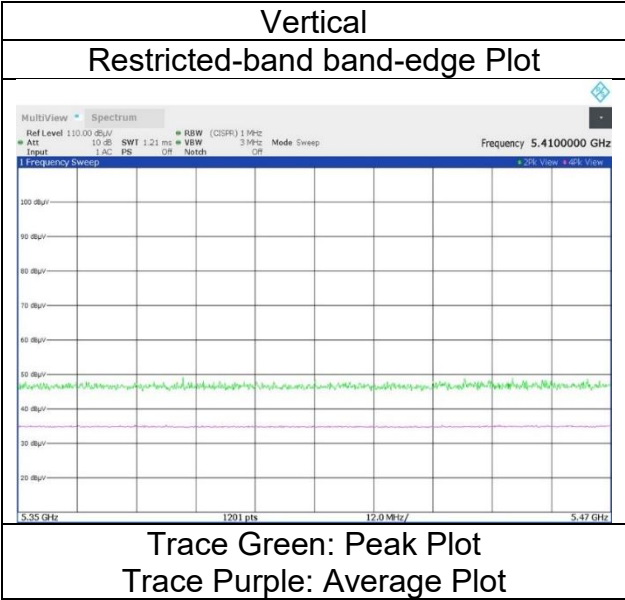
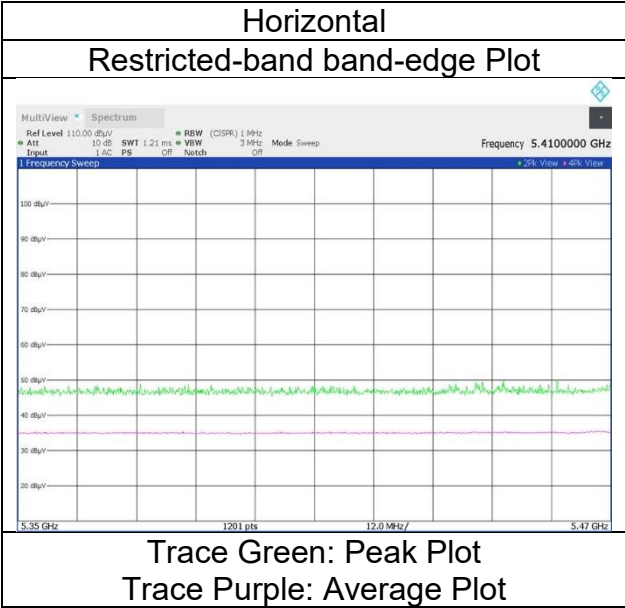


Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 484-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 65



* 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 WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 484-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.72	32.01	-25.06	-	2.10	56.77	-38.46	-27.0	11.4	109	39	-
Vert.	5725.000	PK	47.86	32.01	-25.06	-	2.10	56.91	-38.32	-27.0	11.3	150	354	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

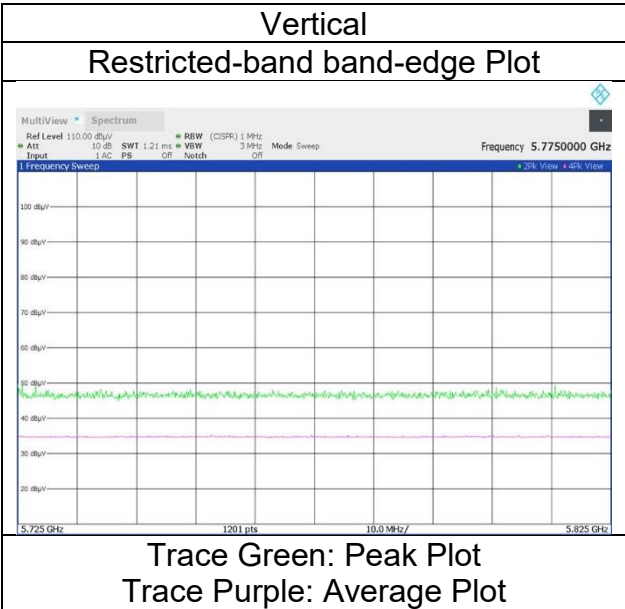
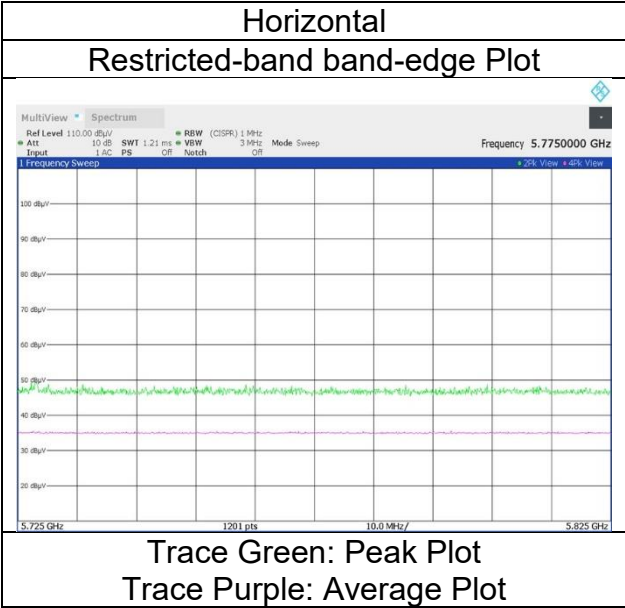
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 484-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 66



* 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 WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 996-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	48.84	31.86	-25.53	-	2.10	57.27	73.9	16.6	116	38	-
Hori.	5150.000	AV	36.14	31.86	-25.53	-	2.10	44.57	53.9	9.3	116	38	VBW: 2 kHz
Vert.	5125.370	PK	50.94	31.92	-25.56	-	2.10	59.40	73.9	14.5	162	333	-
Vert.	5150.000	PK	49.56	31.86	-25.53	-	2.10	57.99	73.9	15.9	162	333	-
Vert.	5125.370	AV	35.99	31.92	-25.56	-	2.10	44.45	53.9	9.4	162	333	VBW: 2 kHz
Vert.	5150.000	AV	35.83	31.86	-25.53	-	2.10	44.26	53.9	9.6	162	333	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

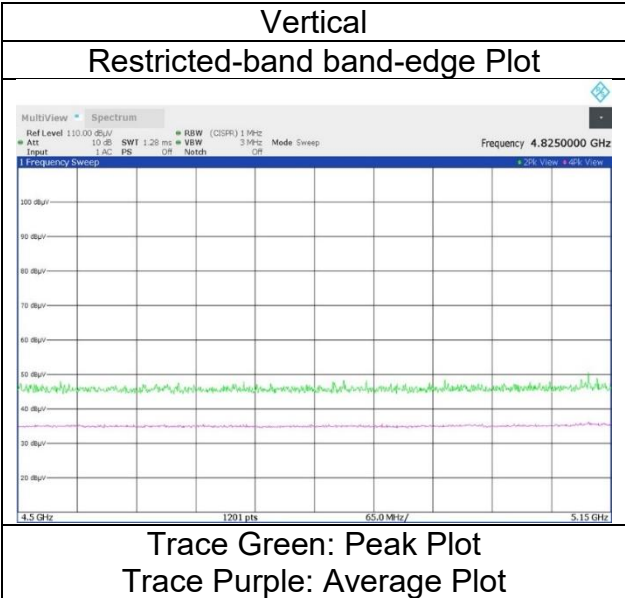
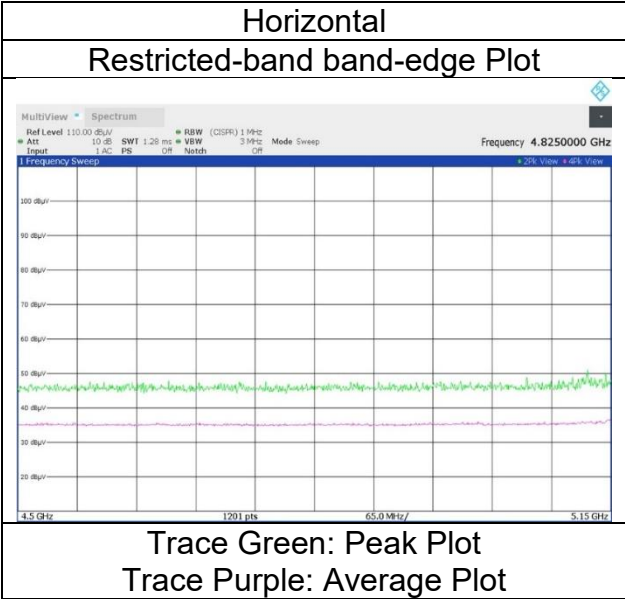
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 996-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 67



* 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 WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 996-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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	47.56	31.58	-25.29	-	2.10	55.95	73.9	17.9	122	40	-
Hori.	5399.321	PK	52.15	31.70	-25.24	-	2.10	60.71	73.9	13.1	122	40	-
Hori.	5350.000	AV	35.38	31.58	-25.29	-	2.10	43.77	53.9	10.1	122	40	VBW: 2 kHz
Hori.	5399.321	AV	35.78	31.70	-25.24	-	2.10	44.34	53.9	9.5	122	40	VBW: 2 kHz
Vert.	5350.000	PK	50.70	31.58	-25.29	-	2.10	59.09	73.9	14.8	210	347	-
Vert.	5385.216	PK	50.64	31.67	-25.26	-	2.10	59.15	73.9	14.7	210	347	-
Vert.	5385.849	PK	52.37	31.67	-25.25	-	2.10	60.89	73.9	13.0	210	347	-
Vert.	5395.192	PK	52.61	31.69	-25.24	-	2.10	61.16	73.9	12.7	210	347	-
Vert.	5350.000	AV	36.38	31.58	-25.29	-	2.10	44.77	53.9	9.1	210	347	VBW: 2 kHz
Vert.	5385.216	AV	35.71	31.67	-25.26	-	2.10	44.22	53.9	9.6	210	347	VBW: 2 kHz
Vert.	5385.849	AV	35.54	31.67	-25.25	-	2.10	44.06	53.9	9.8	210	347	VBW: 2 kHz
Vert.	5395.192	AV	35.85	31.69	-25.24	-	2.10	44.40	53.9	9.5	210	347	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

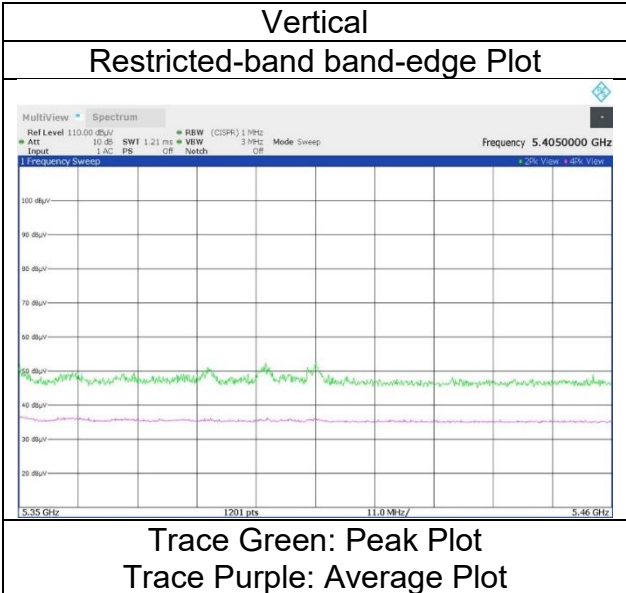
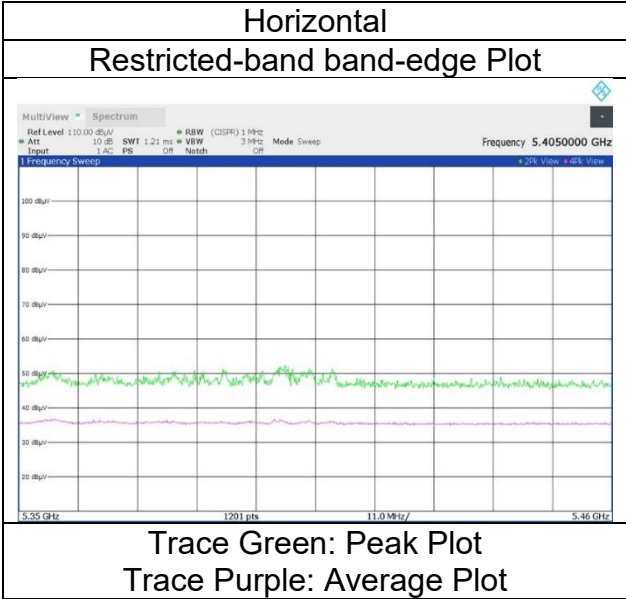
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 996-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 67



* 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	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
	(1 GHz to 6.4 GHz)
Mode	TX 11ax-160(OFDMA) 996-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	47.34	31.78	-25.16	-	2.10	56.06	73.9	17.8	148	39	-
Hori.	5460.000	AV	35.27	31.78	-25.16	-	2.10	43.99	53.9	9.9	148	39	VBW: 2 kHz
Vert.	5460.000	PK	46.84	31.78	-25.16	-	2.10	55.56	73.9	18.3	160	332	-
Vert.	5460.000	AV	35.26	31.78	-25.16	-	2.10	43.98	53.9	9.9	160	332	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.42	31.79	-25.15	-	2.10	56.16	-39.07	-27.0	12.0	148	39	-
Vert.	5470.000	PK	47.31	31.79	-25.15	-	2.10	56.05	-39.18	-27.0	12.1	160	332	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

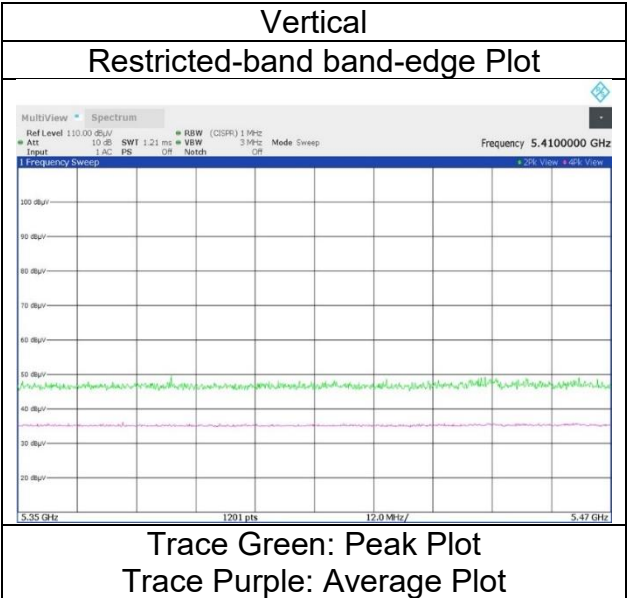
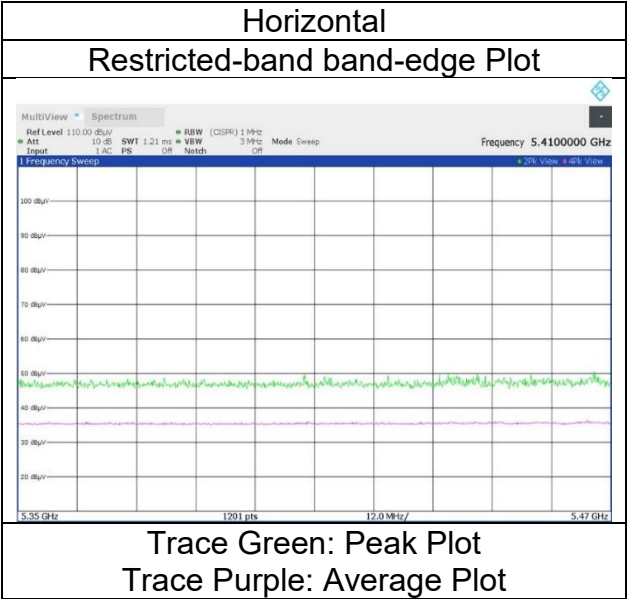
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 996-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 67



* 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 WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 996-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.80	32.01	-25.06	-	2.10	56.85	-38.38	-27.0	11.3	115	40	-
Vert.	5725.000	PK	48.24	32.01	-25.06	-	2.10	57.29	-37.94	-27.0	10.9	147	335	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

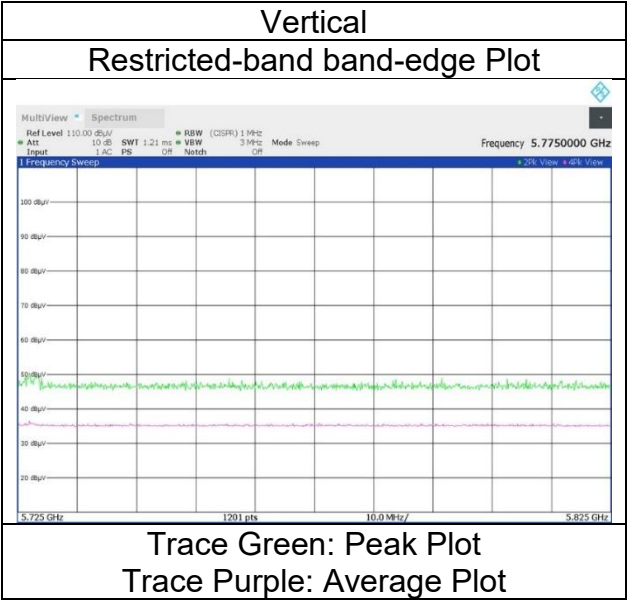
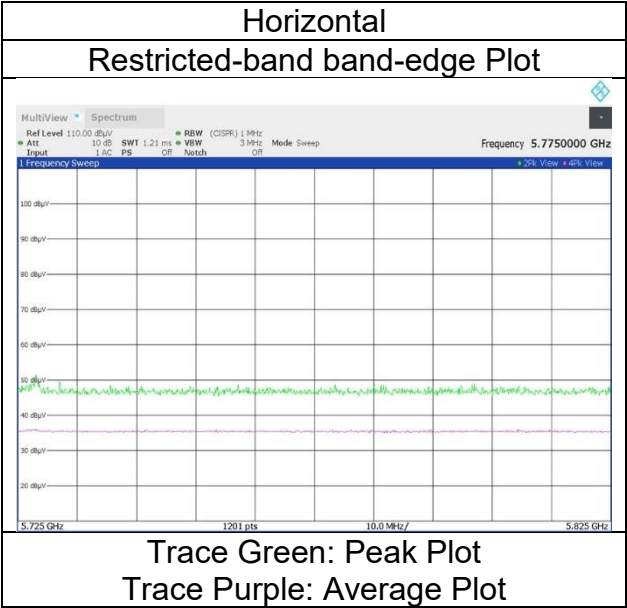
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 996-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 67



* 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 WAC1
Date April 23, 2024
Temperature / Humidity 20 deg. C / 61 % RH
Engineer Takayuki Kobayashi
 (1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 2*996-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 68 (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	50.75	31.86	-25.53	-	2.10	59.18	73.9	14.7	155	56	-
Hori.	5350.000	PK	51.30	31.58	-25.29	-	2.10	59.69	73.9	14.2	155	56	-
Hori.	5371.112	PK	52.09	31.62	-25.27	-	2.10	60.54	73.9	13.3	155	56	-
Hori.	5150.000	AV	37.07	31.86	-25.53	-	2.10	45.50	53.9	8.4	155	56	VBW: 2 kHz
Hori.	5350.000	AV	37.81	31.58	-25.29	-	2.10	46.20	53.9	7.7	155	56	VBW: 2 kHz
Hori.	5371.112	AV	38.07	31.62	-25.27	-	2.10	46.52	53.9	7.3	155	56	VBW: 2 kHz
Vert.	5150.000	PK	47.25	31.86	-25.53	-	2.10	55.68	73.9	18.2	157	327	-
Vert.	5350.000	PK	47.04	31.58	-25.29	-	2.10	55.43	73.9	18.4	157	327	-
Vert.	5364.416	PK	53.39	31.61	-25.28	-	2.10	61.82	73.9	12.0	157	327	-
Vert.	5364.700	PK	52.13	31.61	-25.27	-	2.10	60.57	73.9	13.3	157	327	-
Vert.	5382.725	PK	51.40	31.66	-25.26	-	2.10	59.90	73.9	14.0	157	327	-
Vert.	5393.441	PK	51.41	31.69	-25.24	-	2.10	59.96	73.9	13.9	157	327	-
Vert.	5150.000	AV	35.90	31.86	-25.53	-	2.10	44.33	53.9	9.5	157	327	VBW: 2 kHz
Vert.	5350.000	AV	35.12	31.58	-25.29	-	2.10	43.51	53.9	10.3	157	327	VBW: 2 kHz
Vert.	5364.416	AV	37.65	31.61	-25.28	-	2.10	46.08	53.9	7.8	157	327	VBW: 2 kHz
Vert.	5364.700	AV	37.89	31.61	-25.27	-	2.10	46.33	53.9	7.5	157	327	VBW: 2 kHz
Vert.	5382.725	AV	38.34	31.66	-25.26	-	2.10	46.84	53.9	7.0	157	327	VBW: 2 kHz
Vert.	5393.441	AV	37.38	31.69	-25.24	-	2.10	45.93	53.9	7.9	157	327	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

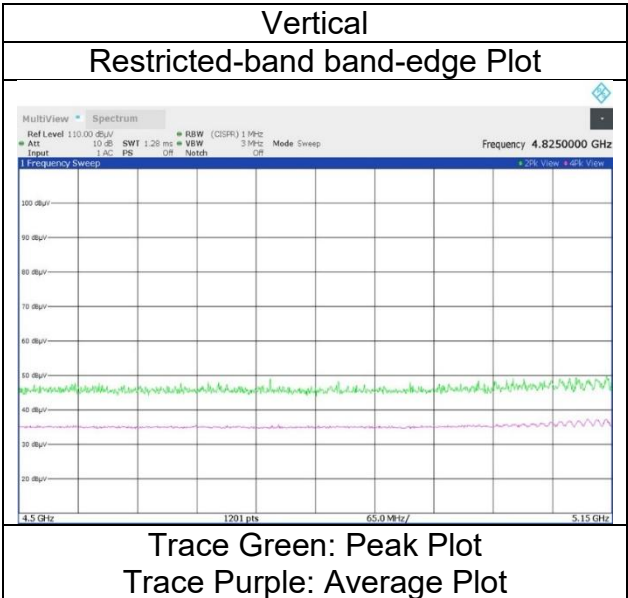
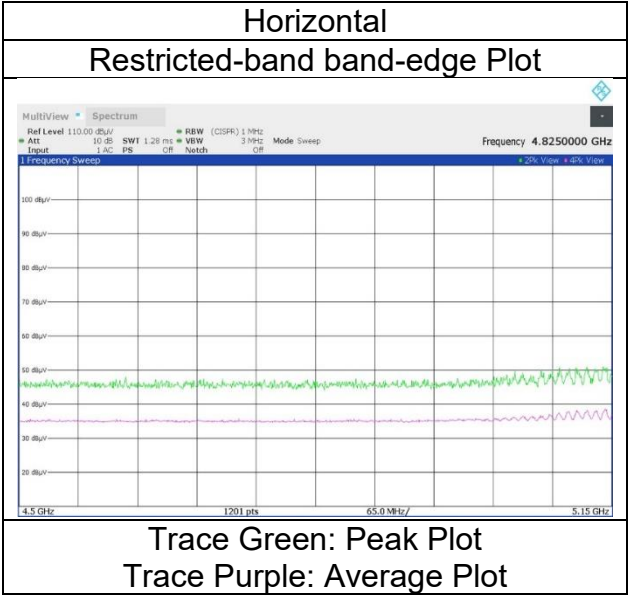
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
April 23, 2024
20 deg. C / 61 % RH
Takayuki Kobayashi
TX 11ax-160(OFDMA) 2*996-tone 5250 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 68



* 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 WAC1
Date April 23, 2024
Temperature / Humidity 20 deg. C / 61 % RH
Engineer Takayuki Kobayashi
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 2*996-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 68
(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.	5446.570	PK	49.03	31.78	-25.19	-	2.10	57.72	73.9	16.1	146	342	-
Hori.	5460.000	PK	47.25	31.78	-25.16	-	2.10	55.97	73.9	17.9	146	342	-
Hori.	5446.570	AV	36.09	31.78	-25.19	-	2.10	44.78	53.9	9.1	146	342	VBW: 2 kHz
Hori.	5460.000	AV	35.14	31.78	-25.16	-	2.10	43.86	53.9	10.0	146	342	VBW: 2 kHz
Vert.	5433.980	PK	51.47	31.76	-25.20	-	2.10	60.13	73.9	13.7	157	333	-
Vert.	5460.000	PK	47.55	31.78	-25.16	-	2.10	56.27	73.9	17.6	157	333	-
Vert.	5433.980	AV	36.34	31.76	-25.20	-	2.10	45.00	53.9	8.9	157	333	VBW: 2 kHz
Vert.	5460.000	AV	35.74	31.78	-25.16	-	2.10	44.46	53.9	9.4	157	333	VBW: 2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.58	31.79	-25.15	-	2.10	55.32	-39.91	-27.0	12.9	146	342	-
Hori.	5725.000	PK	47.09	32.01	-25.06	-	2.10	56.14	-39.09	-27.0	12.0	146	342	-
Vert.	5470.000	PK	47.75	31.79	-25.15	-	2.10	56.49	-38.74	-27.0	11.7	157	333	-
Vert.	5725.000	PK	49.88	32.01	-25.06	-	2.10	58.93	-36.30	-27.0	9.3	157	333	-
Vert.	5735.033	PK	50.61	32.05	-25.05	-	2.10	59.71	-35.52	-27.0	8.5	157	333	-
Vert.	5753.018	PK	50.15	32.09	-25.04	-	2.10	59.30	-35.93	-27.0	8.9	157	333	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = 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).

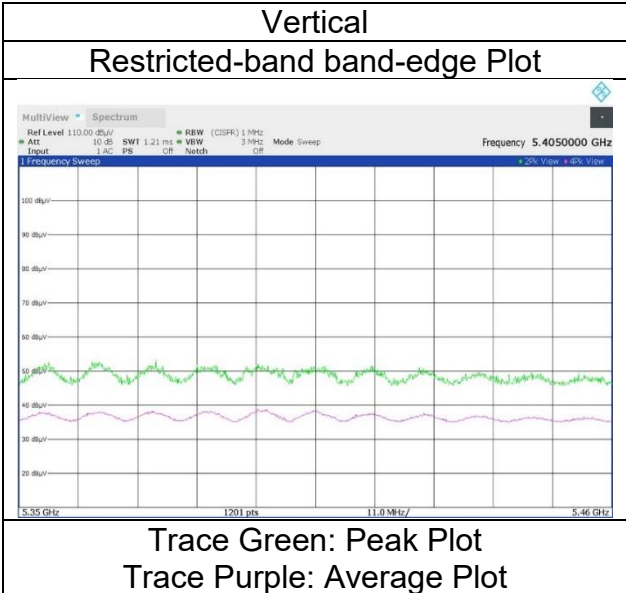
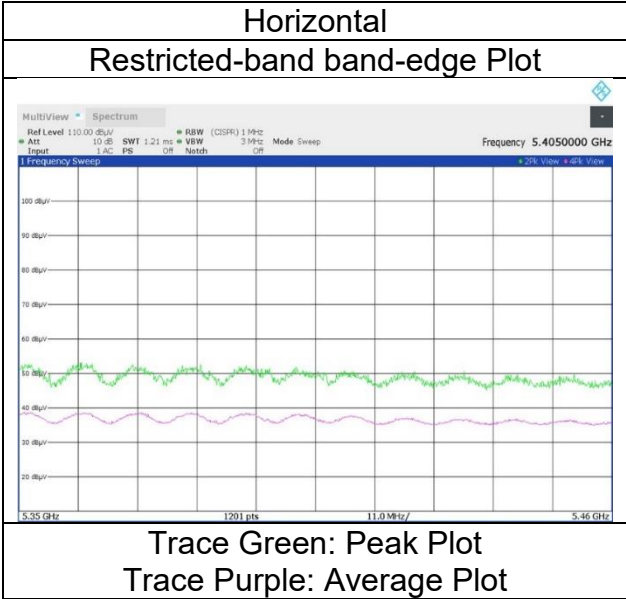
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 23, 2024
Temperature / Humidity	20 deg. C / 61 % RH
Engineer	Takayuki Kobayashi
Mode	TX 11ax-160(OFDMA) 2*996-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	31.86	-25.53	-	2.10	57.15	73.9	16.7	155	29	-
Hori.	5150.000	AV	34.74	31.86	-25.53	-	2.10	43.17	53.9	10.7	155	29	VBW:500 Hz
Vert.	5150.000	PK	48.71	31.86	-25.53	-	2.10	57.14	73.9	16.7	235	350	-
Vert.	5150.000	AV	34.53	31.86	-25.53	-	2.10	42.96	53.9	10.9	235	350	VBW:500 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

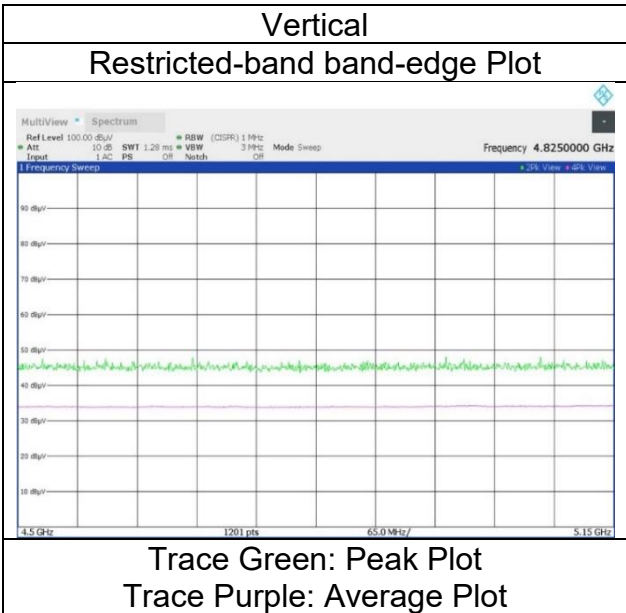
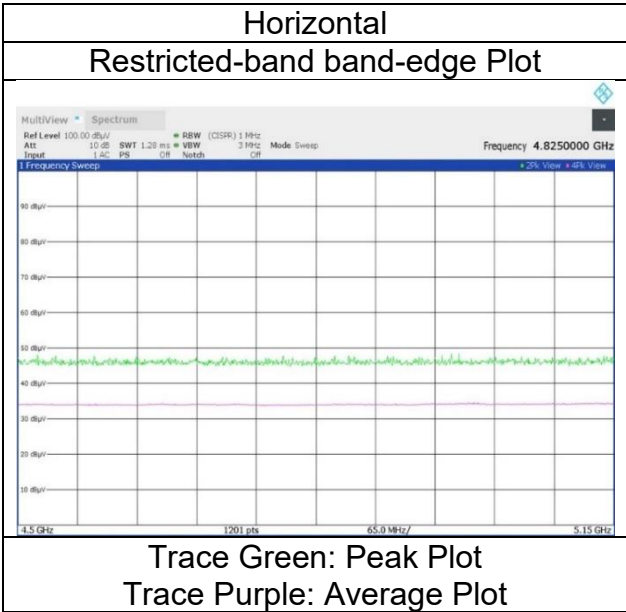
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11a Mbps 5180 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	49.05	31.58	-25.29	-	2.10	57.44	73.9	16.4	145	31	-
Hori.	5350.000	AV	34.59	31.58	-25.29	-	2.10	42.98	53.9	10.9	145	31	VBW:500 Hz
Vert.	5350.000	PK	48.87	31.58	-25.29	-	2.10	57.26	73.9	16.6	182	353	-
Vert.	5350.000	AV	34.38	31.58	-25.29	-	2.10	42.77	53.9	11.1	182	353	VBW:500 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

