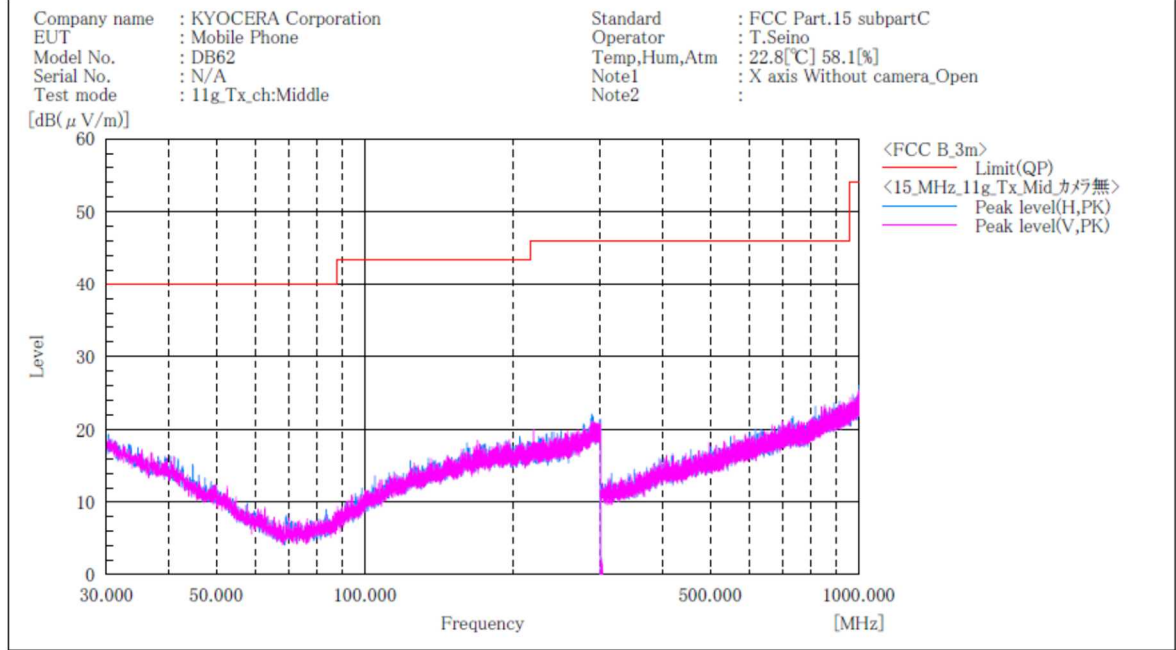




Japan

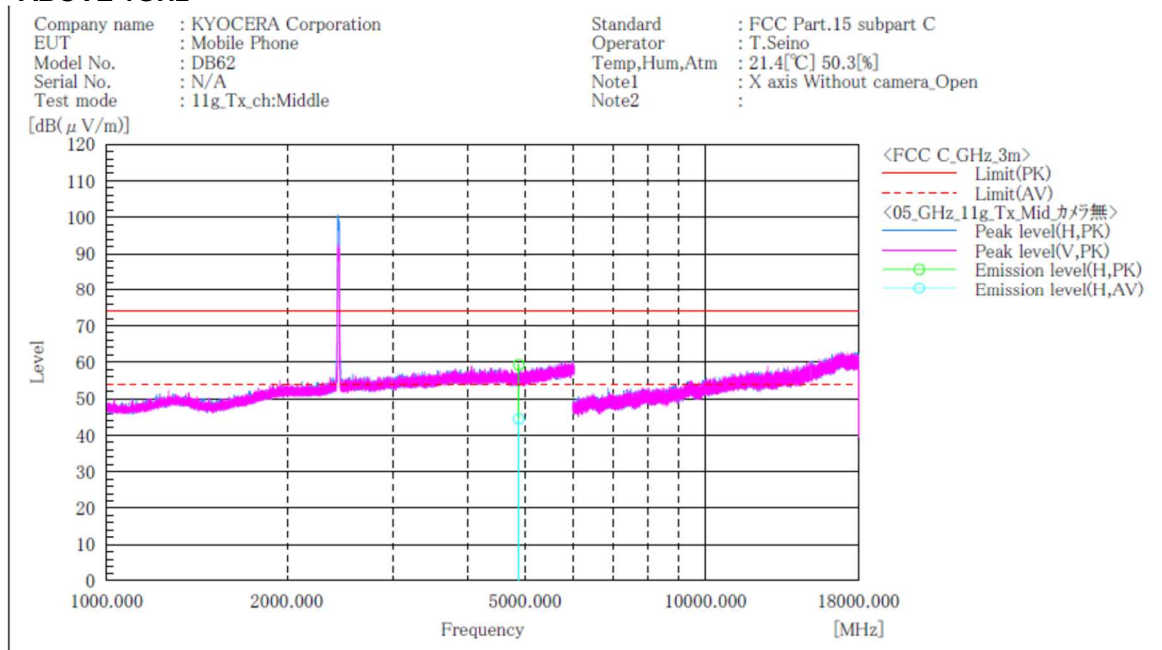
**[11g]
Channel Middle
BELOW 1GHz**



Final Result

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

- 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.

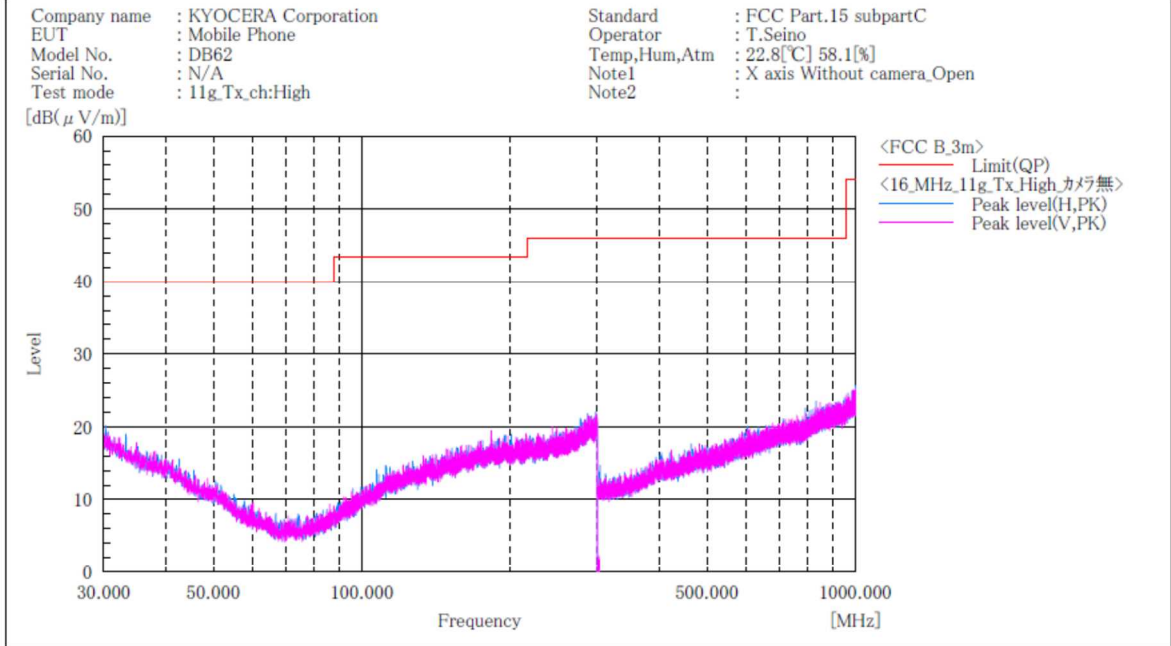
[11g]**Channel Middle
ABOVE 1GHz****Final Result**

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]
1	4874.000	H	49.0	34.2	10.3	59.3	44.5	74.0	54.0	14.7	9.5	201.0	178.0

Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
- No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.

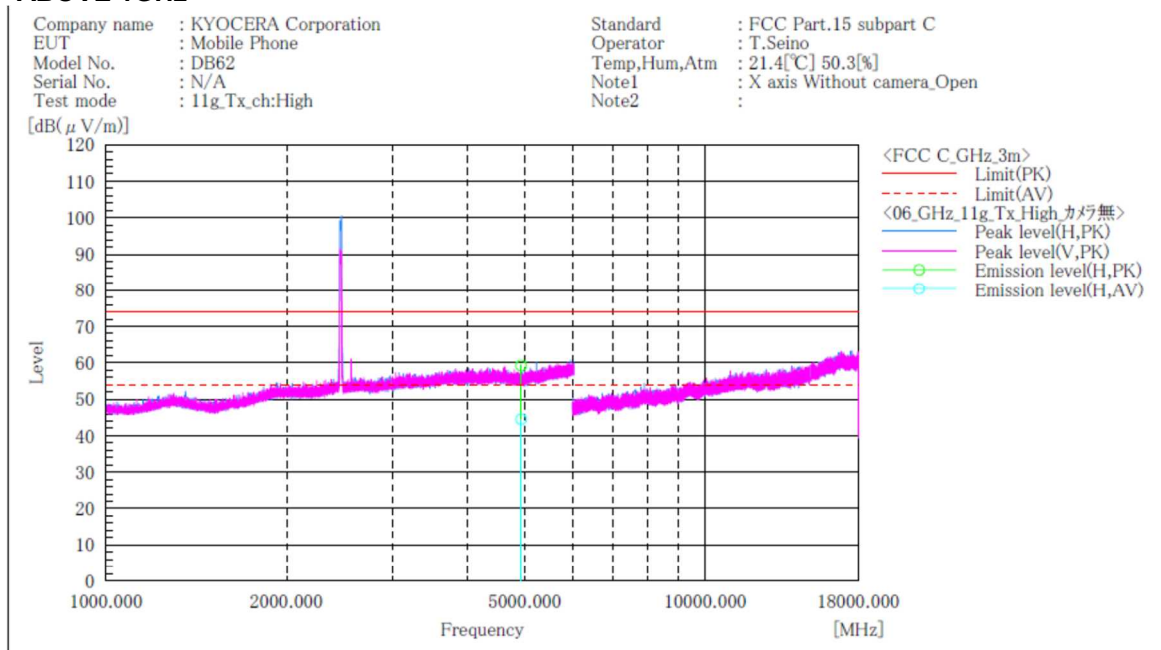
**[11g]
Channel High
BELOW 1GHz**



Final Result

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

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

**[11g]
Channel High
ABOVE 1GHz****Final Result**

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]
1	4924.000	H	48.8	34.1	10.4	59.2	44.5	74.0	54.0	14.8	9.5	193.0	171.0

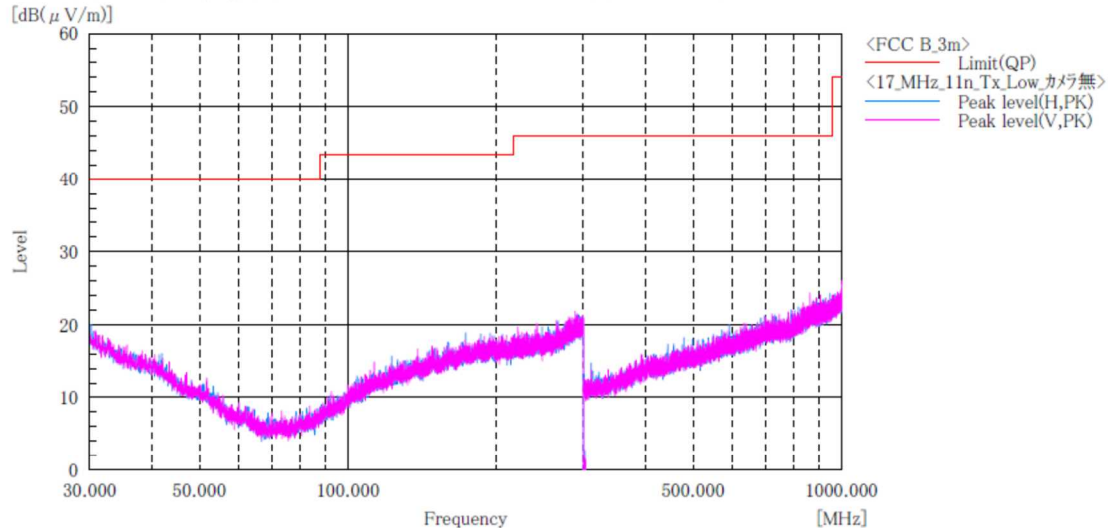
Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
- No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.

