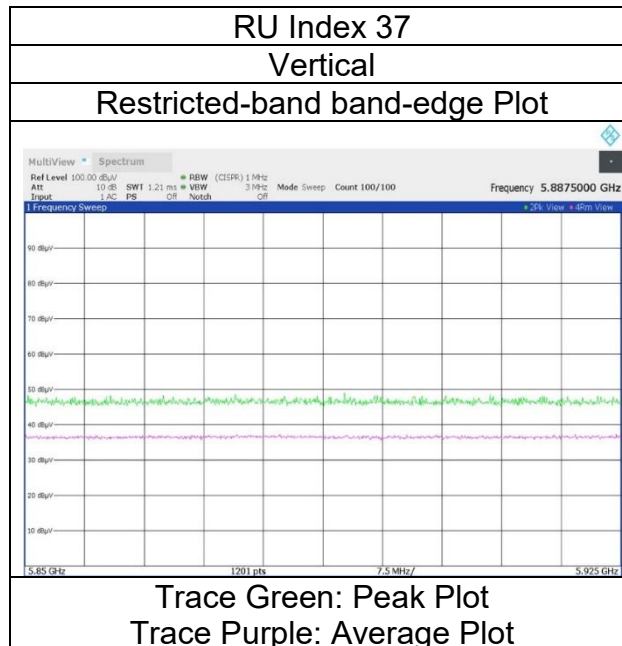
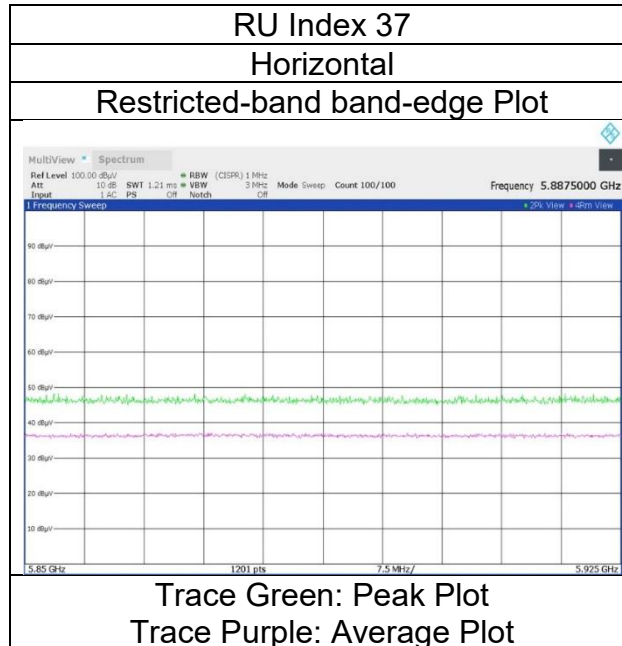


Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 52-tone RU, 5955 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6415 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12830.000	PK	47.54	38.63	-24.94	-	0.00	-9.54	51.69	-43.54	-7.0	36.5	150	0	Floor Noise
Hori.	12830.000	AV	35.37	38.63	-24.94	-	0.00	-9.54	39.52	-55.71	-27.0	28.7	150	0	Floor Noise
Vert.	12830.000	PK	47.39	38.63	-24.94	-	0.00	-9.54	51.54	-43.69	-7.0	36.6	150	0	Floor Noise
Vert.	12830.000	AV	35.52	38.63	-24.94	-	0.00	-9.54	39.67	-55.56	-27.0	28.5	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12870.000	PK	47.20	38.68	-24.92	-	0.00	-9.54	51.42	-43.81	-7.0	36.8	150	0	Floor Noise
Hori.	12870.000	AV	35.43	38.68	-24.92	-	0.00	-9.54	39.65	-55.58	-27.0	28.5	150	0	Floor Noise
Vert.	12870.000	PK	47.35	38.68	-24.92	-	0.00	-9.54	51.57	-43.66	-7.0	36.6	150	0	Floor Noise
Vert.	12870.000	AV	35.26	38.68	-24.92	-	0.00	-9.54	39.48	-55.75	-27.0	28.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6515 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13030.000	PK	47.40	38.84	-24.86	-	0.00	-9.54	51.84	-43.39	-7.0	36.3	150	0	Floor Noise
Hori.	13030.000	AV	35.55	38.84	-24.86	-	0.00	-9.54	39.99	-55.24	-27.0	28.2	150	0	Floor Noise