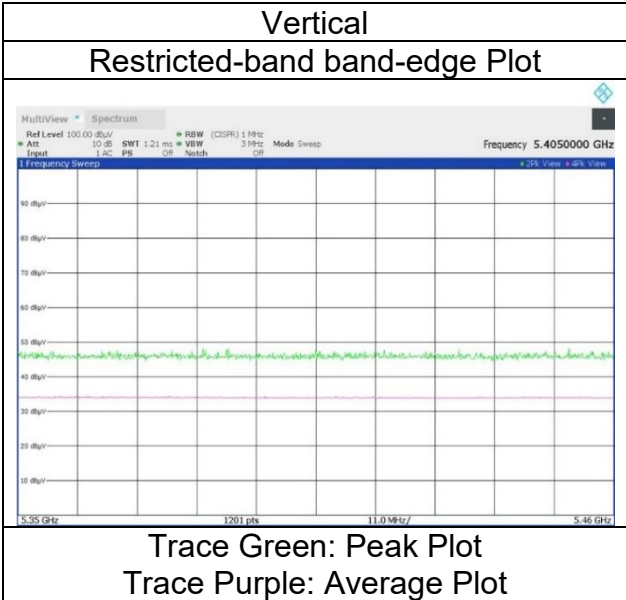
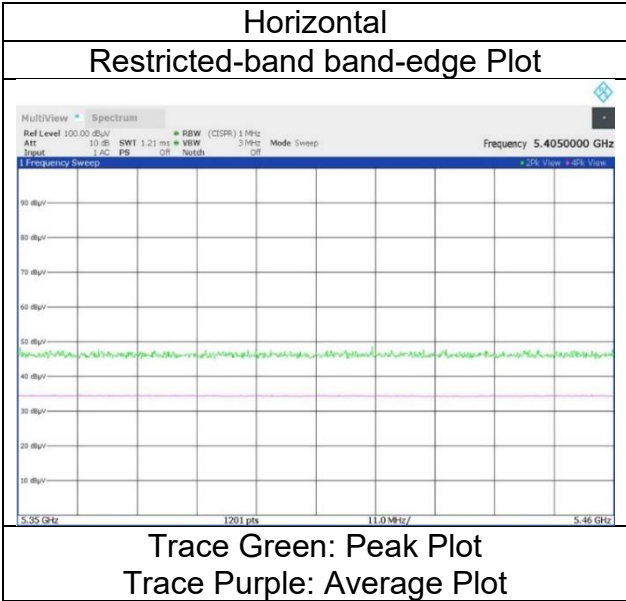
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11a Mbps 5320 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.48	31.78	-25.16	-	2.10	57.20	73.9	16.7	181	30	-
Hori.	5460.000	AV	34.54	31.78	-25.16	-	2.10	43.26	53.9	10.6	181	30	VBW:500 Hz
Vert.	5460.000	PK	48.65	31.78	-25.16	-	2.10	57.37	73.9	16.5	222	350	-
Vert.	5460.000	AV	34.57	31.78	-25.16	-	2.10	43.29	53.9	10.6	222	350	VBW:500 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.84	31.79	-25.15	-	2.10	57.58	-37.65	-27.0	10.6	181	30	-
Vert.	5470.000	PK	48.21	31.79	-25.15	-	2.10	56.95	-38.28	-27.0	11.2	222	350	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

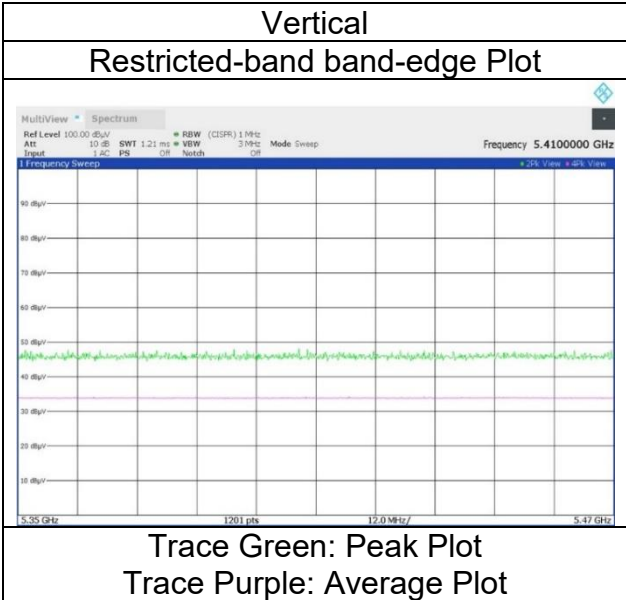
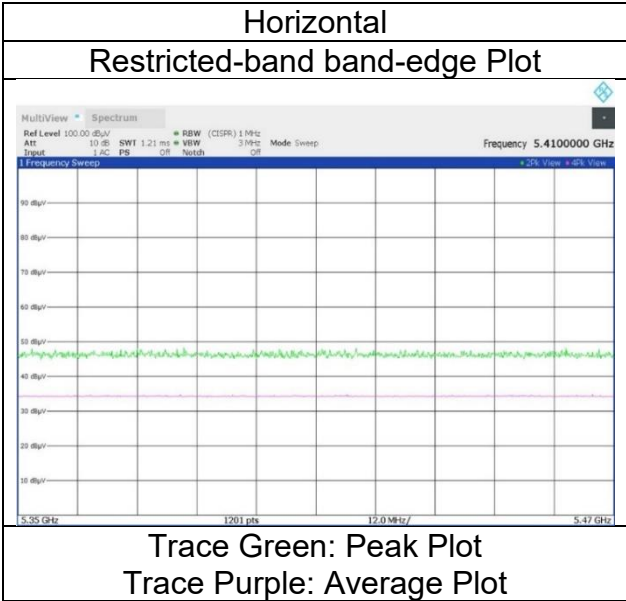
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11a Mbps 5500 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.73	32.01	-25.06	-	2.10	57.78	-37.45	-27.0	10.4	158	19	-
Vert.	5725.000	PK	48.72	32.01	-25.06	-	2.10	57.77	-37.46	-27.0	10.4	260	354	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

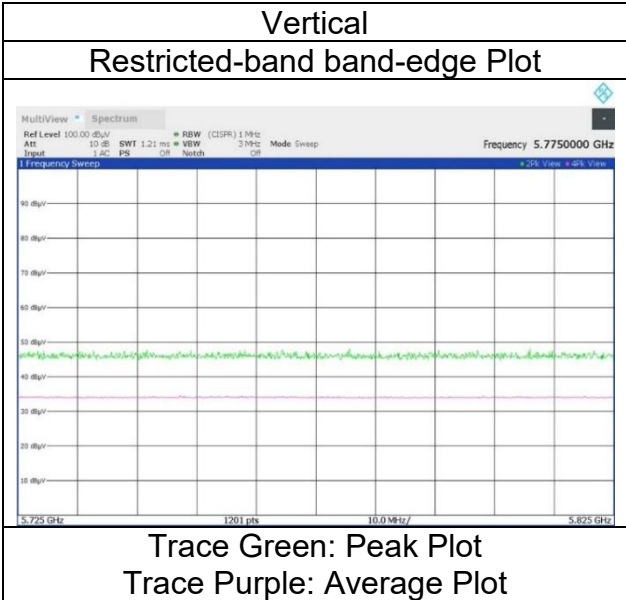
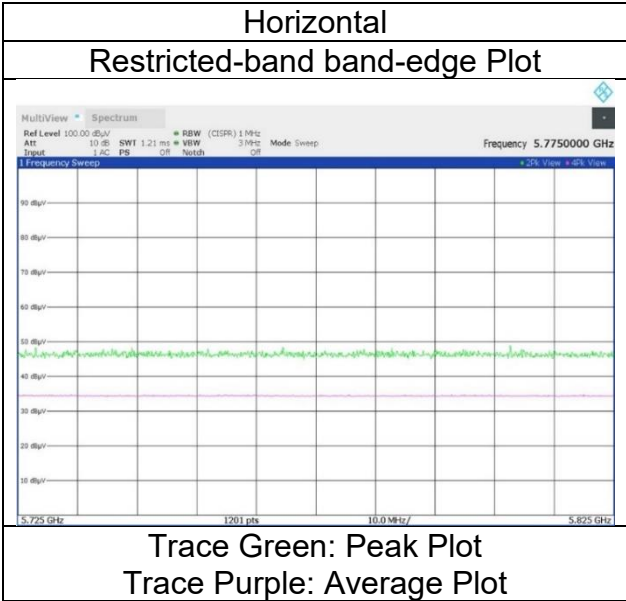
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11a Mbps 5700 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.22	31.84	-25.07	-	2.10	57.09	-38.14	-27.0	11.1	114	20	-
Hori.	5700.000	PK	49.36	31.95	-25.06	-	2.10	58.35	-36.88	10.0	46.8	114	20	-
Hori.	5720.000	PK	48.20	31.99	-25.05	-	2.10	57.24	-37.99	15.6	53.5	114	20	-
Hori.	5725.000	PK	49.44	32.01	-25.06	-	2.10	58.49	-36.74	27.0	63.7	114	20	-
Vert.	5650.000	PK	48.26	31.84	-25.07	-	2.10	57.13	-38.10	-27.0	11.1	274	355	-
Vert.	5700.000	PK	48.56	31.95	-25.06	-	2.10	57.55	-37.68	10.0	47.6	274	355	-
Vert.	5720.000	PK	48.30	31.99	-25.05	-	2.10	57.34	-37.89	15.6	53.4	274	355	-
Vert.	5725.000	PK	49.38	32.01	-25.06	-	2.10	58.43	-36.80	27.0	63.8	274	355	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

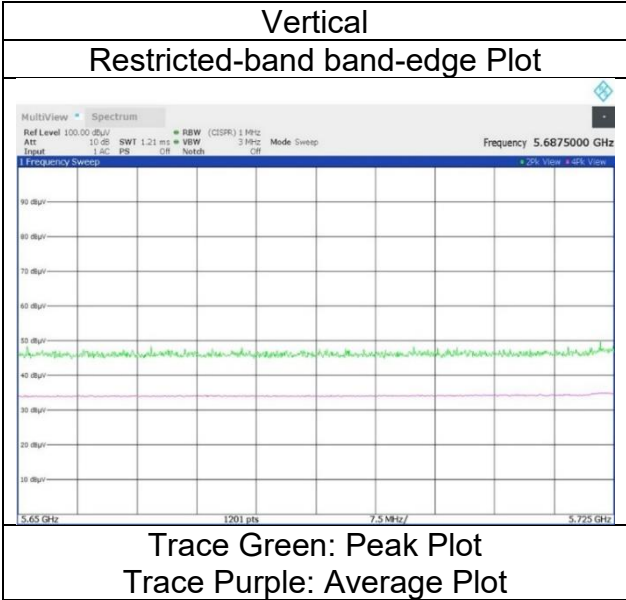
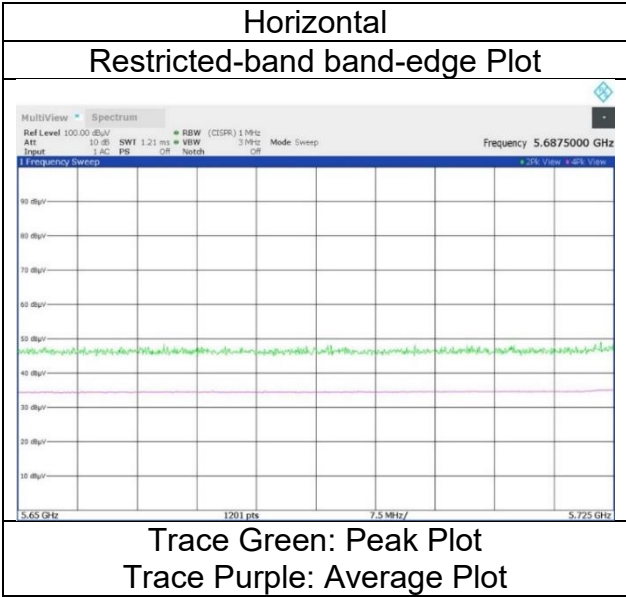
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11a Mbps 5745 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11a Mbps 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.03	32.33	-25.01	-	2.10	58.45	-36.78	27.0	63.7	119	19	-
Hori.	5855.000	PK	48.35	32.34	-25.00	-	2.10	57.79	-37.44	15.6	53.0	119	19	-
Hori.	5875.000	PK	48.64	32.38	-25.00	-	2.10	58.12	-37.11	10.0	47.1	119	19	-
Hori.	5925.000	PK	49.59	32.46	-24.99	-	2.10	59.16	-36.07	-27.0	9.0	119	19	-
Vert.	5850.000	PK	48.87	32.33	-25.01	-	2.10	58.29	-36.94	27.0	63.9	274	338	-
Vert.	5855.000	PK	48.55	32.34	-25.00	-	2.10	57.99	-37.24	15.6	52.8	274	338	-
Vert.	5875.000	PK	48.68	32.38	-25.00	-	2.10	58.16	-37.07	10.0	47.0	274	338	-
Vert.	5925.000	PK	49.32	32.46	-24.99	-	2.10	58.89	-36.34	-27.0	9.3	274	338	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

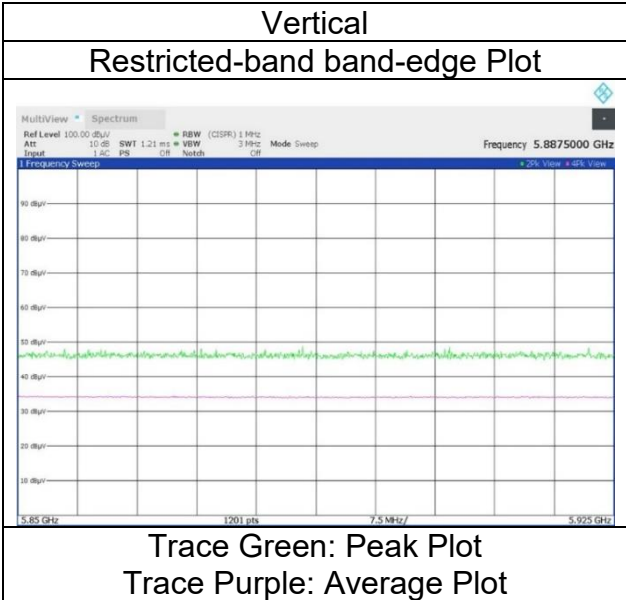
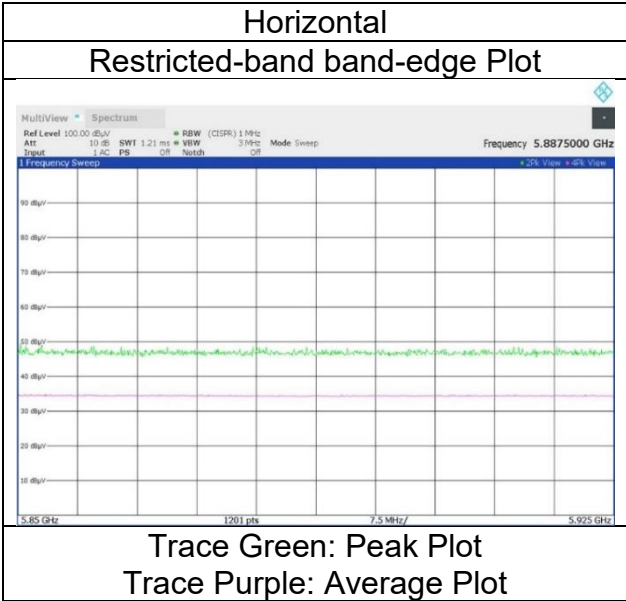
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 14, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11a Mbps 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.84	31.86	-25.53	-	2.10	57.27	73.9	16.6	148	35	-
Hori.	15540.000	PK	46.37	39.48	11.65	40.53	-9.54	47.43	73.9	26.4	150	0	-
Hori.	5150.000	AV	34.55	31.86	-25.53	-	2.10	42.98	53.9	10.9	148	35	VBW:200 Hz
Hori.	15540.000	AV	35.15	39.48	11.65	40.53	-9.54	36.21	53.9	17.6	150	0	VBW:200 Hz, FloorNoise
Vert.	5150.000	PK	48.73	31.86	-25.53	-	2.10	57.16	73.9	16.7	122	359	-
Vert.	15540.000	PK	45.72	39.48	11.65	40.53	-9.54	46.78	73.9	27.1	150	0	-
Vert.	5150.000	AV	34.68	31.86	-25.53	-	2.10	43.11	53.9	10.7	122	359	VBW:200 Hz
Vert.	15540.000	AV	35.56	39.48	11.65	40.53	-9.54	36.62	53.9	17.2	150	0	VBW:200 Hz, FloorNoise

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 (3.82 m / 3.0 m) = 2.10 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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6906.260	PK	52.21	35.13	-33.35	-	2.10	56.09	-39.14	-27.0	12.1	227	49	-
Hori.	10360.000	PK	56.29	36.36	9.37	42.84	-9.54	49.64	-45.59	-27.0	18.5	206	205	-
Vert.	6906.556	PK	52.13	35.14	-33.35	-	2.10	56.02	-39.21	-27.0	12.2	144	317	-
Vert.	10360.000	PK	57.62	36.36	9.37	42.84	-9.54	50.97	-44.26	-27.0	17.2	114	235	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

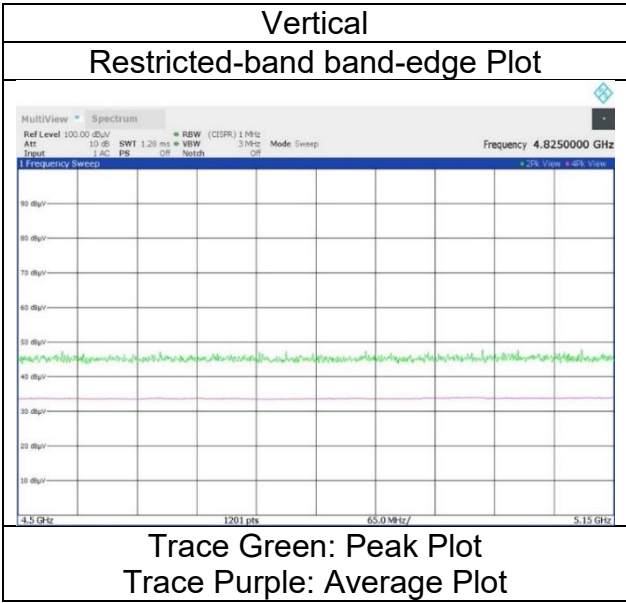
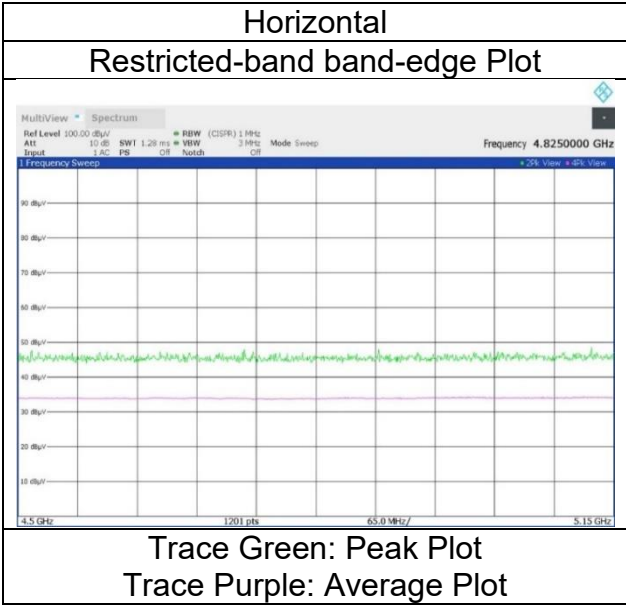
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 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	WAC1
Date	January 14, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-20 5180 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.87	31.58	-25.29	-	2.10	57.26	73.9	16.6	209	26	-
Hori.	10640.000	PK	53.13	37.12	9.46	42.86	-9.54	47.31	73.9	26.5	186	206	-
Hori.	15960.000	PK	45.68	40.08	11.53	40.60	-9.54	47.15	73.9	26.7	150	0	-
Hori.	5350.000	AV	34.40	31.58	-25.29	-	2.10	42.79	53.9	11.1	209	26	VBW:200 Hz
Hori.	10640.000	AV	40.75	37.12	9.46	42.86	-9.54	34.93	53.9	18.9	186	206	VBW:200 Hz
Hori.	15960.000	AV	33.94	40.08	11.53	40.60	-9.54	35.41	53.9	18.4	150	0	VBW:200 Hz, FloorNoise
Vert.	5350.000	PK	48.68	31.58	-25.29	-	2.10	57.07	73.9	16.8	219	350	-
Vert.	10640.000	PK	52.25	37.12	9.46	42.86	-9.54	46.43	73.9	27.4	177	255	-
Vert.	15960.000	PK	45.61	40.08	11.53	40.60	-9.54	47.08	73.9	26.8	150	0	-
Vert.	5350.000	AV	34.53	31.58	-25.29	-	2.10	42.92	53.9	10.9	219	350	VBW:200 Hz
Vert.	10640.000	AV	40.05	37.12	9.46	42.86	-9.54	34.23	53.9	19.6	177	255	VBW:200 Hz
Vert.	15960.000	AV	33.84	40.08	11.53	40.60	-9.54	35.31	53.9	18.5	150	0	VBW:200 Hz, FloorNoise

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7093.298	PK	52.80	36.07	-33.21	-	2.10	57.76	-37.47	-27.0	10.4	293	38	-
Vert.	7093.298	PK	52.68	36.07	-33.21	-	2.10	57.64	-37.59	-27.0	10.5	202	342	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

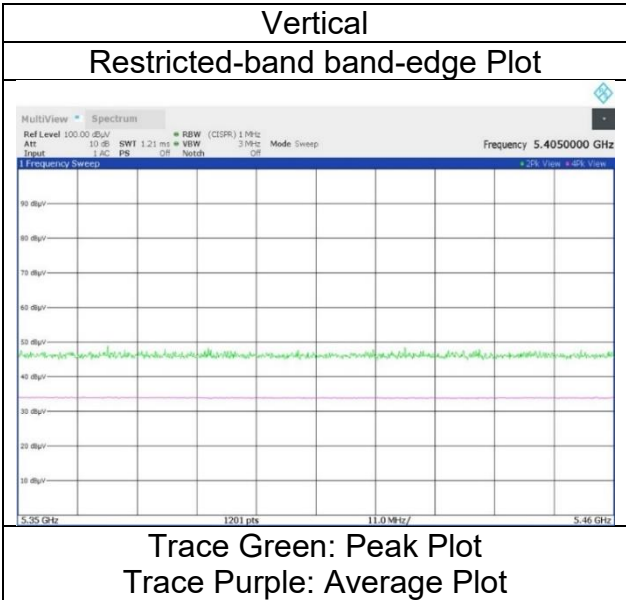
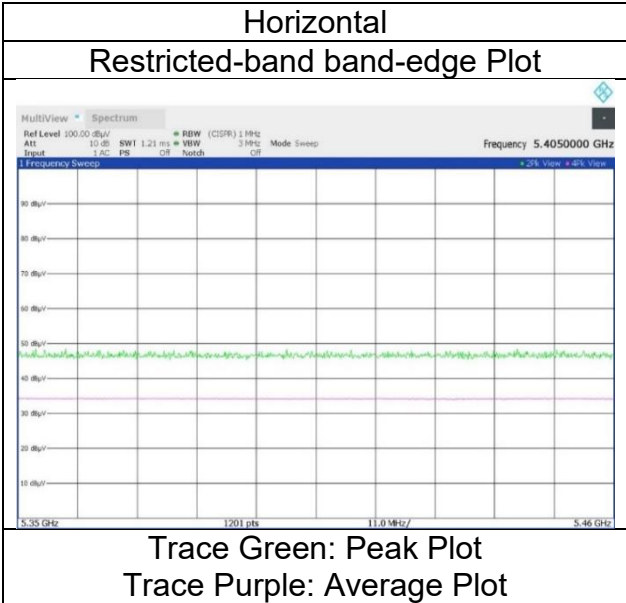
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 14, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-20 5320 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.12	31.78	-25.16	-	2.10	56.84	73.9	17.0	165	34	-
Hori.	11000.000	PK	50.29	37.58	9.59	42.90	-9.54	45.02	73.9	28.8	199	215	-
Hori.	5460.000	AV	34.37	31.78	-25.16	-	2.10	43.09	53.9	10.8	165	34	VBW:200 Hz
Hori.	11000.000	AV	37.64	37.58	9.59	42.90	-9.54	32.37	53.9	21.5	199	215	VBW:200 Hz
Vert.	5460.000	PK	48.71	31.78	-25.16	-	2.10	57.43	73.9	16.4	293	354	-
Vert.	11000.000	PK	49.10	37.58	9.59	42.90	-9.54	43.83	73.9	30.0	183	262	-
Vert.	5460.000	AV	34.58	31.78	-25.16	-	2.10	43.30	53.9	10.6	293	354	VBW:200 Hz
Vert.	11000.000	AV	36.93	37.58	9.59	42.90	-9.54	31.66	53.9	22.2	183	262	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.10	31.79	-25.15	-	2.10	57.84	-37.39	-27.0	10.3	165	34	-
Hori.	6600.000	PK	49.11	34.30	-33.36	-	2.10	52.15	-43.08	-27.0	16.0	139	38	-
Hori.	16500.000	PK	46.54	40.19	12.29	40.65	-9.54	48.83	-46.40	-27.0	19.4	150	0	-
Vert.	5470.000	PK	49.23	31.79	-25.15	-	2.10	57.97	-37.26	-27.0	10.2	293	354	-
Vert.	6600.000	PK	49.86	34.30	-33.36	-	2.10	52.90	-42.33	-27.0	15.3	178	356	-
Vert.	16500.000	PK	46.20	40.19	12.29	40.65	-9.54	48.49	-46.74	-27.0	19.7	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

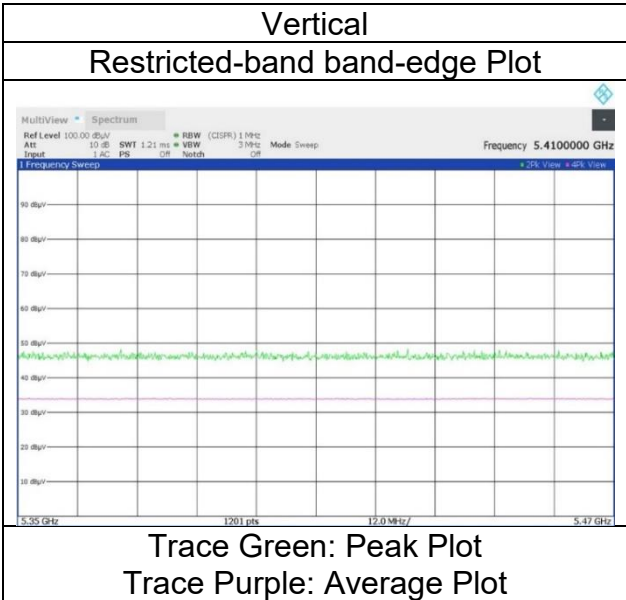
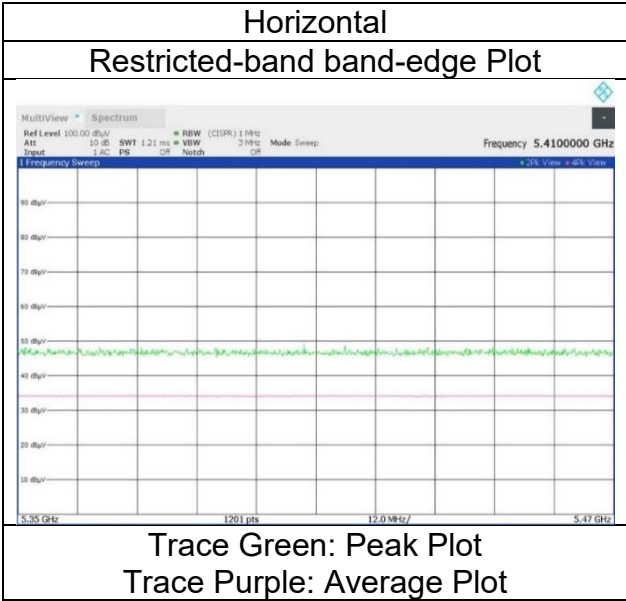
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11n-20 5500 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5580 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11160.000	PK	48.08	37.72	9.68	42.80	-9.54	43.14	73.9	30.7	200	211	-
Hori.	11160.000	AV	36.11	37.72	9.68	42.80	-9.54	31.17	53.9	22.7	200	211	VBW:200 Hz
Vert.	11160.000	PK	47.91	37.72	9.68	42.80	-9.54	42.97	73.9	30.9	177	262	-
Vert.	11160.000	AV	35.33	37.72	9.68	42.80	-9.54	30.39	53.9	23.5	177	262	VBW:200 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6695.662	PK	48.96	34.33	-33.36	-	2.10	52.03	-43.20	-27.0	16.2	153	39	-
Hori.	16740.000	PK	46.42	39.61	12.39	40.57	-9.54	48.31	-46.92	-27.0	19.9	150	0	-
Vert.	6695.702	PK	49.17	34.33	-33.36	-	2.10	52.24	-42.99	-27.0	15.9	217	336	-
Vert.	16740.000	PK	46.22	39.61	12.39	40.57	-9.54	48.11	-47.12	-27.0	20.1	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11400.000	PK	47.79	38.26	9.80	42.64	-9.54	43.67	73.9	30.2	199	202	-
Hori.	11400.000	AV	35.58	38.26	9.80	42.64	-9.54	31.46	53.9	22.4	199	202	VBW:200 Hz
Vert.	11400.000	PK	47.83	38.26	9.80	42.64	-9.54	43.71	73.9	30.1	130	237	-
Vert.	11400.000	AV	35.43	38.26	9.80	42.64	-9.54	31.31	53.9	22.5	130	237	VBW:200 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.43	32.01	-25.06	-	2.10	57.48	-37.75	-27.0	10.7	117	49	-
Hori.	6840.000	PK	48.44	34.75	-33.34	-	2.10	51.95	-43.28	-27.0	16.2	143	50	-
Hori.	17100.000	PK	46.45	39.85	12.51	40.42	-9.54	48.85	-46.38	-27.0	19.3	150	0	-
Vert.	5725.000	PK	49.37	32.01	-25.06	-	2.10	58.42	-36.81	-27.0	9.8	298	357	-
Vert.	6840.000	PK	48.65	34.75	-33.34	-	2.10	52.16	-43.07	-27.0	16.0	103	2	-
Vert.	17100.000	PK	46.38	39.85	12.51	40.42	-9.54	48.78	-46.45	-27.0	19.4	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Other bands : 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).