[11n(HT20)]
Channel Low
BELOW 1GHz

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : DB62
Serial No. : N/A
Test mode : 11n_Tx_ch:Low

Standard : FCC Part.15 subpartC
Operator : T.Seino
Temp,Hum,Atm : 22.8[°C] 58.1[%]
Note1 : X axis Without camera_Open
Note2 :



Final Result

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

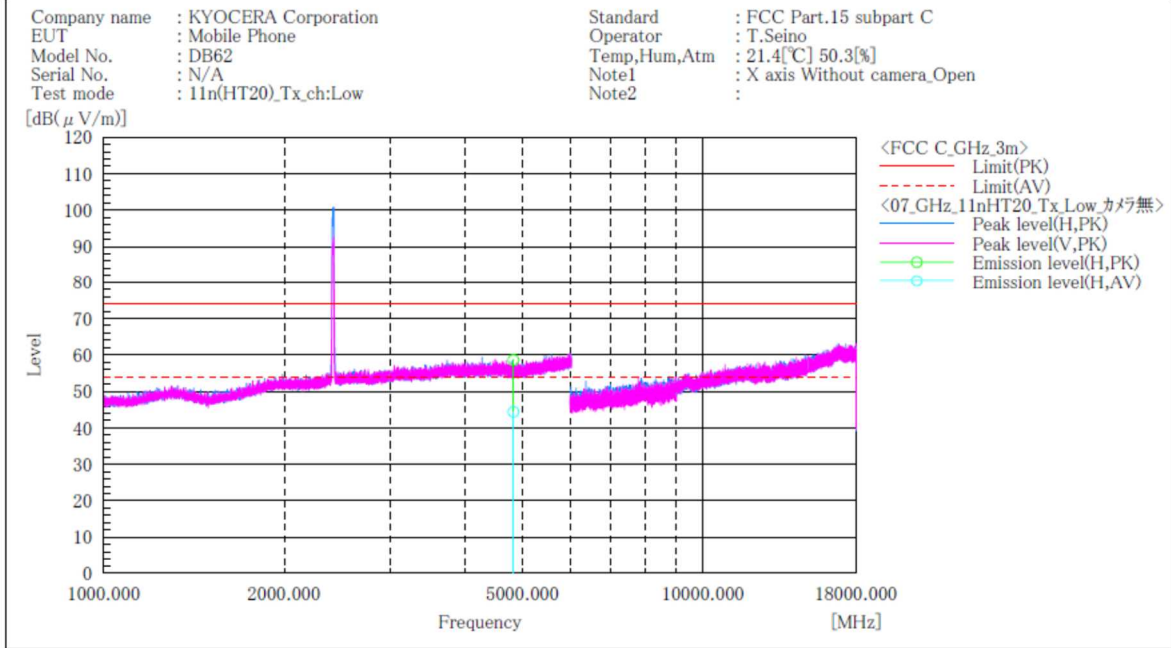
Note:

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

[11n(HT20)]
Channel Low
ABOVE 1GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]
1	4824.000	H	48.5	34.3	10.1	58.6	44.4	74.0	54.0	15.4	9.6	195.0	182.0

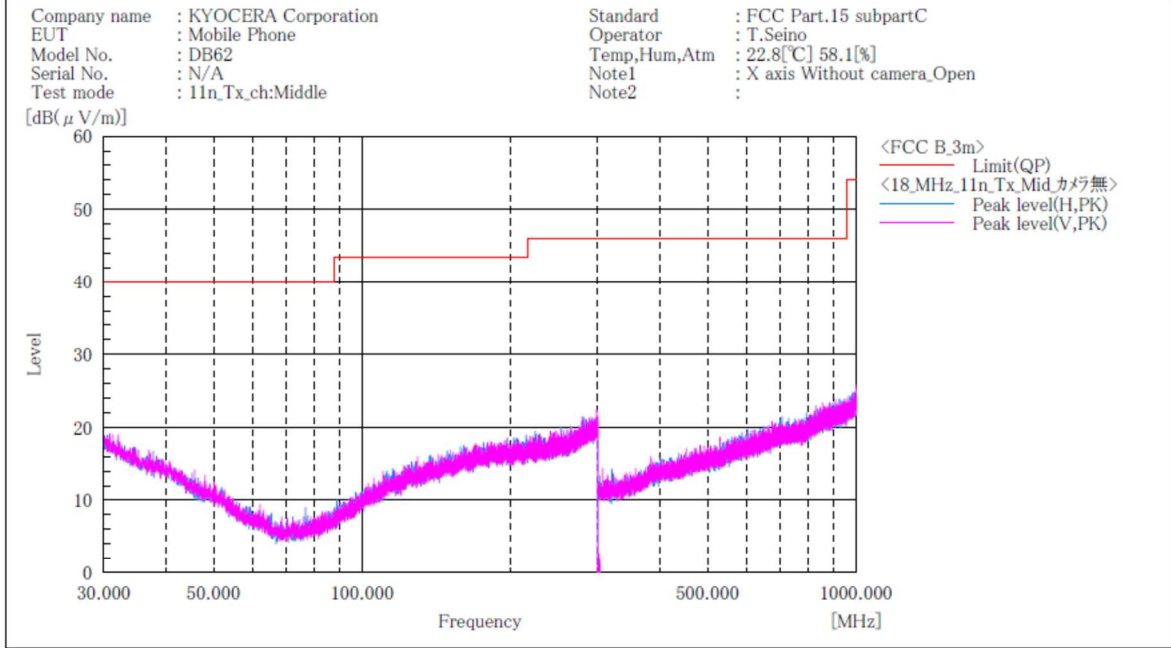
Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
- No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.



Japan

[11n(HT20)]
Channel Middle
BELOW 1GHz



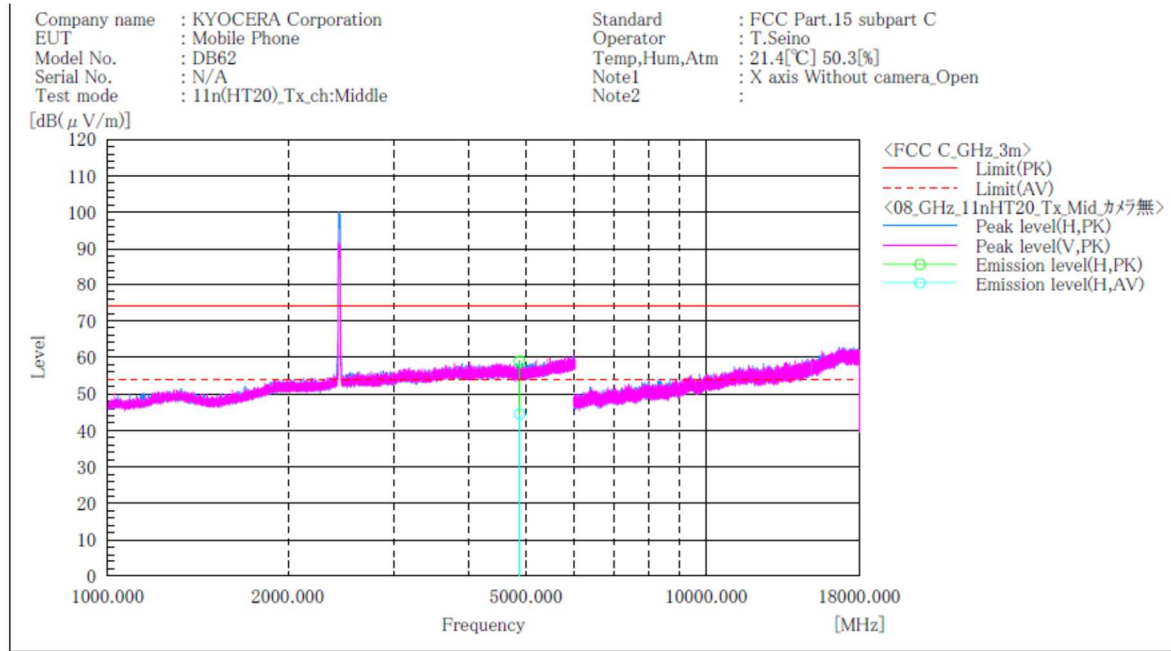
Final Result

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

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.

[11n(HT20)]
Channel Middle
ABOVE 1GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]
1	4874.000	H	48.6	34.2	10.3	58.9	44.5	74.0	54.0	15.1	9.5	498.0	166.0

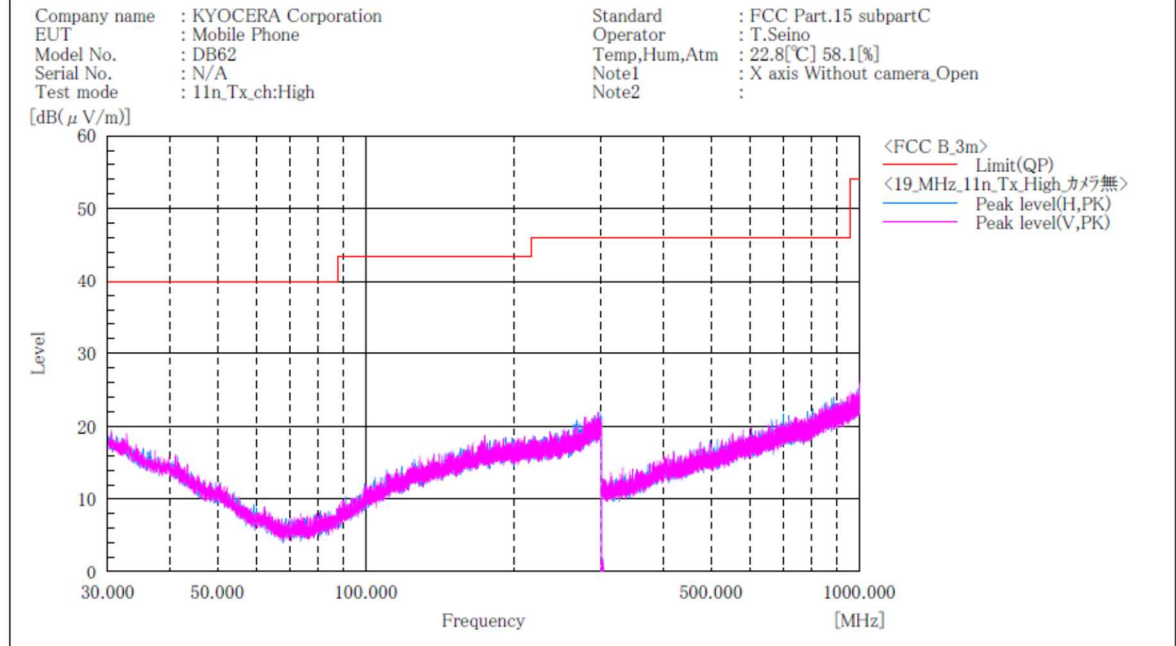
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.



Japan

[11n(HT20)]
Channel High
BELOW 1GHz



Final Result

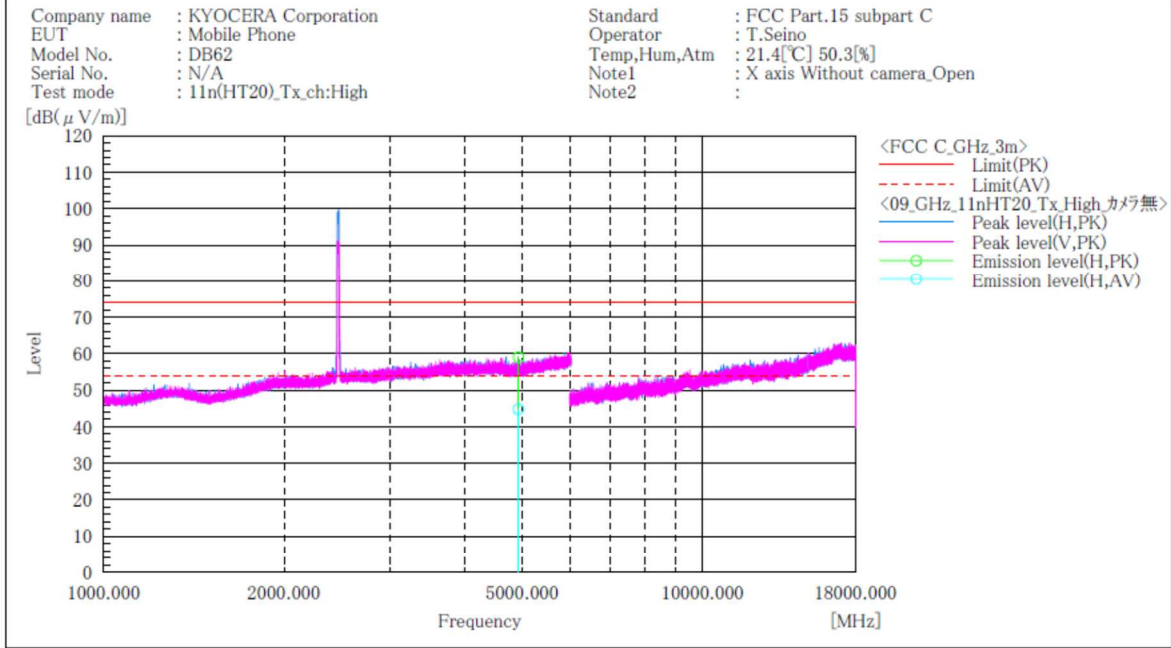
No.	Frequency (P)	c. f	Height	Angle
	[MHz]	[dB(1/m)]	[cm]	[°]

