channels have been tested as following:

Band	IEEE802.11a/n (HT20) IEEE802.11ac (VHT20)		IEEE802.11n (HT40) IEEE802.11ac (VHT40)		IEEE802.11ac (HT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
5.2 GHz Band	36	5180	38	5190	42	5210
	40	5200	-	-	-	-
	48	5240	46	5230	-	-
5.3 GHz Band	52	5260	54	5270	58	5290
	56	5280	-	-	-	-
	64	5320	62	5310	-	-
5.6 GHz Band	100	5500	102	5510	106	5530
	116	5580	110	5550	122	5610
	140	5700	134	5670	138	5690
	144	5720	142	5690	-	-
5.8 GHz Band	149	5745	151	5755	155	5775
	157	5785	-	-	-	-
	165	5825	159	5795	-	-

The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

Band	Modulation Type	Data Rate
5.2 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.3 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.6 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.8 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.
The worst emission was found in X axis and the worst case recorded.
Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.

Japan

2.6 Operating flow

- Tx mode

i) Test program setup to the DM tool
ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band and 5.8GHz Band
iii) Start test mode

- Rx mode

i) Test program setup to the DM tool
ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band and 5.8GHz Band
iii) Start test mode

Japan

3 Configuration of Equipment

Numbers assigned to equipment on the diagram in “3.3 System configuration” correspond to the lists in “3.1 Equipment used” and “3.2 Cable(s) used”.
Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

3.1 Equipment used

No.	Equipment	Company	Model No.	Serial No.	FCC ID / DoC	Comment
1	Mobile Phone	KYOCERA	EB1084	359178870020360	JOYEB1084	EUT
2	AC Adapter	KDDI	0602PQA	N/A	N/A	*

*: AC power line Conducted Emission Test.

3.2 Cable(s) used

No.	Cable	Length[m]	Shield	Connector	Comment
a	USB cable (for AC Adapter)	1.5	No	Plastic	*

*: AC power line Conducted Emission Test.

3.3 System configuration

4 Test Result

4.1 Radiated Emissions (Restricted Bands of Operation)

4.1.1 Measurement procedure

[FCC 15.407(b), 15.205, 15.209, KDB 789033 D02, Section G.4, 5, 6.c)Method AD]

Test was applied by following conditions.

Test method	:	ANSI C63.10
Frequency range	:	9 kHz to 40 GHz
Test place	:	3m Semi-anechoic chamber
EUT was placed on	:	Styrofoam table / (W) 1.0 × (D) 1.0 ×(H) 0.8 m (below 1 GHz) Styrofoam table / (W) 0.6 × (D) 0.6 ×(H) 1.5 m (above 1 GHz)
Antenna distance	:	3m
Test receiver setting		Below 1 GHz
- Detector	:	Quasi-peak
- Bandwidth	:	120 kHz
Spectrum analyzer setting		Above 1 GHz
- Peak	:	RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=Peak Trace mode=Max hold
- Average	:	RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=RMS Trace mode=Averaging(300 counts)

Radiated emission measurements are performed at 3m distance with the broadband antenna (Loop antenna, Biconical antenna, Log periodic antenna, Double ridged guide antenna and Bload-band horn Antenna). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1m to 4m and stopped at height producing the maximum emission. As for the Loop antenna, it is positioned with its plane vertical, and the center of the Loop antenna is 1m above the ground plane.

The EUT is Placed on a turntable, which is 0.8m (below 1 GHz) and 1.5m (above 1 GHz) above ground plane. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. The test results represent the worst case emission for each emission with manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation. Sufficient time for the EUT, support equipment, and test equipment are allowed in order for them to warm up to their normal operating condition.

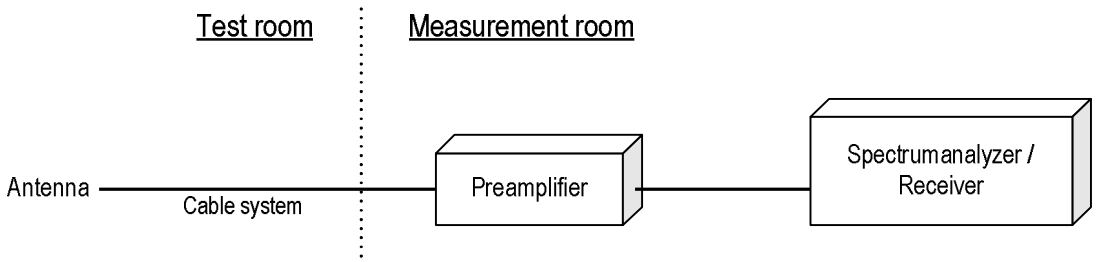
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band and 5.8GHz Band

The test mode of EUT is as follows.

- Tx mode, Rx mode

- Test configuration



Duty cycle result

Mode	Band	On Time(ms)	On+Off Time(ms)	Duty Cycle (%)	DCF (dB)
802.11a	W52	1.344	1.382	97.25	0.121
	W53	1.340	1.380	97.10	0.128
	W56	1.344	1.382	97.25	0.121
	W58	1.344	1.378	97.53	0.108
802.11n (20MHz)	W52	1.258	1.298	96.92	0.136
	W53	1.260	1.298	97.07	0.129
	W56	1.258	1.294	97.22	0.123
	W58	1.260	1.296	97.22	0.122
802.11n (40MHz)	W52	0.628	0.664	94.58	0.242
	W53	0.628	0.666	94.29	0.255
	W56	0.627	0.664	94.43	0.249
	W58	0.627	0.665	94.29	0.256
802.11ac (80MHz)	W52	0.315	0.352	89.64	0.475
	W53	0.315	0.352	89.64	0.475
	W56	0.315	0.352	89.38	0.488
	W58	0.315	0.352	89.64	0.475

Note: DCF = 10log(1/x)

4.1.2 Calculation method

[150 kHz to 25 GHz]
Emission level = Reading + (Ant. factor + Cable system loss - Amp. Gain)
Margin = Limit - Emission level

Example:
Detector: Peak
Limit @ 5147.0 MHz: 74.0 dBuV/m (Peak Limit)
S.A Reading = 40.9 dBuV Cable system loss = 16.4 dB
Result = 40.9 + 16.4 = 57.3 dBuV/m
Margin = 74.0 - 57.3 = 16.7 dB

4.1.3 Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725GHz band: all emissions outside of the 5.47 5-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Frequency [MHz]	Field strength		Distance [m]
	[uV/m]	[dBuV/m]	
0.009-0.490	2400 / F [kHz]	20logE [uV/m]	300
0.490-1.705	24000 / F [kHz]	20logE [uV/m]	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Note:
1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = 20log Emission [uV/m]
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition modulation.

Japan

4.1.4 Test data

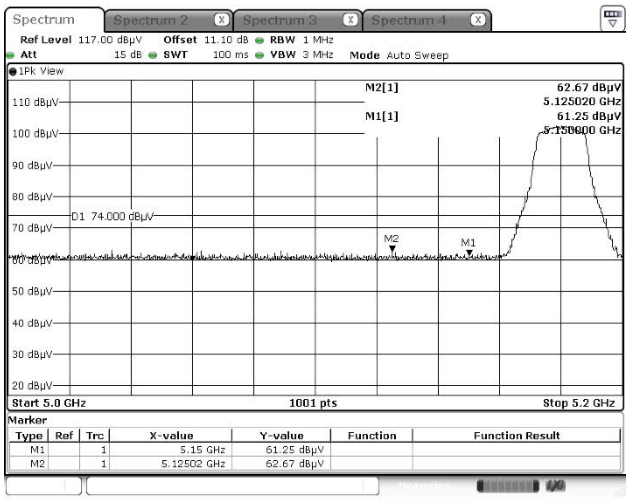
Date	:	23-October-2021			
Temperature	:	23.4 [˚C]			
Humidity	:	30.8 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Taiki Watanabe

Date	:	5- November-2021			
Temperature	:	22.9 [˚C]			
Humidity	:	36.2 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Taiki Watanabe

4.1.4.1 Restricted Bandedge

[IEEE802.11a]

5.2 GHz Band, Channel Low
Horizontal
Peak



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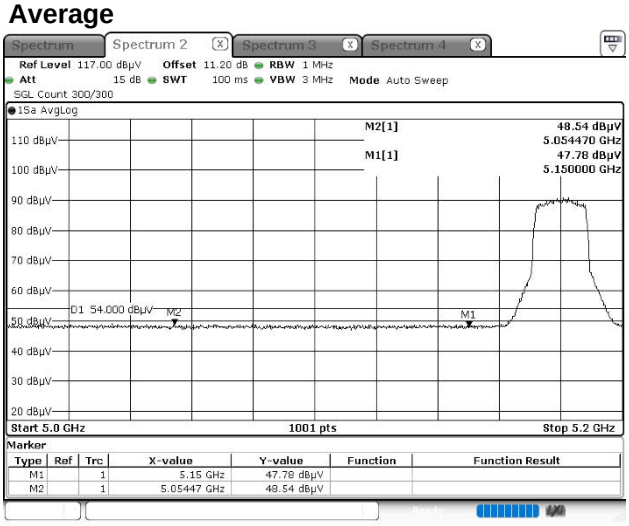
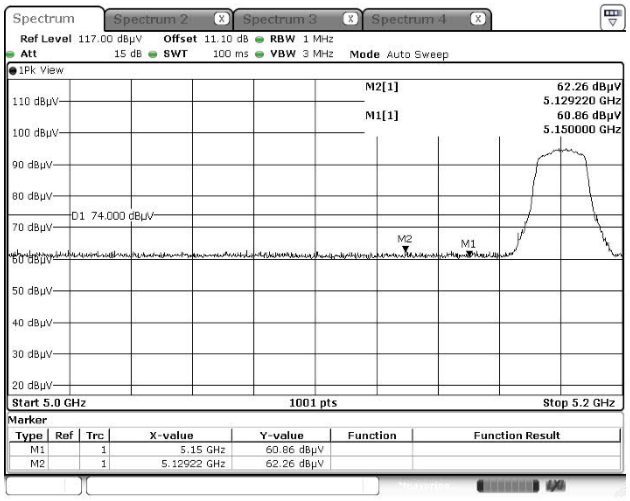


Vertical
Peak



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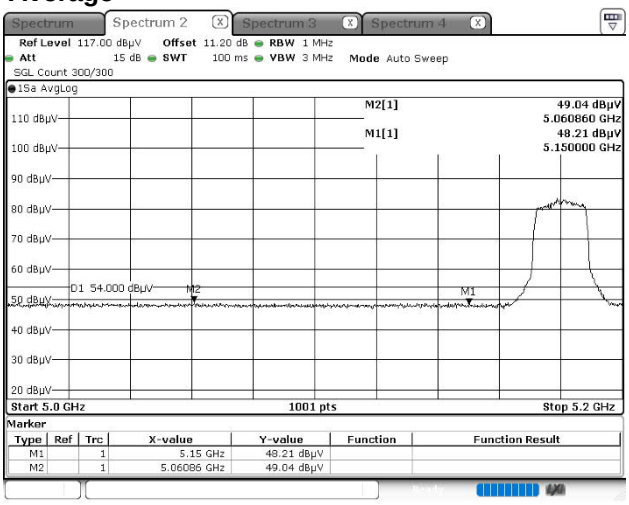


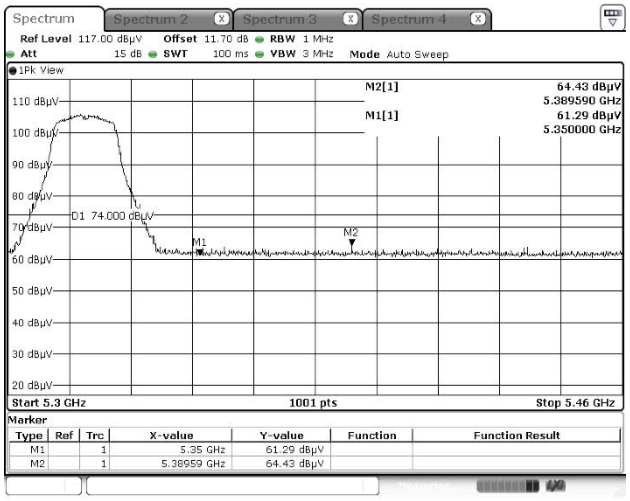
Japan

[IEEE802.11a]

5.3 GHz Band, Channel High

Horizontal

Peak



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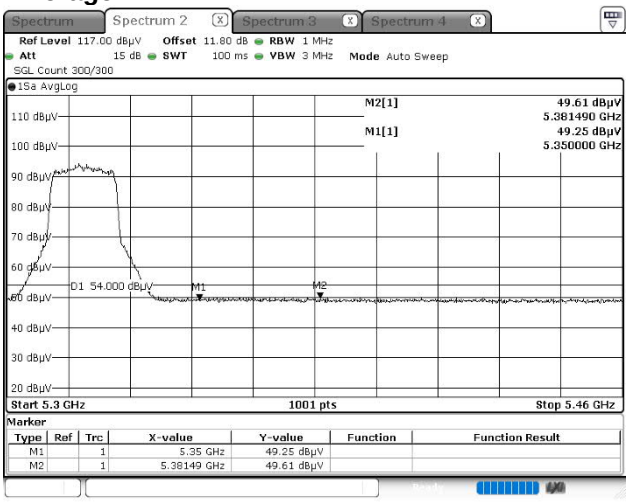
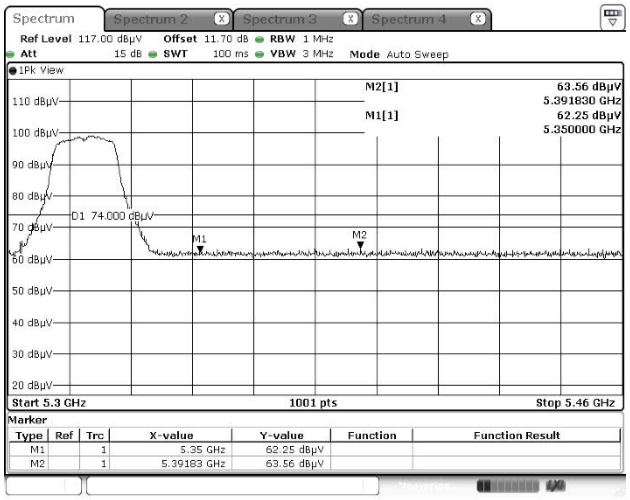


Vertical

Peak



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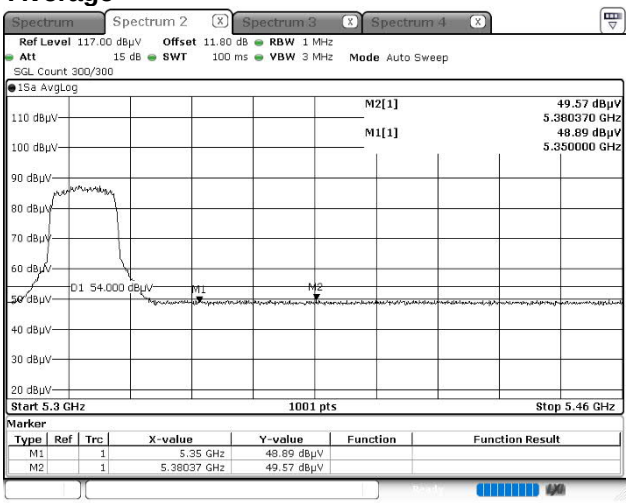
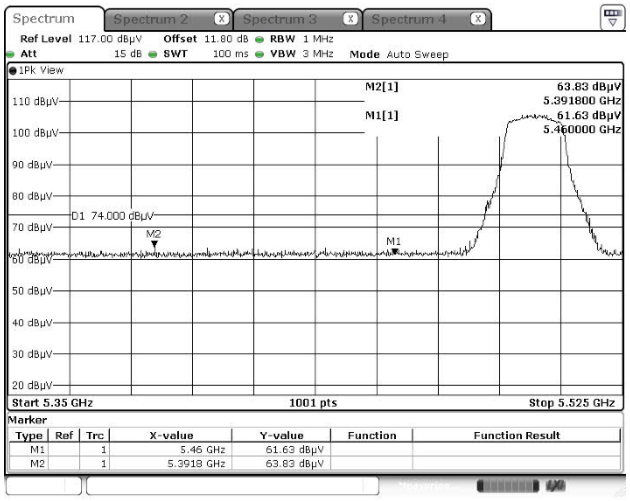


Japan

[IEEE802.11a]

