Report on the RF Testing of:

KYOCERA Corporation Tablet, Model: KC-T304C FCC ID: V65KC-T304C

In accordance with FCC Part 15 Subpart C

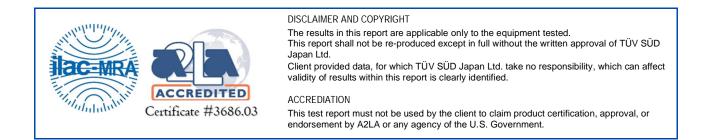
Prepared for: KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314

COMMERCIAL-IN-CONFIDENCE

Document Number: JPD-TR-21256-0

SIGNATURE			
	Kiroak Suga	uty	
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2021,12,17

EXECUTIVE SUMMARY – Result: Complied A sample(s) of this product was tested and the result above was confirmed in accordance with FCC Part 15 Subpart C.



TÜV SÜD Japan Ltd. Yonezawa Testing Center 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan Phone: +81 (0) 238 28 2881 www.tuvsud.com/ja-jp







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1 Summary of Test

1.1 Modification history of the test report

Ē	Document Number	Modification History	Issue Date
	JPD-TR-21256-0	First Issue	Refer to the cover page

1.2 Standards

CFR47 FCC Part 15 Subpart C

1.3 Test methods

ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Test item section	Test item	Condition	Result	Remark
15.247(a)(2)	6dB Bandwidth	Conducted	PASS	-
15.247(b)(3)	Maximum Peak Output Power	Conducted	PASS	-
15.247(d)	Band Edge Compliance of RF Conducted Emissions	Conducted	PASS	-
15.247(d)		Conducted	PASS	-
15.205 15.209	Spurious Emissions	Radiated	PASS	-
15.247(d) 15.205 15.209	Restricted Bands of Operation	Radiated	PASS	-
15.247(e)	Transmitter Power Spectral Density	Conducted	PASS	-
15.207	AC Power Line Conducted Emissions	Conducted	PASS	-

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

18-November-2021 - 6-December-2021



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)	Tablet
Model number	KC-T304C
Serial number	2695300160, 2695300163
Trade name	Kyocera
Number of sample(s)	2
EUT condition	Prototype
Power rating	Battery: DC 3.8 V
Size	(W) 259 mm × (D) 168 mm × (H) 8.6 mm
Environment	Indoor and Outdoor use
Terminal limitation	-20 °C to 60 °C
Hardware version	DMT1
Software version	1.011KC
Firmware version	Not applicable
RF Specification	
Protocol	Bluetooth 5.1 + EDR
Frequency range	2402 MHz-2480 MHz
Number of RF Channels	40 Channels
Modulation method/Data rate	GFSK (1 Mbps, 2Mbps),
	LongRange S2/S8 (500 kbps/125 kbps)
Channel separation	2 MHz
Conducted power	3.761 mW
Antenna type	Internal antenna
Antenna gain	1.2 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: KC-T304C, Serial Number: 2695300160, 2695300163				
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

2.4 Operating channels and frequencies

Channel	Frequency [MHz]	Channel	Frequency [MHz]
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480



2.5 Operating mode

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

Tested Channel	Frequency [MHz]
Low	2402
Middle	2440
High	2480

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

Tested Channel	Modulation Type	Data Rate
Low, Middle, High	GFSK	1 Mbps
Low, Middle, High	GFSK	2 Mbps
Low, Middle, High	GFSK, LongRange S2	500 kbp
Low, Middle, High	GFSK, LongRange S8	125 kbps

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.

2.6 Operating flow

[Tx mode]

- i) Test program setup to the Software
- ii) Select a Test mode
 Operating frequency: Channel Low: 2402 MHz, Channel Middle: 2440 MHz, Channel High: 2480 MHz
- iii) Start test mode

[Rx mode]

- i) Test program setup to the Software
- ii) Select a Test mode
 - Operating frequency: Channel Low: 2402 MHz, Channel Middle: 2440 MHz, Channel High: 2480 MHz
- iii) Start test mode



3 Configuration of Equipment

Numbers assigned to equipment on the diagram in "3.3 System configuration" correspond to the list in "3.1 Equipment used" and "3.2 Cable(s) used".

This test configuration is based on the manufacture's instruction.

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	Tablet	KYOCERA	KC-T304C	2695300160,	V65KC-T304C	EUT
				2695300163		
2	AC Adapter	KYOCERA	AD06KC	JJA	N/A	*

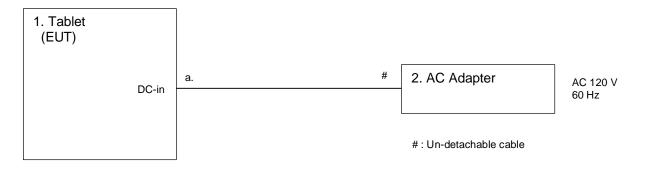
*: AC power line Conducted Emission Test.

3.2 Cable(s) used

No.	Equipment	Length[m]	Shield	Connector	Comment
а	DC cable for AC Adapter	1.2	No	Plastic	*
* * * •					

*: AC power line Conducted Emission Test.

3.3 System configuration





4 Test Result

4.1 6dB Bandwidth

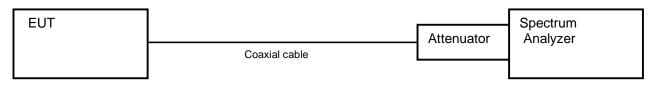
4.1.1 Measurement procedure

[FCC 15.247(a)(2), KDB558074 D01 v05r02]

The bandwidth at 6 dB down from the highest inband spectral density is measured with 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) RBW = 100 kHz
- b) VBW \geq 3 x RBW
- c) Sweep time = auto-couple
- d) Detector = peak
- e) Trace mode = max hold
 - Test configuration



4.1.2 Limit

The minimum permissible 6dB bandwidth is 500kHz.



4.1.3 Measurement result

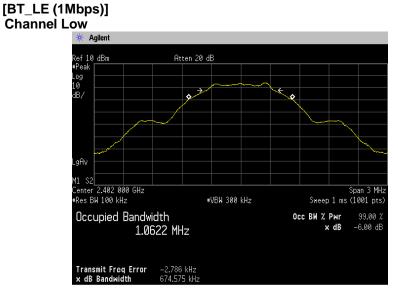
Date	:	1-December-2021
Temperature	:	23.1 [°C]
Humidity	:	38.4 [%]
Test place	:	Shielded room No.4

Test engineer :

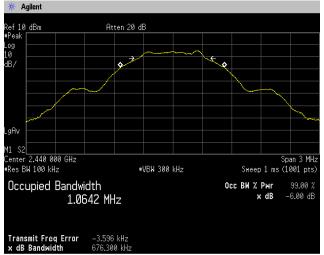
Kazunori Saito

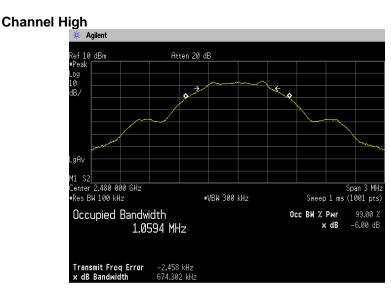
	6dB bandwidth [MHz]								
Channel	BT_LE								
	1Mbps	2Mbps	LongRange S2	LongRange S8					
Low	0.675	1.169	0.672	0.688					
Middle	0.676	1.168	0.670	0.687					
High	0.674	1.175	0.669	0.685					

4.1.4 Trace data



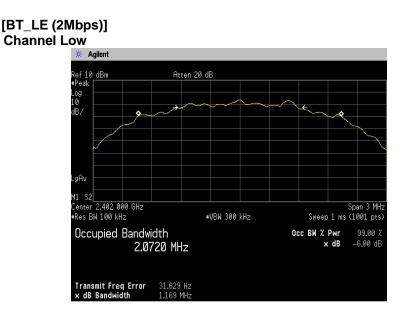
Channel Middle







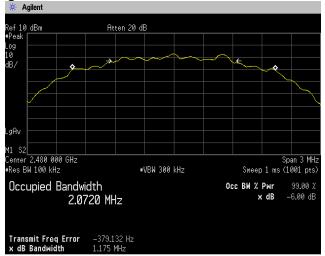




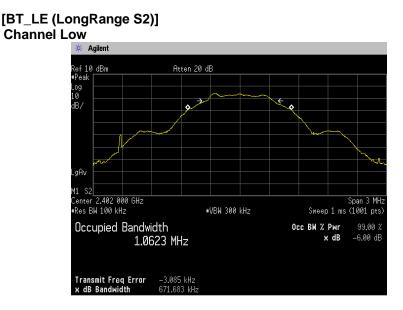
Channel Middle



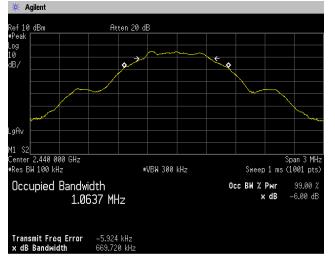
Channel High



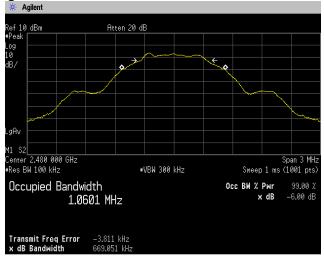




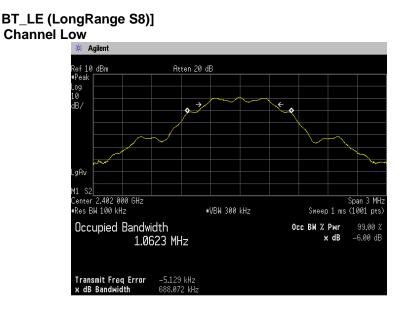
Channel Middle



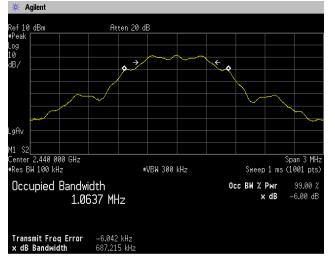
Channel High



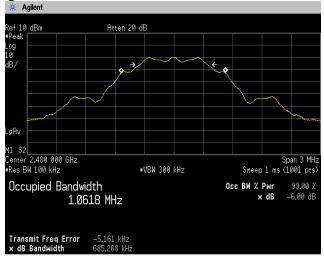




Channel Middle



Channel High





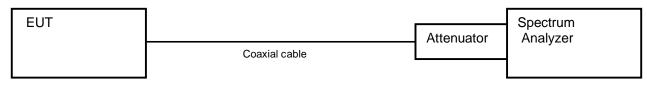
4.2 Maximum Peak Output Power

4.2.1 Measurement procedure

[FCC 15.247(b)(3), KDB558074 D01 v05r02]