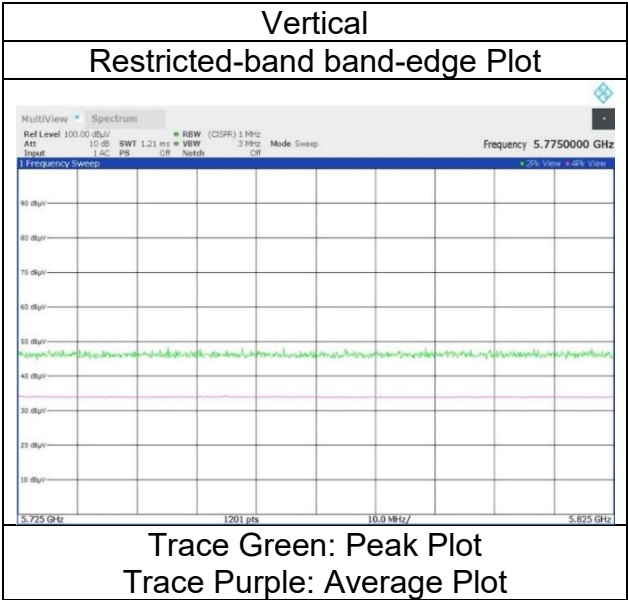
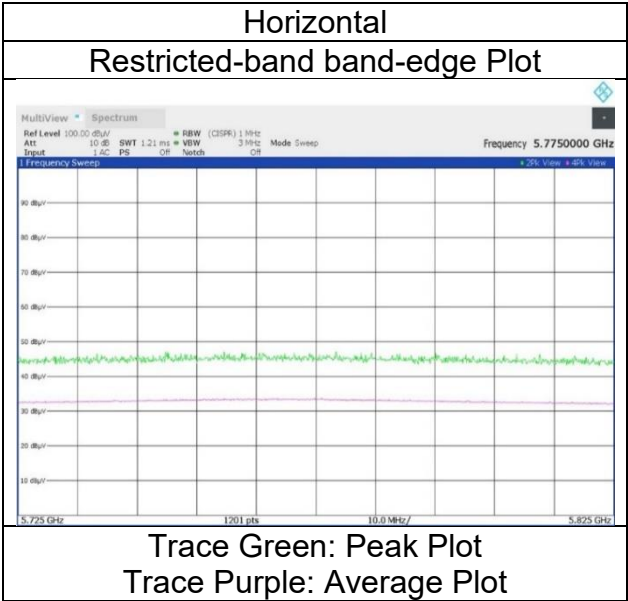
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11n-20 5700 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11490.000	PK	47.45	38.01	-27.96	-	-9.54	47.96	73.9	25.9	200	243	-
Hori.	11490.000	AV	34.71	38.01	-27.96	-	-9.54	35.22	53.9	18.6	200	243	VBW:200 Hz
Vert.	11490.000	PK	48.59	38.01	-27.96	-	-9.54	49.10	73.9	24.8	179	245	-
Vert.	11490.000	AV	34.16	38.01	-27.96	-	-9.54	34.67	53.9	19.2	179	245	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.81	31.84	-25.07	-	2.10	56.68	-38.55	-27.0	11.5	103	40	-
Hori.	5700.000	PK	48.72	31.95	-25.06	-	2.10	57.71	-37.52	10.0	47.5	103	40	-
Hori.	5720.000	PK	48.22	31.99	-25.05	-	2.10	57.26	-37.97	15.6	53.5	103	40	-
Hori.	5725.000	PK	49.93	32.01	-25.06	-	2.10	58.98	-36.25	27.0	63.2	103	40	-
Hori.	6894.000	PK	48.70	35.05	-33.35	-	2.10	52.50	-42.73	-27.0	15.7	120	57	-
Hori.	17235.000	PK	48.45	40.12	-24.42	-	-9.54	54.61	-40.62	-27.0	13.6	150	0	-
Vert.	5650.000	PK	47.88	31.84	-25.07	-	2.10	56.75	-38.48	-27.0	11.4	318	333	-
Vert.	5700.000	PK	48.71	31.95	-25.06	-	2.10	57.70	-37.53	10.0	47.5	318	333	-
Vert.	5720.000	PK	49.86	31.99	-25.05	-	2.10	58.90	-36.33	15.6	51.9	318	333	-
Vert.	5725.000	PK	48.88	32.01	-25.06	-	2.10	57.93	-37.30	27.0	64.3	318	333	-
Vert.	6894.000	PK	48.86	35.05	-33.35	-	2.10	52.66	-42.57	-27.0	15.5	149	318	-
Vert.	17235.000	PK	48.43	40.12	-24.42	-	-9.54	54.59	-40.64	-27.0	13.6	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

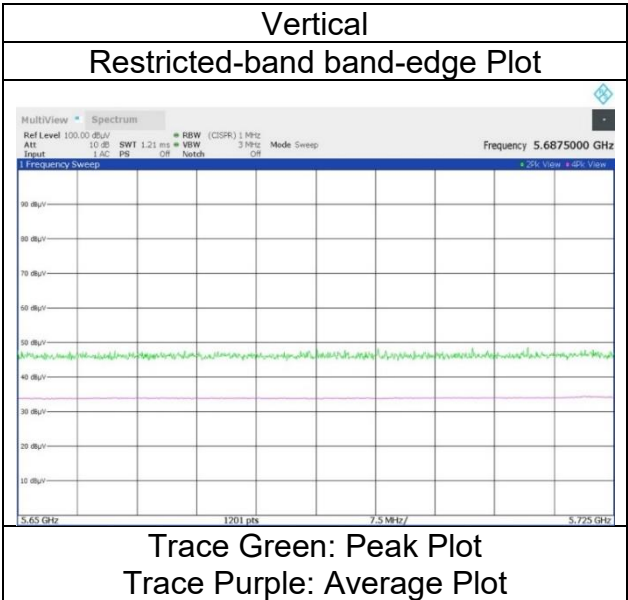
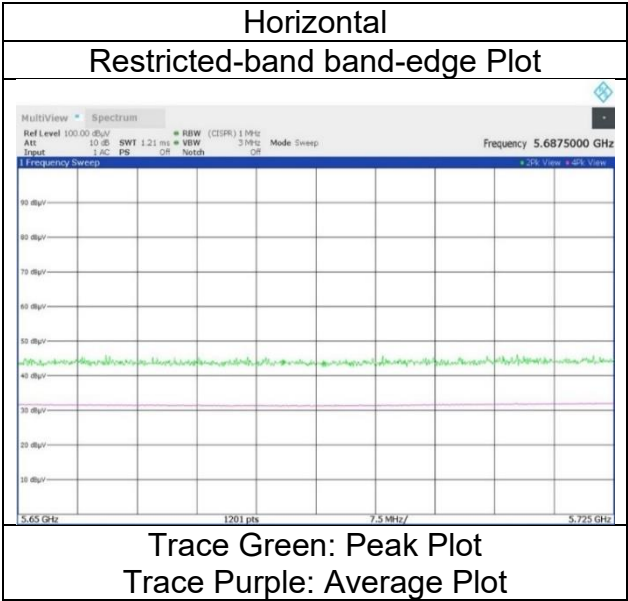
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11n-20 5745 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11n-20 5785 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11570.000	PK	48.74	38.03	-27.99	-	-9.54	49.24	73.9	24.6	142	248	-
Hori.	11570.000	AV	34.54	38.03	-27.99	-	-9.54	35.04	53.9	18.8	142	248	VBW:200 Hz
Vert.	11570.000	PK	49.28	38.03	-27.99	-	-9.54	49.78	73.9	24.1	177	247	-
Vert.	11570.000	AV	35.47	38.03	-27.99	-	-9.54	35.97	53.9	17.9	177	247	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6942.000	PK	48.32	35.34	-33.34	-	2.10	52.42	-42.81	-27.0	15.8	223	64	-
Hori.	17355.000	PK	47.86	40.24	-24.33	-	-9.54	54.23	-41.00	-27.0	14.0	150	0	-
Vert.	6942.000	PK	48.51	35.34	-33.34	-	2.10	52.61	-42.62	-27.0	15.6	325	143	-
Vert.	17355.000	PK	48.06	40.24	-24.33	-	-9.54	54.43	-40.80	-27.0	13.8	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date January 14, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11n-20 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11650.000	PK	49.16	38.05	-28.03	-	-9.54	49.64	73.9	24.2	128	245	-
Hori.	11650.000	AV	35.12	38.05	-28.03	-	-9.54	35.60	53.9	18.3	128	245	VBW:200 Hz
Vert.	11650.000	PK	49.61	38.05	-28.03	-	-9.54	50.09	73.9	23.8	177	243	-
Vert.	11650.000	AV	35.82	38.05	-28.03	-	-9.54	36.30	53.9	17.6	177	243	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.68	32.33	-25.01	-	2.10	58.10	-37.13	27.0	64.1	121	33	-
Hori.	5855.000	PK	47.99	32.34	-25.00	-	2.10	57.43	-37.80	15.6	53.4	121	33	-
Hori.	5875.000	PK	47.75	32.38	-25.00	-	2.10	57.23	-38.00	10.0	48.0	121	33	-
Hori.	5925.000	PK	48.28	32.46	-24.99	-	2.10	57.85	-37.38	-27.0	10.3	121	33	-
Hori.	7766.622	PK	49.96	36.28	-32.42	-	2.10	55.92	-39.31	-27.0	12.3	150	48	-
Hori.	17475.000	PK	48.31	40.28	-24.25	-	-9.54	54.80	-40.43	-27.0	13.4	150	0	-
Vert.	5850.000	PK	48.86	32.33	-25.01	-	2.10	58.28	-36.95	27.0	63.9	159	343	-
Vert.	5855.000	PK	48.43	32.34	-25.00	-	2.10	57.87	-37.36	15.6	52.9	159	343	-
Vert.	5875.000	PK	47.86	32.38	-25.00	-	2.10	57.34	-37.89	10.0	47.8	159	343	-
Vert.	5925.000	PK	48.35	32.46	-24.99	-	2.10	57.92	-37.31	-27.0	10.3	159	343	-
Vert.	7766.611	PK	49.86	36.28	-32.42	-	2.10	55.82	-39.41	-27.0	12.4	171	354	-
Vert.	17475.000	PK	37.85	40.28	-24.25	-	-9.54	44.34	-50.89	-27.0	23.8	150	0	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

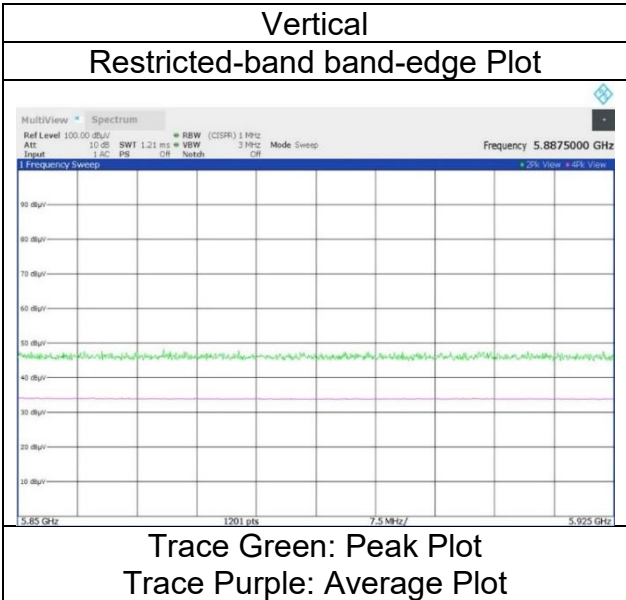
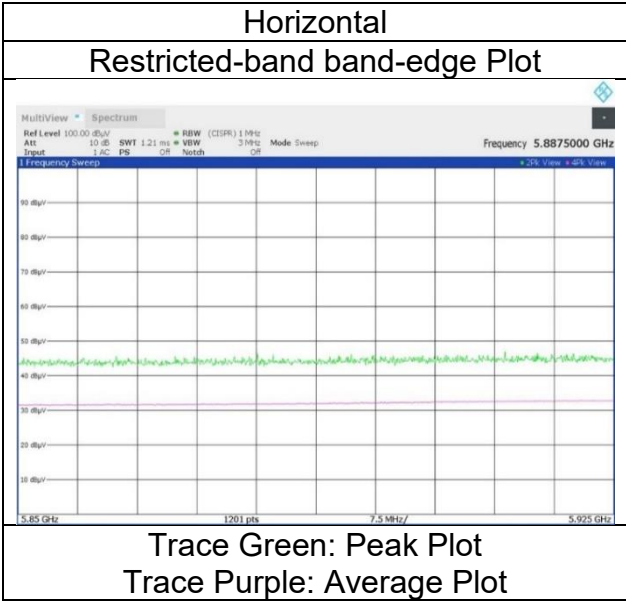
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 14, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11n-20 5825 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 15, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.84	31.86	-25.53	-	2.10	57.27	73.9	16.6	201	50	-
Hori.	5150.000	AV	34.18	31.86	-25.53	-	2.10	42.61	53.9	11.2	201	50	VBW:200 Hz
Vert.	5150.000	PK	48.61	31.86	-25.53	-	2.10	57.04	73.9	16.8	197	359	-
Vert.	5150.000	AV	34.37	31.86	-25.53	-	2.10	42.80	53.9	11.1	197	359	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

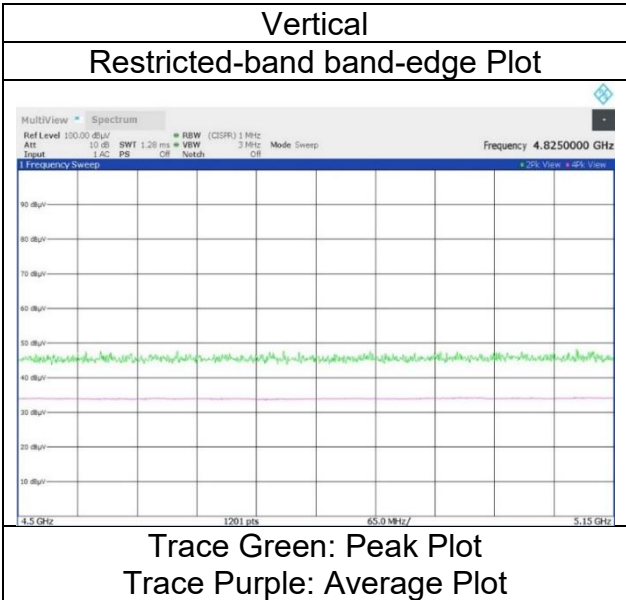
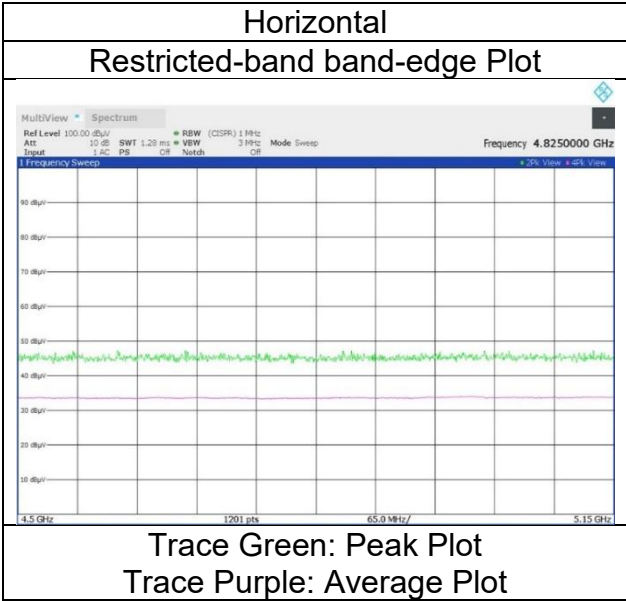
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5180 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 15, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.18	31.58	-25.29	-	2.10	56.57	73.9	17.3	156	44	-
Hori.	5350.000	AV	34.14	31.58	-25.29	-	2.10	42.53	53.9	11.3	156	44	VBW:200 Hz
Vert.	5350.000	PK	48.53	31.58	-25.29	-	2.10	56.92	73.9	16.9	191	1	-
Vert.	5350.000	AV	34.25	31.58	-25.29	-	2.10	42.64	53.9	11.2	191	1	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

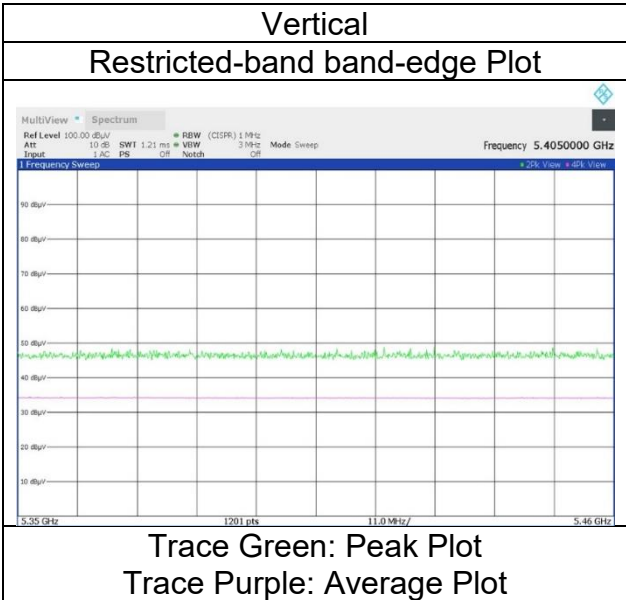
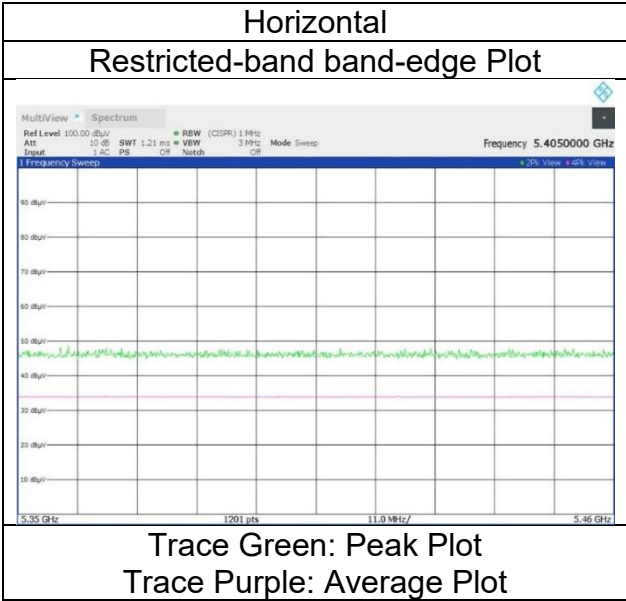
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5320 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 15, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.61	31.78	-25.16	-	2.10	57.33	73.9	16.5	141	52	-
Hori.	5460.000	AV	34.14	31.78	-25.16	-	2.10	42.86	53.9	11.0	141	52	VBW:200 Hz
Vert.	5460.000	PK	49.17	31.78	-25.16	-	2.10	57.89	73.9	16.0	260	338	-
Vert.	5460.000	AV	34.32	31.78	-25.16	-	2.10	43.04	53.9	10.8	260	338	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.75	31.79	-25.15	-	2.10	56.49	-38.74	-27.0	11.7	141	52	-
Vert.	5470.000	PK	48.30	31.79	-25.15	-	2.10	57.04	-38.19	-27.0	11.1	260	338	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

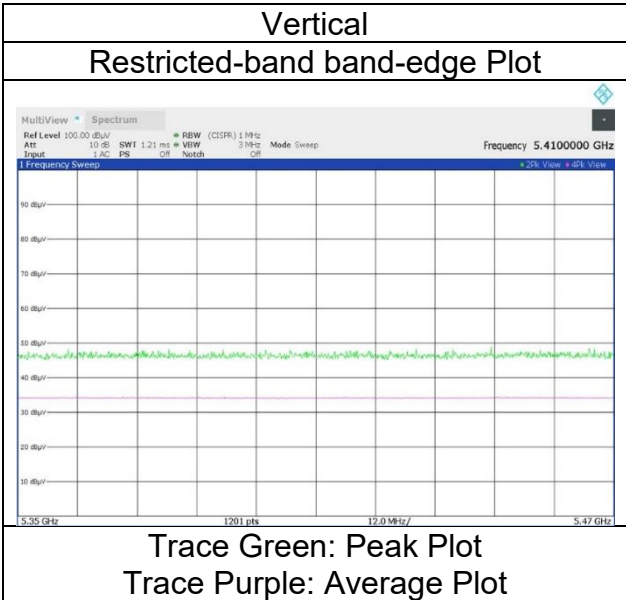
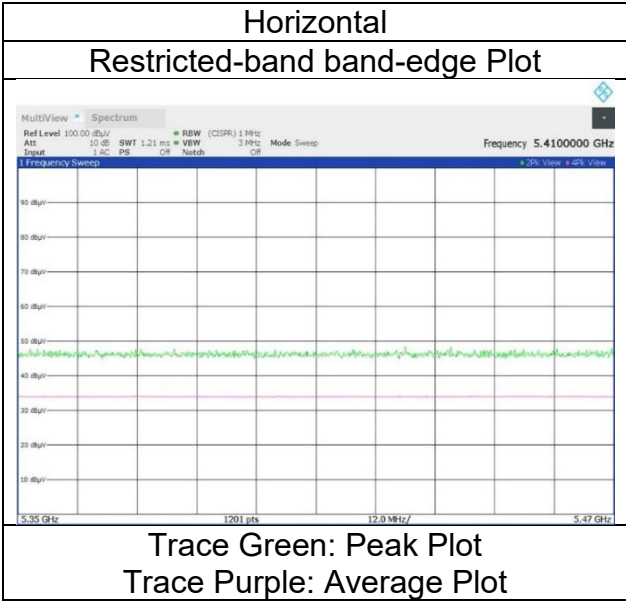
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5500 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 15, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.07	32.01	-25.06	-	2.10	58.12	-37.11	-27.0	10.1	146	33	-
Vert.	5725.000	PK	48.72	32.01	-25.06	-	2.10	57.77	-37.46	-27.0	10.4	264	352	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

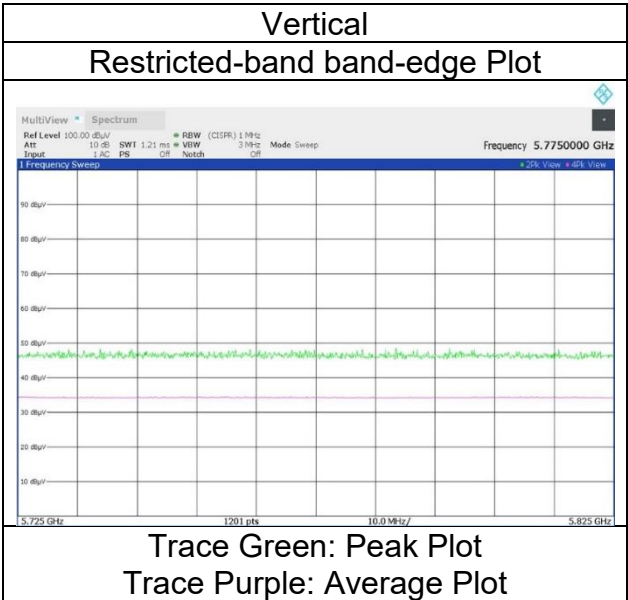
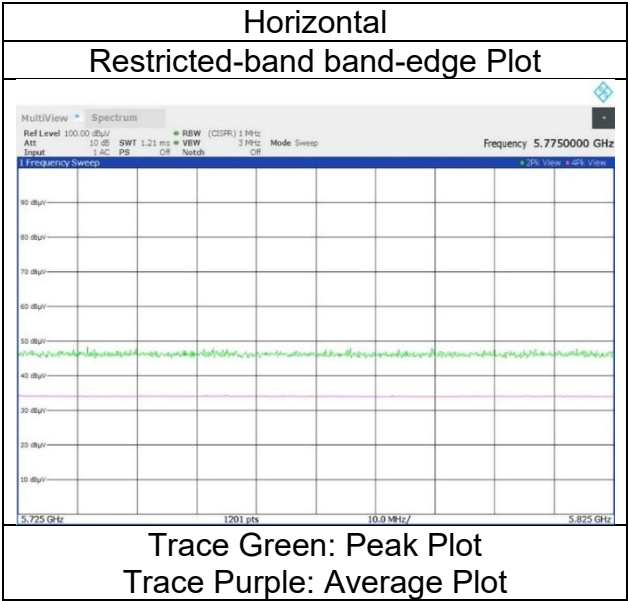
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5700 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 15, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.43	31.84	-25.07	-	2.10	57.30	-37.93	-27.0	10.9	103	37	-
Hori.	5700.000	PK	48.20	31.95	-25.06	-	2.10	57.19	-38.04	10.0	48.0	103	37	-
Hori.	5720.000	PK	48.58	31.99	-25.05	-	2.10	57.62	-37.61	15.6	53.2	103	37	-
Hori.	5725.000	PK	49.07	32.01	-25.06	-	2.10	58.12	-37.11	27.0	64.1	103	37	-
Vert.	5650.000	PK	48.52	31.84	-25.07	-	2.10	57.39	-37.84	-27.0	10.8	213	344	-
Vert.	5700.000	PK	49.36	31.95	-25.06	-	2.10	58.35	-36.88	10.0	46.8	213	344	-
Vert.	5720.000	PK	48.22	31.99	-25.05	-	2.10	57.26	-37.97	15.6	53.5	213	344	-
Vert.	5725.000	PK	48.70	32.01	-25.06	-	2.10	57.75	-37.48	27.0	64.4	213	344	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

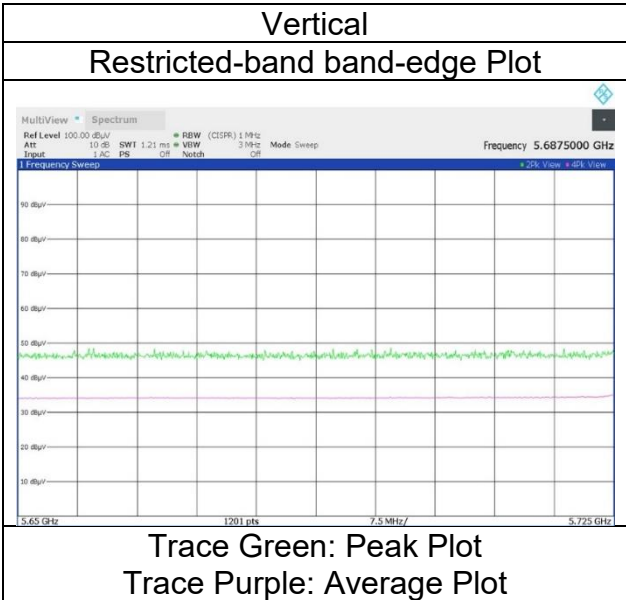
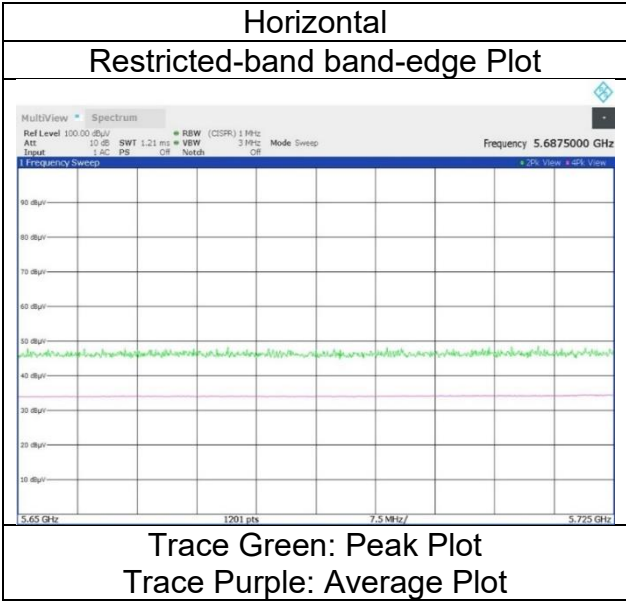
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5745 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5825 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.46	32.33	-25.01	-	2.10	58.88	-36.35	27.0	63.3	122	33	-
Hori.	5855.000	PK	48.96	32.34	-25.00	-	2.10	58.40	-36.83	15.6	52.4	122	33	-
Hori.	5875.000	PK	48.23	32.38	-25.00	-	2.10	57.71	-37.52	10.0	47.5	122	33	-
Hori.	5925.000	PK	48.42	32.46	-24.99	-	2.10	57.99	-37.24	-27.0	10.2	122	33	-
Vert.	5850.000	PK	49.01	32.33	-25.01	-	2.10	58.43	-36.80	27.0	63.8	218	340	-
Vert.	5855.000	PK	48.79	32.34	-25.00	-	2.10	58.23	-37.00	15.6	52.6	218	340	-
Vert.	5875.000	PK	48.60	32.38	-25.00	-	2.10	58.08	-37.15	10.0	47.1	218	340	-
Vert.	5925.000	PK	48.45	32.46	-24.99	-	2.10	58.02	-37.21	-27.0	10.2	218	340	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

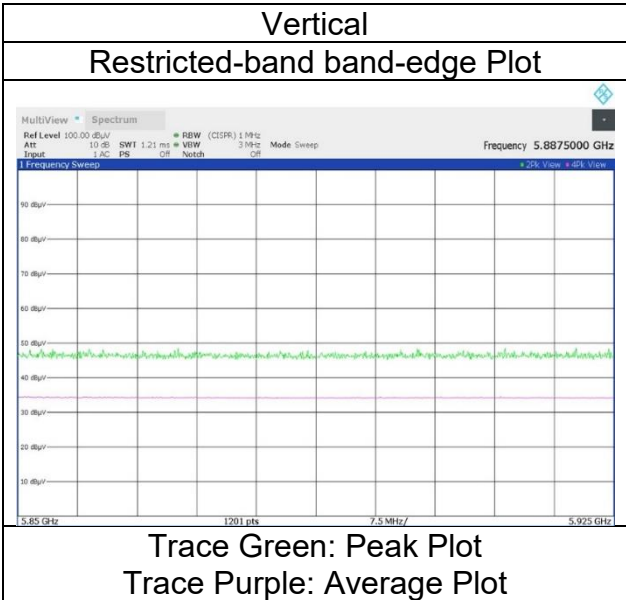
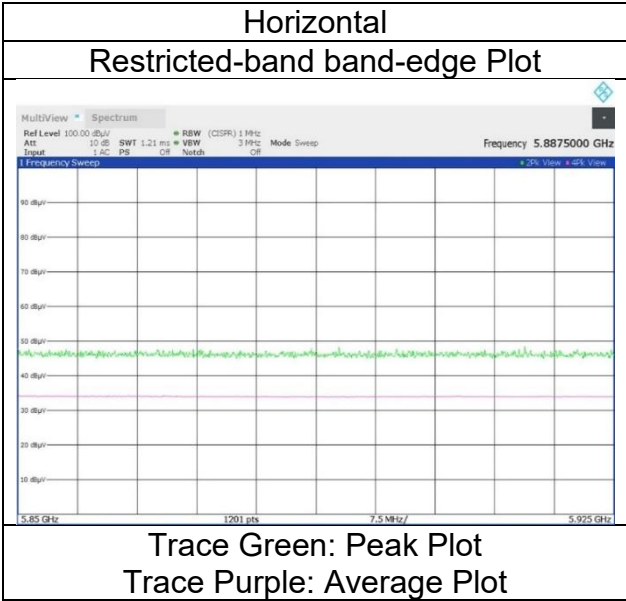
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5825 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5180 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	47.78	31.86	-25.53	-	2.10	56.21	73.9	17.6	131	46	-
Hori.	15540.000	PK	47.01	39.54	-25.86	-	-9.54	51.15	73.9	22.7	150	0	-
Hori.	5150.000	AV	35.80	31.86	-25.53	-	2.10	44.23	53.9	9.6	131	46	VBW:200Hz
Hori.	15540.000	AV	32.27	39.54	-25.86	-	-9.54	36.41	53.9	17.4	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	48.45	31.86	-25.53	-	2.10	56.88	73.9	17.0	176	8	-
Vert.	15540.000	PK	46.60	39.54	-25.86	-	-9.54	50.74	73.9	23.1	150	0	-
Vert.	5150.000	AV	34.29	31.86	-25.53	-	2.10	42.72	53.9	11.1	176	8	VBW:200Hz
Vert.	15540.000	AV	32.28	39.54	-25.86	-	-9.54	36.42	53.9	17.4	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bads: 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 (3.82 m / 3.0 m) = 2.10 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.	6906.256	PK	53.43	35.13	-33.35	-	2.10	57.31	-37.92	-27.0	10.9	204	55	-
Hori.	10360.000	PK	52.86	36.27	-29.58	-	-9.54	50.01	-45.22	-27.0	18.2	130	135	-
Vert.	6906.321	PK	53.06	35.13	-33.35	-	2.10	56.94	-38.29	-27.0	11.2	152	332	-
Vert.	10360.000	PK	55.72	36.27	-29.58	-	-9.54	52.87	-42.36	-27.0	15.3	148	267	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bads: 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).

