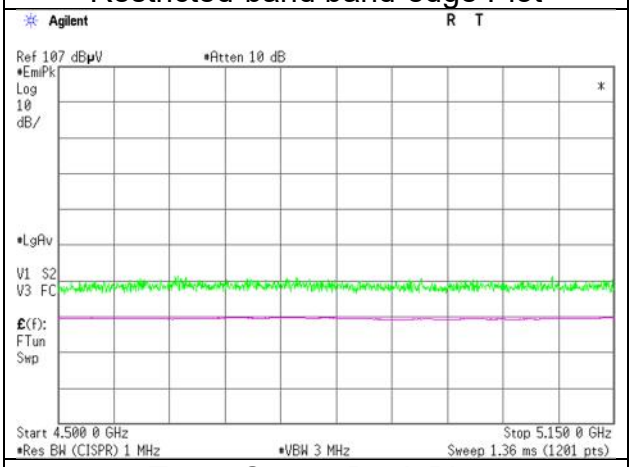
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5210 MHz With DH5 Hopping

RU Index 61

Horizontal

Restricted-band band-edge Plot

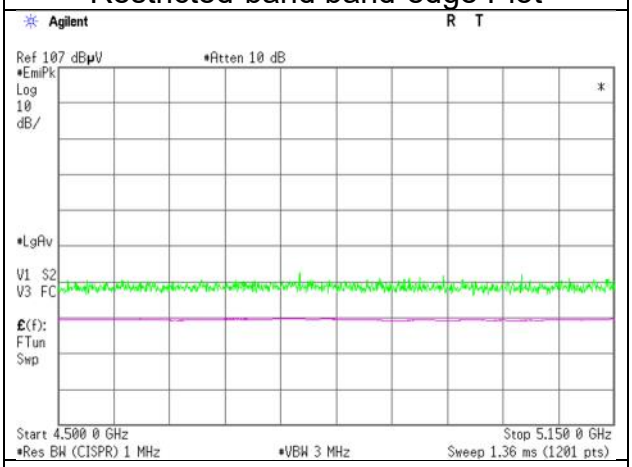


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 61

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5210 MHz With DH5 Hopping

RU Index 65

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.45	32.16	17.18	43.07	2.49	57.21	73.9	16.6	146	308	-
Hori.	5150.000	AV	36.20	32.16	17.18	43.07	2.49	44.96	53.9	**8.9**	146	308	VBW:10 Hz
Vert.	5150.000	PK	50.03	32.16	17.18	43.07	2.49	58.79	73.9	15.1	241	248	-
Vert.	5150.000	AV	36.19	32.16	17.18	43.07	2.49	44.95	53.9	**8.9**	241	248	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

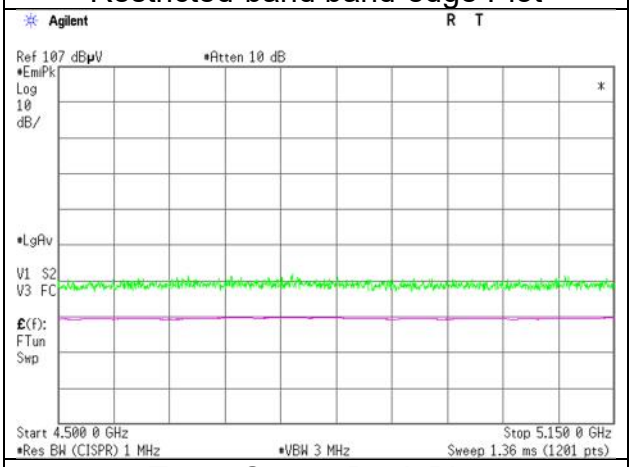
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5210 MHz With DH5 Hopping

RU Index 65

Horizontal

Restricted-band band-edge Plot

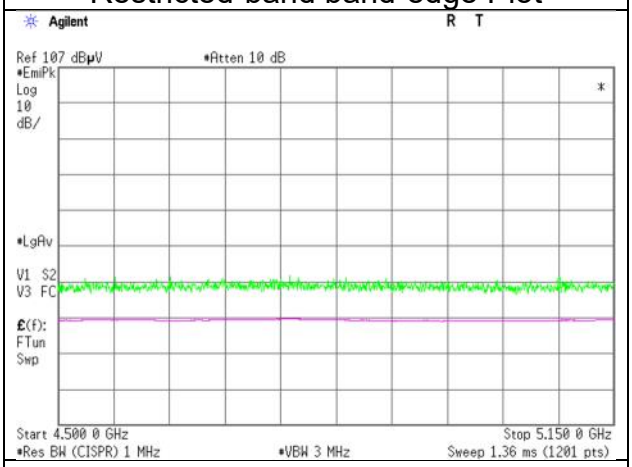


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 65

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5210 MHz With DH5 Hopping

RU Index 67

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.24	32.16	17.18	43.07	2.49	59.00	73.9	14.9	196	90	-
Hori.	5150.000	AV	37.78	32.16	17.18	43.07	2.49	46.54	53.9	**7.3**	196	90	VBW:1.5 kHz
Vert.	5150.000	PK	49.43	32.16	17.18	43.07	2.49	58.19	73.9	15.7	262	250	-
Vert.	5150.000	AV	37.47	32.16	17.18	43.07	2.49	46.23	53.9	7.6	262	250	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (4.00 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

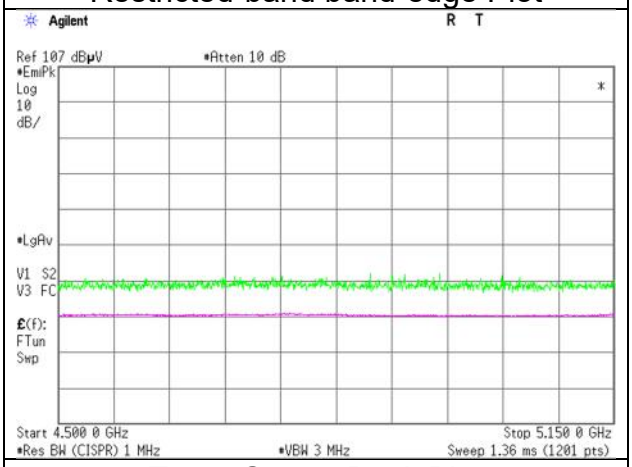
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5210 MHz With DH5 Hopping

RU Index 67

Horizontal

Restricted-band band-edge Plot

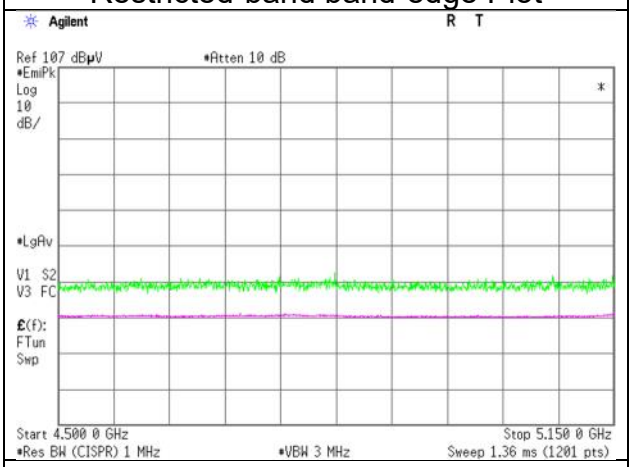


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 67

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5290 MHz With DH5 Hopping

RU Index 36

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

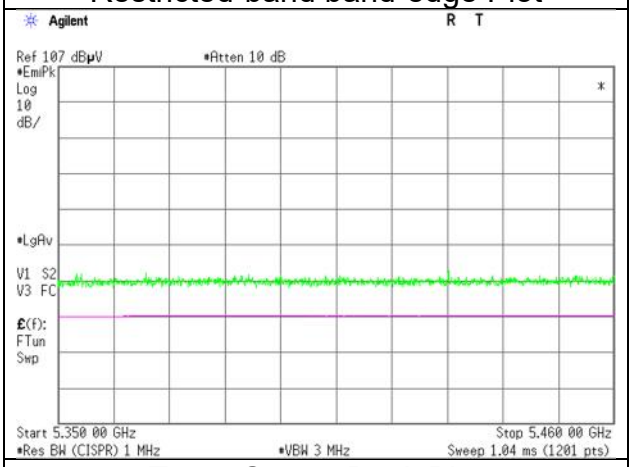
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.16	31.98	17.30	43.30	2.49	57.63	73.9	16.2	196	136	-
Hori.	5350.000	AV	36.94	31.98	17.30	43.30	2.49	45.41	53.9	**8.4**	196	136	VBW: 10 Hz
Vert.	5350.000	PK	49.35	31.98	17.30	43.30	2.49	57.82	73.9	16.0	385	146	-
Vert.	5350.000	AV	36.93	31.98	17.30	43.30	2.49	45.40	53.9	8.5	385	146	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

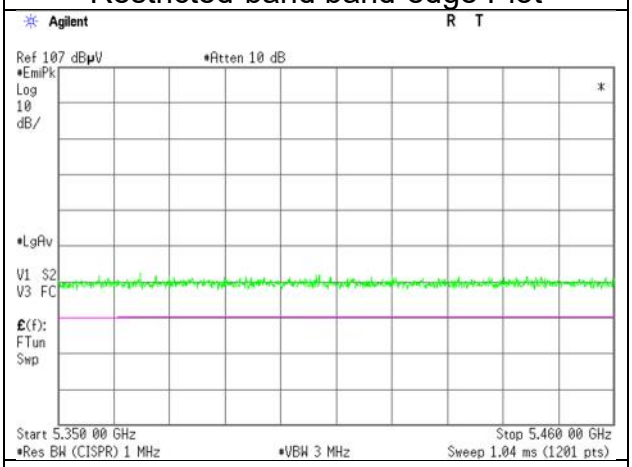
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5290 MHz With DH5 Hopping

RU Index 36
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 36
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5290 MHz With DH5 Hopping

RU Index 52

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.74	31.98	17.30	43.30	2.49	58.21	73.9	15.6	198	139	-
Hori.	5350.000	AV	36.96	31.98	17.30	43.30	2.49	45.43	53.9	**8.4**	198	139	VBW: 10 Hz
Vert.	5350.000	PK	49.79	31.98	17.30	43.30	2.49	58.26	73.9	15.6	164	140	-
Vert.	5350.000	AV	36.59	31.98	17.30	43.30	2.49	45.06	53.9	8.8	164	140	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (4.00 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

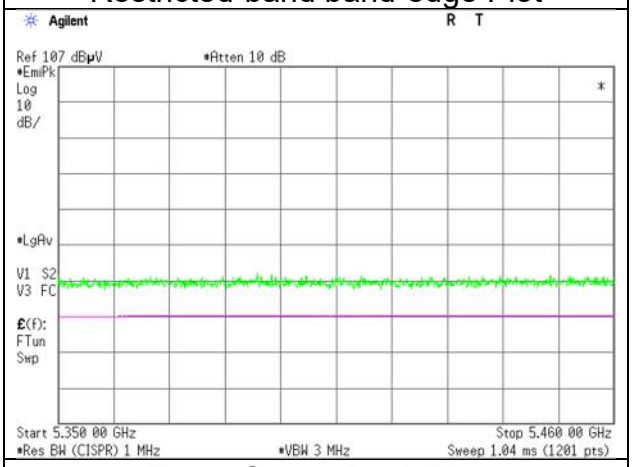
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5290 MHz With DH5 Hopping

RU Index 52

Horizontal

Restricted-band band-edge Plot

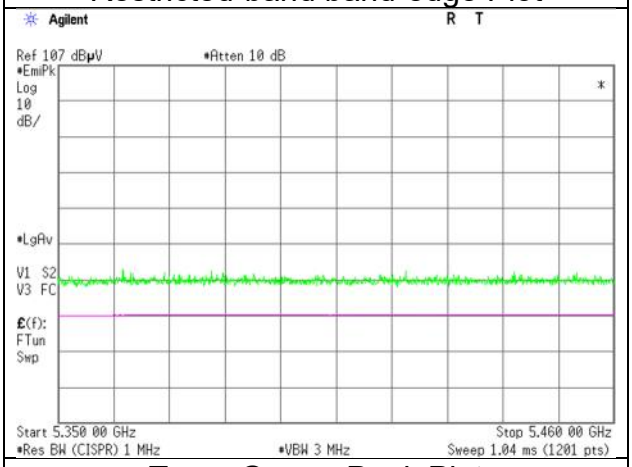


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 52

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5290 MHz With DH5 Hopping

RU Index 60

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

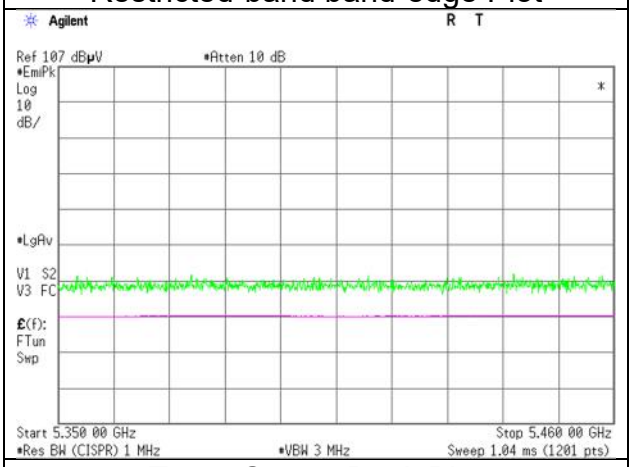
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.35	31.98	17.30	43.30	2.49	57.82	73.9	16.0	164	307	-
Hori.	5350.000	AV	36.50	31.98	17.30	43.30	2.49	44.97	53.9	**8.9**	164	307	VBW: 10 Hz
Vert.	5350.000	PK	48.88	31.98	17.30	43.30	2.49	57.35	73.9	16.5	235	242	-
Vert.	5350.000	AV	36.47	31.98	17.30	43.30	2.49	44.94	53.9	**8.9**	235	242	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

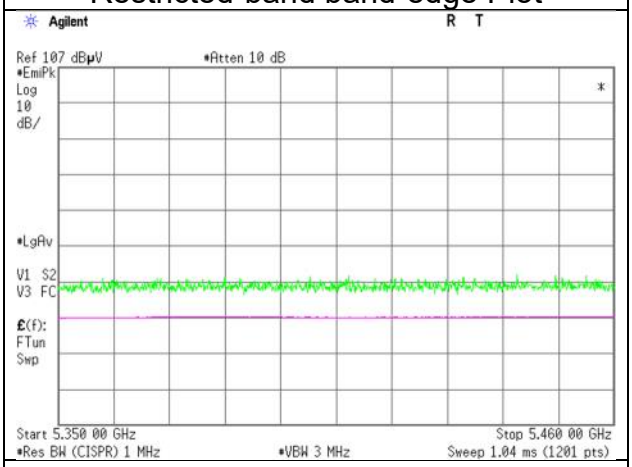
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5290 MHz With DH5 Hopping

RU Index 60
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 60
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5290 MHz With DH5 Hopping

RU Index 64

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.53	31.98	17.30	43.30	2.49	58.00	73.9	15.9	168	306	-
Hori.	5350.000	AV	36.56	31.98	17.30	43.30	2.49	45.03	53.9	**8.8**	168	306	VBW: 10 Hz
Vert.	5350.000	PK	48.69	31.98	17.30	43.30	2.49	57.16	73.9	16.7	217	239	-
Vert.	5350.000	AV	36.54	31.98	17.30	43.30	2.49	45.01	53.9	**8.8**	217	239	VBW: 10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (4.00 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

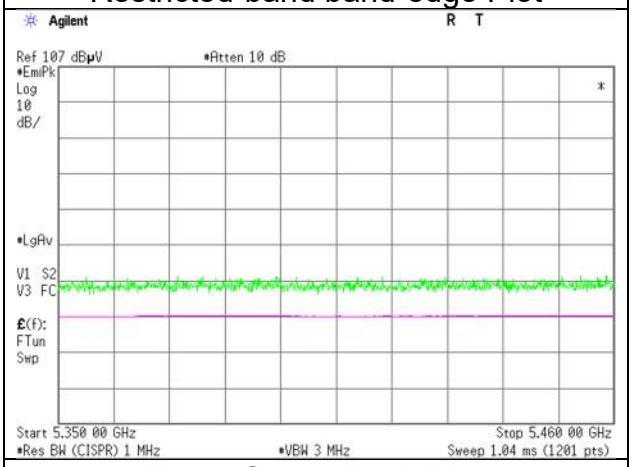
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5290 MHz With DH5 Hopping

RU Index 64

Horizontal

Restricted-band band-edge Plot

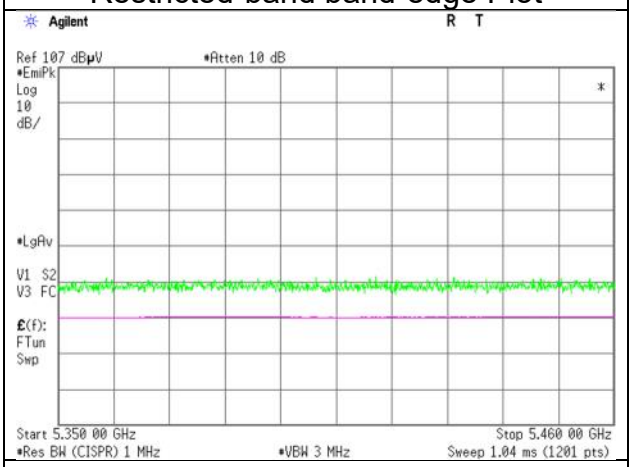


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 64

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5290 MHz With DH5 Hopping

RU Index 66

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.55	31.98	17.30	43.30	2.49	58.02	73.9	15.8	222	301	-
Hori.	5350.000	AV	36.53	31.98	17.30	43.30	2.49	45.00	53.9	8.9	222	301	VBW:10 Hz
Vert.	5350.000	PK	49.40	31.98	17.30	43.30	2.49	57.87	73.9	16.0	309	263	-
Vert.	5350.000	AV	36.56	31.98	17.30	43.30	2.49	45.03	53.9	**8.8**	309	263	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

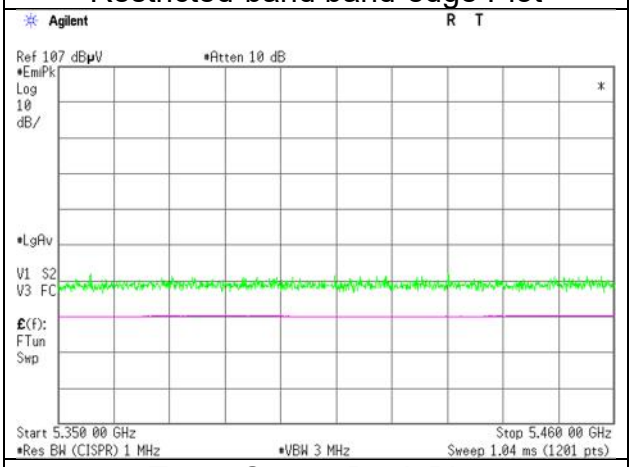
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5290 MHz With DH5 Hopping

RU Index 66

Horizontal

Restricted-band band-edge Plot

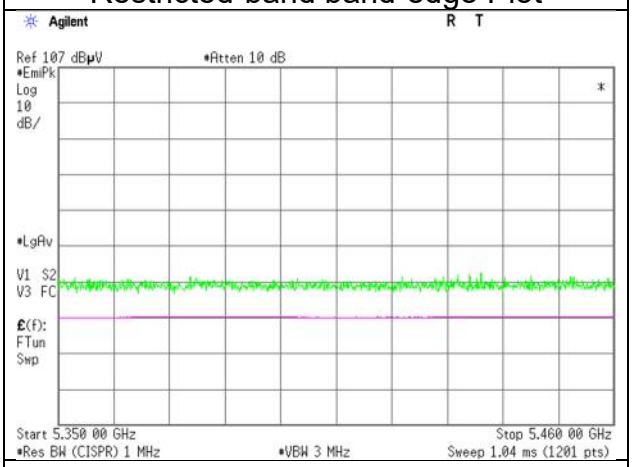


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 66

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5290 MHz With DH5 Hopping

RU Index 67

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.50	31.98	16.74	44.27	2.49	58.44	73.9	15.4	127	188	-
Hori.	5350.000	AV	39.14	31.98	16.74	44.27	2.49	46.08	53.9	7.8	127	188	VBW:1.5 kHz
Vert.	5350.000	PK	51.28	31.98	16.74	44.27	2.49	58.22	73.9	15.6	208	237	-
Vert.	5350.000	AV	40.57	31.98	16.74	44.27	2.49	47.51	53.9	**6.3**	208	237	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

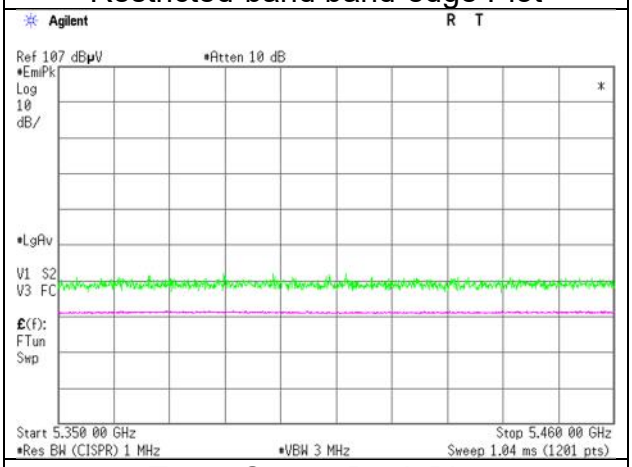
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5290 MHz With DH5 Hopping

RU Index 67

Horizontal

Restricted-band band-edge Plot

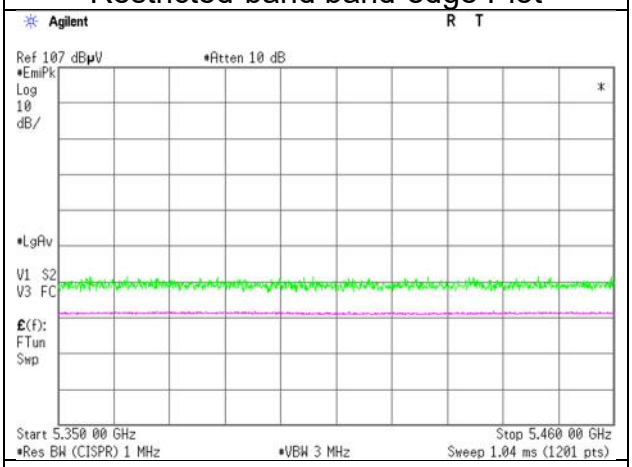


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 67

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5530 MHz With DH5 Hopping

RU Index 0

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.22	32.24	16.82	44.29	2.49	57.48	73.9	16.4	149	110	-
Hori.	5460.000	AV	39.11	32.24	16.82	44.29	2.49	46.37	53.9	**7.5**	149	110	VBW:10 Hz
Vert.	5460.000	PK	51.59	32.24	16.82	44.29	2.49	58.85	73.9	15.0	224	233	-
Vert.	5460.000	AV	39.05	32.24	16.82	44.29	2.49	46.31	53.9	**7.5**	224	233	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

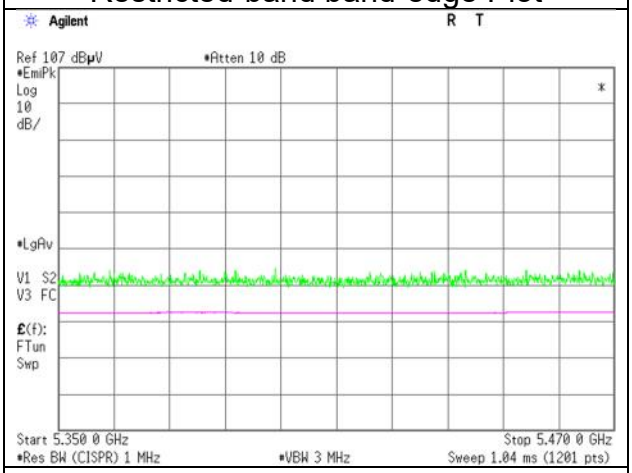
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.30	32.25	16.83	44.30	2.49	57.57	-37.66	-27.0	10.6	149	110	-
Vert.	5470.000	PK	52.26	32.25	16.83	44.30	2.49	59.53	-35.70	-27.0	8.7	224	233	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

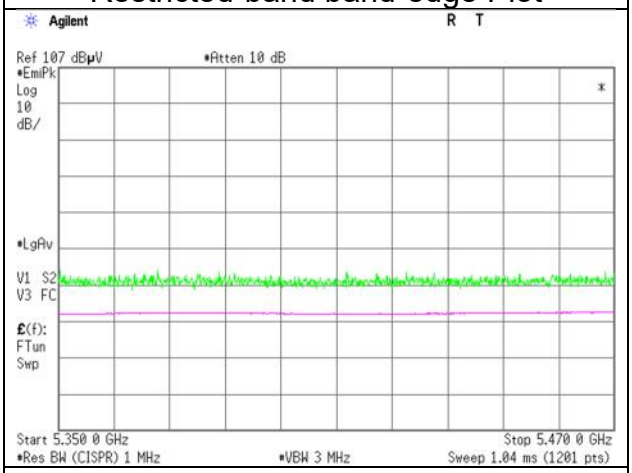
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5530 MHz With DH5 Hopping

RU Index 0
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 0
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5530 MHz With DH5 Hopping

RU Index 37

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.62	32.24	16.82	44.29	2.49	57.88	73.9	16.0	136	129	-
Hori.	5460.000	AV	39.16	32.24	16.82	44.29	2.49	46.42	53.9	**7.4**	136	129	VBW:10 Hz
Vert.	5460.000	PK	51.39	32.24	16.82	44.29	2.49	58.65	73.9	15.2	210	237	-
Vert.	5460.000	AV	39.15	32.24	16.82	44.29	2.49	46.41	53.9	**7.4**	210	237	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

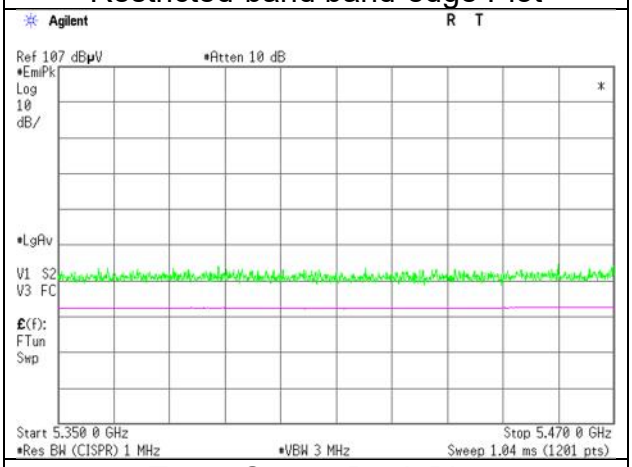
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.89	32.25	16.83	44.30	2.49	58.16	-37.07	-27.0	10.0	136	129	-
Vert.	5470.000	PK	52.08	32.25	16.83	44.30	2.49	59.35	-35.88	-27.0	8.8	210	237	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

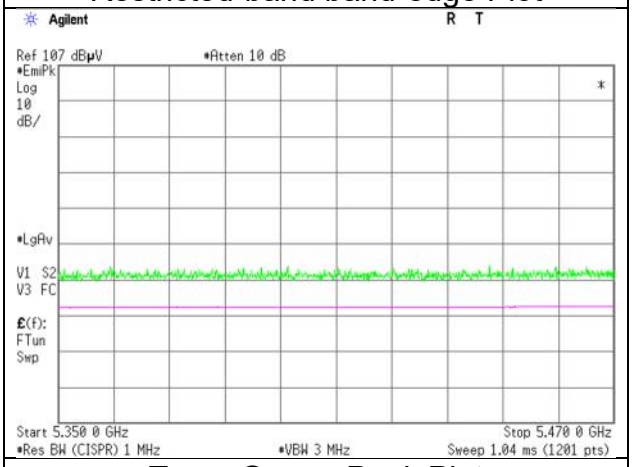
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5530 MHz With DH5 Hopping

RU Index 37
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 37
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5530 MHz With DH5 Hopping

RU Index 53

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.35	32.24	16.82	44.29	2.49	58.61	73.9	15.2	126	126	-
Hori.	5460.000	AV	39.19	32.24	16.82	44.29	2.49	46.45	53.9	**7.4**	126	126	VBW:10 Hz
Vert.	5460.000	PK	50.43	32.24	16.82	44.29	2.49	57.69	73.9	16.2	224	232	-
Vert.	5460.000	AV	39.16	32.24	16.82	44.29	2.49	46.42	53.9	**7.4**	224	232	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

