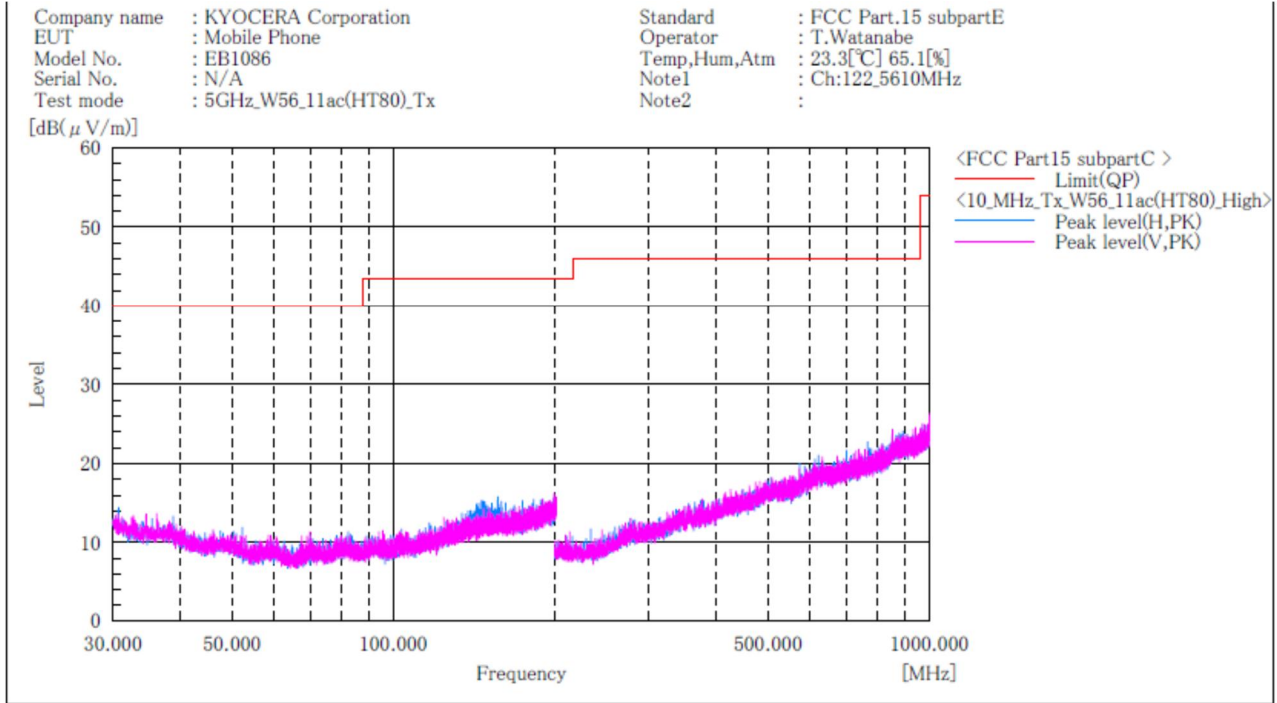




Japan

[11ac(VHT80)]
W56 / Channel High
BELOW 1GHz

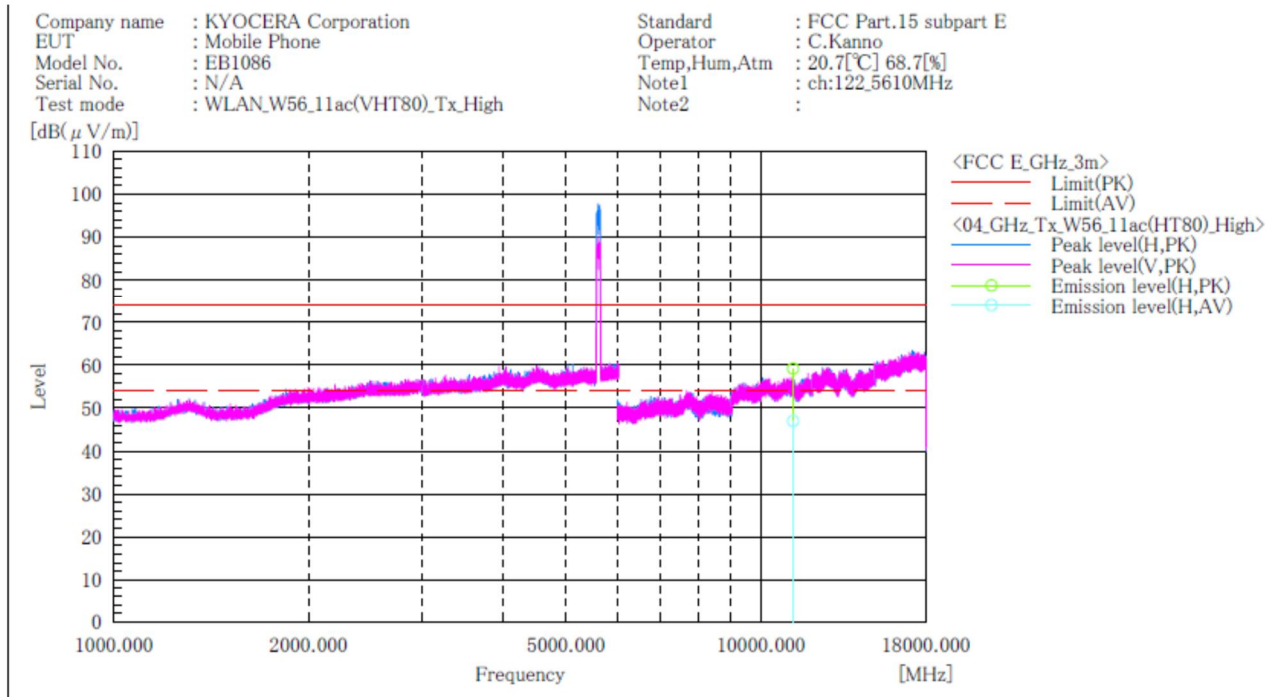


Final Result

No.	Frequency (P)	c.f	Height	Angle	Remark
	[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.

[11ac(VHT80)]
W56 / Channel High
ABOVE 1GHz



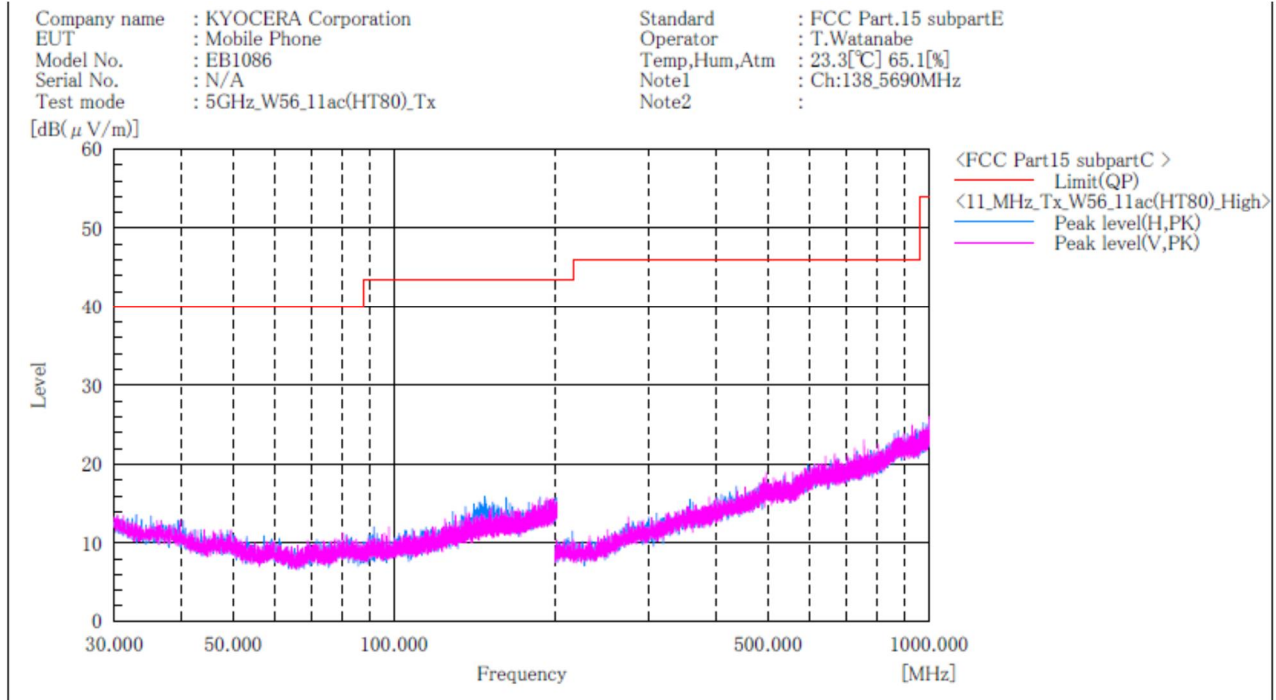
Final Result

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	11220.000	H	46.8	34.6	12.4	59.2	47.0	74.0	54.0	14.8	7.0	100.0	3.0

Note:

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

[11ac(VHT80)]
W56 / Channel High
BELOW 1GHz



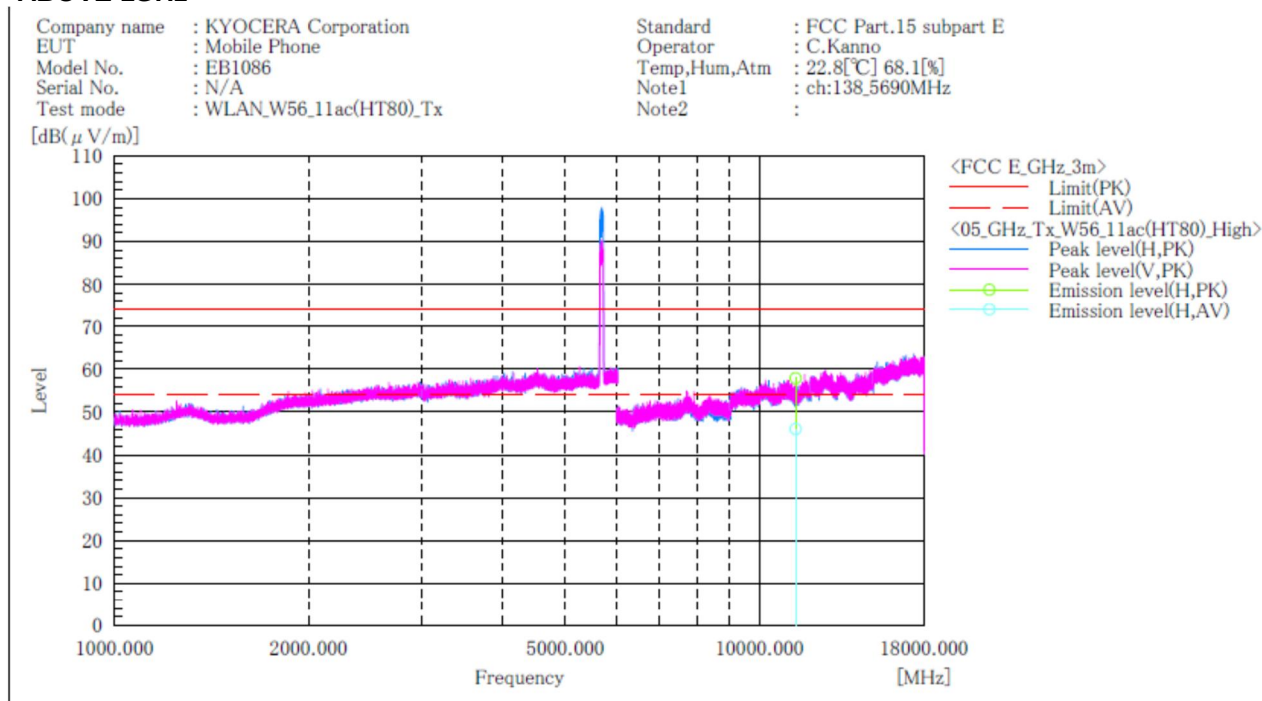
Final Result

No.	Frequency (P)	c.f	Height	Angle	Remark
	[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.