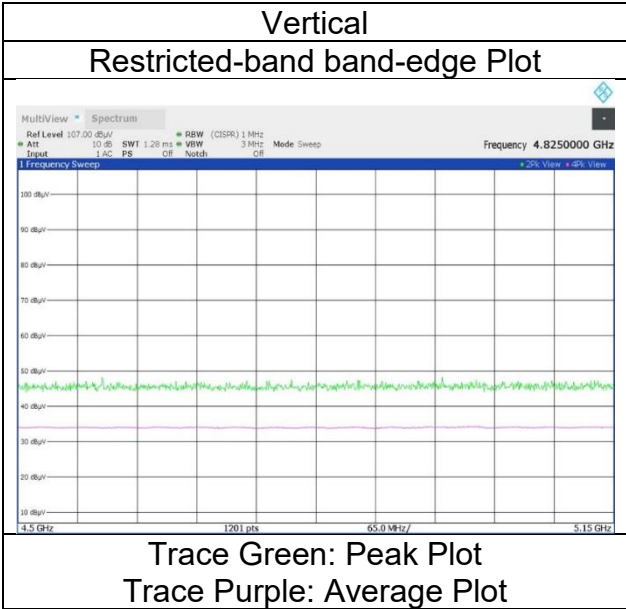
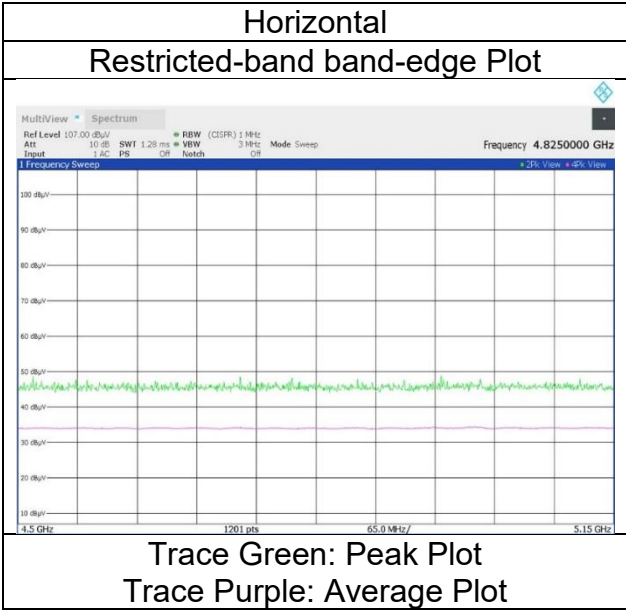
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5180 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5240 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	15720.000	PK	47.26	39.76	-25.94	-	-9.54	51.54	73.9	22.3	150	0	-
Hori.	15720.000	AV	32.55	39.76	-25.94	-	-9.54	36.83	53.9	17.0	150	0	VBW:200 Hz, Floor noise
Vert.	15720.000	PK	46.57	39.76	-25.94	-	-9.54	50.85	73.9	23.0	150	0	-
Vert.	15720.000	AV	32.49	39.76	-25.94	-	-9.54	36.77	53.9	17.1	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other Bands: 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 (3.82 m / 3.0 m) = 2.10 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.	6986.367	PK	53.29	35.60	-33.34	-	2.10	57.65	-37.58	-27.0	10.5	211	55	-	-
Hori.	10480.000	PK	50.31	36.41	-29.36	-	-9.54	47.82	-47.41	-27.0	20.4	124	134	-	-
Vert.	6986.367	PK	52.36	35.60	-33.34	-	2.10	56.72	-38.51	-27.0	11.5	172	41	-	-
Vert.	10480.000	PK	54.00	36.41	-29.36	-	-9.54	51.51	-43.72	-27.0	16.7	143	282	-	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other Bands: 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 (3.82 m / 3.0 m) = 2.10 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	48.52	31.58	-25.29	-	2.10	56.91	73.9	16.9	130	43	-
Hori.	10640.000	PK	48.15	36.99	-29.20	-	-9.54	46.40	73.9	27.5	127	135	-
Hori.	15960.000	PK	46.65	40.07	-26.04	-	-9.54	51.14	73.9	22.7	150	0	-
Hori.	5350.000	AV	35.78	31.58	-25.29	-	2.10	44.17	53.9	9.7	130	43	VBW:200Hz
Hori.	10640.000	AV	33.86	36.99	-29.20	-	-9.54	32.11	53.9	21.7	127	135	VBW:200 Hz
Hori.	15960.000	AV	32.11	40.07	-26.04	-	-9.54	36.60	53.9	17.3	150	0	VBW:200 Hz, Floor noise
Vert.	5350.000	PK	48.96	31.58	-25.29	-	2.10	57.35	73.9	16.5	197	344	-
Vert.	10640.000	PK	50.22	36.99	-29.20	-	-9.54	48.47	73.9	25.4	189	270	-
Vert.	15960.000	PK	46.10	40.07	-26.04	-	-9.54	50.59	73.9	23.3	150	0	-
Vert.	5350.000	AV	34.26	31.58	-25.29	-	2.10	42.65	53.9	11.2	197	344	VBW:200Hz
Vert.	10640.000	AV	35.50	36.99	-29.20	-	-9.54	33.75	53.9	20.1	189	270	VBW:200 Hz
Vert.	15960.000	AV	32.11	40.07	-26.04	-	-9.54	36.60	53.9	17.3	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	7093.018	PK	54.13	36.07	-33.21	-	2.10	59.09	-36.14	-27.0	9.1	209	55	-
Vert.	7093.002	PK	54.41	36.07	-33.21	-	2.10	59.37	-35.86	-27.0	8.8	160	334	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Result (EIRP [dBm]) = $10 \cdot \log((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) \cdot 10^{\wedge}(-6) \cdot \text{Distance} : 3 [\text{m}])^2 / 30 \cdot 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

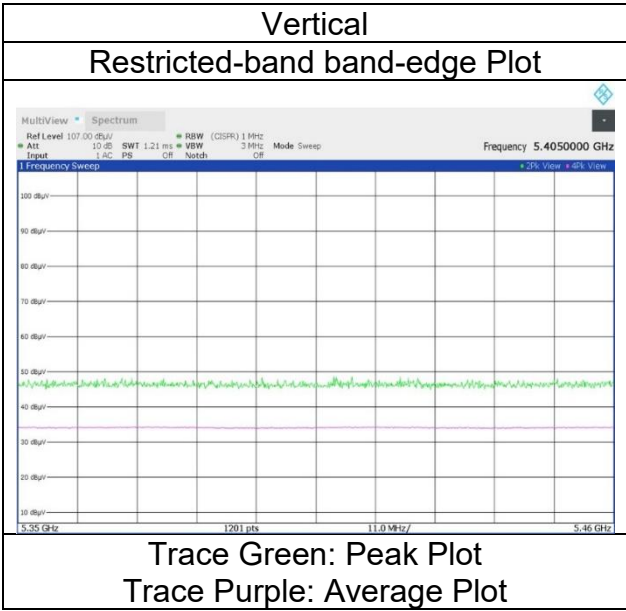
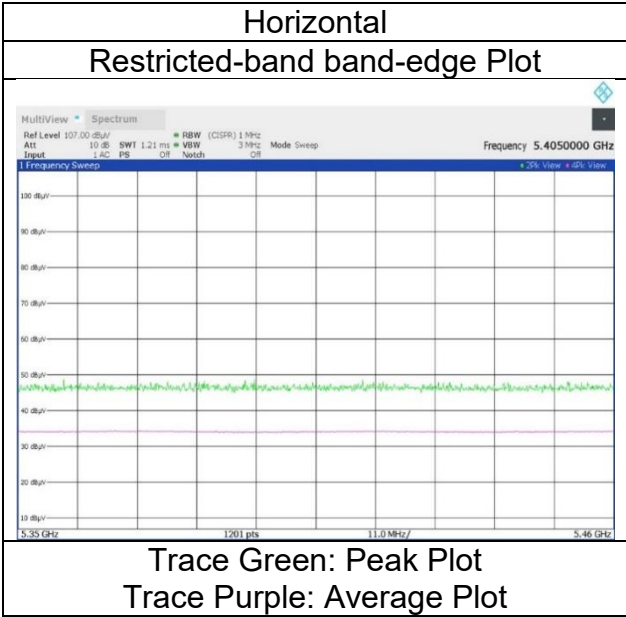
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5320 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	47.98	31.78	-25.16	-	2.10	56.70	73.9	17.2	124	36	-
Hori.	11000.000	PK	47.61	37.43	-28.89	-	-9.54	46.61	73.9	27.2	201	215	-
Hori.	5460.000	AV	35.94	31.78	-25.16	-	2.10	44.66	53.9	9.2	124	36	VBW:200 Hz
Hori.	11000.000	AV	33.09	37.43	-28.89	-	-9.54	32.09	53.9	21.8	201	215	VBW:200 Hz
Vert.	5460.000	PK	48.95	31.78	-25.16	-	2.10	57.67	73.9	16.2	261	338	-
Vert.	11000.000	PK	47.47	37.43	-28.89	-	-9.54	46.47	73.9	27.4	179	269	-
Vert.	5460.000	AV	34.58	31.78	-25.16	-	2.10	43.30	53.9	10.6	261	338	VBW:200 Hz
Vert.	11000.000	AV	33.32	37.43	-28.89	-	-9.54	32.32	53.9	21.5	179	269	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

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

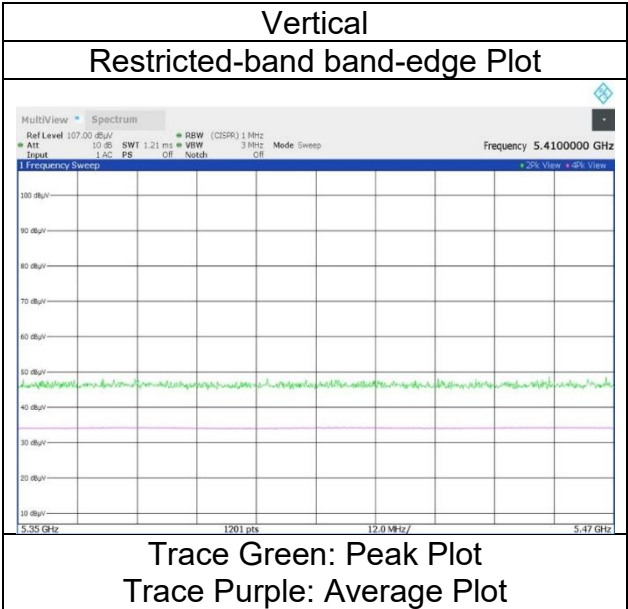
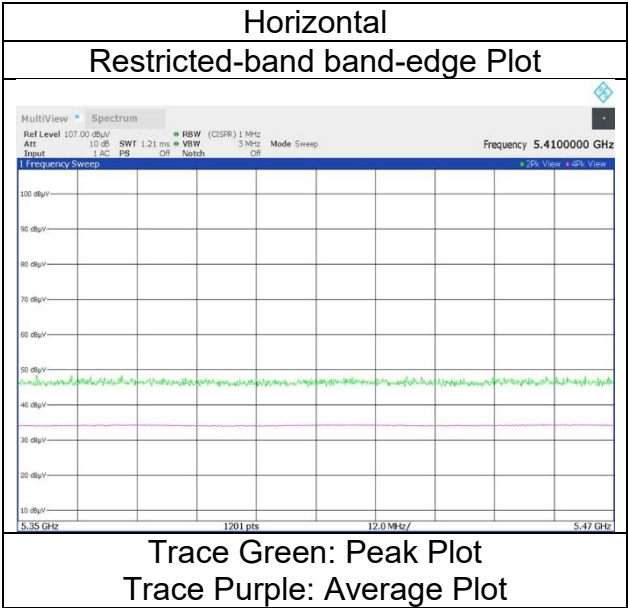
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.29	31.79	-25.15	-	2.10	56.03	-39.20	-27.0	12.2	124	36	-
Hori.	6600.000	PK	50.54	34.30	-33.36	-	2.10	53.58	-41.65	-27.0	14.6	146	51	-
Hori.	16500.000	PK	46.70	39.89	-25.49	-	-9.54	51.56	-43.67	-27.0	16.6	150	0	-
Vert.	5470.000	PK	48.62	31.79	-25.15	-	2.10	57.36	-37.87	-27.0	10.8	261	338	-
Vert.	6600.000	PK	50.89	34.30	-33.36	-	2.10	53.93	-41.30	-27.0	14.3	190	337	-
Vert.	16500.000	PK	46.48	39.89	-25.49	-	-9.54	51.34	-43.89	-27.0	16.8	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = $10 * \log((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3$
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5500 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5580 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11160.000	PK	47.48	37.53	-28.59	0.00	-9.54	46.88	73.9	27.0	150	303	-
Hori.	11160.000	AV	32.76	37.53	-28.59	0.00	-9.54	32.16	53.9	21.7	150	303	VBW:200 Hz
Vert.	11160.000	PK	47.09	37.53	-28.59	0.00	-9.54	46.49	73.9	27.4	157	261	-
Vert.	11160.000	AV	32.43	37.53	-28.59	0.00	-9.54	31.83	53.9	22.0	157	261	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6695.662	PK	50.22	34.33	-33.36	0.00	2.10	53.29	-41.94	-27.0	14.9	144	48	-
Hori.	16740.000	PK	46.48	39.51	-25.06	0.00	-9.54	51.39	-43.84	-27.0	16.8	150	0	-
Vert.	6695.662	PK	50.12	34.33	-33.36	0.00	2.10	53.19	-42.04	-27.0	15.0	183	336	-
Vert.	16740.000	PK	45.89	39.51	-25.06	0.00	-9.54	50.80	-44.43	-27.0	17.4	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11400.000	PK	47.33	37.95	-28.14	-	-9.54	47.60	73.9	26.3	157	312	-
Hori.	11400.000	AV	32.91	37.95	-28.14	-	-9.54	33.18	53.9	20.7	157	312	VBW:200 Hz
Vert.	11400.000	PK	37.01	37.95	-28.14	-	-9.54	37.28	73.9	36.6	155	261	-
Vert.	11400.000	AV	32.61	37.95	-28.14	-	-9.54	32.88	53.9	21.0	155	261	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.76	32.01	-25.06	-	2.10	57.81	-37.42	-27.0	10.4	121	33	-
Hori.	6840.000	PK	50.52	34.75	-33.34	-	2.10	54.03	-41.20	-27.0	14.2	135	63	-
Hori.	17100.000	PK	46.63	39.87	-24.51	-	-9.54	52.45	-42.78	-27.0	15.7	150	0	-
Vert.	5725.000	PK	50.59	32.01	-25.06	-	2.10	59.64	-35.59	-27.0	8.5	211	339	-
Vert.	6840.000	PK	50.53	34.75	-33.34	-	2.10	54.04	-41.19	-27.0	14.1	268	330	-
Vert.	17100.000	PK	47.06	39.87	-24.51	-	-9.54	52.88	-42.35	-27.0	15.3	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]}^{\wedge}2 / 30 * 10^{\wedge}3$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

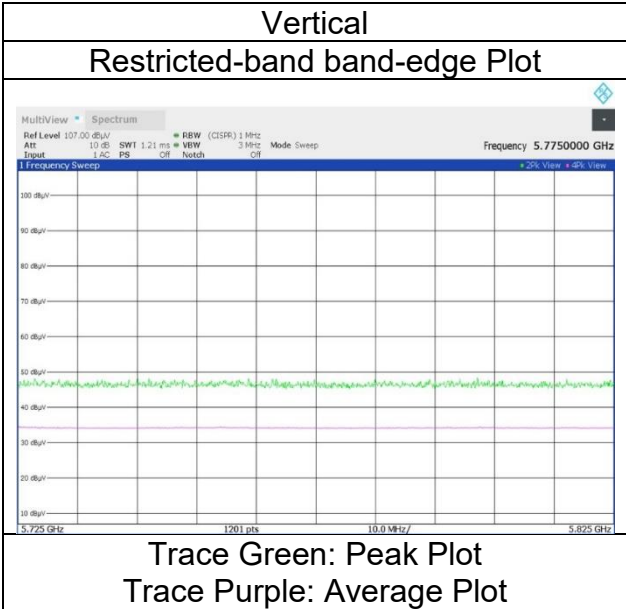
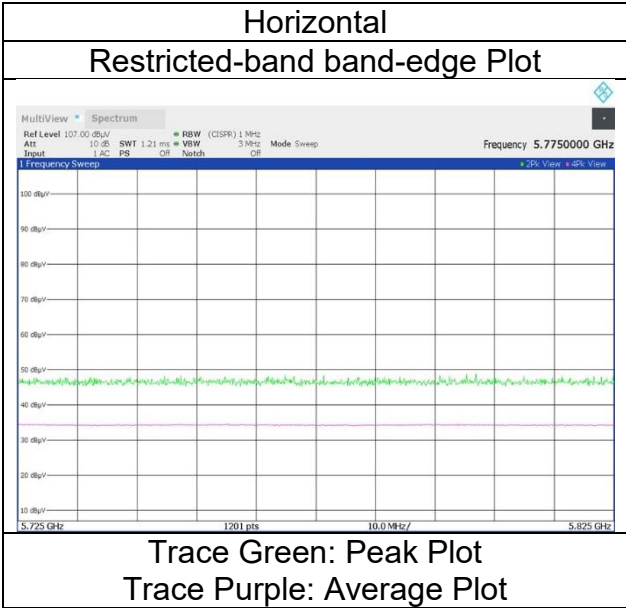
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5700 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1
Date	March 13, 2024	March 13, 2024	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH	19 deg. C / 40 % RH	20 deg. C / 23 % RH
Engineer	Takayuki Kobayashi	Takahiro Suzuki	Miku Ikudome
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-20(OFDM) 5745 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(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.	11490.000	PK	47.37	38.01	-27.96	-	-9.54	47.88	73.9	26.0	155	302	-
Hori.	11490.000	AV	32.82	38.01	-27.96	-	-9.54	33.33	53.9	20.5	155	302	VBW:200 Hz
Vert.	11490.000	PK	37.68	38.01	-27.96	-	-9.54	38.19	73.9	35.7	175	273	-
Vert.	11490.000	AV	32.96	38.01	-27.96	-	-9.54	33.47	53.9	20.4	175	273	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.02	31.84	-25.07	-	2.10	58.89	-36.34	-27.0	9.3	118	33	-
Hori.	5700.000	PK	49.83	31.95	-25.06	-	2.10	58.82	-36.41	10.0	46.4	118	33	-
Hori.	5720.000	PK	50.45	31.99	-25.05	-	2.10	59.49	-35.74	15.6	51.3	118	33	-
Hori.	5725.000	PK	51.89	32.01	-25.06	-	2.10	60.94	-34.29	27.0	61.2	118	33	-
Hori.	6894.000	PK	49.87	35.05	-33.35	-	2.10	53.67	-41.56	-27.0	14.5	187	47	-
Hori.	17235.000	PK	36.42	40.12	-24.42	-	-9.54	42.58	-52.65	-27.0	25.6	150	0	-
Vert.	5650.000	PK	50.15	31.84	-25.07	-	2.10	59.02	-36.21	-27.0	9.2	228	339	-
Vert.	5700.000	PK	49.85	31.95	-25.06	-	2.10	58.84	-36.39	10.0	46.3	228	339	-
Vert.	5720.000	PK	50.25	31.99	-25.05	-	2.10	59.29	-35.94	15.6	51.5	228	339	-
Vert.	5725.000	PK	50.43	32.01	-25.06	-	2.10	59.48	-35.75	27.0	62.7	228	339	-
Vert.	6894.000	PK	50.28	35.05	-33.35	-	2.10	54.08	-41.15	-27.0	14.1	150	64	-
Vert.	17235.000	PK	46.71	40.12	-24.42	-	-9.54	52.87	-42.36	-27.0	15.3	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 * 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

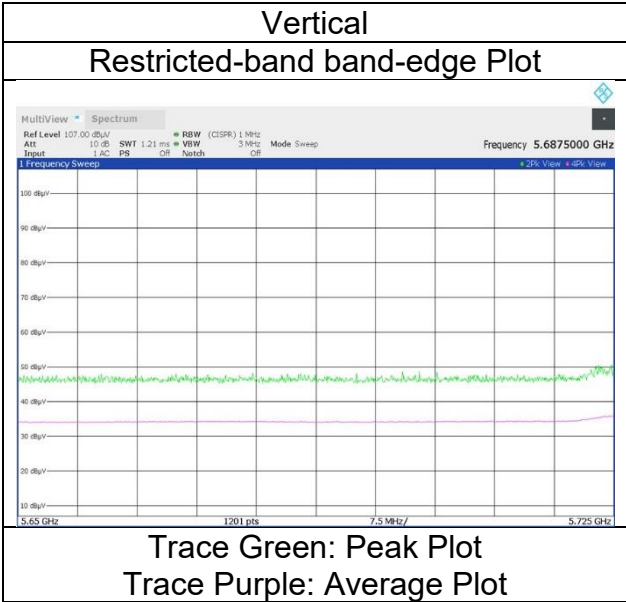
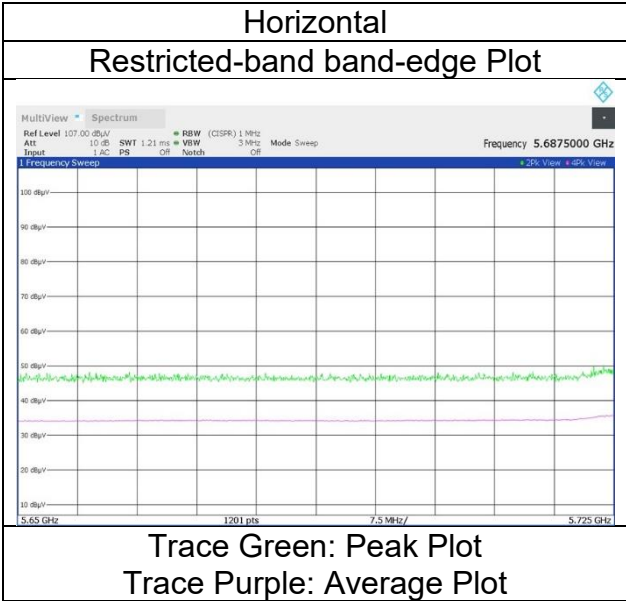
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-20(OFDM) 5745 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5785 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11570.000	PK	48.95	38.03	-27.99	-	-9.54	49.45	73.9	24.4	169	307	-
Hori.	11570.000	AV	34.07	38.03	-27.99	-	-9.54	34.57	53.9	19.3	169	307	VBW:200 Hz
Vert.	11570.000	PK	47.69	38.03	-27.99	-	-9.54	48.19	73.9	25.7	164	264	-
Vert.	11570.000	AV	32.96	38.03	-27.99	-	-9.54	33.46	53.9	20.4	164	264	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	6942.000	PK	48.35	35.34	-33.34	-	2.10	52.45	-42.78	-27.0	15.7	152	48	-
Hori.	17355.000	PK	46.30	40.24	-24.33	-	-9.54	52.67	-42.56	-27.0	15.5	150	0	-
Vert.	6942.000	PK	49.44	35.34	-33.34	-	2.10	53.54	-41.69	-27.0	14.6	151	64	-
Vert.	17355.000	PK	46.50	40.24	-24.33	-	-9.54	52.87	-42.36	-27.0	15.3	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6) * \text{Distance} : 3\text{ [m]})^2 / 30 * 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 13, 2024 March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH 19 deg. C / 40 % RH 20 deg. C / 23 % RH
Engineer Takayuki Kobayashi Takahiro Suzuki Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-20(OFDM) 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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.	11650.000	PK	48.78	38.05	-28.03	-	-9.54	49.26	73.9	24.6	163	307	-
Hori.	11650.000	AV	33.99	38.05	-28.03	-	-9.54	34.47	53.9	19.4	163	307	VBW:200 Hz
Vert.	11650.000	PK	48.24	38.05	-28.03	-	-9.54	48.72	73.9	25.1	148	307	-
Vert.	11650.000	AV	33.30	38.05	-28.03	-	-9.54	33.78	53.9	20.1	148	307	VBW:200 Hz

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.37	32.33	-25.01	-	2.10	59.79	-35.44	27.0	62.4	137	33	-
Hori.	5855.000	PK	50.19	32.34	-25.00	-	2.10	59.63	-35.60	15.6	51.2	137	33	-
Hori.	5875.000	PK	51.27	32.38	-25.00	-	2.10	60.75	-34.48	10.0	44.4	137	33	-
Hori.	5925.000	PK	49.75	32.46	-24.99	-	2.10	59.32	-35.91	-27.0	8.9	137	33	-
Hori.	7766.667	PK	51.07	36.28	-32.42	-	2.10	57.03	-38.20	-27.0	11.2	208	64	-
Hori.	17475.000	PK	45.88	40.28	-24.25	-	-9.54	52.37	-42.86	-27.0	15.8	150	0	-
Vert.	5850.000	PK	50.30	32.33	-25.01	-	2.10	59.72	-35.51	27.0	62.5	215	340	-
Vert.	5855.000	PK	50.37	32.34	-25.00	-	2.10	59.81	-35.42	15.6	51.0	215	340	-
Vert.	5875.000	PK	50.07	32.38	-25.00	-	2.10	59.55	-35.68	10.0	45.6	215	340	-
Vert.	5925.000	PK	49.57	32.46	-24.99	-	2.10	59.14	-36.09	-27.0	9.0	215	340	-
Vert.	7766.667	PK	50.21	36.28	-32.42	-	2.10	56.17	-39.06	-27.0	12.0	150	54	-
Vert.	17475.000	PK	46.89	40.28	-24.25	-	-9.54	53.38	-41.85	-27.0	14.8	150	0	-

1 GHz - 18 GHz: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other Bands: Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 \times \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) \times 10^{\wedge}(-6)) \times \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 \times 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