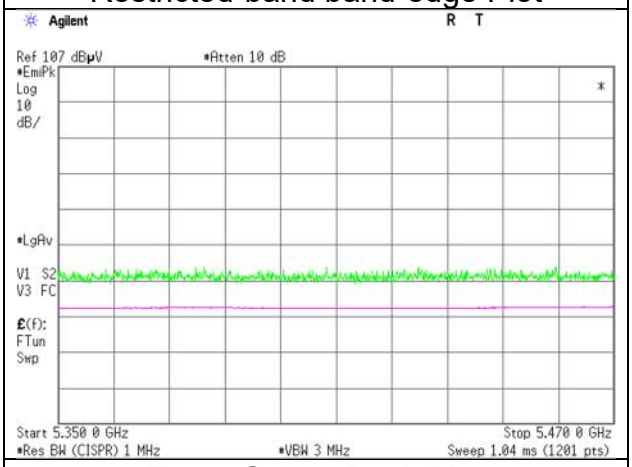
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.32	32.25	16.83	44.30	2.49	57.59	-37.64	-27.0	10.6	126	126	-
Vert.	5470.000	PK	51.53	32.25	16.83	44.30	2.49	58.80	-36.43	-27.0	9.4	224	232	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

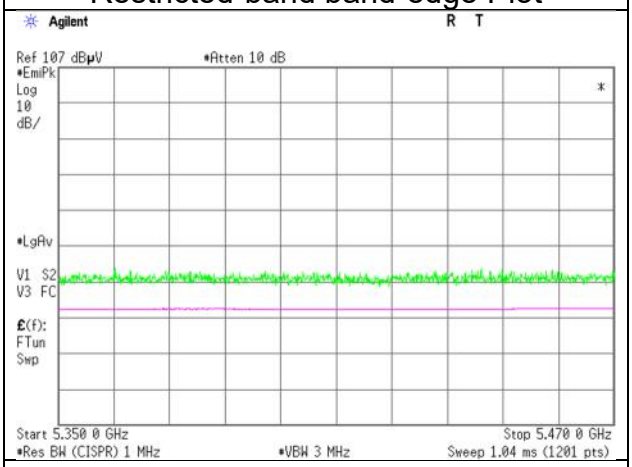
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5530 MHz With DH5 Hopping

RU Index 53
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 53
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5530 MHz With DH5 Hopping

RU Index 61

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.68	32.24	16.82	44.29	2.49	58.94	73.9	14.9	147	122	-
Hori.	5460.000	AV	39.19	32.24	16.82	44.29	2.49	46.45	53.9	**7.4**	147	122	VBW:10 Hz
Vert.	5460.000	PK	51.26	32.24	16.82	44.29	2.49	58.52	73.9	15.3	223	241	-
Vert.	5460.000	AV	39.17	32.24	16.82	44.29	2.49	46.43	53.9	**7.4**	223	241	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

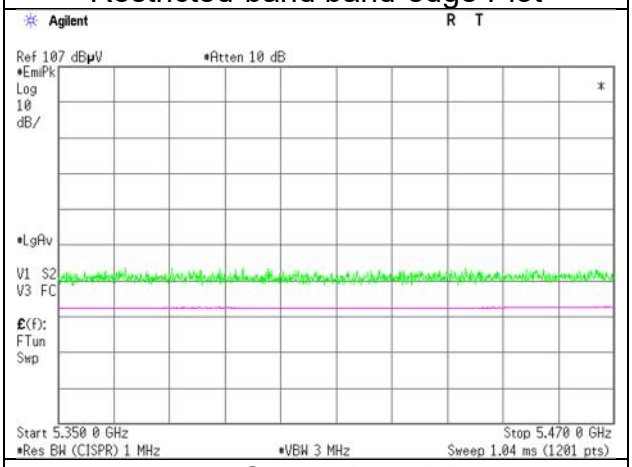
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.24	32.25	16.83	44.30	2.49	58.51	-36.72	-27.0	9.7	147	122	-
Vert.	5470.000	PK	51.70	32.25	16.83	44.30	2.49	58.97	-36.26	-27.0	9.2	223	241	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

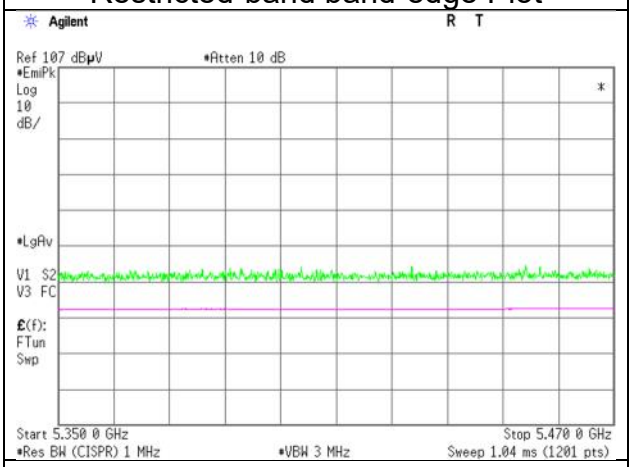
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5530 MHz With DH5 Hopping

RU Index 61
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 61
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5530 MHz With DH5 Hopping

RU Index 65

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.68	32.24	16.82	44.29	2.49	57.94	73.9	15.9	144	119	-
Hori.	5460.000	AV	39.29	32.24	16.82	44.29	2.49	46.55	53.9	**7.3**	144	119	VBW:10 Hz
Vert.	5460.000	PK	50.82	32.24	16.82	44.29	2.49	58.08	73.9	15.8	211	231	-
Vert.	5460.000	AV	39.33	32.24	16.82	44.29	2.49	46.59	53.9	**7.3**	211	231	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

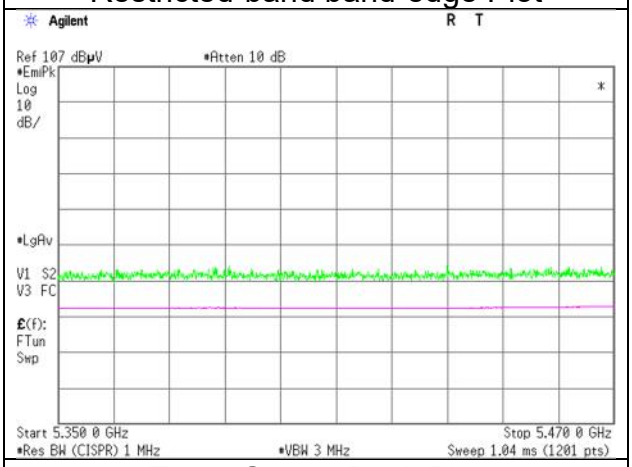
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.60	32.25	16.83	44.30	2.49	57.87	-37.36	-27.0	10.3	144	119	-
Vert.	5470.000	PK	50.56	32.25	16.83	44.30	2.49	57.83	-37.40	-27.0	10.4	211	231	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

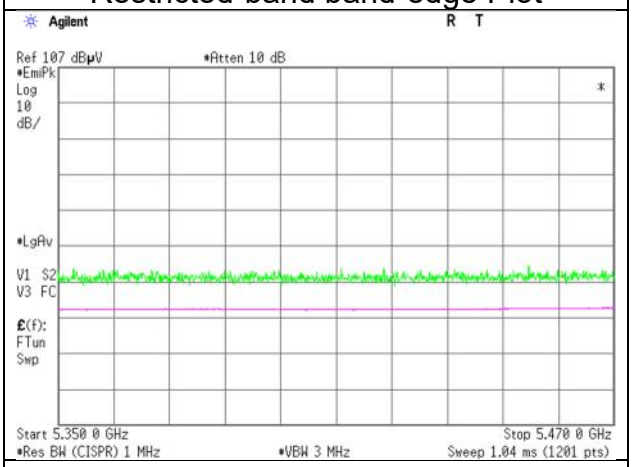
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5530 MHz With DH5 Hopping

RU Index 65
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 65
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5530 MHz With DH5 Hopping

RU Index 67

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.84	32.24	16.82	44.29	2.49	58.10	73.9	15.8	157	115	-
Hori.	5460.000	AV	40.61	32.24	16.82	44.29	2.49	47.87	53.9	**6.0**	157	115	VBW:1.5 kHz
Vert.	5460.000	PK	51.44	32.24	16.82	44.29	2.49	58.70	73.9	15.2	219	229	-
Vert.	5460.000	AV	40.52	32.24	16.82	44.29	2.49	47.78	53.9	6.1	219	229	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

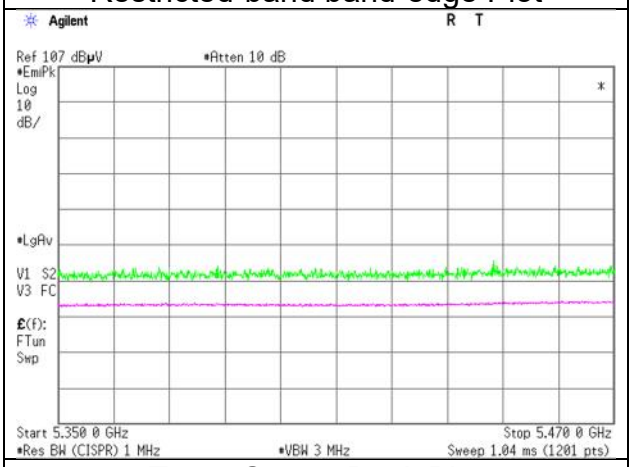
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.78	32.25	16.83	44.30	2.49	59.05	-36.18	-27.0	9.1	157	115	-
Vert.	5470.000	PK	50.73	32.25	16.83	44.30	2.49	58.00	-37.23	-27.0	10.2	219	229	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

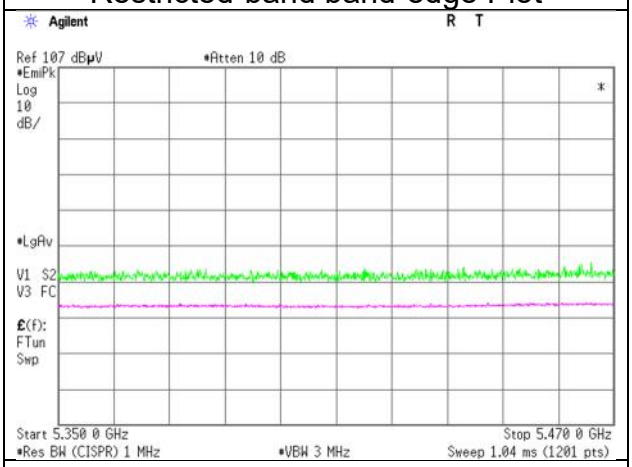
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5530 MHz With DH5 Hopping

RU Index 67
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 67
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5610 MHz With DH5 Hopping

RU Index 36

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

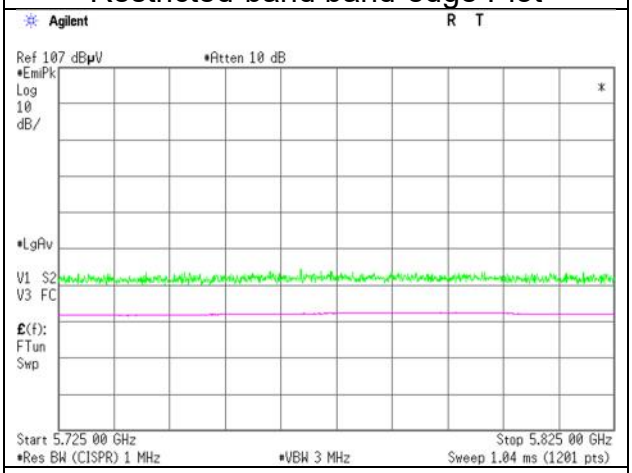
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.56	32.63	16.97	44.33	2.49	57.32	-37.91	-27.0	10.9	156	81	-
Vert.	5725.000	PK	50.26	32.63	16.97	44.33	2.49	58.02	-37.21	-27.0	**10.2**	181	237	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

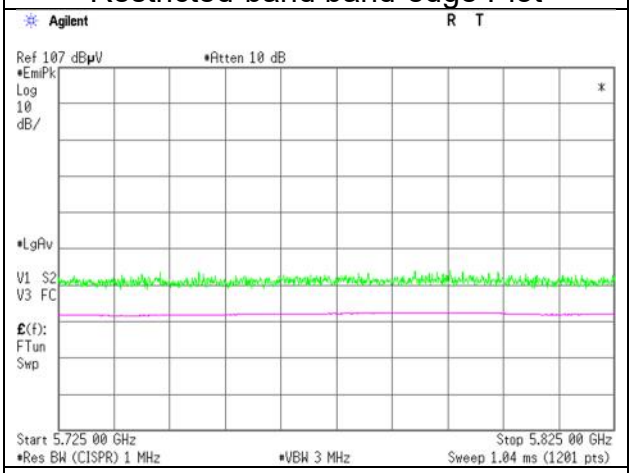
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5610 MHz With DH5 Hopping

RU Index 36
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 36
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5610 MHz With DH5 Hopping

RU Index 52

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

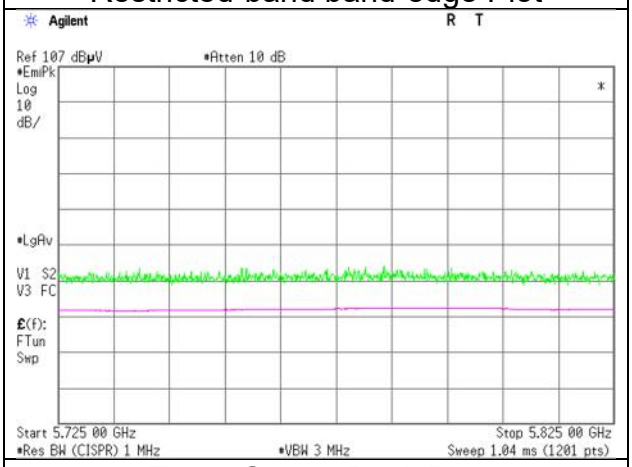
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.60	32.63	16.97	44.33	2.49	58.36	-36.87	-27.0	**9.8**	149	114	-
Vert.	5725.000	PK	49.71	32.63	16.97	44.33	2.49	57.47	-37.76	-27.0	10.7	210	241	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

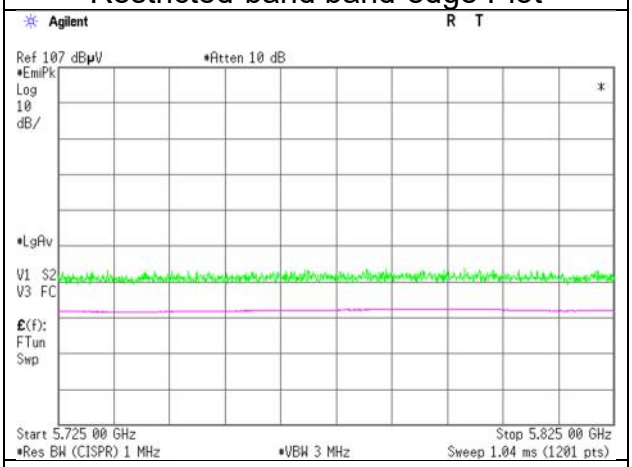
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5610 MHz With DH5 Hopping

RU Index 52
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 52
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5610 MHz With DH5 Hopping

RU Index 60

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

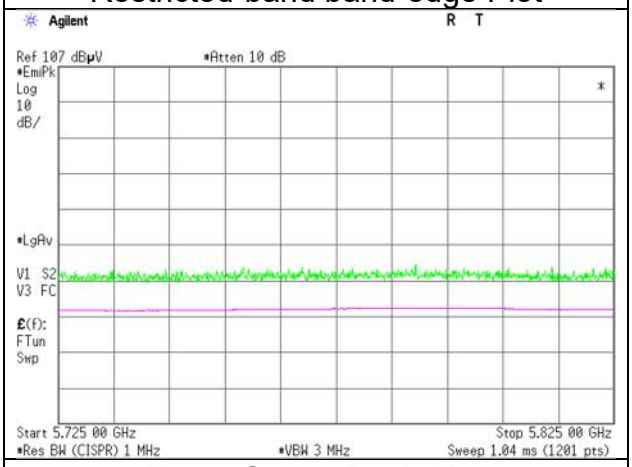
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.53	32.63	16.97	44.33	2.49	58.29	-36.94	-27.0	**9.9**	137	124	-
Vert.	5725.000	PK	50.13	32.63	16.97	44.33	2.49	57.89	-37.34	-27.0	10.3	203	239	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

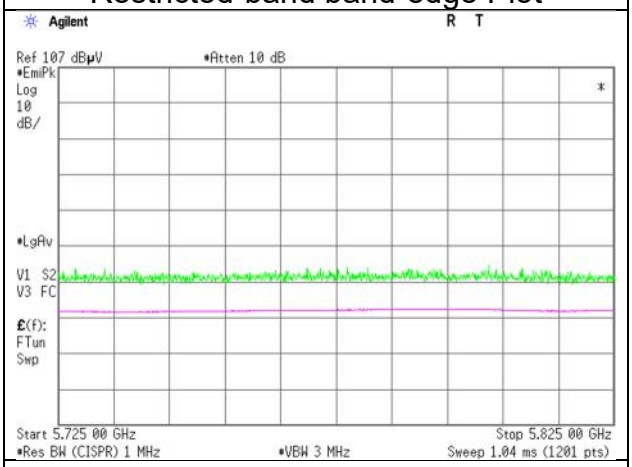
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5610 MHz With DH5 Hopping

RU Index 60
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 60
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5610 MHz With DH5 Hopping

RU Index 64

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

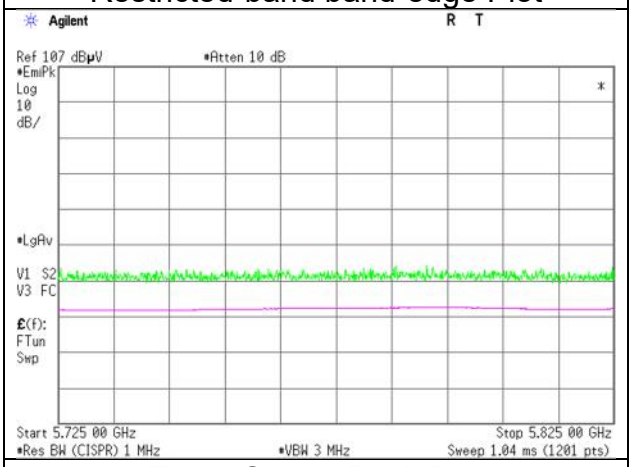
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.81	32.63	16.97	44.33	2.49	57.57	-37.66	-27.0	10.6	137	115	-
Vert.	5725.000	PK	49.88	32.63	16.97	44.33	2.49	57.64	-37.59	-27.0	**10.5**	197	234	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

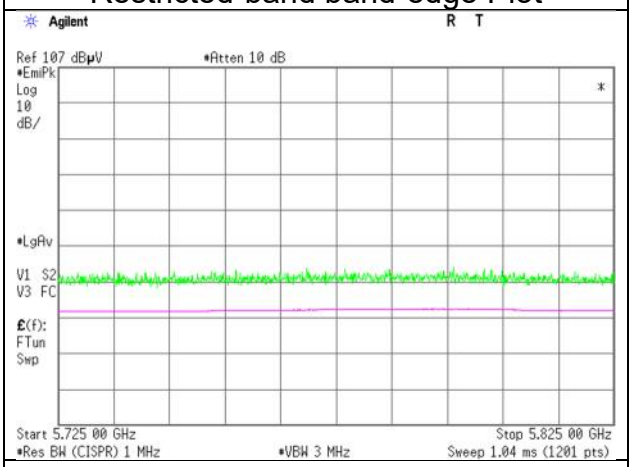
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5610 MHz With DH5 Hopping

RU Index 64
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 64
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	21 deg. C / 33 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5610 MHz With DH5 Hopping

RU Index 66

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	51.00	32.63	16.97	44.33	2.49	58.76	-36.47	-27.0	**9.4**	137	122	-
Vert.	5725.000	PK	49.88	32.63	16.97	44.33	2.49	57.64	-37.59	-27.0	10.5	208	240	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

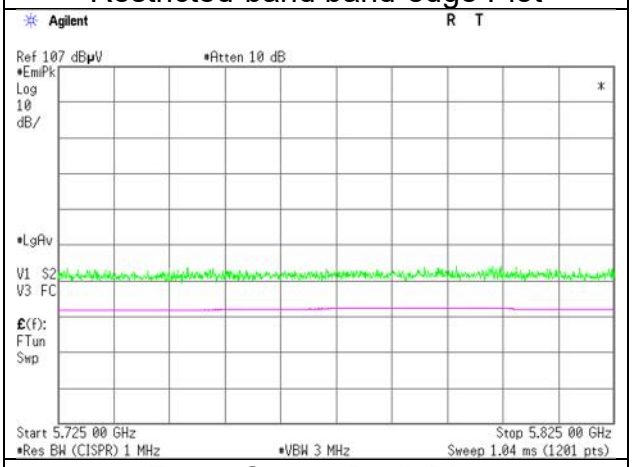
Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 11, 2024
Temperature / Humidity	21 deg. C / 33 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5610 MHz With DH5 Hopping

RU Index 66

Horizontal

Restricted-band band-edge Plot

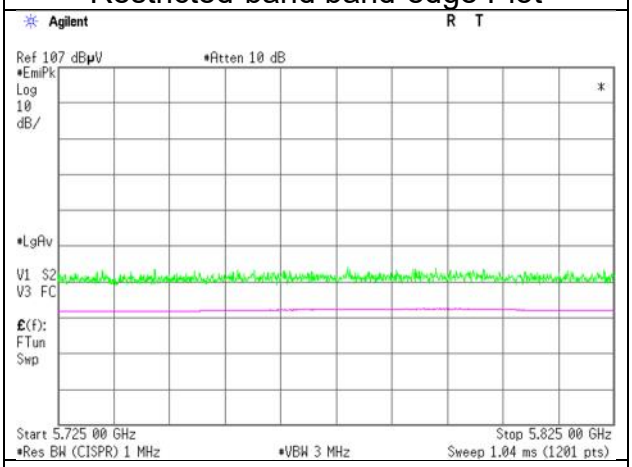


Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 66

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5610 MHz With DH5 Hopping

RU Index 67

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

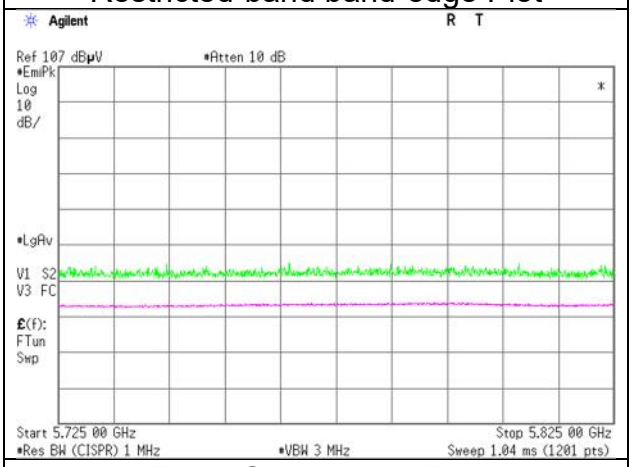
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.28	32.63	16.97	44.33	2.49	58.04	-37.19	-27.0	10.1	188	119	-
Vert.	5725.000	PK	51.58	32.63	16.97	44.33	2.49	59.34	-35.89	-27.0	**8.8**	100	0	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

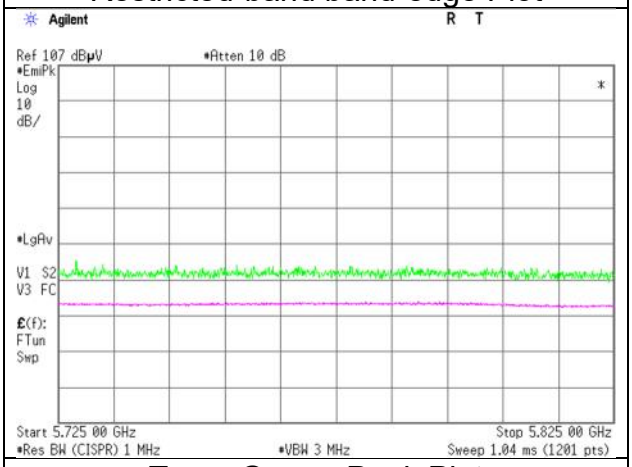
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 12, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5610 MHz With DH5 Hopping

RU Index 67
Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

RU Index 67
Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5775 MHz With DH5 Hopping

RU Index 0

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.30	32.44	17.50	43.44	2.49	58.29	-36.94	-27.0	**9.9**	206	90	-
Hori.	5700.000	PK	48.77	32.56	17.52	43.43	2.49	57.91	-37.32	10.0	47.3	206	90	-
Hori.	5720.000	PK	48.89	32.61	17.53	43.42	2.49	58.10	-37.13	15.6	52.7	206	90	-
Hori.	5725.000	PK	49.19	32.63	17.53	43.42	2.49	58.42	-36.81	27.0	63.8	206	90	-
Vert.	5650.000	PK	49.08	32.44	17.50	43.44	2.49	58.07	-37.16	-27.0	10.1	167	275	-
Vert.	5700.000	PK	49.06	32.56	17.52	43.43	2.49	58.20	-37.03	10.0	47.0	167	275	-
Vert.	5720.000	PK	48.95	32.61	17.53	43.42	2.49	58.16	-37.07	15.6	52.6	167	275	-
Vert.	5725.000	PK	48.37	32.63	17.53	43.42	2.49	57.60	-37.63	27.0	64.6	167	275	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 36

(Calculation) (above 1 GHz Outside of the restricted band)

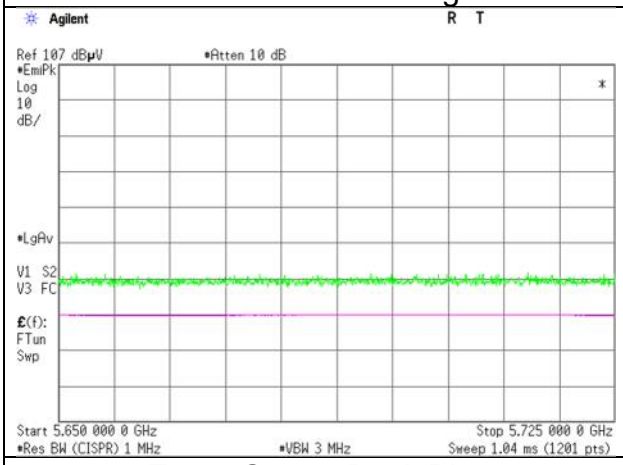
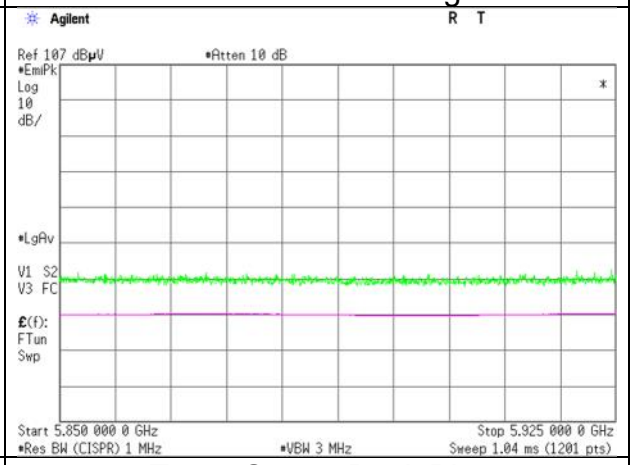
(* PK: Peak, AV: Average, QP: Quasi-Peak)