[11ac(VHT80)]
W56 / Channel High
ABOVE 1GHz



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(μ V)]	[dB(μ V)]	[dB(1/m)]	[dB(μ V/m)]	[dB(μ V/m)]	[dB(μ V/m)]	[dB(μ V/m)]	[dB]	[dB]	[cm]	[°]		
1	11380.000	H	45.4	33.5	12.5	57.9	46.0	74.0	54.0	16.1	8.0	100.0	245.0	

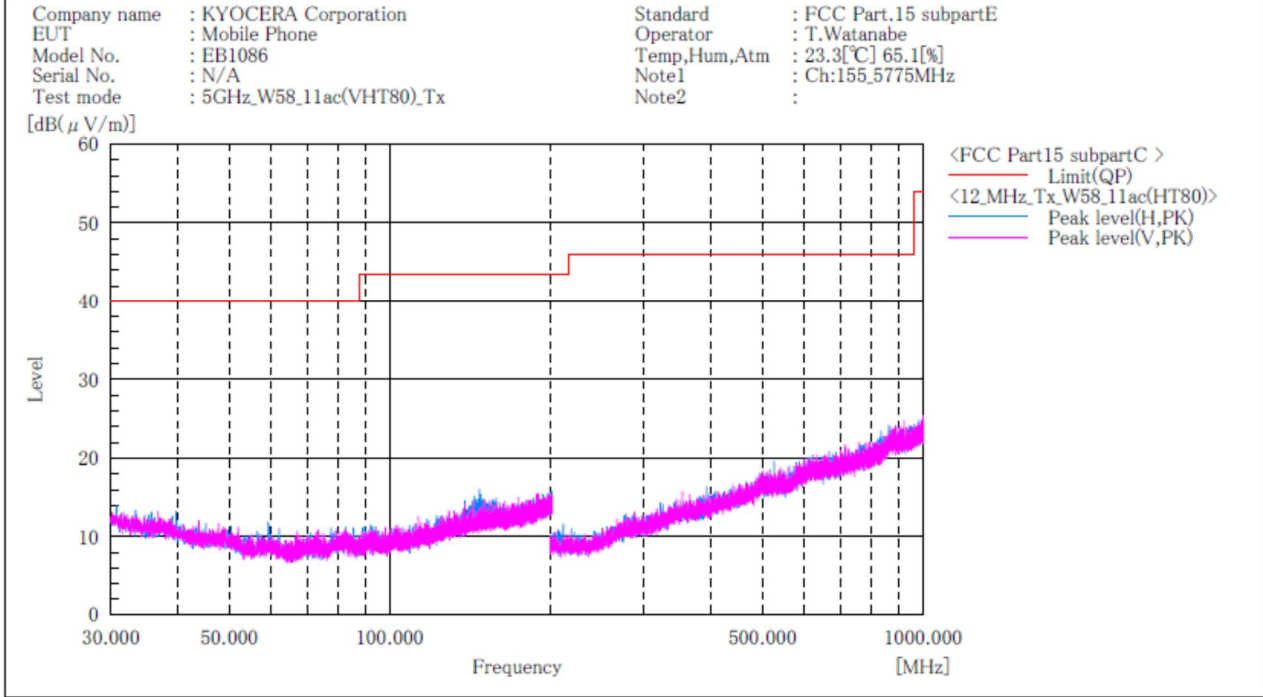
Note:

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

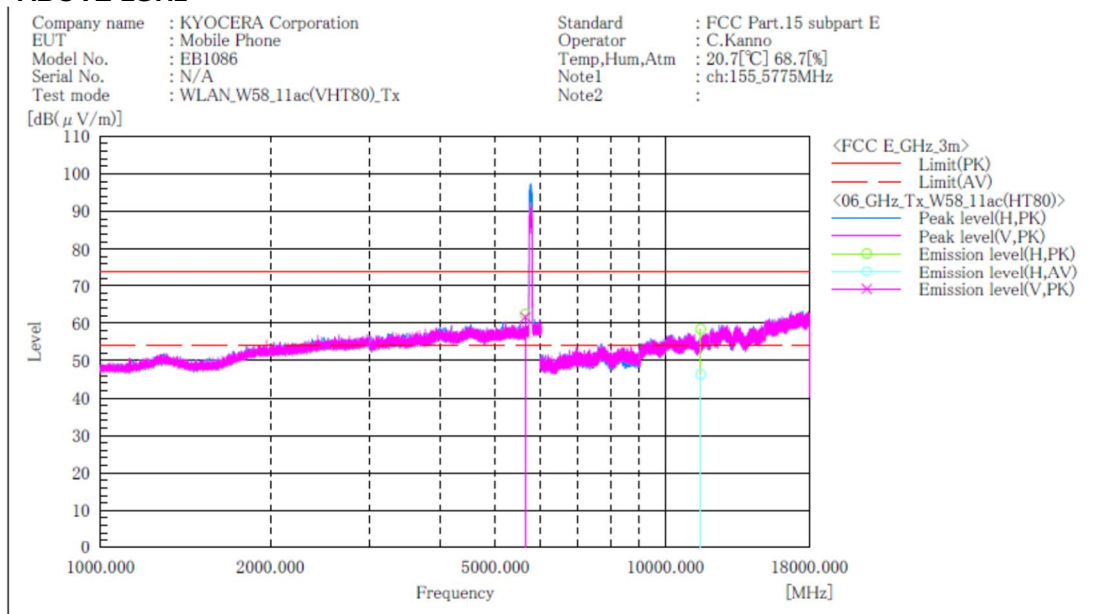
[11ac(VHT80)]
W58
BELOW 1GHz



Final Result

No.	Frequency (P)	c.f	Height	Angle	Remark
	[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.

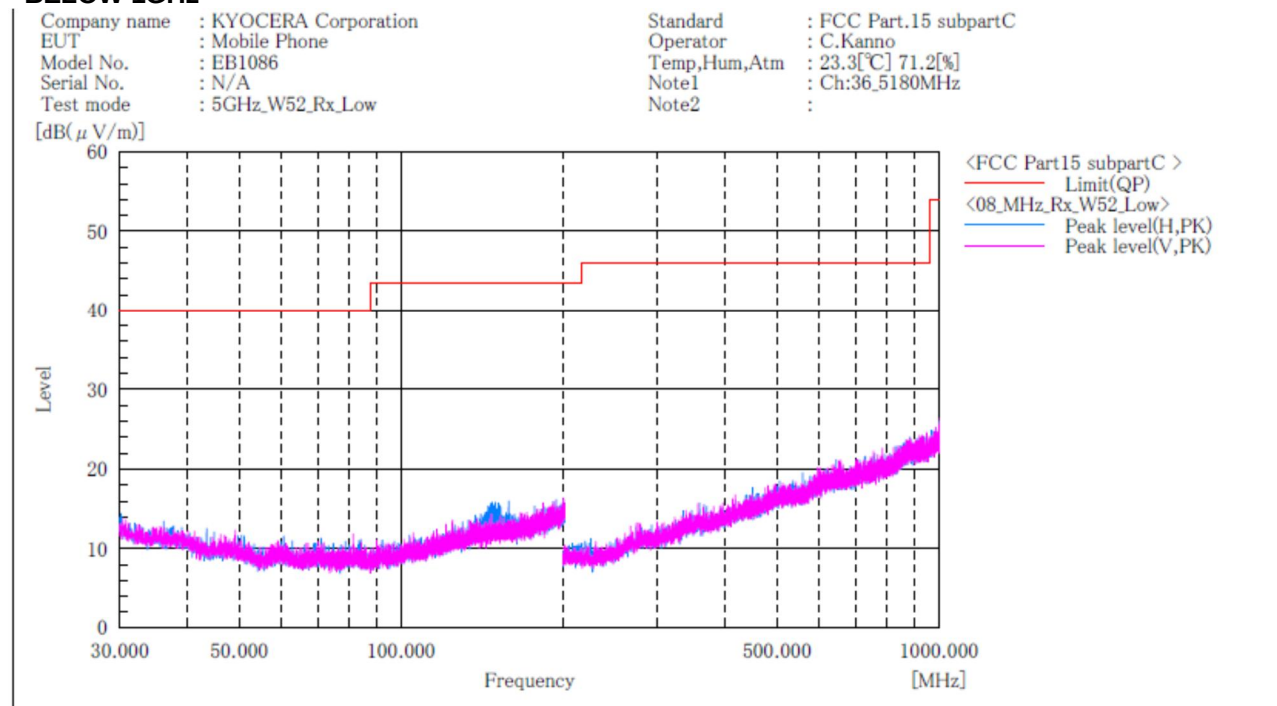
[11ac(VHT80)]**W58****ABOVE 1GHz**

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 [°]	Remark
1	5649.400	H	50.5		11.9	62.4		68.2	54.0	5.8		100.0	0.0	
2	5647.000	V	49.7		11.9	61.6		68.2	54.0	6.6		100.0	185.0	
3	11550.000	H	45.9	33.8	12.5	58.4	46.3	74.0	54.0	15.6	7.7	100.0	260.0	

Note:

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

Receive mode**W52 / Channel Low
BELOW 1GHz****Final Result**

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

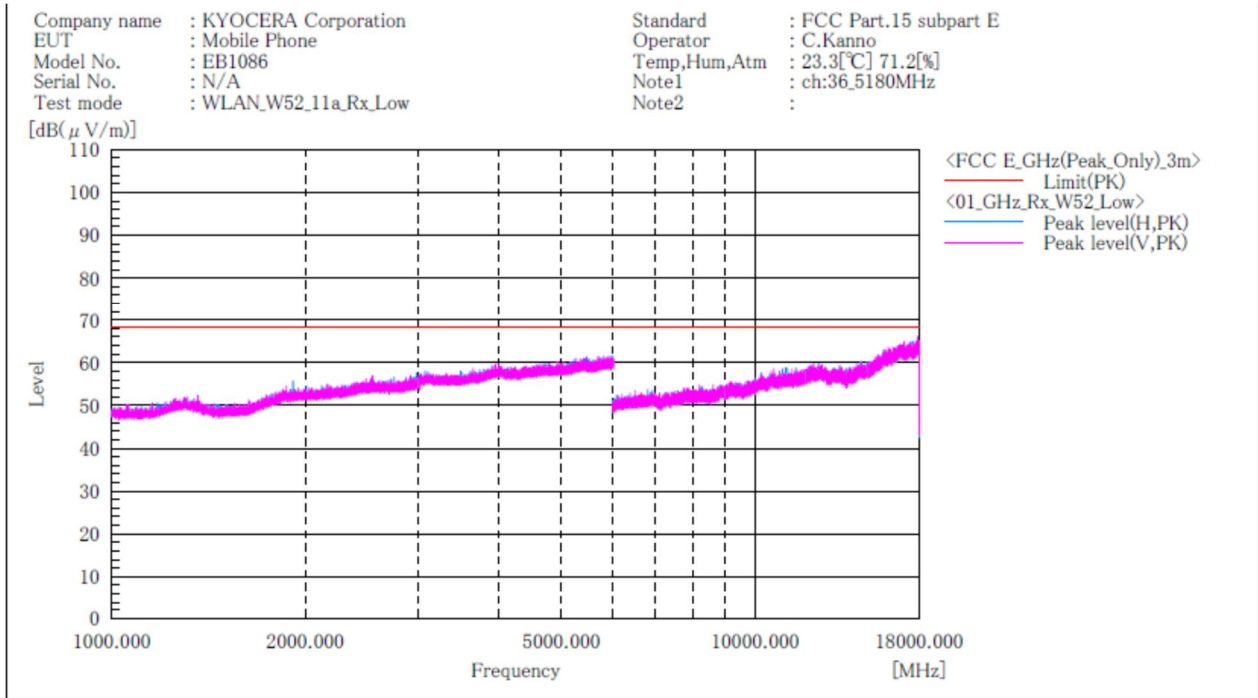
Note:

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

**W52 / Channel Low
ABOVE 1GHz**



Final Result

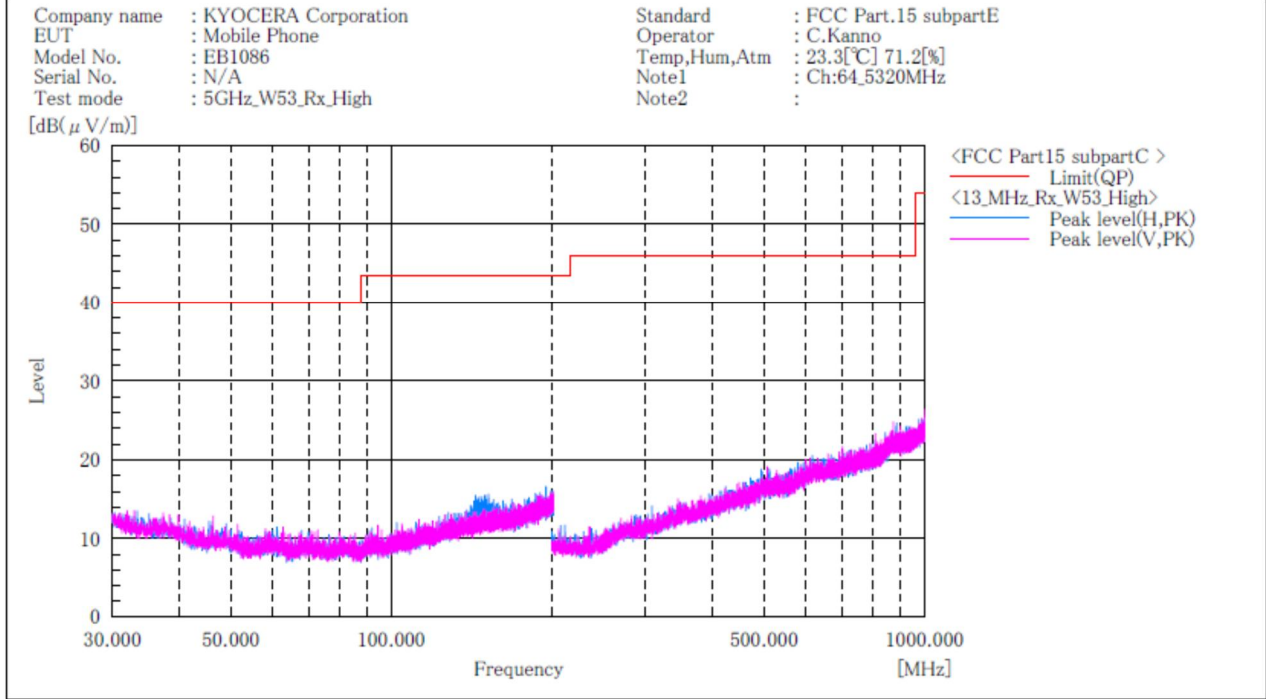
No.	Frequency (P)	c.f	Height	Angle	Remark
	[MHz]	[dB(1/m)]	[cm]	[°]	

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



Japan

**W53 / Channel High
BELOW 1GHz**



Final Result

No.	Frequency (P)	c. f	Height	Angle	Remark
	[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.