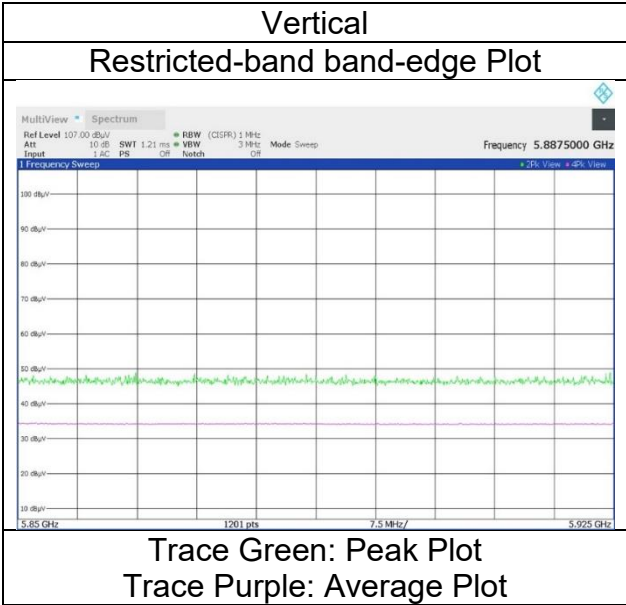
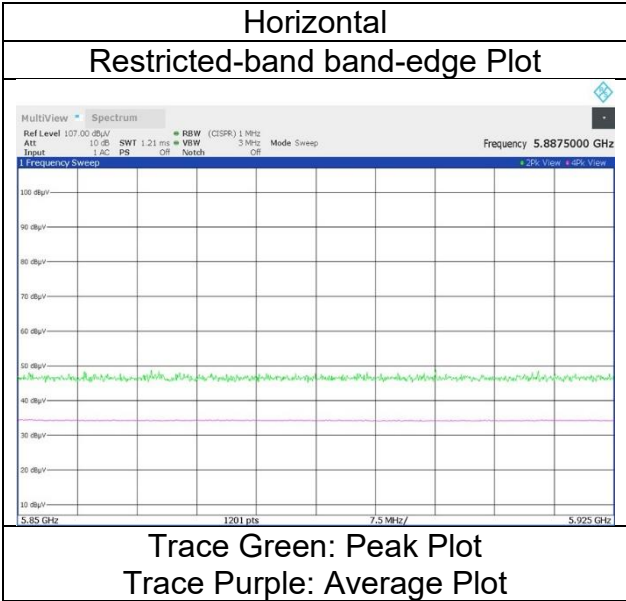
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takayuki Kobayashi
Tx 11ax-20(OFDM) 5825 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 26-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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.	5150.000	PK	49.84	32.09	-25.53		2.10	58.50	73.9	15.4	100	0	-
Hori.	5150.000	AV	35.38	32.09	-25.53		2.10	44.04	53.9	9.8	100	0	VBW: 1 kHz
Vert.	5150.000	PK	47.49	31.86	-25.53		2.10	55.92	73.9	17.9	104	345	-
Vert.	5150.000	AV	34.98	31.86	-25.53		2.10	43.41	53.9	10.4	104	345	VBW: 1 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

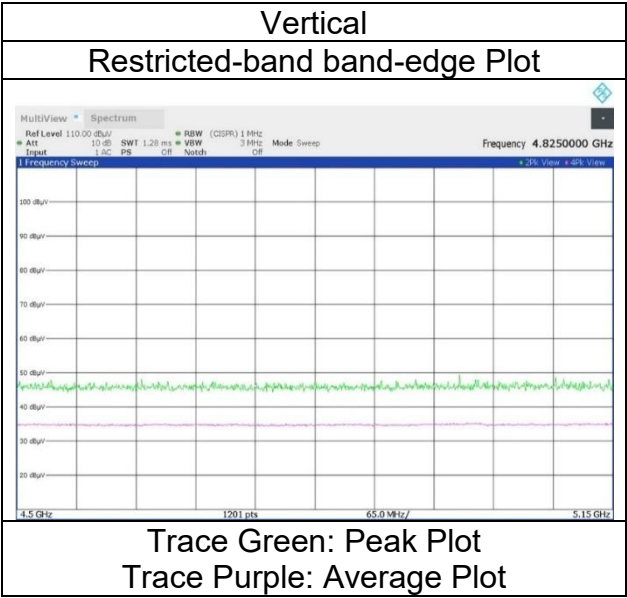
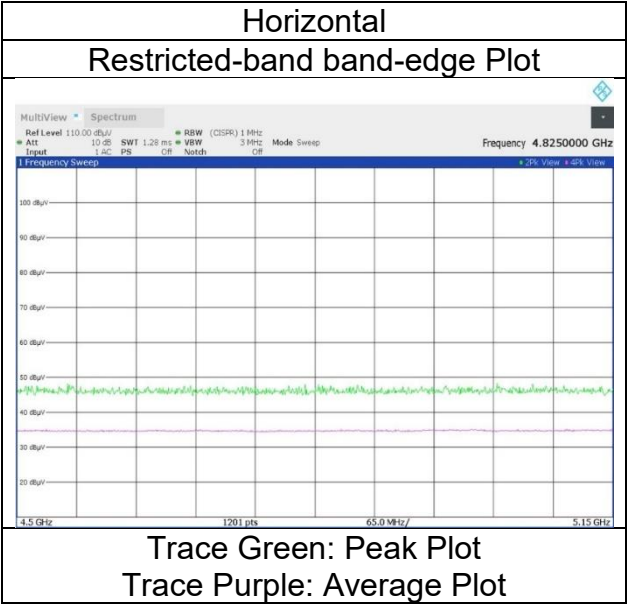
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 26-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 8
(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	49.32	31.84	-25.29		2.10	57.97	73.9	15.9	122	27	-
Hori.	5350.000	AV	35.32	31.84	-25.29		2.10	43.97	53.9	9.9	122	27	VBW: 1 kHz
Vert.	5350.000	PK	46.76	31.58	-25.29		2.10	55.15	73.9	18.7	172	355	-
Vert.	5350.000	AV	34.86	31.58	-25.29		2.10	43.25	53.9	10.6	172	355	VBW: 1 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

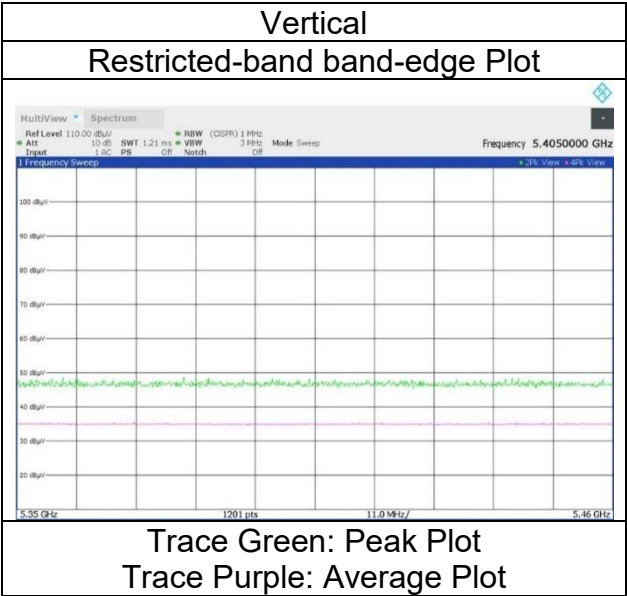
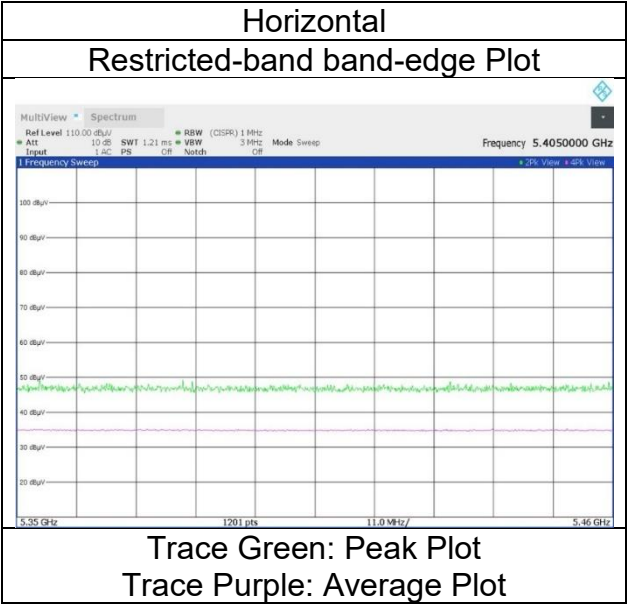
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 8



* 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 WAC1 WAC1
Date April 26, 2024 April 30, 2024
Temperature / Humidity 21 deg. C / 61 % RH 21 deg. C / 69 % RH
Engineer Miku Ikudome Yosuke Murakami
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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	49.12	32.06	-25.16	-	2.10	58.12	73.9	15.7	182	32	-
Hori.	5460.000	AV	35.25	32.06	-25.16	-	2.10	44.25	53.9	9.6	182	32	VBW: 1 kHz
Vert.	5460.000	PK	47.13	31.78	-25.16	-	2.10	55.85	73.9	18.0	267	351	-
Vert.	5460.000	AV	34.79	31.78	-25.16	-	2.10	43.51	53.9	10.3	267	351	VBW: 1 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.15	32.07	-25.15	-	2.10	58.17	-37.06	-27.0	10.0	182	32	-
Vert.	5470.000	PK	46.93	31.79	-25.15	-	2.10	55.67	-39.56	-27.0	12.5	267	351	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

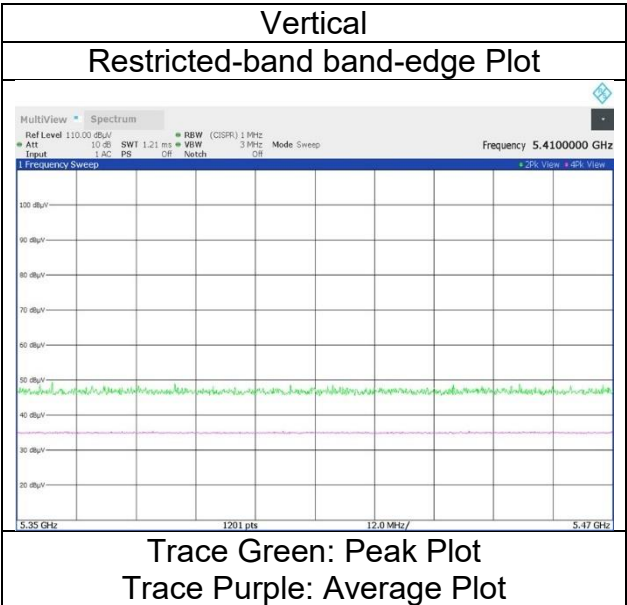
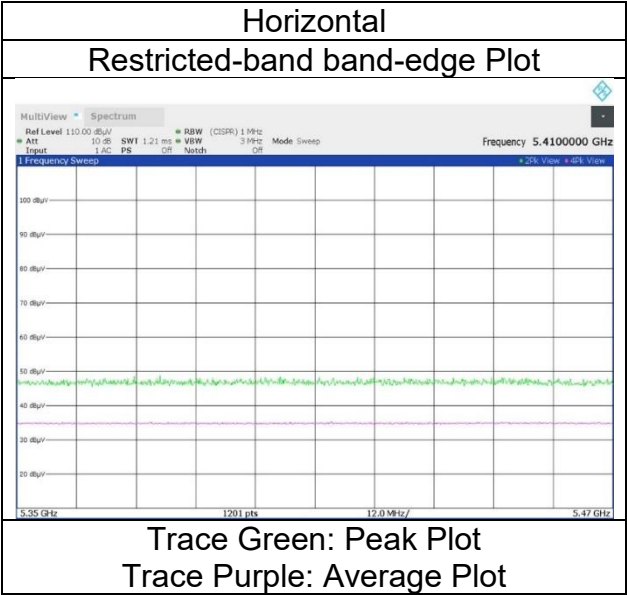
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5500 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 26-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 8
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.62	32.41	-25.06		2.10	59.07	-36.16	-27.0	9.1	122	27	-
Vert.	5725.000	PK	47.44	32.01	-25.06		2.10	56.49	-38.74	-27.0	11.7	171	357	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

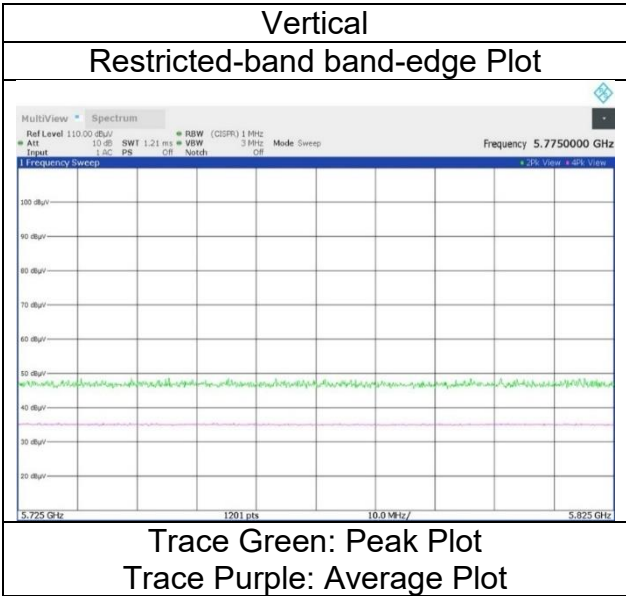
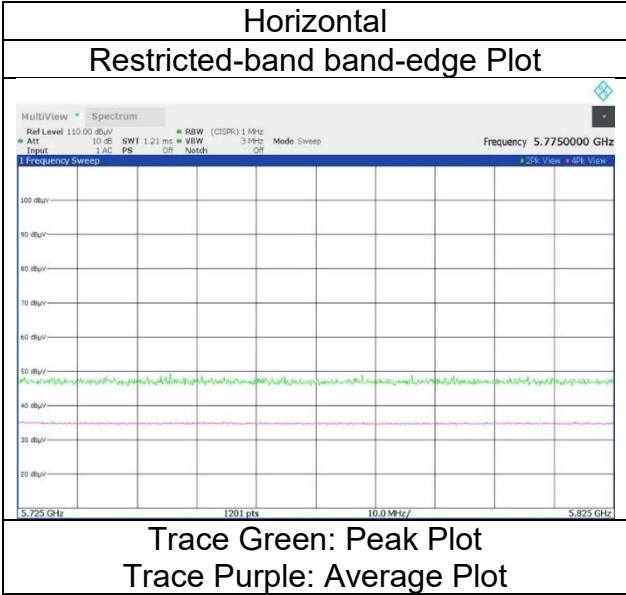
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 8



* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome (1 GHz to 6.4 GHz)	Yosuke Murakami (1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 26-tone 5745 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0

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

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

(PK, Peak, A.V. Average, QP, Qdss=Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.13	32.19	-25.07	-	2.10	58.35	-36.88	-27.0	9.8	122	35	-
Hori.	5700.000	PK	48.98	32.33	-25.06	-	2.10	58.35	-36.88	10.0	46.8	122	35	-
Hori.	5720.000	PK	49.14	32.40	-25.05	-	2.10	58.59	-36.64	15.6	52.2	122	35	-
Hori.	5725.000	PK	49.68	32.41	-25.06	-	2.10	59.13	-36.10	27.0	63.1	122	35	-
Vert.	5650.000	PK	47.49	31.84	-25.07	-	2.10	56.36	-38.87	-27.0	11.8	206	351	-
Vert.	5700.000	PK	47.39	31.95	-25.06	-	2.10	56.38	-38.85	10.0	48.8	206	351	-
Vert.	5720.000	PK	47.56	31.99	-25.05	-	2.10	56.60	-38.63	15.6	54.2	206	351	-
Vert.	5725.000	PK	47.25	32.01	-25.06	-	2.10	56.30	-38.93	27.0	65.9	206	351	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

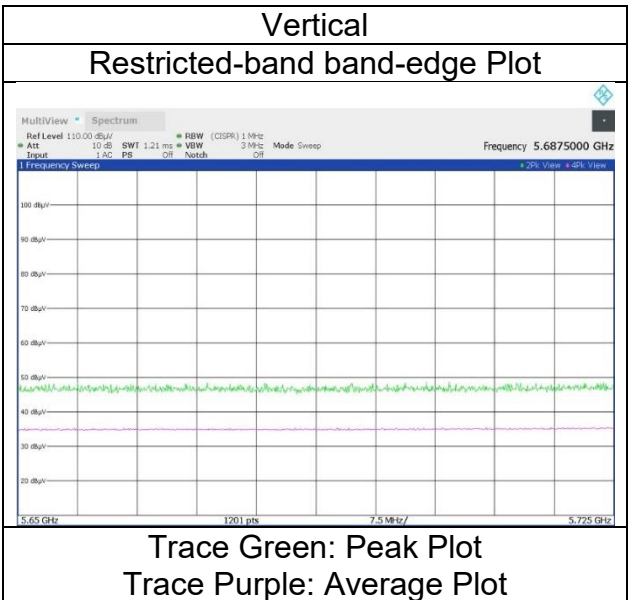
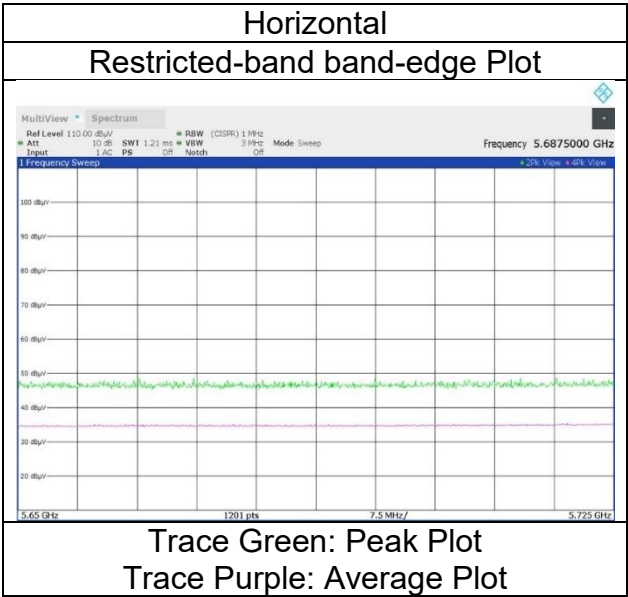
Distance factor : 1 GHz - 10 GHz : $20\log(3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5745 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



* 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 WAC1 WAC1
Date April 26, 2024 April 30, 2024
Temperature / Humidity 21 deg. C / 61 % RH 21 deg. C / 69 % RH
Engineer Miku Ikudome Yosuke Murakami
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 26-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 8
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.04	32.76	-25.01	-	2.10	58.89	-36.34	27.0	63.3	114	28	-
Hori.	5855.000	PK	48.83	32.77	-25.00	-	2.10	58.70	-36.53	15.6	52.1	114	28	-
Hori.	5875.000	PK	49.02	32.81	-25.00	-	2.10	58.93	-36.30	10.0	46.3	114	28	-
Hori.	5925.000	PK	48.67	32.88	-24.99	-	2.10	58.66	-36.57	-27.0	9.5	114	28	-
Vert.	5850.000	PK	46.70	32.33	-25.01	-	2.10	56.12	-39.11	27.0	66.1	134	358	-
Vert.	5855.000	PK	49.27	32.34	-25.00	-	2.10	58.71	-36.52	15.6	52.1	134	358	-
Vert.	5875.000	PK	46.47	32.38	-25.00	-	2.10	55.95	-39.28	10.0	49.2	134	358	-
Vert.	5925.000	PK	47.39	32.46	-24.99	-	2.10	56.96	-38.27	-27.0	11.2	134	358	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

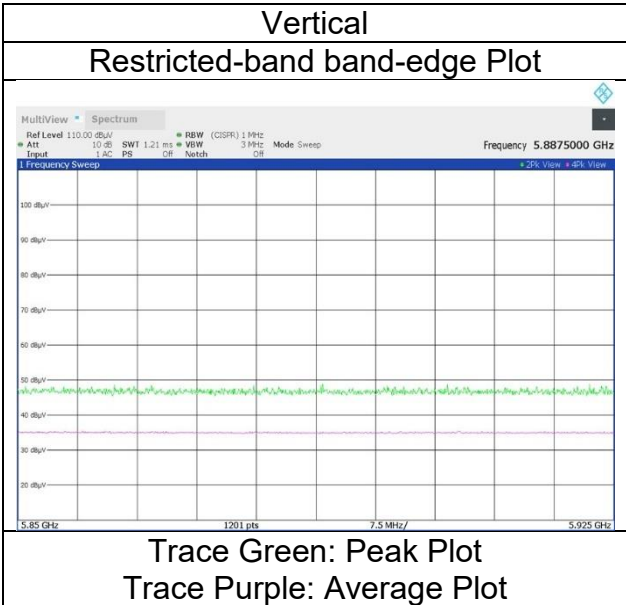
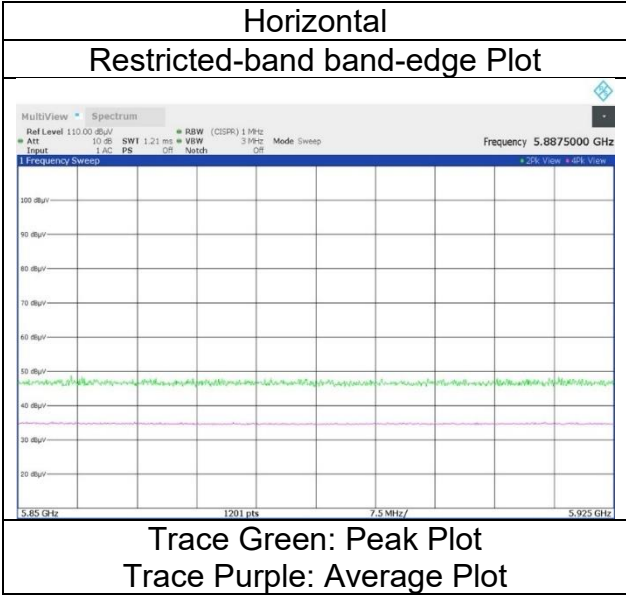
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 26-tone 5825 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 52-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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.	5150.000	PK	48.85	32.09	-25.53		2.10	57.51	73.9	16.3	126	35	-
Hori.	5150.000	AV	35.80	32.09	-25.53		2.10	44.46	53.9	9.4	126	35	VBW: 2 kHz
Vert.	5150.000	PK	46.89	31.86	-25.53		2.10	55.32	73.9	18.5	165	343	-
Vert.	5150.000	AV	35.54	31.86	-25.53		2.10	43.97	53.9	9.9	165	343	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

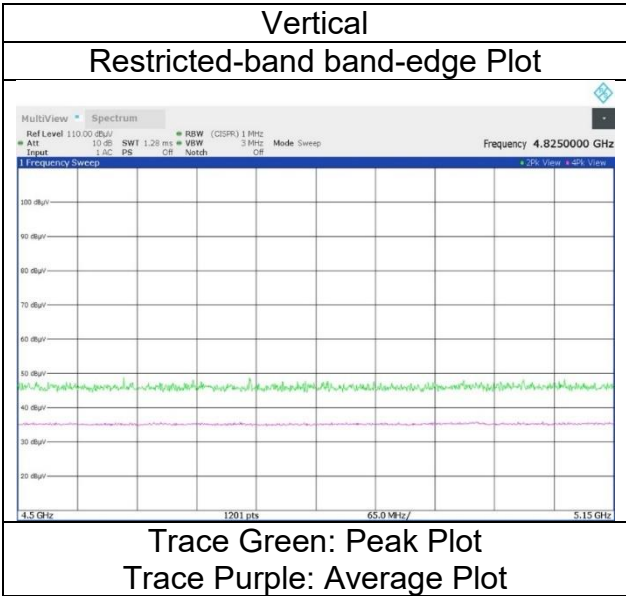
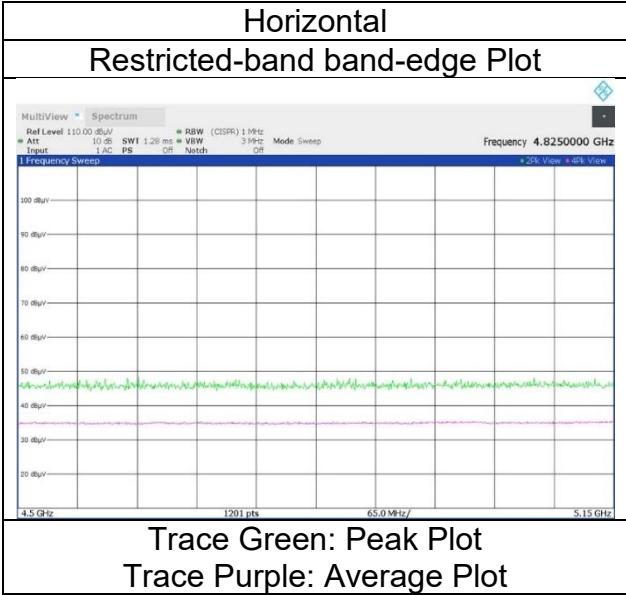
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 52-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 40
(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	49.61	31.84	-25.29		2.10	58.26	73.9	15.6	181	41	-
Hori.	5350.000	AV	35.86	31.84	-25.29		2.10	44.51	53.9	9.3	181	41	VBW: 2 kHz
Vert.	5350.000	PK	47.98	31.58	-25.29		2.10	56.37	73.9	17.5	171	332	-
Vert.	5350.000	AV	35.57	31.58	-25.29		2.10	43.96	53.9	9.9	171	332	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

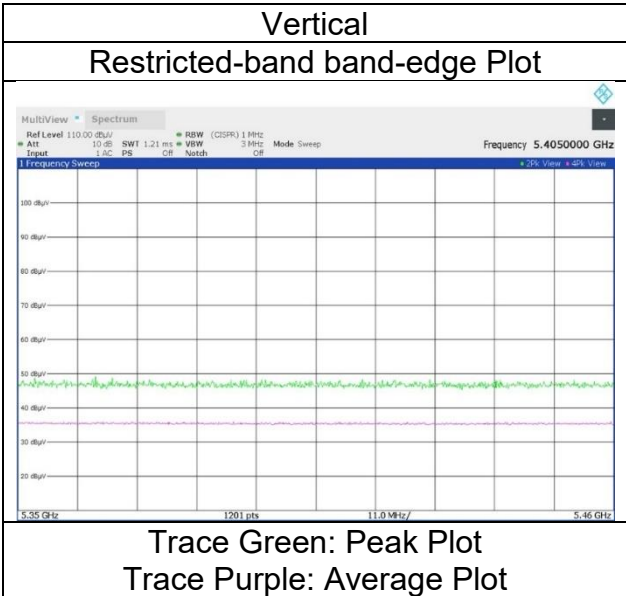
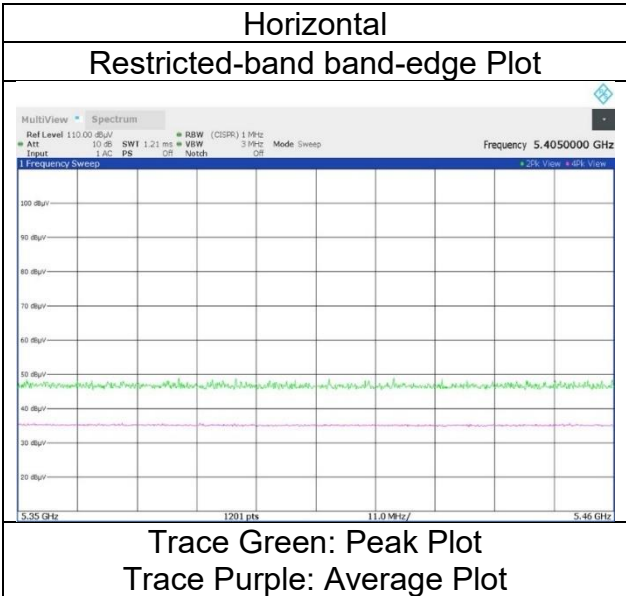
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 April 30, 2024
Temperature / Humidity 21 deg. C / 61 % RH 21 deg. C / 69 % RH
Engineer Miku Ikudome Yosuke Murakami
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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	48.99	32.06	-25.16	-	2.10	57.99	73.9	15.9	184	32	-
Hori.	5460.000	AV	35.83	32.06	-25.16	-	2.10	44.83	53.9	9.0	184	32	VBW: 2 kHz
Vert.	5460.000	PK	47.28	31.78	-25.16	-	2.10	56.00	73.9	17.9	163	345	-
Vert.	5460.000	AV	35.32	31.78	-25.16	-	2.10	44.04	53.9	9.8	163	345	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.99	32.07	-25.15	-	2.10	58.01	-37.22	-27.0	10.2	184	32	-
Vert.	5470.000	PK	47.58	31.79	-25.15	-	2.10	56.32	-38.91	-27.0	11.9	163	345	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

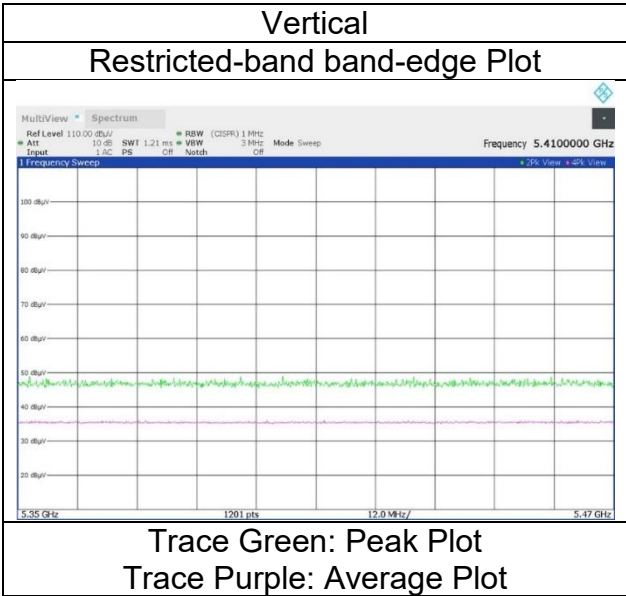
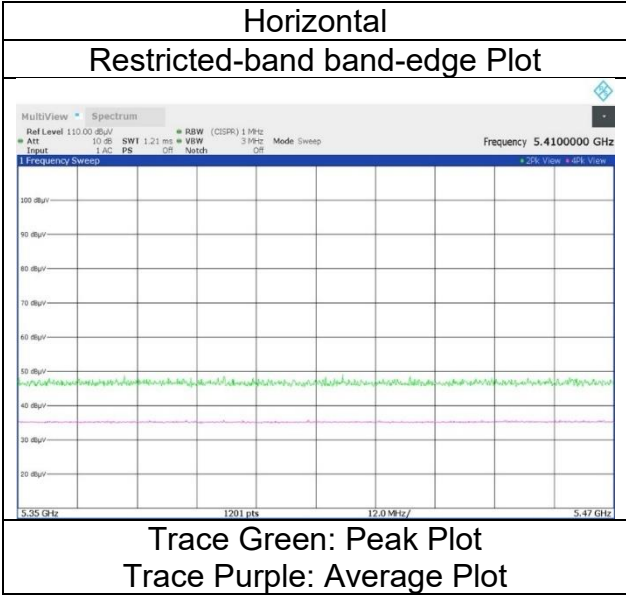
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5500 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 52-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 40
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.62	32.41	-25.06		2.10	59.07	-36.16	-27.0	9.1	129	28	-
Vert.	5725.000	PK	47.09	32.01	-25.06		2.10	56.14	-39.09	-27.0	12.0	231	355	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