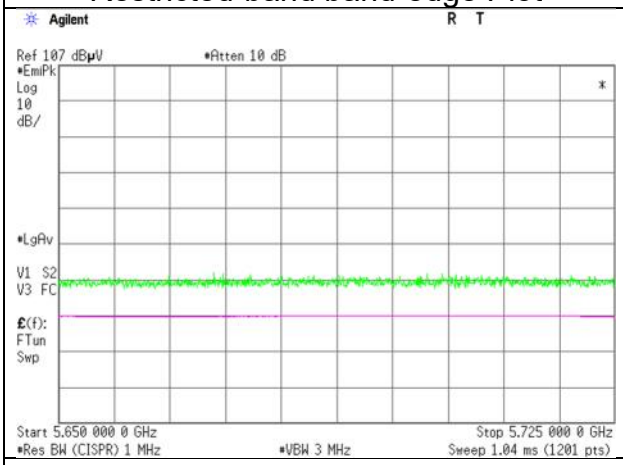
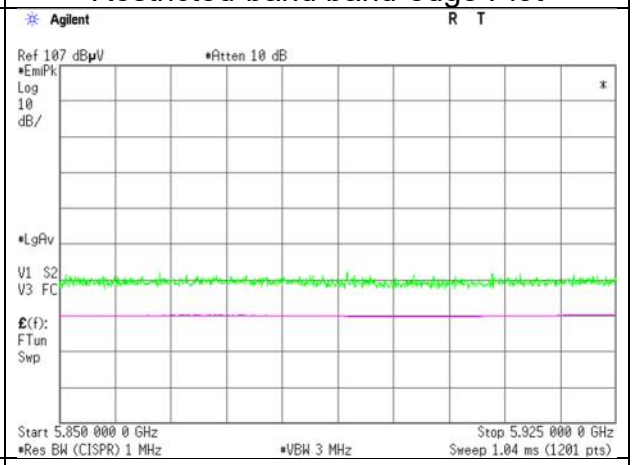
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.85	32.94	17.61	43.39	2.49	59.50	-35.73	27.0	62.7	185	93	-
Hori.	5855.000	PK	50.06	32.95	17.61	43.39	2.49	59.72	-35.51	15.6	51.1	185	93	-
Hori.	5875.000	PK	48.88	32.98	17.64	43.39	2.49	58.60	-36.63	10.0	46.6	185	93	-
Hori.	5925.000	PK	49.18	33.06	17.66	43.38	2.49	59.01	-36.22	-27.0	9.2	185	93	-
Vert.	5850.000	PK	48.97	32.94	17.61	43.39	2.49	58.62	-36.61	27.0	63.6	159	270	-
Vert.	5855.000	PK	49.38	32.95	17.61	43.39	2.49	59.04	-36.19	15.6	51.7	159	270	-
Vert.	5875.000	PK	50.06	32.98	17.64	43.39	2.49	59.78	-35.45	10.0	45.4	159	270	-
Vert.	5925.000	PK	50.41	33.06	17.66	43.38	2.49	60.24	-34.99	-27.0	**7.9**	159	270	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDMA) 26-tone RU, 5775 MHz With DH5 Hopping

RU Index 0	RU Index 36
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 0	RU Index 36
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5775 MHz With DH5 Hopping

RU Index 37

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.53	32.44	17.50	43.44	2.49	57.52	-37.71	-27.0	10.7	150	90	-
Hori.	5700.000	PK	49.41	32.56	17.52	43.43	2.49	58.55	-36.68	10.0	46.6	150	90	-
Hori.	5720.000	PK	49.26	32.61	17.53	43.42	2.49	58.47	-36.76	15.6	52.3	150	90	-
Hori.	5725.000	PK	49.49	32.63	17.53	43.42	2.49	58.72	-36.51	27.0	63.5	150	90	-
Vert.	5650.000	PK	48.77	32.44	17.50	43.44	2.49	57.76	-37.47	-27.0	**10.4**	167	270	-
Vert.	5700.000	PK	48.59	32.56	17.52	43.43	2.49	57.73	-37.50	10.0	47.5	167	270	-
Vert.	5720.000	PK	49.18	32.61	17.53	43.42	2.49	58.39	-36.84	15.6	52.4	167	270	-
Vert.	5725.000	PK	48.72	32.63	17.53	43.42	2.49	57.95	-37.28	27.0	64.2	167	270	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 52

(Calculation) (above 1 GHz Outside of the restricted band)

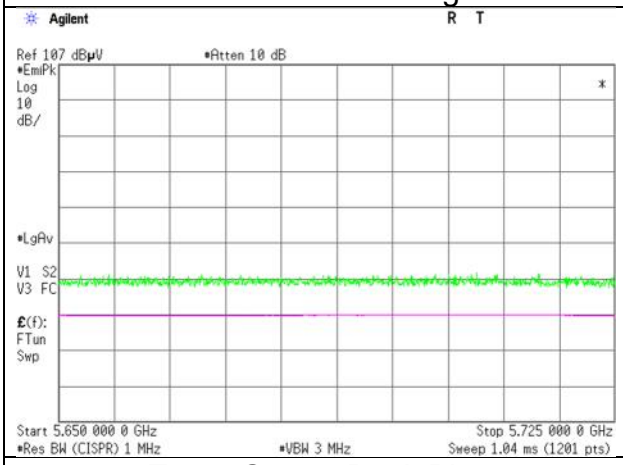
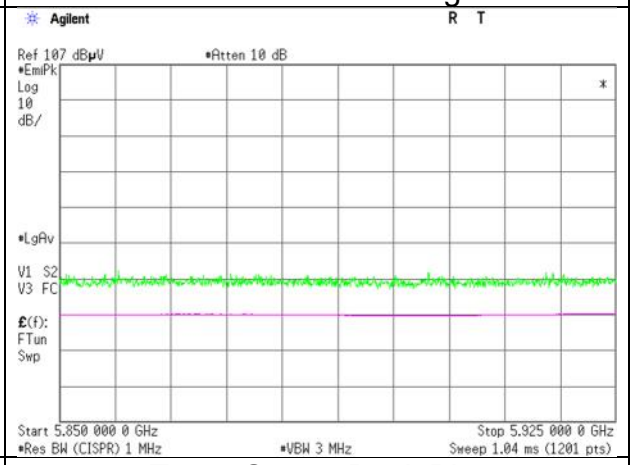
(* PK: Peak, AV: Average, QP: Quasi-Peak)

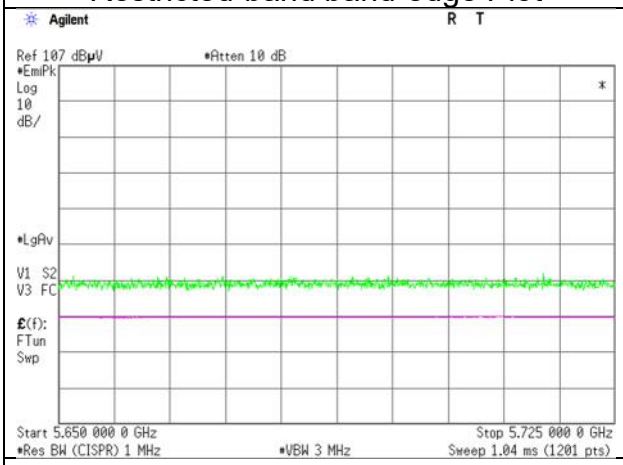
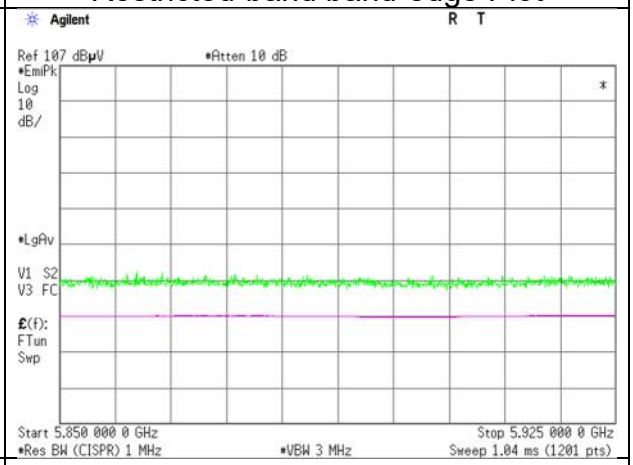
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.26	32.94	17.61	43.39	2.49	58.91	-36.32	27.0	63.3	147	92	-
Hori.	5855.000	PK	48.71	32.95	17.61	43.39	2.49	58.37	-36.86	15.6	52.4	147	92	-
Hori.	5875.000	PK	49.52	32.98	17.64	43.39	2.49	59.24	-35.99	10.0	45.9	147	92	-
Hori.	5925.000	PK	49.25	33.06	17.66	43.38	2.49	59.08	-36.15	-27.0	9.1	147	92	-
Vert.	5850.000	PK	49.76	32.94	17.61	43.39	2.49	59.41	-35.82	27.0	62.8	168	260	-
Vert.	5855.000	PK	48.89	32.95	17.61	43.39	2.49	58.55	-36.68	15.6	52.2	168	260	-
Vert.	5875.000	PK	49.79	32.98	17.64	43.39	2.49	59.51	-35.72	10.0	45.7	168	260	-
Vert.	5925.000	PK	49.44	33.06	17.66	43.38	2.49	59.27	-35.96	-27.0	**8.9**	168	260	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 22, 2023
Temperature / Humidity	24 deg. C / 27 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5775 MHz With DH5 Hopping

RU Index 37	RU Index 52
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 37	RU Index 52
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5775 MHz With DH5 Hopping

RU Index 53

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.47	32.44	17.50	43.44	2.49	57.46	-37.77	-27.0	10.7	151	119	-
Hori.	5700.000	PK	49.33	32.56	17.52	43.43	2.49	58.47	-36.76	10.0	46.7	151	119	-
Hori.	5720.000	PK	48.74	32.61	17.53	43.42	2.49	57.95	-37.28	15.6	52.8	151	119	-
Hori.	5725.000	PK	48.72	32.63	17.53	43.42	2.49	57.95	-37.28	27.0	64.2	151	119	-
Vert.	5650.000	PK	49.13	32.44	17.50	43.44	2.49	58.12	-37.11	-27.0	**10.1**	298	101	-
Vert.	5700.000	PK	48.58	32.56	17.52	43.43	2.49	57.72	-37.51	10.0	47.5	298	101	-
Vert.	5720.000	PK	49.17	32.61	17.53	43.42	2.49	58.38	-36.85	15.6	52.4	298	101	-
Vert.	5725.000	PK	48.62	32.63	17.53	43.42	2.49	57.85	-37.38	27.0	64.3	298	101	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 60

(Calculation) (above 1 GHz Outside of the restricted band)

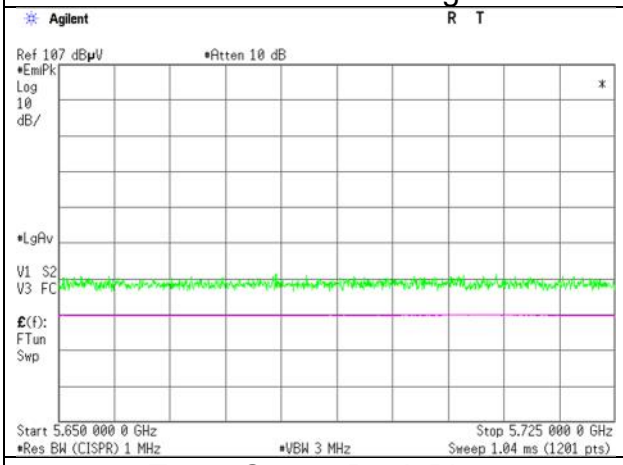
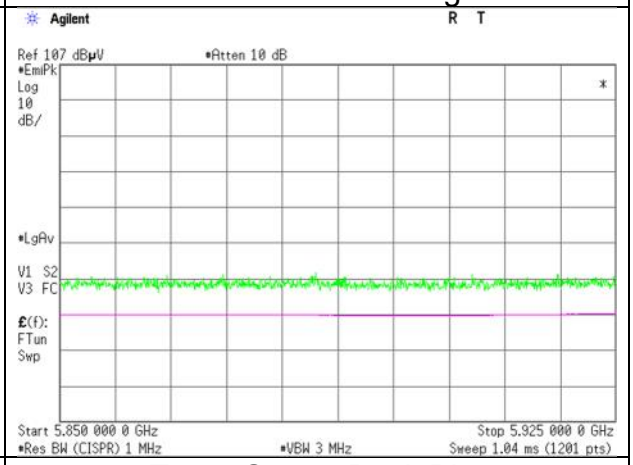
(* PK: Peak, AV: Average, QP: Quasi-Peak)

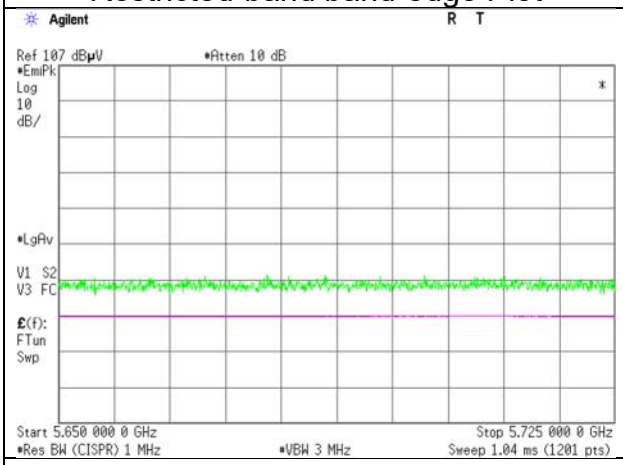
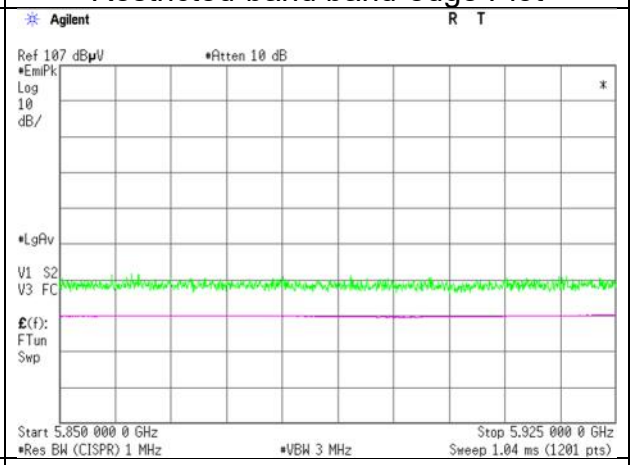
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.21	32.94	17.61	43.39	2.49	58.86	-36.37	27.0	63.3	174	119	-
Hori.	5855.000	PK	49.40	32.95	17.61	43.39	2.49	59.06	-36.17	15.6	51.7	174	119	-
Hori.	5875.000	PK	48.92	32.98	17.64	43.39	2.49	58.64	-36.59	10.0	46.5	174	119	-
Hori.	5925.000	PK	49.44	33.06	17.66	43.38	2.49	59.27	-35.96	-27.0	**8.9**	174	119	-
Vert.	5850.000	PK	48.85	32.94	17.61	43.39	2.49	58.50	-36.73	27.0	63.7	164	257	-
Vert.	5855.000	PK	48.35	32.95	17.61	43.39	2.49	58.01	-37.22	15.6	52.8	164	257	-
Vert.	5875.000	PK	48.65	32.98	17.64	43.39	2.49	58.37	-36.86	10.0	46.8	164	257	-
Vert.	5925.000	PK	49.26	33.06	17.66	43.38	2.49	59.09	-36.14	-27.0	9.1	164	257	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5775 MHz With DH5 Hopping

RU Index 53	RU Index 60
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 53	RU Index 60
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5775 MHz With DH5 Hopping

RU Index 61

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.99	32.44	17.50	43.44	2.49	57.98	-37.25	-27.0	**10.2**	185	119	-
Hori.	5700.000	PK	48.57	32.56	17.52	43.43	2.49	57.71	-37.52	10.0	47.5	185	119	-
Hori.	5720.000	PK	49.36	32.61	17.53	43.42	2.49	58.57	-36.66	15.6	52.2	185	119	-
Hori.	5725.000	PK	48.45	32.63	17.53	43.42	2.49	57.68	-37.55	27.0	64.5	185	119	-
Vert.	5650.000	PK	48.63	32.44	17.50	43.44	2.49	57.62	-37.61	-27.0	10.6	148	264	-
Vert.	5700.000	PK	49.39	32.56	17.52	43.43	2.49	58.53	-36.70	10.0	46.7	148	264	-
Vert.	5720.000	PK	48.01	32.61	17.53	43.42	2.49	57.22	-38.01	15.6	53.6	148	264	-
Vert.	5725.000	PK	48.74	32.63	17.53	43.42	2.49	57.97	-37.26	27.0	64.2	148	264	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 64

(Calculation) (above 1 GHz Outside of the restricted band)

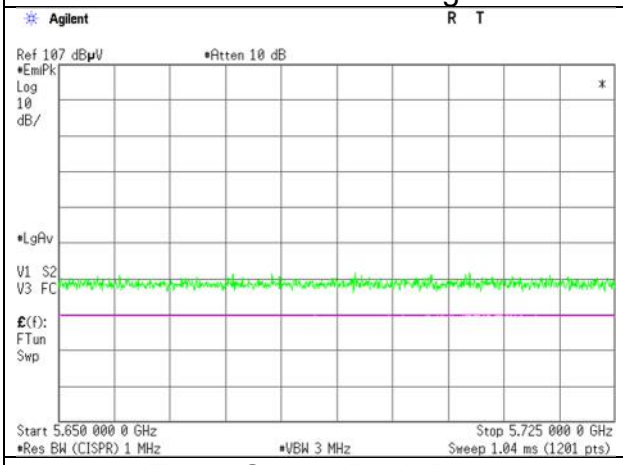
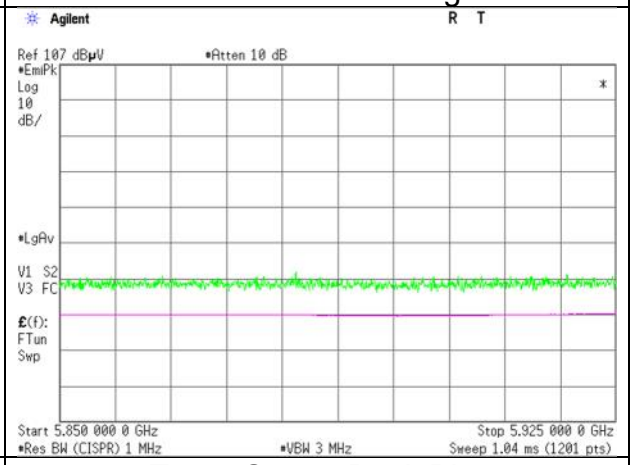
(* PK: Peak, AV: Average, QP: Quasi-Peak)

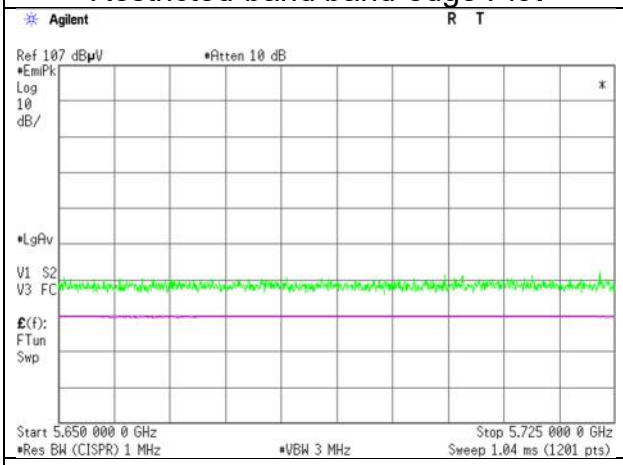
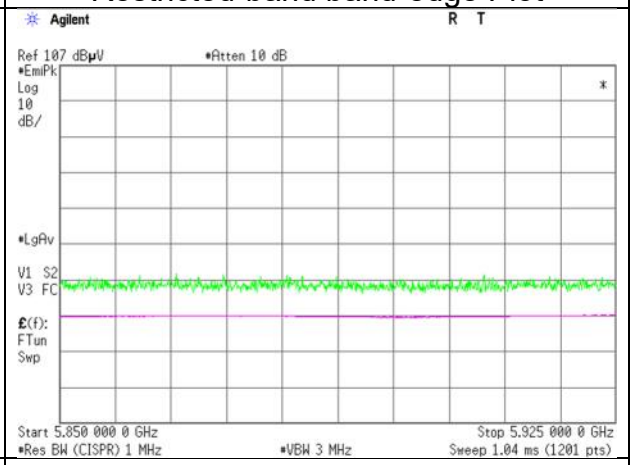
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.80	32.94	17.61	43.39	2.49	58.45	-36.78	27.0	63.7	174	118	-
Hori.	5855.000	PK	48.77	32.95	17.61	43.39	2.49	58.43	-36.80	15.6	52.4	174	118	-
Hori.	5875.000	PK	49.24	32.98	17.64	43.39	2.49	58.96	-36.27	10.0	46.2	174	118	-
Hori.	5925.000	PK	49.56	33.06	17.66	43.38	2.49	59.39	-35.84	-27.0	8.8	174	118	-
Vert.	5850.000	PK	49.40	32.94	17.61	43.39	2.49	59.05	-36.18	27.0	63.1	146	259	-
Vert.	5855.000	PK	49.98	32.95	17.61	43.39	2.49	59.64	-35.59	15.6	51.1	146	259	-
Vert.	5875.000	PK	49.82	32.98	17.64	43.39	2.49	59.54	-35.69	10.0	45.6	146	259	-
Vert.	5925.000	PK	50.23	33.06	17.66	43.38	2.49	60.06	-35.17	-27.0	**8.1**	146	259	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 26, 2023
Temperature / Humidity	25 deg. C / 22 % RH
Engineer	Yasumasa Owaki
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5775 MHz With DH5 Hopping

RU Index 61	RU Index 64
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 61	RU Index 64
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5775 MHz With DH5 Hopping

RU Index 65

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.73	32.44	17.50	43.44	2.49	57.72	-37.51	-27.0	10.5	176	118	-
Hori.	5700.000	PK	48.69	32.56	17.52	43.43	2.49	57.83	-37.40	10.0	47.4	176	118	-
Hori.	5720.000	PK	49.21	32.61	17.53	43.42	2.49	58.42	-36.81	15.6	52.4	176	118	-
Hori.	5725.000	PK	49.00	32.63	17.53	43.42	2.49	58.23	-37.00	27.0	64.0	176	118	-
Vert.	5650.000	PK	49.06	32.44	17.50	43.44	2.49	58.05	-37.18	-27.0	**10.1**	220	248	-
Vert.	5700.000	PK	48.72	32.56	17.52	43.43	2.49	57.86	-37.37	10.0	47.3	220	248	-
Vert.	5720.000	PK	49.69	32.61	17.53	43.42	2.49	58.90	-36.33	15.6	51.9	220	248	-
Vert.	5725.000	PK	49.87	32.63	17.53	43.42	2.49	59.10	-36.13	27.0	63.1	220	248	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

RU Index 66

(Calculation) (above 1 GHz Outside of the restricted band)

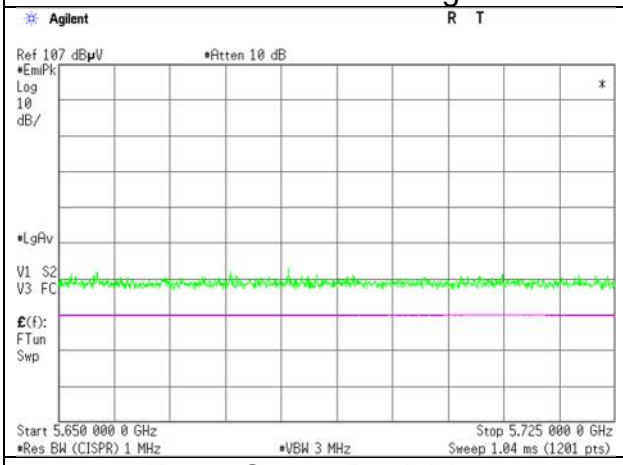
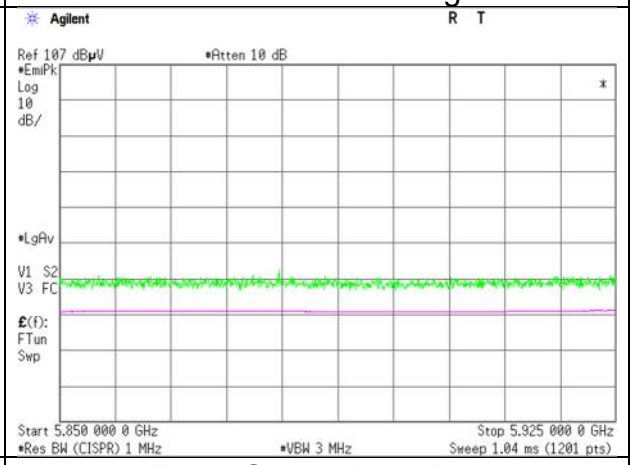
(* PK: Peak, AV: Average, QP: Quasi-Peak)

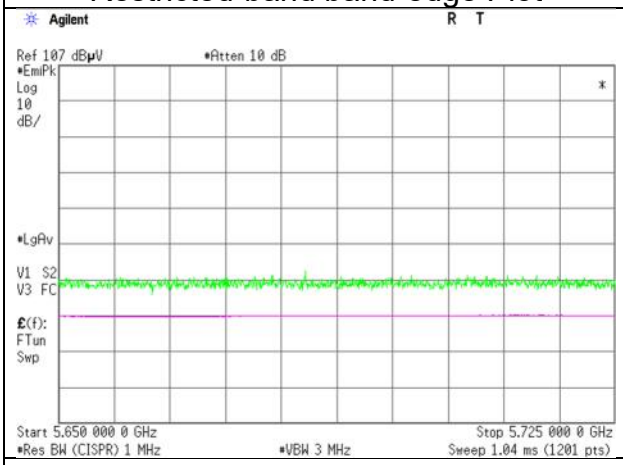
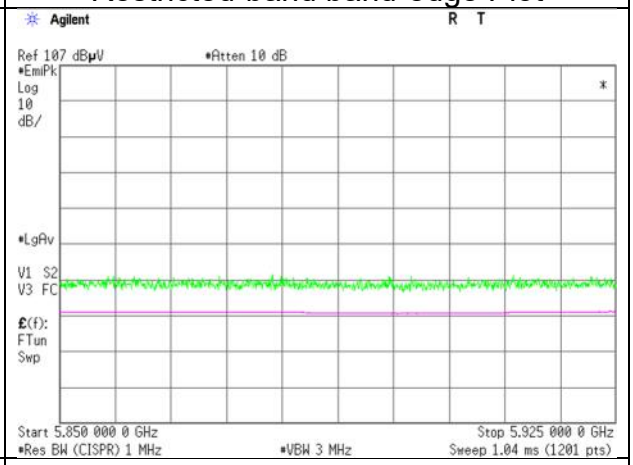
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.72	32.94	17.61	43.39	2.49	59.37	-35.86	27.0	62.8	176	121	-
Hori.	5855.000	PK	49.22	32.95	17.61	43.39	2.49	58.88	-36.35	15.6	51.9	176	121	-
Hori.	5875.000	PK	49.36	32.98	17.64	43.39	2.49	59.08	-36.15	10.0	46.1	176	121	-
Hori.	5925.000	PK	49.21	33.06	17.66	43.38	2.49	59.04	-36.19	-27.0	9.1	176	121	-
Vert.	5850.000	PK	48.83	32.94	17.61	43.39	2.49	58.48	-36.75	27.0	63.7	234	238	-
Vert.	5855.000	PK	49.02	32.95	17.61	43.39	2.49	58.68	-36.55	15.6	52.1	234	238	-
Vert.	5875.000	PK	48.76	32.98	17.64	43.39	2.49	58.48	-36.75	10.0	46.7	234	238	-
Vert.	5925.000	PK	49.77	33.06	17.66	43.38	2.49	59.60	-35.63	-27.0	**8.6**	234	238	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5775 MHz With DH5 Hopping

RU Index 65	RU Index 66
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 65	RU Index 66
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome (1 GHz -6.4 GHz)
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5775 MHz With DH5 Hopping

RU Index 67

(Calculation) (above 1 GHz Outside of the restricted band)

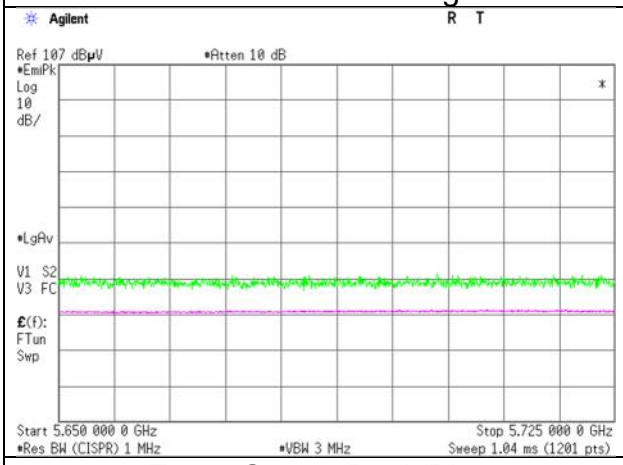
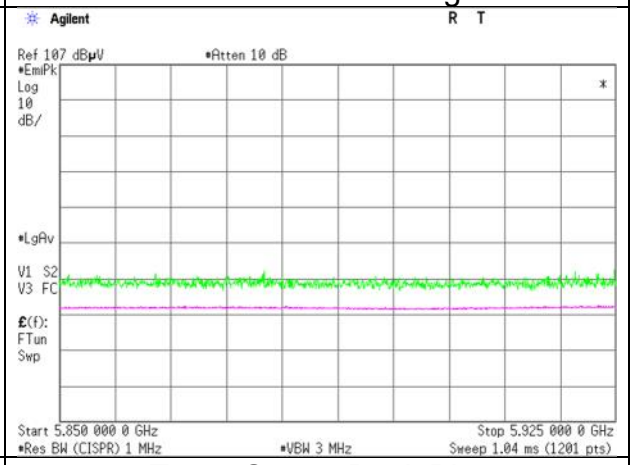
(* PK: Peak, AV: Average, QP: Quasi-Peak)