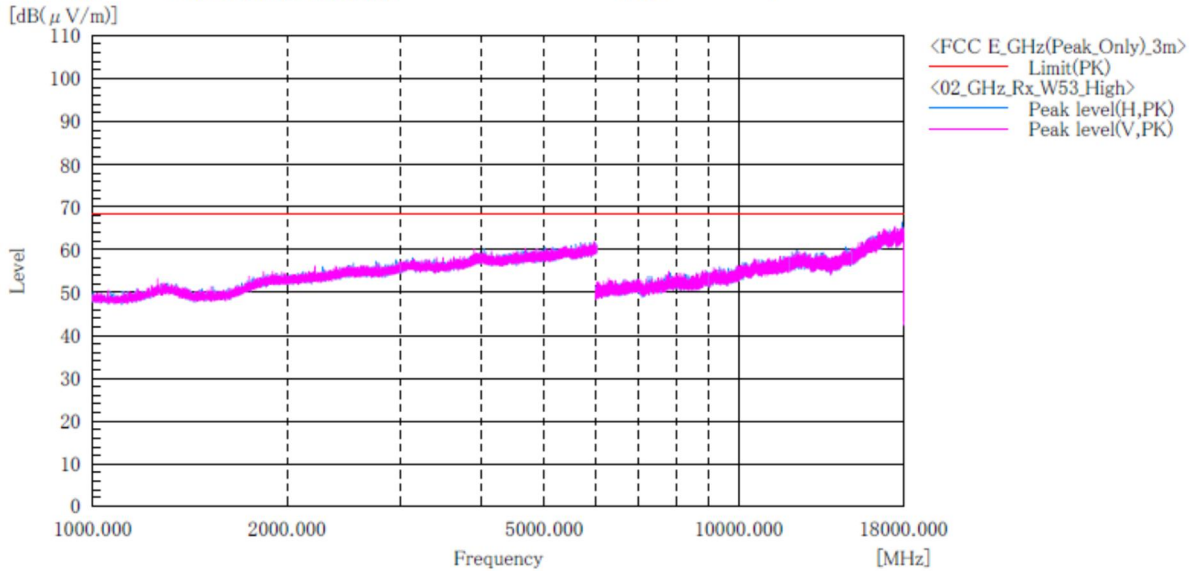


Japan

**W53 / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : WLAN_W53_11a_Rx_High

Standard : FCC Part.15 subpart E
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : ch:64_5320MHz
Note2 :



Final Result

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

Note:

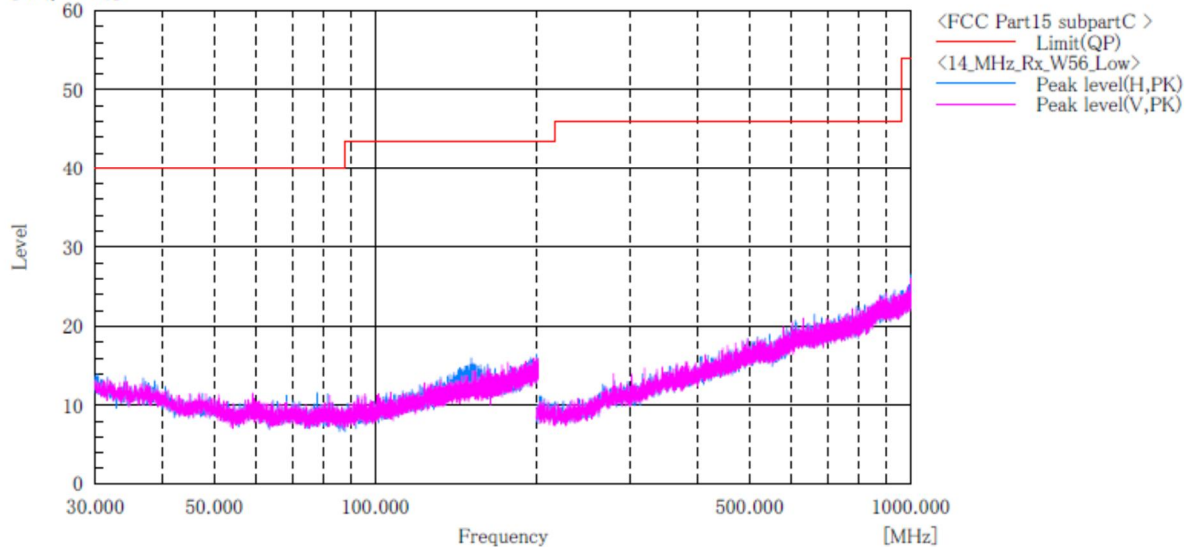
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

W56 / Channel Low BELOW 1GHz

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : 5GHz_W56_Rx_Low

Standard : FCC Part.15 subpartE
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : Ch:100_5500MHz
Note2 :

[dB(μV/m)]



Final Result

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

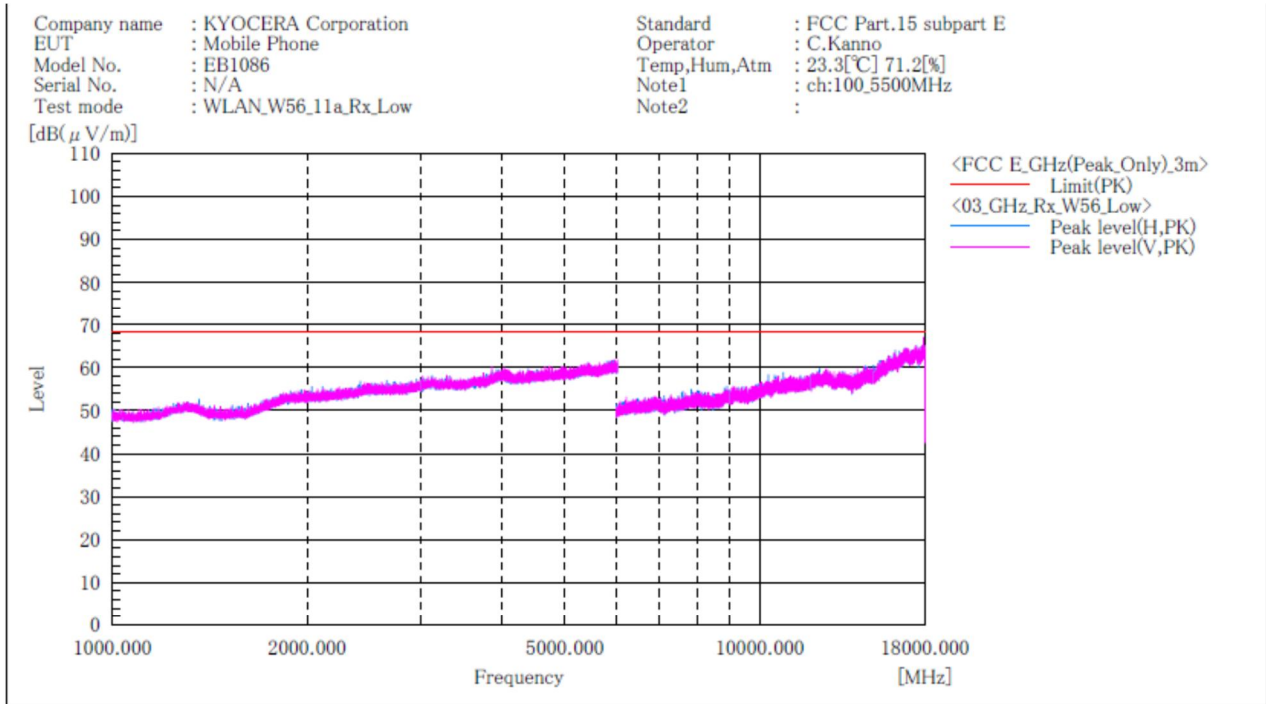
Note:

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

**W56 / Channel Low
ABOVE 1GHz**



Final Result

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

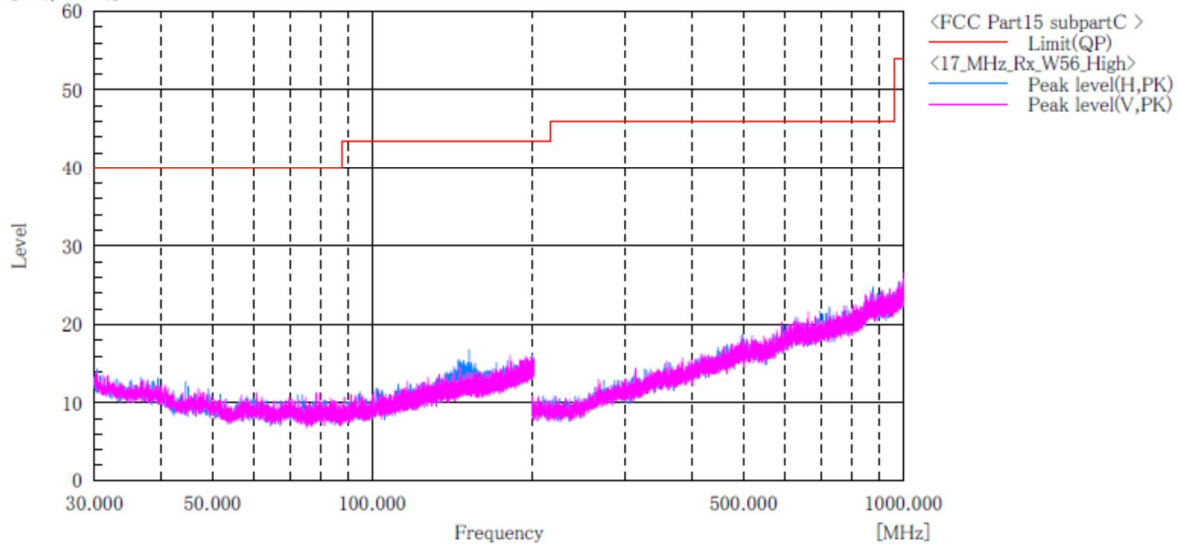
- Note:
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
 2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

W56 / Channel High BELOW 1GHz

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : 5GHz_W56_Rx_High

Standard : FCC Part.15 subpartE
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : Ch:144_5720MHz
Note2 :

[dB(μV/m)]



Final Result

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

Note:

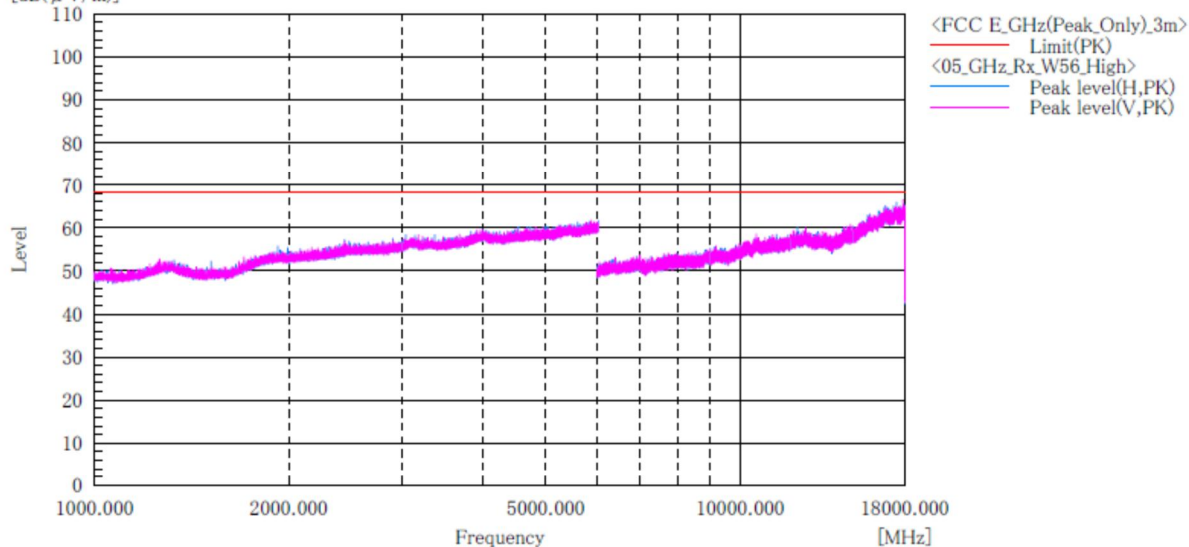
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