- 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

[11n(HT20)]
Channel High
ABOVE 1GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]
1	4924.000	H	48.6	34.4	10.4	59.0	44.8	74.0	54.0	15.0	9.2	202.0	168.0

Note:

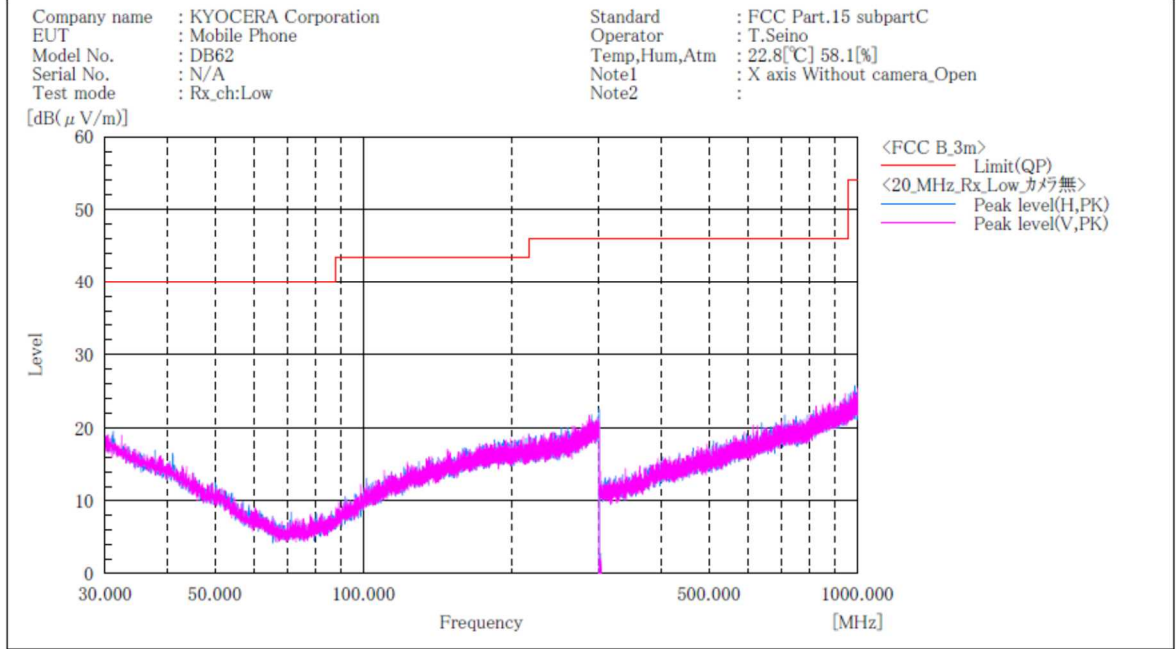
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.



Japan

4.5.4.4 Receive mode - With camera

Channel Low
BELOW 1GHz

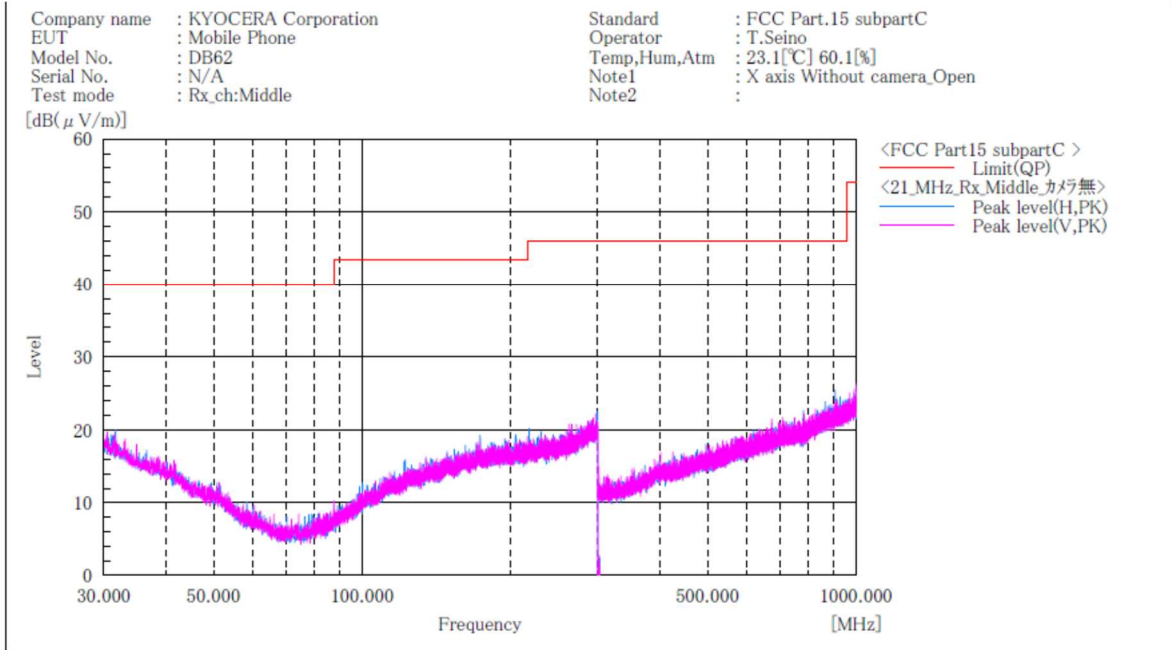


Final Result

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

- Note:
- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
 - No emission were detected in frequency range 9kHz to 1000MHz and 1GHz to 25GHz at the 3 meters distance.

**Channel Middle
BELOW 1GHz**



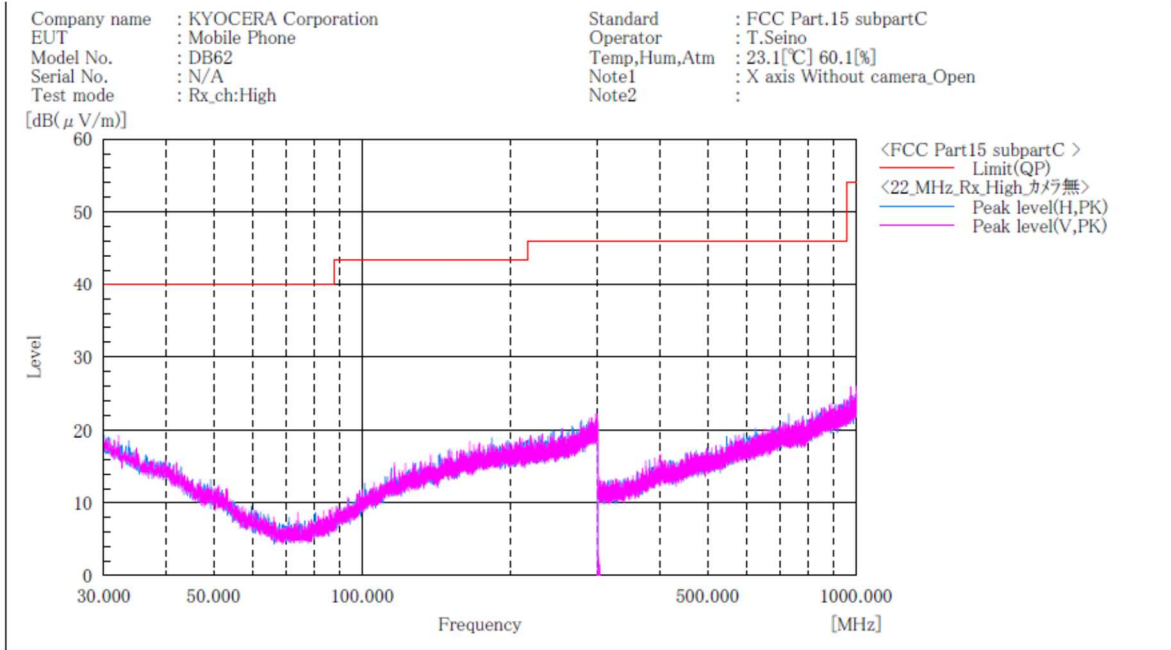
Final Result

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

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz and 1GHz to 25GHz at the 3 meters distance.

**Channel High
BELOW 1GHz**



Final Result

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

Note:

- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
- No emission were detected in frequency range 9kHz to 1000MHz and 1GHz to 25GHz at the 3 meters distance.

4.6 Restricted Band of Operation

4.6.1 Measurement procedure

[FCC 15.247(d), 15.205, 15.209, KDB 558074 D01 v05r02, Section 8.6]

Test was applied by following conditions.

Test method	: ANSI C63.10
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
Spectrum analyzer setting	
- Peak	: RBW=1 MHz, VBW=3 MHz, Span=Arbitrary setting, Sweep=auto
- Average	: RBW=1 MHz, VBW=10Hz, Span=0 Hz, Sweep=auto Display mode=Linear

Average Measurement Setting [VBW]

Mode	Duty Cycle (%)	T _{on} (us)	T _{off} (us)	Determined VBW Setting
IEEE802.11b	99.22	1024	8	10Hz (Duty Cycle ≥ 98%)
IEEE802.11g	99.42	1364	8	10Hz (Duty Cycle ≥ 98%)
IEEE802.11n(HT20)	99.22	1272	10	10Hz (Duty Cycle ≥ 98%)

Although these tests were performed other than open area test site, adequate comparison measurements

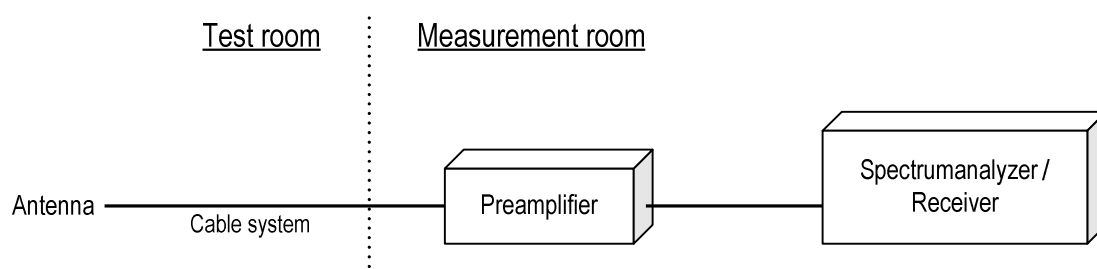
were confirmed against 30 m open area test site.

Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 937606.

Radiated emission measurements are performed at 3m distance with the broadband antenna (Double ridged guide 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.

The EUT is Placed on a turntable, which is 0.8m/1.5m 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.

- Test configuration



4.6.2 Limit

Emission at the boundary of the restricted band provided by 15.205 shall be lower than 15.209 limit.