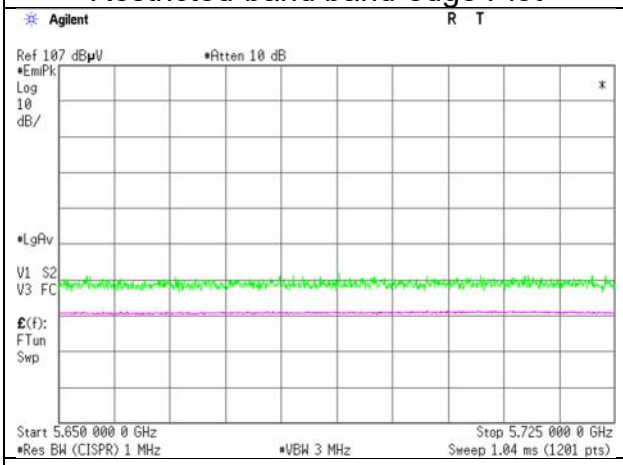
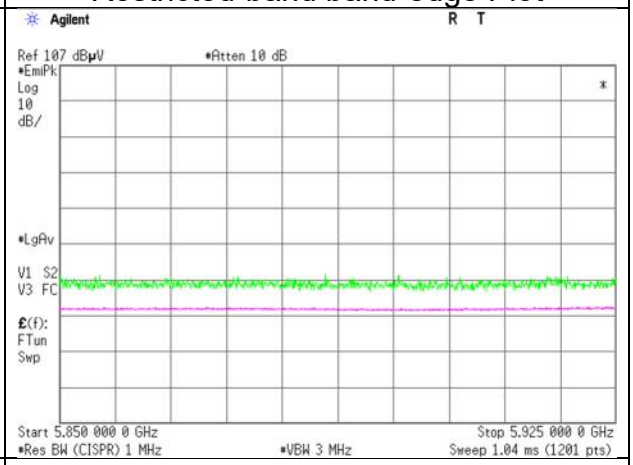
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.20	32.44	17.50	43.44	2.49	58.19	-37.04	-27.0	10.0	177	119	-
Hori.	5700.000	PK	48.79	32.56	17.52	43.43	2.49	57.93	-37.30	10.0	47.3	177	119	-
Hori.	5720.000	PK	49.17	32.61	17.53	43.42	2.49	58.38	-36.85	15.6	52.4	177	119	-
Hori.	5725.000	PK	49.01	32.63	17.53	43.42	2.49	58.24	-36.99	27.0	63.9	177	119	-
Hori.	5850.000	PK	48.55	32.94	17.61	43.39	2.49	58.20	-37.03	27.0	64.0	177	119	-
Hori.	5855.000	PK	49.16	32.95	17.61	43.39	2.49	58.82	-36.41	15.6	52.0	177	119	-
Hori.	5875.000	PK	48.46	32.98	17.64	43.39	2.49	58.18	-37.05	10.0	47.0	177	119	-
Hori.	5925.000	PK	49.05	33.06	17.66	43.38	2.49	58.88	-36.35	-27.0	**9.3**	177	119	-
Vert.	5650.000	PK	49.01	32.44	17.50	43.44	2.49	58.00	-37.23	-27.0	10.2	141	293	-
Vert.	5700.000	PK	49.64	32.56	17.52	43.43	2.49	58.78	-36.45	10.0	46.4	141	293	-
Vert.	5720.000	PK	49.90	32.61	17.53	43.42	2.49	59.11	-36.12	15.6	51.7	141	293	-
Vert.	5725.000	PK	49.58	32.63	17.53	43.42	2.49	58.81	-36.42	27.0	63.4	141	293	-
Vert.	5850.000	PK	48.98	32.94	17.61	43.39	2.49	58.63	-36.60	27.0	63.6	141	293	-
Vert.	5855.000	PK	48.88	32.95	17.61	43.39	2.49	58.54	-36.69	15.6	52.2	141	293	-
Vert.	5875.000	PK	49.53	32.98	17.64	43.39	2.49	59.25	-35.98	10.0	45.9	141	293	-
Vert.	5925.000	PK	49.08	33.06	17.66	43.38	2.49	58.91	-36.32	-27.0	**9.3**	141	293	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 27, 2023
Temperature / Humidity	23 deg. C / 25 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5775 MHz With DH5 Hopping

RU Index 67	RU Index 67
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

RU Index 67	RU Index 67
Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11a, 5180 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.72	32.16	17.18	43.07	2.49	57.48	73.9	16.4	176	119	-
Hori.	5150.000	AV	38.28	32.16	17.18	43.07	2.49	47.04	53.9	**6.8**	176	119	VBW:3.6 kHz
Vert.	5150.000	PK	49.46	32.16	17.18	43.07	2.49	58.22	73.9	15.6	217	140	-
Vert.	5150.000	AV	36.39	32.16	17.18	43.07	2.49	45.15	53.9	8.7	217	140	VBW:3.6 kHz

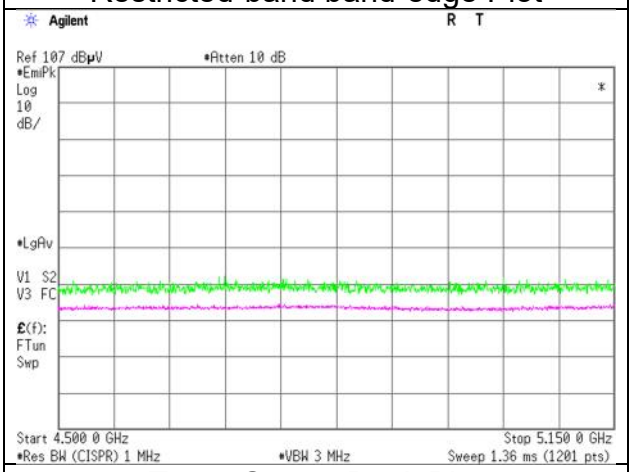
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5180 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

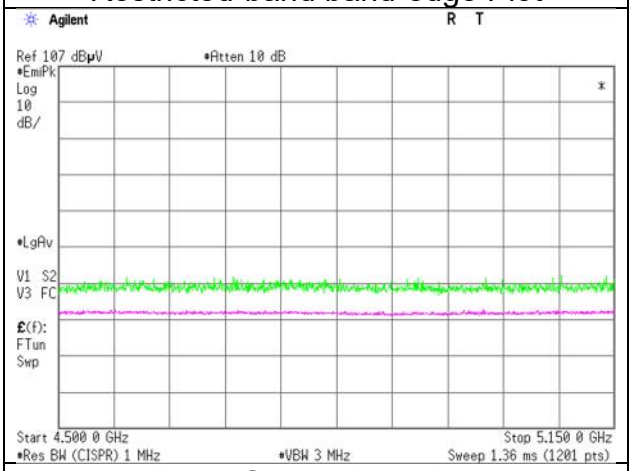
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11a, 5320 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.93	31.98	17.30	43.30	2.49	57.40	73.9	16.5	168	122	-
Hori.	5350.000	AV	38.97	31.98	17.30	43.30	2.49	47.44	53.9	**6.4**	168	122	VBW:3.6 kHz
Vert.	5350.000	PK	49.01	31.98	17.30	43.30	2.49	57.48	73.9	16.4	219	142	-
Vert.	5350.000	AV	38.92	31.98	17.30	43.30	2.49	47.39	53.9	6.5	219	142	VBW:3.6 kHz

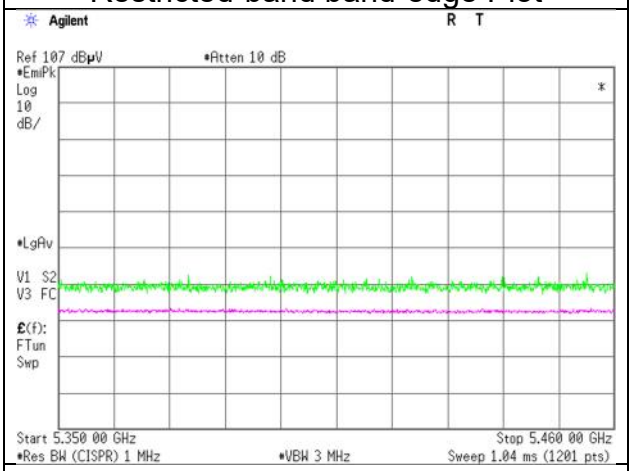
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5320 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

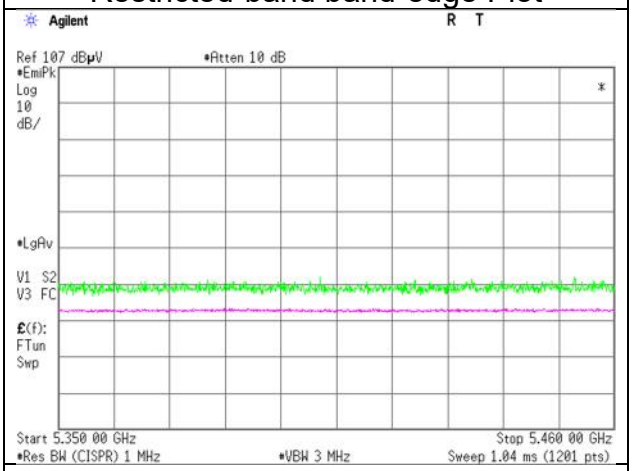
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11a, 5500 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Vert.	5460.000	PK	48.96	32.24	17.38	43.42	2.49	57.65	73.9	16.2	221	239	-
Vert.	5460.000	AV	38.92	32.24	17.38	43.42	2.49	47.61	53.9	**6.2**	221	239	VBW:3.6 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.12	32.25	17.39	43.44	2.49	57.81	-37.42	-27.0	10.4	170	116	-
Vert.	5470.000	PK	49.21	32.25	17.39	43.44	2.49	57.90	-37.33	-27.0	10.3	221	239	-

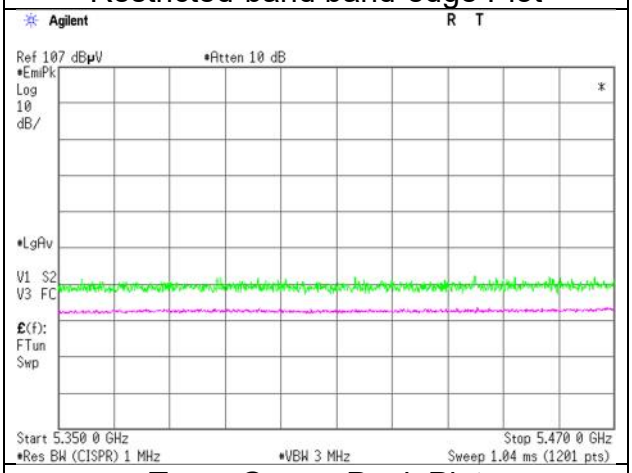
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5500 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

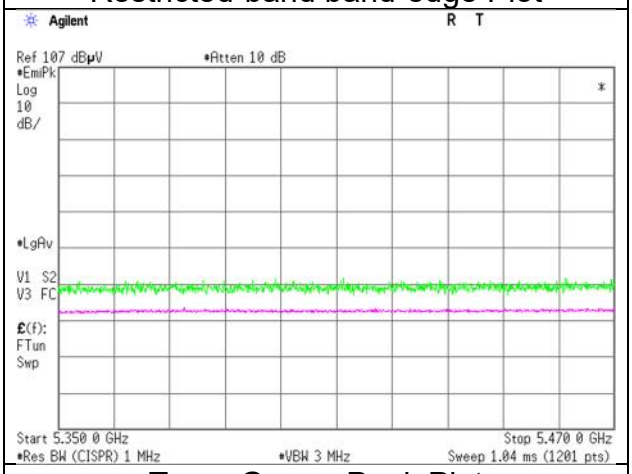
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11a, 5700 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.30	32.63	17.53	43.42	2.49	58.53	-36.70	-27.0	**9.7**	195	114	-
Vert.	5725.000	PK	48.81	32.63	17.53	43.42	2.49	58.04	-37.19	-27.0	10.1	209	254	-

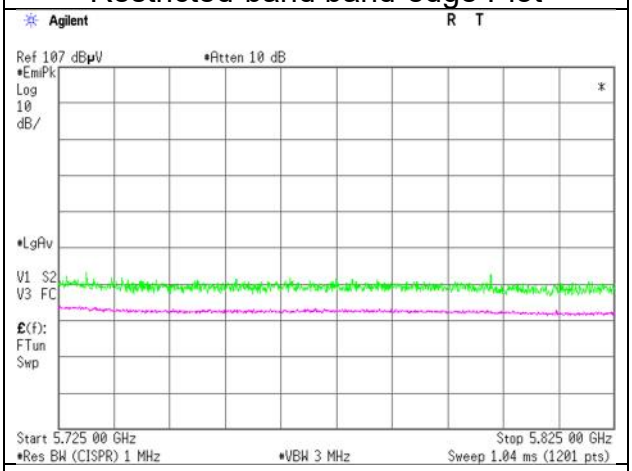
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5700 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

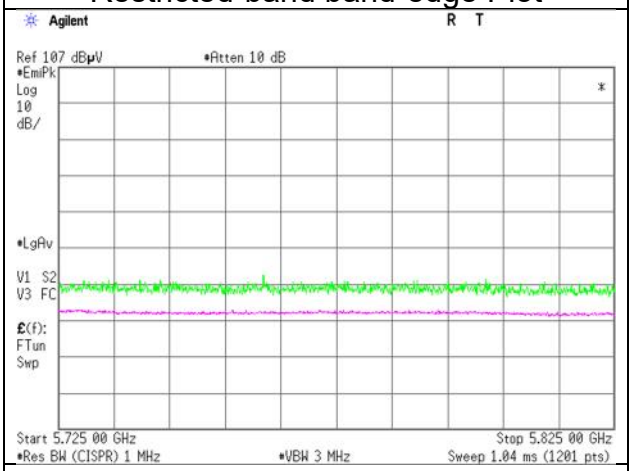
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
	(1 GHz - 6.4 GHz)
Mode	Tx 11a, 5745 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.48	32.44	17.50	43.44	2.49	57.47	-37.76	-27.0	10.7	191	116	-
Hori.	5700.000	PK	49.53	32.56	17.52	43.43	2.49	58.67	-36.56	10.0	46.5	191	116	-
Hori.	5720.000	PK	49.55	32.61	17.53	43.42	2.49	58.76	-36.47	15.6	52.0	191	116	-
Hori.	5725.000	PK	49.72	32.63	17.53	43.42	2.49	58.95	-36.28	27.0	63.2	191	116	-
Vert.	5650.000	PK	49.01	32.44	17.50	43.44	2.49	58.00	-37.23	-27.0	**10.2**	166	249	-
Vert.	5700.000	PK	49.21	32.56	17.52	43.43	2.49	58.35	-36.88	10.0	46.8	166	249	-
Vert.	5720.000	PK	49.25	32.61	17.53	43.42	2.49	58.46	-36.77	15.6	52.3	166	249	-
Vert.	5725.000	PK	49.68	32.63	17.53	43.42	2.49	58.91	-36.32	27.0	63.3	166	249	-

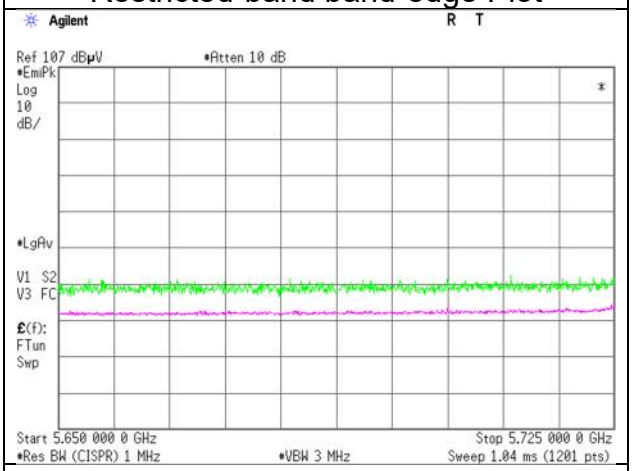
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5745 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

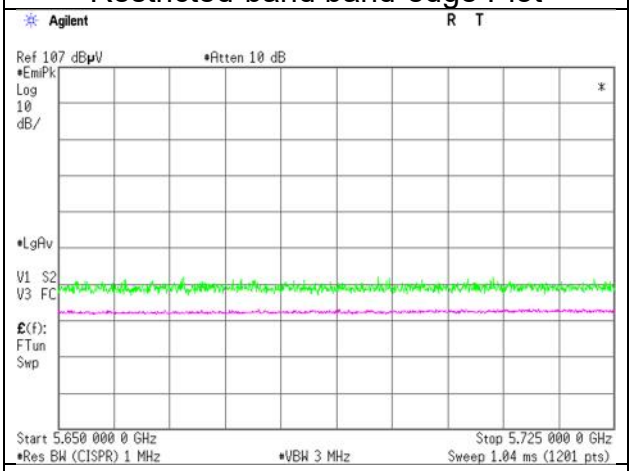
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
	(1 GHz - 6.4 GHz)
Mode	Tx 11a, 5825 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.38	32.94	17.61	43.39	2.49	59.03	-36.20	27.0	63.2	201	117	-
Hori.	5855.000	PK	49.62	32.95	17.61	43.39	2.49	59.28	-35.95	15.6	51.5	201	117	-
Hori.	5875.000	PK	50.21	32.98	17.64	43.39	2.49	59.93	-35.30	10.0	45.3	201	117	-
Hori.	5925.000	PK	50.35	33.06	17.66	43.38	2.49	60.18	-35.05	-27.0	**8.0**	201	117	-
Vert.	5850.000	PK	48.49	32.94	17.61	43.39	2.49	58.14	-37.09	27.0	64.0	222	253	-
Vert.	5855.000	PK	48.87	32.95	17.61	43.39	2.49	58.53	-36.70	15.6	52.3	222	253	-
Vert.	5875.000	PK	49.33	32.98	17.64	43.39	2.49	59.05	-36.18	10.0	46.1	222	253	-
Vert.	5925.000	PK	49.34	33.06	17.66	43.38	2.49	59.17	-36.06	-27.0	9.0	222	253	-

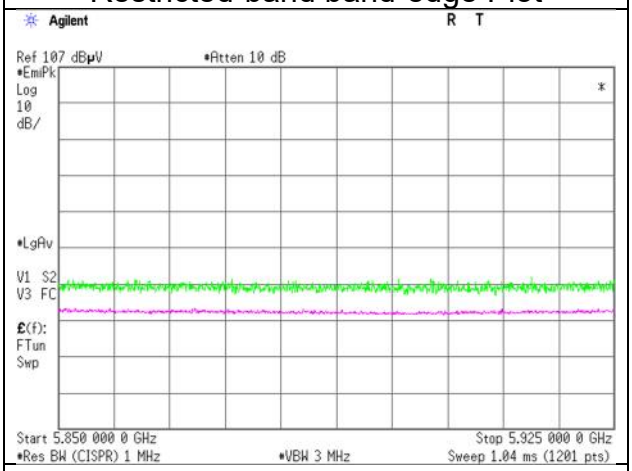
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11a, 5825 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

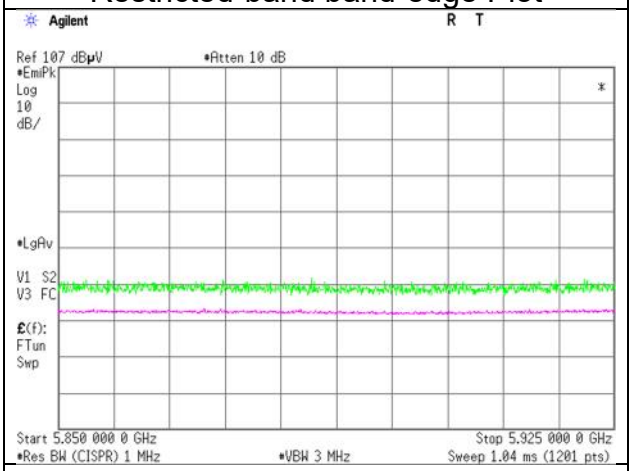
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5180 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.01	32.16	17.18	43.07	2.49	58.77	73.9	15.1	178	117	-
Hori.	5150.000	AV	36.81	32.16	17.18	43.07	2.49	45.57	53.9	**8.3**	178	117	VBW:10 Hz
Vert.	5150.000	PK	48.86	32.16	17.18	43.07	2.49	57.62	73.9	16.2	222	139	-
Vert.	5150.000	AV	36.47	32.16	17.18	43.07	2.49	45.23	53.9	8.6	222	139	VBW:10 Hz

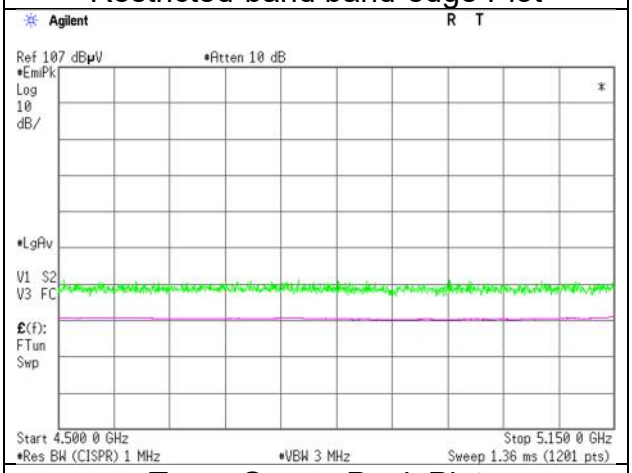
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11n-20, 5180 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

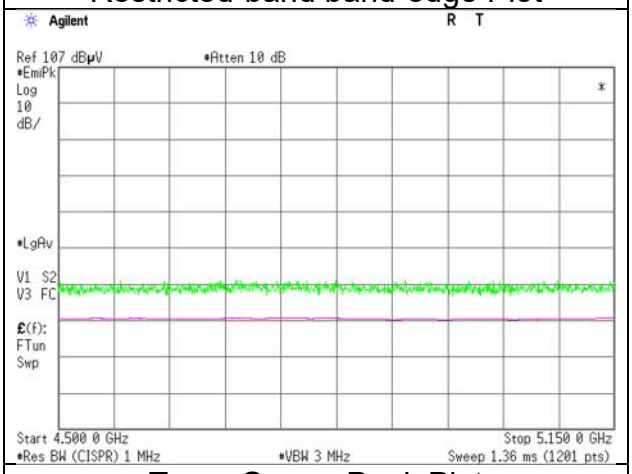
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5320 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.94	31.98	17.30	43.30	2.49	57.41	73.9	16.4	195	120	-
Hori.	5350.000	AV	37.26	31.98	17.30	43.30	2.49	45.73	53.9	**8.1**	195	120	VBW:10 Hz
Vert.	5350.000	PK	48.92	31.98	17.30	43.30	2.49	57.39	73.9	16.5	236	143	-
Vert.	5350.000	AV	36.87	31.98	17.30	43.30	2.49	45.34	53.9	8.5	236	143	VBW:10 Hz

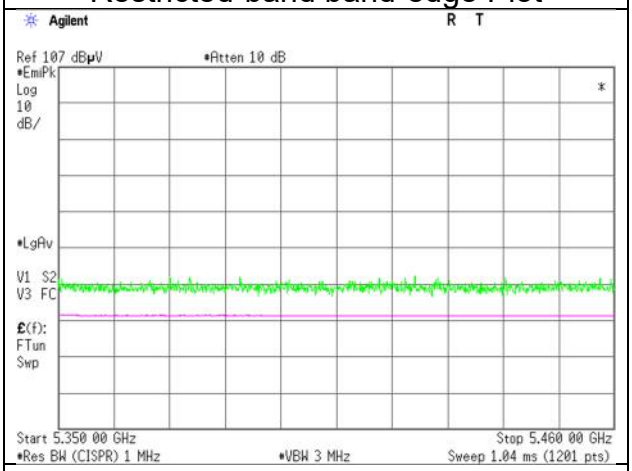
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11n-20, 5320 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

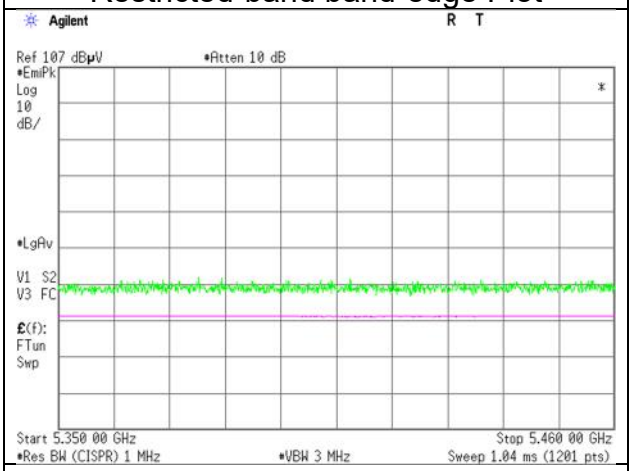
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato (1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5500 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.85	32.24	17.38	43.42	2.49	58.54	73.9	15.3	194	117	-
Hori.	5460.000	AV	37.44	32.24	17.38	43.42	2.49	46.13	53.9	**7.7**	194	117	VBW:10 Hz
Vert.	5460.000	PK	49.37	32.24	17.38	43.42	2.49	58.06	73.9	15.8	237	133	-
Vert.	5460.000	AV	37.15	32.24	17.38	43.42	2.49	45.84	53.9	8.0	237	133	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.67	32.25	17.39	43.44	2.49	58.36	-36.87	-27.0	9.8	194	117	-
Vert.	5470.000	PK	49.39	32.25	17.39	43.44	2.49	58.08	-37.15	-27.0	10.1	237	133	-

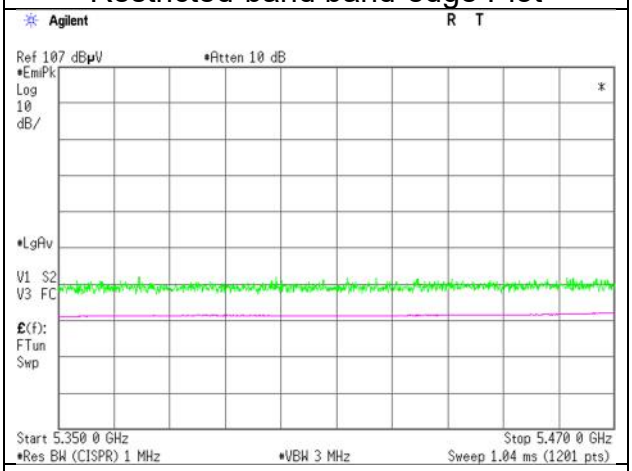
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11n-20, 5500 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

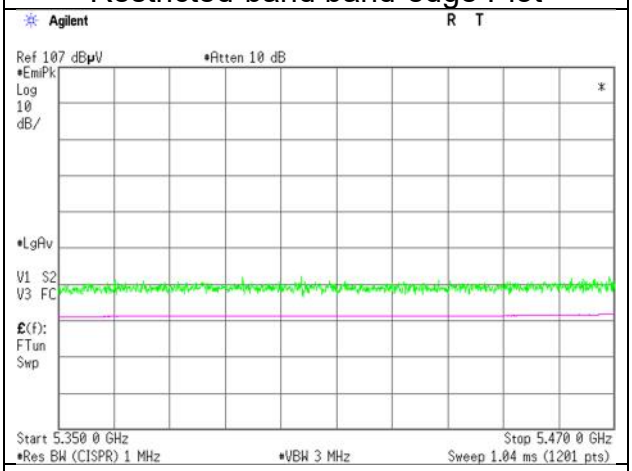
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5700 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	51.09	32.63	17.53	43.42	2.49	60.32	-34.91	-27.0	**7.9**	180	121	-
Vert.	5725.000	PK	49.42	32.63	17.53	43.42	2.49	58.65	-36.58	-27.0	9.5	169	247	-

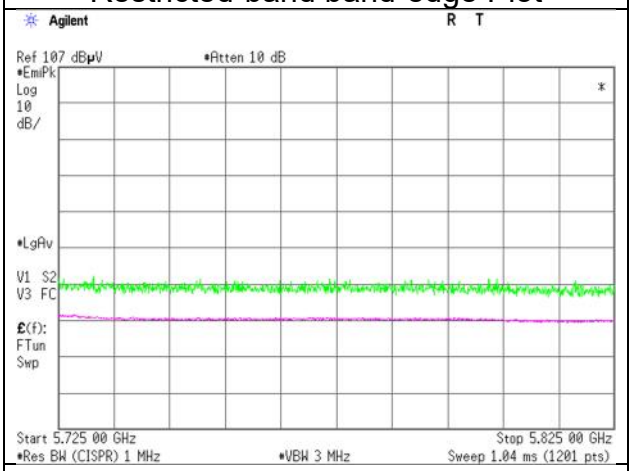
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11n-20, 5700 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