5.6 GHz Band, Channel Low
Horizontal
Peak



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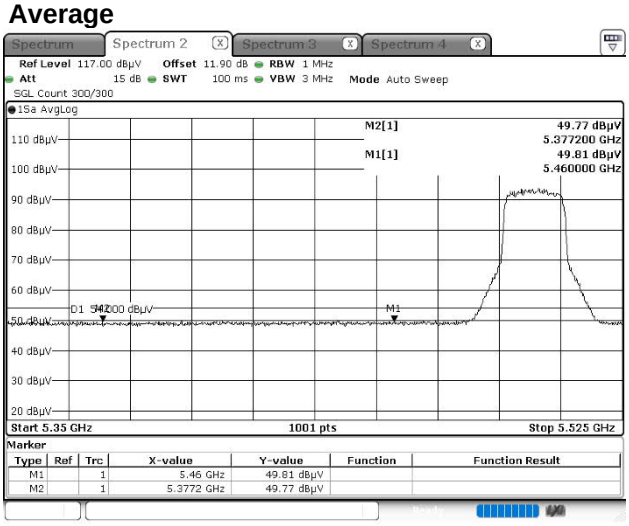
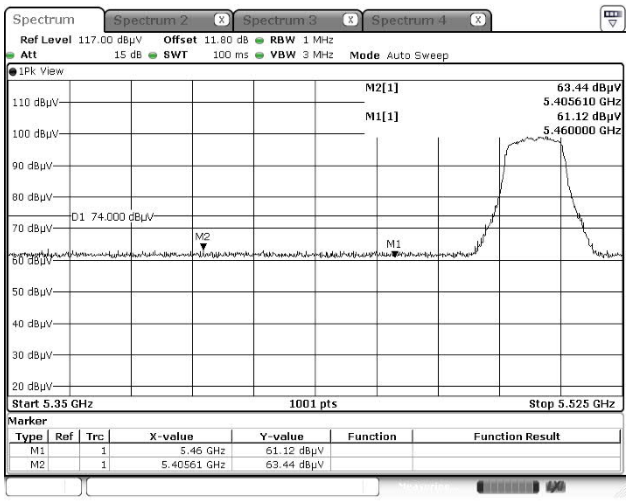


Vertical
Peak



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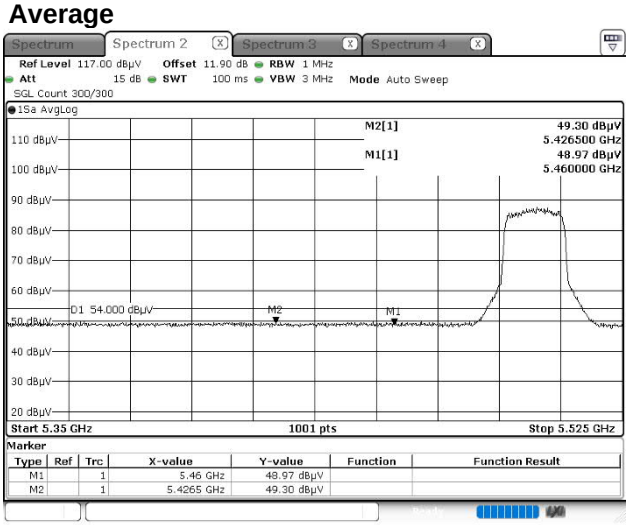
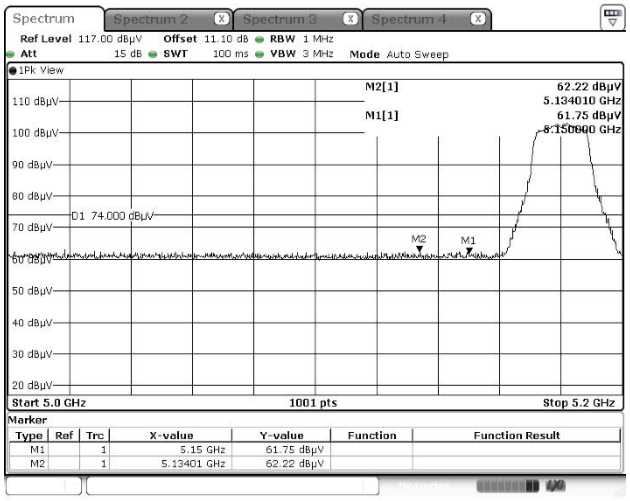


[IEEE802.11n (HT20)]

5.2 GHz Band, Channel Low
Horizontal
Peak



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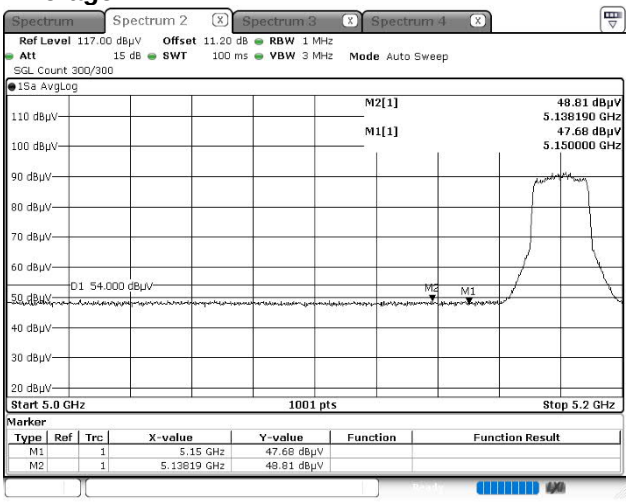
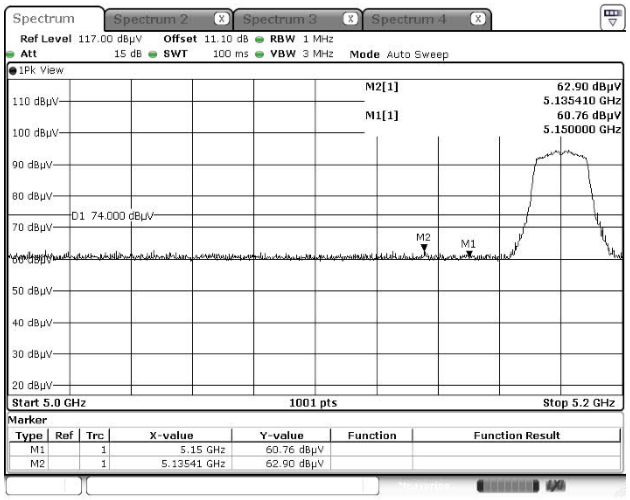


Vertical
Peak



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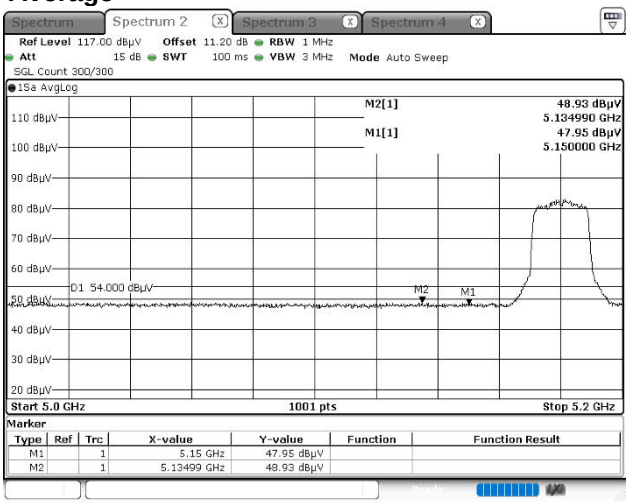
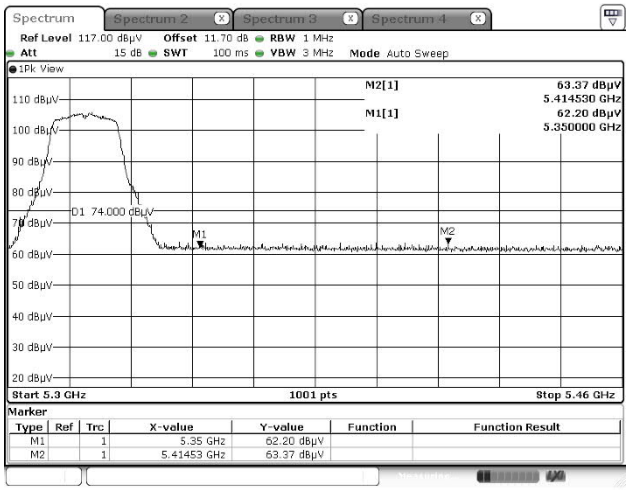


Japan

[IEEE802.11n (HT20)]

5.3 GHz Band, Channel High
Horizontal
Peak



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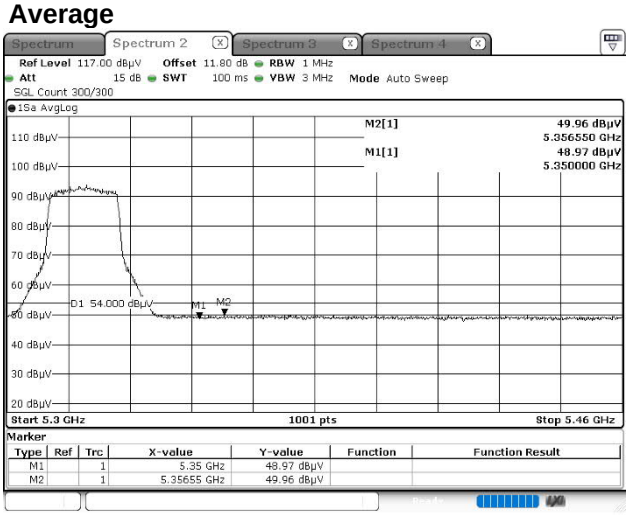
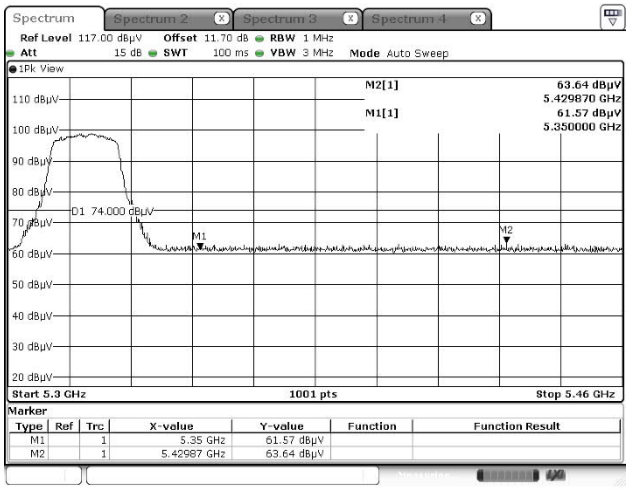
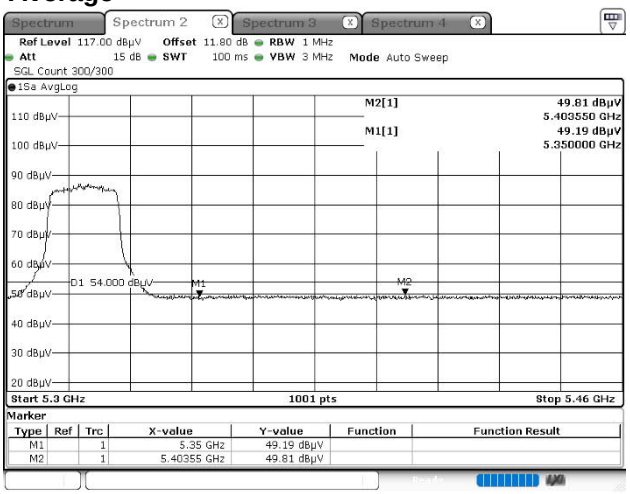


Vertical
Peak



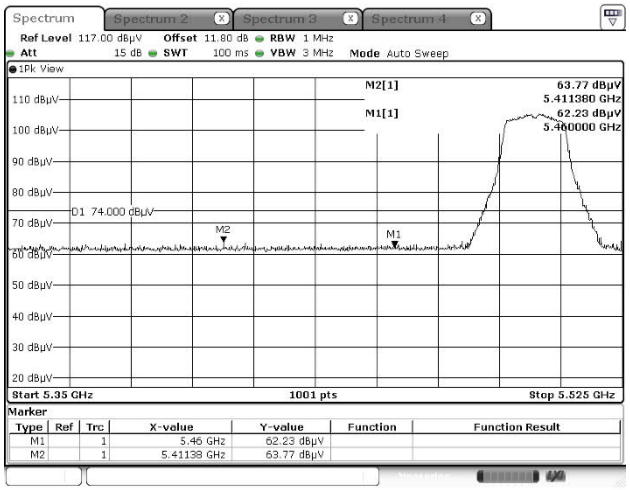
Average



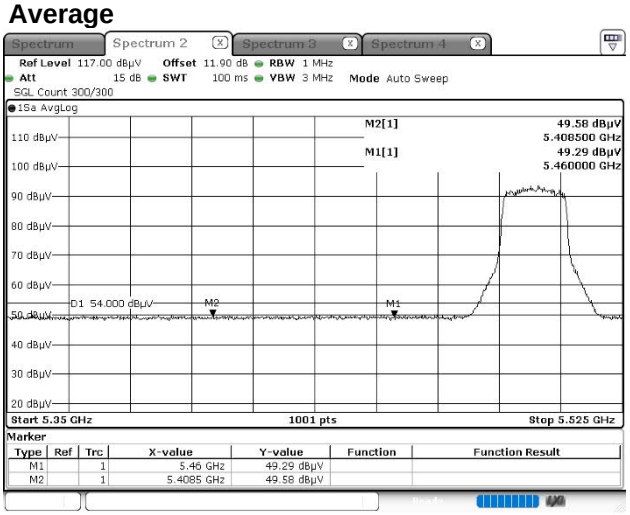
Japan

[IEEE802.11n (HT20)]

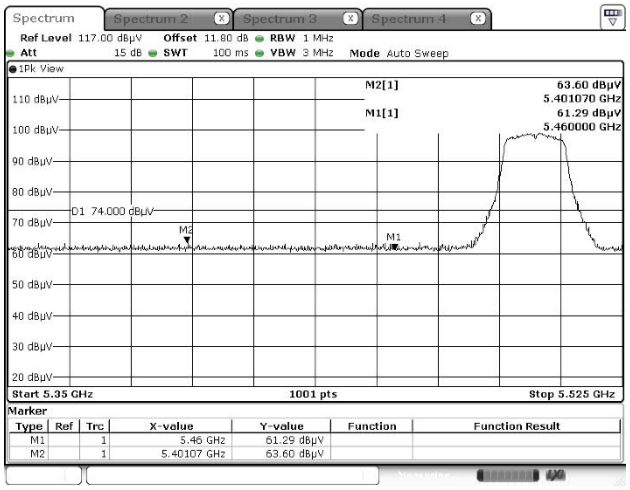
5.6 GHz Band, Channel Low
Horizontal
Peak



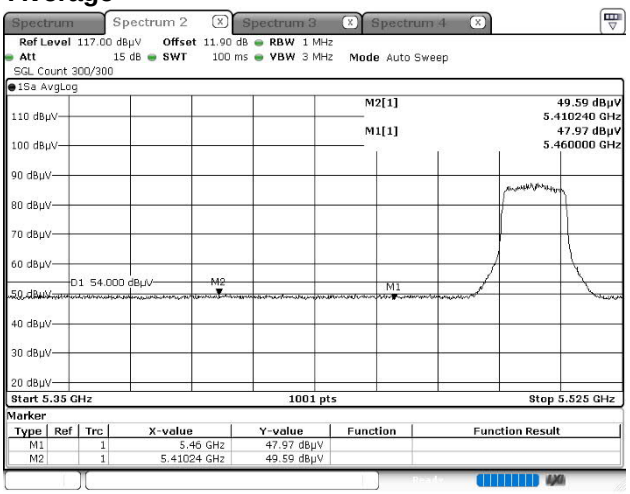
Average



Vertical
Peak

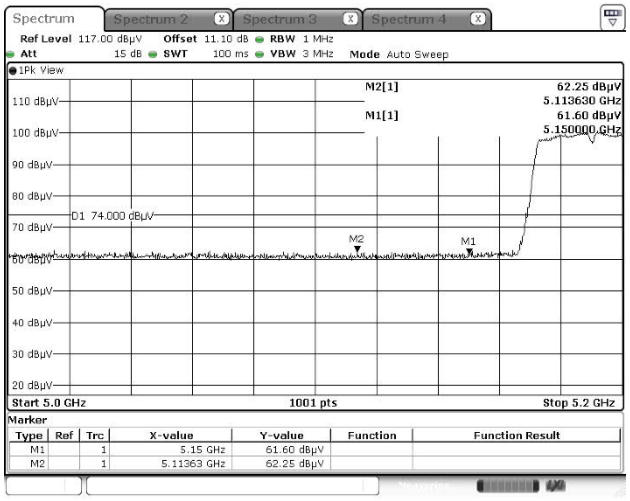


Average

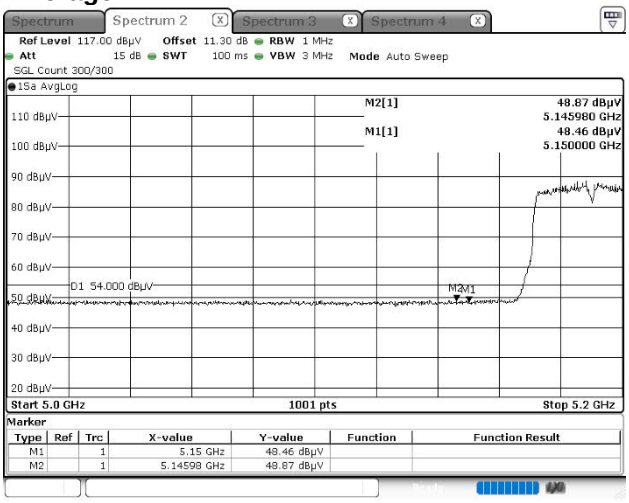


[IEEE802.11n (HT40)]