W56 / Channel High ABOVE 1GHz

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : WLAN_W56_11a_Rx_High

Standard : FCC Part.15 subpart E
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : ch:144,5720MHz
Note2 :

[dB(μV/m)]



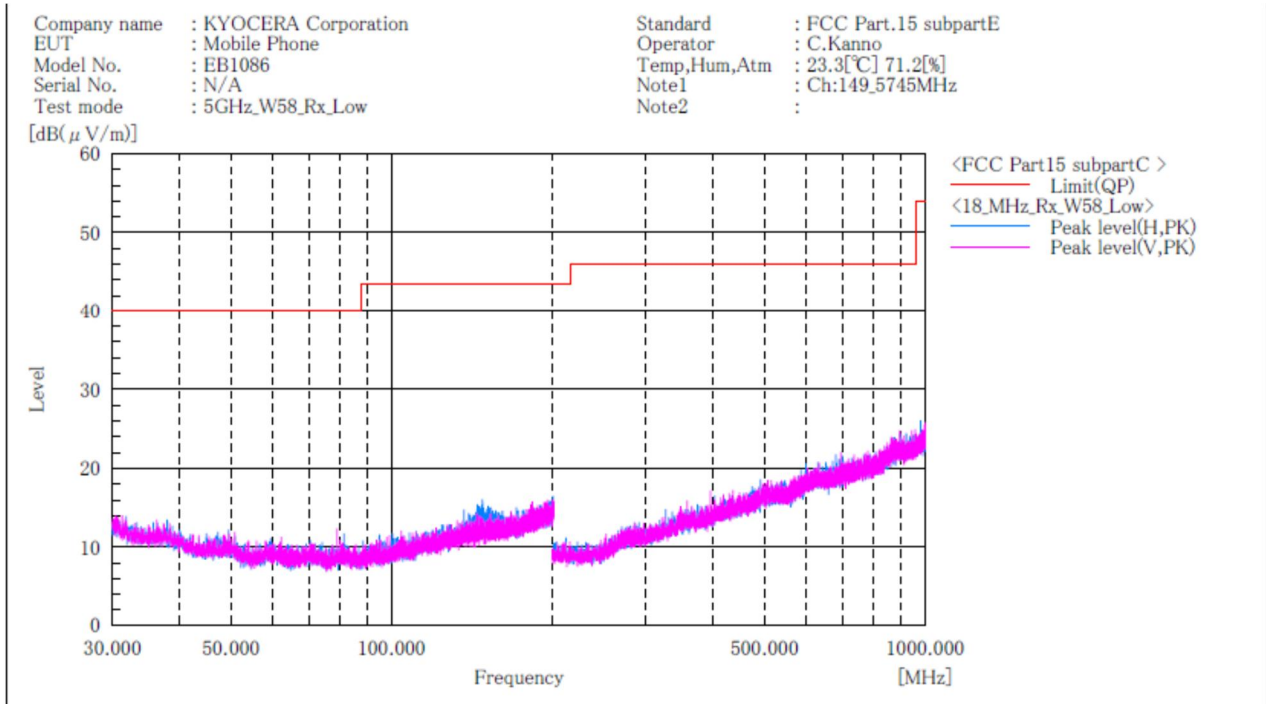
Final Result

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

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

**W58 / Channel Low
BELOW 1GHz**



Final Result

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

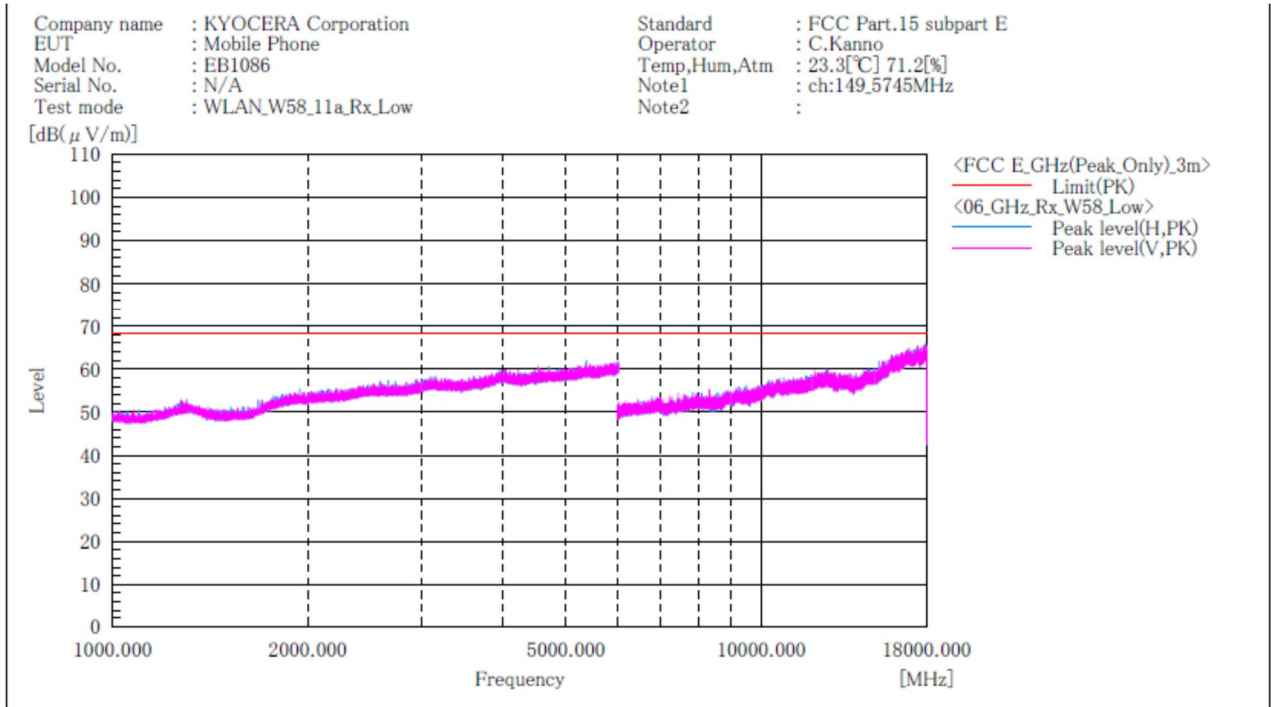
Note:

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

**W58 / Channel Low
ABOVE 1GHz**



Final Result

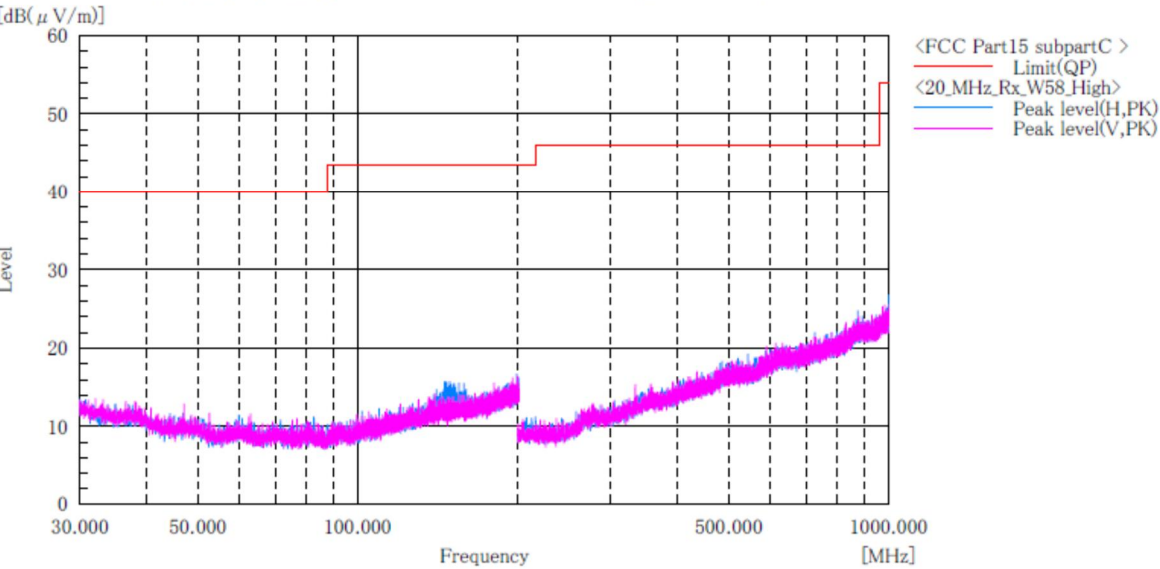
No.	Frequency (P)	c.f	Height	Angle	Remark
	[MHz]	[dB(1/m)]	[cm]	[°]	

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

W58 / Channel High
BELOW 1GHz

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : 5GHz_W58_Rx_High

Standard : FCC Part.15 subpartE
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : Ch:165_5825MHz
Note2 :



Final Result

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

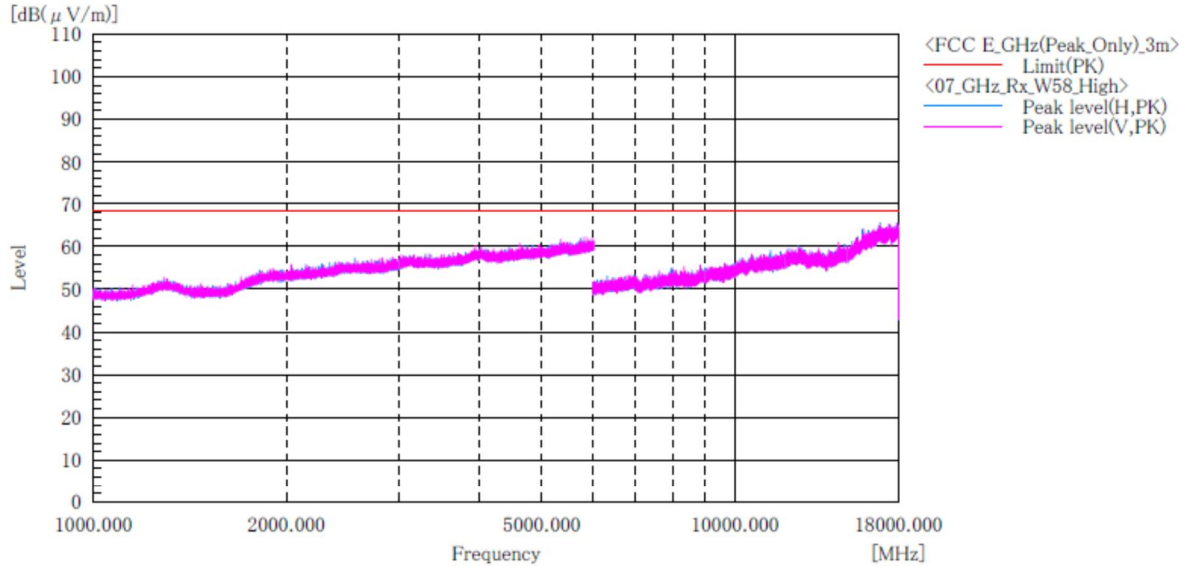
Note:

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.

**W58 / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
EUT : Mobile Phone
Model No. : EB1086
Serial No. : N/A
Test mode : WLAN_W58_11a_Rx_High

Standard : FCC Part.15 subpart E
Operator : C.Kanno
Temp,Hum,Atm : 23.3[°C] 71.2[%]
Note1 : ch:165_5825MHz
Note2 :



Final Result

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

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.

4.6 Frequency Stability

4.6.1 Measurement procedure

[FCC 15.407(g)]

The EUT was placed of an inside of an constant temperature chamber as the temperature in the chamber was varied between -30°C and $+60^{\circ}\text{C}$. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channels center frequency was recorded.

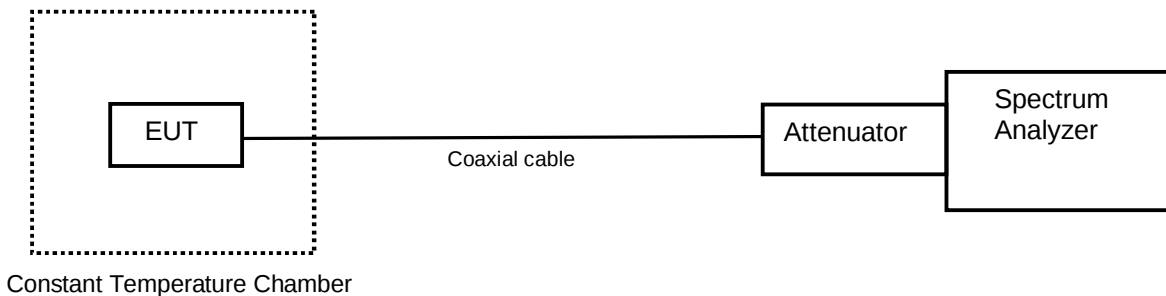
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.6.2 Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified.