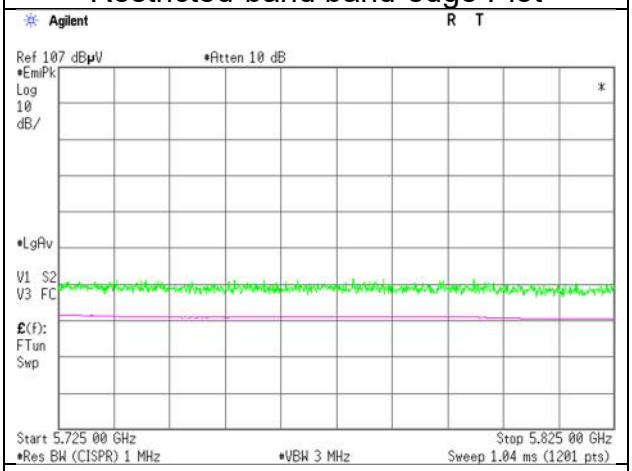
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5745 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.43	32.44	17.50	43.44	2.49	58.42	-36.81	-27.0	**9.8**	181	119	-
Hori.	5700.000	PK	49.22	32.56	17.52	43.43	2.49	58.36	-36.87	10.0	46.8	181	119	-
Hori.	5720.000	PK	49.31	32.61	17.53	43.42	2.49	58.52	-36.71	15.6	52.3	181	119	-
Hori.	5725.000	PK	49.53	32.63	17.53	43.42	2.49	58.76	-36.47	27.0	63.4	181	119	-
Vert.	5650.000	PK	48.23	32.44	17.50	43.44	2.49	57.22	-38.01	-27.0	11.0	166	248	-
Vert.	5700.000	PK	48.34	32.56	17.52	43.43	2.49	57.48	-37.75	10.0	47.7	166	248	-
Vert.	5720.000	PK	48.89	32.61	17.53	43.42	2.49	58.10	-37.13	15.6	52.7	166	248	-
Vert.	5725.000	PK	49.19	32.63	17.53	43.42	2.49	58.42	-36.81	27.0	63.8	166	248	-

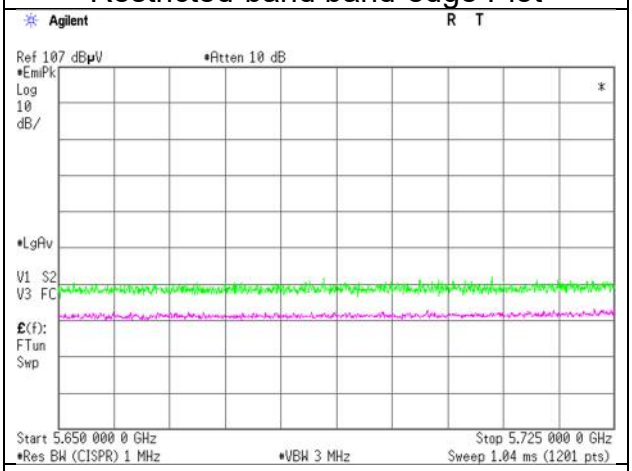
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11n-20, 5745 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

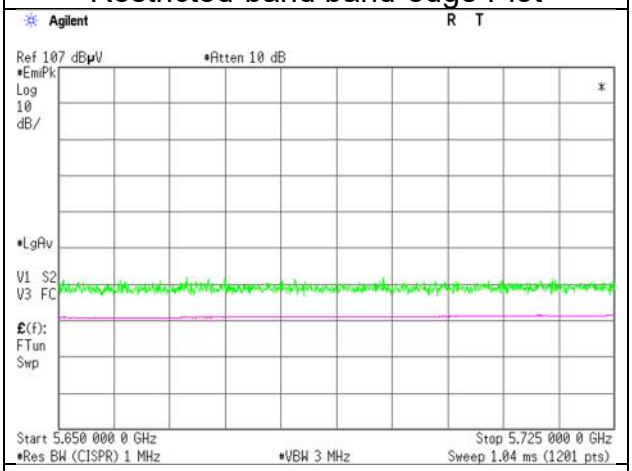
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
	(1 GHz - 6.4 GHz)
Mode	Tx 11n-20, 5825 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.49	32.94	17.61	43.39	2.49	59.14	-36.09	27.0	63.0	178	118	-
Hori.	5855.000	PK	49.06	32.95	17.61	43.39	2.49	58.72	-36.51	15.6	52.1	178	118	-
Hori.	5875.000	PK	49.08	32.98	17.64	43.39	2.49	58.80	-36.43	10.0	46.4	178	118	-
Hori.	5925.000	PK	49.46	33.06	17.66	43.38	2.49	59.29	-35.94	-27.0	**8.9**	178	118	-
Vert.	5850.000	PK	49.34	32.94	17.61	43.39	2.49	58.99	-36.24	27.0	63.2	169	120	-
Vert.	5855.000	PK	49.04	32.95	17.61	43.39	2.49	58.70	-36.53	15.6	52.1	169	120	-
Vert.	5875.000	PK	49.24	32.98	17.64	43.39	2.49	58.96	-36.27	10.0	46.2	169	120	-
Vert.	5925.000	PK	49.07	33.06	17.66	43.38	2.49	58.90	-36.33	-27.0	9.3	169	120	-

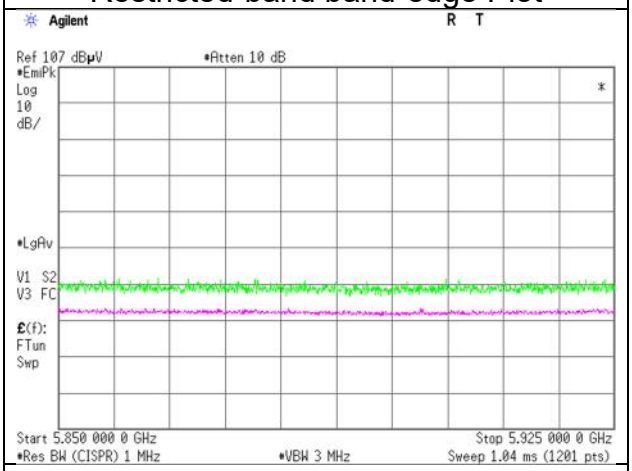
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	24 deg.C, 30 %RH
Engineer	Hiromasa Sato
Mode	Tx 11n-20, 5825 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

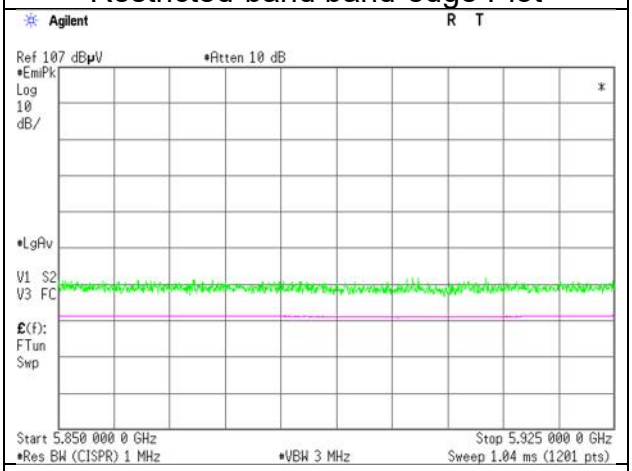
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5180 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.12	32.16	17.18	43.07	2.49	57.88	73.9	16.0	149	125	-
Hori.	5150.000	AV	36.34	32.16	17.18	43.07	2.49	45.10	53.9	8.8	149	125	VBW:10 Hz
Vert.	5150.000	PK	48.48	32.16	17.18	43.07	2.49	57.24	73.9	16.6	235	143	-
Vert.	5150.000	AV	36.49	32.16	17.18	43.07	2.49	45.25	53.9	**8.6**	235	143	VBW:10 Hz

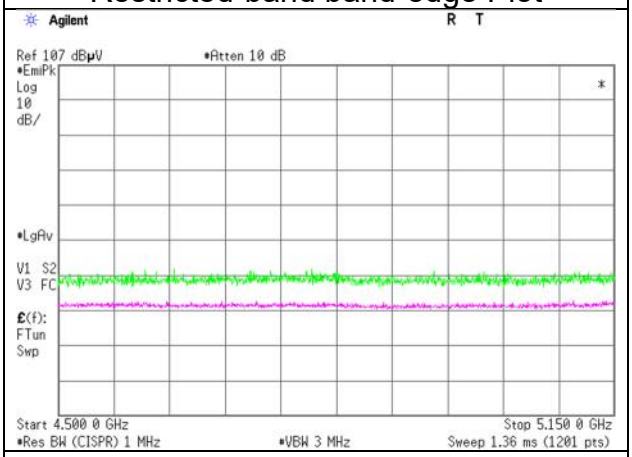
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-20, 5180 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

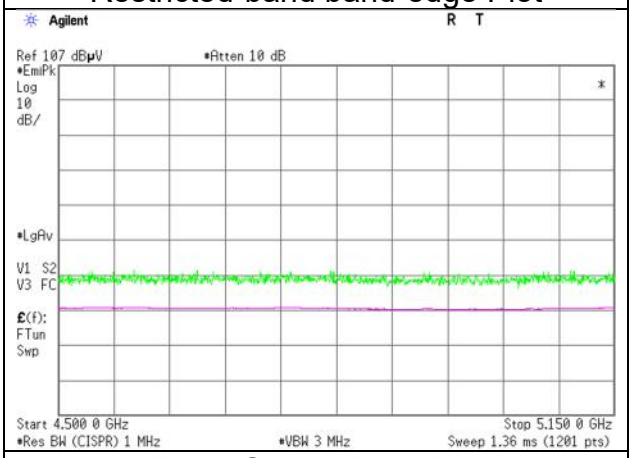
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5320 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.92	31.98	17.30	43.30	2.49	58.39	73.9	15.5	176	122	-
Hori.	5350.000	AV	37.16	31.98	17.30	43.30	2.49	45.63	53.9	**8.2**	176	122	VBW:10 Hz
Vert.	5350.000	PK	49.13	31.98	17.30	43.30	2.49	57.60	73.9	16.3	234	140	-
Vert.	5350.000	AV	36.76	31.98	17.30	43.30	2.49	45.23	53.9	8.6	234	140	VBW:10 Hz

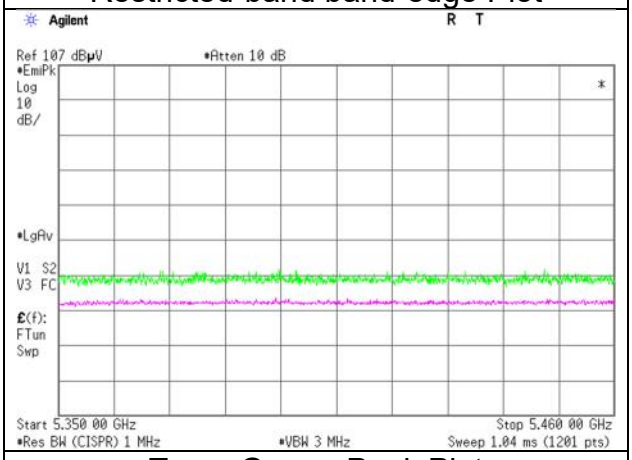
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-20, 5320 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

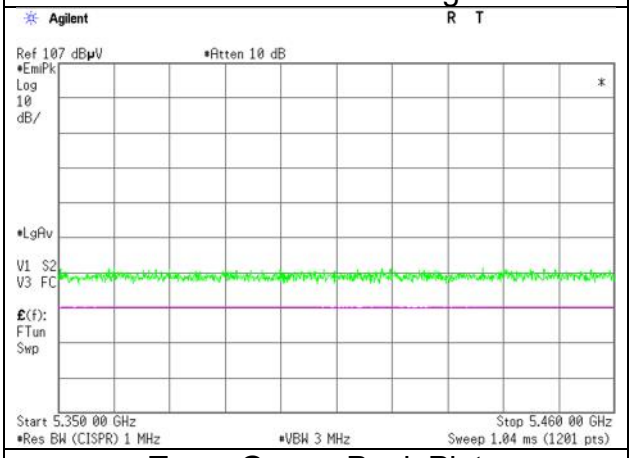
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5500 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.73	32.24	17.38	43.42	2.49	58.42	73.9	15.4	183	114	-
Hori.	5460.000	AV	37.22	32.24	17.38	43.42	2.49	45.91	53.9	**7.9**	183	114	VBW:10 Hz
Vert.	5460.000	PK	49.47	32.24	17.38	43.42	2.49	58.16	73.9	15.7	223	234	-
Vert.	5460.000	AV	37.07	32.24	17.38	43.42	2.49	45.76	53.9	8.1	223	234	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.33	32.25	17.39	43.44	2.49	59.02	-36.21	-27.0	9.2	183	114	-
Vert.	5470.000	PK	50.09	32.25	17.39	43.44	2.49	58.78	-36.45	-27.0	9.4	223	234	-

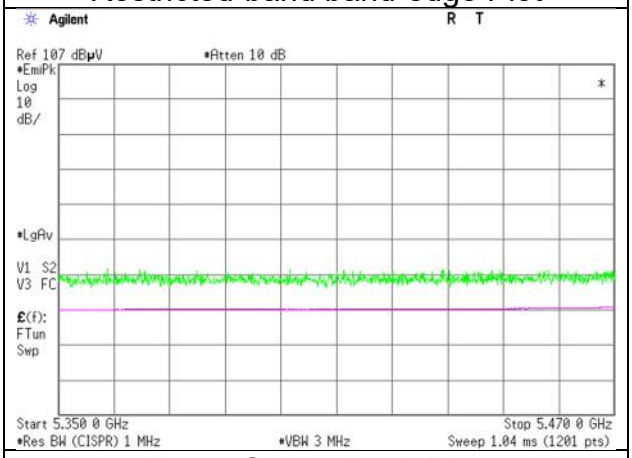
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-20, 5500 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

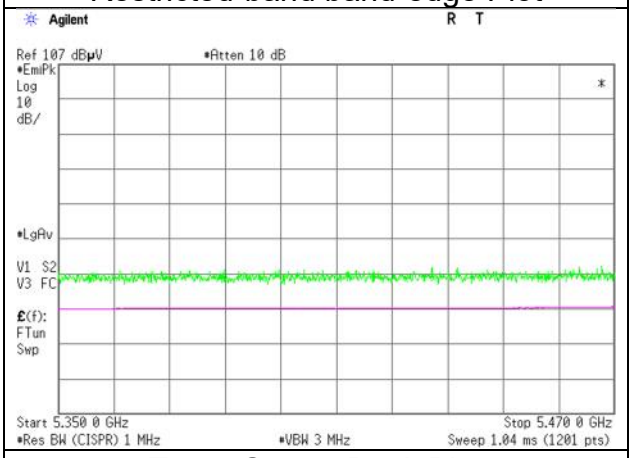
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5700 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.67	32.63	17.53	43.42	2.49	59.90	-35.33	-27.0	**8.3**	180	121	-
Vert.	5725.000	PK	49.13	32.63	17.53	43.42	2.49	58.36	-36.87	-27.0	9.8	171	248	-

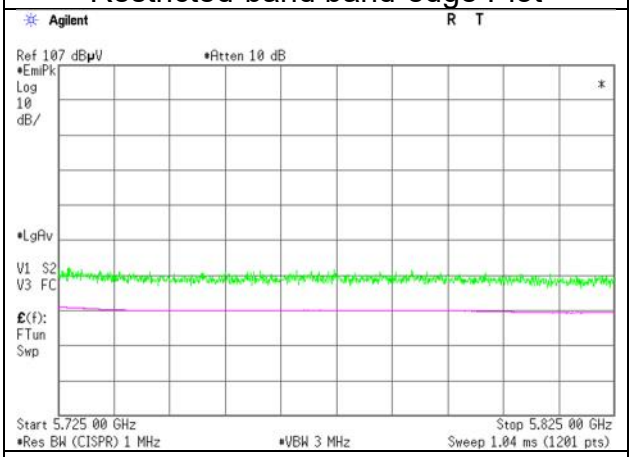
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-20, 5700 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

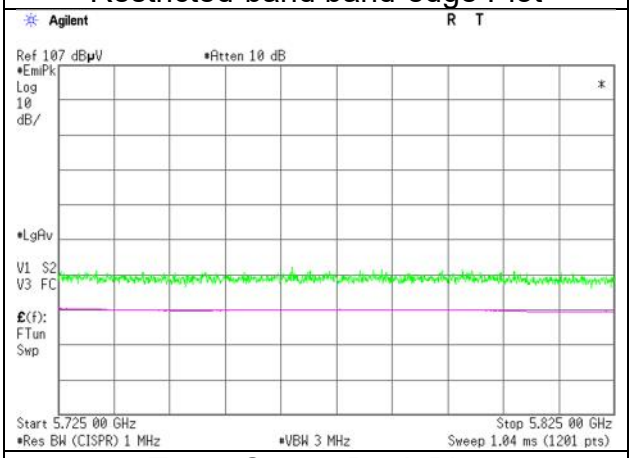
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5745 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.12	32.44	17.50	43.44	2.49	58.11	-37.12	-27.0	**10.1**	184	120	-
Hori.	5700.000	PK	49.43	32.56	17.52	43.43	2.49	58.57	-36.66	10.0	46.6	184	120	-
Hori.	5720.000	PK	49.43	32.61	17.53	43.42	2.49	58.64	-36.59	15.6	52.1	184	120	-
Hori.	5725.000	PK	49.21	32.63	17.53	43.42	2.49	58.44	-36.79	27.0	63.7	184	120	-
Vert.	5650.000	PK	48.45	32.44	17.50	43.44	2.49	57.44	-37.79	-27.0	10.7	165	247	-
Vert.	5700.000	PK	48.76	32.56	17.52	43.43	2.49	57.90	-37.33	10.0	47.3	165	247	-
Vert.	5720.000	PK	49.07	32.61	17.53	43.42	2.49	58.28	-36.95	15.6	52.5	165	247	-
Vert.	5725.000	PK	49.30	32.63	17.53	43.42	2.49	58.53	-36.70	27.0	63.7	165	247	-

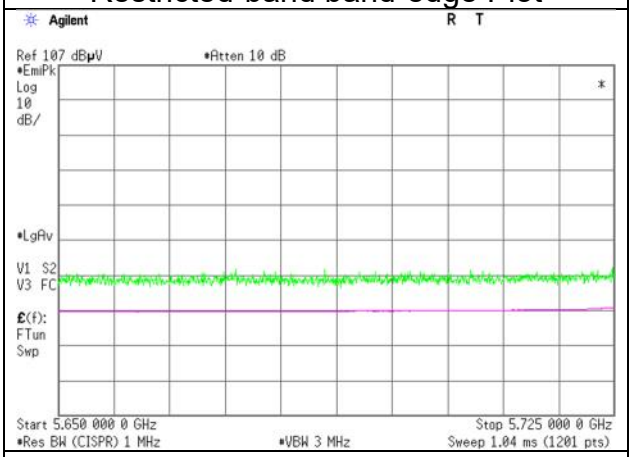
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-20, 5745 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

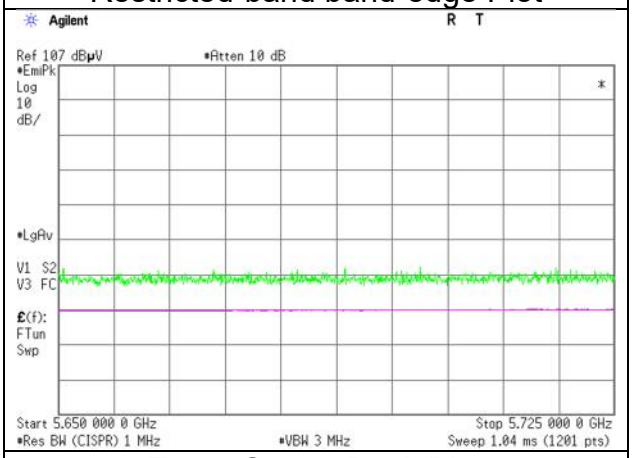
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-20, 5825 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.34	32.94	17.61	43.39	2.49	58.99	-36.24	27.0	63.2	179	120	-
Hori.	5855.000	PK	49.45	32.95	17.61	43.39	2.49	59.11	-36.12	15.6	51.7	179	120	-
Hori.	5875.000	PK	49.56	32.98	17.64	43.39	2.49	59.28	-35.95	10.0	45.9	179	120	-
Hori.	5925.000	PK	50.23	33.06	17.66	43.38	2.49	60.06	-35.17	-27.0	**8.1**	179	120	-
Vert.	5850.000	PK	49.76	32.94	17.61	43.39	2.49	59.41	-35.82	27.0	62.8	222	118	-
Vert.	5855.000	PK	49.00	32.95	17.61	43.39	2.49	58.66	-36.57	15.6	52.1	222	118	-
Vert.	5875.000	PK	48.87	32.98	17.64	43.39	2.49	58.59	-36.64	10.0	46.6	222	118	-
Vert.	5925.000	PK	49.11	33.06	17.66	43.38	2.49	58.94	-36.29	-27.0	9.2	222	118	-

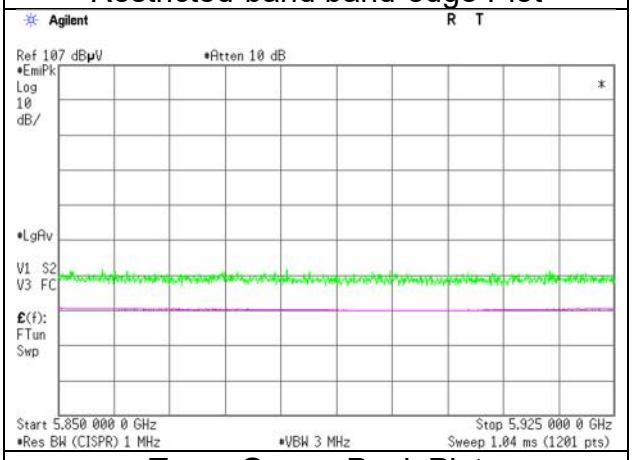
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-20, 5825 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

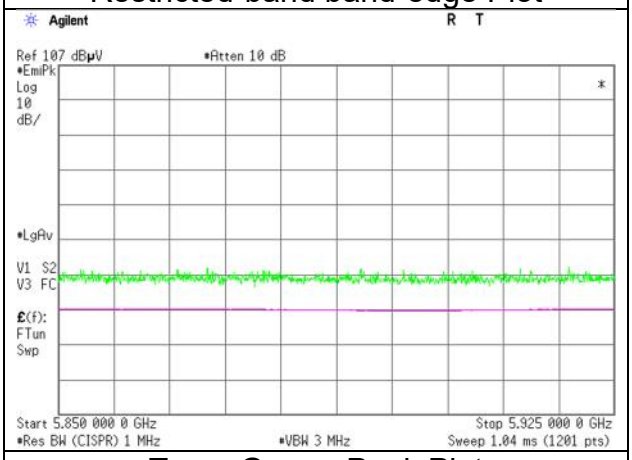
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5180 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.52	32.16	17.18	43.07	2.49	58.28	73.9	15.6	170	123	-
Hori.	5150.000	AV	35.06	32.16	17.18	43.07	2.49	43.82	53.9	10.0	170	123	VBW:10 Hz
Vert.	5150.000	PK	49.40	32.16	17.18	43.07	2.49	58.16	73.9	15.7	222	139	-
Vert.	5150.000	AV	36.51	32.16	17.18	43.07	2.49	45.27	53.9	**8.6**	222	139	VBW:10 Hz

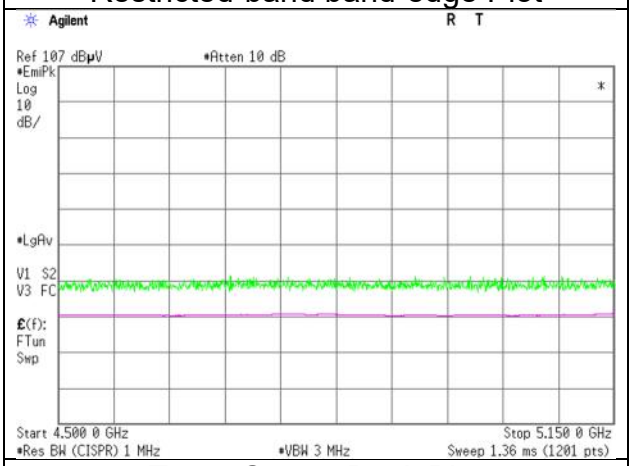
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5180 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

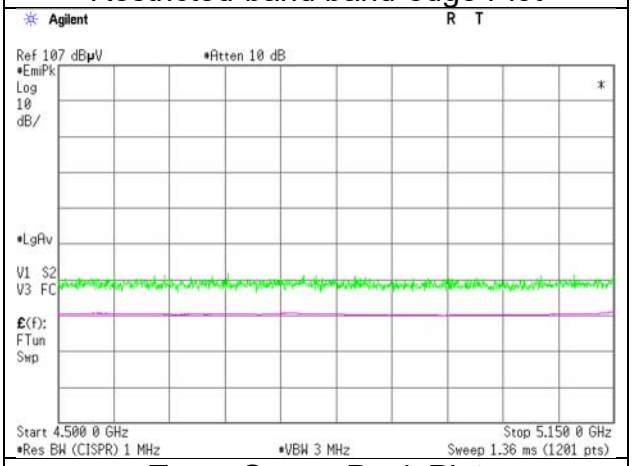
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5320 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.67	31.98	17.30	43.30	2.49	58.14	73.9	15.7	171	122	-
Hori.	5350.000	AV	35.55	31.98	17.30	43.30	2.49	44.02	53.9	9.8	171	122	VBW:10 Hz
Vert.	5350.000	PK	50.10	31.98	17.30	43.30	2.49	58.57	73.9	15.3	253	141	-
Vert.	5350.000	AV	36.88	31.98	17.30	43.30	2.49	45.35	53.9	**8.5**	253	141	VBW:10 Hz

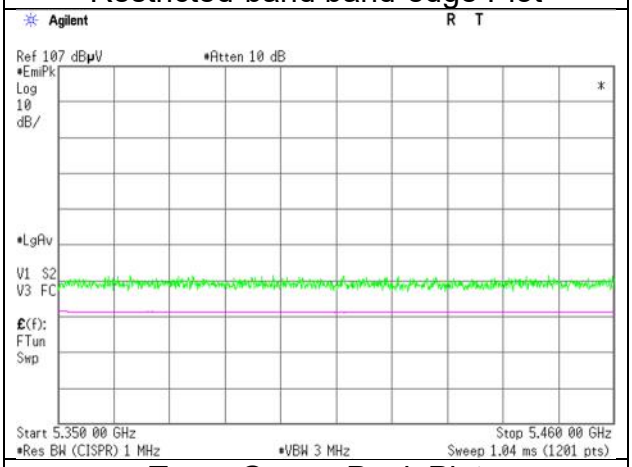
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5320 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

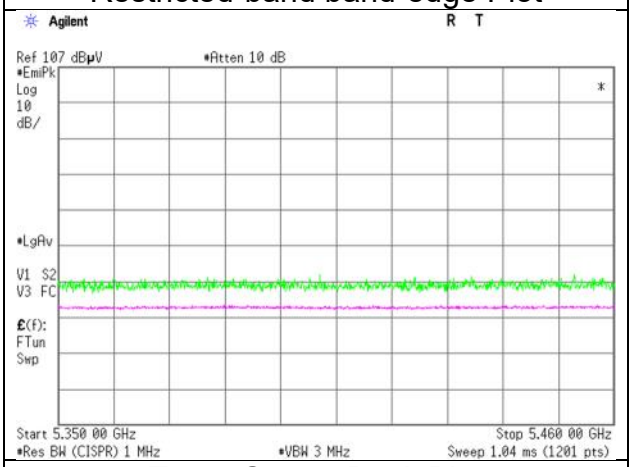
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5500 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.41	32.24	17.38	43.42	2.49	58.10	73.9	15.8	168	107	-
Hori.	5460.000	AV	35.87	32.24	17.38	43.42	2.49	44.56	53.9	9.3	168	107	VBW:10 Hz
Vert.	5460.000	PK	48.82	32.24	17.38	43.42	2.49	57.51	73.9	16.3	220	238	-
Vert.	5460.000	AV	37.09	32.24	17.38	43.42	2.49	45.78	53.9	**8.1**	220	238	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.64	32.25	17.39	43.44	2.49	59.33	-35.90	-27.0	8.9	168	107	-
Vert.	5470.000	PK	50.29	32.25	17.39	43.44	2.49	58.98	-36.25	-27.0	9.2	220	238	-