Vert.	13030.000	PK	47.82	38.84	-24.86	-	0.00	-9.54	52.26	-42.97	-7.0	35.9	150	0	Floor Noise
Vert.	13030.000	AV	35.54	38.84	-24.86	-	0.00	-9.54	39.98	-55.25	-27.0	28.2	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13070.000	PK	47.71	38.86	-24.83	-	0.00	-9.54	52.20	-43.03	-7.0	36.0	150	0	Floor Noise
Hori.	13070.000	AV	35.60	38.86	-24.83	-	0.00	-9.54	40.09	-55.14	-27.0	28.1	150	0	Floor Noise
Vert.	13070.000	PK	47.83	38.86	-24.83	-	0.00	-9.54	52.32	-42.91	-7.0	35.9	150	0	Floor Noise
Vert.	13070.000	AV	35.56	38.86	-24.83	-	0.00	-9.54	40.05	-55.18	-27.0	28.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13710.000	PK	47.48	39.07	-24.69	-	0.00	-9.54	52.32	-42.91	-7.0	35.9	150	0	Floor Noise
Hori.	13710.000	AV	35.84	39.07	-24.69	-	0.00	-9.54	40.68	-54.55	-27.0	27.5	150	0	Floor Noise
Vert.	13710.000	PK	47.19	39.07	-24.69	-	0.00	-9.54	52.03	-43.20	-7.0	36.2	150	0	Floor Noise
Vert.	13710.000	AV	35.73	39.07	-24.69	-	0.00	-9.54	40.57	-54.66	-27.0	27.6	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13790.000	PK	47.85	39.08	-24.71	-	0.00	-9.54	52.68	-42.55	-7.0	35.5	150	0	Floor Noise
Hori.	13790.000	AV	35.66	39.08	-24.71	-	0.00	-9.54	40.49	-54.74	-27.0	27.7	150	0	Floor Noise
Vert.	13790.000	PK	47.82	39.08	-24.71	-	0.00	-9.54	52.65	-42.58	-7.0	35.5	150	0	Floor Noise