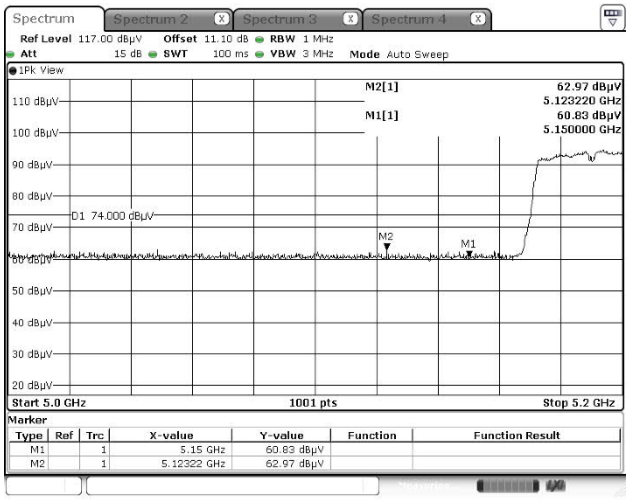
5.2 GHz Band, Channel Low
Horizontal
Peak



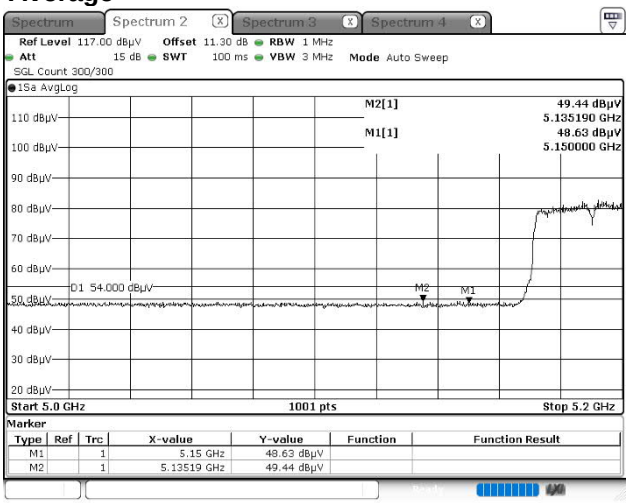
Average



Vertical
Peak



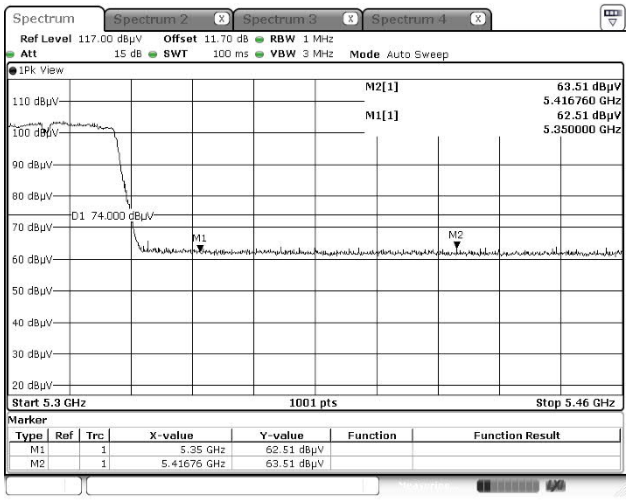
Average



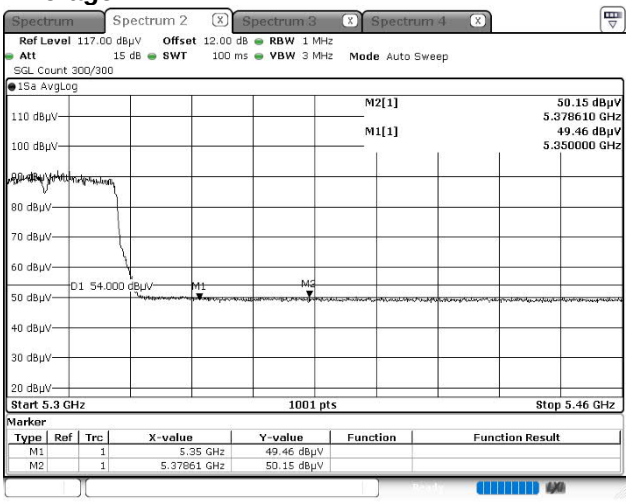
Japan

[IEEE802.11n (HT40)]

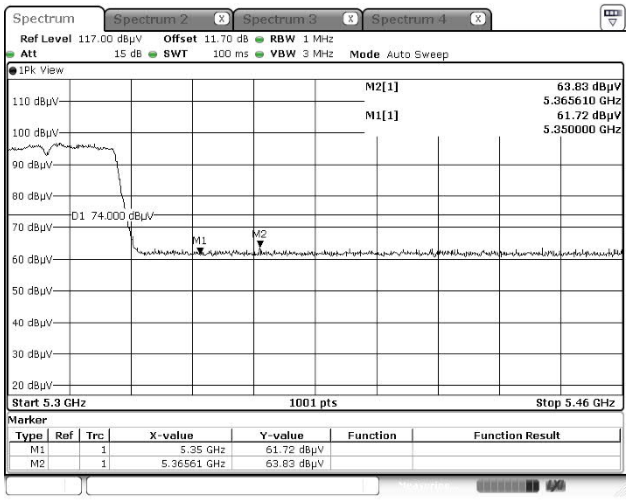
5.3 GHz Band, Channel High
Horizontal
Peak



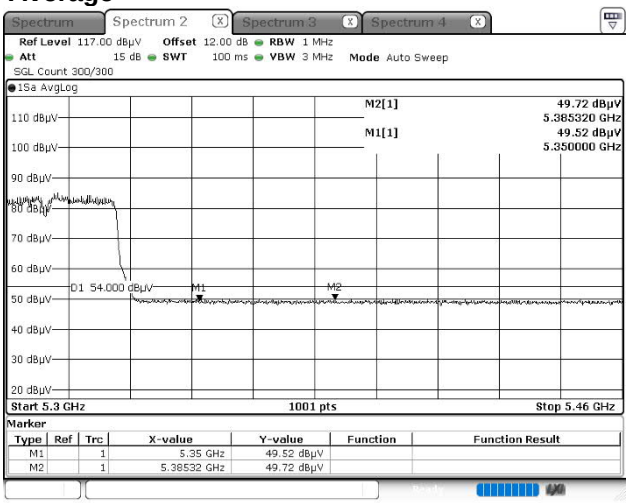
Average



Vertical
Peak

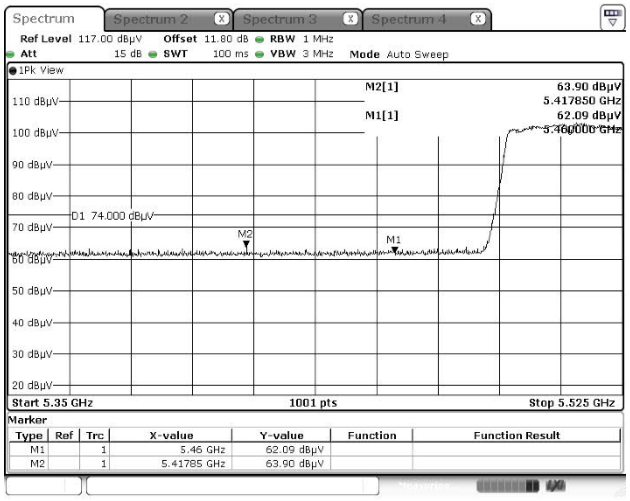


Average

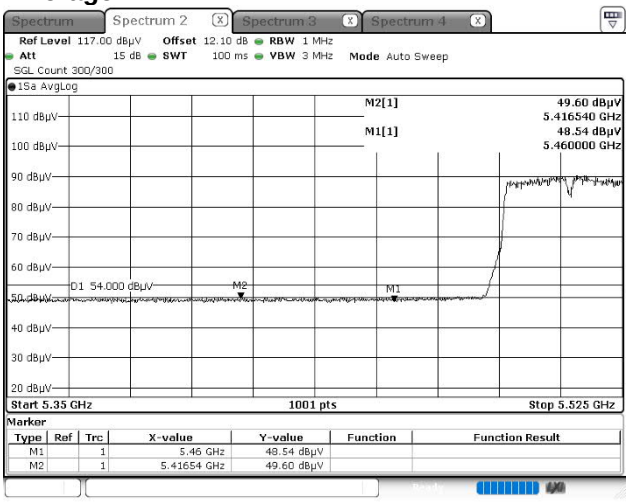


[IEEE802.11n (HT40)]

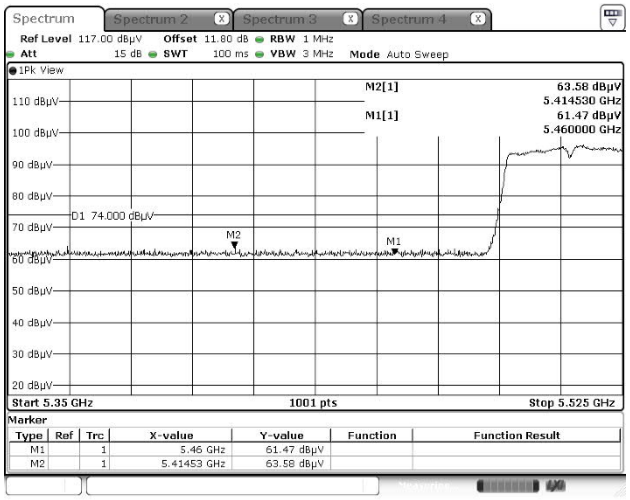
5.6 GHz Band, Channel Low
Horizontal
Peak



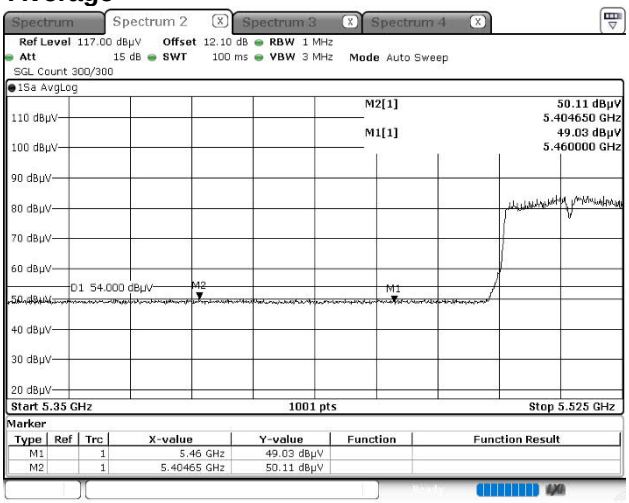
Average



Vertical
Peak

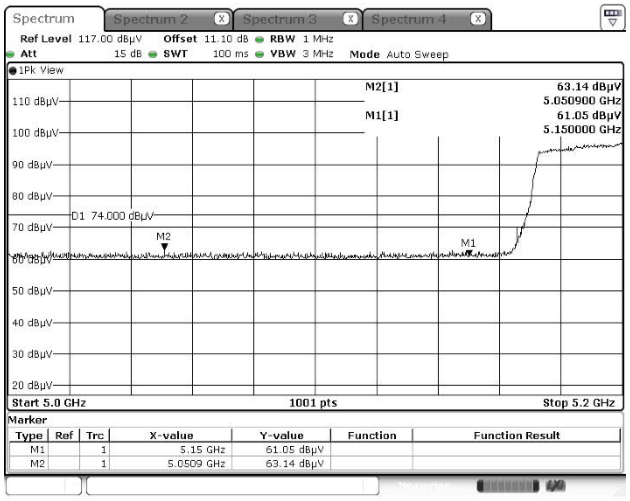


Average

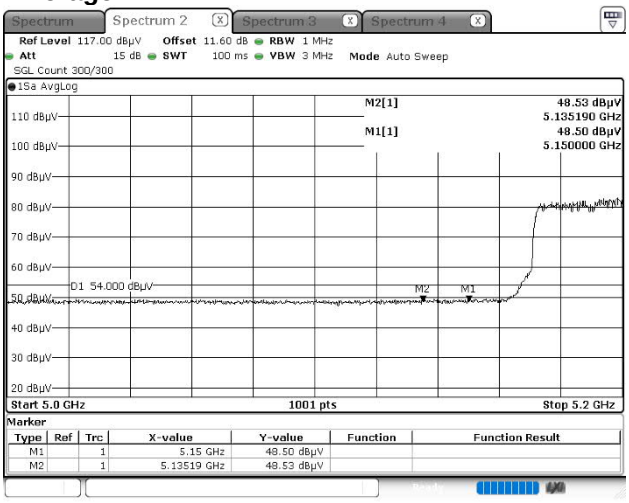


[IEEE802.11ac (VHT80)]

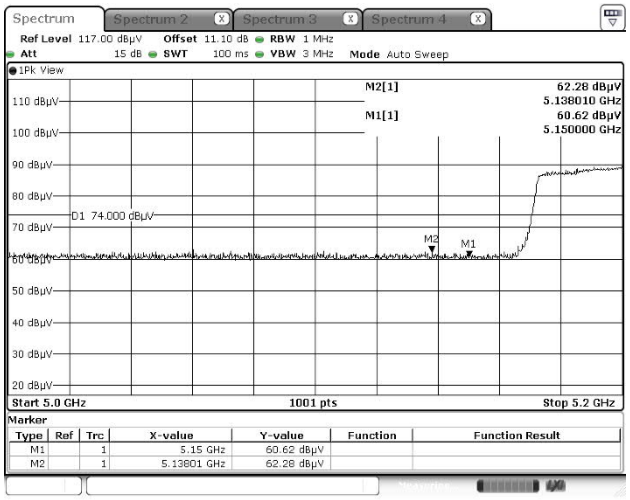
5.2 GHz Band, Channel Low
Horizontal
Peak



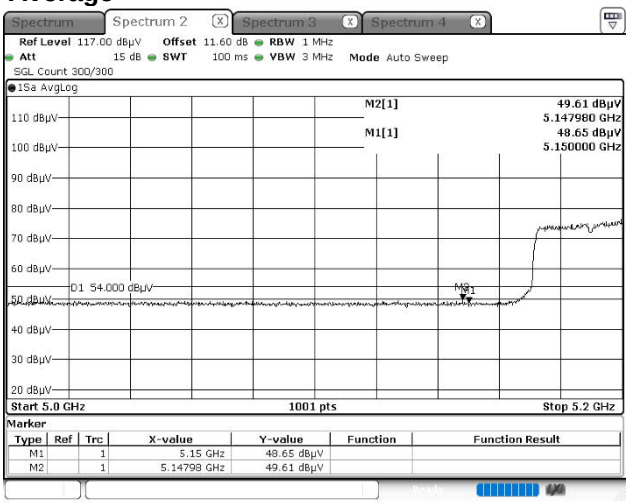
Average



Vertical
Peak

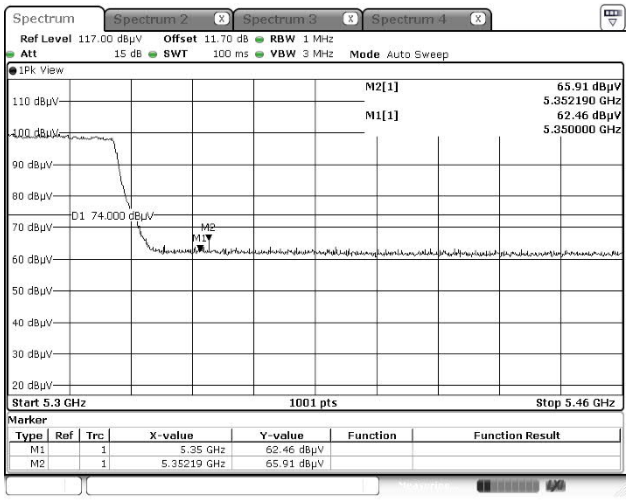


Average

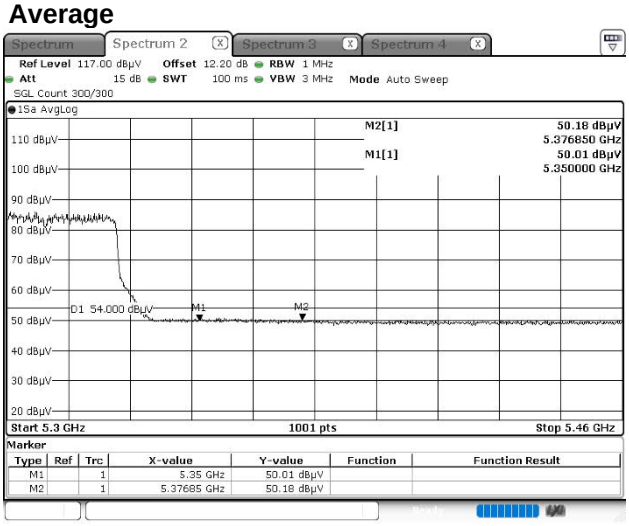


[IEEE802.11ac (VHT80)]