4.6.3 Measurement Result

[IEEE802.11b、IEEE802.11g、IEEE802.11n (HT20)]

Channel	Frequency [MHz]	Results Chart	Result
Low	2412	See the Trace Data	Pass
High	2462	See the Trace Data	Pass

4.6.4 Test data

Date : 9-August-2019
 Temperature : 21.4 [°C]
 Humidity : 57.9 [%]
 Test place : Shielded room No.4

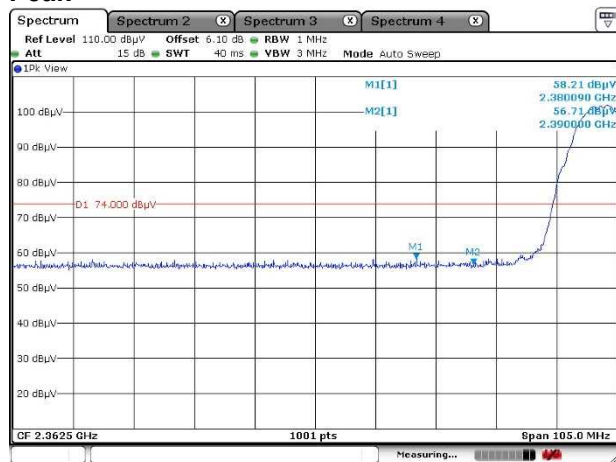
Test engineer : Tadahiro Seino

Date : 10-August-2019
 Temperature : 21.4 [°C]
 Humidity : 63.8 [%]
 Test place : Shielded room No.4

Test engineer : Tadahiro Seino

[IEEE802.11b - With camera]

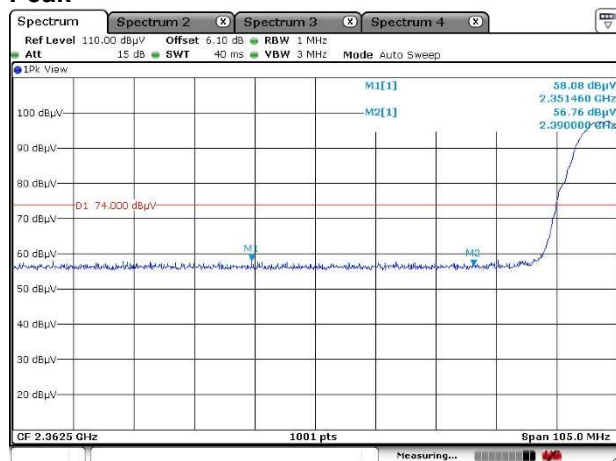
Channel Low Horizontal Peak



Average



Vertical Peak



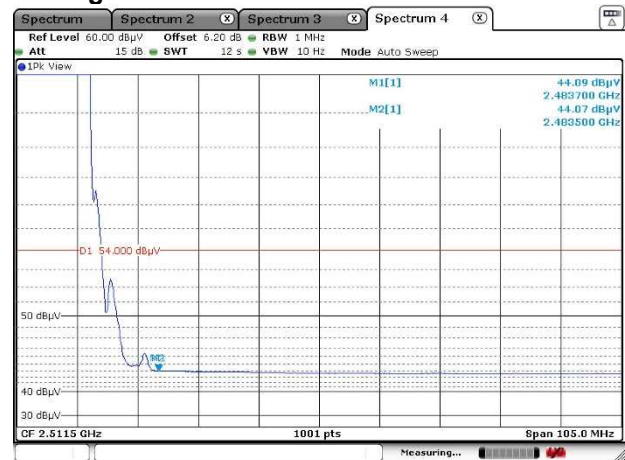
Average



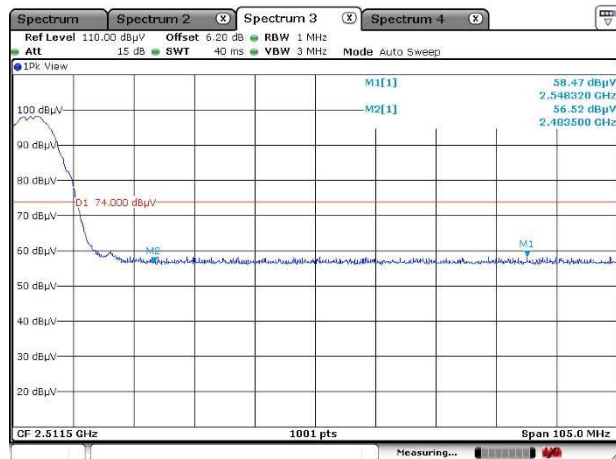
Channel High Horizontal Peak



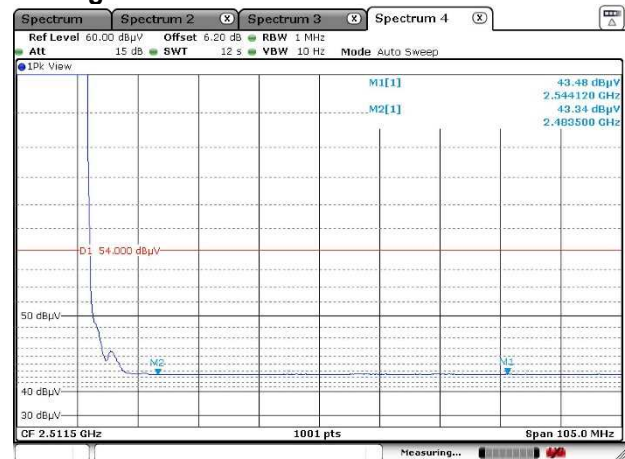
Average



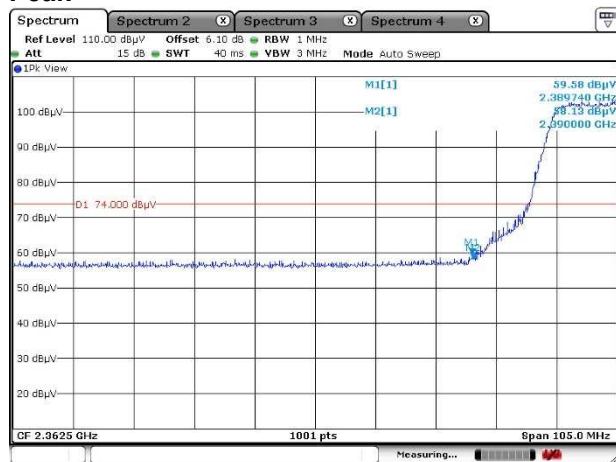
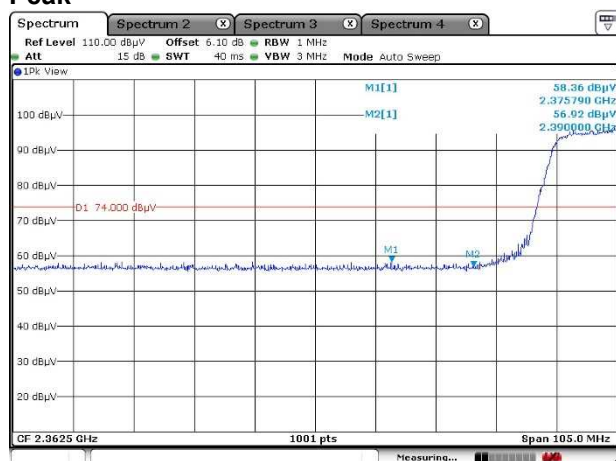
Vertical Peak



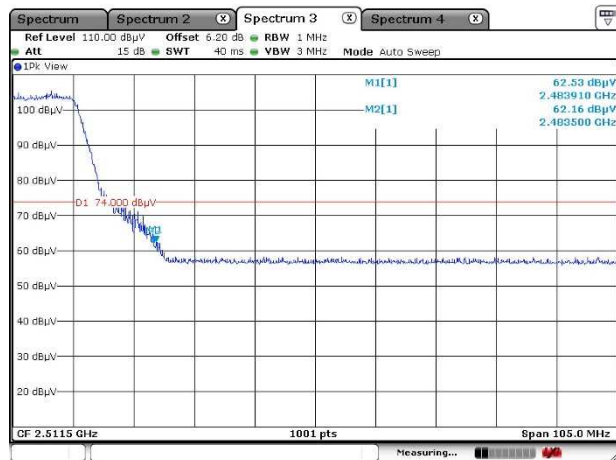
Average



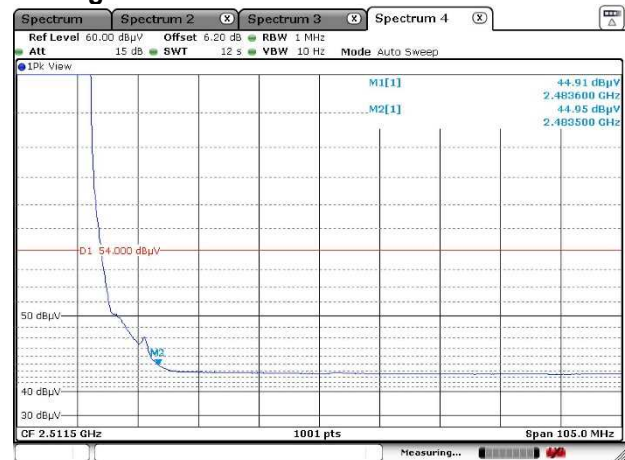
[IEEE802.11g - With camera]

**Channel Low
Horizontal
Peak****Average****Vertical
Peak****Average**

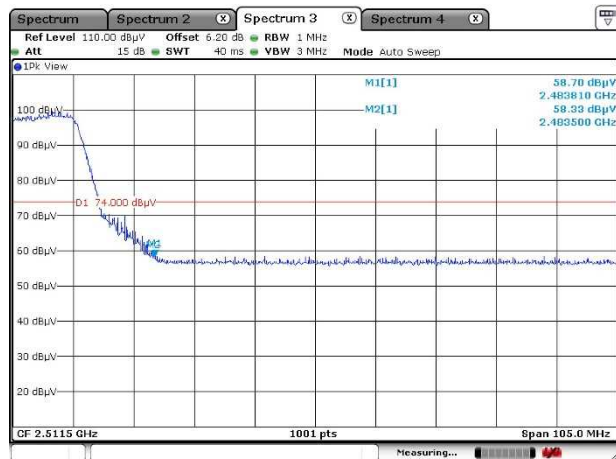
Channel High Horizontal Peak



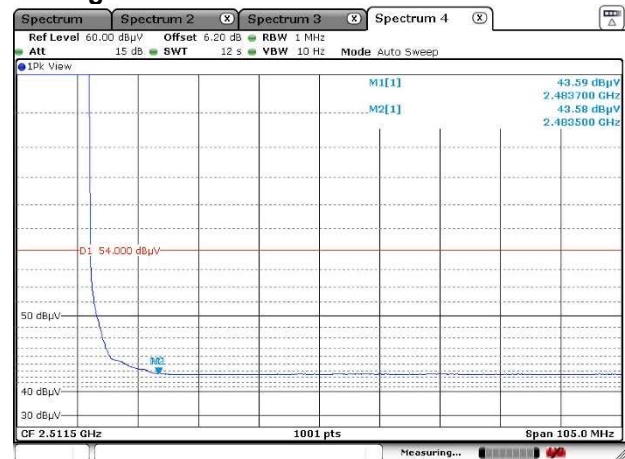
Average



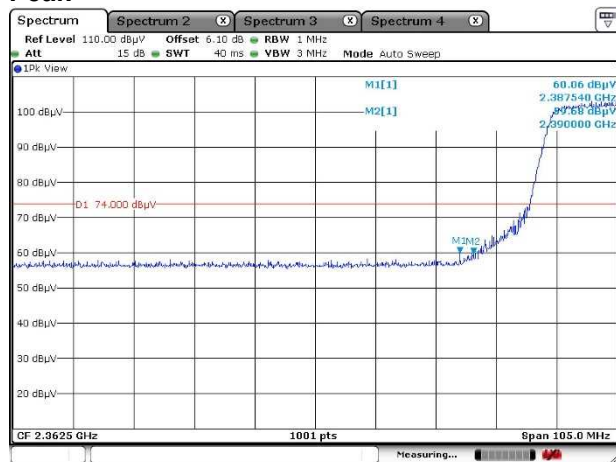
Vertical Peak



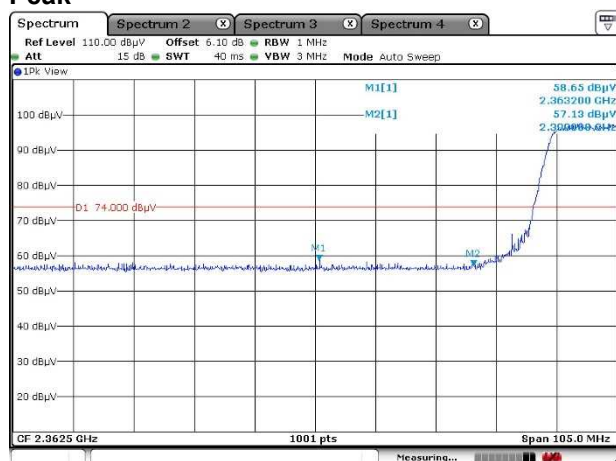
Average



[IEEE802.11n (HT20) - With camera]