4.6.3 Measurement result

Date : 7-September-2021
 Temperature : 20.4 [°C]
 Humidity : 59.9 [%]
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

[Channel: 36 (5180 MHz)]

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.85	25(Ref.)	5179994639	0.00000000	5179987110	-1.45347641	5179977182	-3.37008071	5180000001	1.03505317
	60	5179972384	-4.29633649	5179997547	0.56139054	5180010858	3.13108432	5180020509	4.99421366
	50	5179987740	-1.33185466	5180000001	1.03511768	5179965486	-5.62799810	5179994949	0.05984562
	40	5179997700	0.59092725	5179979225	-2.97567876	5179997892	0.62799293	5179972665	-4.24208933
	30	5179997204	0.49517426	5179997537	0.55946004	5179981119	-2.61004131	5179984823	-1.89498266
	20	5180012355	3.42008076	5179991213	-0.66139065	5180013952	3.72838224	5179985482	-1.76776245
	10	5180019933	4.88301664	5179995800	0.22413151	5180005911	2.17606403	5180026202	6.09324955
	0	5180022704	5.41795928	5180019294	4.75965744	5180027678	6.37819193	5180019615	4.82162661
	-10	5180035238	7.83765290	5180042970	9.33031854	5180046539	10.01931539	5180022187	5.31815222
	-20	5180043235	9.38147689	5180041298	9.00753828	5180030326	6.88938937	5180027580	6.35927299
	-30	5180021278	5.14266942	5180029513	6.73243940	5180020880	5.06583536	5180033319	7.46718920
3.27	25	5180020934	5.07626008	5180000001	1.03508809	5179997468	0.54613956	5179993378	-0.24343655
4.43	25	5180007414	2.46621877	5180000001	1.03504681	5179992241	-0.46293484	5179991543	-0.59768402

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

[Channel: 64 (5320 MHz)]

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.85	25(Ref.)	5319977458	0.00000000	5319996159	3.51524046	5319983916	1.21391492	5319962529	-2.80621490
	60	5319987430	1.87444403	5319994549	3.21260760	5319993576	3.02971209	5320013969	6.86299900
	50	5319982979	1.03778635	5320001944	4.60265108	5319977883	0.07988756	5319974732	-0.51240819
	40	5319982675	0.98064325	5319975552	-0.35827219	5319978195	0.13853442	5319968607	-1.66372885
	30	5319979665	0.41485138	5320005051	5.18667611	5319989435	2.25132533	5319983225	1.08402715
	20	5320006552	5.46882017	5319996702	3.61730856	5320003798	4.95114880	5320003132	4.82596030
	10	5320012387	6.56562932	5320018888	7.78762698	5320009769	6.07352198	5320005529	5.27652612
	0	5320026270	9.17522685	5320011782	6.45190704	5320032685	10.38105902	5320014916	7.04100728
	-10	5320023277	8.61263048	5320038054	11.39027383	5320034032	10.63425559	5320042572	12.23952555
	-20	5320017048	7.44176086	5320036858	11.16546084	5320026332	9.18688103	5320030931	10.05135838
	-30	5320008281	5.79382154	5320029553	9.79233473	5320008687	5.87013766	5320035463	10.90324169
3.27	25	5319982353	0.92011668	5320003829	4.95697589	5319978076	0.11616591	5319983750	1.18271178
4.43	25	5319997956	3.85302384	5319982145	0.88101877	5319967579	-1.85696276	5319975907	-0.29154259

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

[Channel: 144 (5720 MHz)]

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.85	25(Ref.)	5719974377	0.00000000	5719972001	-0.41538648	5719977714	0.58339422	5719984337	1.74126654
	60	5719966684	-1.34493609	5720001869	4.80631524	5719989650	2.67011686	5720019795	7.94024536
	50	5719967566	-1.19073960	5719971706	-0.46696013	5719962339	-2.10455488	5719983592	1.61102120
	40	5719963307	-1.93532335	5719959697	-2.56644506	5719952389	-3.84407316	5719950602	-4.15648715
	30	5719981322	1.21416628	5719978274	0.68129676	5719955222	-3.34879122	5719976279	0.33251897
	20	5719991725	3.03288072	5719987177	2.23777226	5719968830	-0.96975959	5719981399	1.22762788
	10	5719993440	3.33270724	5719984357	1.74476306	5720013559	6.85003069	5719994992	3.60403712
	0	5720023547	8.59619235	5719997623	4.06400422	5720002508	4.91802902	5720007205	5.73918655
	-10	5720005334	5.41208718	5720037216	10.98588837	5720034203	10.45913776	5720033697	10.37067583
	-20	5720016589	7.37975334	5720018626	7.73587381	5720036199	10.80809037	5720029434	9.62539277
	-30	5720010593	6.33149689	5719998540	4.22431962	5720024946	8.84077387	5720019846	7.94916148
3.27	25	5719990728	2.85857924	5719989038	2.56312337	5719977728	0.58584179	5719979944	0.97325611
4.43	25	5719998918	4.29040383	5719987599	2.31154882	5719978786	0.77080765	5719974871	0.08636402

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

[Channel: 165 (5825 MHz)]

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.85	25(Ref.)	5824948065	0.00000000	5824970868	3.91471301	5824980522	5.57206685	5824967373	3.31470767
	60	5824980096	5.49893315	5824983172	6.02700653	5824992054	7.55182699	5824998739	8.69947671
	50	5824979676	5.42682950	5824970606	3.86973407	5824962339	2.45049395	5825001055	9.09707682
	40	5824986030	6.51765468	5824964516	2.82423119	5824961548	2.31469875	5824963159	2.59126774
	30	5824970440	3.84123596	5824976352	4.85618064	5824967544	3.34406415	5824970869	3.91488469
	20	5824999999	8.91586880	5825006773	10.07871647	5825010859	10.78018195	5824973785	4.41549001
	10	5825027308	13.60406979	5824992038	7.54908018	5824999999	8.91581109	5825007097	10.13433928
	0	5825018138	12.02980683	5825013083	11.16198793	5825006935	10.10652788	5825017455	11.91255256
	-10	5825047042	16.99191115	5825012250	11.01898236	5825037107	15.28631655	5825027067	13.56269603
	-20	5825032545	14.50313360	5825029214	13.93128301	5825006661	10.05948883	5825042302	16.17816999
	-30	5825034959	14.91755790	5825017047	11.84250902	5825063989	19.90129332	5825007440	10.19322393
3.27	25	5825000001	8.91610315	5824981399	5.72262613	5824988024	6.85997533	5824964320	2.79058282
4.43	25	5824975129	4.64622168	5824980757	5.61241055	5824984557	6.26477689	5824979661	5.42425437

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

4.7 AC Power Line Conducted Emissions

4.7.1 Measurement procedure

[FCC 15.207]

Test was applied by following conditions.

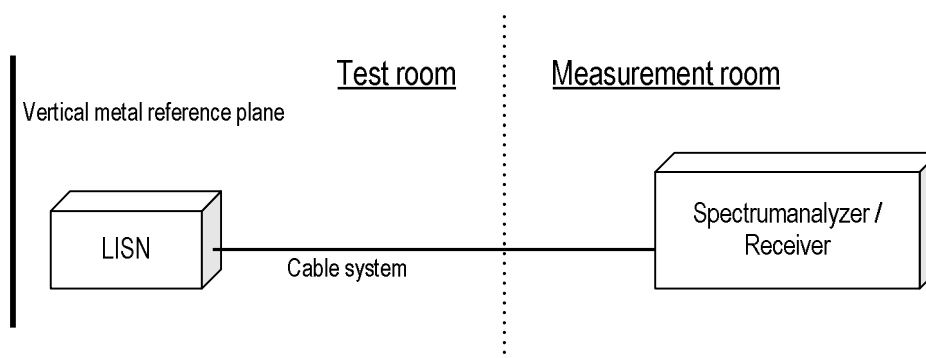
Test method	: ANSI C63.10
Frequency range	: 0.15 MHz to 30 MHz
Test place	: 3m Semi-anechoic chamber
EUT was placed on	: FRP table / (W) 2.0 × (D) 1.0 × (H) 0.8 m
Vertical Metal Reference Plane	: (W) 2.0 × (H) 2.0 m, 0.4 m away from EUT
Test receiver setting	
- Detector	: Quasi-peak, Average
- Bandwidth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

EUT and peripherals are connected to 50Ω/50μH 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



4.7.2 Calculation method

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

Margin = Limit – Emission level

4.7.3 Limit

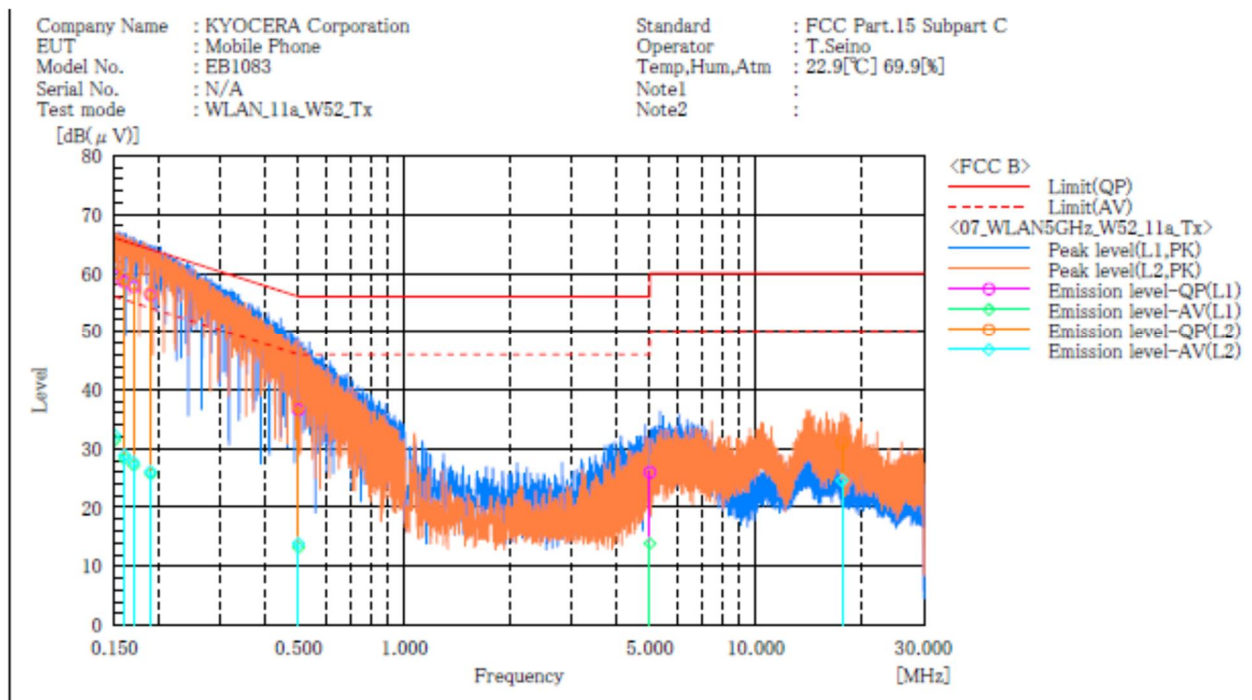
Frequency [MHz]	Limit	
	QP [dBuV]	AV [dBuV]
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

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

4.7.4 Test data

Date : 4-September-2021
 Temperature : 22.9 [°C]
 Humidity : 69.9 [%]
 Test place : 3m Semi-anechoic chamber