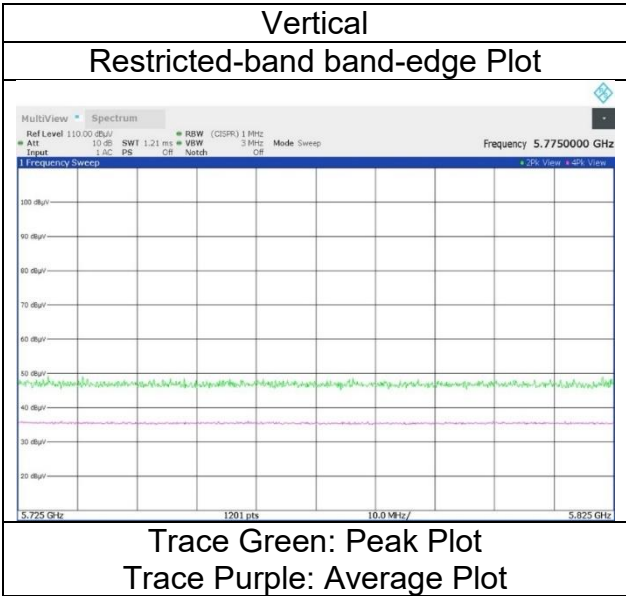
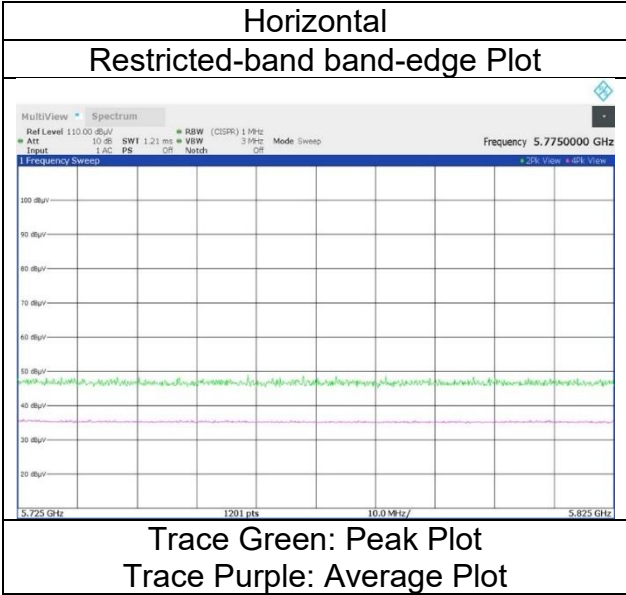
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 April 30, 2024
Temperature / Humidity 21 deg. C / 61 % RH 21 deg. C / 69 % RH
Engineer Miku Ikudome Yosuke Murakami
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.64	32.19	-25.07	-	2.10	57.86	-37.37	-27.0	10.3	122	33	-
Hori.	5700.000	PK	48.61	32.33	-25.06	-	2.10	57.98	-37.25	10.0	47.2	122	33	-
Hori.	5720.000	PK	49.48	32.40	-25.05	-	2.10	58.93	-36.30	15.6	51.9	122	33	-
Hori.	5725.000	PK	49.66	32.41	-25.06	-	2.10	59.11	-36.12	27.0	63.1	122	33	-
Vert.	5650.000	PK	46.77	31.84	-25.07	-	2.10	55.64	-39.59	-27.0	12.5	205	351	-
Vert.	5700.000	PK	46.39	31.95	-25.06	-	2.10	55.38	-39.85	10.0	49.8	205	351	-
Vert.	5720.000	PK	47.63	31.99	-25.05	-	2.10	56.67	-38.56	15.6	54.1	205	351	-
Vert.	5725.000	PK	47.79	32.01	-25.06	-	2.10	56.84	-38.39	27.0	65.3	205	351	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

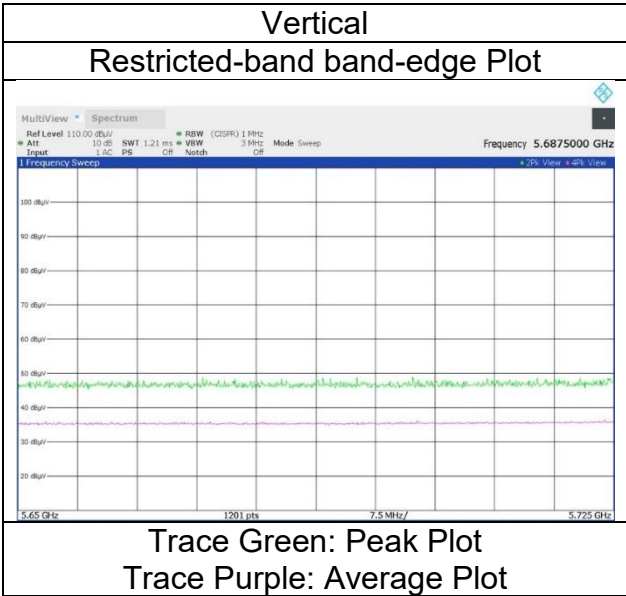
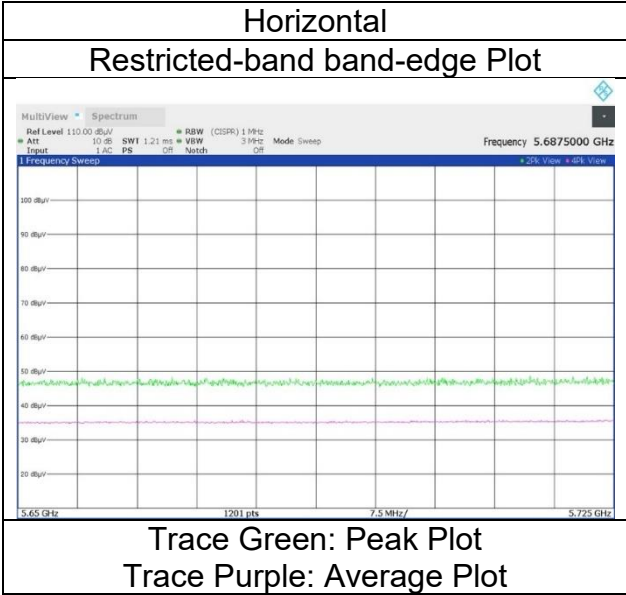
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5745 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 April 30, 2024
Temperature / Humidity 21 deg. C / 61 % RH 21 deg. C / 69 % RH
Engineer Miku Ikudome Yosuke Murakami
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 52-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 40
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.42	32.76	-25.01	-	2.10	59.27	-35.96	27.0	62.9	116	29	-
Hori.	5855.000	PK	49.18	32.77	-25.00	-	2.10	59.05	-36.18	15.6	51.7	116	29	-
Hori.	5875.000	PK	49.41	32.81	-25.00	-	2.10	59.32	-35.91	10.0	45.9	116	29	-
Hori.	5925.000	PK	48.57	32.88	-24.99	-	2.10	58.56	-36.67	-27.0	9.6	116	29	-
Vert.	5850.000	PK	47.64	32.33	-25.01	-	2.10	57.06	-38.17	27.0	65.1	135	355	-
Vert.	5855.000	PK	47.02	32.34	-25.00	-	2.10	56.46	-38.77	15.6	54.3	135	355	-
Vert.	5875.000	PK	48.16	32.38	-25.00	-	2.10	57.64	-37.59	10.0	47.5	135	355	-
Vert.	5925.000	PK	47.56	32.46	-24.99	-	2.10	57.13	-38.10	-27.0	11.1	135	355	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

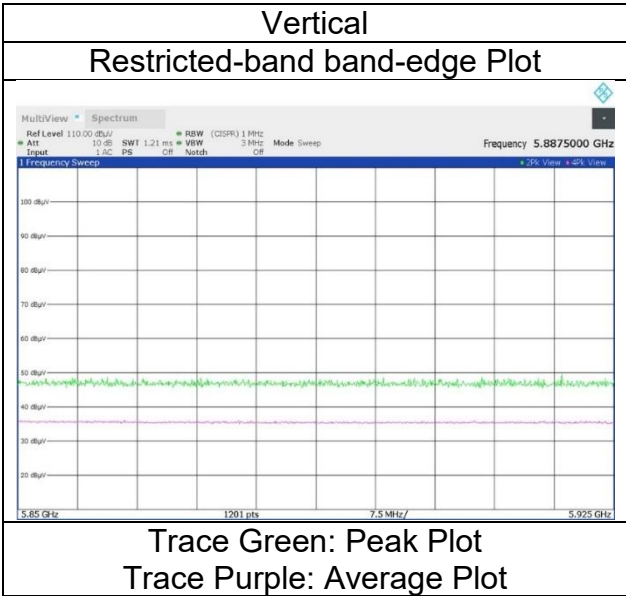
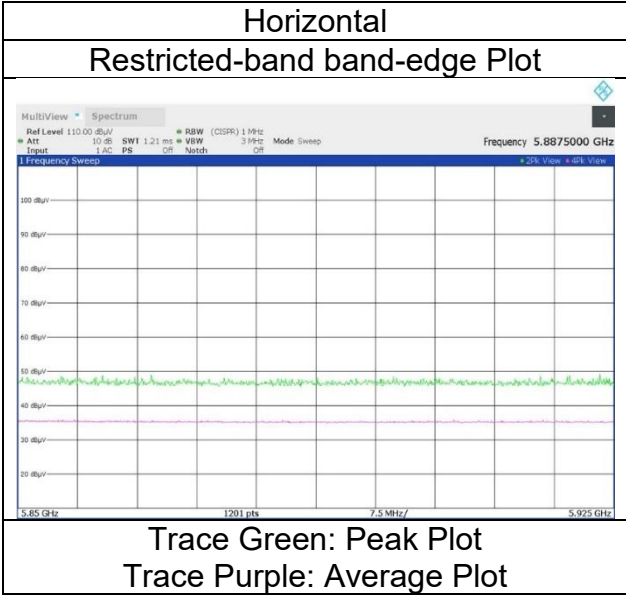
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	April 30, 2024
Temperature / Humidity	21 deg. C / 61 % RH	21 deg. C / 69 % RH
Engineer	Miku Ikudome	Yosuke Murakami
Mode	Tx 11ax-20(OFDMA) 52-tone 5825 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome (1 GHz to 6.4 GHz)	Hiromasa Sato (1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 106-tone 5180 MHz	
Antenna type	5G CH 0: monopole 5G CH 1: slot	

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(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	49.06	32.09	-25.53	-	2.10	57.72	73.9	16.1	139	40	-
Hori.	5150.000	AV	36.42	32.09	-25.53	-	2.10	45.08	53.9	8.8	139	40	VBW: 3 kHz
Vert.	5150.000	PK	47.10	31.86	-25.53	-	2.10	55.53	73.9	18.3	146	339	-
Vert.	5150.000	AV	35.91	31.86	-25.53	-	2.10	44.34	53.9	9.5	146	339	VBW: 3 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

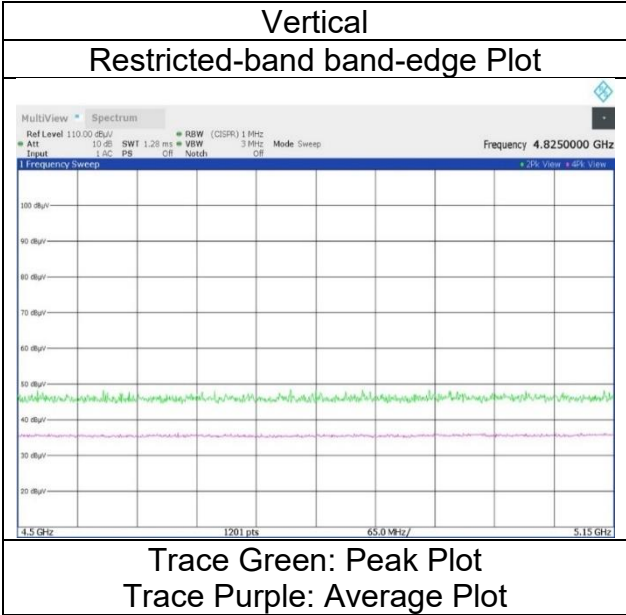
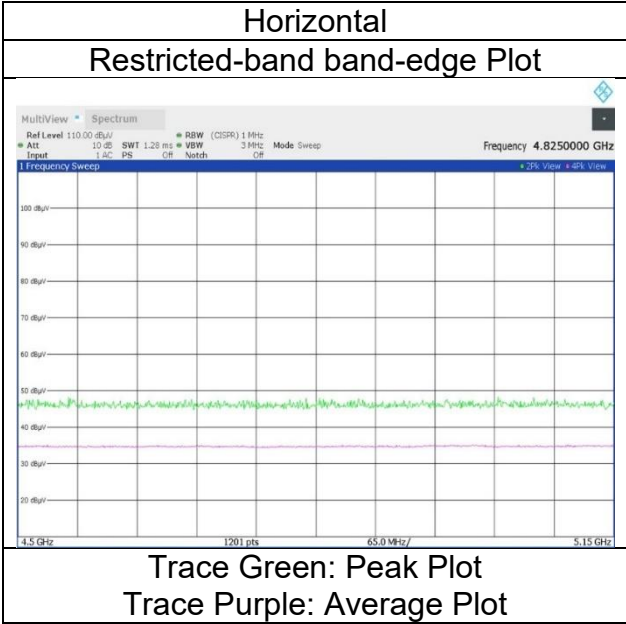
Distance factor : 1 GHz - 10 GHz : $20\log(3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 106-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 54
(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	48.83	31.84	-25.29	-	2.10	57.48	73.9	16.4	140	36	-
Hori.	5350.000	AV	36.01	31.84	-25.29	-	2.10	44.66	53.9	9.2	140	36	VBW: 3 kHz
Vert.	5350.000	PK	47.82	31.58	-25.29	-	2.10	56.21	73.9	17.6	146	331	-
Vert.	5350.000	AV	35.86	31.58	-25.29	-	2.10	44.25	53.9	9.6	146	331	VBW: 3 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

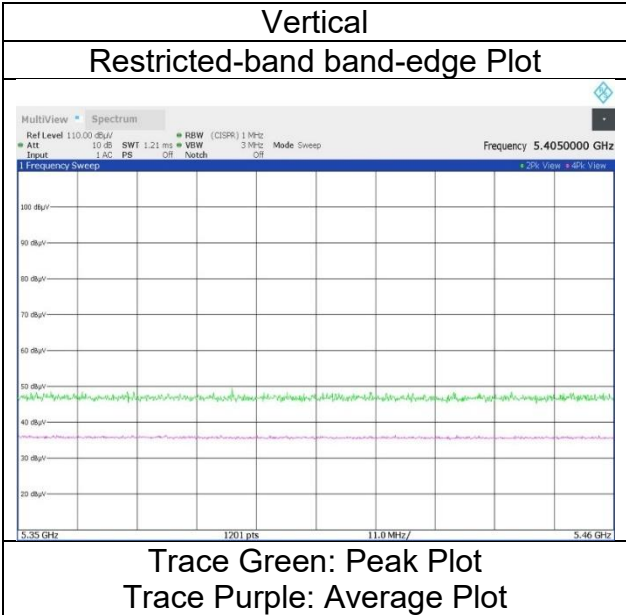
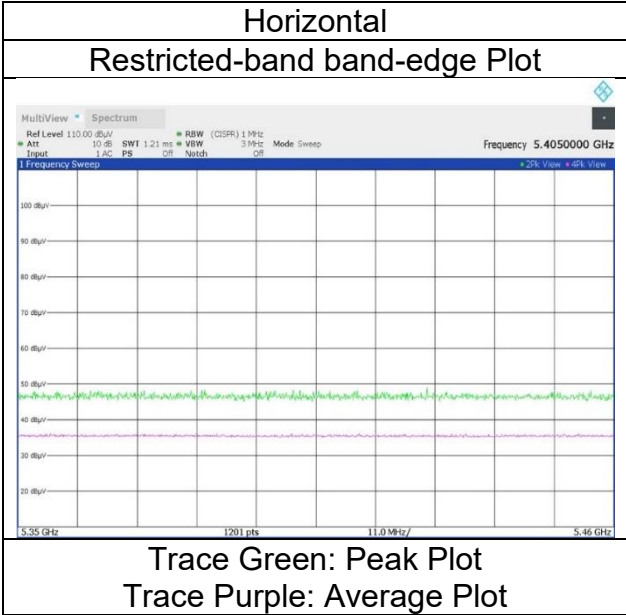
Distance factor : 1 GHz - 10 GHz : $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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	49.04	32.06	-25.16	-	2.10	58.04	73.9	15.8	135	39	-
Hori.	5460.000	AV	36.03	32.06	-25.16	-	2.10	45.03	53.9	8.8	135	39	VBW: 3 kHz
Vert.	5460.000	PK	48.18	31.78	-25.16	-	2.10	56.90	73.9	17.0	129	341	-
Vert.	5460.000	AV	35.74	31.78	-25.16	-	2.10	44.46	53.9	9.4	129	341	VBW: 3 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.88	32.07	-25.15	-	2.10	56.90	-38.33	-27.0	11.3	135	39	-
Vert.	5470.000	PK	47.32	31.79	-25.15	-	2.10	56.06	-39.17	-27.0	12.1	129	341	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

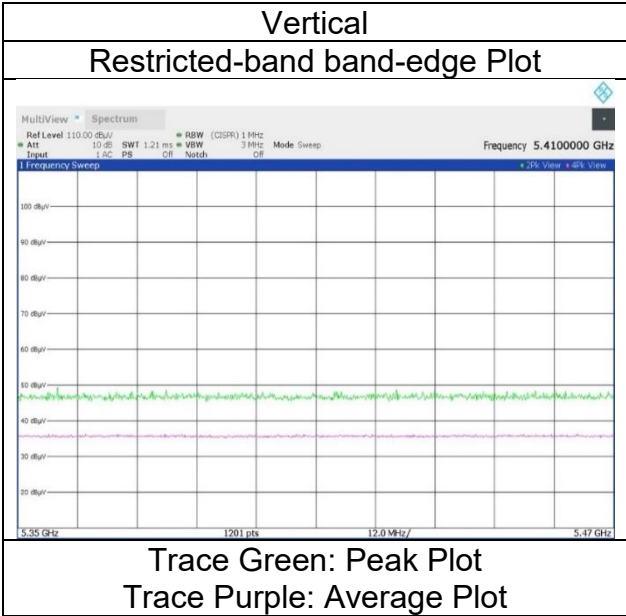
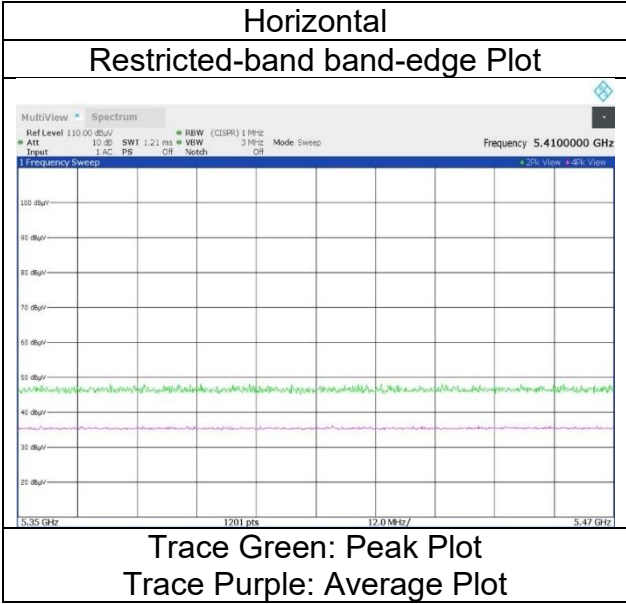
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5500 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 54
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.67	32.41	-25.06		2.10	58.12	-37.11	-27.0	10.1	135	26	-
Vert.	5725.000	PK	48.13	32.01	-25.06		2.10	57.18	-38.05	-27.0	11.0	133	337	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

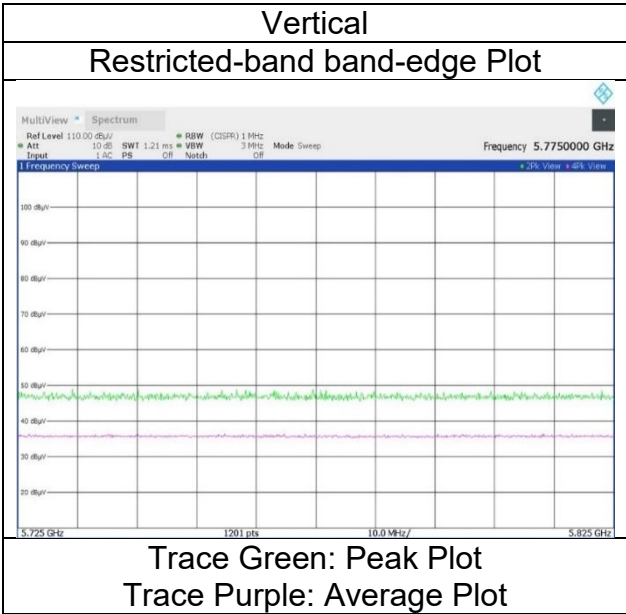
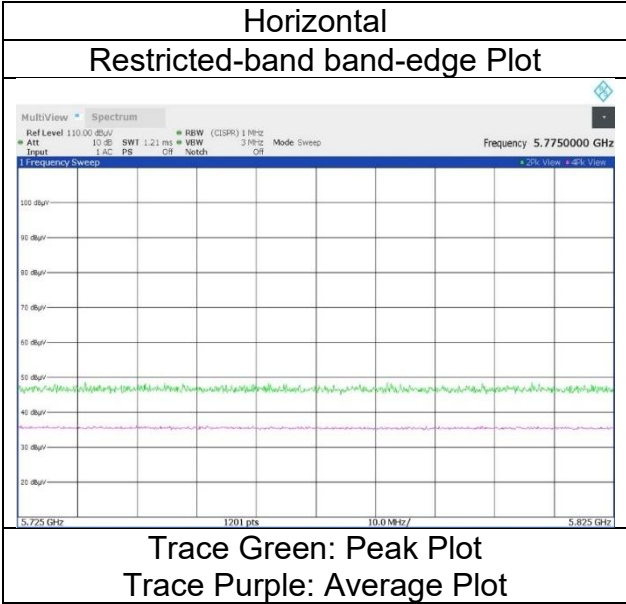
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.29	32.19	-25.07	-	2.10	57.51	-37.72	-27.0	10.7	145	27	-
Hori.	5700.000	PK	48.10	32.33	-25.06	-	2.10	57.47	-37.76	10.0	47.7	145	27	-
Hori.	5720.000	PK	48.92	32.40	-25.05	-	2.10	58.37	-36.86	15.6	52.4	145	27	-
Hori.	5725.000	PK	48.70	32.41	-25.06	-	2.10	58.15	-37.08	27.0	64.0	145	27	-
Vert.	5650.000	PK	47.23	31.84	-25.07	-	2.10	56.10	-39.13	-27.0	12.1	196	359	-
Vert.	5700.000	PK	47.16	31.95	-25.06	-	2.10	56.15	-39.08	10.0	49.0	196	359	-
Vert.	5720.000	PK	47.98	31.99	-25.05	-	2.10	57.02	-38.21	15.6	53.8	196	359	-
Vert.	5725.000	PK	47.72	32.01	-25.06	-	2.10	56.77	-38.46	27.0	65.4	196	359	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

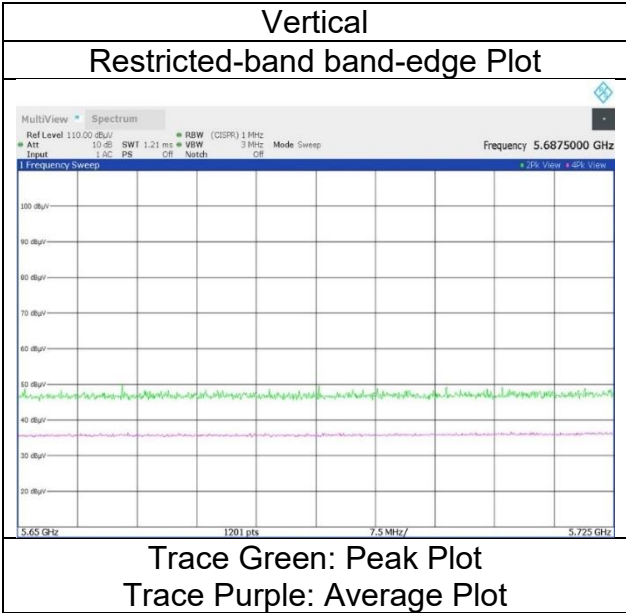
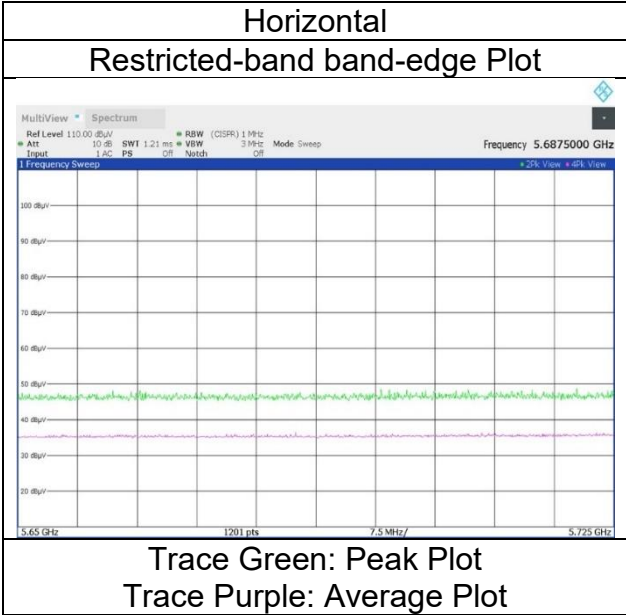
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5745 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 106-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 54
(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.05	32.76	-25.01	-	2.10	57.90	-37.33	27.0	64.3	142	43	-
Hori.	5855.000	PK	49.18	32.77	-25.00	-	2.10	59.05	-36.18	15.6	51.7	142	43	-
Hori.	5875.000	PK	48.50	32.81	-25.00	-	2.10	58.41	-36.82	10.0	46.8	142	43	-
Hori.	5925.000	PK	48.55	32.88	-24.99	-	2.10	58.54	-36.69	-27.0	9.6	142	43	-
Vert.	5850.000	PK	47.14	32.33	-25.01	-	2.10	56.56	-38.67	27.0	65.6	200	347	-
Vert.	5855.000	PK	47.30	32.34	-25.00	-	2.10	56.74	-38.49	15.6	54.0	200	347	-
Vert.	5875.000	PK	46.93	32.38	-25.00	-	2.10	56.41	-38.82	10.0	48.8	200	347	-
Vert.	5925.000	PK	47.09	32.46	-24.99	-	2.10	56.66	-38.57	-27.0	11.5	200	347	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

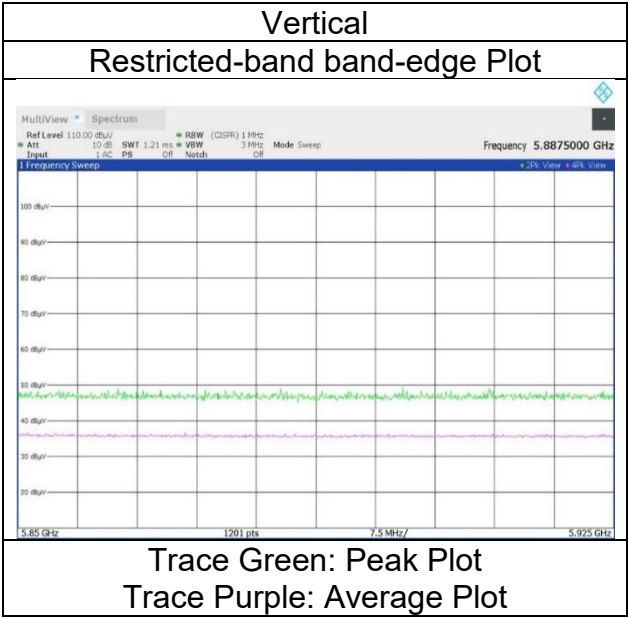
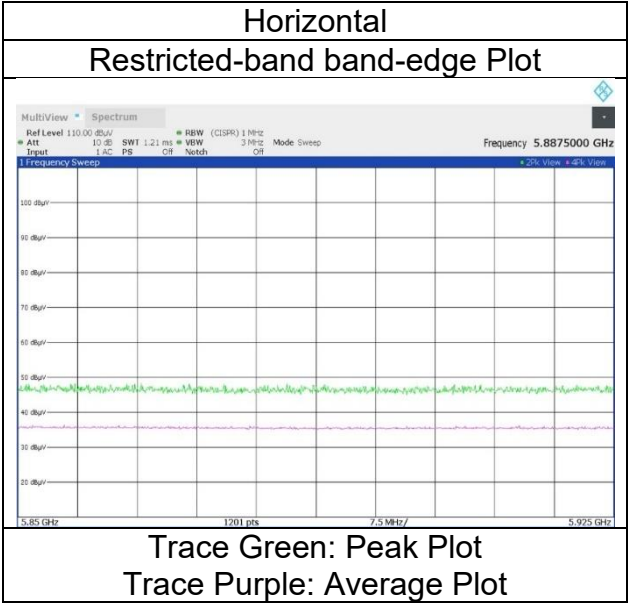
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 106-tone 5825 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome (1 GHz to 6.4 GHz)	Hiromasa Sato (1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 242-tone 5180 MHz	
Antenna type	5G CH 0: monopole 5G CH 1: slot	

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(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	48.55	32.09	-25.53	-	2.10	57.21	73.9	16.6	149	40	-
Hori.	5150.000	AV	35.12	32.09	-25.53	-	2.10	43.78	53.9	10.1	149	40	VBW: 2 kHz
Vert.	5150.000	PK	47.42	31.86	-25.53	-	2.10	55.85	73.9	18.0	126	338	-
Vert.	5150.000	AV	35.47	31.86	-25.53	-	2.10	43.90	53.9	10.0	126	338	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