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

- Test configuration



4.2.2 Limit

1 W(1000 mW) or less

4.2.3 Measurement result

Date	:	1-December-2021			
Temperature	:	23.1 [°C]			
Humidity	:	38.4 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

Battery Full (1Mbps)

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	-5.71	10.49	4.78	3.005	≦1000	PASS
Middle	2440	-4.79	10.49	5.70	3.716	≦1000	PASS
High	2480	-6.26	10.49	4.23	2.647	≦1000	PASS

Calculation;

Reading (dBm) + Factor (dB) = Level (dBm) $10\log P = Level (dBm)$ $P = 10^{(Maximum Peak Output Power / 10)} (mW)$



Battery Full (2Mbps)

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	-5.74	10.49	4.75	2.983	≦1000	PASS
Middle	2440	-4.78	10.49	5.71	3.726	≦1000	PASS
High	2480	-6.28	10.49	4.21	2.635	≦1000	PASS

Battery Full (LongRange S2)

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	-5.70	10.49	4.79	3.014	≦1000	PASS
Middle	2440	-4.74	10.49	5.75	3.761	≦1000	PASS
High	2480	-6.23	10.49	4.26	2.665	≦1000	PASS

Battery Full (LongRange S8)

Channel	Center Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	-5.82	10.49	4.67	2.932	≦1000	PASS
Middle	2440	-4.96	10.49	5.53	3.574	≦1000	PASS
High	2480	-6.31	10.49	4.19	2.621	≦1000	PASS

Calculation;

Reading (dBm) + Factor (dB) = Level (dBm) $10\log P = Level (dBm)$ $P = 10^{(Maximum Peak Output Power / 10)} (mW)$



4.3 Band Edge Compliance of RF Conducted Emissions

4.3.1 Measurement procedure

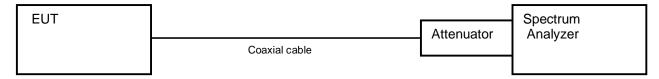
[FCC 15.247(d), KDB558074 D01 v05r02]

The Band Edge 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 = Arbitrary setting. (Setting suitable for measurement.)
- b) RBW = 100 kHz
- c) VBW ≥ 3 x RBW
- d) Sweep time = auto-couple
- e) Detector = peak
- f) Trace mode = max hold

- Test configuration



4.3.2 Limit

In any 100kHz bandwidth outside the frequency band the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

4.3.3 Measurement result

Date	:	1-December-2021			
Temperature	:	23.1 [°C]			
Humidity	:	38.4 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

[BT_LE (1Mbps)]

Channel	Frequency (MHz)	RF Power Level (dBm)	Band- edge Frequency (MHz)	Band- edge Level (dBm)	Difference Level (dBm)	Limit (dBm)	Result
Low	2402	-5.88	2399.75	-64.23	58.35	At least 20dB below from peak of RF	PASS
High	2480	-6.53	2483.55	-68.92	62.39	At least 20dB below from peak of RF	PASS



[BT_LE (2Mbps)]

Channel	Frequency (MHz)	RF Power Level (dBm)	Band- edge Frequency (MHz)	Band- edge Level (dBm)	Difference Level (dBm)	Limit (dBm)	Result
Low	2402	-6.64	2399.95	-38.15	31.51	At least 20dB below from peak of RF	PASS
High	2480	-6.99	2483.55	-64.44	57.45	At least 20dB below from peak of RF	PASS

[BT_LE (LongRange S2)]

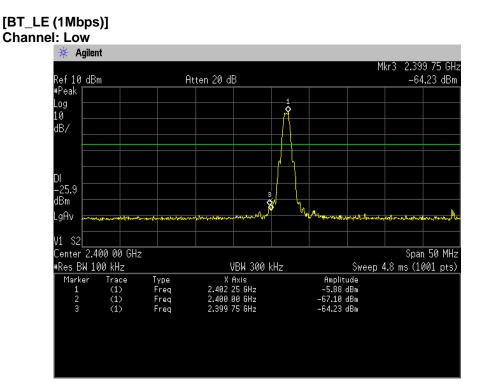
Channel	Frequency (MHz)	RF Power Level (dBm)	Band- edge Frequency (MHz)	Band- edge Level (dBm)	Difference Level (dBm)	Limit (dBm)	Result
Low	2402	-6.27	2399.75	-64.40	58.13	At least 20dB below from peak of RF	PASS
High	2480	-6.67	2490.30	-67.11	60.55	At least 20dB below from peak of RF	PASS

[BT_LE (LongRange S8)]

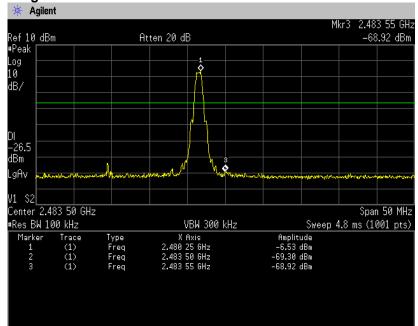
Channel	Frequency (MHz)	RF Power Level (dBm)	Band- edge Frequency (MHz)	Band- edge Level (dBm)	Difference Level (dBm)	Limit (dBm)	Result
Low	2402	-9.22	2399.90	-66.19	56.97	At least 20dB below from peak of RF	PASS
High	2480	-9.81	2483.60	-68.24	58.43	At least 20dB below from peak of RF	PASS



4.3.4 Trace data

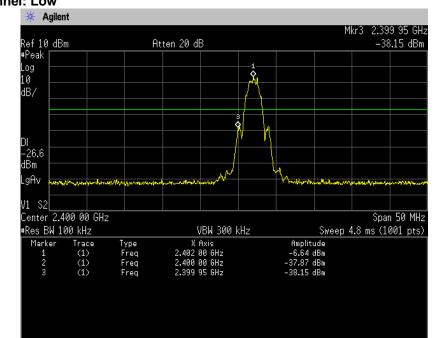




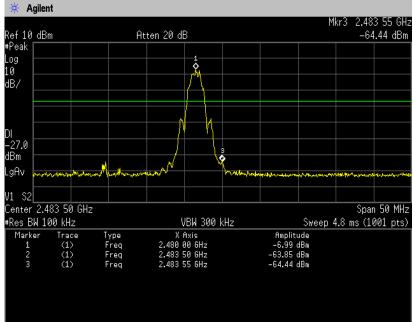




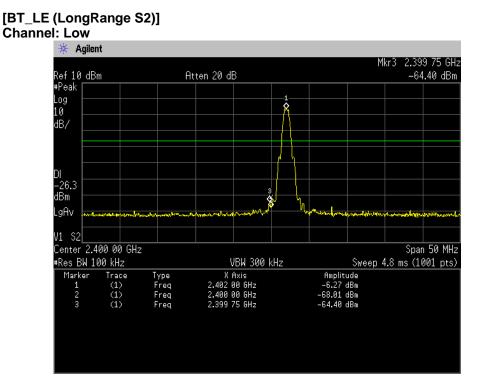




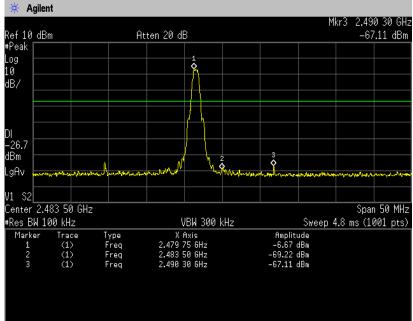




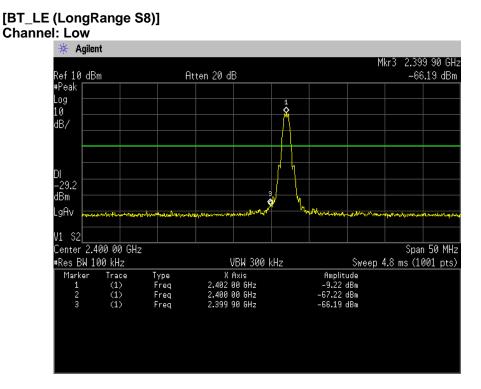




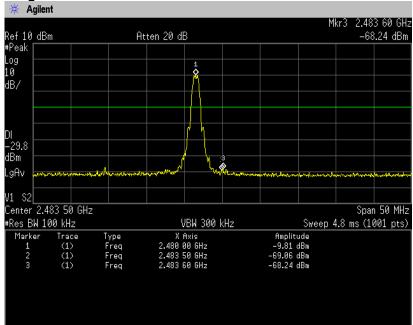














4.4 Spurious emissions - Conducted -

4.4.1 Measurement procedure

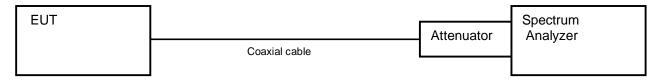
[FCC 15.247(d), KDB558074 D01 v05r02]