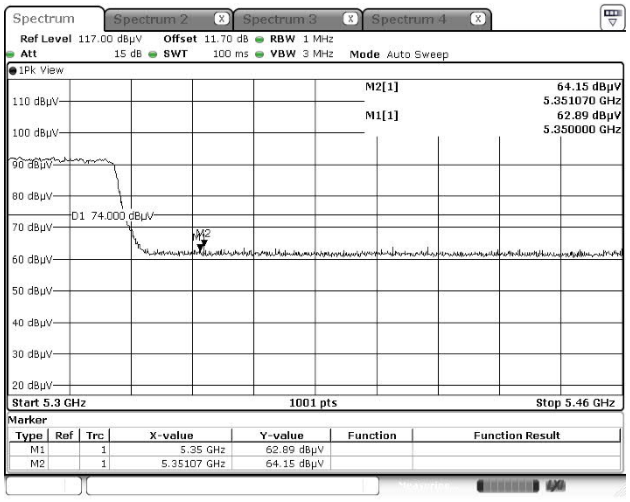
5.3 GHz Band, Channel High
Horizontal
Peak



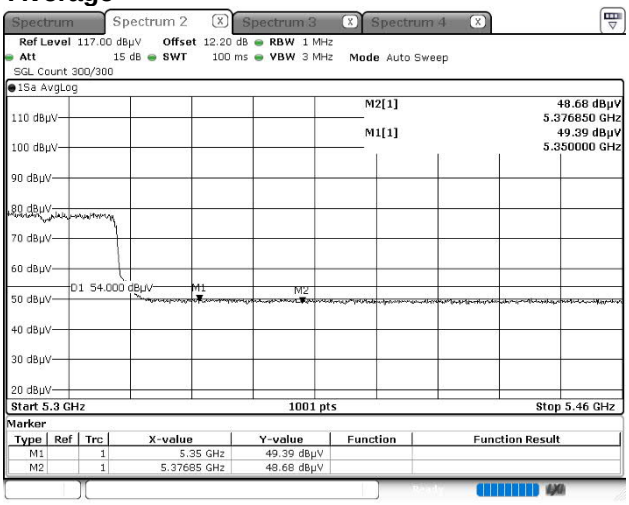
Average



Vertical
Peak



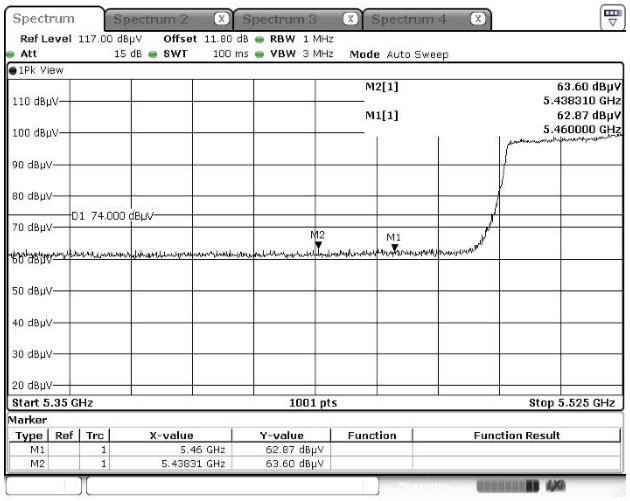
Average



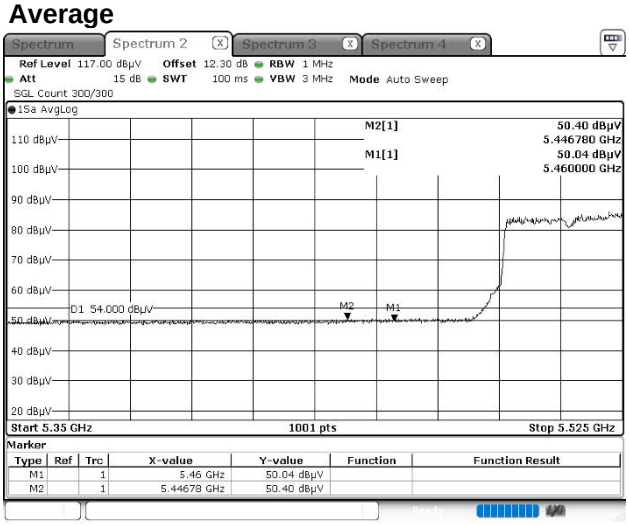
Japan

[IEEE802.11ac (VHT80)]

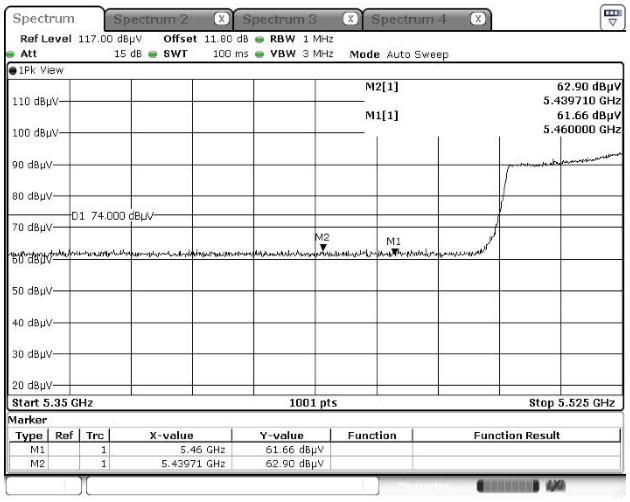
5.6 GHz Band, Channel Low
Horizontal
Peak



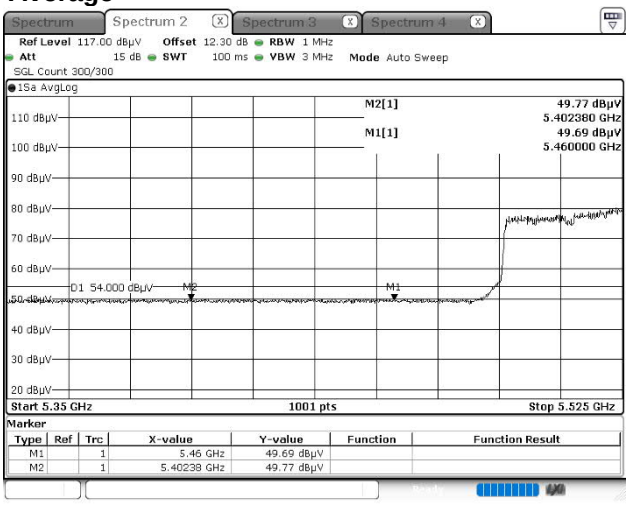
Average



Vertical
Peak



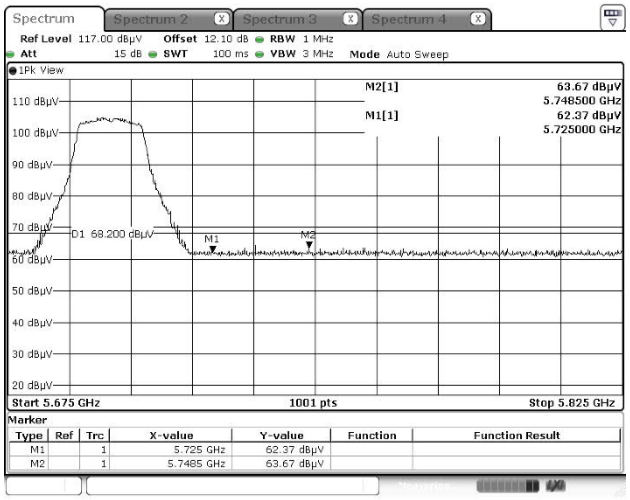
Average



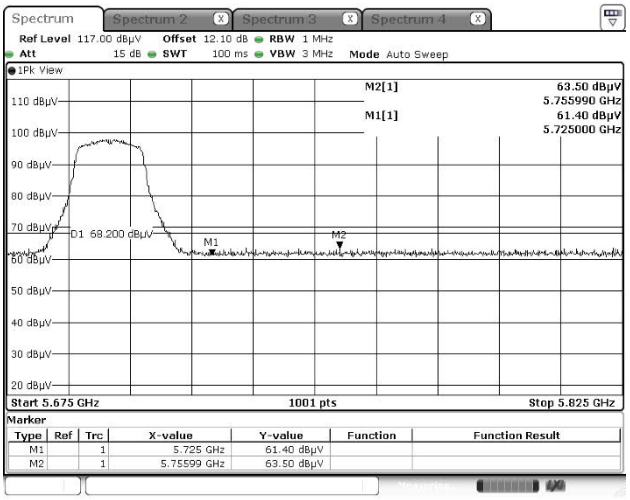
4.1.4.2 Non-Restricted Bandedge

[IEEE802.11a]

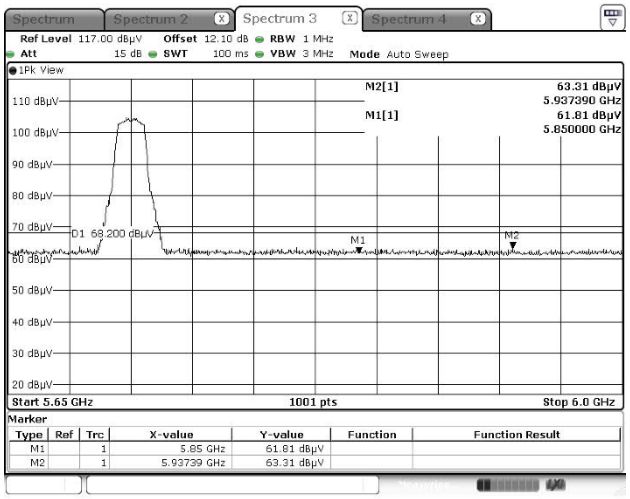
5.6 GHz Band, Channel High (140)
Peak
Horizontal



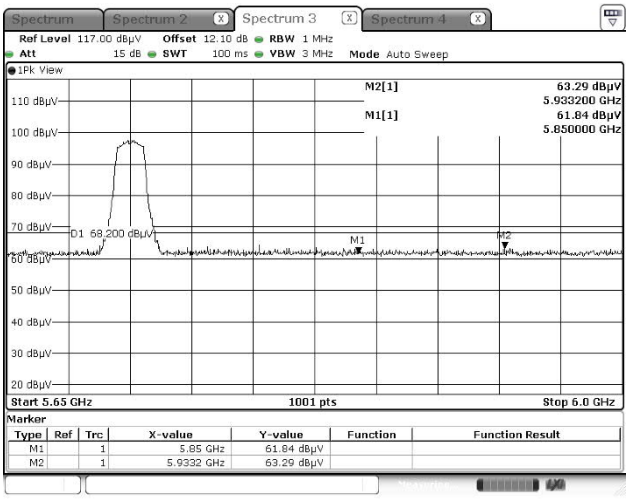
Vertical



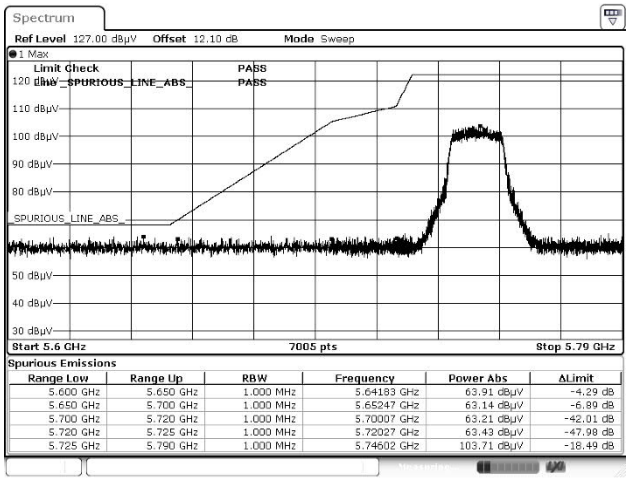
5.6 GHz Band, Channel High (144)
Peak
Horizontal



Vertical

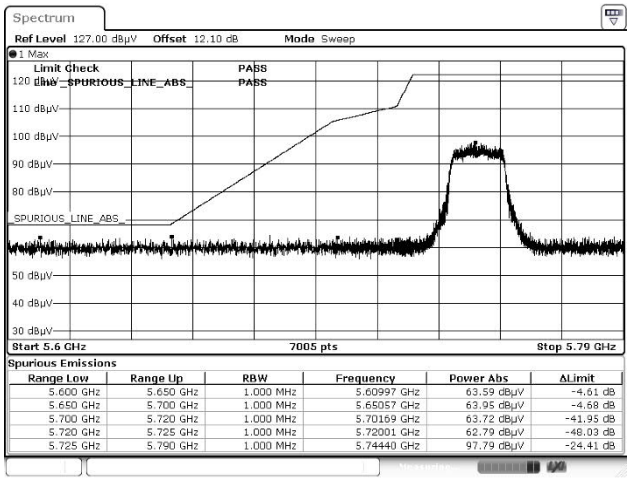


5.8 GHz Band, Channel Low (149)
Peak
Horizontal



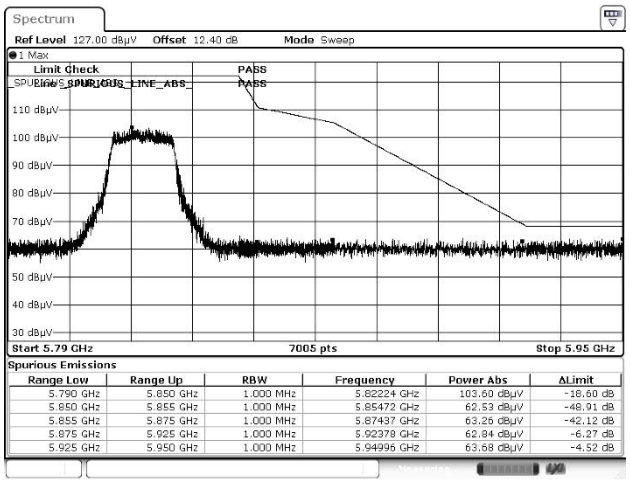
Date: 23.OCT.2021 17:52:10

Vertical



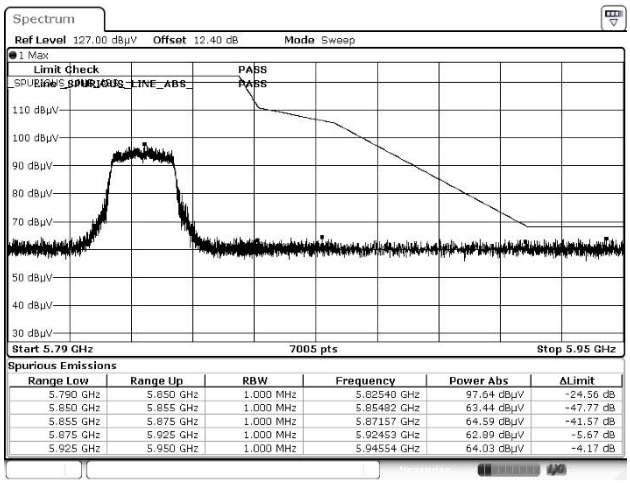
Date: 23.OCT.2021 17:54:49

5.8 GHz Band, Channel High (165)
Peak
Horizontal



Date: 23.OCT.2021 19:34:15

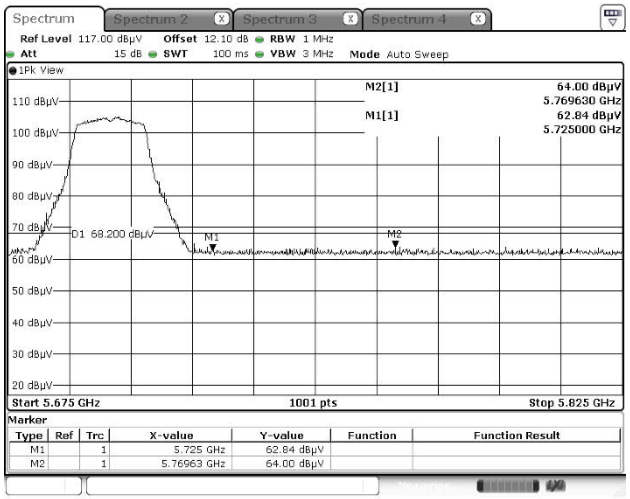
Vertical



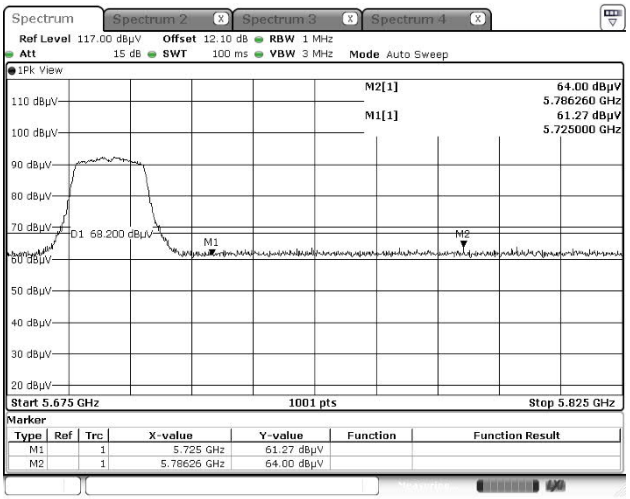
Date: 23.OCT.2021 19:37:00

[IEEE802.11n (HT20)]