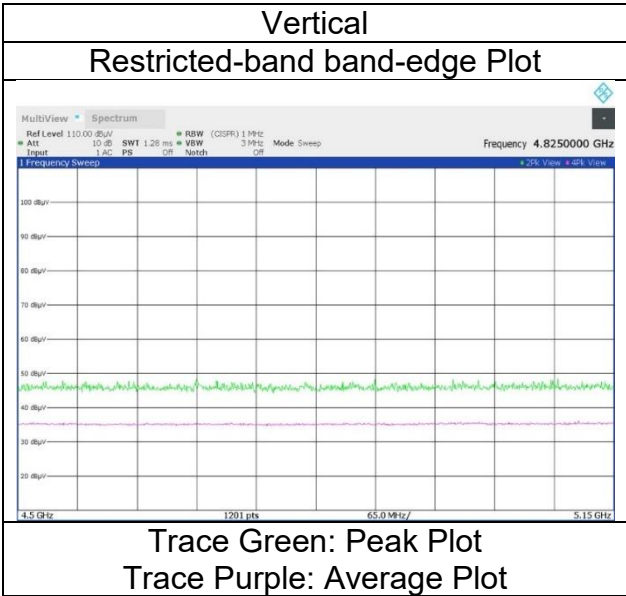
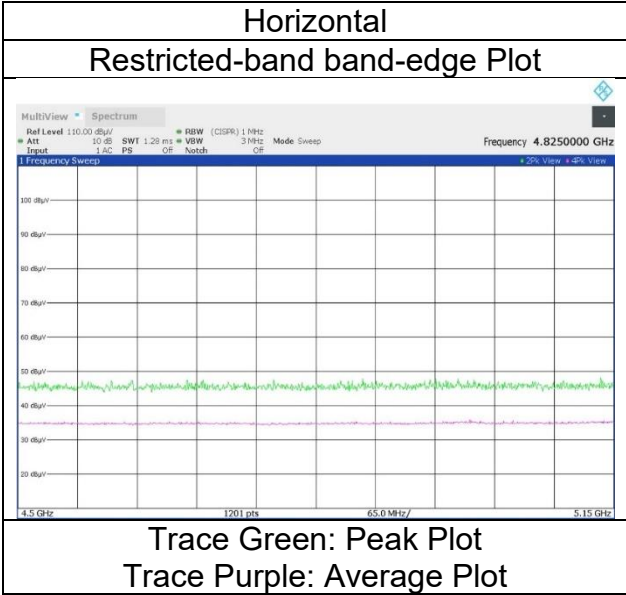
Distance factor : 1 GHz - 10 GHz : $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 242-tone 5180 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 242-tone 5320 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 61
(above 1 GHz Inside of the restricted band)

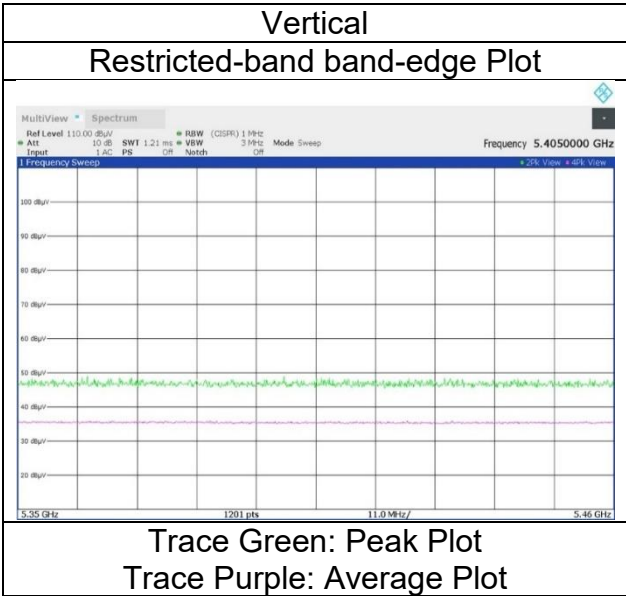
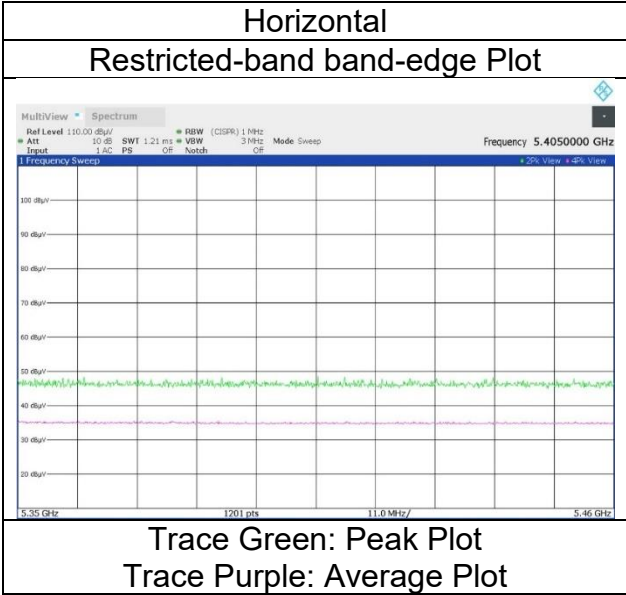
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.93	31.84	-25.29	-	2.10	57.58	73.9	16.3	142	33	-
Hori.	5350.000	AV	35.52	31.84	-25.29	-	2.10	44.17	53.9	9.7	142	33	VBW: 2 kHz
Vert.	5350.000	PK	47.27	31.58	-25.29	-	2.10	55.66	73.9	18.2	149	342	-
Vert.	5350.000	AV	35.30	31.58	-25.29	-	2.10	43.69	53.9	10.2	149	342	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : 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 (3.82 m / 3.0 m) = 2.10 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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 242-tone 5320 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 242-tone 5500 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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	48.50	32.06	-25.16	-	2.10	57.50	73.9	16.4	146	45	-
Hori.	5460.000	AV	35.29	32.06	-25.16	-	2.10	44.29	53.9	9.6	146	45	VBW: 2 kHz
Vert.	5460.000	PK	47.03	31.78	-25.16	-	2.10	55.75	73.9	18.1	122	348	-
Vert.	5460.000	AV	35.27	31.78	-25.16	-	2.10	43.99	53.9	9.9	122	348	VBW: 2 kHz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.16	32.07	-25.15	-	2.10	57.18	-38.05	-27.0	11.0	146	45	-
Vert.	5470.000	PK	47.29	31.79	-25.15	-	2.10	56.03	-39.20	-27.0	12.2	122	348	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

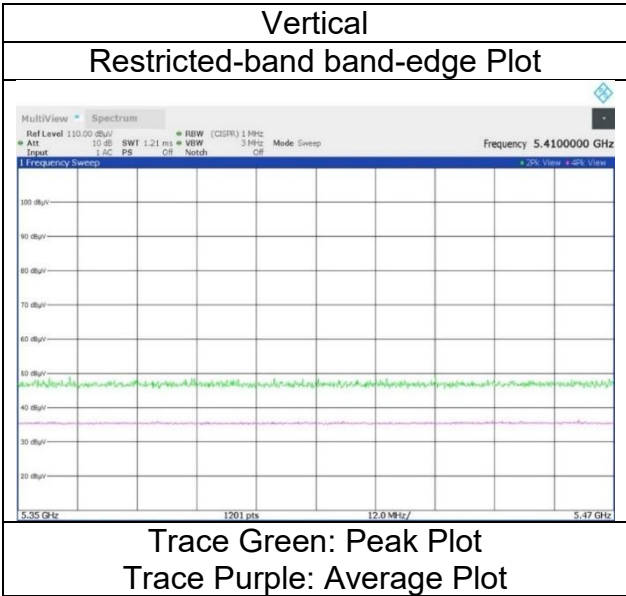
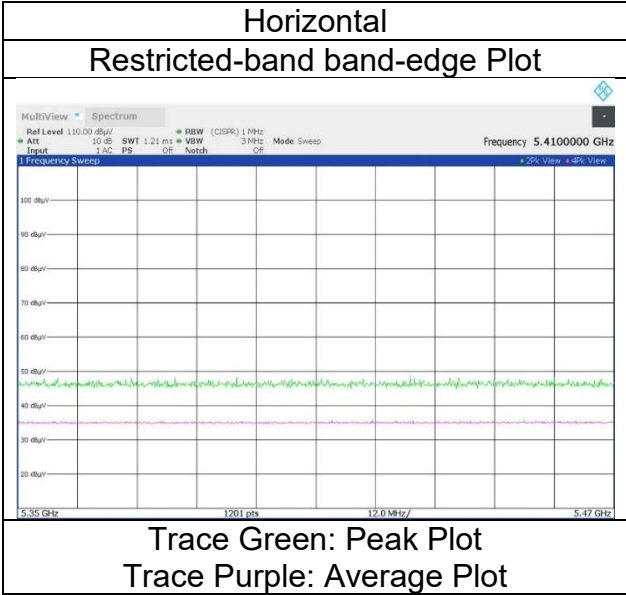
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 242-tone 5500 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 242-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.87	32.41	-25.06		2.10	58.32	-36.91	-27.0	9.9	147	26	-
Vert.	5725.000	PK	47.23	32.01	-25.06		2.10	56.28	-38.95	-27.0	11.9	229	359	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

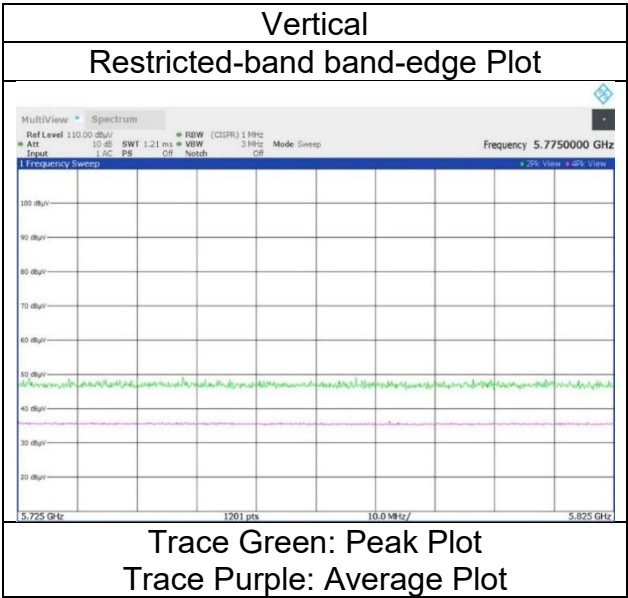
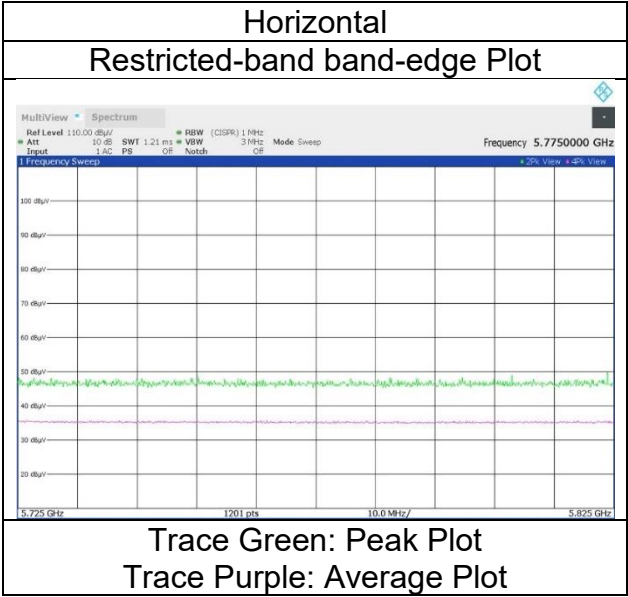
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 242-tone 5700 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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 WAC1 WAC1
Date April 26, 2024 May 2, 2024
Temperature / Humidity 21 deg. C / 61 % RH 22 deg. C / 67 % RH
Engineer Miku Ikudome Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 242-tone 5745 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.29	32.19	-25.07	-	2.10	57.51	-37.72	-27.0	10.7	145	27	-
Hori.	5700.000	PK	48.10	32.33	-25.06	-	2.10	57.47	-37.76	10.0	47.7	145	27	-
Hori.	5720.000	PK	48.92	32.40	-25.05	-	2.10	58.37	-36.86	15.6	52.4	145	27	-
Hori.	5725.000	PK	48.70	32.41	-25.06	-	2.10	58.15	-37.08	27.0	64.0	145	27	-
Vert.	5650.000	PK	47.07	31.84	-25.07	-	2.10	55.94	-39.29	-27.0	12.2	206	357	-
Vert.	5700.000	PK	46.77	31.95	-25.06	-	2.10	55.76	-39.47	10.0	49.4	206	357	-
Vert.	5720.000	PK	47.17	31.99	-25.05	-	2.10	56.21	-39.02	15.6	54.6	206	357	-
Vert.	5725.000	PK	47.08	32.01	-25.06	-	2.10	56.13	-39.10	27.0	66.1	206	357	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

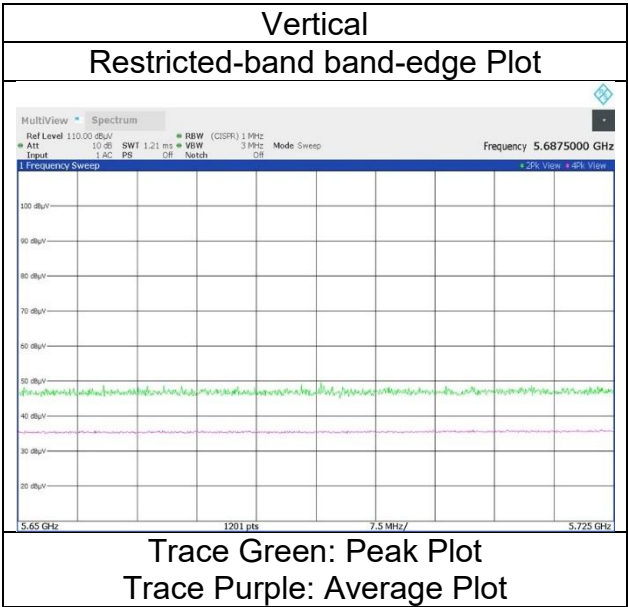
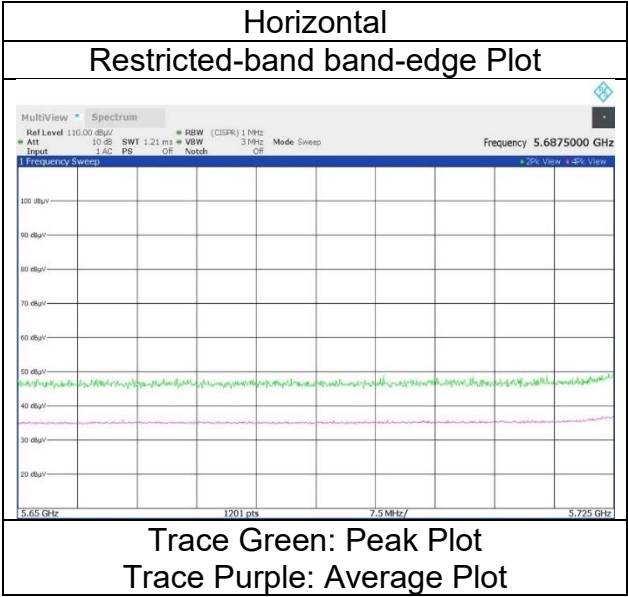
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 242-tone 5745 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-20(OFDMA) 242-tone 5825 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.10	32.76	-25.01	-	2.10	57.95	-37.28	27.0	64.2	138	28	-
Hori.	5855.000	PK	49.06	32.77	-25.00	-	2.10	58.93	-36.30	15.6	51.9	138	28	-
Hori.	5875.000	PK	48.34	32.81	-25.00	-	2.10	58.25	-36.98	10.0	46.9	138	28	-
Hori.	5925.000	PK	48.13	32.88	-24.99	-	2.10	58.12	-37.11	-27.0	10.1	138	28	-
Vert.	5850.000	PK	47.66	32.33	-25.01	-	2.10	57.08	-38.15	27.0	65.1	230	356	-
Vert.	5855.000	PK	47.64	32.34	-25.00	-	2.10	57.08	-38.15	15.6	53.7	230	356	-
Vert.	5875.000	PK	46.81	32.38	-25.00	-	2.10	56.29	-38.94	10.0	48.9	230	356	-
Vert.	5925.000	PK	47.64	32.46	-24.99	-	2.10	57.21	-38.02	-27.0	11.0	230	356	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

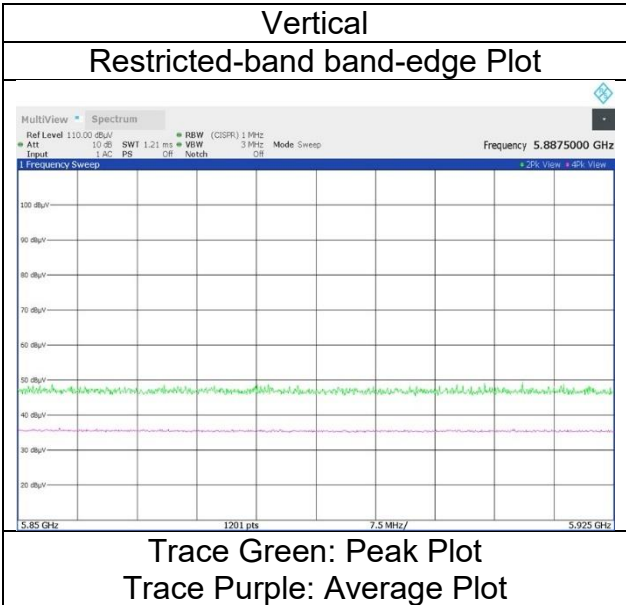
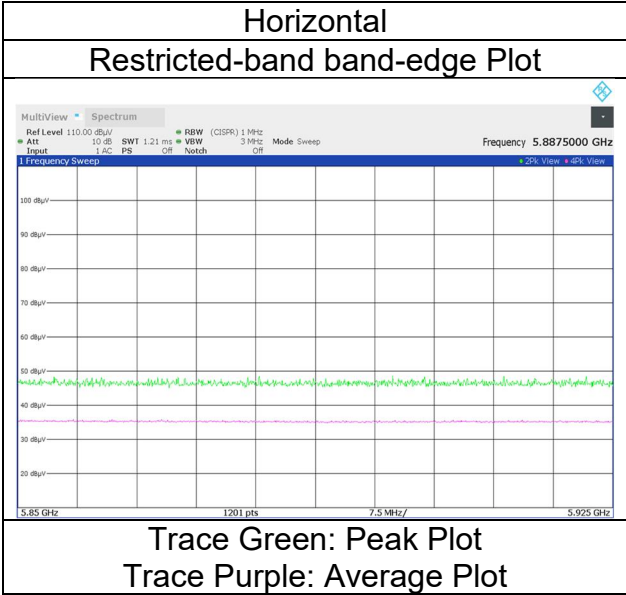
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 26, 2024	May 2, 2024
Temperature / Humidity	21 deg. C / 61 % RH	22 deg. C / 67 % RH
Engineer	Miku Ikudome	Hiromasa Sato
Mode	Tx 11ax-20(OFDMA) 242-tone 5825 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5190 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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	48.97	31.86	-25.53	-	2.10	57.40	73.9	16.5	166	49	-
Hori.	15570.000	PK	47.66	39.60	-25.88	-	-9.54	51.84	73.9	22.0	150	0	-
Hori.	5150.000	AV	34.72	31.86	-25.53	-	2.10	43.15	53.9	10.7	166	49	VBW:200 Hz
Hori.	15570.000	AV	34.62	39.60	-25.88	-	-9.54	38.80	53.9	15.1	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	49.26	31.86	-25.53	-	2.10	57.69	73.9	16.2	234	354	-
Vert.	15570.000	PK	48.69	39.60	-25.88	-	-9.54	52.87	73.9	21.0	150	0	-
Vert.	5150.000	AV	34.90	31.86	-25.53	-	2.10	43.33	53.9	10.5	234	354	VBW:200 Hz
Vert.	15570.000	AV	34.45	39.60	-25.88	-	-9.54	38.63	53.9	15.2	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	6919.958	PK	52.79	35.22	-33.35	-	2.10	56.76	-38.47	-27.0	11.4	165	57	-
Hori.	10380.000	PK	50.69	36.26	-29.53	-	-9.54	47.88	-47.35	-27.0	20.3	142	128	-
Vert.	6919.993	PK	51.95	35.22	-33.35	-	2.10	55.92	-39.31	-27.0	12.3	186	337	-
Vert.	10380.000	PK	51.35	36.26	-29.53	-	-9.54	48.54	-46.69	-27.0	19.6	148	257	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 + \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]})^2 / 30 * 10^{\wedge}3)$

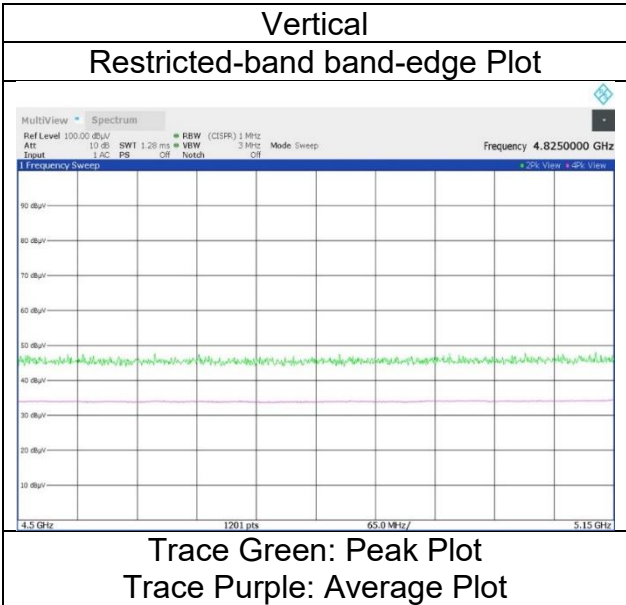
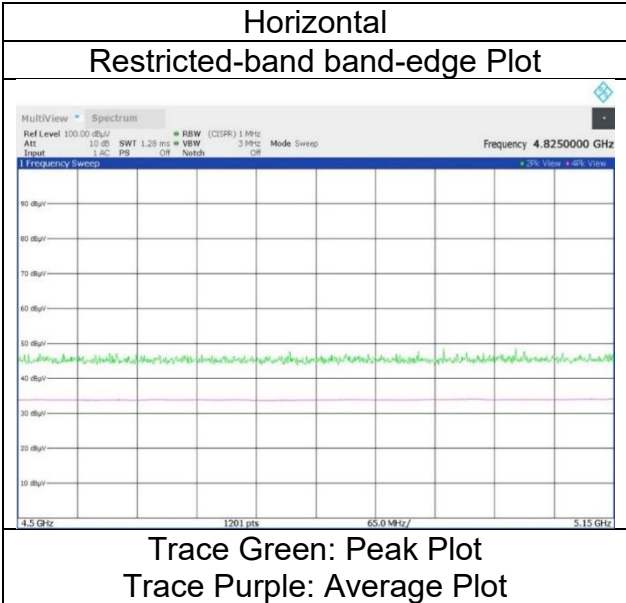
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40 5190 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa	Yohsuke Matsuzawa	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5230 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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.	15690.000	PK	47.63	39.72	-25.93	-	-9.54	51.88	73.9	22.0	150	0	-
Hori.	15690.000	AV	34.83	39.72	-25.93	-	-9.54	39.08	53.9	14.8	150	0	VBW:200 Hz, Floor noise
Vert.	15690.000	PK	48.20	39.72	-25.93	-	-9.54	52.45	73.9	21.4	150	0	-
Vert.	15690.000	AV	34.85	39.72	-25.93	-	-9.54	39.10	53.9	14.8	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	6973.258	PK	53.38	35.53	-33.34	-	2.10	57.67	-37.56	-27.0	10.5	183	57	-
Hori.	10460.000	PK	49.56	36.37	-29.39	-	-9.54	47.00	-48.23	-27.0	21.2	176	114	-
Vert.	6973.289	PK	52.05	35.53	-33.34	-	2.10	56.34	-38.89	-27.0	11.8	183	338	-
Vert.	10460.000	PK	50.37	36.37	-29.39	-	-9.54	47.81	-47.42	-27.0	20.4	156	295	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6) * \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa	Yohsuke Matsuzawa	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5310 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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	49.36	31.58	-25.29	-	2.10	57.75	73.9	16.1	155	44	-
Hori.	10620.000	PK	48.85	36.91	-29.22	-	-9.54	47.00	73.9	26.9	145	124	-
Hori.	15930.000	PK	47.57	40.05	-26.02	-	-9.54	52.06	73.9	21.8	150	164	-
Hori.	5350.000	AV	35.26	31.58	-25.29	-	2.10	43.65	53.9	10.2	155	44	VBW:200 Hz
Hori.	10620.000	AV	34.61	36.91	-29.22	-	-9.54	32.76	53.9	21.1	145	124	VBW:200 Hz
Hori.	15930.000	AV	33.60	40.05	-26.02	-	-9.54	38.09	53.9	15.8	150	164	VBW:200 Hz, Floor noise
Vert.	5350.000	PK	49.20	31.58	-25.29	-	2.10	57.59	73.9	16.3	187	348	-
Vert.	10620.000	PK	49.35	36.91	-29.22	-	-9.54	47.50	73.9	26.4	253	141	-
Vert.	15930.000	PK	48.26	40.05	-26.02	-	-9.54	52.75	73.9	21.1	150	0	-
Vert.	5350.000	AV	36.18	31.58	-25.29	-	2.10	44.57	53.9	9.3	187	348	VBW:200 Hz
Vert.	10620.000	AV	35.33	36.91	-29.22	-	-9.54	33.48	53.9	20.4	253	141	VBW:200 Hz
Vert.	15930.000	AV	34.64	40.05	-26.02	-	-9.54	39.13	53.9	14.7	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 (3.82 m / 3.0 m) = 2.10 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.	7079.942	PK	50.89	36.03	-33.23	-	2.10	55.79	-39.44	-27.0	12.4	179	57	-
Vert.	7079.968	PK	52.62	36.03	-33.23	-	2.10	57.52	-37.71	-27.0	10.7	165	329	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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)

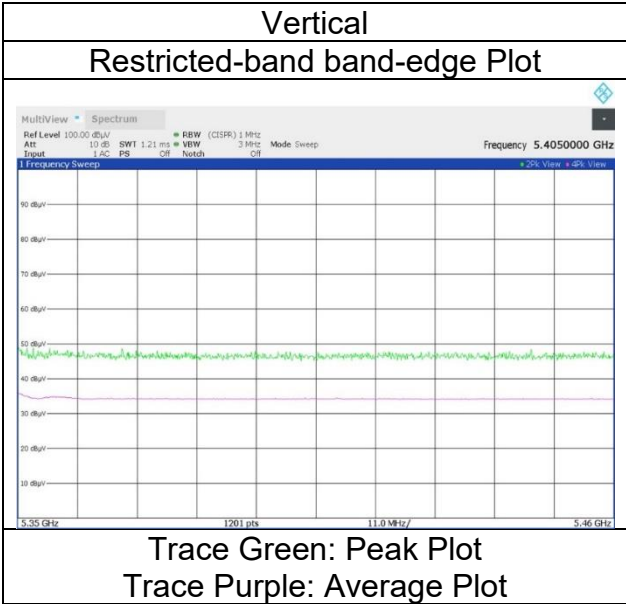
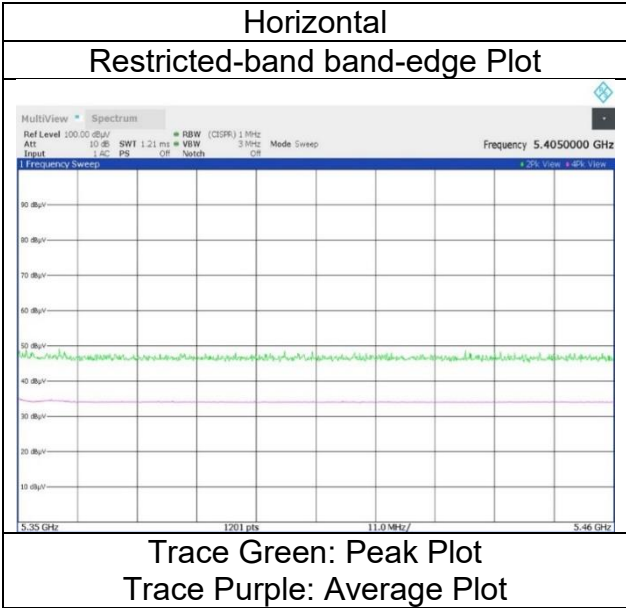
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 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	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40 5310 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa	Yohsuke Matsuzawa	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5510 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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	48.92	31.78	-25.16	-	2.10	57.64	73.9	16.2	168	38	-
Hori.	11020.000	PK	47.24	37.41	-28.85	-	-9.54	46.26	73.9	27.6	167	141	-
Hori.	5460.000	AV	34.31	31.78	-25.16	-	2.10	43.03	53.9	10.8	168	38	VBW:200 Hz
Hori.	11020.000	AV	34.35	37.41	-28.85	-	-9.54	33.37	53.9	20.5	167	141	VBW:200 Hz
Vert.	5460.000	PK	48.11	31.78	-25.16	-	2.10	56.83	73.9	17.0	216	343	-
Vert.	11020.000	PK	47.44	37.41	-28.85	-	-9.54	46.46	73.9	27.4	153	161	-
Vert.	5460.000	AV	34.48	31.78	-25.16	-	2.10	43.20	53.9	10.7	216	343	VBW:200 Hz
Vert.	11020.000	AV	34.44	37.41	-28.85	-	-9.54	33.46	53.9	20.4	153	161	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 (3.82 m / 3.0 m) = 2.10 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	49.77	31.79	-25.15	-	2.10	58.51	-36.72	-27.0	9.7	168	38	-
Hori.	6612.000	PK	49.55	34.31	-33.36	-	2.10	52.60	-42.63	-27.0	15.6	173	56	-
Hori.	16530.000	PK	48.07	39.83	-25.44	-	-9.54	52.92	-42.31	-27.0	15.3	150	0	-
Vert.	5470.000	PK	49.37	31.79	-25.15	-	2.10	58.11	-37.12	-27.0	10.1	216	343	-
Vert.	6612.000	PK	50.28	34.31	-33.36	-	2.10	53.33	-41.90	-27.0	14.9	199	344	-
Vert.	16530.000	PK	48.55	39.83	-25.44	-	-9.54	53.40	-41.83	-27.0	14.8	150	0	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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)