The spurious emissions (Conducted) are 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 = wide enough to fully capture the emission being measured.
- b) RBW = 100 kHz
- c) VBW ≥ RBW
- d) Sweep time = auto-couple
- e) Detector = peak
- f) Trace mode = max hold

- Test configuration



4.4.2 Limit

In any 100kHz bandwidth outside the frequency band the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

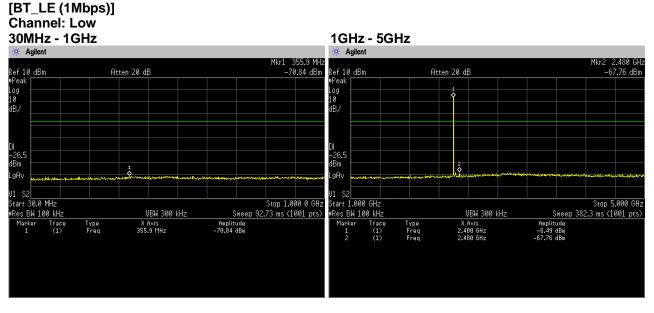
4.4.3 Measurement result

Date Temperature Humidity Test place	: 1-December-2021 : 23.1 [°C] : 38.4 [%] : Shielded room No.4	Test engineer	: Kazunori Saito
Date Temperature Humidity Test place	: 2-December-2021 : 21.2 [°C] : 32.6 [%] : Shielded room No.4	Test engineer	: Kazunori Saito

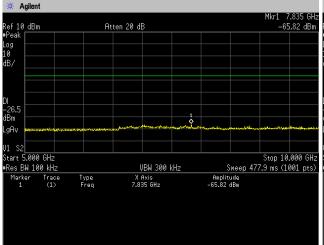
Channel	Frequency [MHz]	Limit [dB]	Results Chart	Result
Low	2402	At least 20dB below from peak of RF	See the trace Data	PASS
Middle	2440	At least 20dB below from peak of RF	See the trace Data	PASS
High	2480	At least 20dB below from peak of RF	See the trace Data	PASS



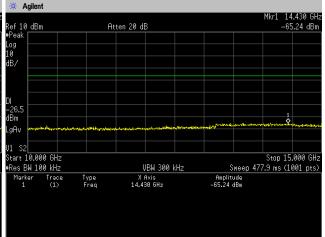
4.4.4 Trace data

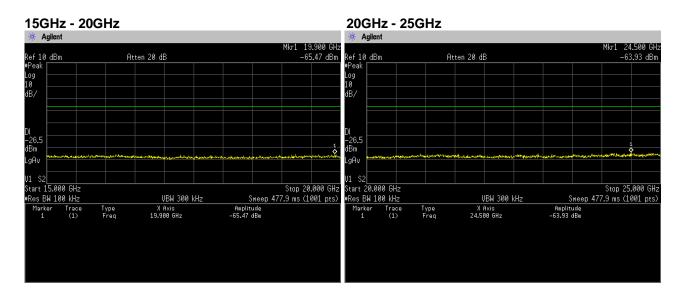


5GHz - 10GHz

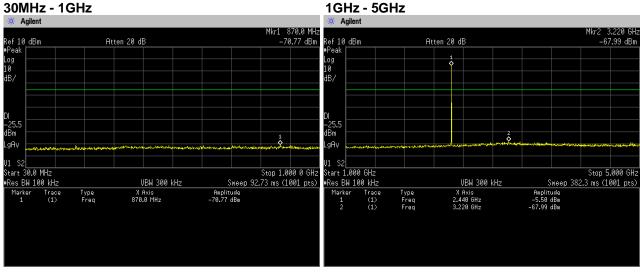


10GHz - 15GHz

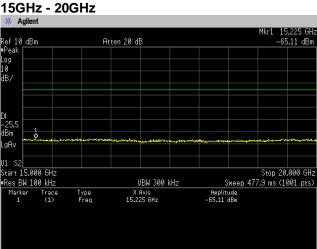




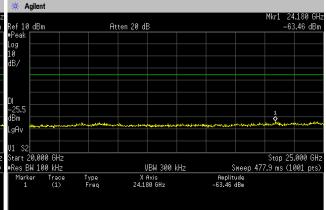
[BT_LE (1Mbps)] Channel: Middle 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen Anilen Mkr1 7.040 GHz -66.69 dBm Mkr1 13.335 GHz -64.93 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPeał irc. Log 10 dB/ Log 10 dB/ _25.5 dBm _gAv –25.5 dBm LgAv は V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.040 GHz Amplitude -66.69 dBm Marker Trace 1 (1) Type Freq X Axis 13.335 GHz Amplitude -64.93 dBm

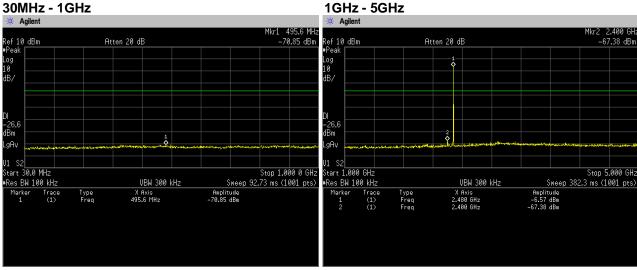


20GHz - 25GHz

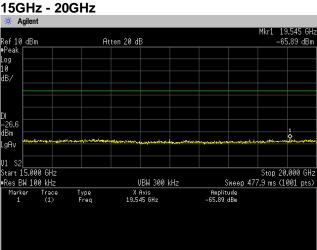




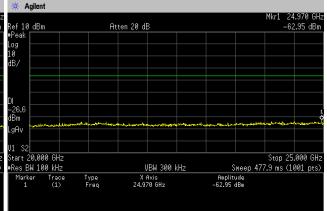
[BT_LE (1Mbps)] Channel: High 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen 4kr1 7.005 GHz -66.44 dBm Mkr1 14.350 GHz -63.92 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPea +Pc. Log 10 dB/ Log 10 dB/ 26.6 dBm -26.6 dBm LgAv \$ gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.005 GHz Amplitude -66.44 dBm Marker Trace 1 (1) Type Freq X Axis 14.350 GHz Amplitude -63.92 dBm

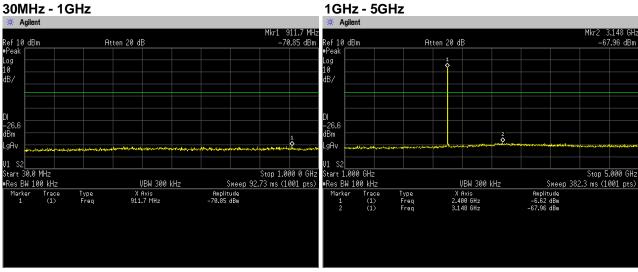


20GHz - 25GHz

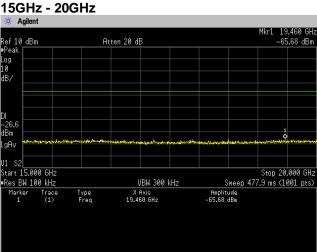




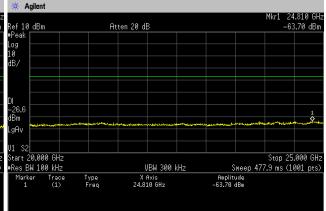
[BT_LE (2Mbps)] Channel: Low



5GHz - 10GHz 10GHz - 15GHz Aailen elinA 🔐 Mkr1 7.030 GHz -66.64 dBm Mkr1 14.310 GHz –65.33 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPea +Pc. Log 10 dB/ Log 10 dB/ -26.6 dBm -26.6 dBm LgAv \$ ĥ gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.030 GHz Amplitude -66.64 dBm Marker Trace 1 (1) Type Freq X Axis 14.310 GHz Amplitude -65.33 dBm



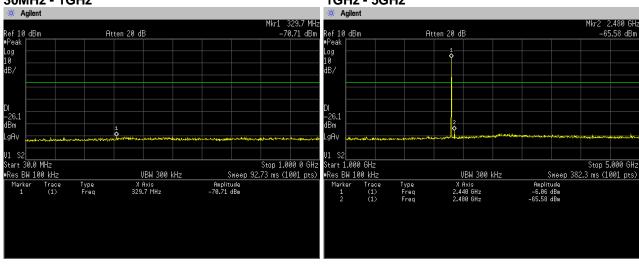
20GHz - 25GHz



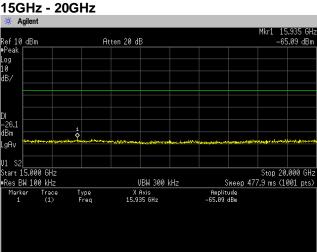




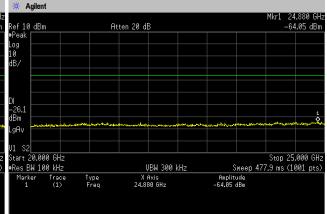
[BT_LE (2Mbps)] Channel: Middle 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen Anile A Mkr1 14.445 GHz -63.98 dBm 7.075 GHz -67.22 dBm 4kr1 Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Peal ŧPea Log 10 dB/ Log 10 –26.1 dBm -26.1 dBm LgAv 0 \$ gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.075 GHz Amplitude -67.22 dBm Marker Trace 1 (1) Type Freq X Axis 14.445 GHz Amplitude -63.98 dBm