Channel Low
Horizontal
Peak

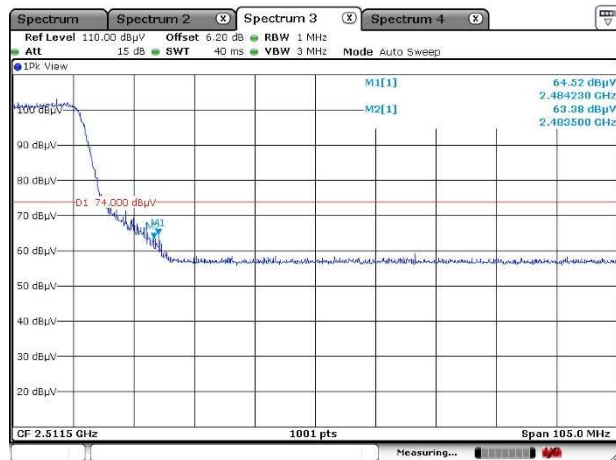
Average

Vertical
Peak

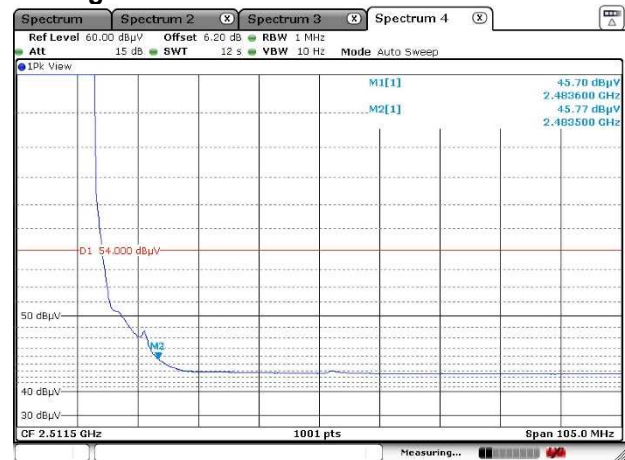
Average



Channel High Horizontal Peak



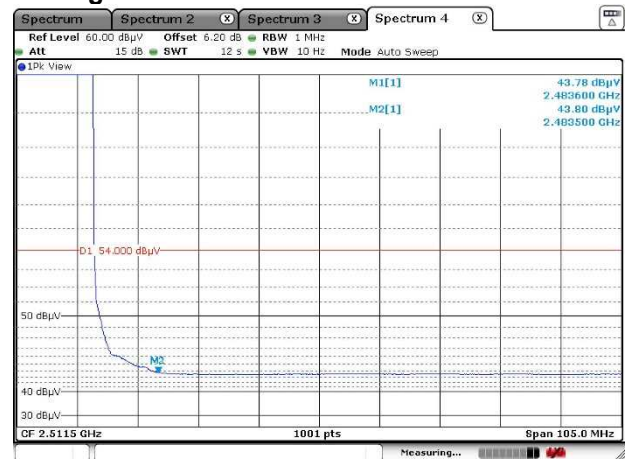
Average



Vertical Peak

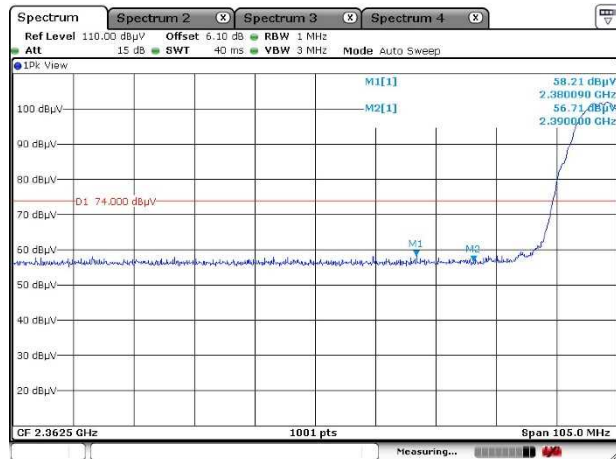


Average



[IEEE802.11b - Without camera]

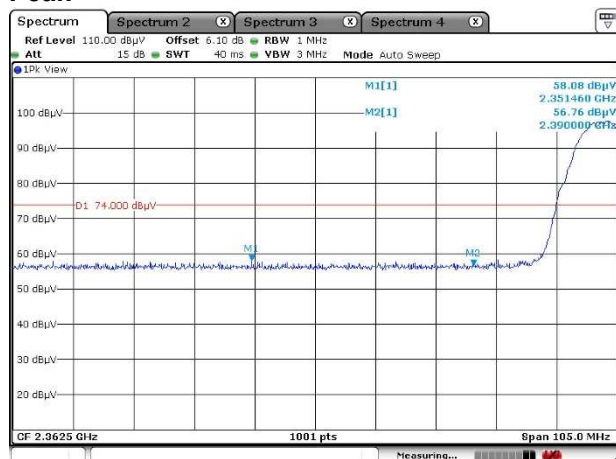
Channel Low Horizontal Peak



Average



Vertical Peak



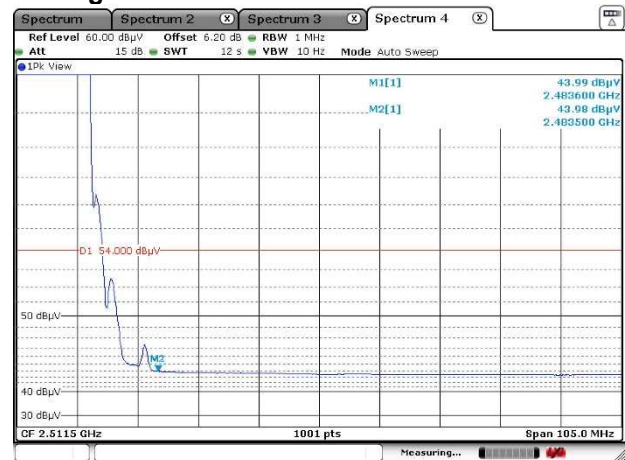
Average



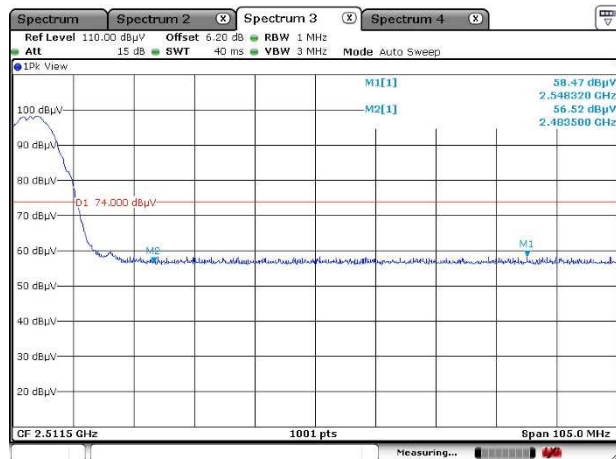
Channel High Horizontal Peak



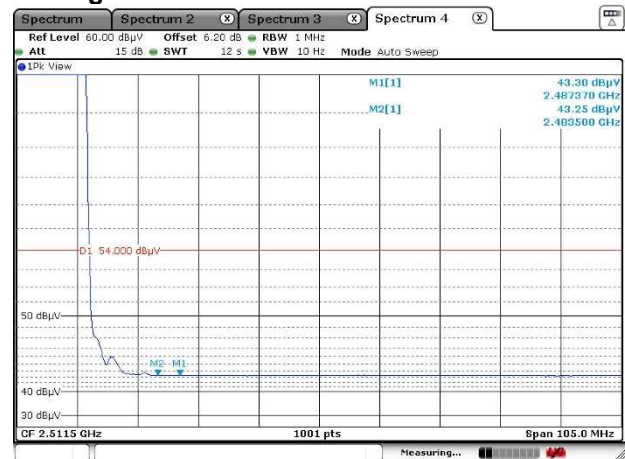
Average



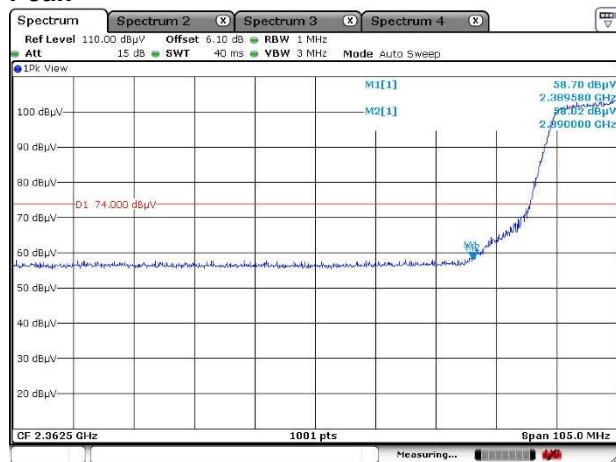
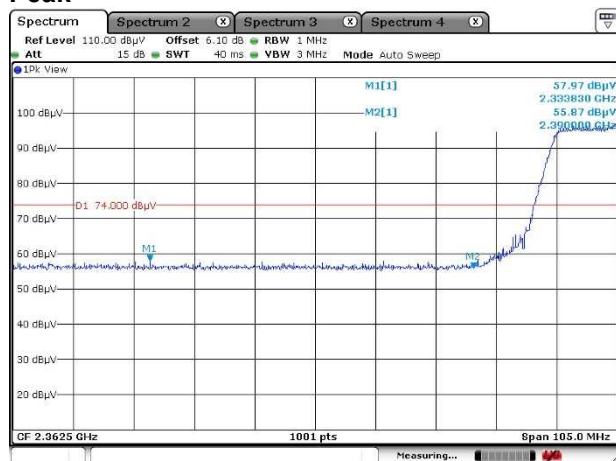
Vertical Peak



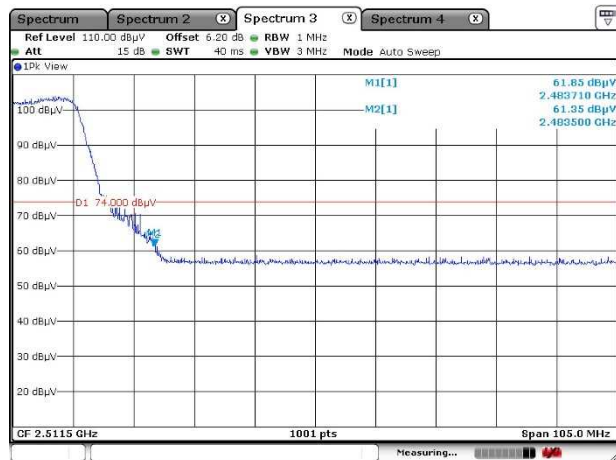
Average



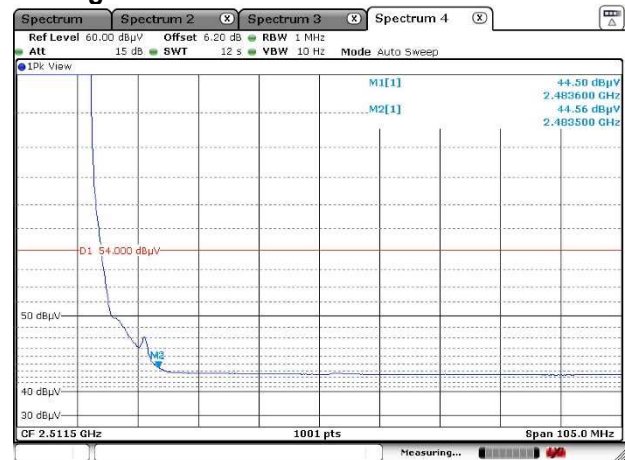
[IEEE802.11g - Without camera]

**Channel Low
Horizontal
Peak****Average****Vertical
Peak****Average**

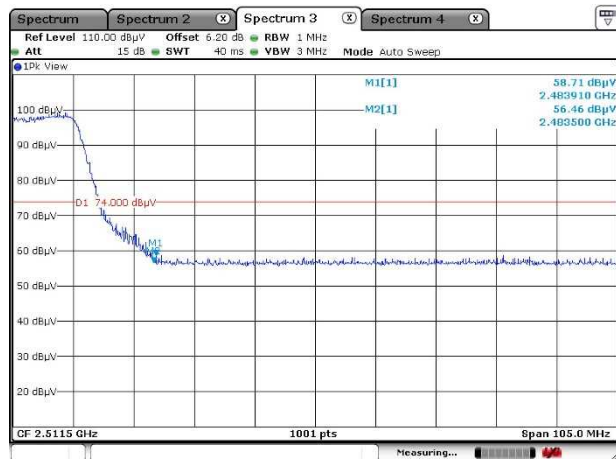
Channel High Horizontal Peak



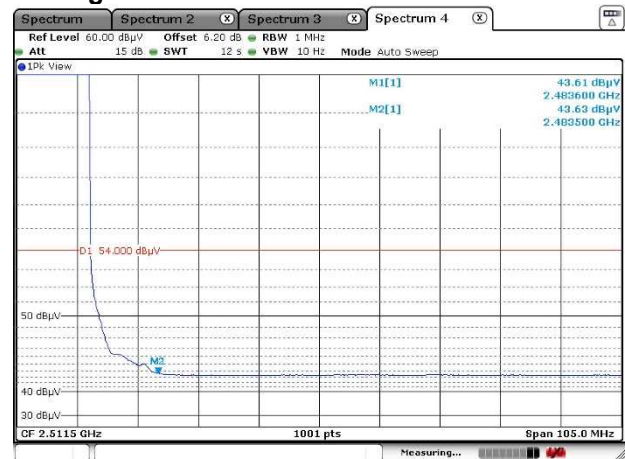
Average



Vertical Peak

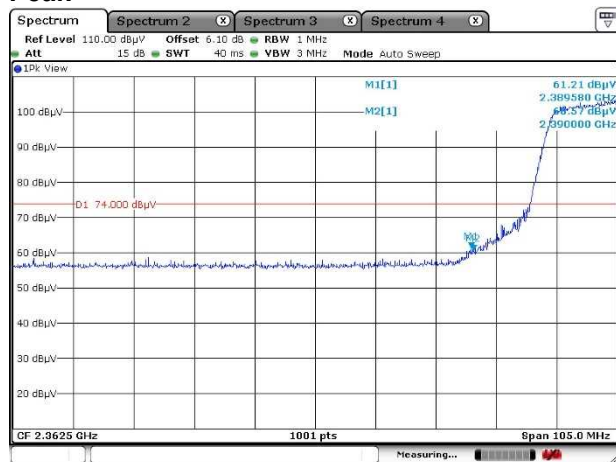


Average



[IEEE802.11n (HT20) - Without camera]