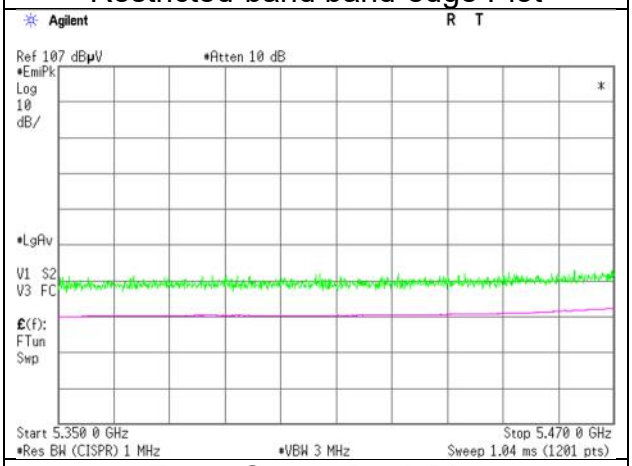
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5500 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

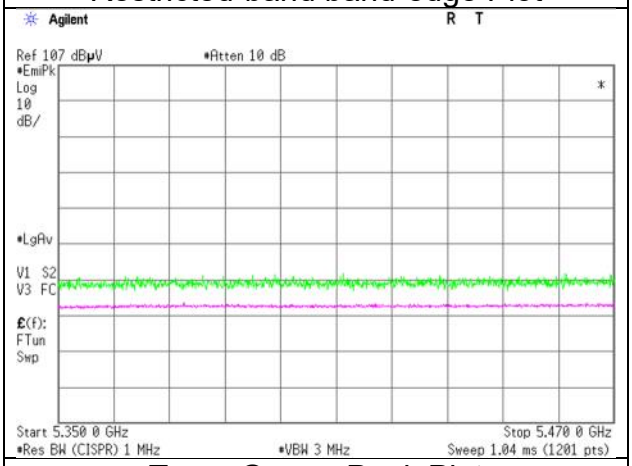
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5700 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.56	32.63	17.53	43.42	2.49	59.79	-35.44	-27.0	8.4	178	115	-
Vert.	5725.000	PK	50.83	32.63	17.53	43.42	2.49	60.06	-35.17	-27.0	**8.1**	211	253	-

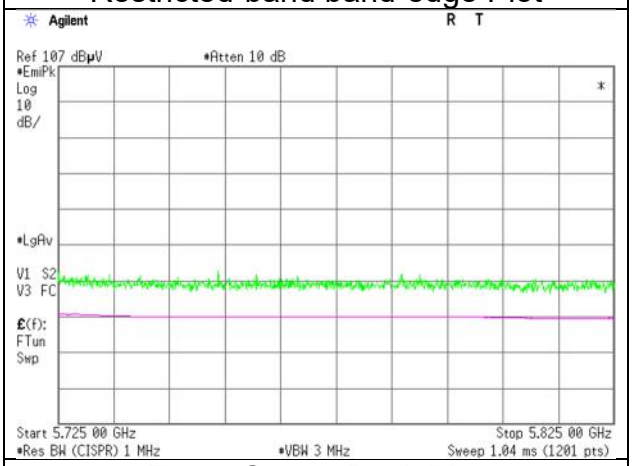
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5700 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

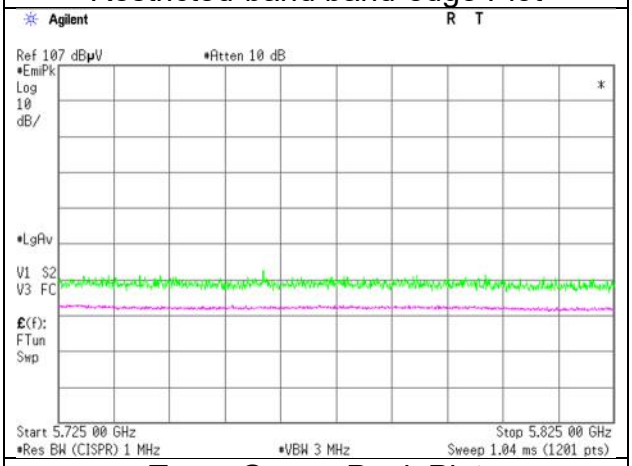
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5745 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.29	32.44	17.50	43.44	2.49	57.28	-37.95	-27.0	10.9	180	117	-
Hori.	5700.000	PK	49.21	32.56	17.52	43.43	2.49	58.35	-36.88	10.0	46.8	180	117	-
Hori.	5720.000	PK	49.68	32.61	17.53	43.42	2.49	58.89	-36.34	15.6	51.9	180	117	-
Hori.	5725.000	PK	51.70	32.63	17.53	43.42	2.49	60.93	-34.30	27.0	61.3	180	117	-
Vert.	5650.000	PK	48.91	32.44	17.50	43.44	2.49	57.90	-37.33	-27.0	**10.3**	167	246	-
Vert.	5700.000	PK	48.65	32.56	17.52	43.43	2.49	57.79	-37.44	10.0	47.4	167	246	-
Vert.	5720.000	PK	50.00	32.61	17.53	43.42	2.49	59.21	-36.02	15.6	51.6	167	246	-
Vert.	5725.000	PK	49.20	32.63	17.53	43.42	2.49	58.43	-36.80	27.0	63.8	167	246	-

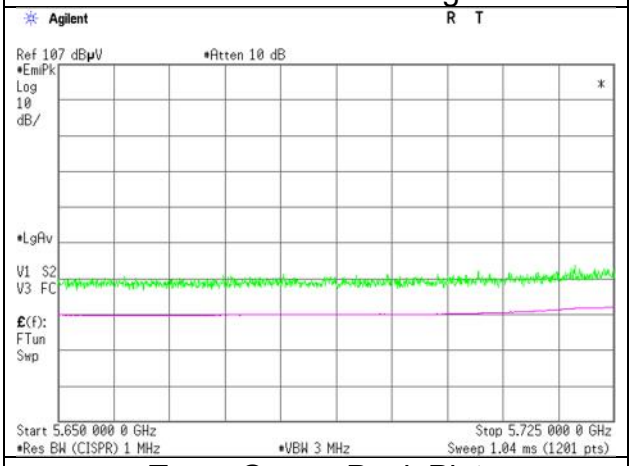
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5745 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

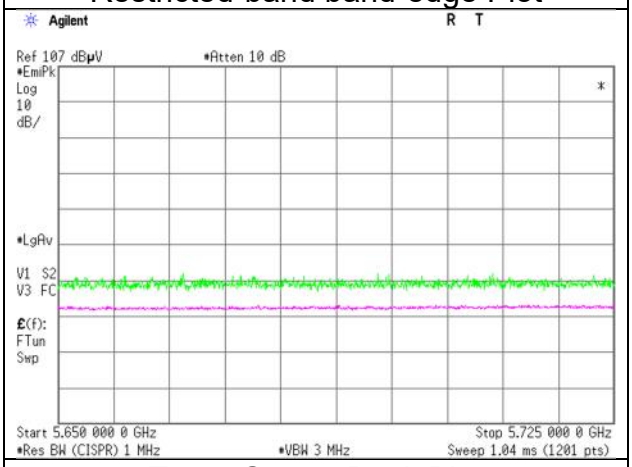
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ax-20 (OFDM), 5825 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.27	32.94	17.61	43.39	2.49	58.92	-36.31	27.0	63.3	172	125	-
Hori.	5855.000	PK	49.34	32.95	17.61	43.39	2.49	59.00	-36.23	15.6	51.8	172	125	-
Hori.	5875.000	PK	49.87	32.98	17.64	43.39	2.49	59.59	-35.64	10.0	45.6	172	125	-
Hori.	5925.000	PK	49.96	33.06	17.66	43.38	2.49	59.79	-35.44	-27.0	**8.4**	172	125	-
Vert.	5850.000	PK	49.28	32.94	17.61	43.39	2.49	58.93	-36.30	27.0	63.3	168	119	-
Vert.	5855.000	PK	49.14	32.95	17.61	43.39	2.49	58.80	-36.43	15.6	52.0	168	119	-
Vert.	5875.000	PK	49.95	32.98	17.64	43.39	2.49	59.67	-35.56	10.0	45.5	168	119	-
Vert.	5925.000	PK	49.02	33.06	17.66	43.38	2.49	58.85	-36.38	-27.0	9.3	168	119	-

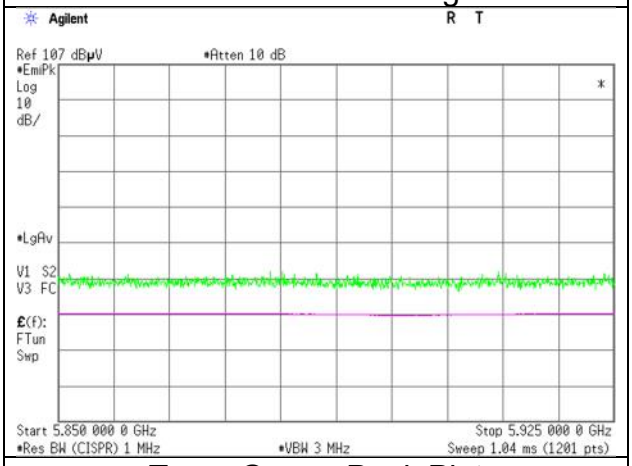
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDM), 5825 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

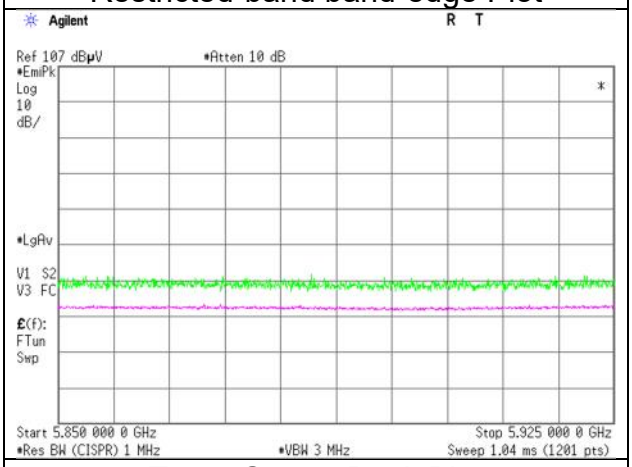
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5190 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.25	32.16	17.18	43.07	2.49	58.01	73.9	15.8	170	123	-
Hori.	5150.000	AV	35.70	32.16	17.18	43.07	2.49	44.46	53.9	9.4	170	123	VBW:10 Hz
Vert.	5150.000	PK	49.38	32.16	17.18	43.07	2.49	58.14	73.9	15.7	250	139	-
Vert.	5150.000	AV	36.50	32.16	17.18	43.07	2.49	45.26	53.9	**8.6**	250	139	VBW:10 Hz

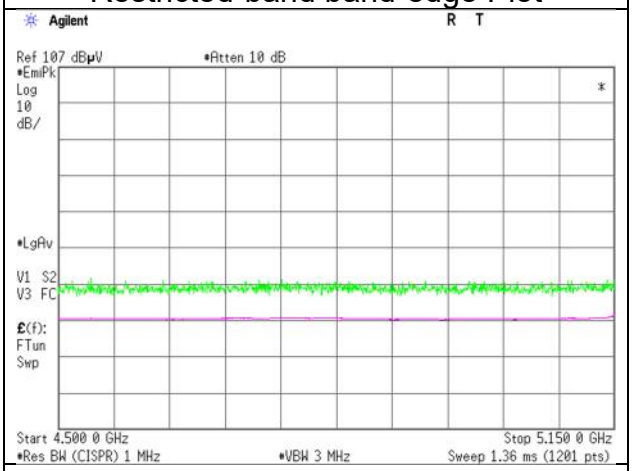
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5190 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

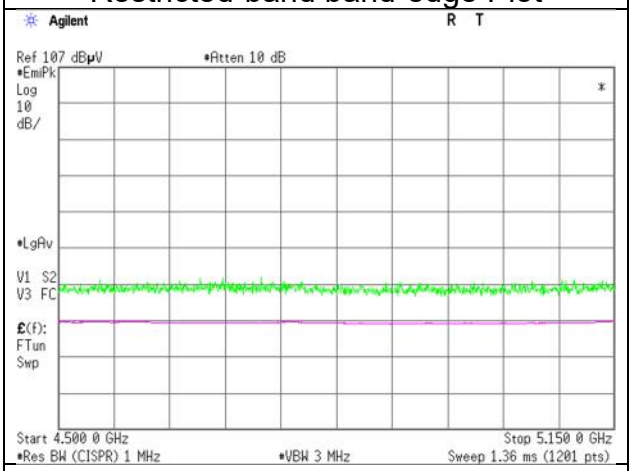
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5310 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.69	31.98	17.30	43.30	2.49	58.16	73.9	15.7	177	122	-
Hori.	5350.000	AV	36.49	31.98	17.30	43.30	2.49	44.96	53.9	8.9	177	122	VBW:10 Hz
Vert.	5350.000	PK	49.18	31.98	17.30	43.30	2.49	57.65	73.9	16.2	241	139	-
Vert.	5350.000	AV	36.96	31.98	17.30	43.30	2.49	45.43	53.9	**8.4**	241	139	VBW:10 Hz

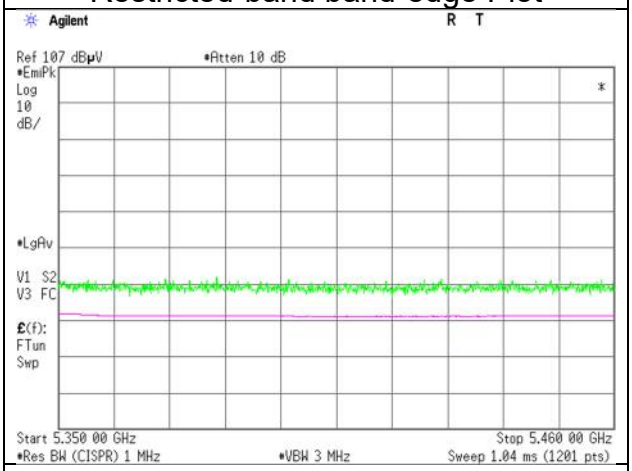
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5310 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

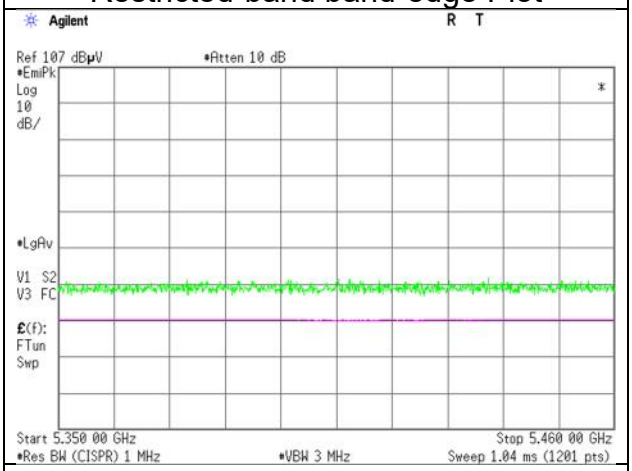
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5510 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.66	32.24	17.38	43.42	2.49	58.35	73.9	15.5	168	107	-
Hori.	5460.000	AV	36.18	32.24	17.38	43.42	2.49	44.87	53.9	9.0	168	107	VBW:10 Hz
Vert.	5460.000	PK	49.55	32.24	17.38	43.42	2.49	58.24	73.9	15.6	194	237	-
Vert.	5460.000	AV	37.27	32.24	17.38	43.42	2.49	45.96	53.9	**7.9**	194	237	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.90	32.25	17.39	43.44	2.49	58.59	-36.64	-27.0	9.6	168	107	-
Vert.	5470.000	PK	49.34	32.25	17.39	43.44	2.49	58.03	-37.20	-27.0	10.2	194	237	-

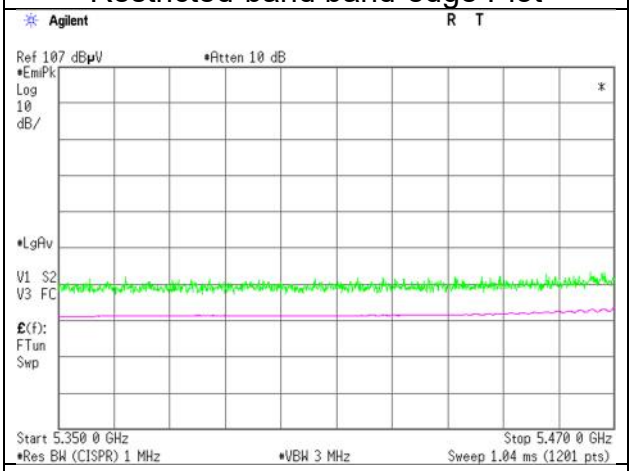
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5510 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

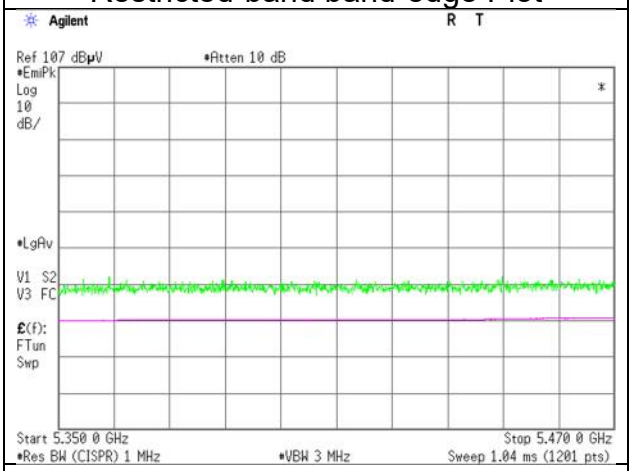
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5670 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.43	32.63	17.53	43.42	2.49	58.66	-36.57	-27.0	**9.5**	177	116	-
Vert.	5725.000	PK	49.10	32.63	17.53	43.42	2.49	58.33	-36.90	-27.0	9.9	169	249	-

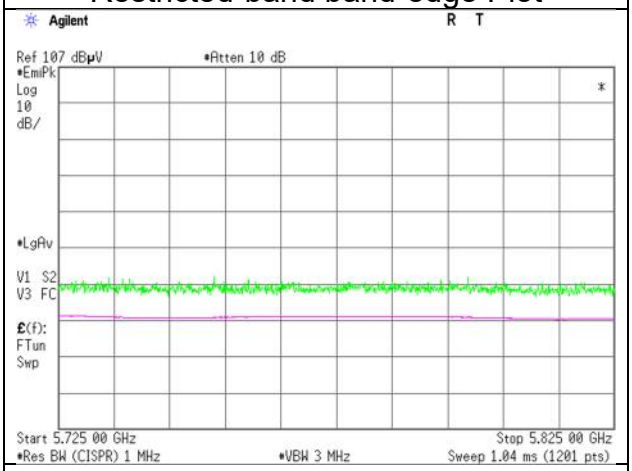
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5670 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

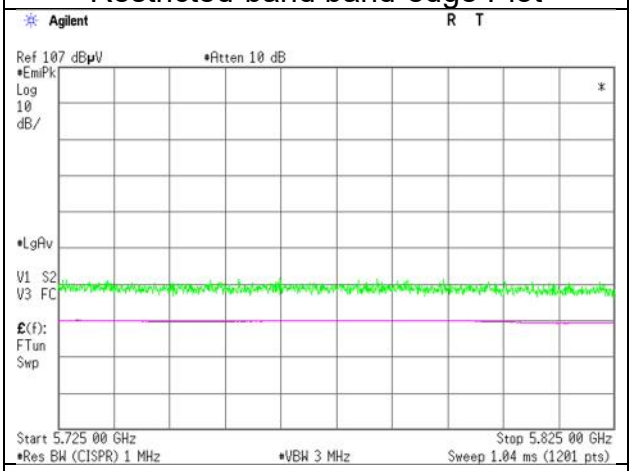
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5755 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.98	32.44	17.50	43.44	2.49	57.97	-37.26	-27.0	10.2	174	119	-
Hori.	5700.000	PK	49.63	32.56	17.52	43.43	2.49	58.77	-36.46	10.0	46.4	174	119	-
Hori.	5720.000	PK	51.27	32.61	17.53	43.42	2.49	60.48	-34.75	15.6	50.3	174	119	-
Hori.	5725.000	PK	51.46	32.63	17.53	43.42	2.49	60.69	-34.54	27.0	61.5	174	119	-
Vert.	5650.000	PK	49.21	32.44	17.50	43.44	2.49	58.20	-37.03	-27.0	**10.0**	189	248	-
Vert.	5700.000	PK	49.30	32.56	17.52	43.43	2.49	58.44	-36.79	10.0	46.7	189	248	-
Vert.	5720.000	PK	49.70	32.61	17.53	43.42	2.49	58.91	-36.32	15.6	51.9	189	248	-
Vert.	5725.000	PK	50.79	32.63	17.53	43.42	2.49	60.02	-35.21	27.0	62.2	189	248	-

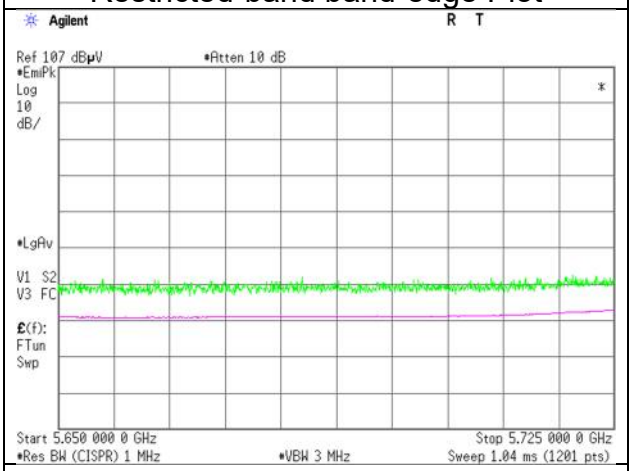
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5755 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

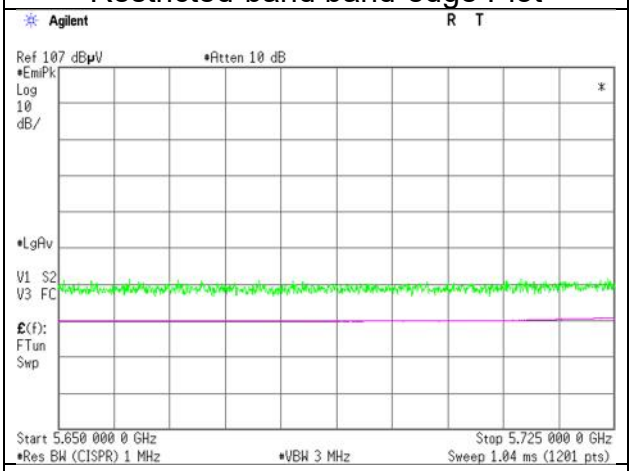
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11n-40, 5795 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.41	32.94	17.61	43.39	2.49	58.06	-37.17	27.0	64.1	170	120	-
Hori.	5855.000	PK	49.02	32.95	17.61	43.39	2.49	58.68	-36.55	15.6	52.1	170	120	-
Hori.	5875.000	PK	49.26	32.98	17.64	43.39	2.49	58.98	-36.25	10.0	46.2	170	120	-
Hori.	5925.000	PK	49.69	33.06	17.66	43.38	2.49	59.52	-35.71	-27.0	8.7	170	120	-
Vert.	5850.000	PK	49.32	32.94	17.61	43.39	2.49	58.97	-36.26	27.0	63.2	169	120	-
Vert.	5855.000	PK	49.05	32.95	17.61	43.39	2.49	58.71	-36.52	15.6	52.1	169	120	-
Vert.	5875.000	PK	49.35	32.98	17.64	43.39	2.49	59.07	-36.16	10.0	46.1	169	120	-
Vert.	5925.000	PK	49.90	33.06	17.66	43.38	2.49	59.73	-35.50	-27.0	**8.5**	169	120	-

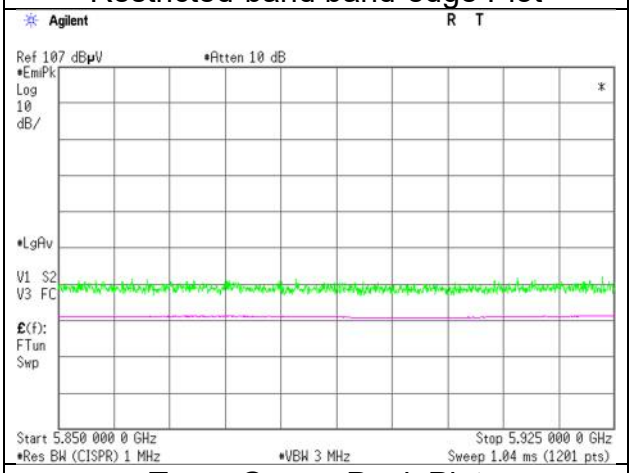
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40, 5795 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

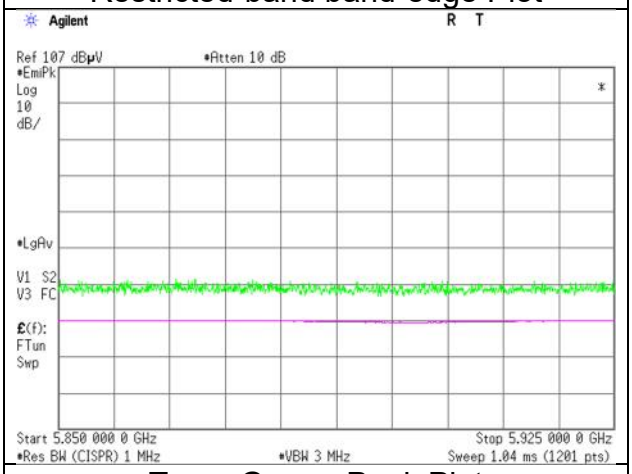
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5190 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.90	32.16	17.18	43.07	2.49	57.66	73.9	16.2	181	122	-
Hori.	5150.000	AV	35.36	32.16	17.18	43.07	2.49	44.12	53.9	9.7	181	122	VBW:10 Hz
Vert.	5150.000	PK	50.74	32.16	17.18	43.07	2.49	59.50	73.9	14.4	238	140	-
Vert.	5150.000	AV	36.73	32.16	17.18	43.07	2.49	45.49	53.9	**8.4**	238	140	VBW:10 Hz

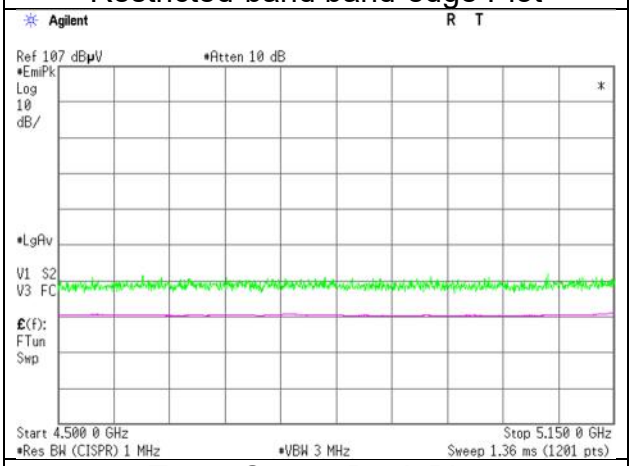
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5190 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

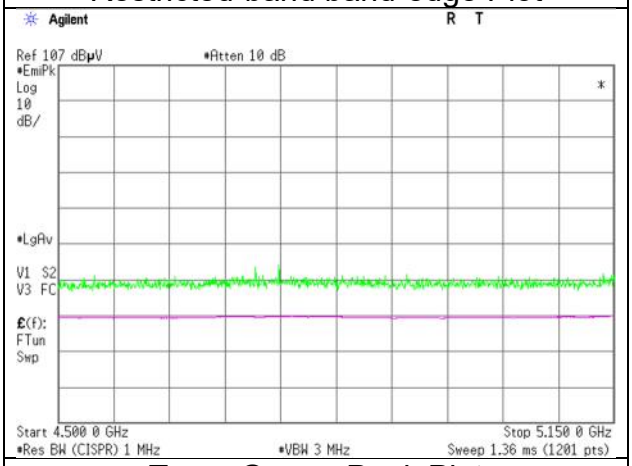
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5310 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.33	31.98	17.30	43.30	2.49	58.80	73.9	15.1	168	121	-
Hori.	5350.000	AV	37.49	31.98	17.30	43.30	2.49	45.96	53.9	**7.9**	168	121	VBW:10 Hz
Vert.	5350.000	PK	49.15	31.98	17.30	43.30	2.49	57.62	73.9	16.2	254	141	-
Vert.	5350.000	AV	37.06	31.98	17.30	43.30	2.49	45.53	53.9	8.3	254	141	VBW:10 Hz