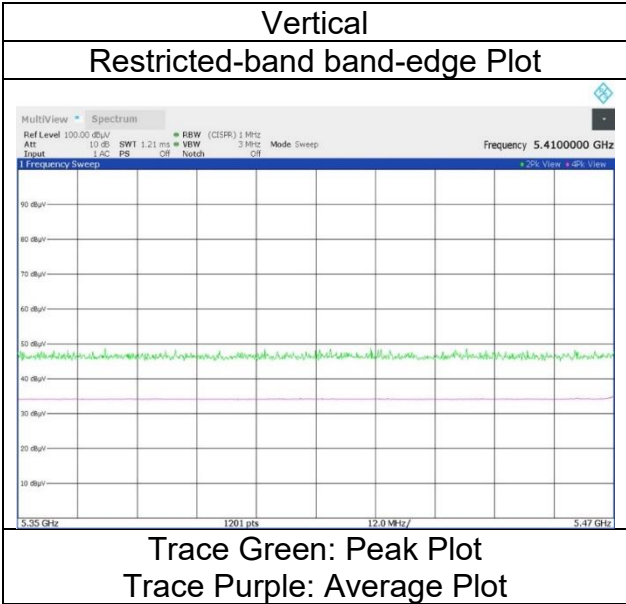
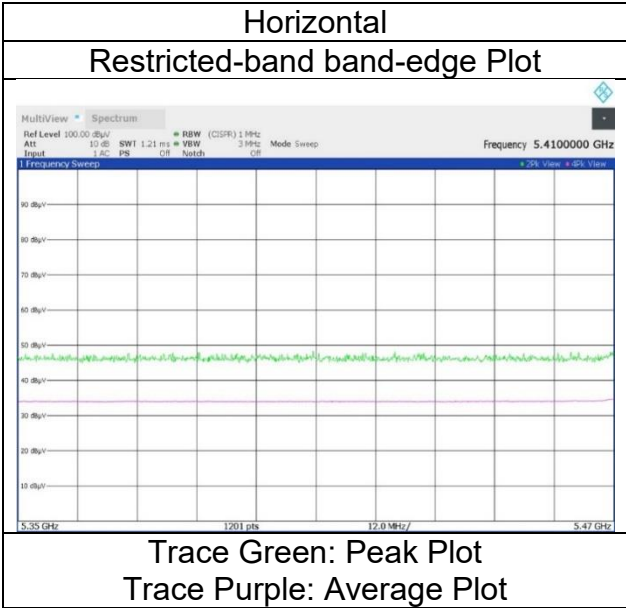
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 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	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40 5510 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5550 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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.	11100.000	PK	48.03	37.46	-28.70	-	-9.54	47.25	73.9	26.6	292	171	-
Hori.	11100.000	AV	34.58	37.46	-28.70	-	-9.54	33.80	53.9	20.1	292	171	VBW:200 Hz
Vert.	11100.000	PK	48.18	37.46	-28.70	-	-9.54	47.40	73.9	26.5	149	9	-
Vert.	11100.000	AV	34.78	37.46	-28.70	-	-9.54	34.00	53.9	19.9	149	9	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	6659.965	PK	49.50	34.33	-33.37	-	2.10	52.56	-42.67	-27.0	15.6	180	56	-
Hori.	16650.000	PK	48.37	39.59	-25.22	-	-9.54	53.20	-42.03	-27.0	15.0	150	0	-
Vert.	6659.968	PK	49.18	34.33	-33.37	-	2.10	52.24	-42.99	-27.0	15.9	151	342	-
Vert.	16650.000	PK	48.26	39.59	-25.22	-	-9.54	53.09	-42.14	-27.0	15.1	150	0	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG} ((10 ^{\wedge} (\text{Electric Field Strength [dBuV/m]} / 20) * 10 ^{\wedge} (-6) * \text{Distance : 3 [m]}) ^{\wedge} 2 / 30 * 10 ^{\wedge} 3)$

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5670 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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.	11340.000	PK	48.07	37.87	-28.25	-	-9.54	48.15	73.9	25.7	332	170	-
Hori.	11340.000	AV	34.27	37.87	-28.25	-	-9.54	34.35	53.9	19.5	332	170	VBW:200 Hz
Vert.	11340.000	PK	47.58	37.87	-28.25	-	-9.54	47.66	73.9	26.2	143	77	-
Vert.	11340.000	AV	34.17	37.87	-28.25	-	-9.54	34.25	53.9	19.6	143	77	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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.	5725.000	PK	48.73	32.01	-25.06	-	2.10	57.78	-37.45	-27.0	10.4	137	32	-
Hori.	6803.807	PK	48.58	34.59	-33.35	-	2.10	51.92	-43.31	-27.0	16.3	136	70	-
Hori.	17010.000	PK	47.55	39.71	-24.58	-	-9.54	53.14	-42.09	-27.0	15.0	150	0	-
Vert.	5725.000	PK	48.70	32.01	-25.06	-	2.10	57.75	-37.48	-27.0	10.4	206	354	-
Vert.	6803.931	PK	49.37	34.59	-33.35	-	2.10	52.71	-42.52	-27.0	15.5	199	346	-
Vert.	17010.000	PK	47.89	39.71	-24.58	-	-9.54	53.48	-41.75	-27.0	14.7	150	0	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6)) * \text{Distance} : 3\text{ [m]}^{\wedge}2 / 30 * 10^{\wedge}3)$

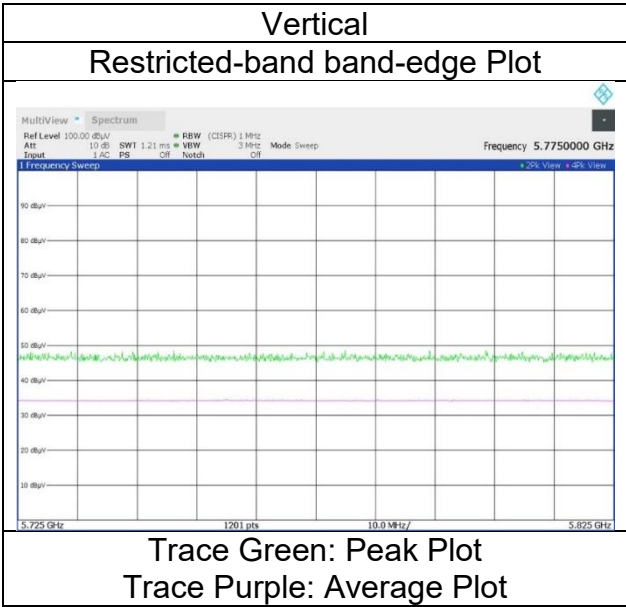
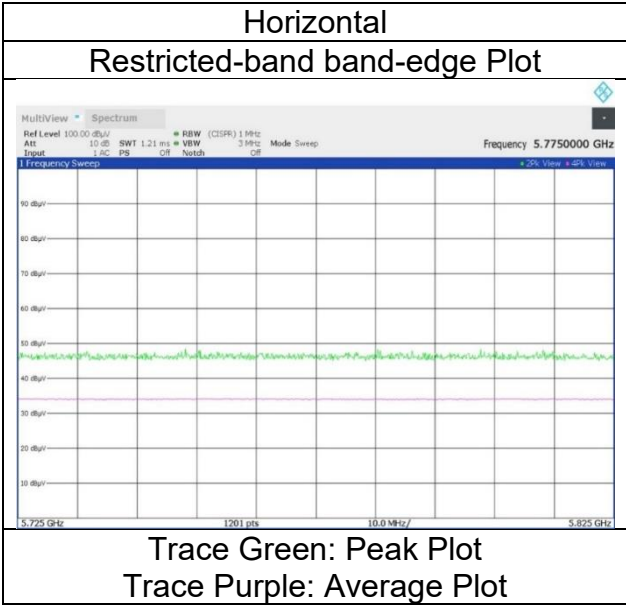
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40 5670 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5755 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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.	11510.000	PK	47.62	38.01	-27.96	-	-9.54	48.13	73.9	25.7	129	248	-
Hori.	11510.000	AV	34.84	38.01	-27.96	-	-9.54	35.35	53.9	18.5	129	248	VBW:200 Hz
Vert.	11510.000	PK	47.76	38.01	-27.96	-	-9.54	48.27	73.9	25.6	161	84	-
Vert.	11510.000	AV	34.62	38.01	-27.96	-	-9.54	35.13	53.9	18.7	161	84	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.27	31.84	-25.07	-	2.10	57.14	-38.09	-27.0	11.0	103	38	-
Hori.	5700.000	PK	48.53	31.95	-25.06	-	2.10	57.52	-37.71	10.0	47.7	103	38	-
Hori.	5720.000	PK	51.03	31.99	-25.05	-	2.10	60.07	-35.16	15.6	50.7	103	38	-
Hori.	5725.000	PK	50.66	32.01	-25.06	-	2.10	59.71	-35.52	27.0	62.5	103	38	-
Hori.	6906.413	PK	48.99	35.13	-33.35	-	2.10	52.87	-42.36	-27.0	15.3	134	103	-
Hori.	17265.000	PK	48.47	40.15	-24.39	-	-9.54	54.69	-40.54	-27.0	13.5	150	0	-
Vert.	5650.000	PK	48.16	31.84	-25.07	-	2.10	57.03	-38.20	-27.0	11.2	267	331	-
Vert.	5700.000	PK	48.55	31.95	-25.06	-	2.10	57.54	-37.69	10.0	47.6	267	331	-
Vert.	5720.000	PK	50.20	31.99	-25.05	-	2.10	59.24	-35.99	15.6	51.5	267	331	-
Vert.	5725.000	PK	50.96	32.01	-25.06	-	2.10	60.01	-35.22	27.0	62.2	267	331	-
Vert.	6905.931	PK	49.00	35.13	-33.35	-	2.10	52.88	-42.35	-27.0	15.3	341	348	-
Vert.	17265.000	PK	48.37	40.15	-24.39	-	-9.54	54.59	-40.64	-27.0	13.6	150	0	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (ERP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6)) * \text{Distance} : 3 [\text{m}])^{\wedge}2 / 30 * 10^{\wedge}3)$

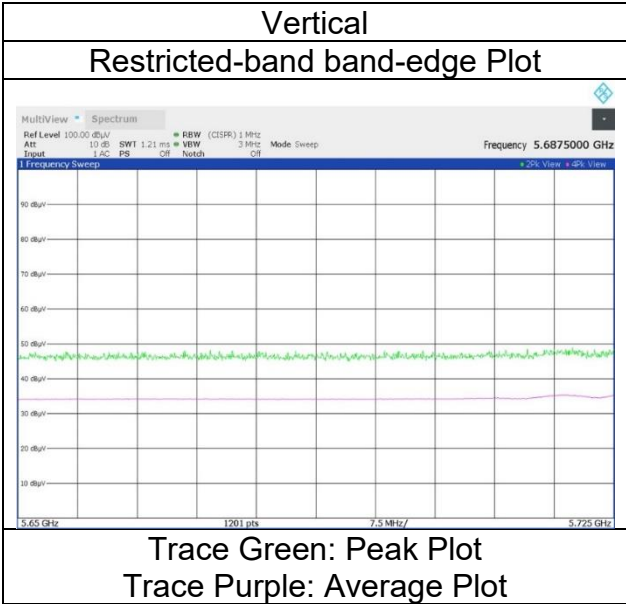
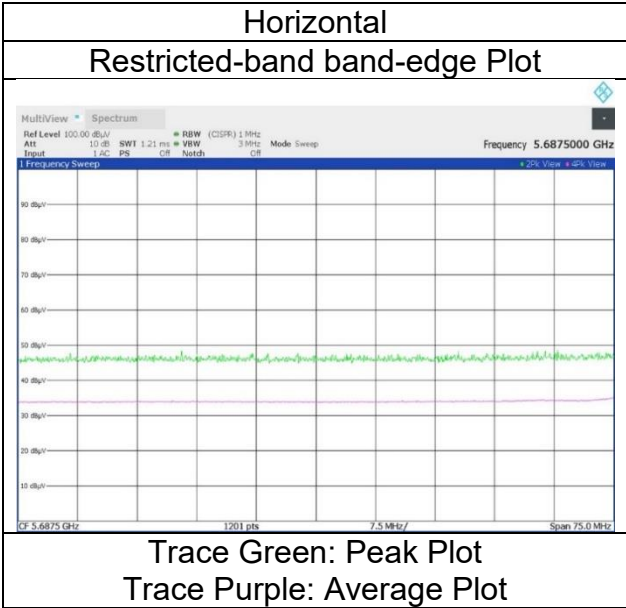
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 15, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11n-40 5755 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1	WAC1	WAC1	WAC 1
Date	January 15, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	20 deg. C / 30 % RH	20 deg. C / 30 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11n-40 5795 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(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.	11590.000	PK	48.09	38.04	-27.99	-	-9.54	48.60	73.9	25.3	124	61	-
Hori.	11590.000	AV	34.82	38.04	-27.99	-	-9.54	35.33	53.9	18.5	124	61	VBW:200 Hz
Vert.	11590.000	PK	48.09	38.04	-27.99	-	-9.54	48.60	73.9	25.3	153	245	-
Vert.	11590.000	AV	34.33	38.04	-27.99	-	-9.54	34.84	53.9	19.0	153	245	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = 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 (3.82 m / 3.0 m) = 2.10 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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.94	32.33	-25.01	-	2.10	58.36	-36.87	27.0	63.8	124	33	-
Hori.	5855.000	PK	48.87	32.34	-25.00	-	2.10	58.31	-36.92	15.6	52.5	124	33	-
Hori.	5875.000	PK	48.14	32.38	-25.00	-	2.10	57.62	-37.61	10.0	47.6	124	33	-
Hori.	5925.000	PK	48.45	32.46	-24.99	-	2.10	58.02	-37.21	-27.0	10.2	124	33	-
Hori.	6954.000	PK	48.36	35.41	-33.34	-	2.10	52.53	-42.70	-27.0	15.7	135	86	-
Hori.	17385.000	PK	47.47	40.25	-24.32	-	-9.54	53.86	-41.37	-27.0	14.3	150	0	-
Vert.	5850.000	PK	48.44	32.33	-25.01	-	2.10	57.86	-37.37	27.0	64.3	237	353	-
Vert.	5855.000	PK	48.21	32.34	-25.00	-	2.10	57.65	-37.58	15.6	53.1	237	353	-
Vert.	5875.000	PK	48.54	32.38	-25.00	-	2.10	58.02	-37.21	10.0	47.2	237	353	-
Vert.	5925.000	PK	48.76	32.46	-24.99	-	2.10	58.33	-36.90	-27.0	9.9	237	353	-
Vert.	6954.000	PK	48.75	35.41	-33.34	-	2.10	52.92	-42.31	-27.0	15.3	209	342	-
Vert.	17385.000	PK	48.20	40.25	-24.32	-	-9.54	54.59	-40.64	-27.0	13.6	150	0	-

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (ERP [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).

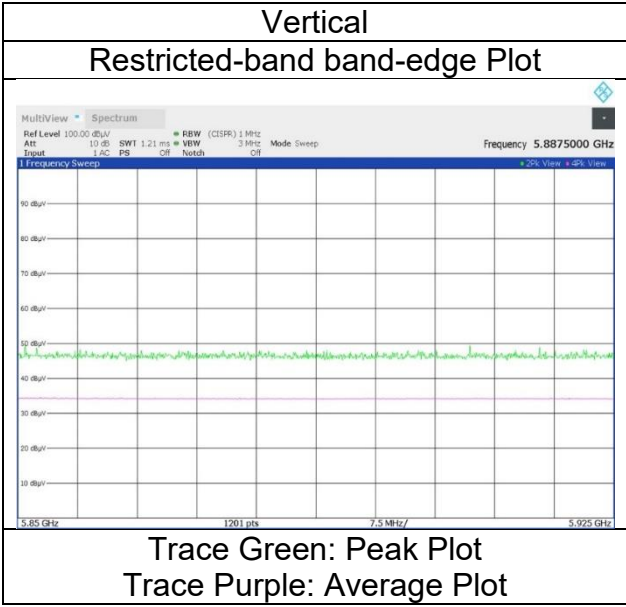
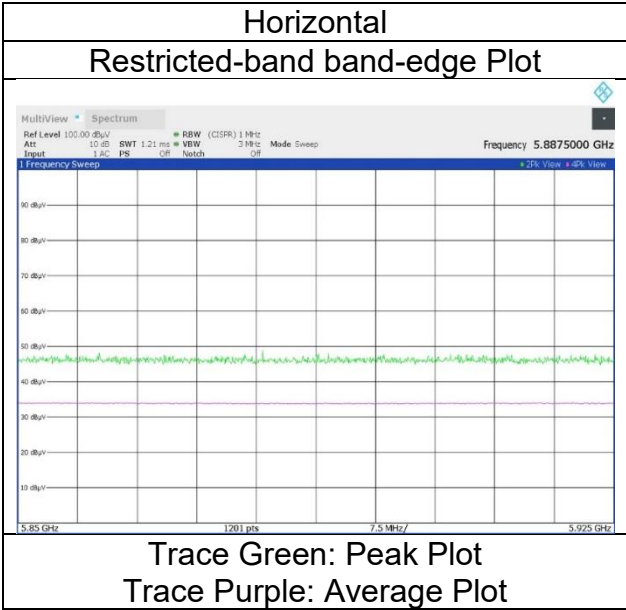
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 15, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11n-40 5795 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5190 MHz
Antenna type	5G CH 0: monopole 5G CH 1: slot

(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	49.05	31.86	-25.53	-	2.10	57.48	73.9	16.4	151	39	-
Hori.	5150.000	AV	34.83	31.86	-25.53	-	2.10	43.26	53.9	10.6	151	39	VBW:200 Hz
Vert.	5150.000	PK	49.14	31.86	-25.53	-	2.10	57.57	73.9	16.3	165	351	-
Vert.	5150.000	AV	34.73	31.86	-25.53	-	2.10	43.16	53.9	10.7	165	351	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

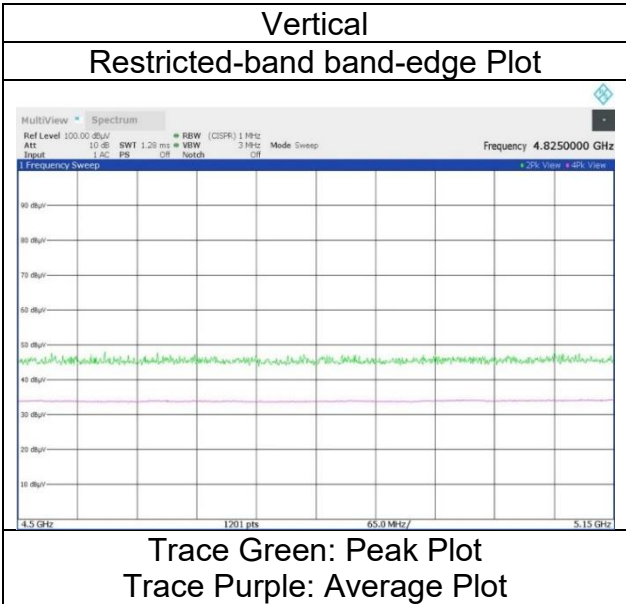
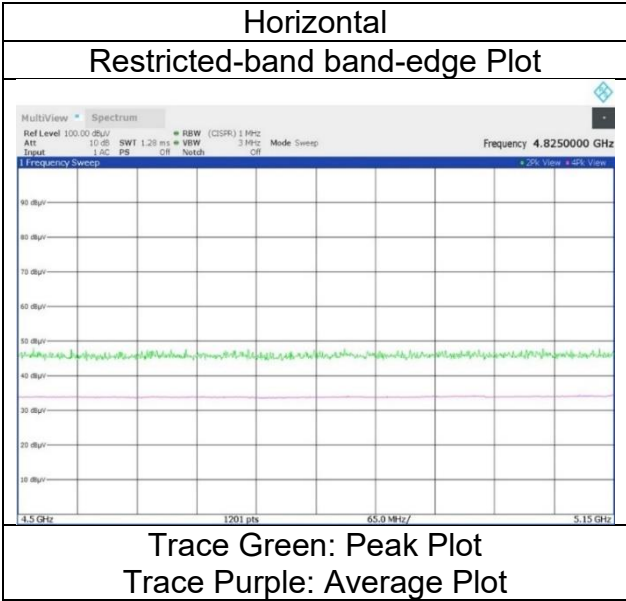
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
Mode	Tx 11ac-40 5190 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 13, 2024
Temperature / Humidity 21 deg. C / 35 % RH
Engineer Kouki Yamada
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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	49.13	31.58	-25.29	-	2.10	57.52	73.9	16.3	163	51	-
Hori.	5355.808	PK	49.50	31.59	-25.29	-	2.10	57.90	73.9	16.0	163	51	-
Hori.	5350.000	AV	34.57	31.58	-25.29	-	2.10	42.96	53.9	10.9	163	51	VBW:200 Hz
Hori.	5355.808	AV	34.83	31.59	-25.29	-	2.10	43.23	53.9	10.6	163	51	VBW:200 Hz
Vert.	5350.000	PK	49.85	31.58	-25.29	-	2.10	58.24	73.9	15.6	195	353	-
Vert.	5356.104	PK	50.34	31.59	-25.29	-	2.10	58.74	73.9	15.1	195	353	-
Vert.	5350.000	AV	35.29	31.58	-25.29	-	2.10	43.68	53.9	10.2	195	353	VBW:200 Hz
Vert.	5356.104	AV	35.16	31.59	-25.29	-	2.10	43.56	53.9	10.3	195	353	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

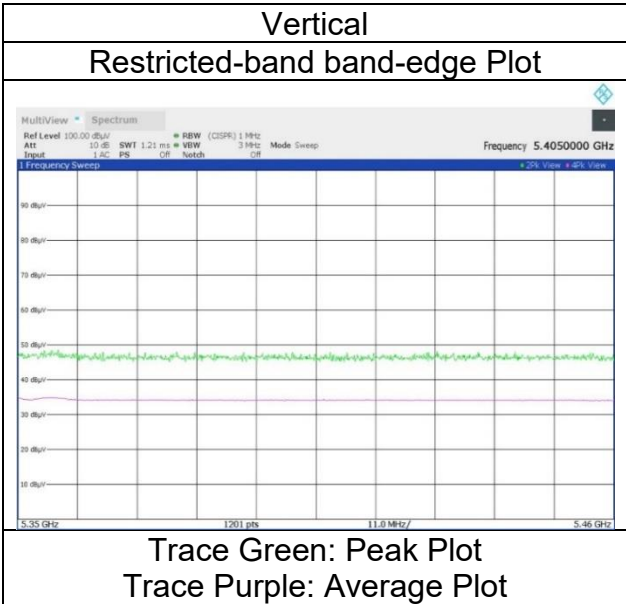
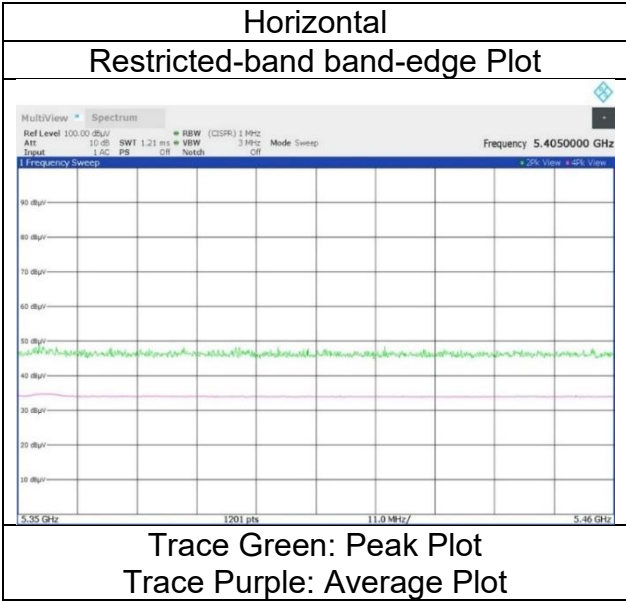
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 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	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
Mode	Tx 11ac-40 5310 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5510 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot

(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	48.18	31.78	-25.16	-	2.10	56.90	73.9	17.0	147	39	-
Hori.	5460.000	AV	34.12	31.78	-25.16	-	2.10	42.84	53.9	11.0	147	39	VBW:200 Hz
Vert.	5460.000	PK	48.61	31.78	-25.16	-	2.10	57.33	73.9	16.5	190	341	-
Vert.	5460.000	AV	34.37	31.78	-25.16	-	2.10	43.09	53.9	10.8	190	341	VBW:200 Hz

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.93	31.79	-25.15	-	2.10	57.67	-37.56	-27.0	10.5	147	39	-
Vert.	5466.250	PK	49.82	31.79	-25.16	-	2.10	58.55	-36.68	-27.0	9.6	190	341	-
Vert.	5470.000	PK	49.47	31.79	-25.15	-	2.10	58.21	-37.02	-27.0	10.0	190	341	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

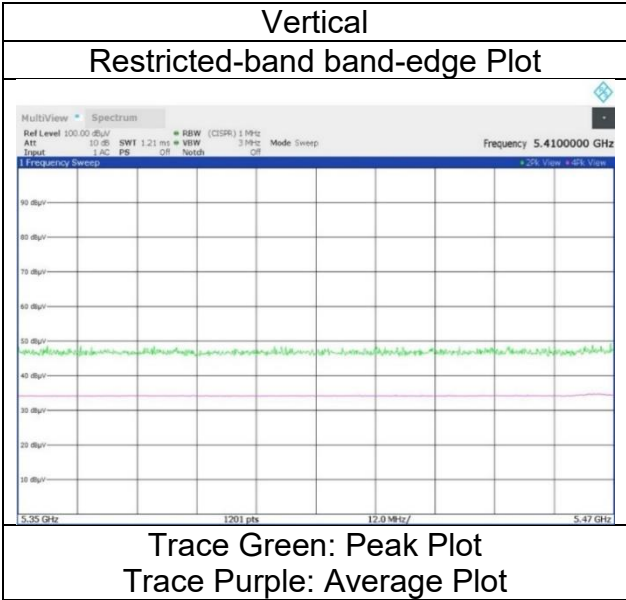
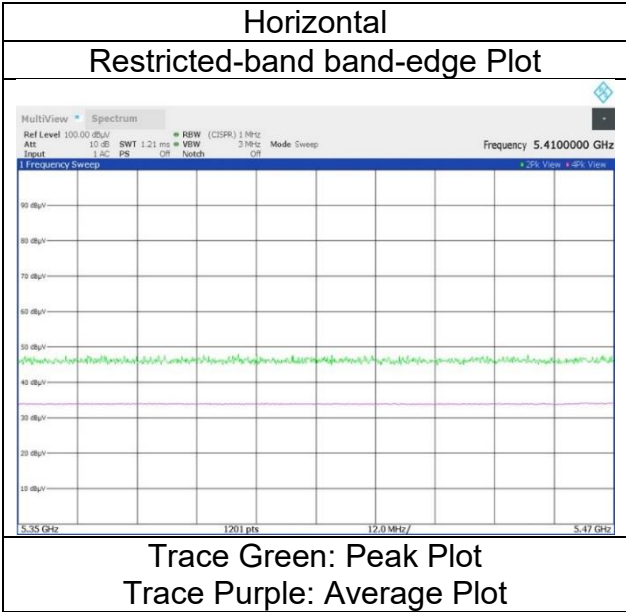
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
Mode	Tx 11ac-40 5510 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



* 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 WAC1
Date January 13, 2024
Temperature / Humidity 21 deg. C / 35 % RH
Engineer Kouki Yamada
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.42	32.01	-25.06	-	2.10	58.47	-36.76	-27.0	9.7	101	34	-
Vert.	5725.000	PK	49.50	32.01	-25.06	-	2.10	58.55	-36.68	-27.0	9.6	151	355	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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).

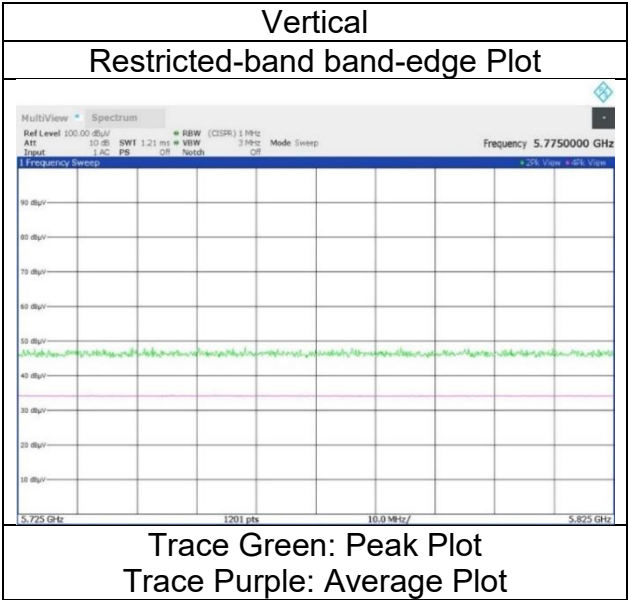
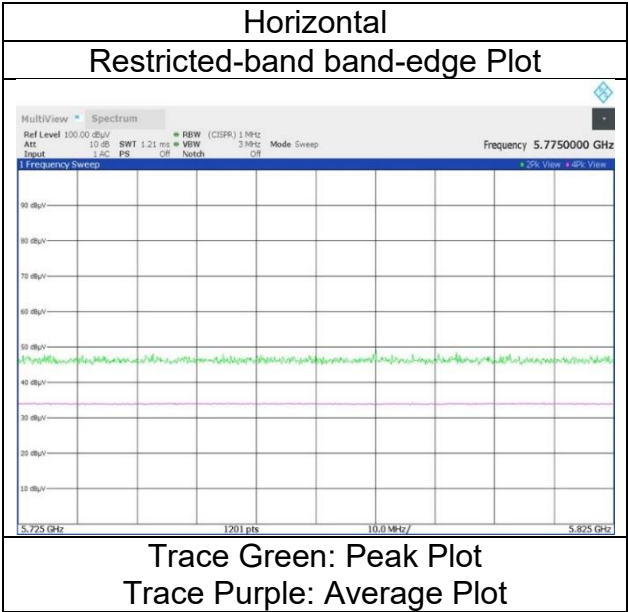
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-40 5670 MHz
5G_CH 0: monopole 5G_CH 1: slot



* 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	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5755 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.90	31.84	-25.07	-	2.10	56.77	-38.46	-27.0	11.4	152	29	-
Hori.	5700.000	PK	48.56	31.95	-25.06	-	2.10	57.55	-37.68	10.0	47.6	152	29	-
Hori.	5720.000	PK	48.90	31.99	-25.05	-	2.10	57.94	-37.29	15.6	52.8	152	29	-
Hori.	5725.000	PK	50.29	32.01	-25.06	-	2.10	59.34	-35.89	27.0	62.8	152	29	-
Vert.	5650.000	PK	48.37	31.84	-25.07	-	2.10	57.24	-37.99	-27.0	10.9	201	342	-
Vert.	5700.000	PK	48.60	31.95	-25.06	-	2.10	57.59	-37.64	10.0	47.6	201	342	-
Vert.	5720.000	PK	50.55	31.99	-25.05	-	2.10	59.59	-35.64	15.6	51.2	201	342	-
Vert.	5721.784	PK	50.98	32.00	-25.05	-	2.10	60.03	-35.20	19.7	54.9	201	342	-
Vert.	5725.000	PK	50.90	32.01	-25.06	-	2.10	59.95	-35.28	27.0	62.2	201	342	-

1 GHz - 18 GHz : Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$