Vert.	13790.000	AV	35.72	39.08	-24.71	-	0.00	-9.54	40.55	-54.68	-27.0	27.6	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 21, 2024 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH 22 deg. C / 63 % RH
Engineer Yosuke Murakami Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.01	36.14	-24.19	-	0.00	2.10	62.06	-33.17	-7.0	26.1	201	356	-
Hori.	14190.000	PK	47.34	39.08	-24.64	-	0.00	-9.54	52.24	-42.99	-7.0	35.9	150	0	Floor Noise
Hori.	7125.000	AV	35.72	36.14	-24.19	-	0.00	2.10	49.77	-45.46	-27.0	18.4	201	356	-
Hori.	14190.000	AV	35.97	39.08	-24.64	-	0.00	-9.54	40.87	-54.36	-27.0	27.3	150	0	Floor Noise
Vert.	7125.000	PK	46.78	36.14	-24.19	-	0.00	2.10	60.83	-34.40	-7.0	27.4	141	6	-
Vert.	14190.000	PK	47.73	39.08	-24.64	-	0.00	-9.54	52.63	-42.60	-7.0	35.6	150	0	Floor Noise
Vert.	7125.000	AV	36.34	36.14	-24.19	-	0.00	2.10	50.39	-44.84	-27.0	17.8	141	6	-
Vert.	14190.000	AV	35.98	39.08	-24.64	-	0.00	-9.54	40.88	-54.35	-27.0	27.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

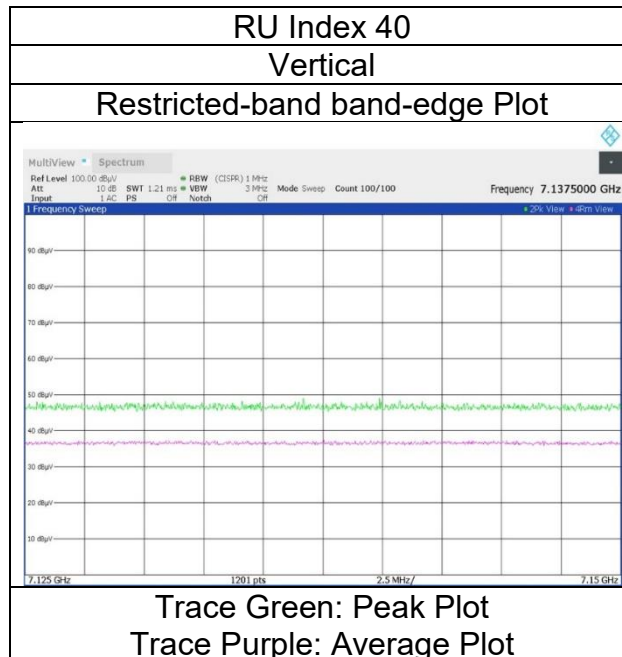
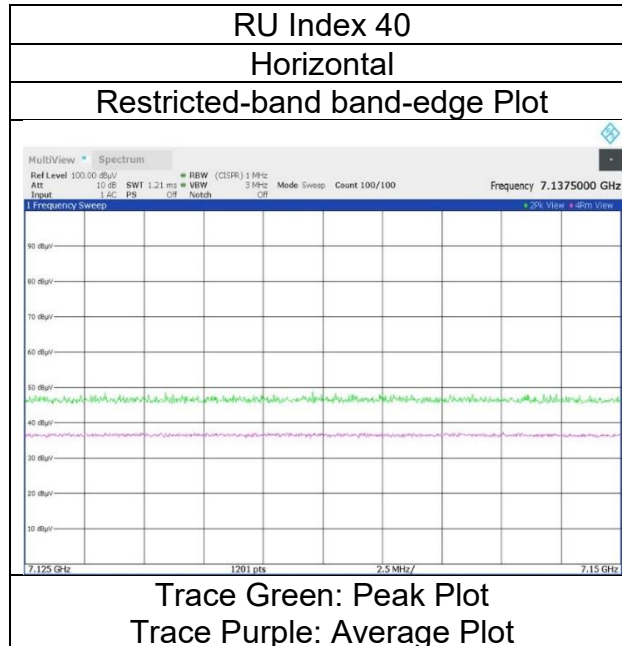
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 52-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 53