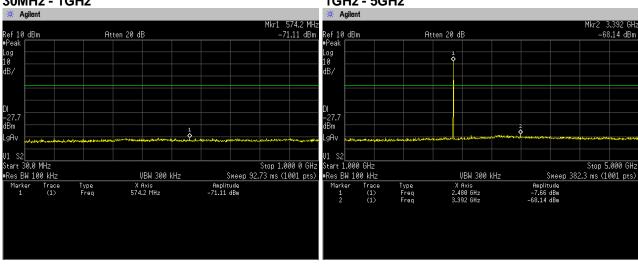
20GHz - 25GHz



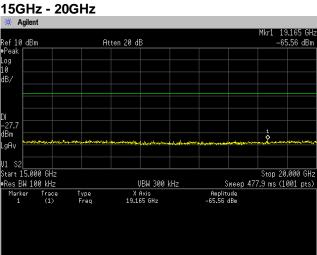
1GHz - 5GHz



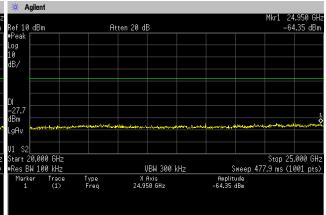
[BT_LE (2Mbps)] Channel: High 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen elinA 🔐 Mkr1 7.675 GHz -66.90 dBm Mkr1 13.285 GHz -63.99 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPea +Pc. Log 10 dB/ Log 10 dB/ 27.7 dBm -27.7 dBm LgAv \$ 1 gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.675 GHz Amplitude -66.90 dBm Marker Trace 1 (1) Type Freq X Axis 13.285 GHz Amplitude -63.99 dBm



20GHz - 25GHz

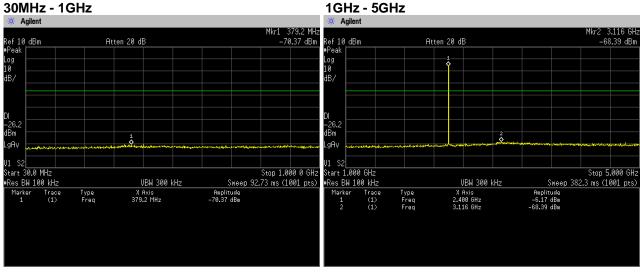


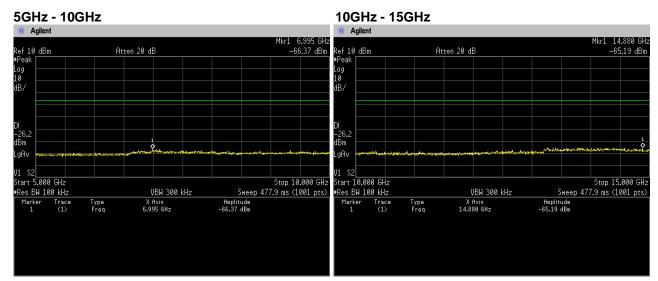
1GHz - 5GHz



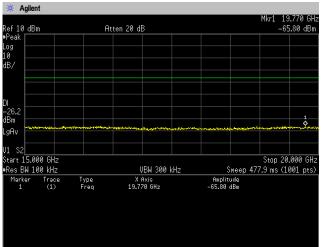


[BT_LE (LongRange S2)] Channel: Low 30MHz - 1GHz

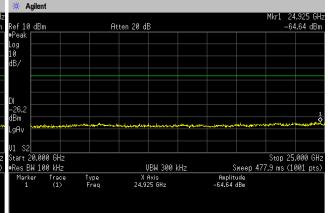






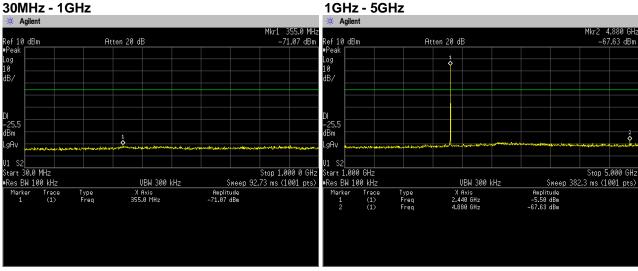


20GHz - 25GHz

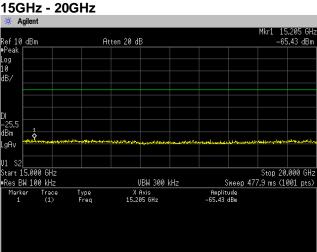




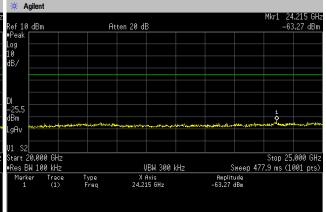
[BT_LE (LongRange S2)] Channel: Middle 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen Anile Mkr1 8.010 GHz -67.59 dBm Mkr1 13.630 GHz -65.19 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Peal ŧPea Log 10 dB/ Log 10 25.5 dBm –25.5 dBm LgAv gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 ri 52 Start 5.000 GHz Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 8.010 GHz Amplitude -67.59 dBm Marker Trace 1 (1) Type Freq X Axis 13.630 GHz Amplitude -65.19 dBm

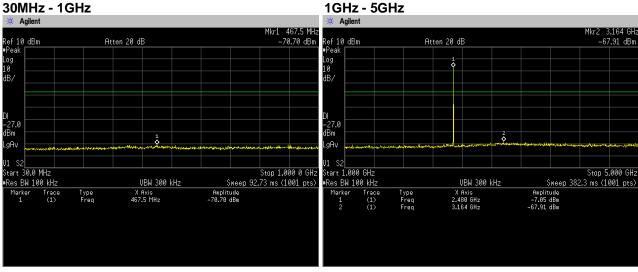


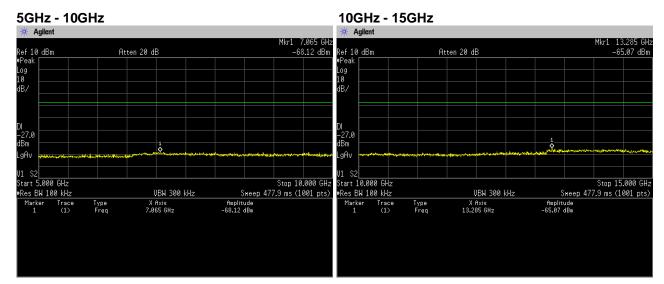
20GHz - 25GHz



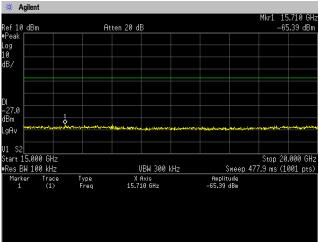


[BT_LE (LongRange S2)] Channel: High 30MHz - 1GHz

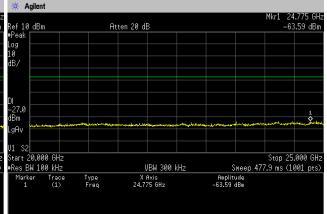




15GHz - 20GHz

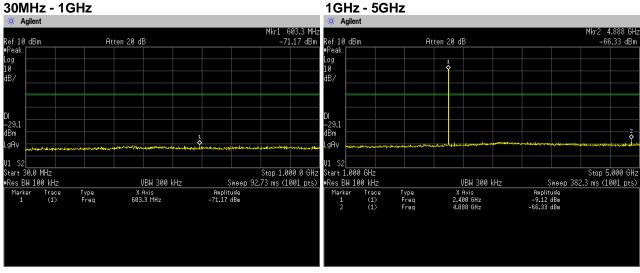


20GHz - 25GHz

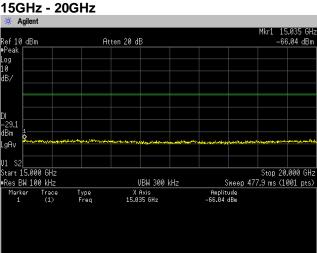




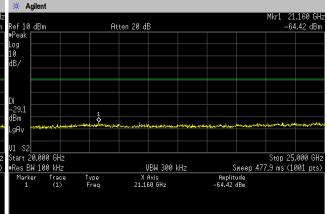
[BT_LE (LongRange S8)] Channel: Low 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen elinA 🔐 1kr1 7.020 GHz -67.64 dBm 4kr1 13.375 GHz -64.31 dBm Atten 20 dB Atten 20 dB Ref 10 dBm Ref 10 dBm Pea ŧPea irc. Log 10 dB/ Log 10 dB/ –29.1 dBm -29.1 dBm LgAv 1 gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 71 52 Start 5.000 GHz +Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.020 GHz Amplitude -67.64 dBm Marker Trace 1 (1) Type Freq X Axis 13.375 GHz Amplitude -64.31 dBm

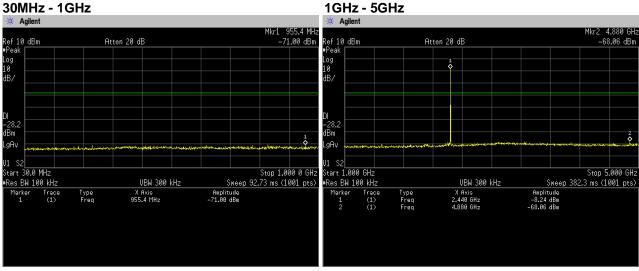


20GHz - 25GHz

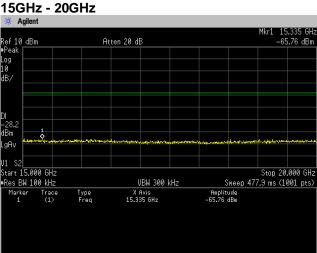




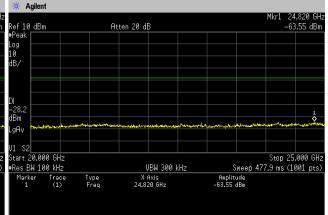
[BT_LE (LongRange S8)] Channel: Middle 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen elinA 🔐 4kr1 13.295 GHz -65.16 dBm 4kr1 6.830 GHz -67.84 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPea +Pc. Log 10 dB/ Log 10 dB/ 28.2 -28.2 dBm LgAv 1Bm 1 \$ gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 ri 52 Start 5.000 GHz Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 6.830 GHz Amplitude -67.84 dBm Marker Trace 1 (1) Type Freq X Axis 13.295 GHz Amplitude -65.16 dBm