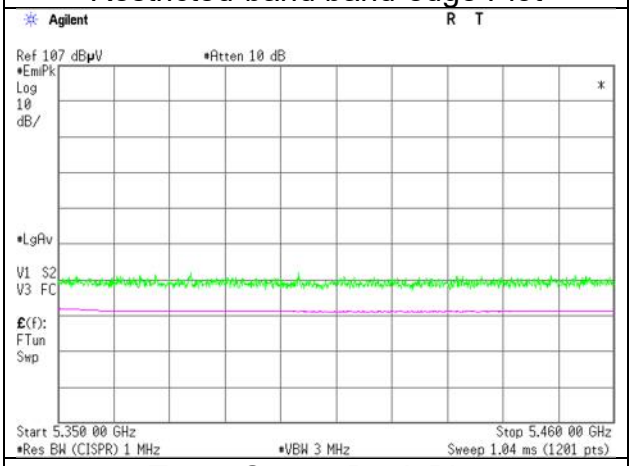
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5310 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

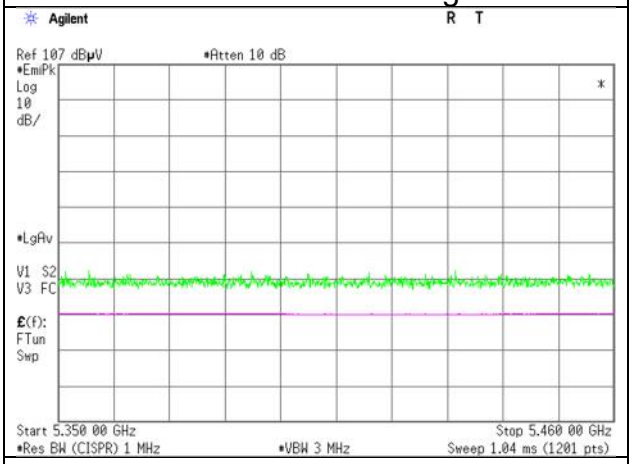
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5510 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.97	32.24	17.38	43.42	2.49	58.66	73.9	15.2	162	117	-
Hori.	5460.000	AV	37.92	32.24	17.38	43.42	2.49	46.61	53.9	**7.2**	162	117	VBW:10 Hz
Vert.	5460.000	PK	50.18	32.24	17.38	43.42	2.49	58.87	73.9	15.0	236	237	-
Vert.	5460.000	AV	37.23	32.24	17.38	43.42	2.49	45.92	53.9	7.9	236	237	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.51	32.25	17.39	43.44	2.49	60.20	-35.03	-27.0	8.0	162	117	-
Vert.	5470.000	PK	49.59	32.25	17.39	43.44	2.49	58.28	-36.95	-27.0	9.9	236	237	-

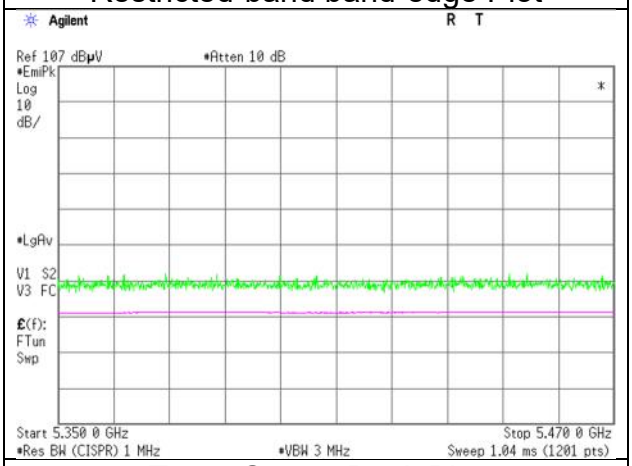
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5510 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

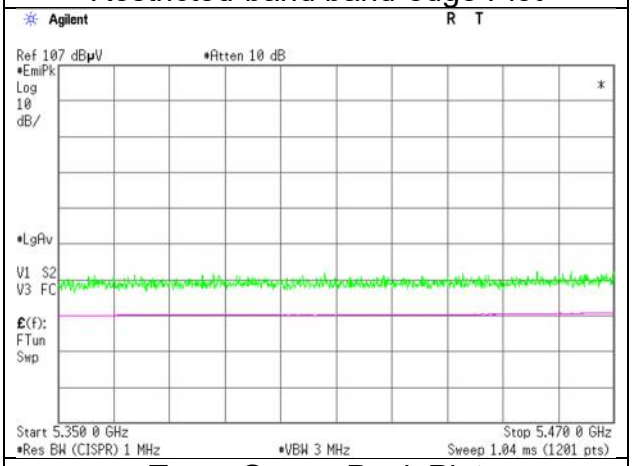
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5670 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.61	32.63	17.53	43.42	2.49	58.84	-36.39	-27.0	**9.3**	166	119	-
Vert.	5725.000	PK	48.95	32.63	17.53	43.42	2.49	58.18	-37.05	-27.0	10.0	184	249	-

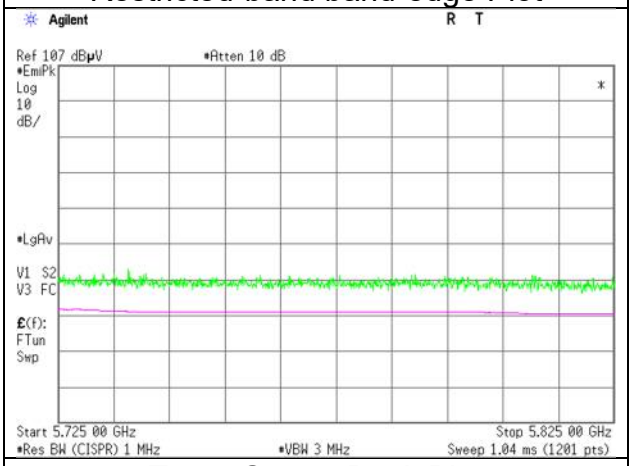
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5670 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

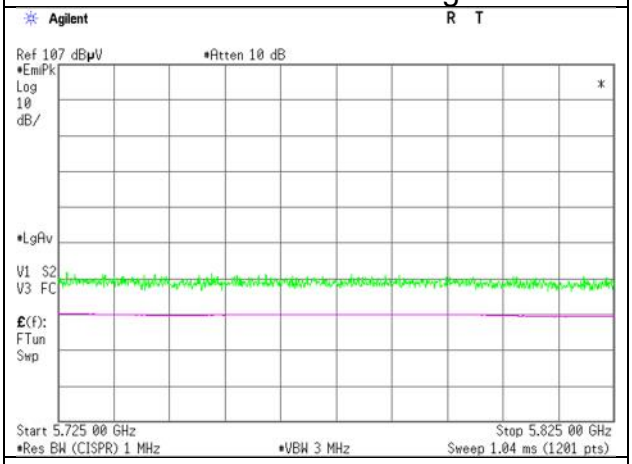
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5755 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.92	32.44	17.50	43.44	2.49	57.91	-37.32	-27.0	**10.3**	174	119	-
Hori.	5700.000	PK	49.37	32.56	17.52	43.43	2.49	58.51	-36.72	10.0	46.7	174	119	-
Hori.	5720.000	PK	50.85	32.61	17.53	43.42	2.49	60.06	-35.17	15.6	50.7	174	119	-
Hori.	5725.000	PK	51.26	32.63	17.53	43.42	2.49	60.49	-34.74	27.0	61.7	174	119	-
Vert.	5650.000	PK	48.94	32.44	17.50	43.44	2.49	57.93	-37.30	-27.0	**10.3**	201	118	-
Vert.	5700.000	PK	48.82	32.56	17.52	43.43	2.49	57.96	-37.27	10.0	47.2	201	118	-
Vert.	5720.000	PK	49.84	32.61	17.53	43.42	2.49	59.05	-36.18	15.6	51.7	201	118	-
Vert.	5725.000	PK	49.49	32.63	17.53	43.42	2.49	58.72	-36.51	27.0	63.5	201	118	-

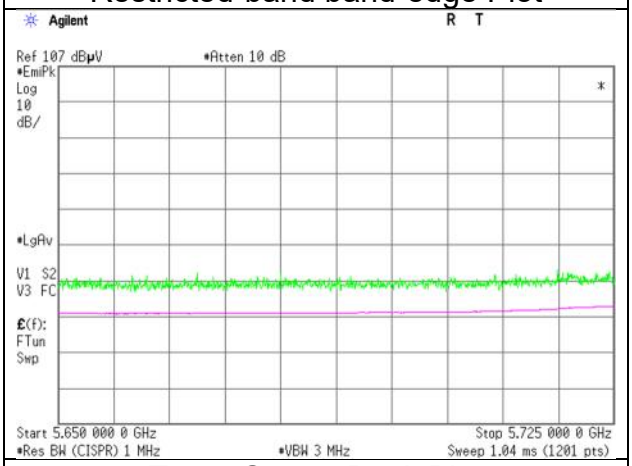
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5755 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

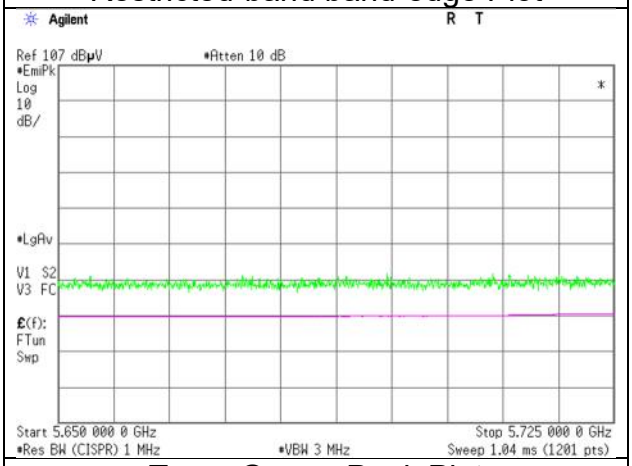
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 6.4 GHz)
Mode	Tx 11ac-40, 5795 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.46	32.94	17.61	43.39	2.49	59.11	-36.12	27.0	63.1	184	119	-
Hori.	5855.000	PK	49.59	32.95	17.61	43.39	2.49	59.25	-35.98	15.6	51.5	184	119	-
Hori.	5875.000	PK	49.80	32.98	17.64	43.39	2.49	59.52	-35.71	10.0	45.7	184	119	-
Hori.	5925.000	PK	50.17	33.06	17.66	43.38	2.49	60.00	-35.23	-27.0	**8.2**	184	119	-
Vert.	5850.000	PK	49.43	32.94	17.61	43.39	2.49	59.08	-36.15	27.0	63.1	199	118	-
Vert.	5855.000	PK	49.48	32.95	17.61	43.39	2.49	59.14	-36.09	15.6	51.6	199	118	-
Vert.	5875.000	PK	49.04	32.98	17.64	43.39	2.49	58.76	-36.47	10.0	46.4	199	118	-
Vert.	5925.000	PK	49.13	33.06	17.66	43.38	2.49	58.96	-36.27	-27.0	9.2	199	118	-

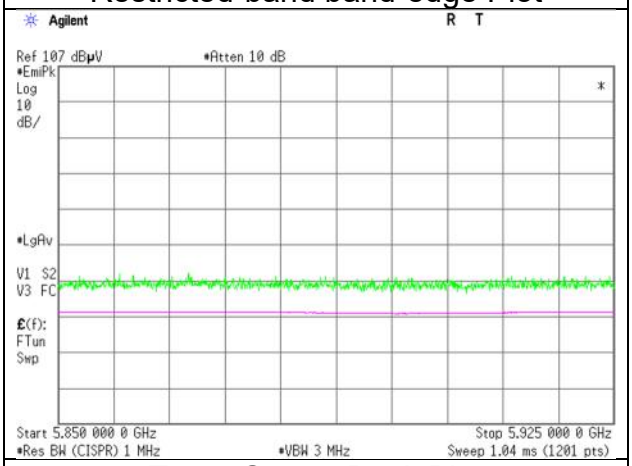
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 13, 2023
Temperature / Humidity	26 deg.C, 30 %RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-40, 5795 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

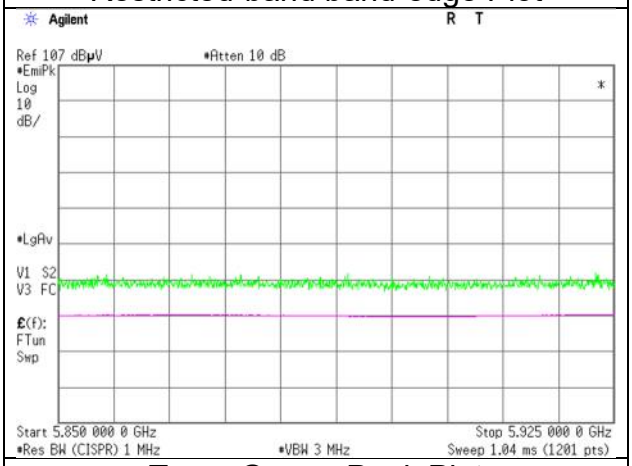
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-40 (OFDM), 5190 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.67	32.16	17.18	43.07	2.49	58.43	73.9	15.4	173	123	-
Hori.	5150.000	AV	35.66	32.16	17.18	43.07	2.49	44.42	53.9	9.4	173	123	VBW:10 Hz
Vert.	5150.000	PK	49.84	32.16	17.18	43.07	2.49	58.60	73.9	15.3	222	140	-
Vert.	5150.000	AV	36.86	32.16	17.18	43.07	2.49	45.62	53.9	**8.2**	222	140	VBW:10 Hz

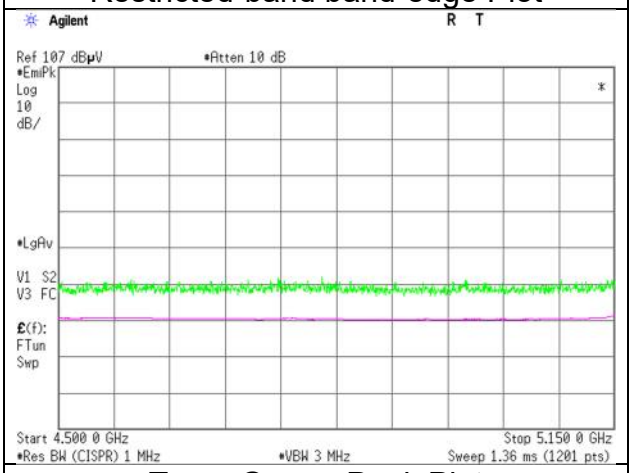
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5190 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

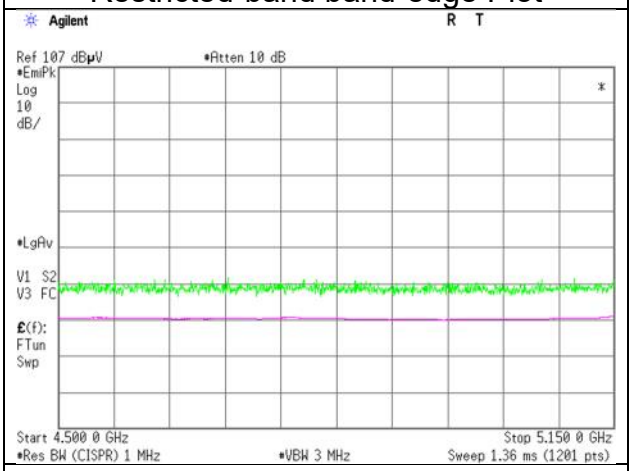
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-40 (OFDM), 5310 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.32	31.98	17.30	43.30	2.49	59.79	73.9	14.1	163	124	-
Hori.	5350.000	AV	36.84	31.98	17.30	43.30	2.49	45.31	53.9	**8.5**	163	124	VBW:10 Hz
Vert.	5350.000	PK	49.50	31.98	17.30	43.30	2.49	57.97	73.9	15.9	253	142	-
Vert.	5350.000	AV	36.58	31.98	17.30	43.30	2.49	45.05	53.9	8.8	253	142	VBW:10 Hz

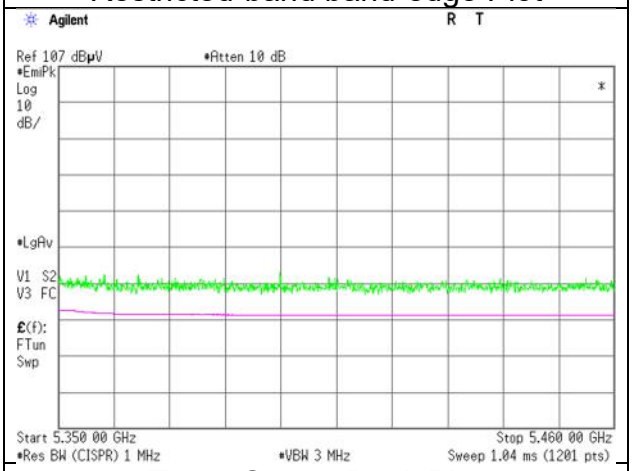
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5310 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

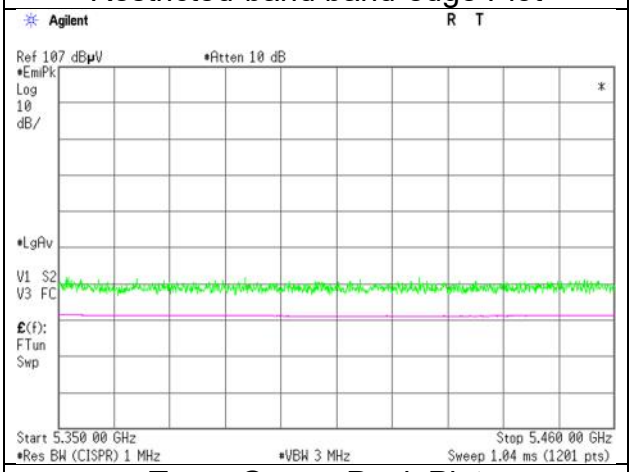
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	January 24, 2024	December 14, 2023	January 23, 2024	January 10, 2024	January 24, 2024
Temperature / Humidity	21 deg.C, 24 %RH	25 deg.C, 36 %RH	23 deg.C, 30 %RH	23 deg.C, 24 %RH	23 deg.C, 31 %RH
Engineer	Yosuke Murakami	Takahiro Suzuki	Kouki Yamada	Takayuki Kobayashi	Takayuki Kobayashi
	(Below 1 GHz)	(1 GHz - 6.4 GHz)	(6.4 GHz - 10 GHz, 18 GHz – 26.5 GHz)	(10 GHz - 18 GHz)	(Above 26.5 GHz)
Mode	Tx 11ax-40 (OFDM), 5510 MHz With 2M-PHY BT LE 2440 MHz				

(below 1 GHz and above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	30.678	QP	22.60	18.77	6.50	32.20	0.00	15.67	40.0	24.3	100	0	-
Hori.	778.200	QP	21.30	20.43	10.56	31.70	0.00	20.59	46.0	25.4	100	0	-
Hori.	868.700	QP	21.10	21.98	10.86	31.25	0.00	22.69	46.0	23.3	100	0	-
Hori.	955.760	QP	20.60	21.97	11.14	30.67	0.00	23.04	46.0	22.9	100	0	-
Hori.	5460.000	PK	51.06	32.24	17.38	43.42	2.49	59.75	73.9	14.1	150	105	-
Hori.	11020.000	PK	48.01	37.59	9.60	42.89	-9.54	42.77	73.9	31.1	151	1	-
Hori.	5460.000	AV	38.16	32.24	17.38	43.42	2.49	46.85	53.9	7.0	150	105	VBW:10 Hz
Hori.	11020.000	AV	35.75	37.59	9.60	42.89	-9.54	30.51	53.9	23.3	151	1	VBW:10 Hz
Vert.	30.277	QP	22.60	18.91	6.48	32.20	0.00	15.79	40.0	24.2	100	0	-
Vert.	856.204	QP	21.00	21.76	10.82	31.32	0.00	22.26	46.0	23.7	100	0	-
Vert.	904.031	QP	20.60	21.98	10.97	31.03	0.00	22.52	46.0	23.4	100	0	-
Vert.	937.270	QP	20.50	22.07	11.08	30.81	0.00	22.84	46.0	23.1	100	0	-
Vert.	5460.000	PK	50.48	32.24	17.38	43.42	2.49	59.17	73.9	14.7	224	249	-
Vert.	11020.000	PK	52.59	37.59	9.60	42.89	-9.54	47.35	73.9	26.5	125	6	-
Vert.	5460.000	AV	37.56	32.24	17.38	43.42	2.49	46.25	53.9	7.6	224	249	VBW:10 Hz
Vert.	11020.000	AV	39.03	37.59	9.60	42.89	-9.54	33.79	53.9	20.1	125	6	VBW:10 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	52.44	32.25	17.39	43.44	2.49	61.13	-34.10	-27.0	7.1	150	105	-
Hori.	13467.820	PK	54.83	39.01	10.77	41.90	-9.54	53.17	-42.06	-27.0	15.0	120	101	-
Hori.	16530.000	PK	46.00	40.11	12.30	40.64	-9.54	48.23	-47.00	-27.0	20.0	100	112	-
Vert.	5470.000	PK	52.84	32.25	17.39	43.44	2.49	61.53	-33.70	-27.0	**6.7**	224	249	-
Vert.	13467.820	PK	58.46	39.01	10.77	41.90	-9.54	56.80	-38.43	-27.0	11.4	234	100	-
Vert.	16530.000	PK	58.23	40.11	12.30	40.64	-9.54	60.46	-34.77	-27.0	7.7	100	232	-

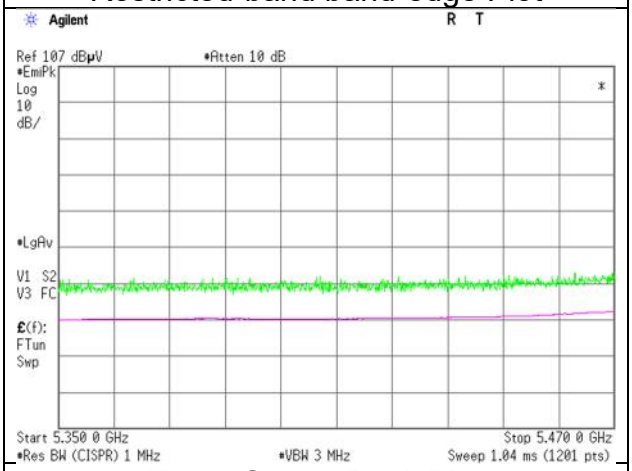
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5510 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

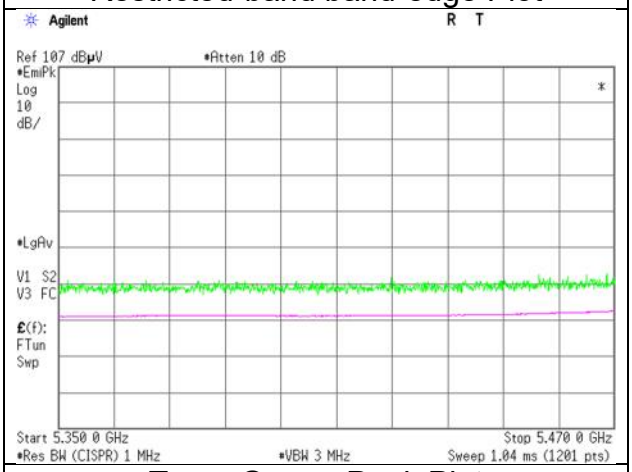
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ax-40 (OFDM), 5670 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.61	32.63	17.53	43.42	2.49	58.84	-36.39	-27.0	**9.3**	166	119	-
Vert.	5725.000	PK	48.95	32.63	17.53	43.42	2.49	58.18	-37.05	-27.0	10.0	184	249	-

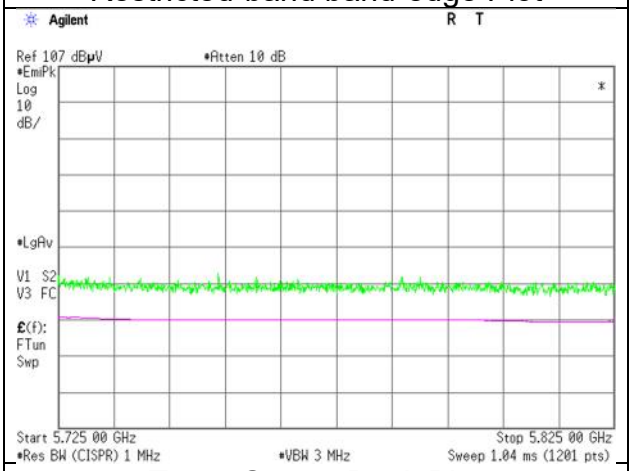
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5670 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

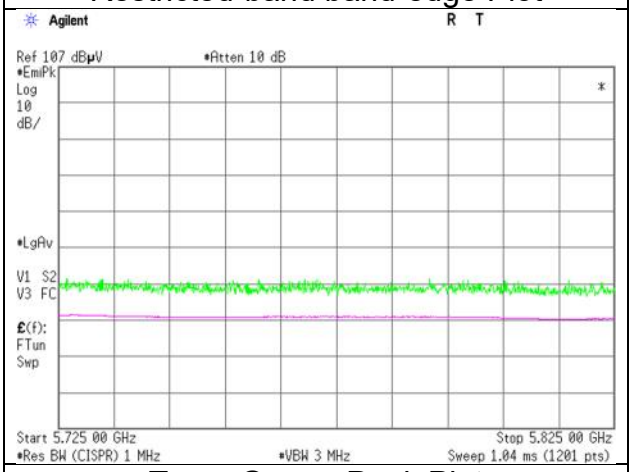
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ax-40 (OFDM), 5755 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.51	32.44	17.50	43.44	2.49	58.50	-36.73	-27.0	**9.7**	183	116	-
Hori.	5700.000	PK	49.72	32.56	17.52	43.43	2.49	58.86	-36.37	10.0	46.3	183	116	-
Hori.	5720.000	PK	51.09	32.61	17.53	43.42	2.49	60.30	-34.93	15.6	50.5	183	116	-
Hori.	5725.000	PK	51.20	32.63	17.53	43.42	2.49	60.43	-34.80	27.0	61.8	183	116	-
Vert.	5650.000	PK	49.31	32.44	17.50	43.44	2.49	58.30	-36.93	-27.0	9.9	149	238	-
Vert.	5700.000	PK	49.64	32.56	17.52	43.43	2.49	58.78	-36.45	10.0	46.4	149	238	-
Vert.	5720.000	PK	50.07	32.61	17.53	43.42	2.49	59.28	-35.95	15.6	51.5	149	238	-
Vert.	5725.000	PK	49.44	32.63	17.53	43.42	2.49	58.67	-36.56	27.0	63.5	149	238	-

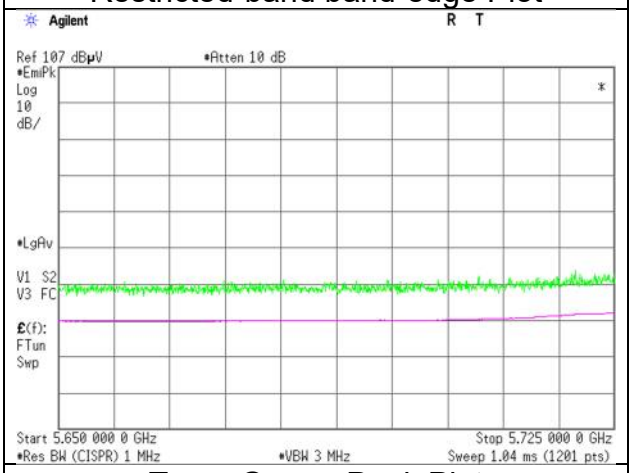
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5755 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

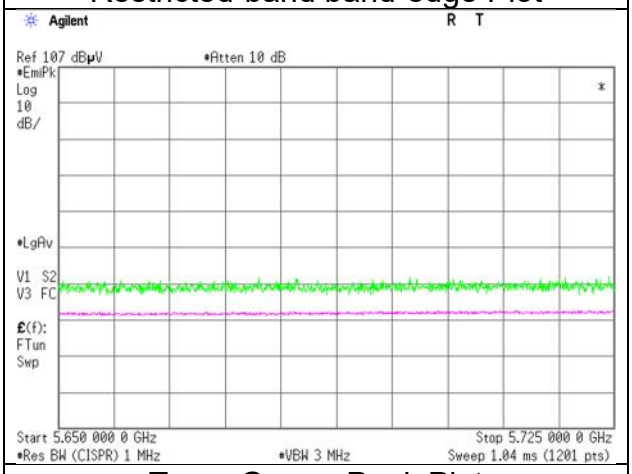
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ax-40 (OFDM), 5795 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.21	32.94	17.61	43.39	2.49	58.86	-36.37	27.0	63.3	149	124	-
Hori.	5855.000	PK	48.88	32.95	17.61	43.39	2.49	58.54	-36.69	15.6	52.2	149	124	-
Hori.	5875.000	PK	48.64	32.98	17.64	43.39	2.49	58.36	-36.87	10.0	46.8	149	124	-
Hori.	5925.000	PK	49.62	33.06	17.66	43.38	2.49	59.45	-35.78	-27.0	**8.7**	149	124	-
Vert.	5850.000	PK	49.39	32.94	17.61	43.39	2.49	59.04	-36.19	27.0	63.1	144	71	-
Vert.	5855.000	PK	48.49	32.95	17.61	43.39	2.49	58.15	-37.08	15.6	52.6	144	71	-
Vert.	5875.000	PK	48.84	32.98	17.64	43.39	2.49	58.56	-36.67	10.0	46.6	144	71	-
Vert.	5925.000	PK	48.90	33.06	17.66	43.38	2.49	58.73	-36.50	-27.0	9.5	144	71	-