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.35	32.46	-24.99	-	0.00	2.10	57.92	-37.31	-7.0	30.3	196	353	-
Hori.	5925.000	AV	36.34	32.46	-24.99	-	0.00	2.10	45.91	-49.32	-27.0	22.3	196	353	-
Vert.	5925.000	PK	46.77	32.46	-24.99	-	0.00	2.10	56.34	-38.89	-7.0	31.8	127	357	-
Vert.	5925.000	AV	36.03	32.46	-24.99	-	0.00	2.10	45.60	-49.63	-27.0	22.6	127	357	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

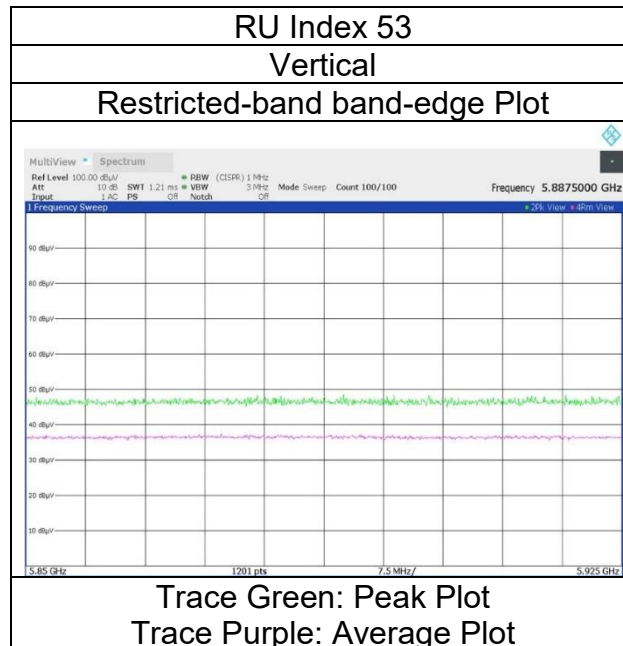
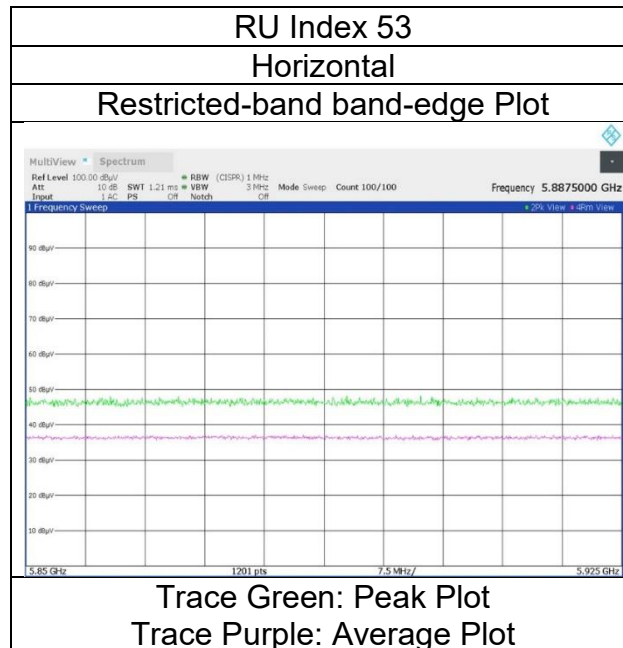
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 106-tone RU, 5955 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.01	36.14	-24.19	-	0.00	2.10	62.06	-33.17	-7.0	26.1	201	356	-
Hori.	7125.000	AV	35.72	36.14	-24.19	-	0.00	2.10	49.77	-45.46	-27.0	18.4	201	356	-
Vert.	7125.000	PK	46.78	36.14	-24.19	-	0.00	2.10	60.83	-34.40	-7.0	27.4	141	6	-
Vert.	7125.000	AV	36.34	36.14	-24.19	-	0.00	2.10	50.39	-44.84	-27.0	17.8	141	6	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

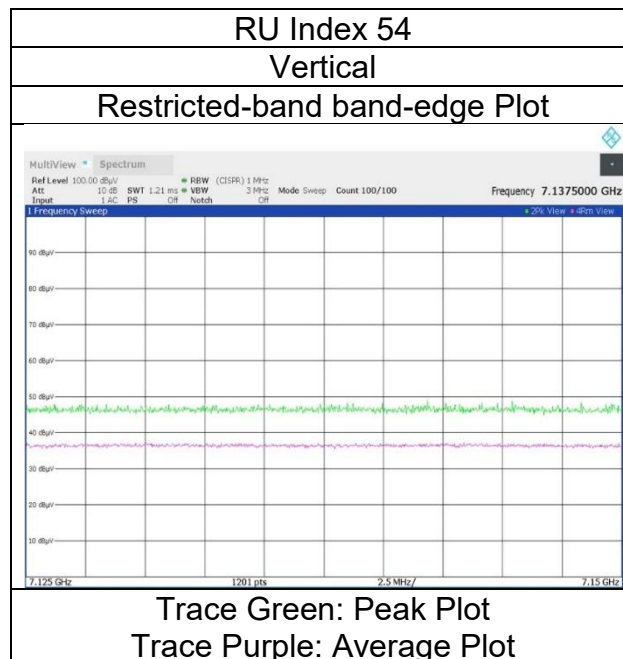
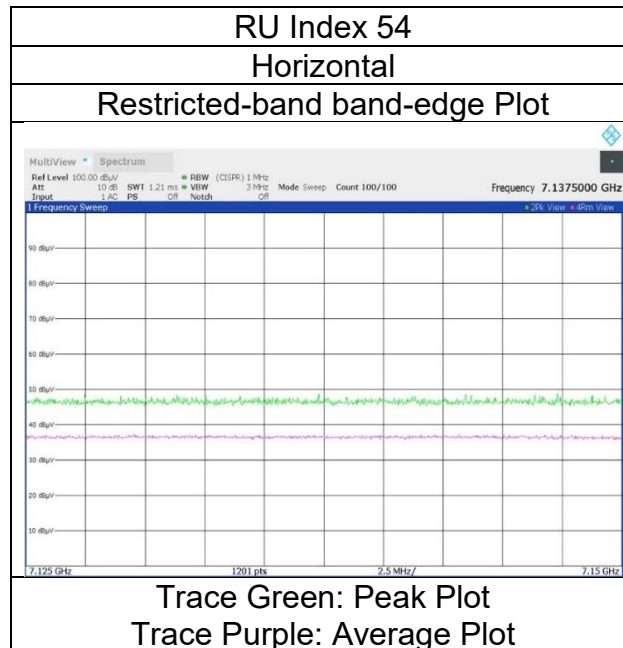
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 106-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH 22 deg. C / 63 % RH
Engineer Yosuke Murakami Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11910.000	PK	47.36	38.54	-25.71	-	-9.54	50.65	73.9	23.2	150	0	Floor Noise