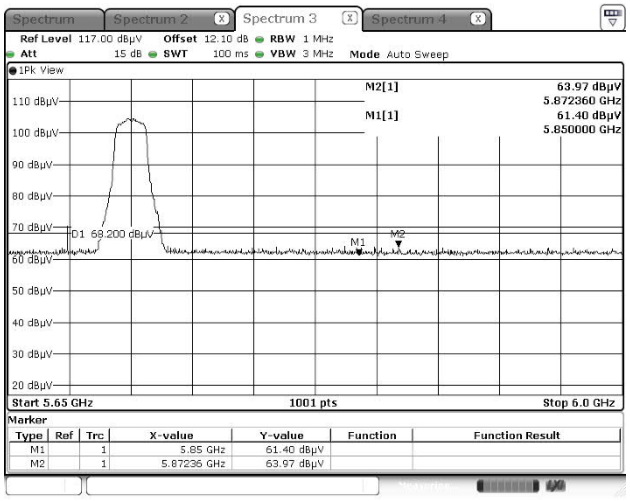
5.6GHz Band, Channel High (140)
Peak
Horizontal



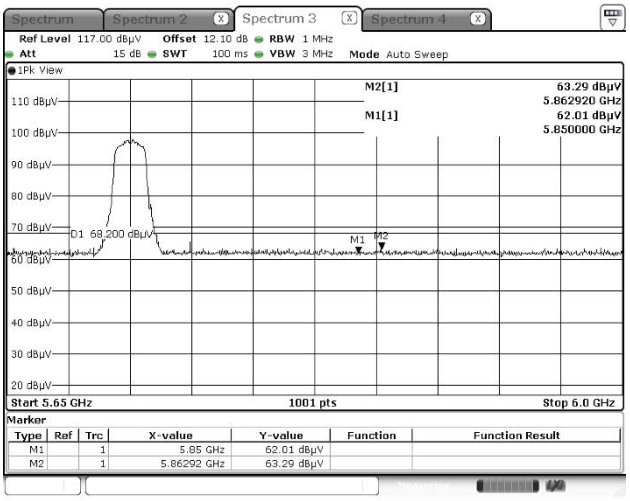
Vertical



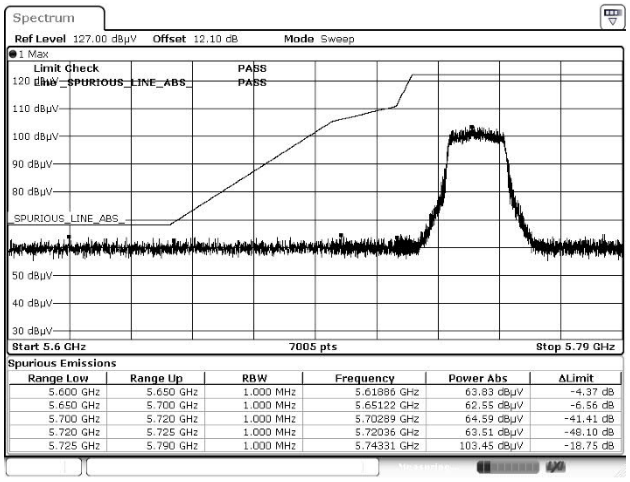
5.6GHz Band, Channel High (144)
Peak
Horizontal



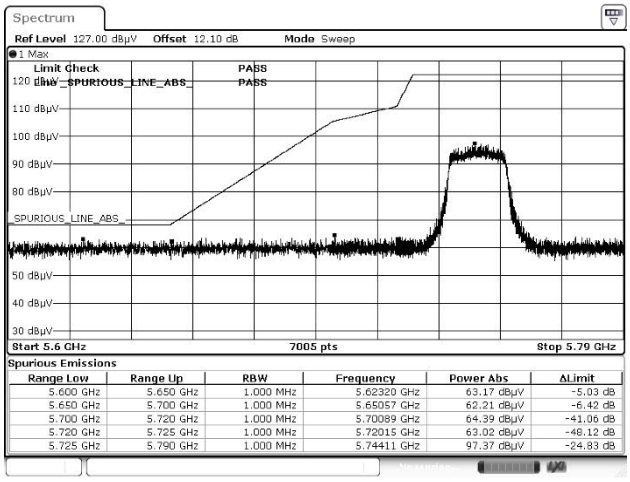
Vertical



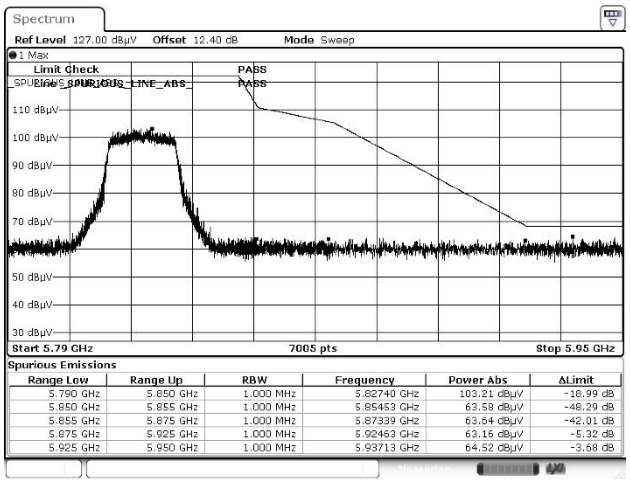
5.8 GHz Band, Channel Low (149)
Peak
Horizontal



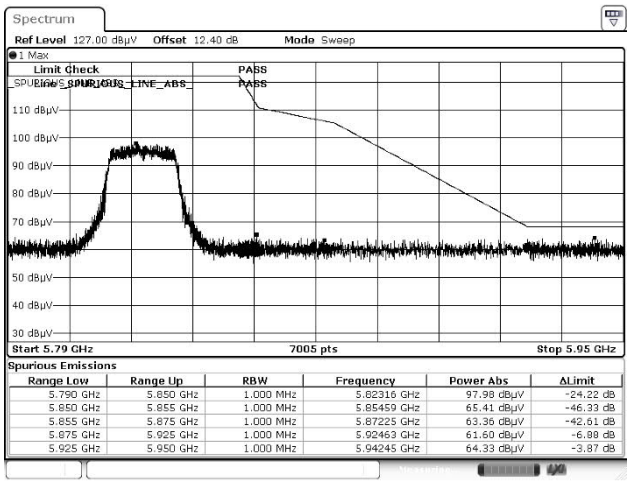
Vertical



5.8 GHz Band, Channel High (165)
Peak
Horizontal

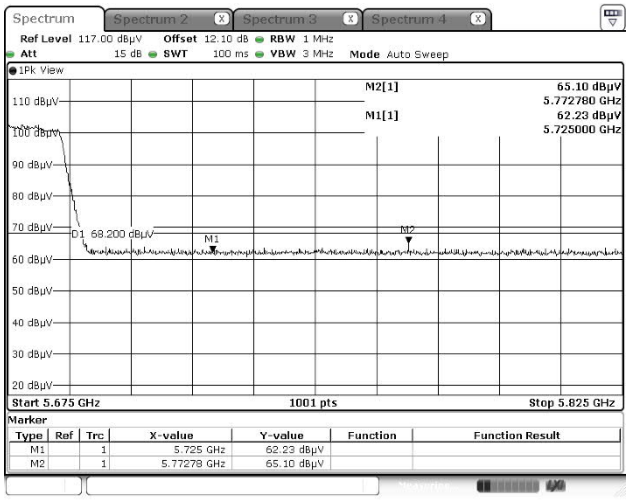


Vertical

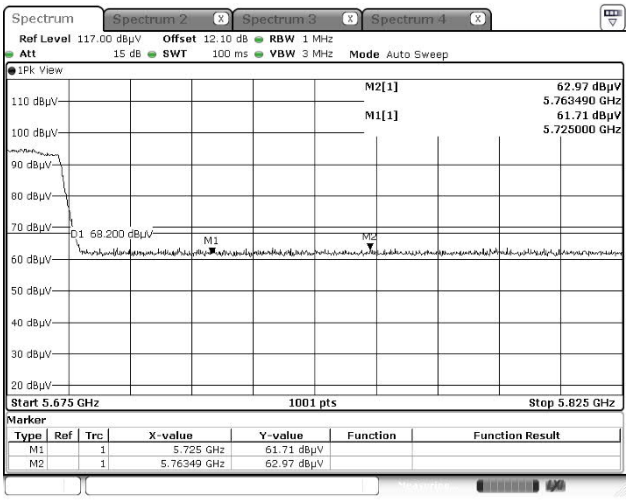


[IEEE802.11n (HT40)]

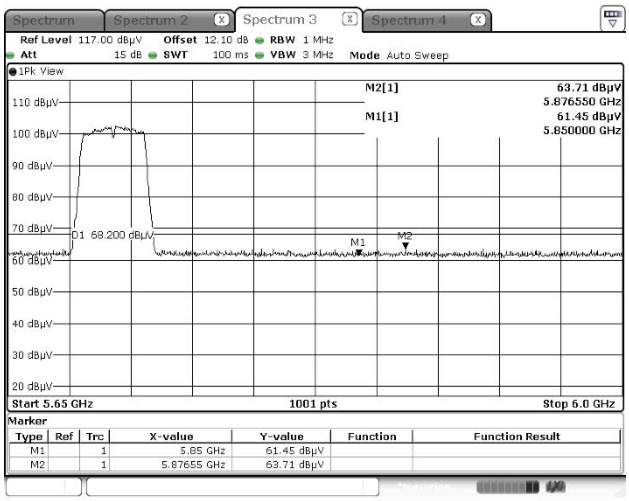
5.6GHz Band, Channel High (134)
Peak
Horizontal



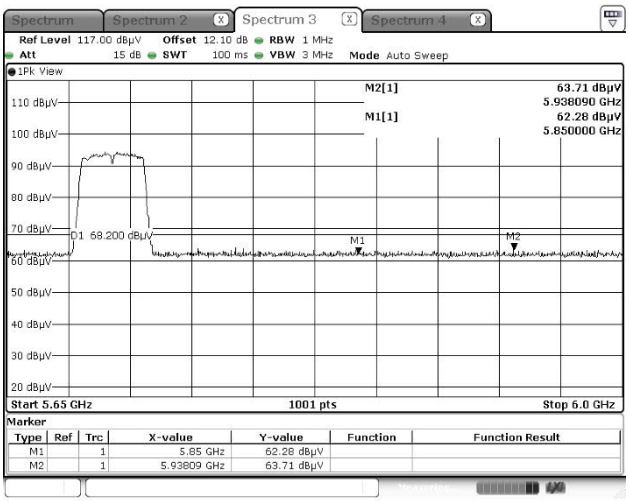
Vertical



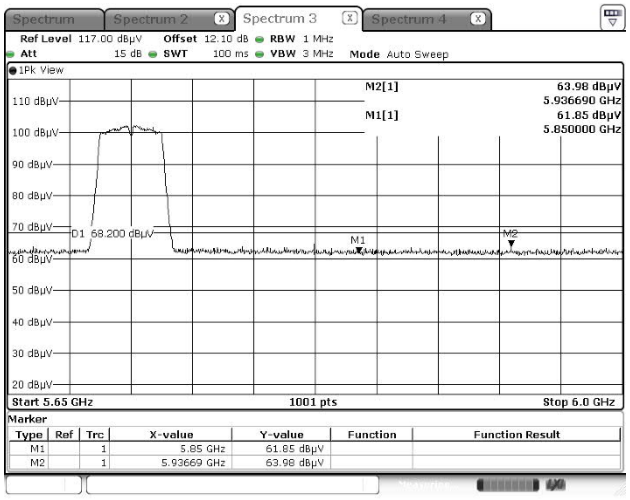
5.6GHz Band, Channel High (142)
Peak
Horizontal



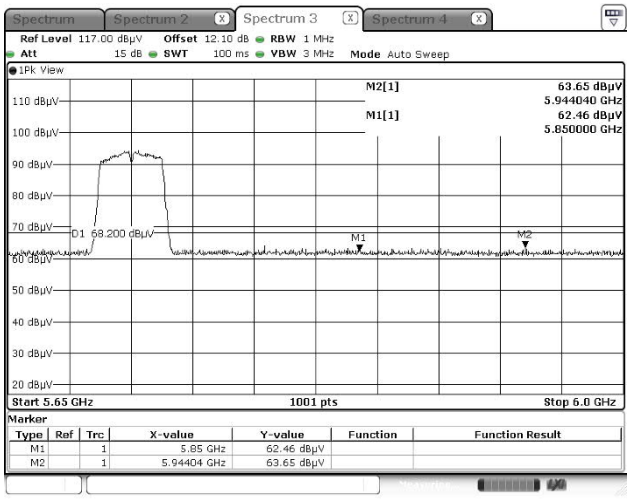
Vertical



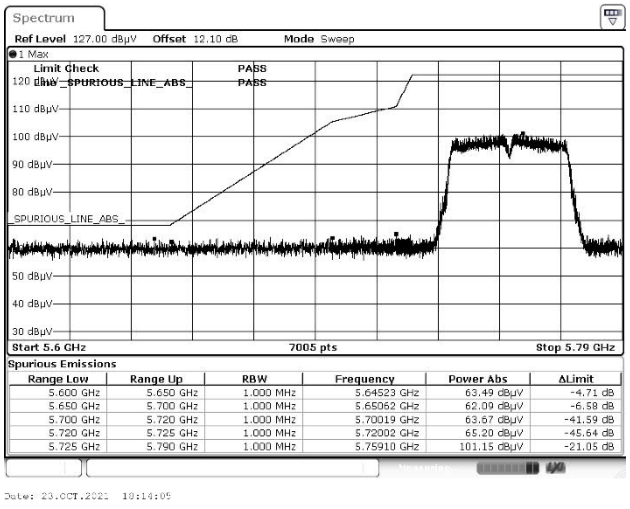
5.6GHz Band, Channel High (144)
Peak
Horizontal