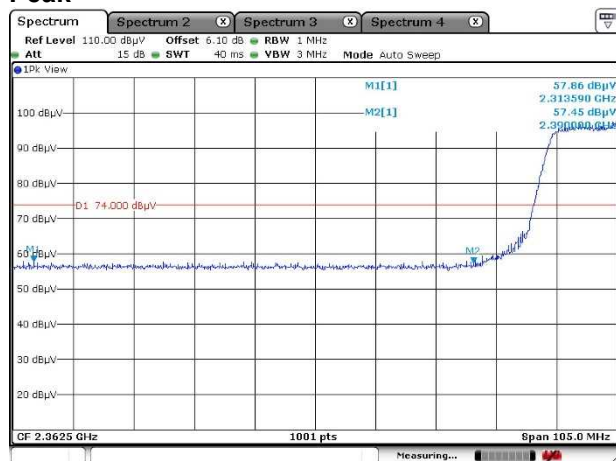
Channel Low Horizontal Peak



Average



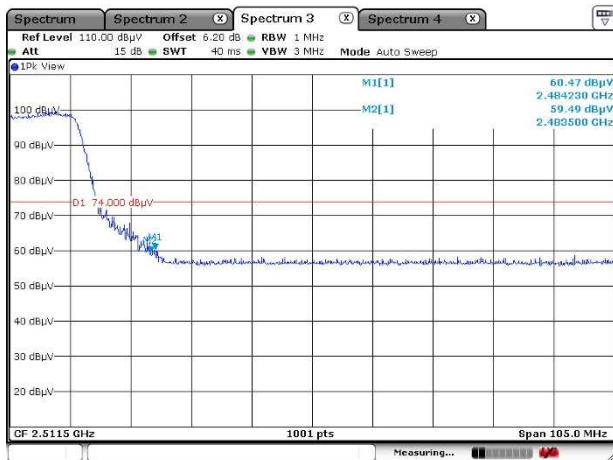
Vertical Peak



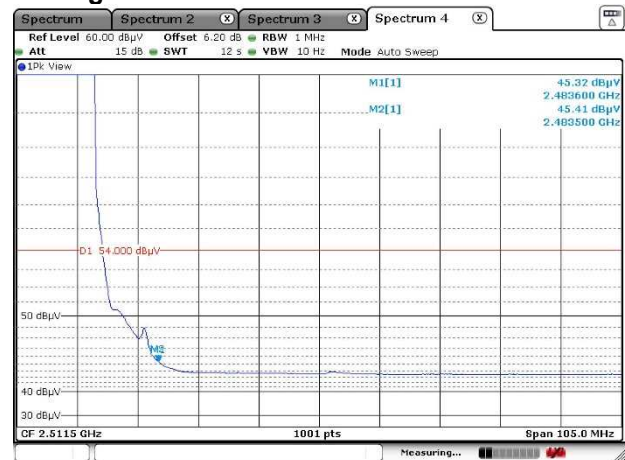
Average



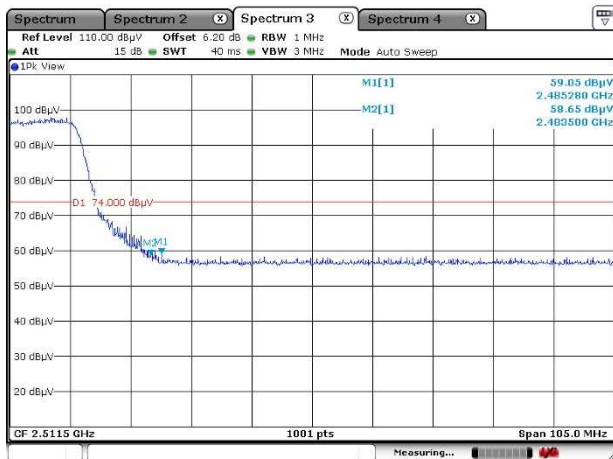
Channel High Horizontal Peak



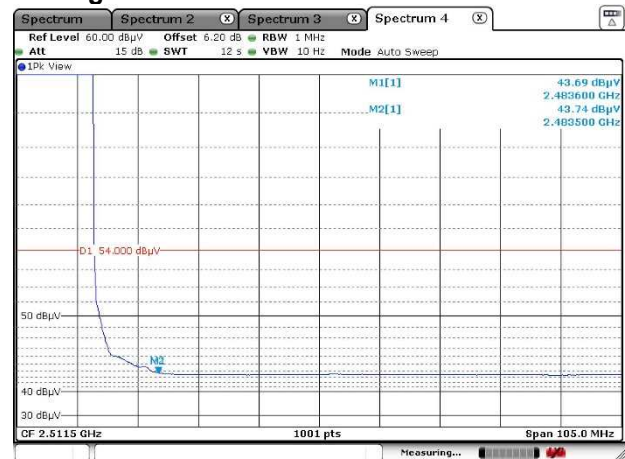
Average



Vertical Peak



Average



4.7 Transmitter Power Spectral Density

4.7.1 Measurement procedure

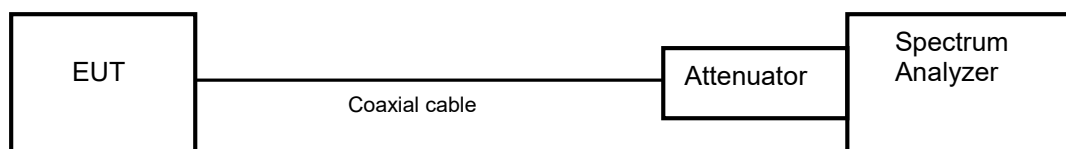
[FCC 15.247(e), KDB 558074 D01 v05r02, Section 8.4]

The peak power is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- a) Span = 1.5 times the 6 dB bandwidth.
- b) RBW = 3kHz - 100kHz.
- c) VBW $\geq 3 \times$ RBW.
- d) Sweep time = auto-couple.
- e) Detector = peak.
- f) Trace mode = max hold.

- Test configuration



4.7.2 Limit

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band.

4.7.3 Measurement result

Date : 23-August-2019

Temperature : 24.5 [°C]

Humidity : 56.0 [%]

Test place : Shielded room No.4

Test engineer :

Tadahiro Seino

[IEEE802.11b]

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dBm)	Result
Low	2412	-17.81	10.58	-7.23	8.00	15.23	PASS
Middle	2437	-18.95	10.58	-8.37	8.00	16.37	PASS
High	2462	-18.12	10.58	-7.54	8.00	15.54	PASS

Calculation;

Transmitter Power Spectral Density Level (Margin) = Limit – (Reading + Factor)

[IEEE802.11g]

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dBm)	Result
Low	2412	-25.15	10.58	-14.57	8.00	22.57	PASS
Middle	2437	-25.89	10.58	-15.31	8.00	23.31	PASS
High	2462	-24.68	10.58	-14.10	8.00	22.10	PASS

Calculation;

Transmitter Power Spectral Density Level (Margin) = Limit – (Reading + Factor)

[IEEE802.11n (HT20)]

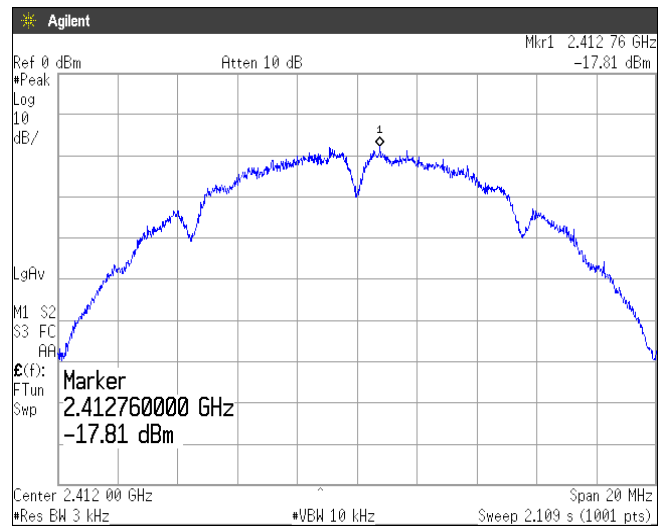
Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dBm)	Result
Low	2412	-25.54	10.58	-14.96	8.00	22.96	PASS
Middle	2437	-24.52	10.58	-13.94	8.00	21.94	PASS
High	2462	-24.68	10.58	-14.10	8.00	22.10	PASS

Calculation;

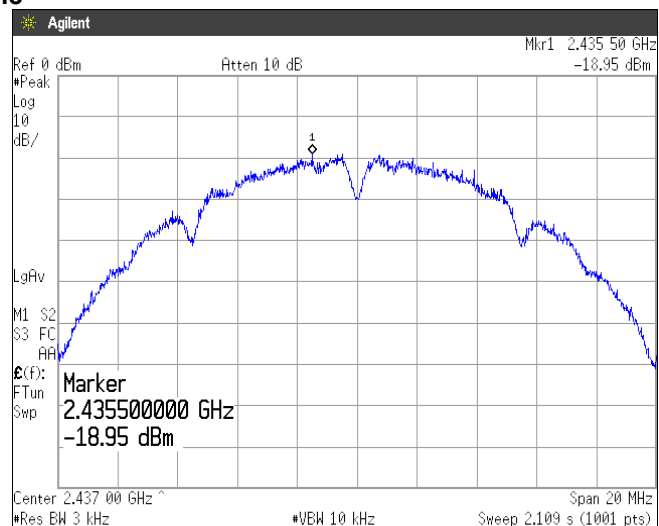
Transmitter Power Spectral Density Level (Margin) = Limit – (Reading + Factor)