Test engineer : Tadahiro Seino



Final Result

--- L1 Phase ---

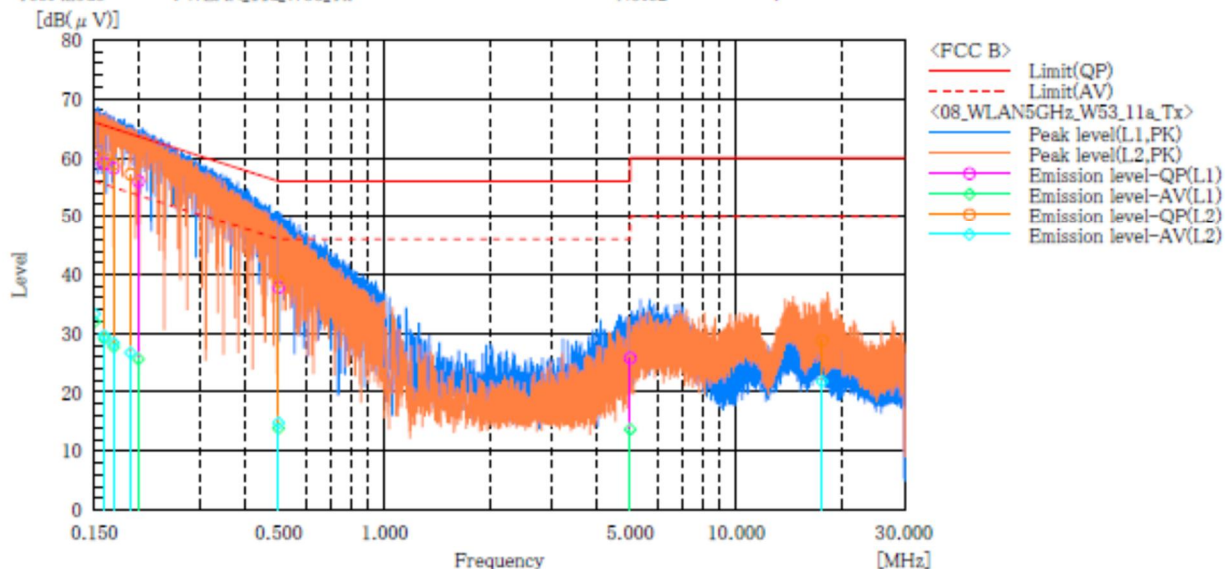
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.150	48.9	20.9	10.6	59.5	31.5	66.0	56.0	6.5	24.5
2	0.160	48.0	17.8	10.5	58.5	28.3	65.5	55.5	7.0	27.2
3	0.170	47.2	16.7	10.5	57.7	27.2	65.0	55.0	7.3	27.8
4	0.190	45.8	15.2	10.5	56.3	25.7	64.0	54.0	7.7	28.3
5	0.500	26.2	2.8	10.4	36.6	13.2	56.0	46.0	19.4	32.8
6	4.999	15.3	3.2	10.7	26.0	13.9	56.0	46.0	30.0	32.1

--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.150	49.4	21.7	10.6	60.0	32.3	66.0	56.0	6.0	23.7
2	0.160	48.5	18.3	10.6	59.1	28.9	65.5	55.5	6.4	26.6
3	0.170	47.6	17.1	10.6	58.2	27.7	65.0	55.0	6.8	27.3
4	0.190	46.1	15.6	10.5	56.6	26.1	64.0	54.0	7.4	27.9
5	0.500	26.7	3.5	10.4	37.1	13.9	56.0	46.0	18.9	32.1
6	17.573	19.1	12.7	11.9	31.0	24.6	60.0	50.0	29.0	25.4

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1083
 Serial No. : N/A
 Test mode : WLAN_11a_W53_Tx

Standard : FCC Part.15 Subpart C
 Operator : T.Seino
 Temp,Hum,Atm : 22.9[°C] 69.9[%]
 Note1 :
 Note2 :



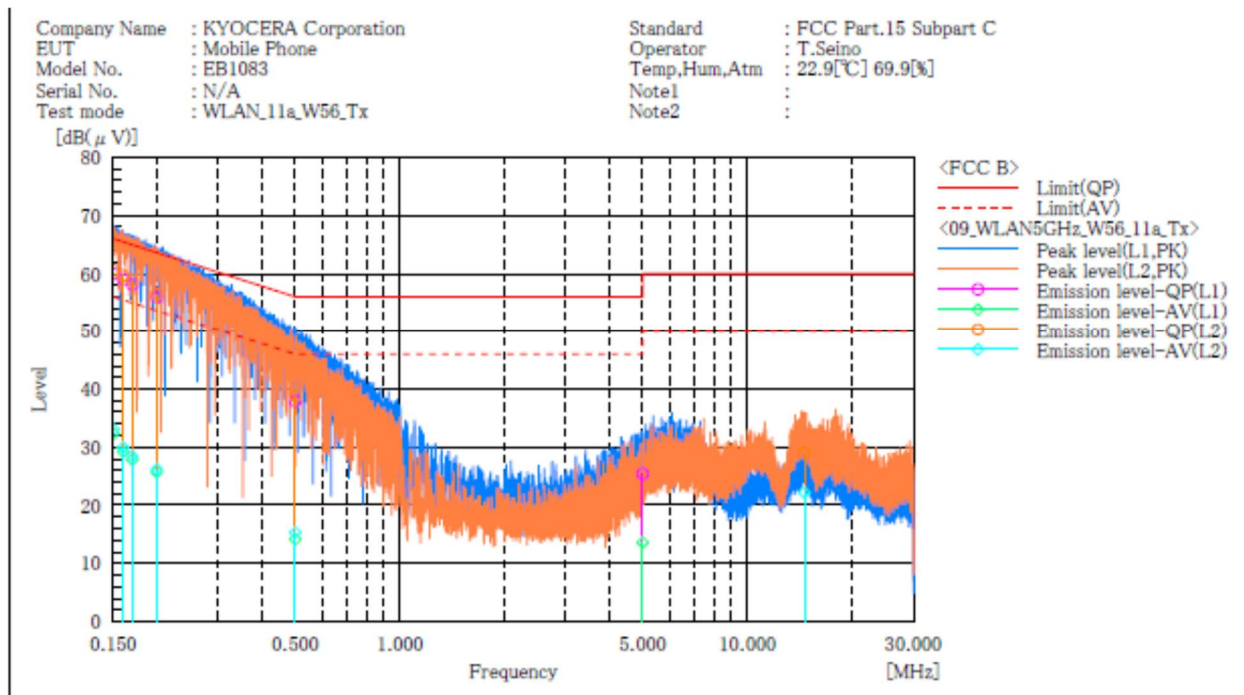
Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading CAV	c. f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	49.3	21.4	10.6	59.9	32.0	66.0	56.0	6.1	24.0
2	0.160	48.5	18.6	10.5	59.0	29.1	65.5	55.5	6.5	26.4
3	0.170	47.7	17.2	10.5	58.2	27.7	65.0	55.0	6.8	27.3
4	0.200	45.5	15.1	10.5	56.0	25.6	63.6	53.6	7.6	28.0
5	0.500	27.4	3.5	10.4	37.8	13.9	56.0	46.0	18.2	32.1
6	4.999	15.1	3.0	10.7	25.8	13.7	56.0	46.0	30.2	32.3

--- L2 Phase ---

No.	Frequency	Reading QP	Reading CAV	c. f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	50.0	22.7	10.6	60.6	33.3	66.0	56.0	5.4	22.7
2	0.160	49.2	19.0	10.6	59.8	29.6	65.5	55.5	5.7	25.9
3	0.170	48.3	17.7	10.6	58.9	28.3	65.0	55.0	6.1	26.7
4	0.190	46.7	16.2	10.5	57.2	26.7	64.0	54.0	6.8	27.3
5	0.500	28.5	4.4	10.4	38.9	14.8	56.0	46.0	17.1	31.2
6	17.515	16.9	9.9	11.9	28.8	21.8	60.0	50.0	31.2	28.2



Final Result

--- L1 Phase ---

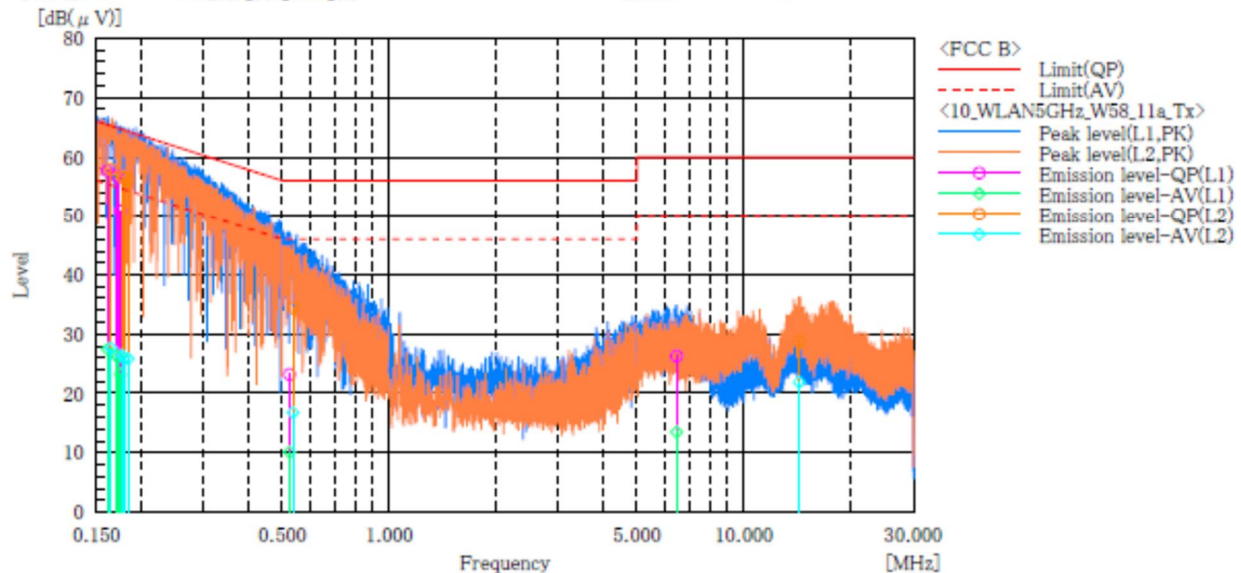
No.	Frequency	Reading QP	Reading CAV	c. f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	49.4	21.7	10.6	60.0	32.3	66.0	56.0	6.0	23.7
2	0.160	48.6	18.7	10.5	59.1	29.2	65.5	55.5	6.4	26.3
3	0.170	47.6	17.3	10.5	58.1	27.8	65.0	55.0	6.9	27.2
4	0.200	45.5	15.2	10.5	56.0	25.7	63.6	53.6	7.6	27.9
5	0.500	27.5	3.8	10.4	37.9	14.2	56.0	46.0	18.1	31.8
6	4.999	14.7	2.9	10.7	25.4	13.6	56.0	46.0	30.6	32.4

--- L2 Phase ---

No.	Frequency	Reading QP	Reading CAV	c. f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	50.0	22.5	10.6	60.6	33.1	66.0	56.0	5.4	22.9
2	0.160	49.1	19.3	10.6	59.7	29.9	65.5	55.5	5.8	25.6
3	0.170	48.2	17.8	10.6	58.8	28.4	65.0	55.0	6.2	26.6
4	0.200	46.0	15.7	10.5	56.5	26.2	63.6	53.6	7.1	27.4
5	0.500	28.4	4.9	10.4	38.8	15.3	56.0	46.0	17.2	30.7
6	14.569	17.4	10.6	11.6	29.0	22.2	60.0	50.0	31.0	27.8

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1083
 Serial No. : N/A
 Test mode : WLAN_11a_W58_Tx

Standard : FCC Part.15 Subpart E
 Operator : T.Watanabe
 Temp,Hum,Atm : 22.5[°C] 65.8[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.161	47.2	16.9	10.5	57.7	27.4	65.4	55.4	7.7	28.0
2	0.170	46.4	15.9	10.5	56.9	26.4	65.0	55.0	8.1	28.6
3	0.172	46.2	15.6	10.5	56.7	26.1	64.9	54.9	8.2	28.8
4	0.175	40.4	12.7	10.5	50.9	23.2	64.7	54.7	13.8	31.5
5	0.524	12.8	-0.3	10.4	23.2	10.1	56.0	46.0	32.8	35.9
6	6.458	15.5	2.7	10.8	26.3	13.5	60.0	50.0	33.7	36.5

--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.165	47.3	17.0	10.6	57.9	27.6	65.2	55.2	7.3	27.6
2	0.177	46.2	15.9	10.5	56.7	26.4	64.6	54.6	7.9	28.2
3	0.179	46.0	15.5	10.5	56.5	26.0	64.5	54.5	8.0	28.5
4	0.184	45.7	15.3	10.5	56.2	25.8	64.3	54.3	8.1	28.5
5	0.536	24.0	6.4	10.4	34.4	16.8	56.0	46.0	21.6	29.2
6	14.289	17.2	10.3	11.6	28.8	21.9	60.0	50.0	31.2	28.1

4.8 Duty Cycle

4.8.1 Measurement procedure

[KDB 789033 D02, Section B, Zero-Span Spectrum Analyzer Method]

The duty cycle 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;

- RBW=8 MHz, VBW=8 MHz, Span=0 Hz, Sweep=Auto, Detector=Peak, Trace mode=Single

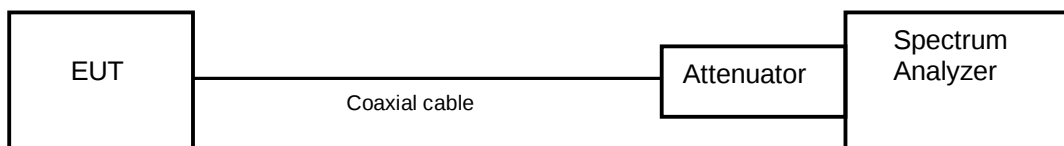
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.8.2 Limit