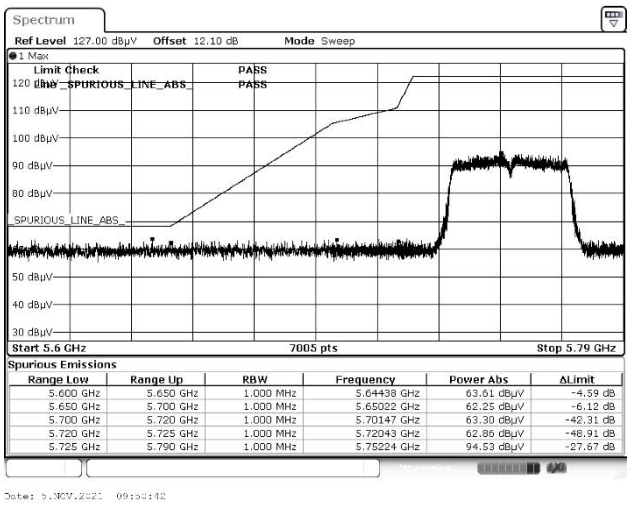
Vertical



5.8GHz Band, Channel Low (151)
Peak
Horizontal

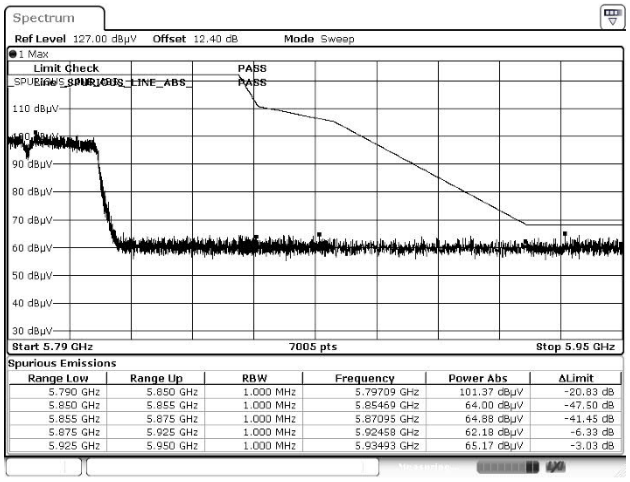


Vertical

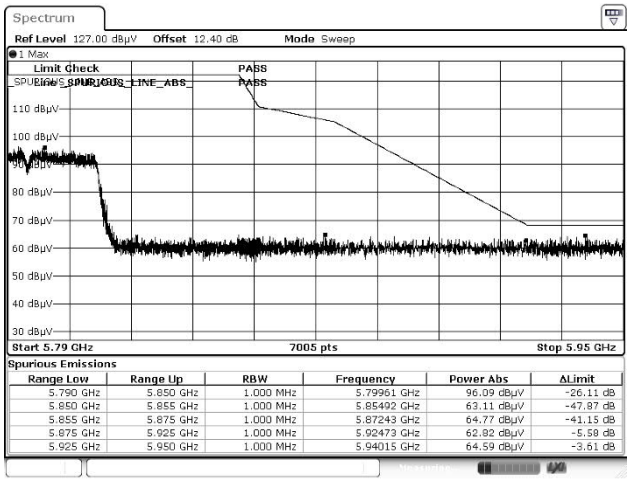


Japan

5.8GHz Band, Channel High (159)
Peak
Horizontal

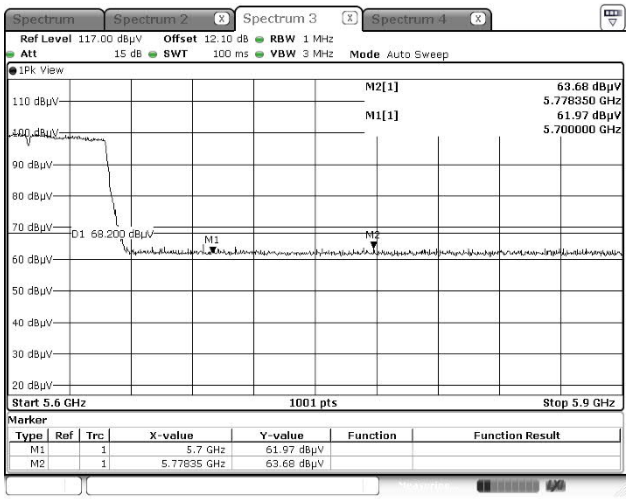


Vertical

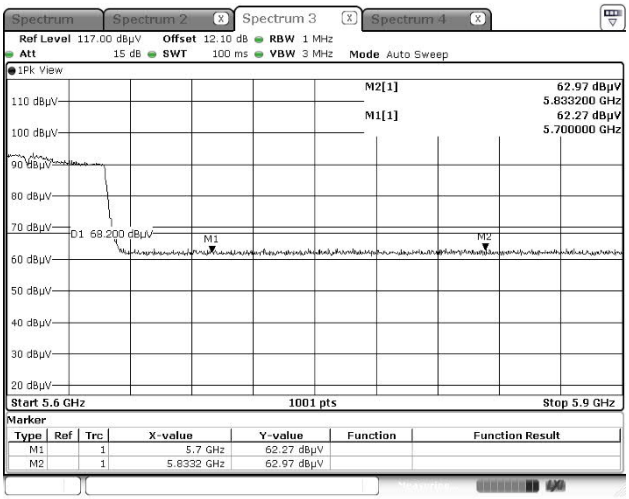


[IEEE802.11ac (VHT80)]

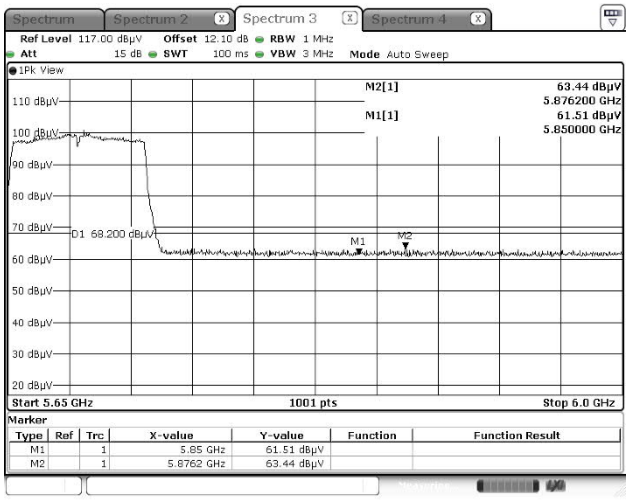
5.6GHz Band, Channel High (122)
Peak
Horizontal



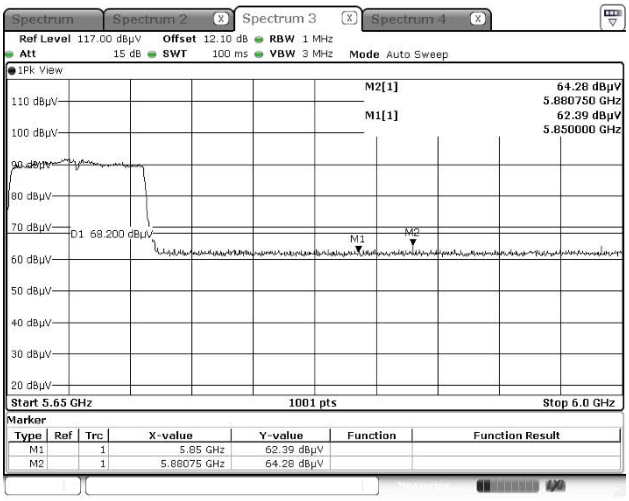
Vertical



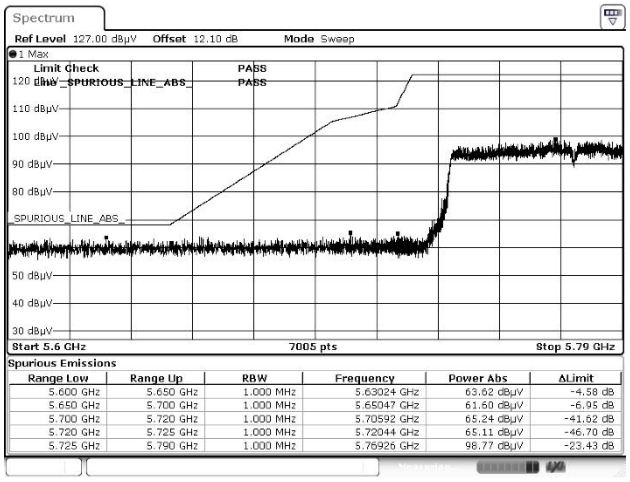
5.6GHz Band, Channel High (138)
Peak
Horizontal



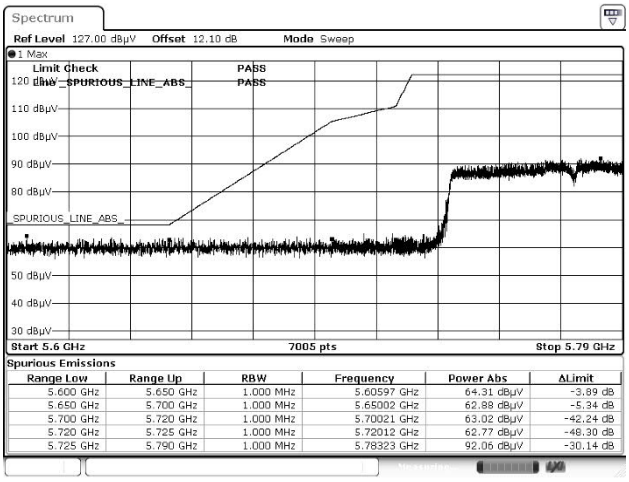
Vertical



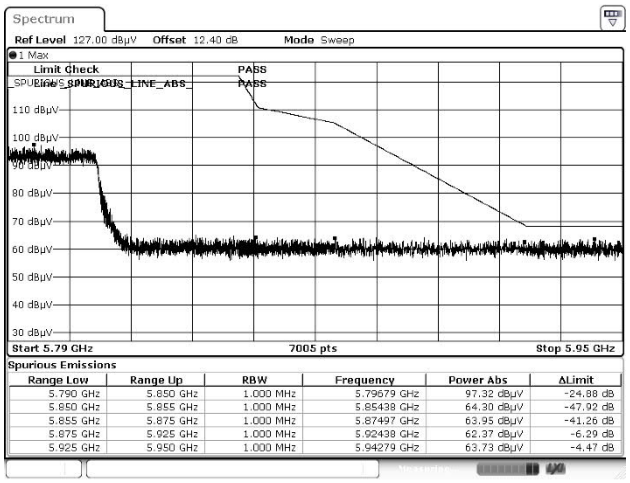
5.8GHz Band, Channel Low (155)
Peak
Horizontal



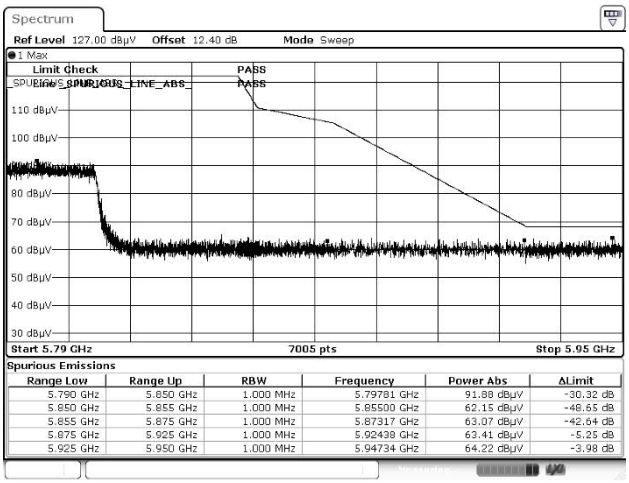
Vertical



5.8GHz Band, Channel High (155)
Peak
Horizontal



Vertical



Japan

4.1.4.3 Radiated Emissions

Date	:	22-October-2021			
Temperature	:	23.8 [˚C]			
Humidity	:	30.1 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	26-October-2021			
Temperature	:	22.4 [˚C]			
Humidity	:	40.0 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	27-October-2021			
Temperature	:	22.7 [˚C]			
Humidity	:	39.7 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	28-Octobert-2021			
Temperature	:	22.7 [˚C]			
Humidity	:	42.8 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	29-Octobert-2021			
Temperature	:	21.5 [˚C]			
Humidity	:	36.3 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	1~2-November-2021			
Temperature	:	22.6 [˚C]			
Humidity	:	42.6 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	2~3-November-2021			
Temperature	:	22.1 [˚C]			
Humidity	:	41.6 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	3~4-November-2021			
Temperature	:	22.5 [˚C]			
Humidity	:	36.7 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	4~5-November-2021			
Temperature	:	22.3 [˚C]			
Humidity	:	35.8 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

[IEEE802.11a]
(5.2 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a	36	5180	10360.00	H	PK	45.0	11.2		56.2	68.2	12.0
	40	5200	10400.00	H	PK	44.7	11.3		56.0	68.2	12.2
	48	5240	10480.00	H	PK	43.6	11.4		55.0	68.2	13.2

(5.3 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a	52	5260	10520.00	H	PK	44.7	11.5		56.2	68.2	12.0
	56	5280	10560.00	H	PK	44.6	11.5		56.1	68.2	12.1
	64	5320	10640.00	H	PK	46.4	11.7		58.1	74.0	15.9
			10640.00	H	AV	30.8	11.7	0.128	42.6	54.0	11.4

(5.6 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a	100	5500	5468.40	H	PK	50.1	11.8		61.9	68.2	6.3
			5468.70	V	PK	49.5	11.8		61.3	68.2	6.9
			11000.00	H	PK	45.2	12.3		57.5	74.0	16.5
			11000.00	H	AV	30.1	12.3	0.121	42.5	54.0	11.5
	116	5580	11160.00	H	PK	45.4	12.3		57.7	74.0	16.3
			11160.00	H	AV	30.5	12.3	0.121	42.9	54.0	11.1
	140	5700	11400.00	H	PK	45.2	12.5		57.7	74.0	16.3
			11400.00	H	AV	30.5	12.5	0.121	43.1	54.0	10.9
	144	5720	11440.00	H	PK	45.5	12.5		58.0	74.0	16.0
			11440.00	H	AV	30.8	12.5	0.121	43.4	54.0	10.6

(5.8 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a	149	5745	5646.10	H	PK	49.4	11.9		61.3	68.2	6.9
			5644.20	V	PK	48.9	11.9		60.8	68.2	7.4
			11490.00	H	PK	45.7	12.5		58.2	74.0	15.8
			11490.00	H	AV	30.4	12.5	0.108	43.0	54.0	11.0
	157	5785	11570.00	H	PK	46.1	12.5		58.6	74.0	15.4
			11570.00	H	AV	30.7	12.5	0.108	43.3	54.0	10.7
	165	5825	11650.00	H	PK	45.3	12.5		57.8	74.0	16.2
			11650.00	H	AV	30.4	12.5	0.108	43.0	54.0	11.0

Note:
1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

Japan

[IEEE802.11n (HT20)]

(5.2 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (20MHz)	36	5180	10360.00	H	PK	45.6	11.2		56.8	68.2	11.4
	40	5200	10400.00	H	PK	44.9	11.3		56.2	68.2	12.0
	48	5240	10480.00	H	PK	44.5	11.4		55.9	68.2	12.3

(5.3 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (20MHz)	52	5260	10520.00	H	PK	45.0	11.5		56.5	68.2	11.7
	56	5280	10560.00	H	PK	45.5	11.5		57.0	68.2	11.2
	64	5320	10640.00	H	PK	45.7	11.7		57.4	74.0	16.6
			10640.00	H	AV	30.7	11.7	0.129	42.5	54.0	11.5

(5.6 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (20MHz)	100	5500	5468.44	H	PK	49.8	11.8		61.6	68.2	6.6
			5464.48	V	PK	49.6	11.8		61.4	68.2	6.8
			11000.00	H	PK	45.2	12.3		57.5	74.0	16.5
			11000.00	H	AV	30.1	12.3	0.123	42.5	54.0	11.5
	116	5580	11160.00	H	PK	45.4	12.3		57.7	74.0	16.3
			11160.00	H	AV	30.5	12.3	0.123	42.9	54.0	11.1
	140	5700	11400.00	H	PK	46.0	12.5		58.5	74.0	15.5
			11400.00	H	AV	30.5	12.5	0.123	43.1	54.0	10.9
	144	5720	11440.00	H	PK	45.9	12.5		58.4	74.0	15.6
			11440.00	H	AV	30.8	12.5	0.123	43.4	54.0	10.6

(5.8 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (20MHz)	149	5745	5631.00	H	PK	49.3	11.9		61.2	68.2	7.0
			5641.70	V	PK	49.1	11.9		61.0	68.2	7.2
			11490.00	H	PK	45.0	12.5		57.5	74.0	16.5
			11490.00	H	AV	30.3	12.5	0.122	42.9	54.0	11.1
	157	5785	11570.00	H	PK	45.6	12.5		58.1	74.0	15.9
			11570.00	H	AV	30.8	12.5	0.122	43.4	54.0	10.6
	165	5825	11650.00	H	PK	45.5	12.5		58.0	74.0	16.0
			11650.00	H	AV	30.5	12.5	0.122	43.1	54.0	10.9

Note:
1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

Japan

[IEEE802.11n (HT40)]

(5.2 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (40MHz)	38	5190	10380.00	H	PK	46.0	11.2		57.2	68.2	11.0
	46	5230	10460.00	H	PK	44.8	11.4		56.2	68.2	12.0

(5.3 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (40MHz)	54	5270	10540.00	H	PK	45.8	11.5		57.3	68.2	10.9
	62	5310	10620.00	H	PK	45.6	11.7		57.3	74.0	16.7
			10620.00	H	AV	30.6	11.7	0.255	42.6	54.0	11.4