Hori.	17865.000	PK	47.49	40.39	-21.51	-	-9.54	56.83	73.9	17.0	150	0	Floor Noise
Hori.	11910.000	AV	35.54	38.54	-25.71	-	-9.54	38.83	53.9	15.0	150	0	Floor Noise
Hori.	17865.000	AV	35.79	40.39	-21.51	-	-9.54	45.13	53.9	8.7	150	0	Floor Noise
Vert.	11910.000	PK	47.48	38.54	-25.71	-	-9.54	50.77	73.9	23.1	150	0	Floor Noise
Vert.	17865.000	PK	47.69	40.39	-21.51	-	-9.54	57.03	73.9	16.8	150	0	Floor Noise
Vert.	11910.000	AV	35.62	38.54	-25.71	-	-9.54	38.91	53.9	14.9	150	0	Floor Noise
Vert.	17865.000	AV	35.80	40.39	-21.51	-	-9.54	45.14	53.9	8.7	150	0	Floor Noise

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 (3.820 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.61	32.46	-24.99	-	0.00	2.10	58.18	-37.05	-7.0	30.0	182	354	-
Hori.	5925.000	AV	35.77	32.46	-24.99	-	0.22	2.10	45.56	-49.67	-27.0	22.6	182	354	-
Vert.	5925.000	PK	46.21	32.46	-24.99	-	0.00	2.10	55.78	-39.45	-7.0	32.4	127	357	-
Vert.	5925.000	AV	35.56	32.46	-24.99	-	0.22	2.10	45.35	-49.88	-27.0	22.8	127	357	-

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

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

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

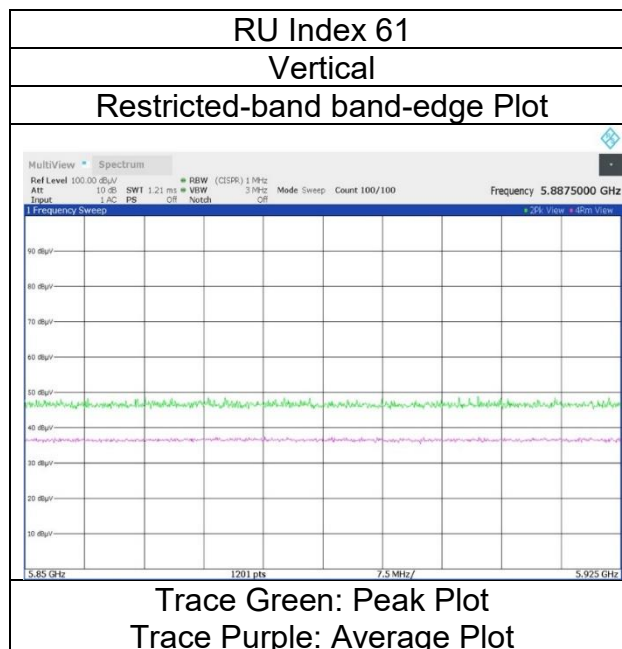
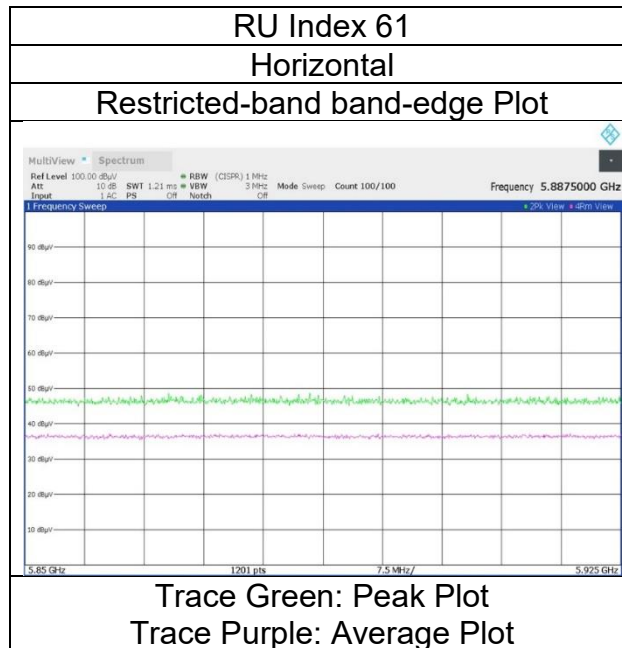