None

4.8.3 Measurement result

Date : 25-August-2021

Temperature : 25.1 [°C]

Humidity : 45.9 [%]

Test place : Shielded room No.4

Test engineer :

Tadahiro Seino

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11a	36	5180	1.344	1.382	0.973	744.0	0.121	0.242
	40	5200						
	48	5240						
	52	5260	1.340	1.380	0.971	746.3	0.128	0.255
	56	5280						
	64	5320						
	100	5500	1.344	1.382	0.973	744.0	0.121	0.242
	116	5580						
	140	5700						
	144	5720	1.344	1.378	0.975	744.0	0.108	0.217
	149	5745						
	157	5785						
	165	5825						

Note: X = On time / (On + Off time)

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (20MHz)	36	5180	1.258	1.298	0.969	794.9	0.136	0.272
	40	5200						
	48	5240						
	52	5260	1.260	1.298	0.971	793.7	0.129	0.258
	56	5280						
	64	5320						
	100	5500	1.258	1.294	0.972	794.9	0.123	0.245
	116	5580						
	140	5700						
	144	5720	1.260	1.296	0.972	793.7	0.122	0.245
	149	5745						
	157	5785						
	165	5825						

Note: X = On time / (On + Off time)

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (40MHz)	38	5190	0.628	0.664	0.946	1592.4	0.242	0.484
	46	5230						
	54	5270	0.628	0.666	0.943	1592.4	0.255	0.510
	62	5310						
	102	5510	0.627	0.664	0.944	1594.9	0.249	0.498
	110	5550						
	134	5670						
	142	5710	0.627	0.665	0.943	1594.9	0.256	0.511
	151	5755						
	159	5795						

Note: X = On time / (On + Off time)

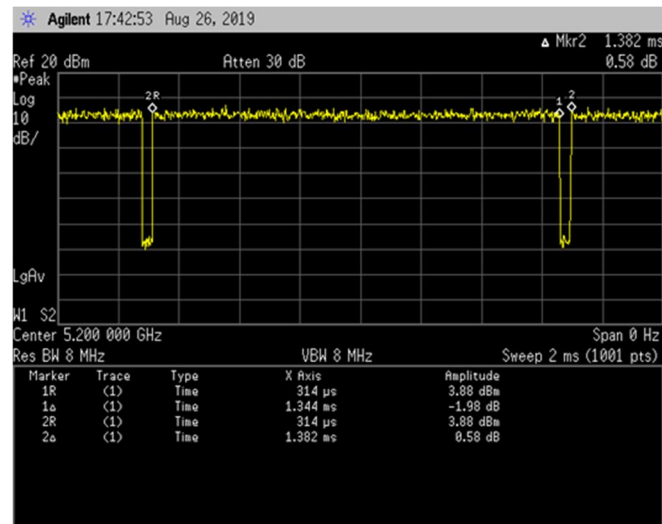
Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11ac (80MHz)	42	5210	0.315	0.352	0.896	3173.6	0.475	0.950
	58	5290	0.315	0.352	0.896	3173.6	0.475	0.950
	106	5530	0.315	0.352	0.894	3178.6	0.488	0.976
	122	5610	0.315	0.353	0.894	3173.6	0.488	0.977
	138	5690	0.316	0.353	0.895	3168.6	0.481	0.963
	155	5775	0.315	0.352	0.896	3173.6	0.475	0.950

Note: X = On time / (On + Off time)

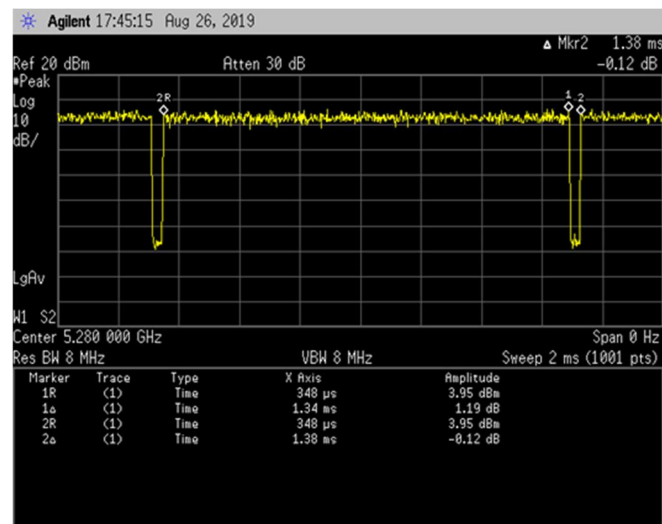
4.8.4 Trace data

[IEEE802.11a]

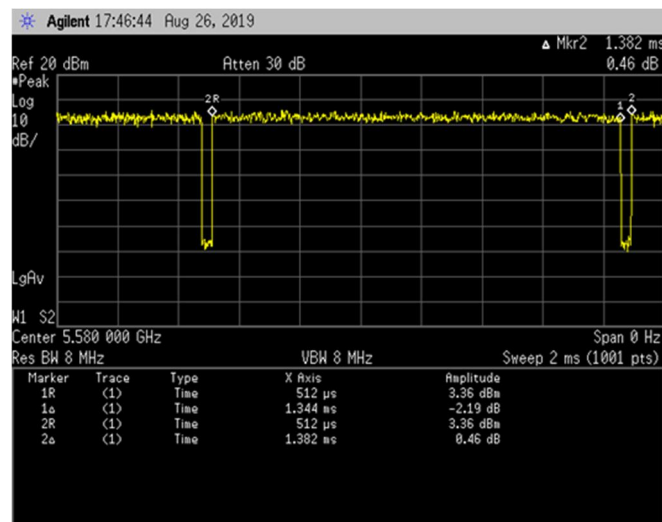
Channel: 40

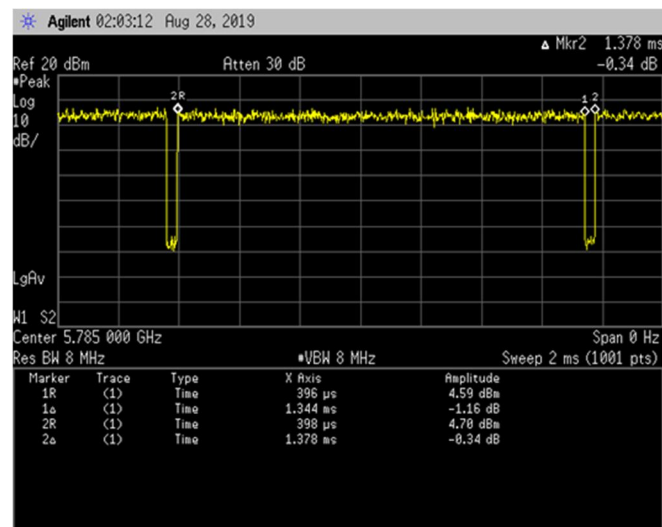


Channel: 56

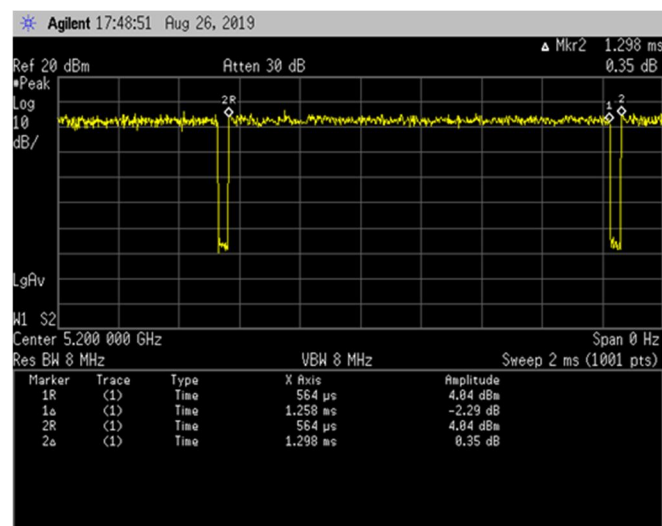
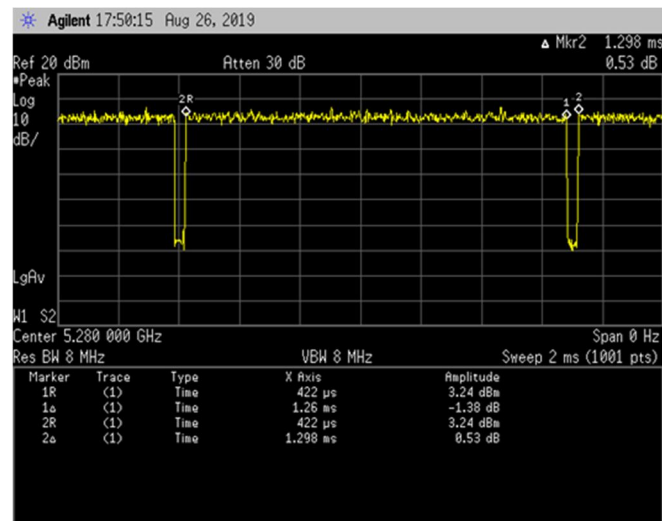


Channel: 116

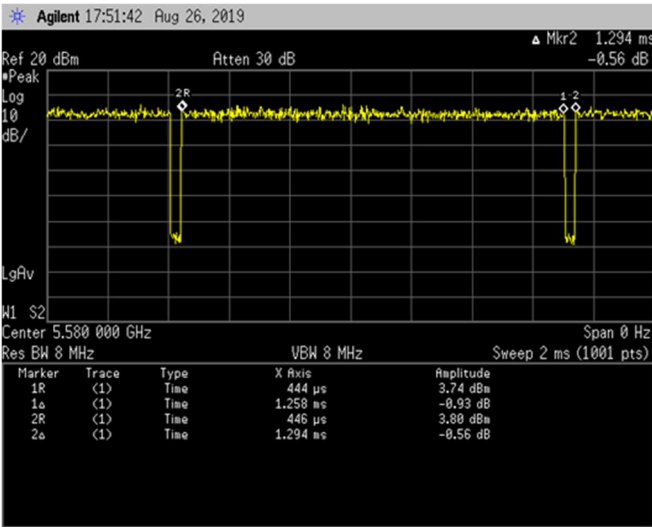


Channel: 157

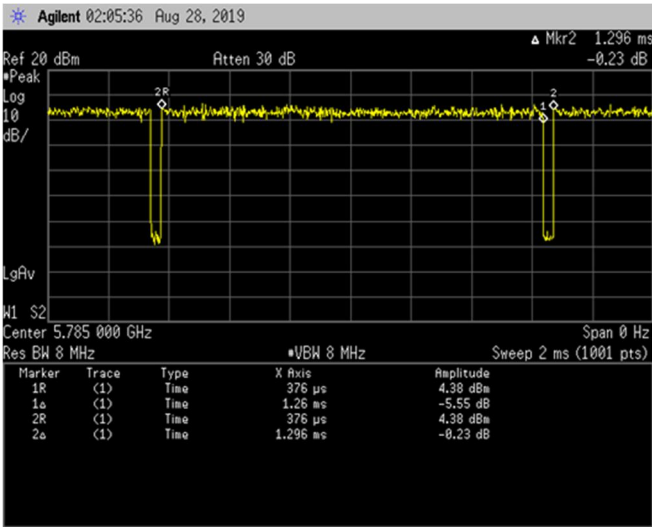
[IEEE802.11n (HT20)]

Channel: 40**Channel: 56**

Channel: 116

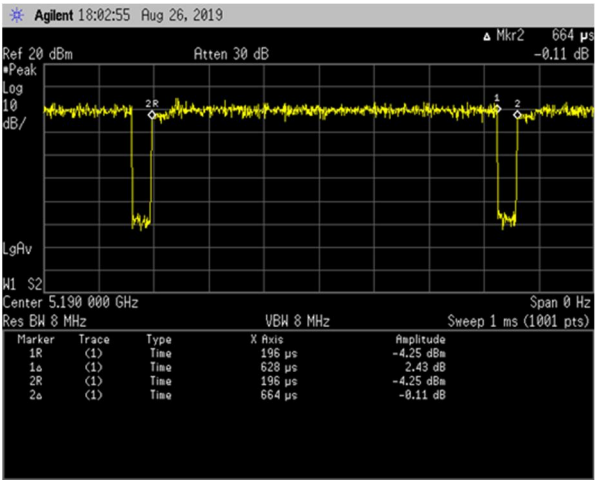


Channel: 157

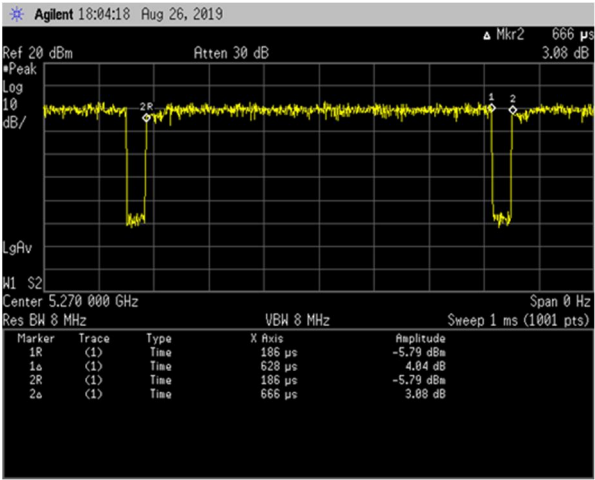


[IEEE802.11n (HT40)]