(5.6 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (40MHz)	102	5510	5467.65	H	PK	50.3	11.8		62.1	68.2	6.1
			5467.98	V	PK	49.2	11.8		61.0	68.2	7.2
			11020.00	H	PK	45.2	12.3		57.5	74.0	16.5
			11020.00	H	AV	30.0	12.3	0.249	42.5	54.0	11.5
	110	5550	11100.00	H	PK	45.5	12.3		57.8	74.0	16.2
			11100.00	H	AV	30.6	12.3	0.249	43.1	54.0	10.9
	134	5670	11340.00	H	PK	45.3	12.4		57.7	74.0	16.3
			11340.00	H	AV	30.4	12.4	0.249	43.0	54.0	11.0
	142	5710	11420.00	H	PK	45.0	12.5		57.5	74.0	16.5
			11420.00	H	AV	30.5	12.5	0.249	43.2	54.0	10.8

(5.8 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11n (40MHz)	151	5755	5647.45	H	PK	49.2	11.9		61.1	68.2	7.1
			5643.74	V	PK	49.8	11.9		61.7	68.2	6.5
			11510.00	H	PK	45.8	12.5		58.3	74.0	15.7
			11510.00	H	AV	30.7	12.5	0.256	43.5	54.0	10.5
	159	5795	11590.00	H	PK	45.6	12.5		58.1	74.0	15.9
			11590.00	H	AV	30.5	12.5	0.256	43.3	54.0	10.7

Note:
1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

[IEEE802.11ac (VHT80)]

(5.2 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11ac (80MHz)	42	5210	10420.00	H	PK	45.3	11.3		56.6	68.2	11.6

(5.3 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11ac (80MHz)	58	5290	10580.00	H	PK	45.1	11.6		56.7	68.2	11.5

(5.6 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11ac (80MHz)	106	5530	5463.71	H	PK	50.4	11.8		62.2	68.2	6.0
			5464.43	V	PK	50.3	11.8		62.1	68.2	6.1
			11060.00	H	PK	45.5	12.3		57.8	74.0	16.2
			11060.00	H	AV	30.5	12.3	0.488	43.3	54.0	10.7
	122	5610	11220.00	H	PK	45.5	12.4		57.9	74.0	16.1
			11220.00	H	AV	30.9	12.4	0.488	43.8	54.0	10.2
	138	5690	11380.00	H	PK	45.1	12.5		57.6	74.0	16.4
			11380.00	H	AV	30.6	12.5	0.481	43.6	54.0	10.4

(5.8 GHz Band)

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBµV)	C.F (dB)	DCF (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11ac (80MHz)	155	5775	5645.77	H	PK	49.1	11.9		61.0	68.2	7.2
			5648.39	V	PK	49.0	11.9		60.9	68.2	7.3
			11060.00	H	PK	45.8	12.5		58.3	74.0	15.7
			11060.00	H	AV	30.9	12.5	0.475	43.9	54.0	10.1

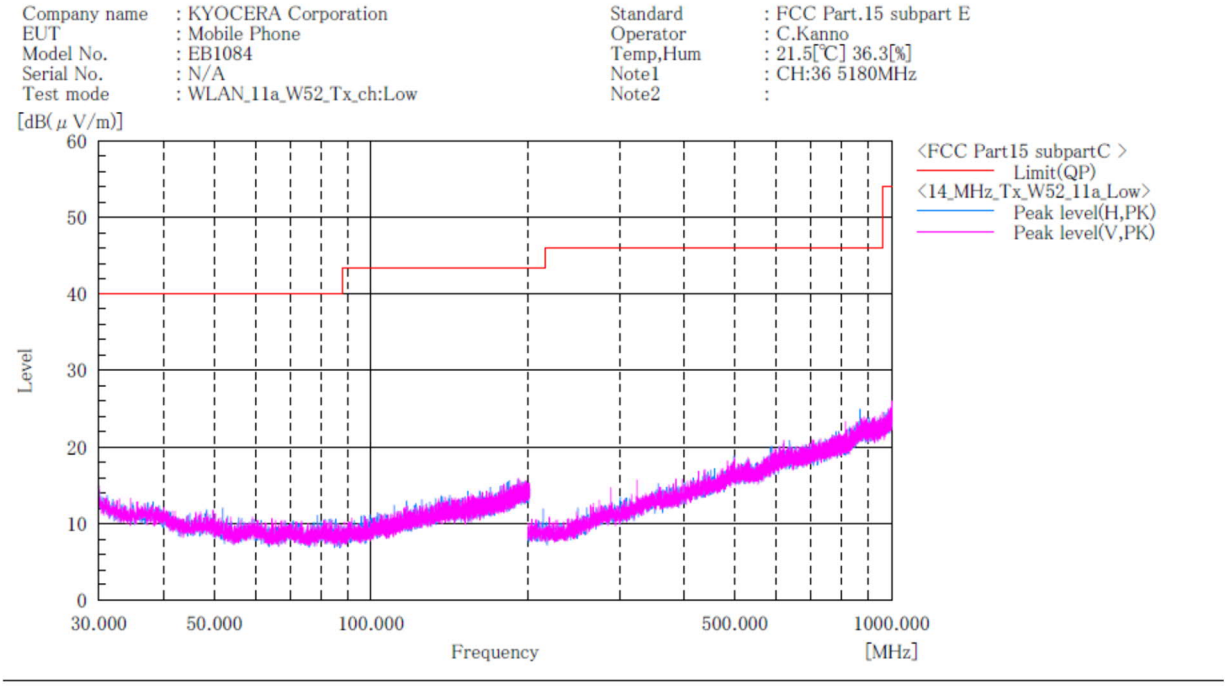
Note:
1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

Japan

4.1.4.4 Measurement chart

Transmission mode

[11a]
W52 / Channel Low
BELOW 1GHz



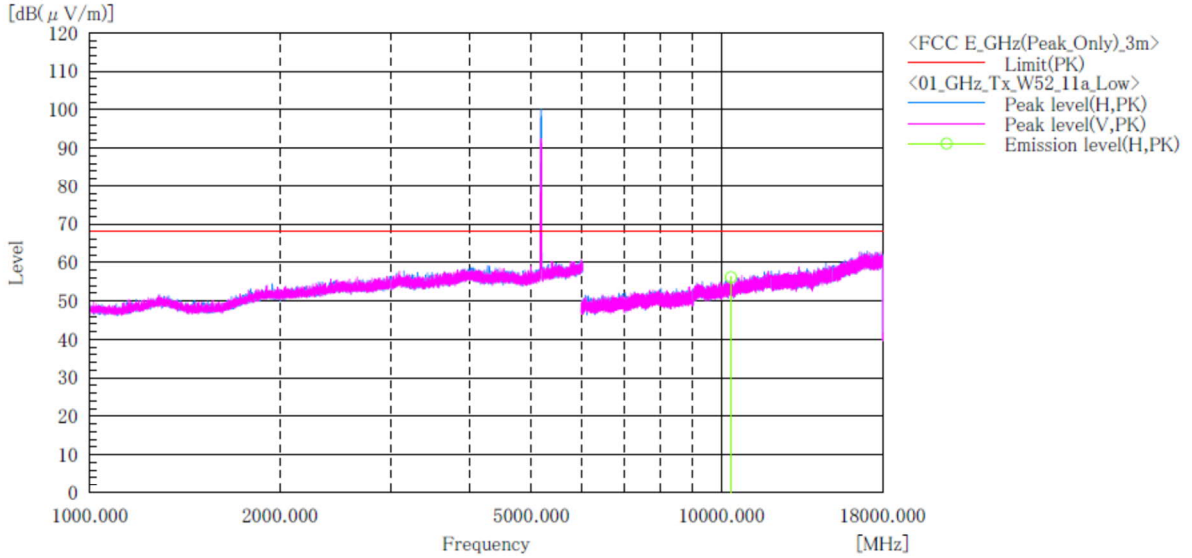
Final Result

No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

[11a]
W52 / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 23.8[℃] 30.1[%]
Serial No.	: 359178870020360	Note1	: ch:36_5180MHz
Test mode	: WLAN_W52_11a_Tx_Low	Note2	:



Final Result

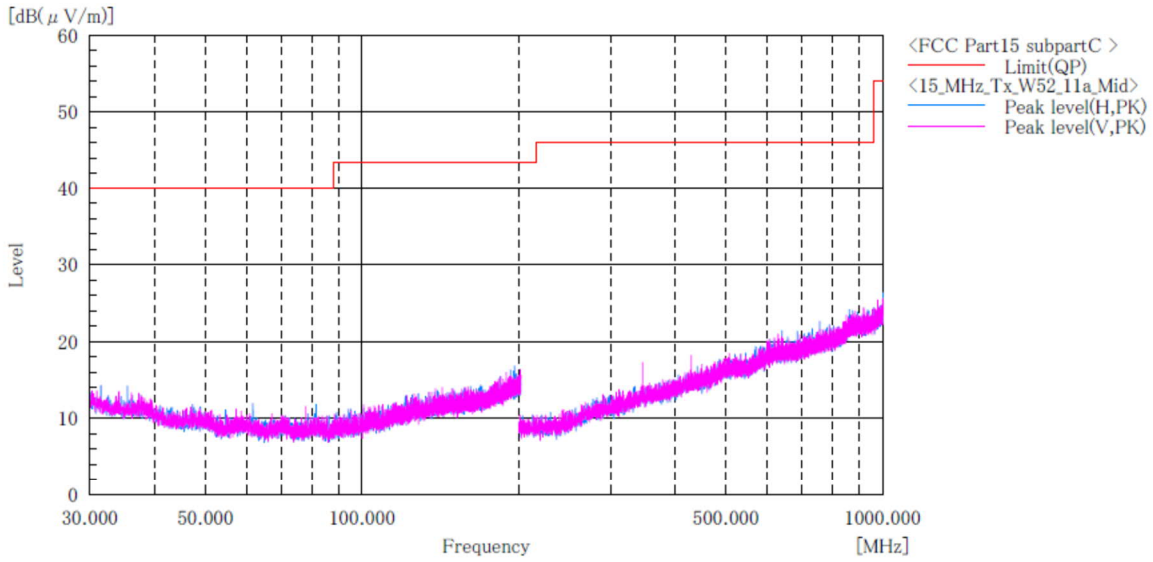
No.	Frequency	(P)	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[°]	
1	10360.000	H	45.0	11.2	56.2	68.2	12.0	100.0	270.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

Japan

[11a]
W52 / Channel Middle
BELOW 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1084	Temp,Hum	: 21.5[℃] 36.3[%]
Serial No.	: N/A	Note1	: CH:40 5200MHz
Test mode	: WLAN_11a_W52_Tx_ch:Mid	Note2	:



Final Result

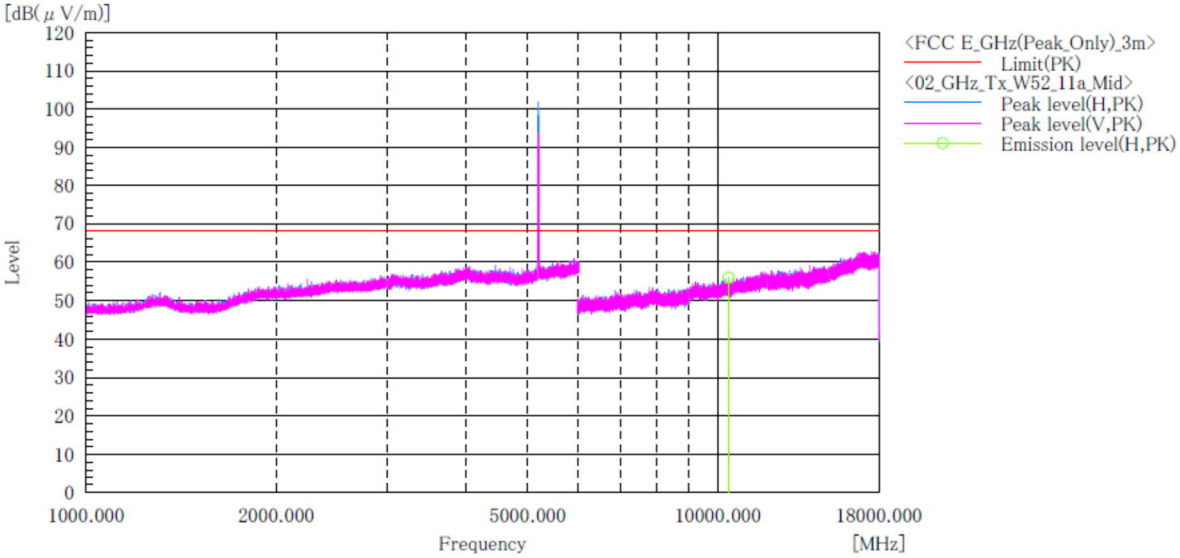
No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

Japan

[11a]
W52 / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 23.8[℃] 30.1[%]
Serial No.	: 359178870020360	Note1	: ch:40_5200MHz
Test mode	: WLAN_W52_11a_Tx_Mid	Note2	:



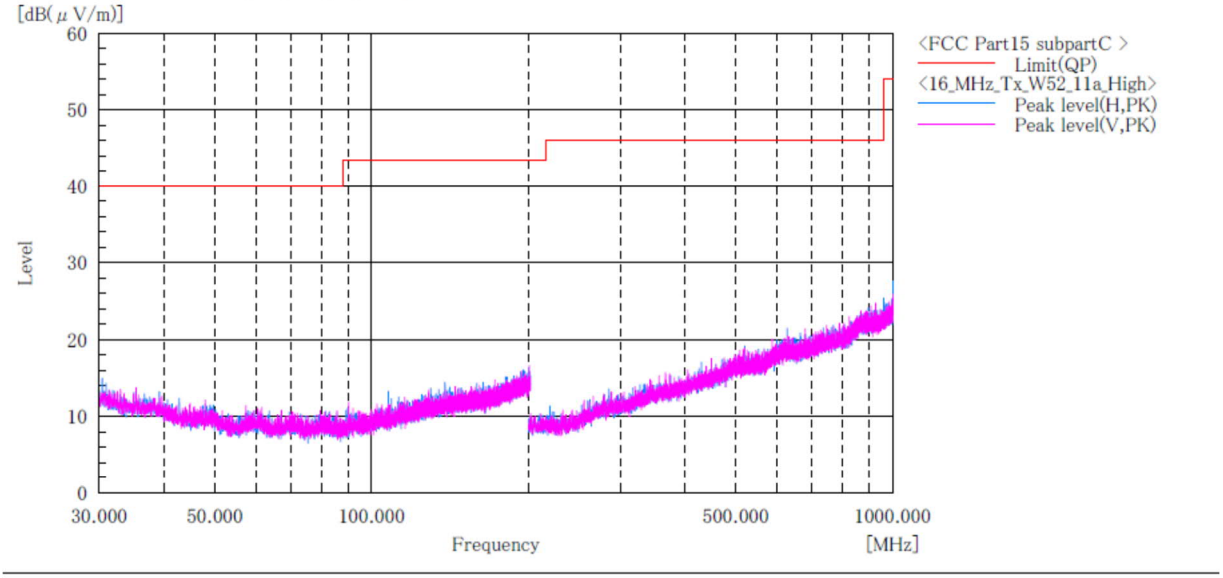
Final Result

No.	Frequency	(P)	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[°]	
1	10400.000	H	44.7	11.3	56.0	68.2	12.2	100.0	260.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

[11a]
W52 / Channel High
BELOW 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1084	Temp,Hum	: 21.5[℃] 36.3[%]
Serial No.	: N/A	Note1	: CH:48 5240MHz
Test mode	: WLAN_11a_W52_Tx_ch:High	Note2	:



Final Result

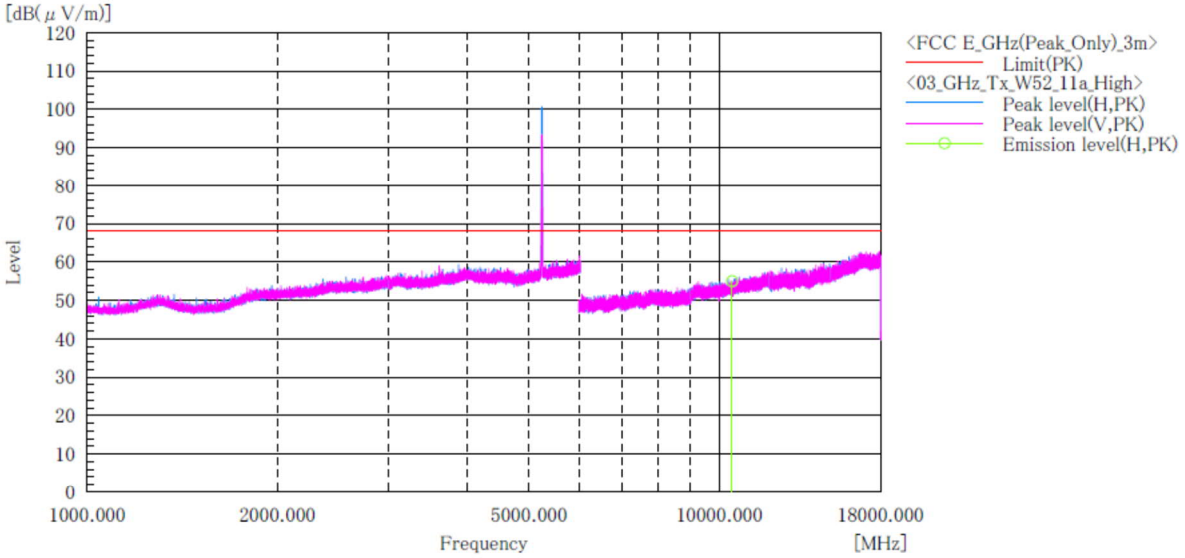
No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

Japan

[11a]
W52 / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 23.8[℃] 30.1[%]
Serial No.	: 359178870020360	Note1	: ch:48_5240MHz
Test mode	: WLAN_W52_11a_Tx_High	Note2	:



Final Result

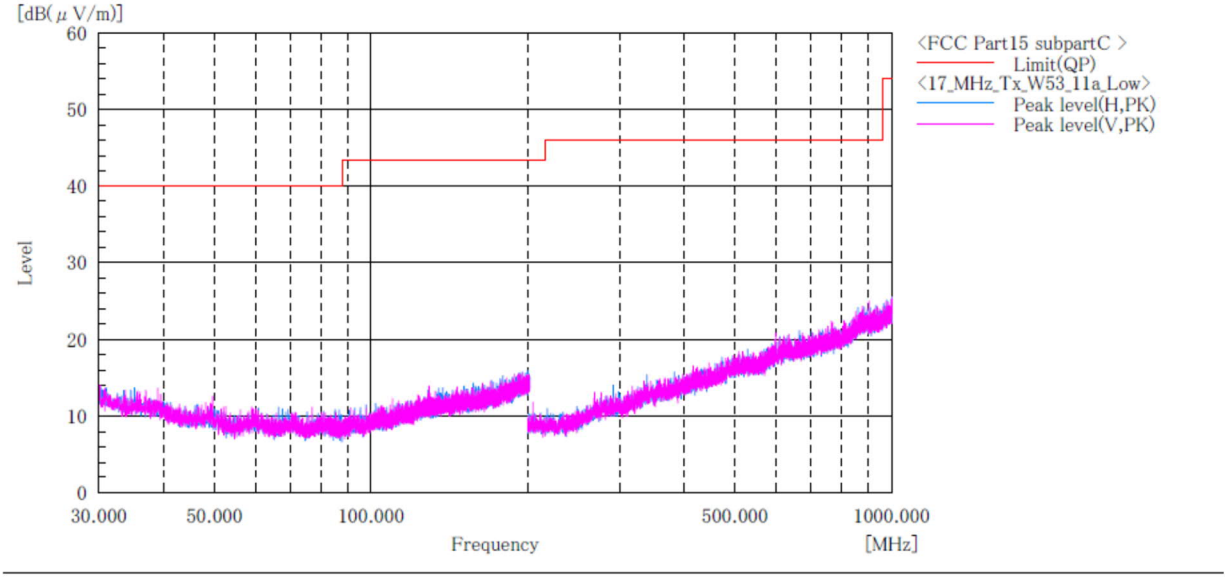
No.	Frequency	(P)	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[°]	
1	10480.000	H	43.6	11.4	55.0	68.2	13.2	100.0	251.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

Japan

[11a]
W53 / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1084	Temp,Hum	: 21.5[℃] 36.3[%]
Serial No.	: N/A	Note1	: CH:52 5260MHz
Test mode	: WLAN_11a_W53_Tx_ch:Low	Note2	:



Final Result

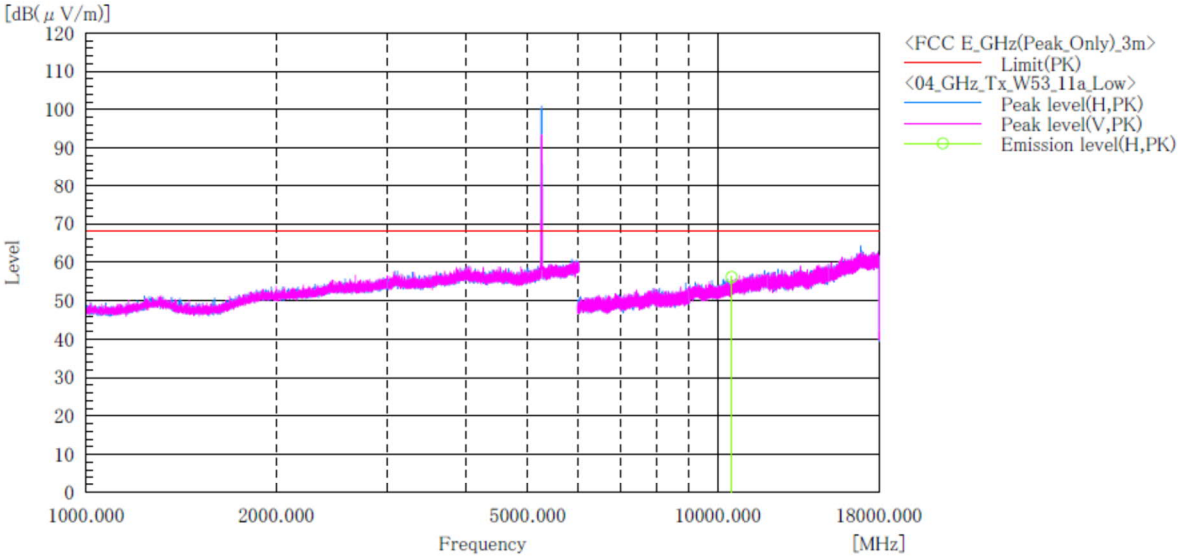
No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

Japan

[11a]
W53 / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 23.8[℃] 30.1[%]
Serial No.	: 359178870020360	Note1	: ch:52_5260MHz
Test mode	: WLAN_W53_11a_Tx_Low	Note2	:



Final Result

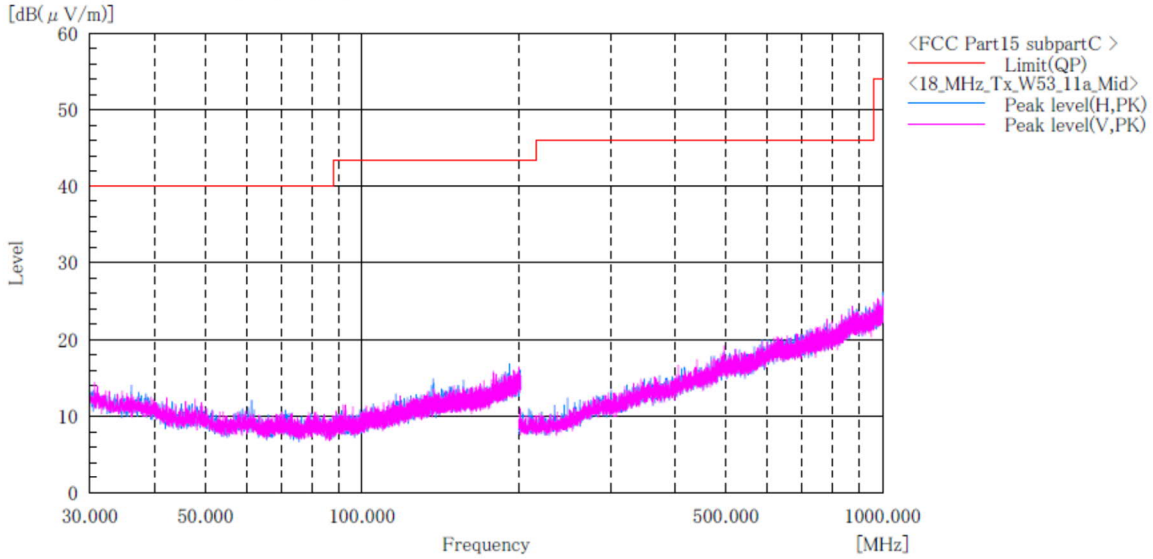
No.	Frequency	(P)	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[°]	
1	10520.000	H	44.7	11.5	56.2	68.2	12.0	100.0	258.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

Japan

[11a]
W53 / Channel Middle
BELOW 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1084	Temp,Hum	: 21.5[℃] 36.3[%]
Serial No.	: N/A	Note1	: CH:56 5280MHz
Test mode	: WLAN_11a_W53_Tx_ch:Mid	Note2	:



Final Result

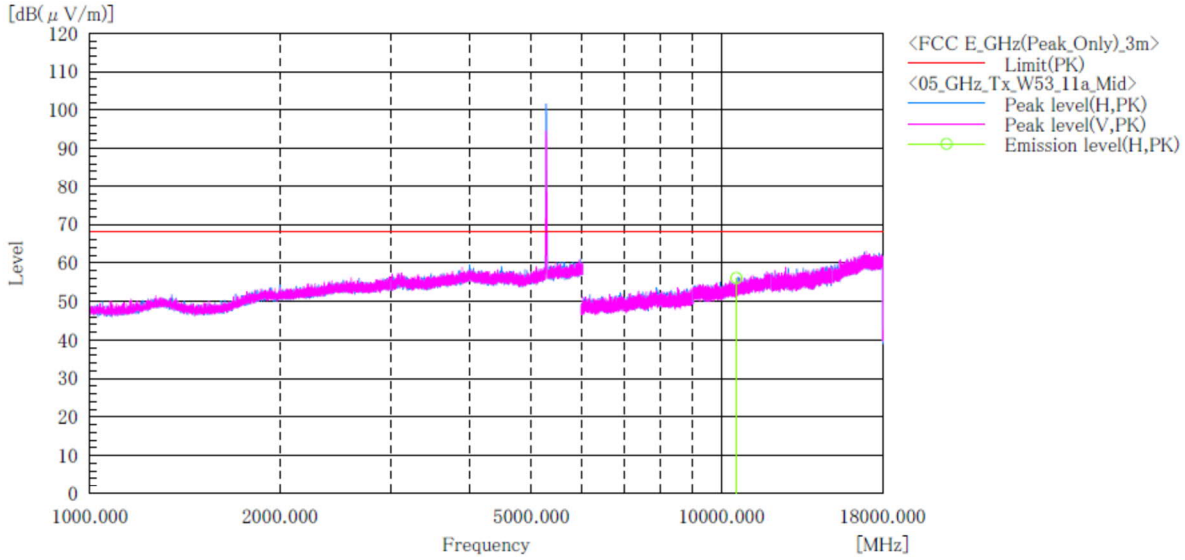
No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

Japan

[11a]
W53 / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 23.8[℃] 30.1[%]
Serial No.	: 359178870020360	Note1	: ch:56_5280MHz
Test mode	: WLAN_W53_11a_Tx_Mid	Note2	:



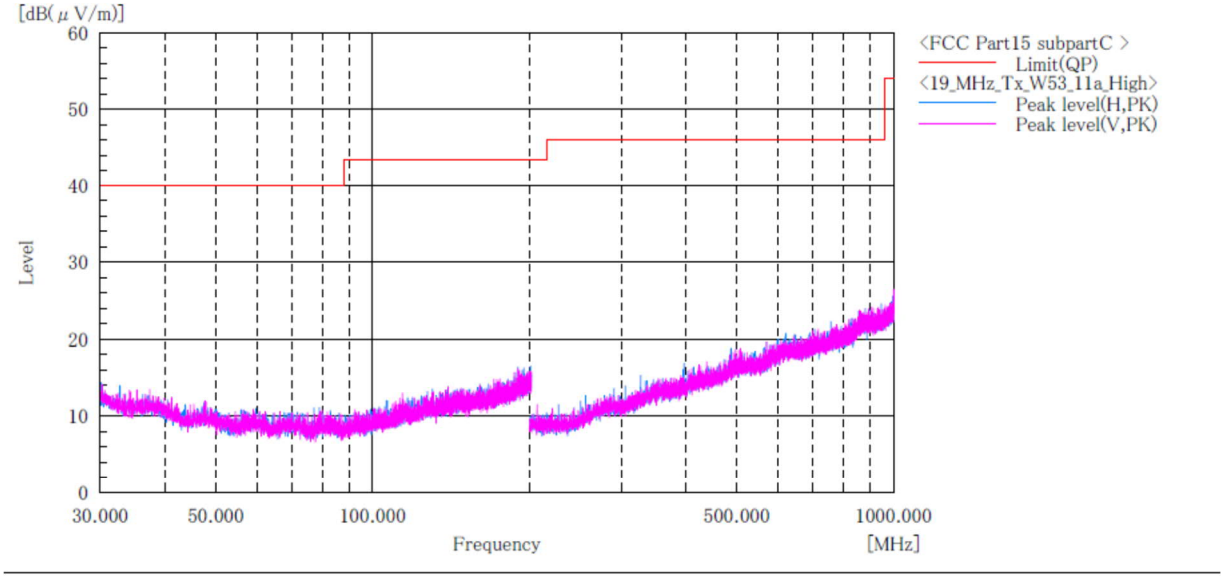
Final Result

No.	Frequency	(P)	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[°]	
1	10560.000	H	44.6	11.5	56.1	68.2	12.1	100.0	271.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

[11a]
W53 / Channel High
BELOW 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1084	Temp,Hum	: 21.5[℃] 36.3[%]
Serial No.	: N/A	Note1	: CH:64 5320MHz
Test mode	: WLAN_11a_W53_Tx_ch:High	Note2	:



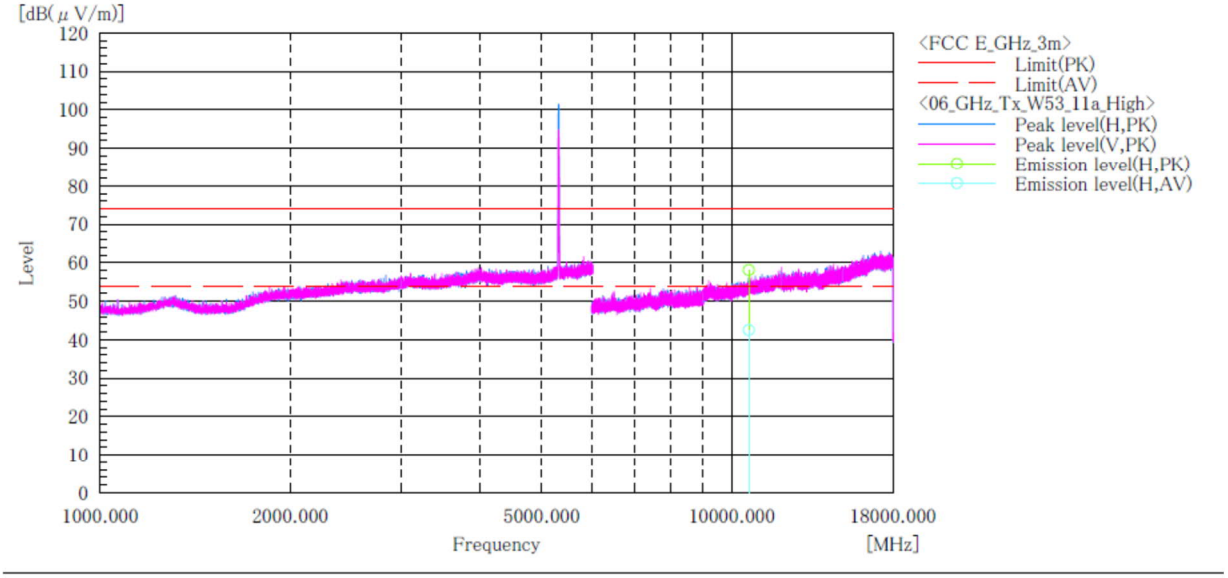
Final Result

No.	Frequency [MHz]	(P)	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

[11a]
W53 / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1084	Temp,Hum,Atm	: 22.4[℃] 40.0[%]
Serial No.	: 359178870020360	Note1	: ch:64_5320MHz
Test mode	: WLAN_W53_11a_Tx_High	Note2	:



Final Result

No.	Frequency	(P)	Reading PK	Reading AV	c.f	Result PK	Result AV	Limit PK	Limit AV	Margin PK	Margin AV	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[°]	
1	10640.000	H	46.4	30.8	11.7	58.1	42.5	74.0	54.0	15.9	11.5	100.0	262.0	

Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.