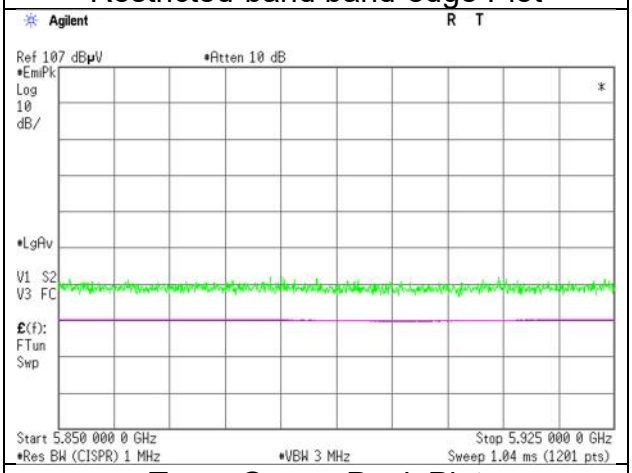
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40 (OFDM), 5795 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

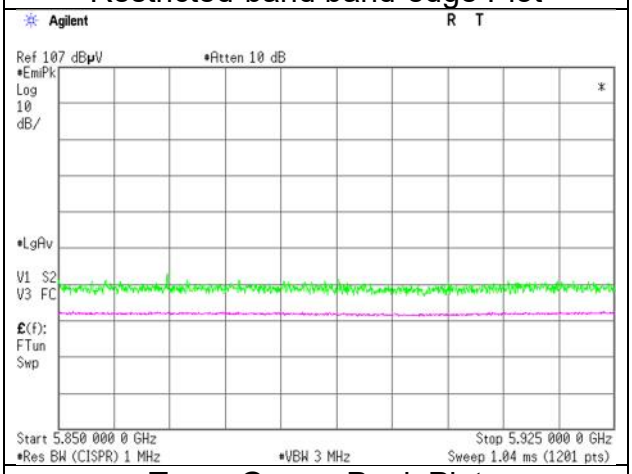
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-80, 5210 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.36	32.16	17.18	43.07	2.49	58.12	73.9	15.7	194	128	-
Hori.	5150.000	AV	38.15	32.16	17.18	43.07	2.49	46.91	53.9	6.9	194	128	VBW:1.8 kHz
Vert.	5150.000	PK	49.40	32.16	17.18	43.07	2.49	58.16	73.9	15.7	235	141	-
Vert.	5150.000	AV	38.52	32.16	17.18	43.07	2.49	47.28	53.9	**6.6**	235	141	VBW:1.8 kHz

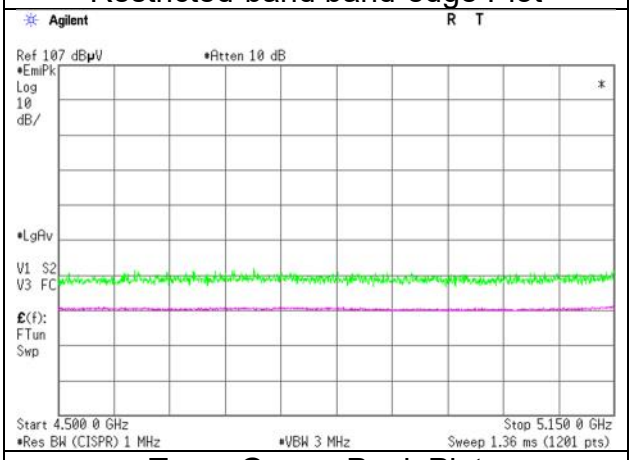
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ac-80, 5210 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

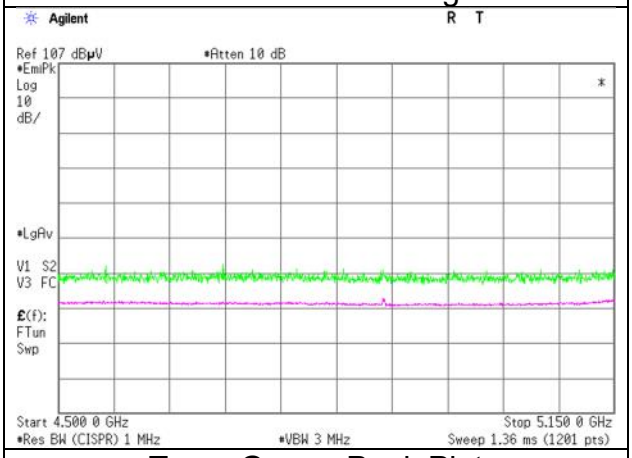
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-80, 5290 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.01	31.98	17.30	43.30	2.49	58.48	73.9	15.4	153	123	-
Hori.	5350.000	AV	38.25	31.98	17.30	43.30	2.49	46.72	53.9	7.1	153	123	VBW:1.8 kHz
Vert.	5350.000	PK	49.48	31.98	17.30	43.30	2.49	57.95	73.9	15.9	274	139	-
Vert.	5350.000	AV	38.47	31.98	17.30	43.30	2.49	46.94	53.9	**6.9**	274	139	VBW:1.8 kHz

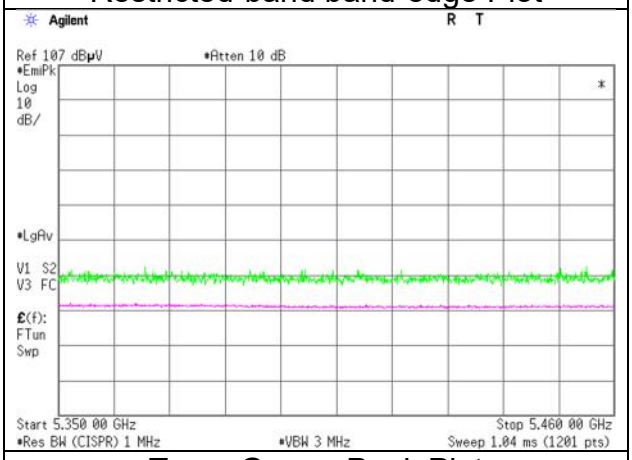
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ac-80, 5290 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

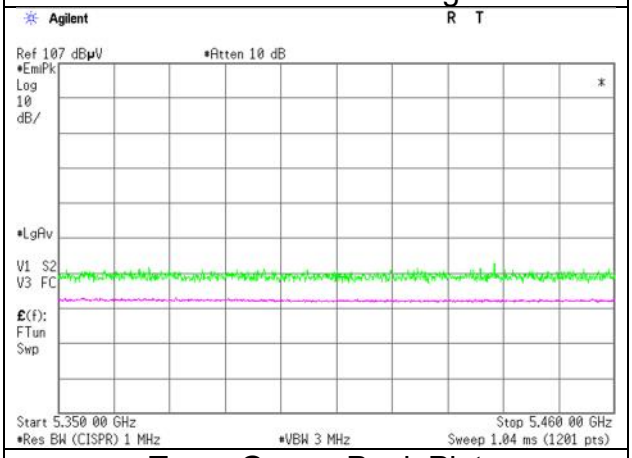
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ac-80, 5530 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.68	32.24	17.38	43.42	2.49	59.37	73.9	14.5	206	117	-
Hori.	5460.000	AV	39.48	32.24	17.38	43.42	2.49	48.17	53.9	**5.7**	206	117	VBW:1.8 kHz
Vert.	5460.000	PK	49.60	32.24	17.38	43.42	2.49	58.29	73.9	15.6	221	252	-
Vert.	5460.000	AV	39.51	32.24	17.38	43.42	2.49	48.20	53.9	**5.7**	221	252	VBW:1.8 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.00	32.25	17.39	43.44	2.49	59.69	-35.54	-27.0	8.5	206	117	-
Vert.	5470.000	PK	50.02	32.25	17.39	43.44	2.49	58.71	-36.52	-27.0	9.5	221	252	-

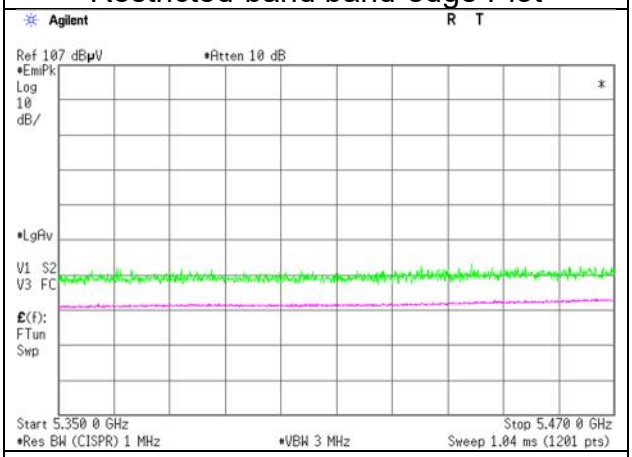
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ac-80, 5530 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

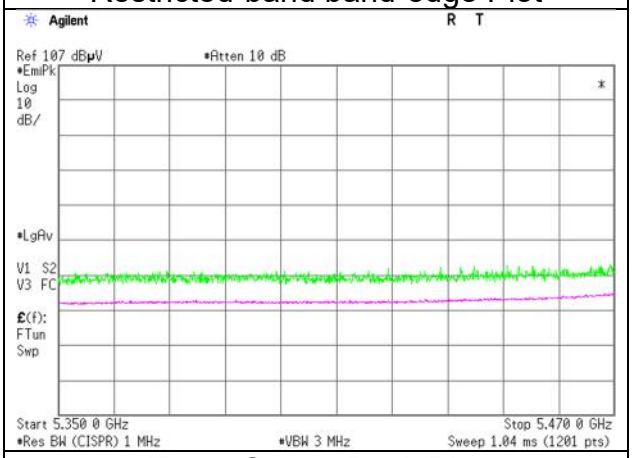
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ac-80, 5610 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.46	32.63	17.53	43.42	2.49	58.69	-36.54	-27.0	**9.5**	184	110	-
Vert.	5725.000	PK	49.44	32.63	17.53	43.42	2.49	58.67	-36.56	-27.0	**9.5**	228	245	-

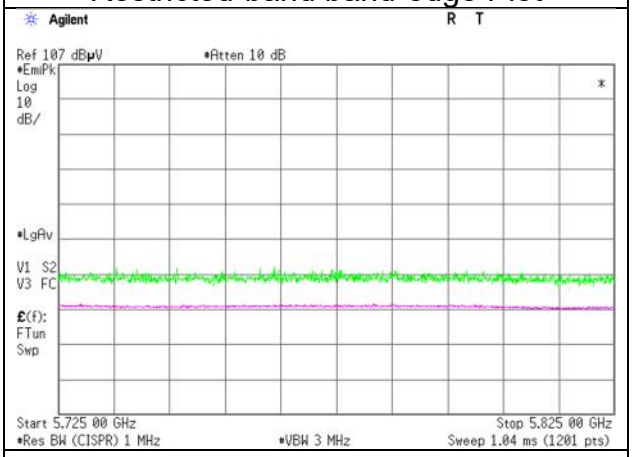
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ac-80, 5610 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

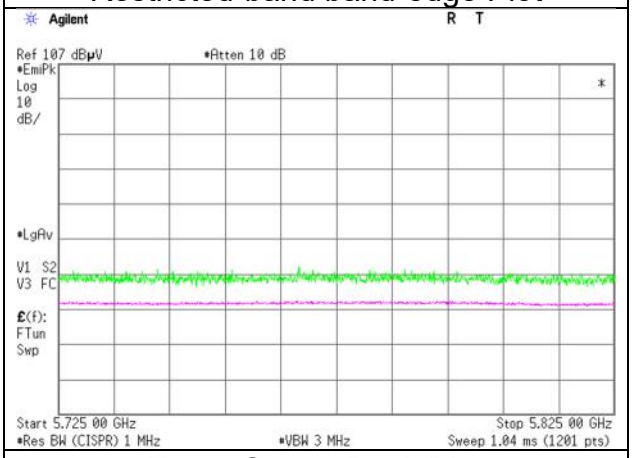
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ac-80, 5775 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

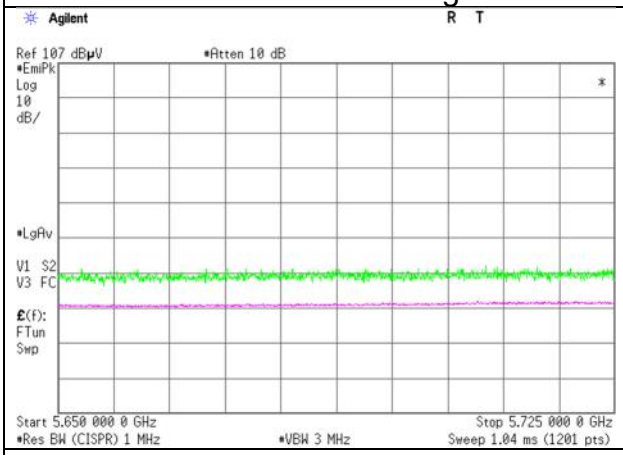
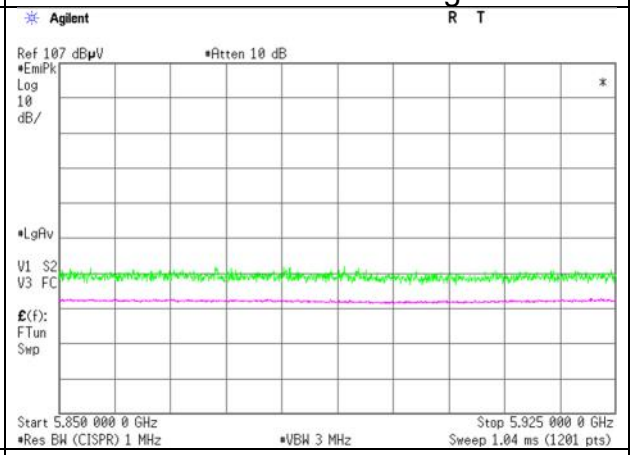
(* PK: Peak, AV: Average, QP: Quasi-Peak)

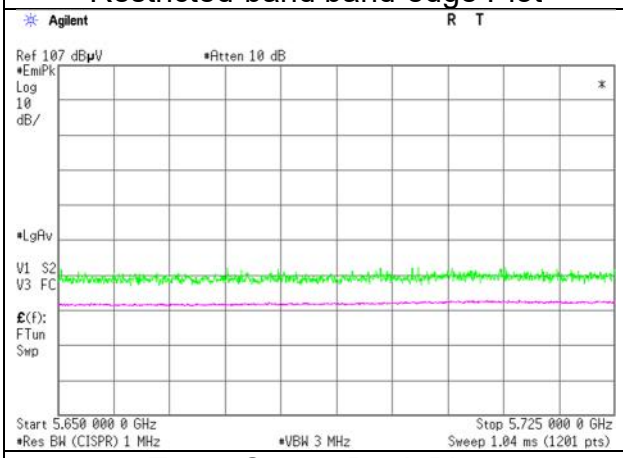
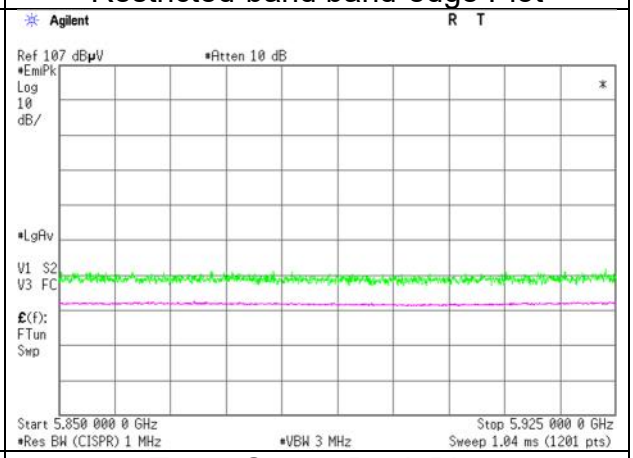
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.45	32.44	17.50	43.44	2.49	58.44	-36.79	-27.0	9.7	198	117	-
Hori.	5700.000	PK	49.73	32.56	17.52	43.43	2.49	58.87	-36.36	10.0	46.3	198	117	-
Hori.	5720.000	PK	49.77	32.61	17.53	43.42	2.49	58.98	-36.25	15.6	51.8	198	117	-
Hori.	5725.000	PK	50.21	32.63	17.53	43.42	2.49	59.44	-35.79	27.0	62.7	198	117	-
Hori.	5850.000	PK	49.97	32.94	17.61	43.39	2.49	59.62	-35.61	27.0	62.6	198	117	-
Hori.	5855.000	PK	49.35	32.95	17.61	43.39	2.49	59.01	-36.22	15.6	51.8	198	117	-
Hori.	5875.000	PK	49.28	32.98	17.64	43.39	2.49	59.00	-36.23	10.0	46.2	198	117	-
Hori.	5925.000	PK	49.36	33.06	17.66	43.38	2.49	59.19	-36.04	-27.0	**9.0**	198	117	-
Vert.	5650.000	PK	48.34	32.44	17.50	43.44	2.49	57.33	-37.90	-27.0	10.9	228	108	-
Vert.	5700.000	PK	49.60	32.56	17.52	43.43	2.49	58.74	-36.49	10.0	46.4	228	108	-
Vert.	5720.000	PK	48.78	32.61	17.53	43.42	2.49	57.99	-37.24	15.6	52.8	228	108	-
Vert.	5725.000	PK	48.92	32.63	17.53	43.42	2.49	58.15	-37.08	27.0	64.0	228	108	-
Vert.	5850.000	PK	49.75	32.94	17.61	43.39	2.49	59.40	-35.83	27.0	62.8	228	108	-
Vert.	5855.000	PK	48.79	32.95	17.61	43.39	2.49	58.45	-36.78	15.6	52.3	228	108	-
Vert.	5875.000	PK	49.51	32.98	17.64	43.39	2.49	59.23	-36.00	10.0	46.0	228	108	-
Vert.	5925.000	PK	48.74	33.06	17.66	43.38	2.49	58.57	-36.66	-27.0	9.6	228	108	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 15, 2023
Temperature / Humidity	22 deg.C, 30 %RH
Engineer	Yasumasa Owaki
Mode	Tx 11ac-80, 5775 MHz With 2M-PHY BT LE 2440 MHz

Horizontal	
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-80 (OFDM), 5210 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.22	32.16	17.18	43.07	2.49	58.98	73.9	14.9	179	122	-
Hori.	5150.000	AV	38.21	32.16	17.18	43.07	2.49	46.97	53.9	**6.9**	179	122	VBW:1.5 kHz
Vert.	5150.000	PK	48.65	32.16	17.18	43.07	2.49	57.41	73.9	16.4	233	142	-
Vert.	5150.000	AV	38.20	32.16	17.18	43.07	2.49	46.96	53.9	**6.9**	233	142	VBW:1.5 kHz

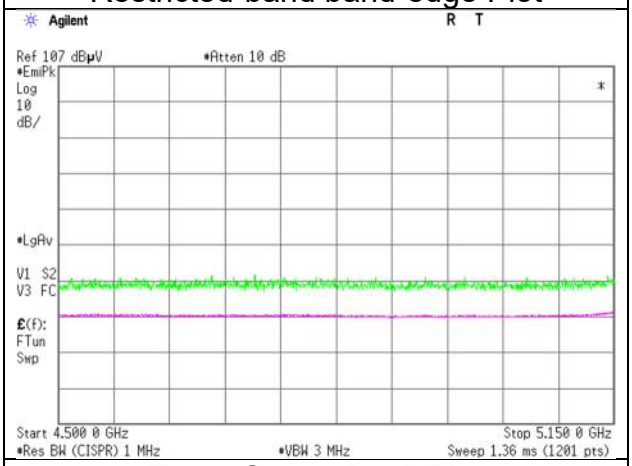
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80 (OFDM), 5210 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

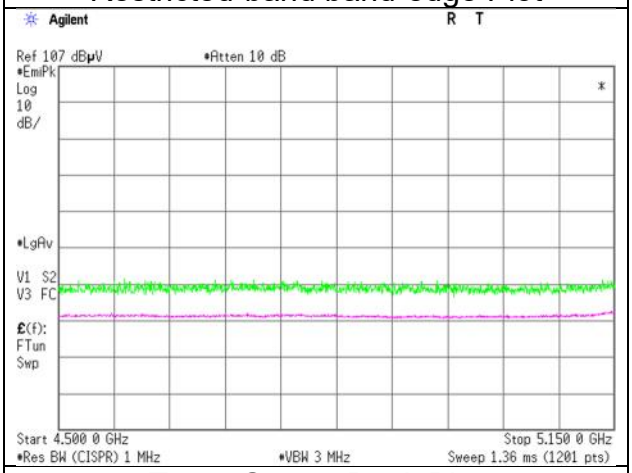
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-80 (OFDM), 5290 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.07	31.98	17.30	43.30	2.49	58.54	73.9	15.3	156	122	-
Hori.	5350.000	AV	38.51	31.98	17.30	43.30	2.49	46.98	53.9	**6.9**	156	122	VBW:1.5 kHz
Vert.	5350.000	PK	49.05	31.98	17.30	43.30	2.49	57.52	73.9	16.3	240	138	-
Vert.	5350.000	AV	38.23	31.98	17.30	43.30	2.49	46.70	53.9	7.2	240	138	VBW:1.5 kHz

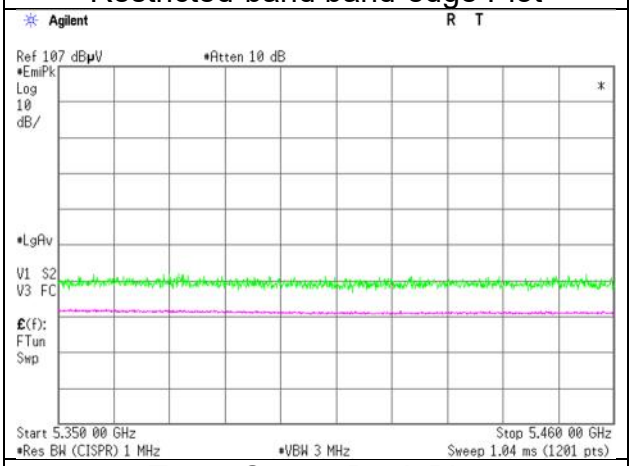
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80 (OFDM), 5290 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

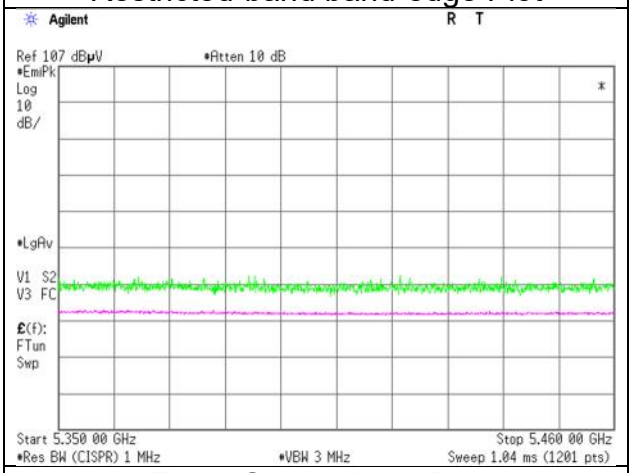
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
	(1 GHz - 6.4 GHz)
Mode	Tx 11ax-80 (OFDM), 5530 MHz With 2M-PHY BT LE 2440 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	52.67	32.24	17.38	43.42	2.49	61.36	73.9	12.5	153	109	-
Hori.	5460.000	AV	39.57	32.24	17.38	43.42	2.49	48.26	53.9	5.6	153	109	VBW:1.5 kHz
Vert.	5460.000	PK	50.08	32.24	17.38	43.42	2.49	58.77	73.9	15.1	221	250	-
Vert.	5460.000	AV	39.28	32.24	17.38	43.42	2.49	47.97	53.9	5.9	221	250	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	54.41	32.25	17.39	43.44	2.49	63.10	-32.13	-27.0	**5.1**	153	109	-
Vert.	5470.000	PK	53.34	32.25	17.39	43.44	2.49	62.03	-33.20	-27.0	6.2	221	250	-

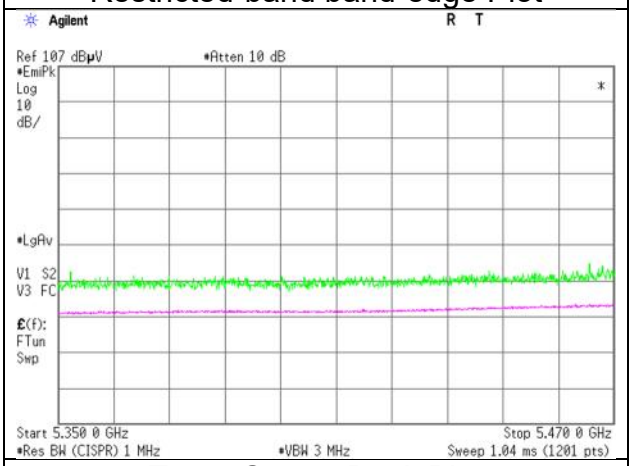
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80 (OFDM), 5530 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

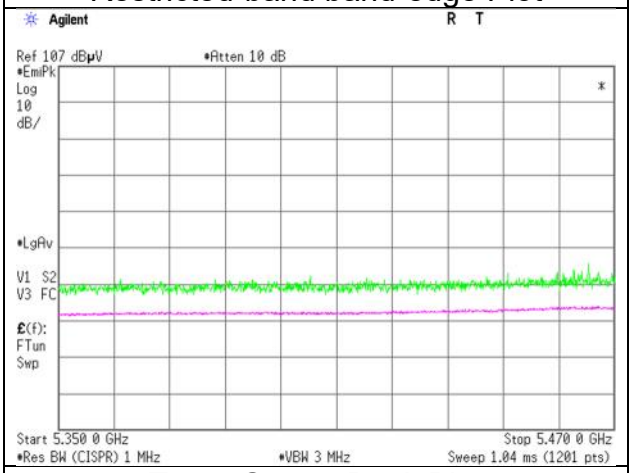
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-80 (OFDM), 5610 MHz With 2M-PHY BT LE 2440 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.84	32.63	17.53	43.42	2.49	59.07	-36.16	-27.0	**9.1**	187	112	-
Vert.	5725.000	PK	48.64	32.63	17.53	43.42	2.49	57.87	-37.36	-27.0	10.3	218	248	-

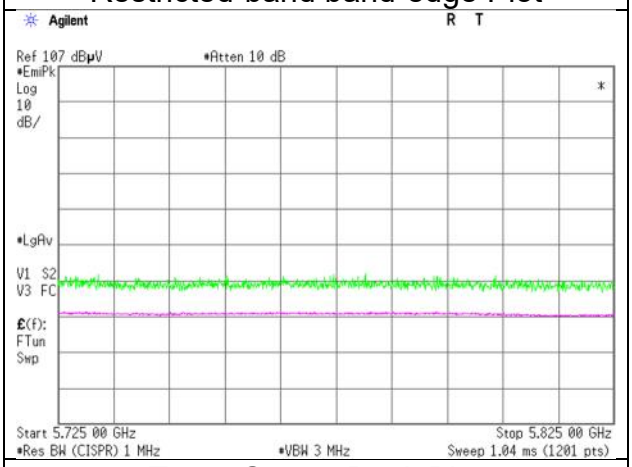
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	December 14, 2023
Temperature / Humidity	25 deg.C, 36 %RH
Engineer	Takahiro Suzuki (1 GHz - 6.4 GHz)
Mode	Tx 11ax-80 (OFDM), 5610 MHz With 2M-PHY BT LE 2440 MHz

Horizontal

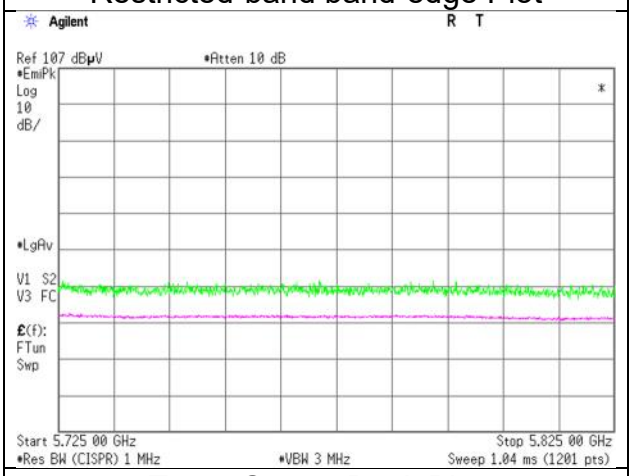
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.