10.4 Trace data [IEEE802.11b]

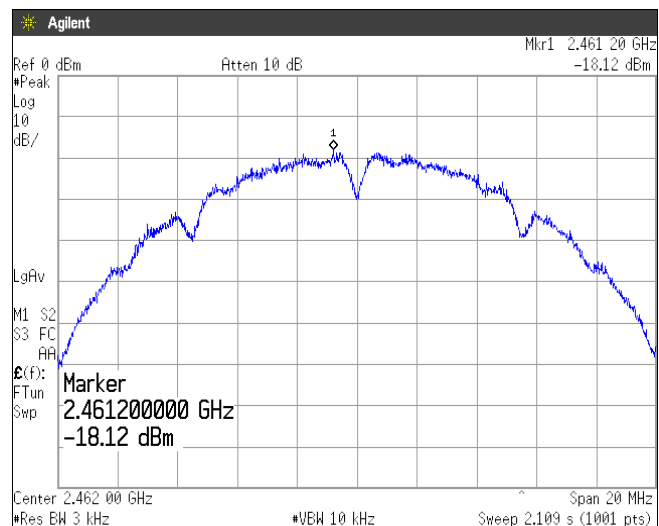
Channel Low



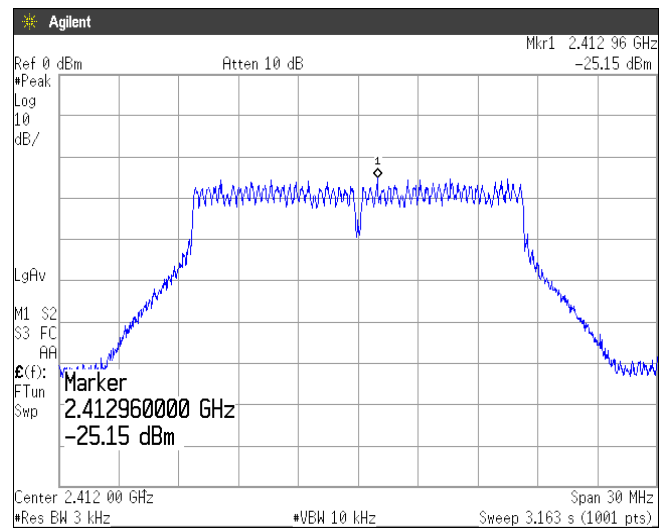
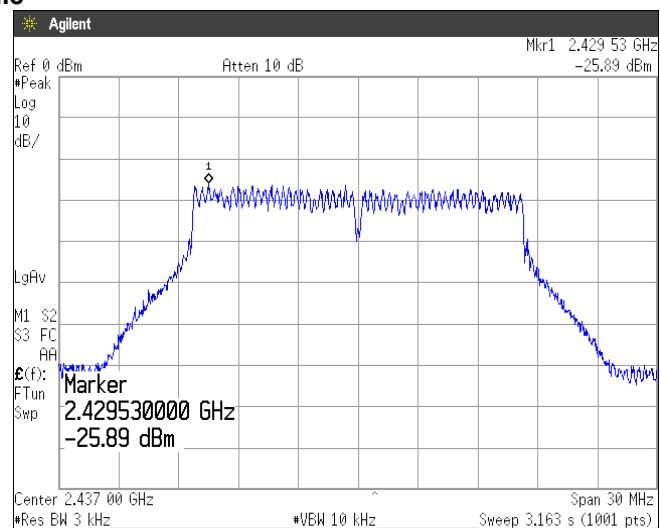
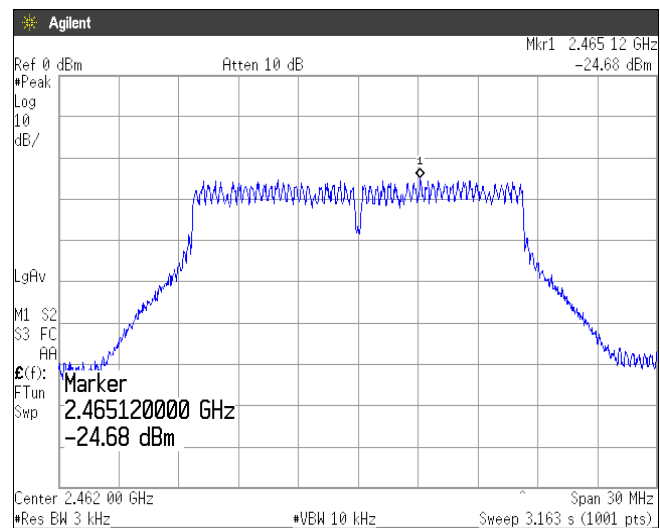
Channel Middle



Channel High

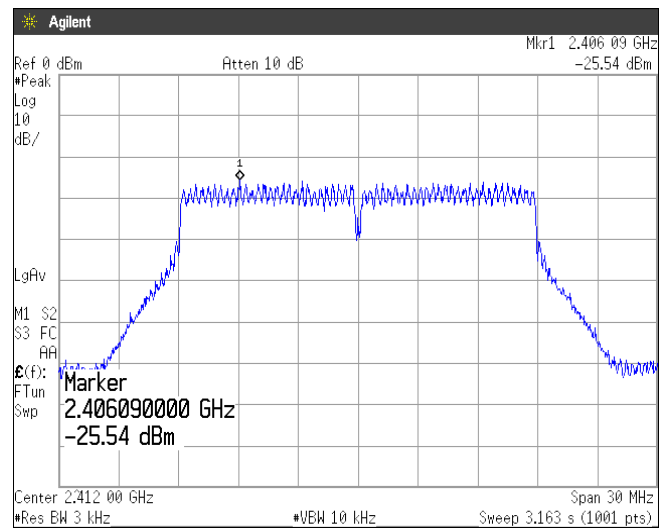


[IEEE802.11g]

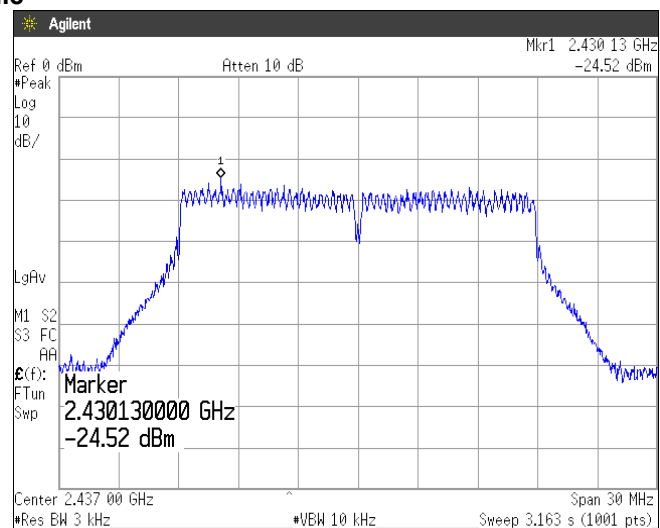
Channel Low**Channel Middle****Channel High**

[IEEE802.11n (HT20)]

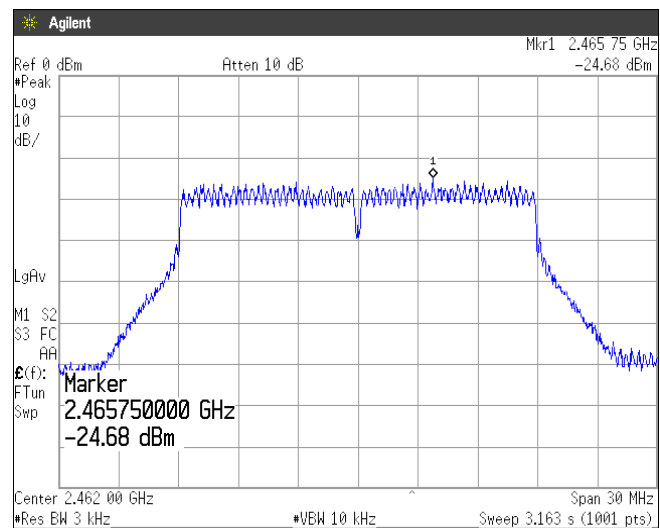
Channel Low



Channel Middle



Channel High



4.8 AC Power Line Conducted Emissions

4.8.1 Measurement procedure

[FCC 15.207]

Test was applied by following conditions.

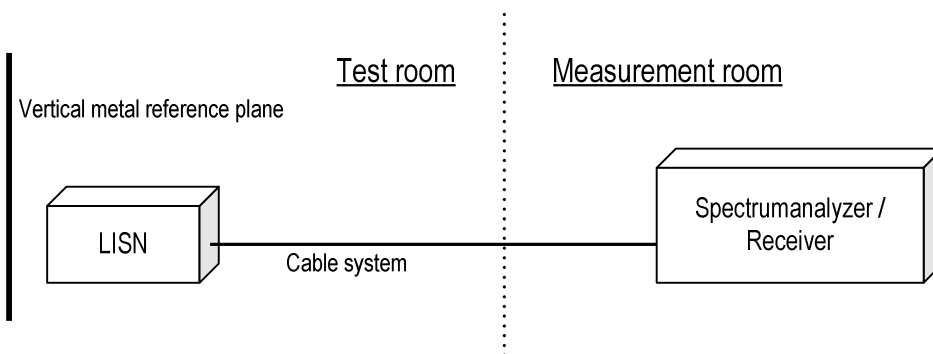
Test method	: ANSI C63.10
Frequency range	: 0.15 MHz to 30 MHz
Test place	: 3m Semi-anechoic chamber
EUT was placed on	: FRP table / (W) 2.0 × (D) 1.0 × (H) 0.8 m
Vertical Metal Reference Plane	: (W) 2.0 × (H) 2.0 m, 0.4 m away from EUT
Test receiver setting	
- Detector	: Quasi-peak, Average
- Bandwidth	: 9 kHz

EUT and peripherals are connected to 50Ω/50 μH Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



4.8.2 Calculation method

Emission level = Reading + (LISN. Factor + Cable system loss)

Margin = Limit – Emission level

Example:

Limit @ 0.403 MHz: 57.8 dBμV(Quasi-peak)
: 47.8 dBμV(Average)

(Quasi peak) Reading = 22.7 dBμV c.f. = 10.4 dB

Emission level = 22.7 + 10.4 = 33.1 dBμV

Margin = 57.8 – 33.1 = 24.7 dB

(Average) Reading = 6.5 dBμV c.f. = 10.4 dB

Emission level = 6.5 + 10.4 = 16.9 dBμV

Margin = 47.8 – 16.9 = 30.9 dB

4.8.3 Limit

Frequency [MHz]	Limit	
	QP [dBuV]	AV [dBuV]
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

*: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

4.8.4 Test data

Date : 8-August-2019

Temperature : 23.3 [°C]

Humidity : 56.9 [%]

Test place : 3m Semi-anechoic chamber

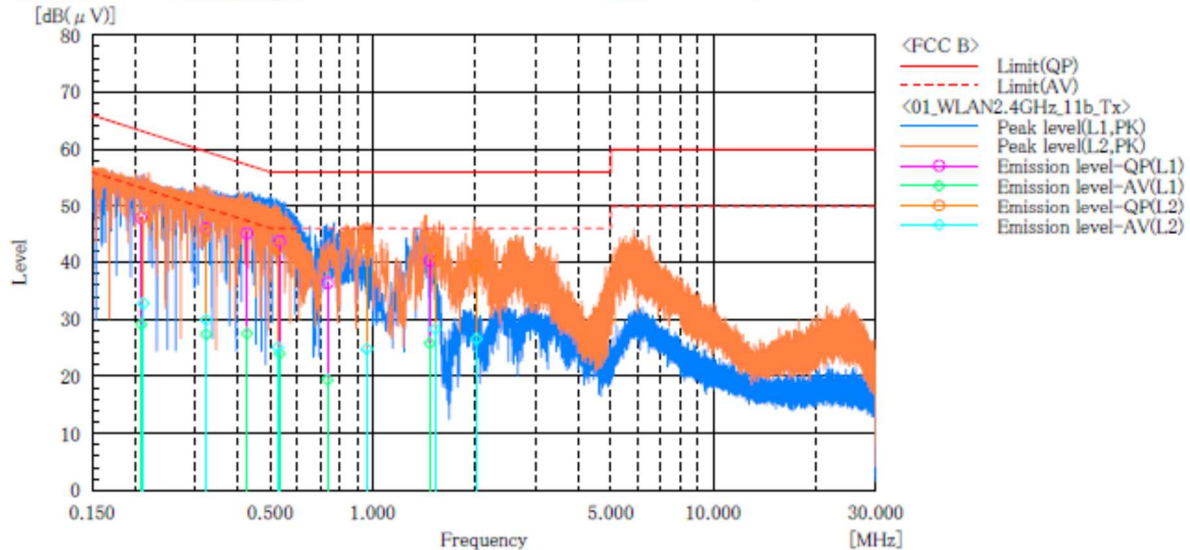
Test engineer :

Tadahiro Seino

[With camera]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : DB62
 Serial No. : N/A
 Test mode : WLAN_11b_Tx

Standard : FCC Part.15 Class C
 Operator : T.Seino
 Temp,Hum,Atm : 23.3[°C] 56.9[%]
 Note1 : With Camera
 Note2 :

**Final Result****--- L1 Phase ---**

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.209	37.4	18.7	10.4	47.8	29.1	63.2	53.2	15.4	24.1
2	0.324	35.5	17.0	10.4	45.9	27.4	59.6	49.6	13.7	22.2
3	0.427	34.7	17.1	10.4	45.1	27.5	57.3	47.3	12.2	19.8
4	0.533	33.3	13.6	10.4	43.7	24.0	56.0	46.0	12.3	22.0
5	0.737	26.0	9.0	10.4	36.4	19.4	56.0	46.0	19.6	26.6
6	1.471	29.9	15.4	10.4	40.3	25.8	56.0	46.0	15.7	20.2