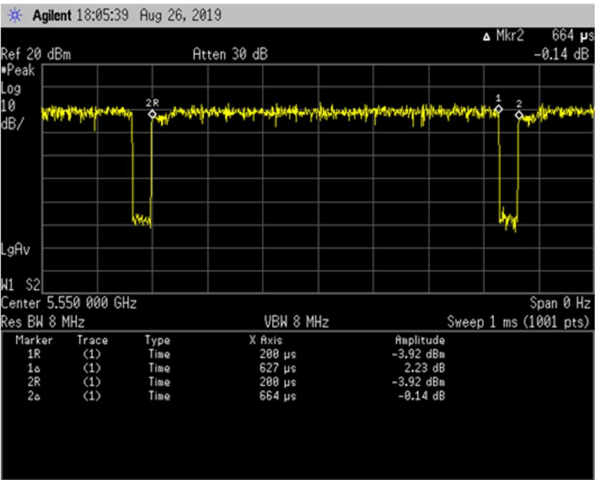
Channel: 38



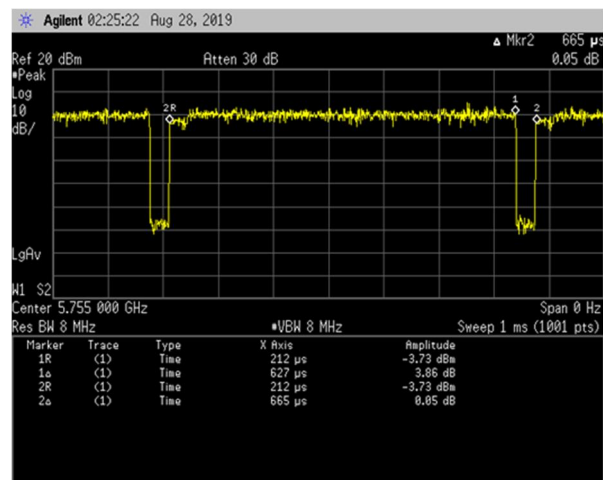
Channel: 54



Channel: 110

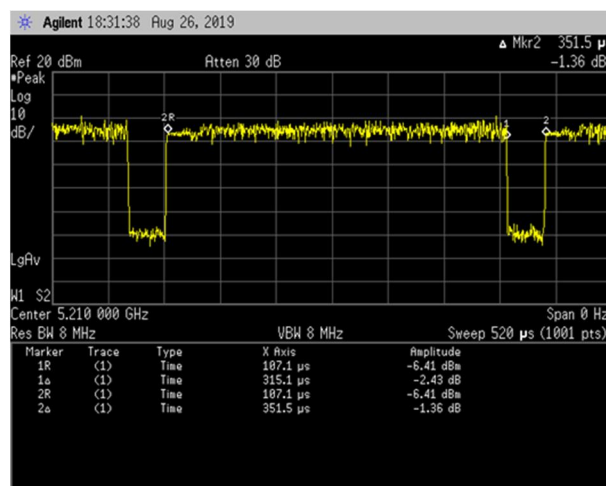


Channel: 151

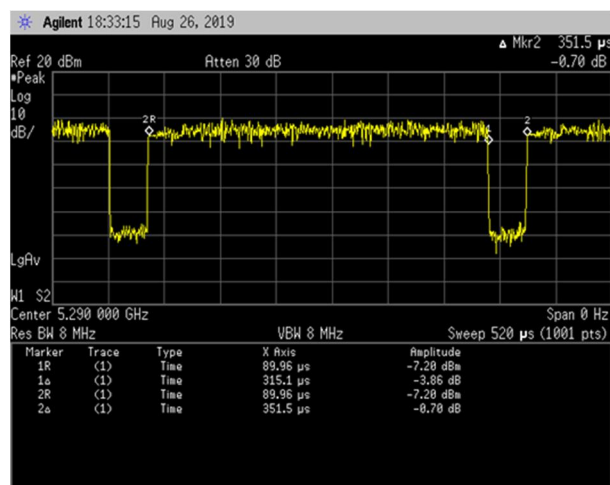


[IEEE802.11ac (HT80)]

Channel: 42

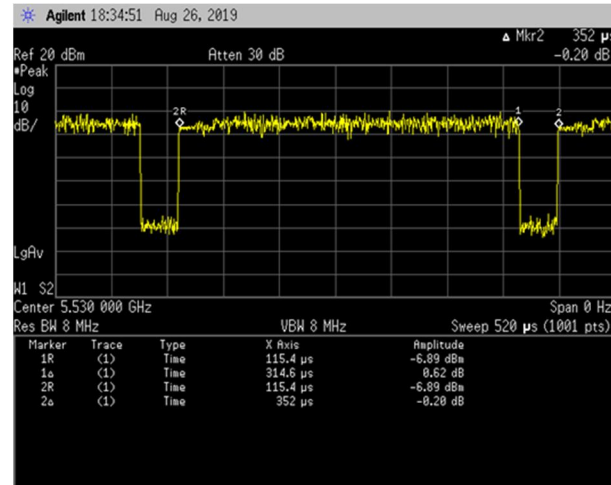


Channel: 58

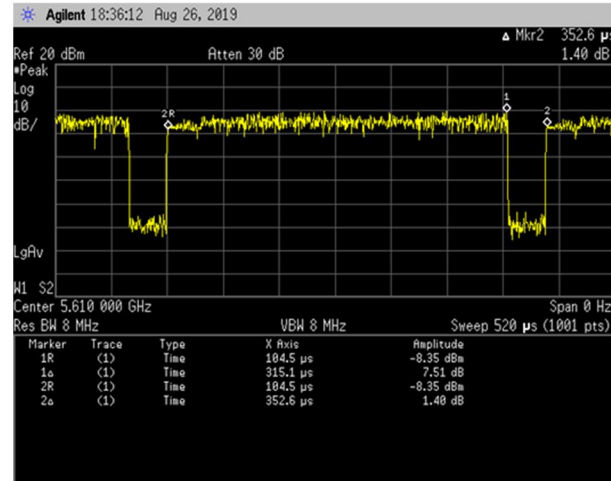


[IEEE802.11ac (HT80)]

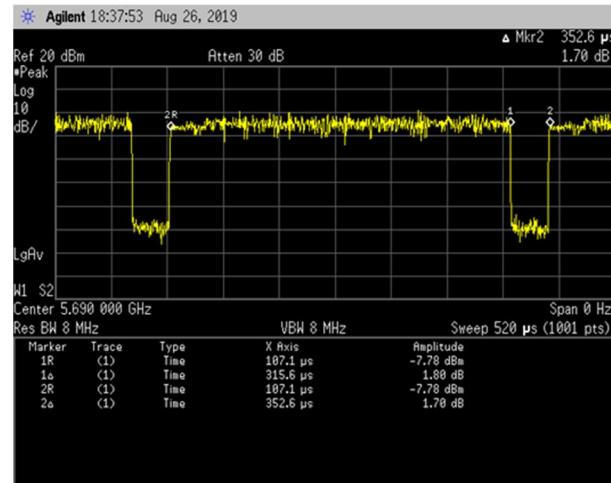
Channel: 106



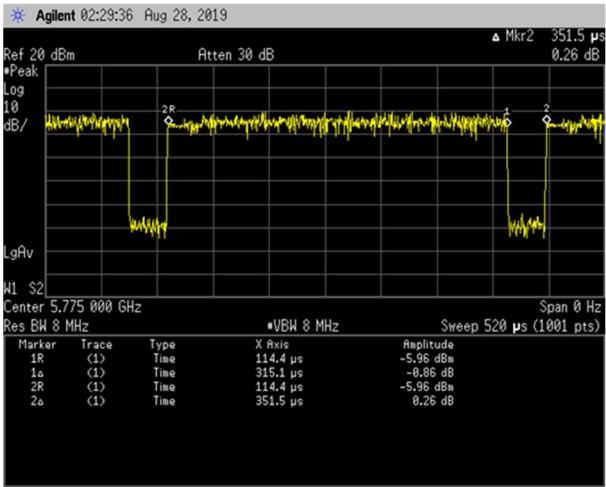
Channel: 122



Channel: 138



Channel: 155





Japan

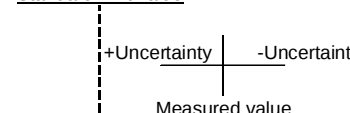
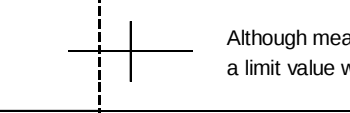
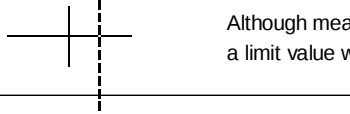
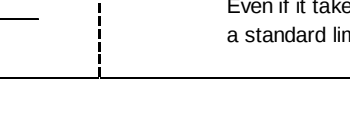
5 Antenna requirement

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)	± 3.4 dB
Radiated emission (9kHz – 30 MHz)	± 3.9 dB
Radiated emission (30 MHz – 1000 MHz)	± 4.9 dB
Radiated emission (1 GHz – 6 GHz)	± 4.6 dB
Radiated emission (6 GHz – 18 GHz)	± 4.9 dB
Radiated emission (18 GHz – 40 GHz)	± 5.8 dB
Radio Frequency	$\pm 1.4 \cdot 10^{-8}$
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 Case1  Even if it takes uncertainty into consideration, a standard limit value is fulfilled.	
	Standard limit value +Uncertainty -Uncertainty Measured value Case2  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 Case3  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 Case4  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

Accreditation and Registration

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

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

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

Registration number: A-0166

Appendix A. Test Equipment

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	31-Dec-2021	11-Dec-2020
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Aug-2021	20-Aug-2020
				30-Sep-2022	01-Sep-2021
Attenuator	Weinschel	56-10	J4180	31-Dec-2021	14-Dec-2020
Power meter	Keysight	N1911A	MY57390003	31-Mar-2022	10-Mar-2021
Power sensor	Keysight	N1921A	MY57370009	31-Mar-2022	10-Mar-2021

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2021	28-Sep-2020
				30-Sep-2022	15-Sep-2021
Spectrum analyzer	Agilent Technologies	E4447A	MY46180188	31-Mar-2022	11-Mar-2021
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	31-Dec-2021	11-Dec-2020
Spectrum analyzer	ROHDE&SCHWARZ	FSV40	101731	30-Jun-2022	08-Jun-2021
Preamplifier	SONOMA	310	372170	30-Sep-2021	29-Sep-2020
				30-Sep-2022	15-Sep-2021
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	100515	30-Apr-2022	27-Apr-2021
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1333	31-Dec-2021	15-Dec-2020
Log periodic antenna	Schwarzbeck	VUSLP9111B	345	31-Oct-2021	19-Oct-2020
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S541)	30-Sep-2021	29-Sep-2020
				30-Sep-2022	16-Sep-2021
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2022	20-Jul-2021
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Dec-2021	15-Dec-2020
Attenuator	AEROFLEX	26A-10	081217-08	31-Dec-2021	14-Dec-2020
Double ridged guide antenna	ETS LINDGREN	3117	00052315	31-Mar-2022	30-Mar-2021
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2340)	31-Dec-2021	15-Dec-2020
Double ridged guide antenna	A.H.Systems Inc.	SAS-574	469	30-Sep-2021	02-Sep-2020
				31-Aug-2022	02-Aug-2021
Preamplifier	TSJ	MLA-1840-B03-35	1240332	30-Sep-2021	02-Sep-2020
				31-Aug-2022	02-Aug-2021
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	MY30037/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/1m	my24610/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/8m	SN MY30033/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104	MY32976/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/1.5m	SN MY28404/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/7m	41625/6	31-Dec-2021	15-Dec-2020
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V6.0.140	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-2022	20-May-2021
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2022	20-May-2021

Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2021	28-Sep-2020
				30-Sep-2022	15-Sep-2021
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Dec-2021	15-Dec-2020
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Dec-2021	15-Dec-2020
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	TNW-407F2	12-17-110-2	30-Jun-2022	17-Jun-2021
Coaxial cable	FUJIKURA	5D-2W/4m	N/A (S350)	31-Dec-2021	15-Dec-2020
Coaxial cable	FUJIKURA	5D-2W/1m	N/A (S193)	31-Dec-2021	15-Dec-2020
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	31-Dec-2021	15-Dec-2020
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.