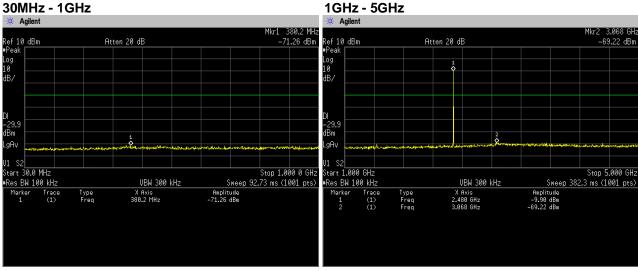


20GHz - 25GHz

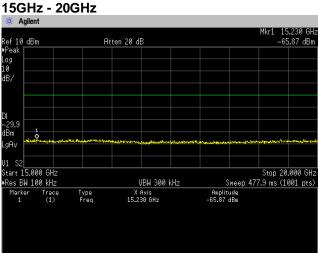




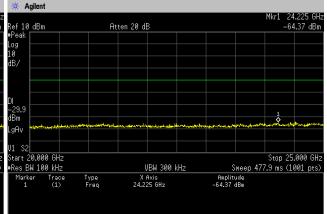
[BT_LE (LongRange S8)] Channel: High 30MHz - 1GHz



5GHz - 10GHz 10GHz - 15GHz Aailen Mkr1 7.010 GHz -66.90 dBm Mkr1 14.835 GHz -65.00 dBm Ref 10_dBm Atten 20 dB Atten 20 dB Ref 10 dBm Pea ŧPea +Pc. Log 10 dB/ Log 10 dB/ -29.9 dBm -29.9 dBm LgAv \$ gAv V1 S2 Start 10.000 GHz #Res BW 100 kHz 1 S2 ri 52 Start 5.000 GHz Res BW 100 kHz Stop 10.000 GHz Sweep 477.9 ms (1001 pts) Stop 15.000 GHz Sweep 477.9 ms (1001 pts) VBW 300 kHz VBW 300 kHz Marker Trace 1 (1) Type Freq X Axis 7.010 GHz Amplitude -66.90 dBm Marker Trace 1 (1) Type Freq X Axis 14.835 GHz Amplitude -65.00 dBm



20GHz - 25GHz





4.5 Spurious Emissions - Radiated -

4.5.1 Measurement procedure

[FCC 15.247(d), 15.205, 15.209, KDB558074 D01 v05r02]

Test was applied by following conditions.

Test method Frequency range Test place EUT was placed on	:	ANSI C63.10 9kHz to 25GHz 3m Semi-anechoic chamber Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m (below 1GHz) Styrofoam table / (W)0.6m × (D)0.6m ×(H)1.5m (above 1GHz)
Antenna distance	:	3m
Test receiver setting - Detector - Bandwidth Spectrum analyzer setting - Peak - Average	:	Below 1GHz Average (9kHz-90kHz, 110kHz-490kHz), Quasi-peak 200Hz, 120kHz Above 1GHz RBW=1MHz, VBW=3MHz, Span=0Hz, Sweep=auto RBW=1MHz, VBW=1kHz, Span=0Hz, Sweep=auto Display mode=Linear

Average Measurement Setting [VBW]

Mode	Duty Cycle (%)	T _{on} (us)	T _{off} (us)	1/T _{on} (kHz)	Determined VBW Setting
Bluetooth 5.1 LE (1Mbps)	85.00	2125	375	0.471	1kHz
Bluetooth 5.1 LE (2Mbps)	57.12	1071	804	0.934	1kHz
Bluetooth 5.1 LE (LongRange S2)	90.96	4550	452	0.220	1kHz
Bluetooth5.1 LE (LongRange S8)	97.37	17040	460	0.059	1kHz

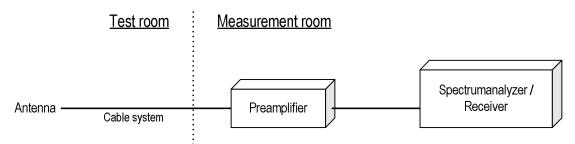
Although these tests were performed other than open area test site,

adequate comparison measurements were confirmed against 30 m open are 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 (Loop antenna, Biconical antenna, Log periodic antenna, Double ridged guide antenna and Broad-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/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



4.5.2 Calculation method

[9kHz to 150kHz] Emission level = Reading + (Ant factor + Cable system loss) Margin = Limit – Emission level

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

Example:

Limit @ 4804.0MHz: 74.0dBuV/m (Peak Limit) S.A Reading = 39.9dBuV Cable system loss = 8.3dB Result = 39.9 + 8.3 = 48.2dBuV/m Margin = 74.0 - 48.2 = 25.8dB

4.5.3 Limit

Frequency	Field s	Distance		
[MHz]	[uV/m]	[dBuV/m]	[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 1000MHz, 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.

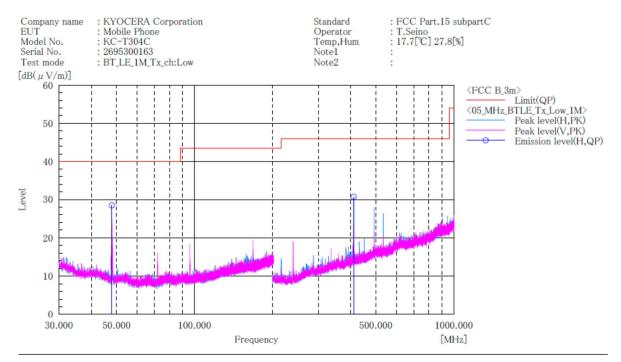


4.5.4 Test data

Date Temperature Humidity Test place	 18~19-November-2021 21.4 [°C] 31.8 [%] 3m Semi-anechoic chamber 	Test engineer	: Tadahiro Seino
Date Temperature Humidity Test place	 19~20-November-2021 23.7 [°C] 32.3 [%] 3m Semi-anechoic chamber 	Test engineer	: Tadahiro Seino
Date Temperature Humidity Test place	: 24~25-November-2021 : 21.7 [°C] : 28.3 [%] : 3m Semi-anechoic chamber	Test engineer	: Tadahiro Seino
Date Temperature Humidity Test place	 25~26-November-2021 22.7 [°C] 29.6 [%] 3m Semi-anechoic chamber 	Test engineer	: Tadahiro Seino
Date Temperature Humidity Test place	: 3~4-December-2021 : 17.7 [°C] : 27.8 [%] : 3m Semi-anechoic chamber	Test engineer	: Tadahiro Seino
Date Temperature Humidity Test place	 6-December-2021 20.3 [°C] 22.9 [%] 3m Semi-anechoic chamber 	Test engineer	: Tadahiro Seino



[Transmission mode] [BT_LE (1Mbps)] Channel: Low BELOW 1 GHz



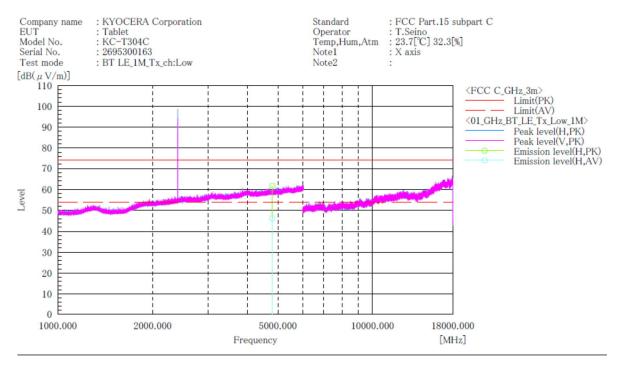
```
Final Result
```

No.	Frequency	(P)	Reading QP	c.f	Result	Limit	Margin QP	Height	Angle	Remark
1	[MHz] 410.870	Н	[dB(μV)] 42.0	[dB(1/m)] -11.3	$[dB(\mu V/m)]$ 30.7	$[dB(\mu V/m)]$ 46.0	[dB] 15.3	[cm] 100.0	[°] 278.0	
2	48.000	Н	44.2	-15.7	28.5	40.0	11.5	100.0	0.0	

- 1. Emission Level (Margin) = Limit [Reading + Factor (Antenna + Cable Amp)]
- 2. No emission were detected in frequency range 9kHz to 30MHz at the 3 meters distance.