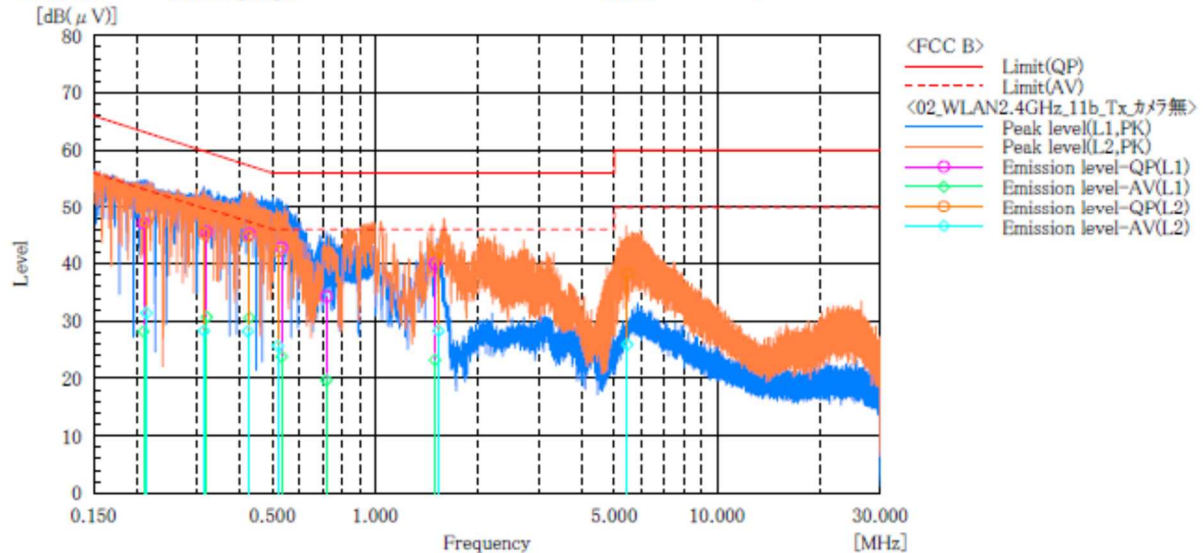
--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.212	37.6	22.4	10.4	48.0	32.8	63.1	53.1	15.1	20.3
2	0.324	35.2	19.5	10.4	45.6	29.9	59.6	49.6	14.0	19.7
3	0.526	32.1	14.7	10.4	42.5	25.1	56.0	46.0	13.5	20.9
4	0.960	31.5	14.4	10.4	41.9	24.8	56.0	46.0	14.1	21.2
5	1.523	31.2	17.9	10.4	41.6	28.3	56.0	46.0	14.4	17.7
6	2.017	28.9	16.1	10.5	39.4	26.6	56.0	46.0	16.6	19.4

[Without camera]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : DB62
 Serial No. : N/A
 Test mode : WLAN_11b,Tx

Standard : FCC Part.15 Class C
 Operator : T.Seino
 Temp,Hum,Atm : 23.3[°C] 56.9[%]
 Note1 : Without Camera
 Note2 :



Final Result

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.210	36.7	17.8	10.4	47.1	28.2	63.2	53.2	16.1	25.0
2	0.321	35.1	20.3	10.4	45.5	30.7	59.7	49.7	14.2	19.0
3	0.428	34.8	20.2	10.4	45.2	30.6	57.3	47.3	12.1	16.7
4	0.532	32.4	13.4	10.4	42.8	23.8	56.0	46.0	13.2	22.2
5	0.719	23.9	9.3	10.4	34.3	19.7	56.0	46.0	21.7	26.3
6	1.494	29.6	12.8	10.4	40.0	23.2	56.0	46.0	16.0	22.8

--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.214	37.0	21.0	10.4	47.4	31.4	63.0	53.0	15.6	21.6
2	0.315	34.9	17.9	10.4	45.3	28.3	59.8	49.8	14.5	21.5
3	0.424	34.4	17.8	10.4	44.8	28.2	57.4	47.4	12.6	19.2
4	0.519	31.8	15.3	10.4	42.2	25.7	56.0	46.0	13.8	20.3
5	1.529	31.7	17.9	10.4	42.1	28.3	56.0	46.0	13.9	17.7
6	5.457	27.5	15.2	10.7	38.2	25.9	60.0	50.0	21.8	24.1



Japan

5 Antenna requirement

According to FCC section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The antenna is a special antenna mounted inside of the EUT. Therefore, the EUT complies with the antenna requirement of FCC section 15.203.

6 Measurement Uncertainty

Expanded uncertainties stated are calculated with a coverage Factor $k=2$.
Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or non-compliance with test result.

Test item	Measurement uncertainty
Conducted emission, AMN (9 kHz – 150 kHz)	± 3.8 dB
Conducted emission, AMN (150 kHz – 30 MHz)	± 3.3 dB
Radiated emission (9 kHz – 30 MHz)	± 3.1 dB
Radiated emission (30 MHz – 1000 MHz)	± 4.9 dB
Radiated emission (1 GHz – 6 GHz)	± 4.8 dB
Radiated emission (6 GHz – 18 GHz)	± 5.1 dB
Radiated emission (18 GHz – 40 GHz)	± 5.8 dB
Radio Frequency	$\pm 1.4 \times 10^{-8}$
RF power, conducted	± 0.6 dB
Temperature	± 0.6 °C
Humidity	± 1.2 %
Voltage (DC)	± 0.4 %
Voltage (AC, <10kHz)	± 0.2 %

Judge	Measured value and standard limit value	
PASS	Standard limit value +Uncertainty -Uncertainty Measured value Even if it takes uncertainty into consideration, a standard limit value is fulfilled.	
	Standard limit value +Uncertainty -Uncertainty Measured value Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.	
FAIL	Standard limit value +Uncertainty -Uncertainty Measured value Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.	
	Standard limit value +Uncertainty -Uncertainty Measured value Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.	

7 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan
Phone: +81-238-28-2881
Fax: +81-238-28-2888

Accreditation and Registration

NVLAP

LAB CODE: 200306-0

VLAC

Accreditation No.: VLAC-013

BSMI

Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada

Site number	Facility	Expiration date
4224A-4	3 m Semi-anechoic chamber	27-November-2020
4224A-5	10 m Semi-anechoic chamber No. 1	27-November-2020
4224A-6	10 m Semi-anechoic chamber No. 2	14-December-2019

VCCI Council

Registration number	Expiration date
A-0166	03-July-2021

Appendix A. Test Equipment

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Aug-2020	05-Aug-2019
Attenuator	Weinschel	56-10	J4180	31-Jul-2020	18-Jul-2019
Power meter	ROHDE&SCHWARZ	NRP2	103269	31-Jul-2020	18-Jul-2019
Power sensor	ROHDE&SCHWARZ	NRP-Z81	102467	31-Jul-2020	18-Jul-2019

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2019	20-Sep-2018
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Aug-2020	05-Aug-2019
Signal analyzer	ROHDE&SCHWARZ	FSV40	101731	31-Dec-2019	07-Dec-2018
Preamplifier	SONOMA	310	372170	30-Sep-2019	20-Sep-2018
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	100515	31-Mar-2020	07-Mar-2019
Attenuator	TOYO Connector	NA-PJ-6	N/A(S507)	31-Dec-2019	17-Dec-2018
Biconical antenna	Schwarzbeck	VHA9103/BBA9106	VHA91031308	31-May-2020	16-May-2019
Log periodic antenna	Schwarzbeck	UHALP9108A	0728	31-May-2020	16-May-2019
Attenuator	TAMAGAWA.ELEC	CFA-01/6dB	N/A(S465)	31-May-2020	17-May-2019
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2020	17-Jul-2019
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Jan-2020	17-Jan-2019
Attenuator	AEROFLEX	26A-10	081217-08	31-Jan-2020	17-Jan-2019
Double ridged guide antenna	ETS LINDGREN	3117	00224193	31-Jan-2020	23-Jan-2019
Attenuator	Agilent Technologies	8491B	MY39268633	31-Mar-2020	08-Mar-2019
DRGH antenna	A.H.Systems Inc.	SAS-574	469	31-Aug-2019	24-Aug-2018
				31-Aug-2020	28-Aug-2019
Preamplifier	TSJ	MLA-1840-B03-35	1240332	31-Aug-2019	24-Aug-2018
				31-Aug-2020	28-Aug-2019
Notch filter	Micro-Tronics	BRM50702	045	31-May-2020	16-May-2019
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	MY30037/4	31-Jan-2020	16-Jan-2019
		SUCOFLEX104/1m	my24610/4	31-Jan-2020	16-Jan-2019
		SUCOFLEX104/8m	SN MY30031/4	31-Jan-2020	16-Jan-2019
		SUCOFLEX104	MY32976/4	31-Jan-2020	16-Jan-2019
		SUCOFLEX104/1.5m	MY19309/4	31-Jan-2020	16-Jan-2019
		SUCOFLEX104/7m	41625/6	31-Jan-2020	16-Jan-2019
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V5.6.0	N/A	N/A
Absorber	RIKEN	PFP30	N/A	N/A	N/A
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-NSA)	31-May-2020	14-May-2019
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2020	13-May-2019

Conducted emission at mains port

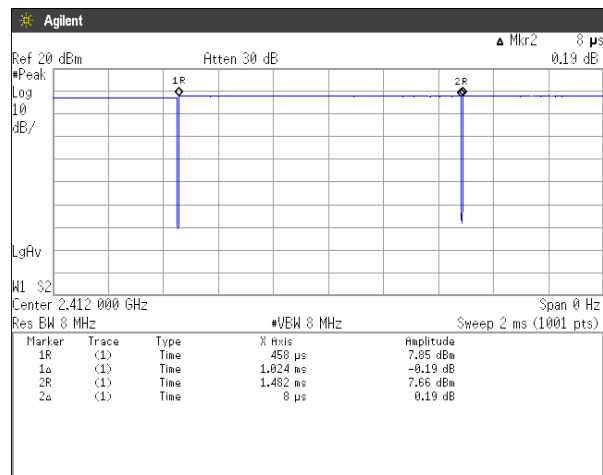
Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2019	20-Sep-2018
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Jan-2020	17-Jan-2019
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	TNW-407F2	12-17-110-2	31-May-2020	16-May-2019
Coaxial cable	FUJIKURA	5D-2W/4m	N/A (S350)	31-Jan-2020	16-Jan-2019
Coaxial cable	FUJIKURA	5D-2W/1m	N/A (S193)	31-Jan-2020	16-Jan-2019
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	31-Jan-2020	16-Jan-2019
PC	DELL	DIMENSION	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/CE-AJ	0611193/V5.4.11	N/A	N/A

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.

Appendix B. Duty Cycle

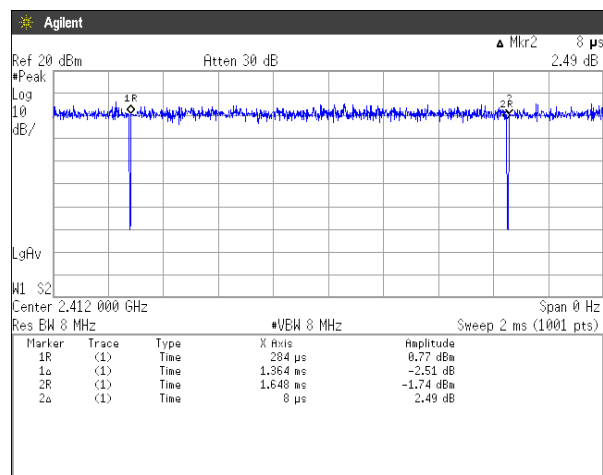
[Plot & Calculation]

11b



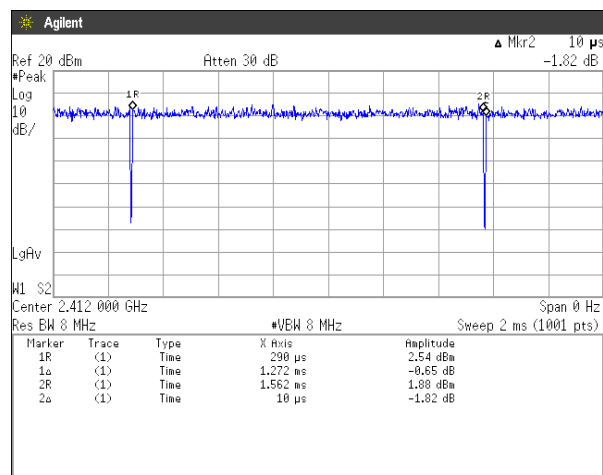
$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff}) = 1024[\mu\text{s}] / (1024[\mu\text{s}] + 8[\mu\text{s}]) = 99.22\%$$

11g



$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff}) = 1364[\mu\text{s}] / (1364[\mu\text{s}] + 8[\mu\text{s}]) = 99.42\%$$

11n (HT20)



$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff}) = 1272[\mu\text{s}] / (1272[\mu\text{s}] + 10[\mu\text{s}]) = 99.22\%$$