[BT_LE (1Mbps)] Channel: Low ABOVE 1 GHz



Final Result

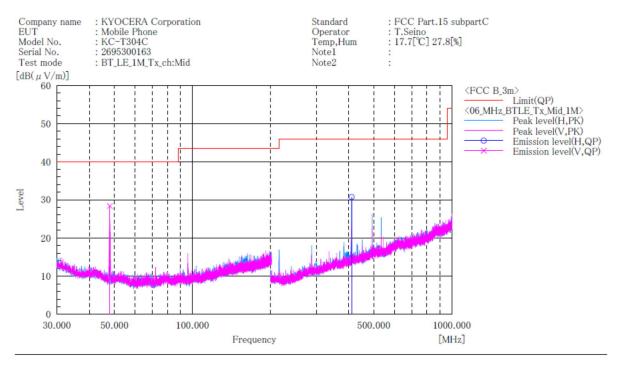
No.	Frequency		PK	AV		Result PK	Result AV	Limit PK	Limit	PK	Margin		Angle	Remark
1	[MHz] 4804.000	Н	[dB(µV)] 51.1	[dB(µV)] 35.6	[dB(1/m)] 10.6	[dB(µV/m)] 61.7	[dB(µV/m)] 46.2	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.3	[dB] 7.8	[cm] 190.0	[°] 343.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (1Mbps)] Channel: Middle BELOW 1 GHz



Final Result

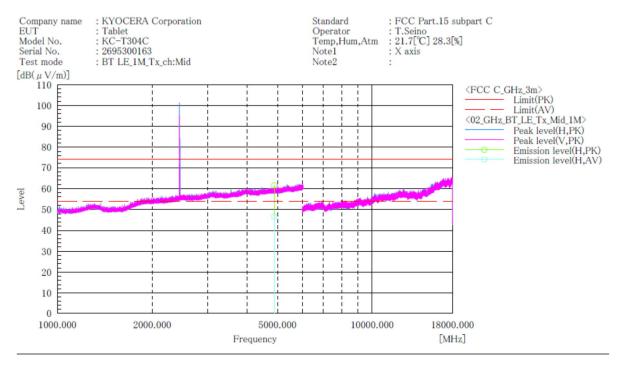
No.	Frequency	(P)	Reading QP	c.f	Result	Limit OP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	44.1	-15.7	28.4	40.0	11.6	100.0	0.0	
2	410.870	Н	42.0	-11.3	30.7	46.0	15.3	100.0	277.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (1Mbps)] Channel: Middle ABOVE 1 GHz



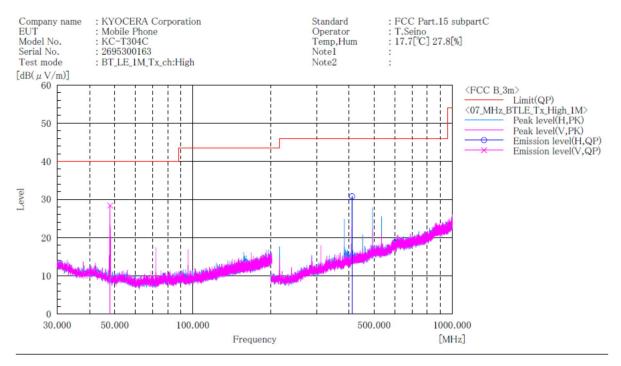
Final Result

No.	Frequency	(P)	Reading PK	Reading AV	c.f	Result PK	Result AV	Limit PK	Limit AV	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4880.000	H	[dB(μV)] 50.9	[dB(µV)] 35.9	[dB(1/m)] 10.7	[dB(µV/m)] 61.6	[dB(µV/m)] 46.6	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.4	[dB] 7.4	[cm] 186.0	[°] 341.0	

- 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.



[BT_LE (1Mbps)] Channel: High BELOW 1 GHz



Final Result

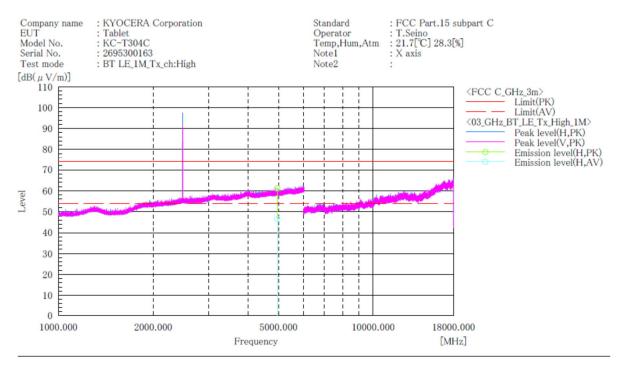
No.	Frequency	(P)	Reading QP	c.f	Result	Limit	Margin	Height	Angle	Remark
1	[MHz] 48.000	v		[dB(1/m)] -15.7		$\begin{bmatrix} dB (\mu V/m) \\ 40.0 \end{bmatrix}$	[dB] 11.6	[cm] 100.0	[°] 0.0	
2	410.870	Н	42.1	-11.3	30.8	46.0	15.2	100.0	275.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (1Mbps)] Channel: High ABOVE 1 GHz



Final Result

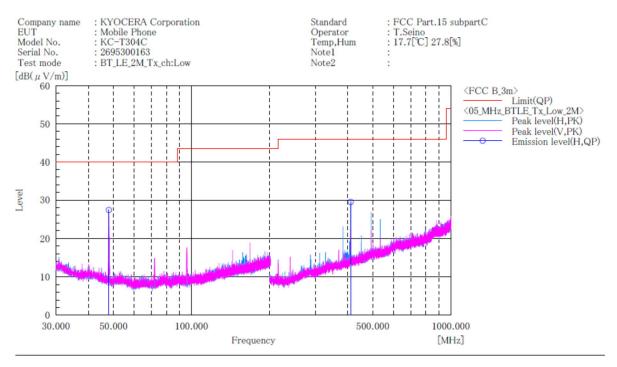
No.	Frequency	(P)	Reading PK	Reading AV	c. f	Result	Result	Limit	Limit AV	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4960.000	Н	[dB(µV)] 50.4	[dB(µV)] 35.7	[dB(1/m)] 10.8	[dB(µV/m)] 61.2	[dB(µV/m)] 46.5	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.8	[dB] 7.5	[cm] 177.0	[°] 338.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]



[BT_LE (2Mbps)] Channel: Low BELOW 1 GHz



Final Result

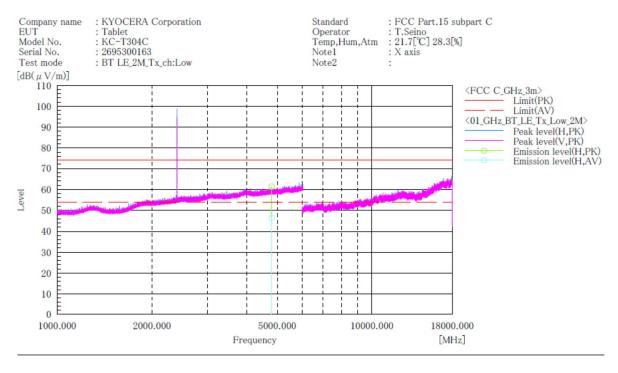
No.	Frequency	(P)	Reading QP	c.f	Result	Limit OP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	H	43.1	-15.7	27.4	40.0	12.6	100.0	0.0	
2	410.870	H	40.8	-11.3	29.5	46.0	16.5	100.0	273.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (2Mbps)] Channel: Low ABOVE 1 GHz



Final Result

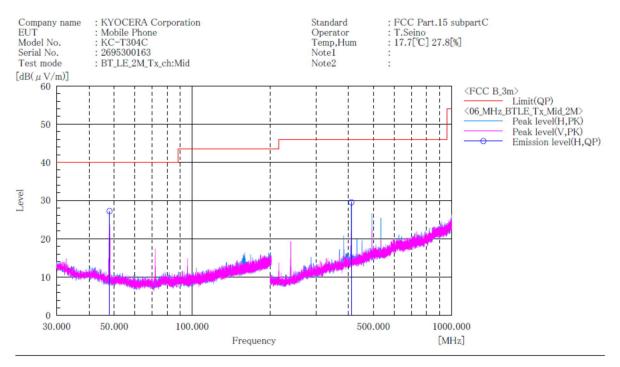
No.	Frequency	(P)	Reading PK	Reading	c. f	Result PK	Result	Limit PK	Limit	Margin PK	Margin AV	Height	Angle	Remark
1	[MHz] 4804.000	Н	[dB(µV)] 50.8	[dB(µV)] 35.8	[dB(1/m)] 10.6	[dB(µV/m)] 61.4	[dB(µV/m)] 46.4	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.6	[dB] 7.6	[cm] 185.0	[°] 337.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (2Mbps)] Channel: Middle BELOW 1 GHz



Final Result

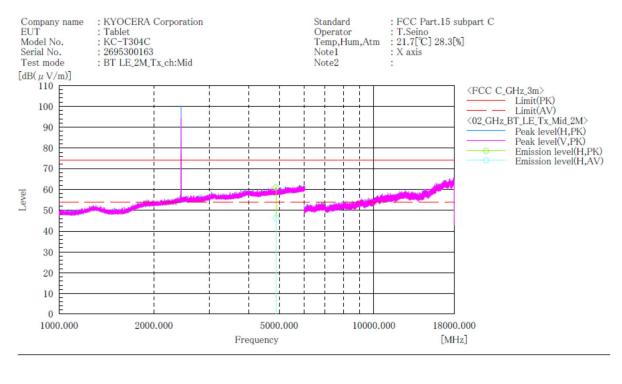
No.	Frequency	(P)	Reading QP	c.f	Result	Limit OP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	Н	42.9	-15.7	27.2	40.0	12.8	100.0	0.0	
2	410.870	Н	40.8	-11.3	29.5	46.0	16.5	100.0	274.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (2Mbps)] Channel: Middle ABOVE 1 GHz



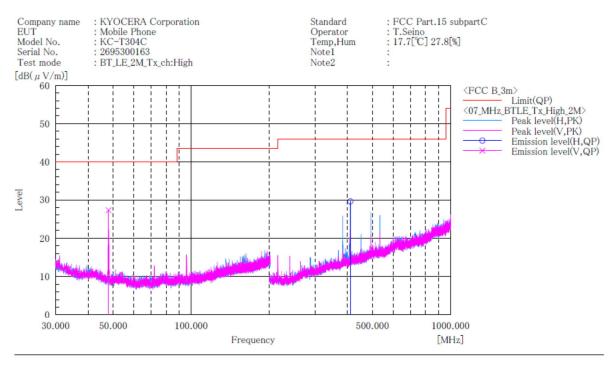
Final Result

No.	Frequency	(P)	PK	Reading AV	c. f	Result PK	Result	Limit PK	AV	Margin PK	AV	Height	Angle	Remark
1	[MHz] 4880.000	Н	[dB(µV)] 50.3	[dB(µV)] 35.6	[dB(1/m)] 10.7	[dB(µV/m)] 61.0	[dB(µV/m)] 46.3	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 13.0	[dB] 7.7	[cm] 173.0	[°] 340.0	

- 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.



[BT_LE (2Mbps)] Channel: High BELOW 1 GHz



Final Result

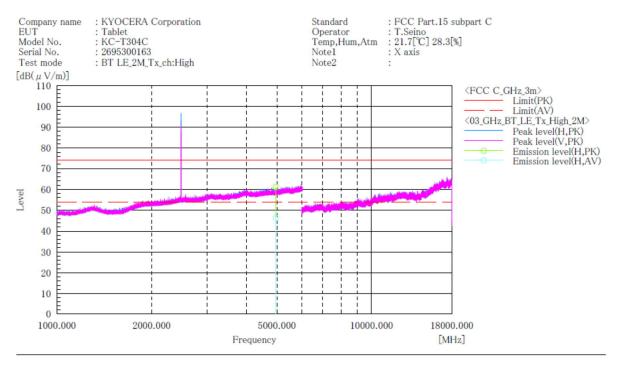
No.	Frequency	(P)	Reading QP	c.f	Result	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	43.0	-15.7	27.3	40.0	12.7	100.0	0.0	
2	410.870	H	40.9	-11.3	29.6	46.0	16.4	100.0	279.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (2Mbps)] Channel: High ABOVE 1 GHz



Final Result

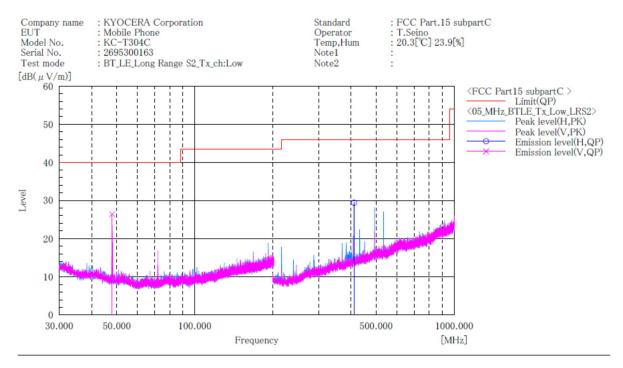
No.	Frequency	(P)	PK	Reading	c. f	Result PK	Result AV	Limit	Limit	PK	Margin AV	Height	Angle	Remark
1	[MHz] 4960.000	Н	[dB(µV)] 50.4		[dB(1/m)] 10.8		[dB(µV/m)] 46.3	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.8	[dB] 7.7	[cm] 157.0	[°] 339.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S2)] Channel: Low BELOW 1 GHz



Final Result

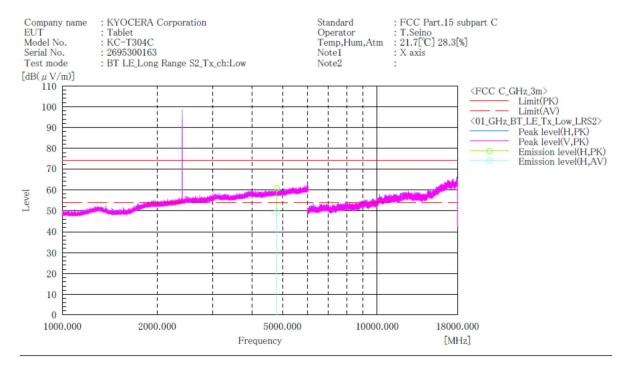
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	42.1	-15.7	26.4	40.0	13.6	100.0	0.0	
2	410.870	Н	40.7	-11.3	29.4	46.0	16.6	100.0	274.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S2)] Channel: Low ABOVE 1 GHz



Final Result

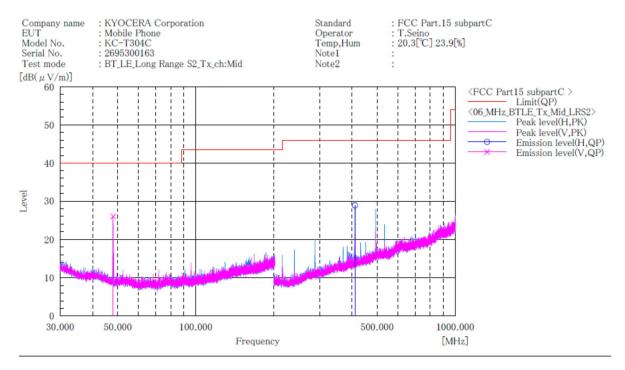
No.	Frequency	(P)	Reading PK	Reading	c.f	Result PK	Result	Limit PK	Limit	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4804.000	Н	[dB(µV)] 50.2	[dB(µV)] 38.6	[dB(1/m)] 10.6	[dB(µV/m)] 60.8	[dB(µV/m)] 49.2	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 13, 2	[dB] 4.8	[cm] 158.0	[°] 347.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S2)] Channel: Middle BELOW 1 GHz



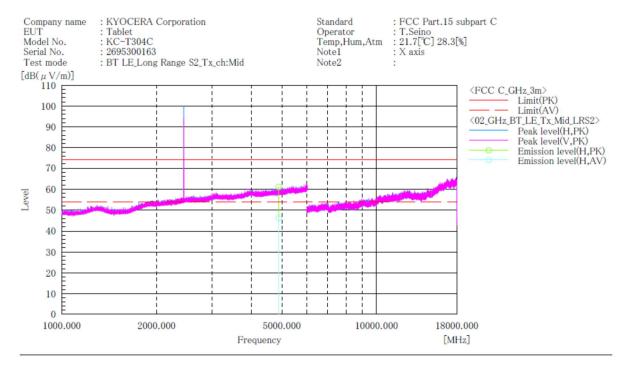
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	41.7	-15.7	26.0	40.0	14.0	100.0	0.0	
2	410.870	Н	40.2	-11.3	28.9	46.0	17.1	100.0	275.0	

- 1. Emission Level (Margin) = Limit [Reading + Factor (Antenna + Cable Amp)]
- 2. No emission were detected in frequency range 9kHz to 30MHz at the 3 meters distance.



[BT_LE (LongRange S2)] Channel: Middle ABOVE 1 GHz



Final Result

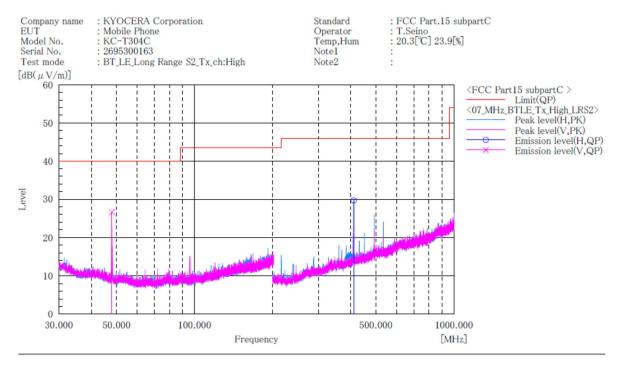
No.	Frequency	(P)	Reading PK	Reading	c. f	Result	Result	Limit	Limit	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4880,000	H	[dB(µV)] 50.4	[dB(µV)] 35.5	[dB(1/m)] 10.7	[dB(µV/m)] 61.1	[dB(µV/m)] 46.2	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.9	[dB] 7.8	[cm] 174.0	[°] 343.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S2)] Channel: High BELOW 1 GHz



Final Result

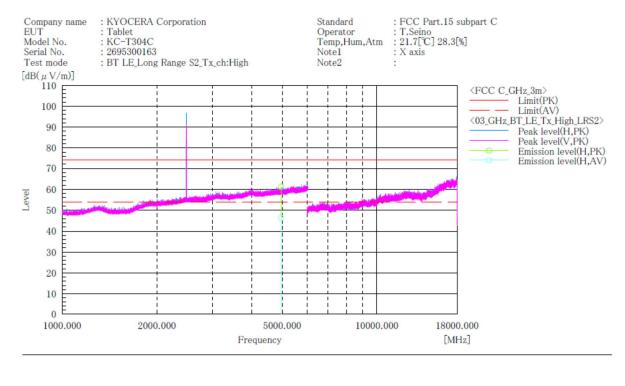
No.	Frequency	(P)	Reading QP	c.f	Result	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	42.3	-15.7	26.6	40.0	13.4	100.0	0.0	
2	410.870	H	41.0	-11.3	29.7	46.0	16.3	100.0	279.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S2)] Channel: High ABOVE 1 GHz



Final Result

No.	Frequency	(P)	Reading	Reading	c. f	Result PK	Result	Limit	Limit	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4960,000	Н	[dB(µV)] 50.5	[dB(µV)] 35.6	[dB(1/m)] 10.8	[dB(µV/m)] 61.3	[dB(µV/m)] 46.4	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.7	[dB] 7.6	[cm] 160.0	[°] 341.0	

Note:

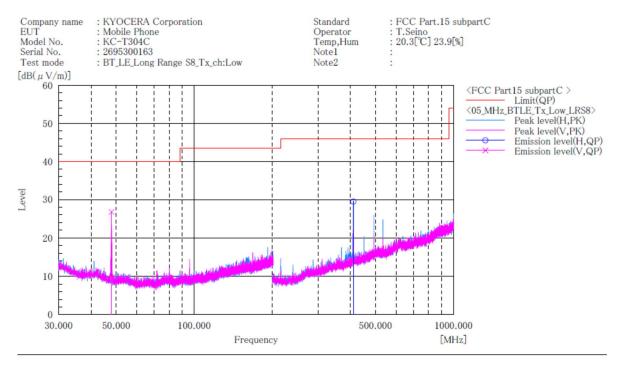
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]

2. No emission were detected in frequency range 18GHz to 25GHz at the 3 meters distance.

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[BT_LE (LongRange S8)] Channel: Low BELOW 1 GHz



Final Result

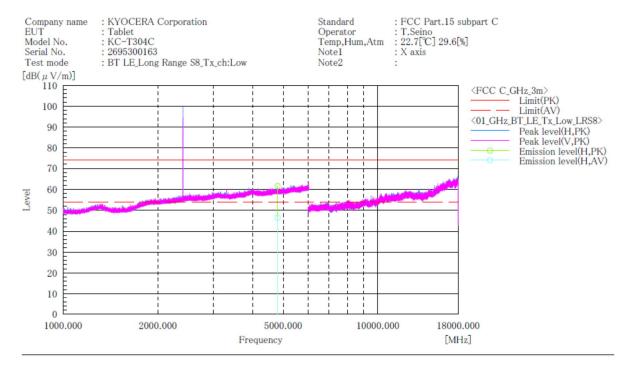
No.	Frequency	(P)	Reading QP	c.f	Result	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	42.5	-15.7	26.8	40.0	13.2	100.0	0.0	
2	410.870	Н	40.8	-11.3	29.5	46.0	16.5	100.0	277.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S8)] Channel: Low ABOVE 1 GHz



Final Result

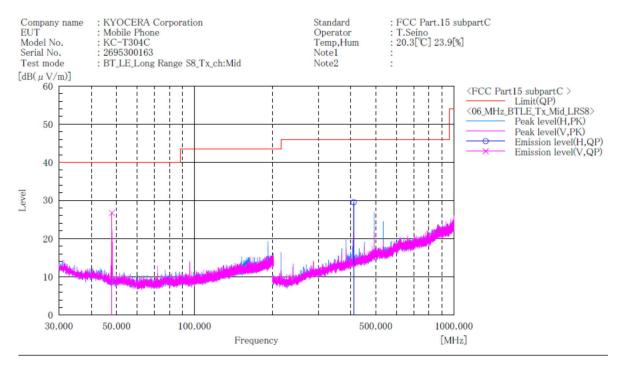
No.	Frequency	(P)	Reading	Reading	c. f	Result	Result	Limit	Limit	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4804.000	Н	[dB(µV)] 51.0	[dB(µV)] 35.9	[dB(1/m)] 10.6	[dB(µV/m)] 61.6	[dB(µV/m)] 46.5	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.4	[dB] 7.5	[cm] 158.0	[°] 345.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S8)] Channel: Middle BELOW 1 GHz



Final Result

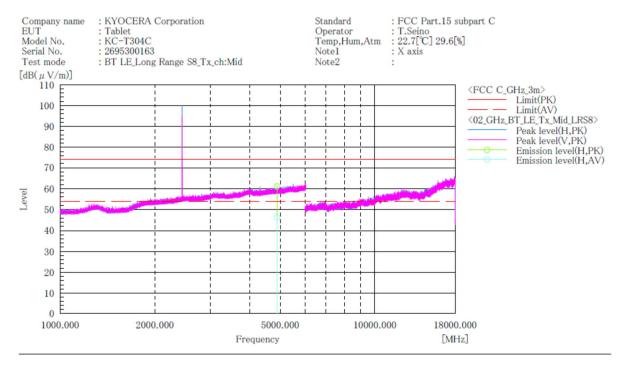
No.	Frequency	(P)	Reading QP	c.f	Result	Limit	Margin QP	Height	Angle	Remark
	[MHz]			[dB(1/m)]		$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	42.4	-15.7	26.7	40.0	13.3	100.0	0.0	
2	410.870	H	40.8	-11.3	29.5	46.0	16.5	100.0	276.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



[BT_LE (LongRange S8)] Channel: Middle ABOVE 1 GHz



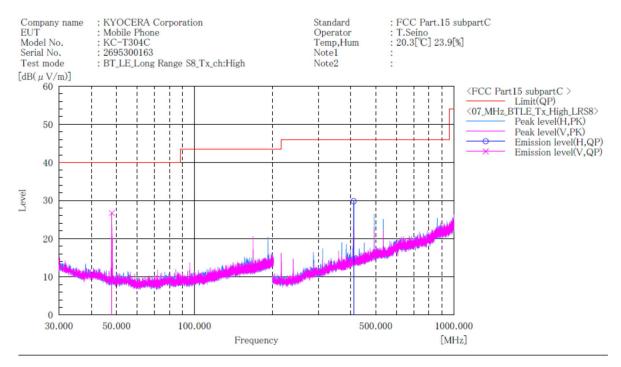
Final Result

No.	Frequency	(P)	Reading PK	Reading AV	c. f	Result	Result	Limit PK	Limit	Margin PK	AV		Angle	Remark
1	[MHz] 4880.000	Н	[dB(µV)] 50.5	[dB(μV)] 35.7	[dB(1/m)] 10.7	[dB(µV/m)] 61.2	[dB(µV/m)] 46.4	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.8	[dB] 7.6	[cm] 177.0	[°] 342.0	

- 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.



[BT_LE (LongRange S8)] Channel: High BELOW 1 GHz



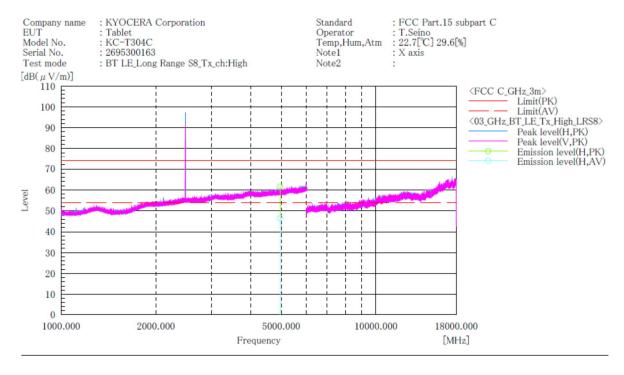
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	42.4	-15.7	26.7	40.0	13.3	100.0	0.0	
2	410.870	H	41.1	-11.3	29.8	46.0	16.2	100.0	277.0	

- 1. Emission Level (Margin) = Limit [Reading + Factor (Antenna + Cable Amp)]
- 2. No emission were detected in frequency range 9kHz to 30MHz at the 3 meters distance.



[BT_LE (LongRange S8)] Channel: High ABOVE 1 GHz



Final Result

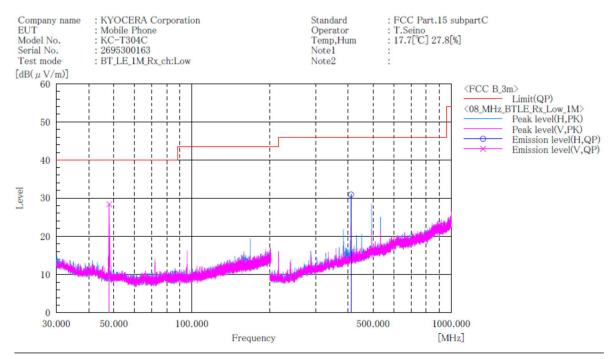
No.	Frequency	(P)	Reading PK	Reading AV	c. f	Result PK	Result AV	Limit PK	Limit	Margin PK	Margin	Height	Angle	Remark
1	[MHz] 4960.000	Н	[dB(µV)] 50.7	[dB(μV)] 35.7	[dB(1/m)] 10.8	[dB(µV/m)] 61.5	[dB(µV/m)] 46.5	[dB(µV/m)] 74.0	[dB(µV/m)] 54.0	[dB] 12.5	[dB] 7.5	[cm] 177.0	[°] 338.0	

- 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.



[Receive mode]

Channel: Low BELOW 1 GHz



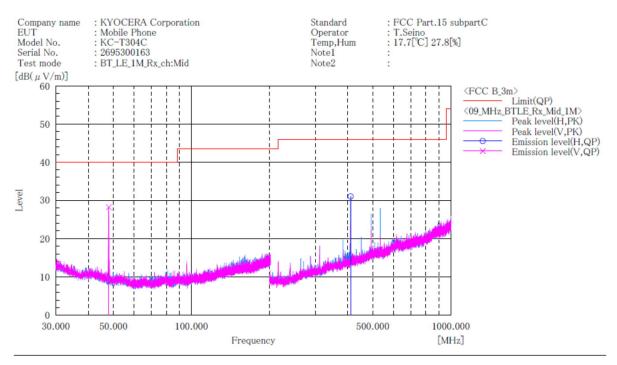
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	44.1	-15.7	28.4	40.0	11.6	100.0	0.0	
2	410.870	Н	42.2	-11.3	30.9	46.0	15.1	100.0	273.0	

- 1. Emission Level (Margin) = Limit [Reading + Factor (Antenna + Cable Amp)]
- 2. No emission were detected in frequency range 9kHz to 30MHz and 1GHz to 25GHz at the 3 meters distance.



Channel: Middle BELOW 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	48.000	V	43.9	-15.7	28.2	40.0	11.8	100.0	0.0	
2	410.870	Н	42.3	-11.3	31.0	46.0	15.0	100.0	270.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]



: KYOCERA Corporation : Mobile Phone : FCC Part.15 subpartC Standard Company name EUT : T.Seino : 17.7[°C] 27.8[%] Operator Model No. : KC-T304C : 2695300163 Temp,Hum Serial No. Test mode Notel : BT_LE_1M_Rx_ch:High Note2 [dB(µ V/m)] 60 <FCC B_3m>
Limit(QP)
<10_MHz_BTLE_Rx_High_1M>
Peak level(H,PK) 50 Peak level(V,PK) Emission level(H,QP) Emission level(V,QP) 40 Level 30 20 10 0 50.000 100.000 500.000 1000.000 30.000 [MHz] Frequency

Channel: High BELOW 1 GHz

Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
12	[MHz] 48.000 410.870	V	[dB(µV)] 43.6 42.1	[dB(1/m)] -15.7 -11.3		$\begin{bmatrix} dB(\mu V/m) \end{bmatrix}$ 40.0 46.0	[dB] 12.1 15.2	[cm] 100.0 100.0	[°] 0.0 274.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]