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6415 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12830.000	PK	47.01	38.63	-24.94	-	0.00	-9.54	51.16	-44.07	-7.0	37.0	150	0	Floor Noise
Hori.	12830.000	AV	35.43	38.63	-24.94	-	0.00	-9.54	39.58	-55.65	-27.0	28.6	150	0	Floor Noise
Vert.	12830.000	PK	47.31	38.63	-24.94	-	0.00	-9.54	51.46	-43.77	-7.0	36.7	150	0	Floor Noise
Vert.	12830.000	AV	35.48	38.63	-24.94	-	0.00	-9.54	39.63	-55.60	-27.0	28.6	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12870.000	PK	47.21	38.68	-24.92	-	0.00	-9.54	51.43	-43.80	-7.0	36.8	150	0	Floor Noise
Hori.	12870.000	AV	35.41	38.68	-24.92	-	0.00	-9.54	39.63	-55.60	-27.0	28.6	150	0	Floor Noise
Vert.	12870.000	PK	47.35	38.68	-24.92	-	0.00	-9.54	51.57	-43.66	-7.0	36.6	150	0	Floor Noise
Vert.	12870.000	AV	35.64	38.68	-24.92	-	0.00	-9.54	39.86	-55.37	-27.0	28.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6515 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13030.000	PK	47.39	38.84	-24.86	-	0.00	-9.54	51.83	-43.40	-7.0	36.4	150	0	Floor Noise
Hori.	13030.000	AV	35.85	38.84	-24.86	-	0.00	-9.54	40.29	-54.94	-27.0	27.9	150	0	Floor Noise
Vert.	13030.000	PK	47.30	38.84	-24.86	-	0.00	-9.54	51.74	-43.49	-7.0	36.4	150	0	Floor Noise
Vert.	13030.000	AV	35.82	38.84	-24.86	-	0.00	-9.54	40.26	-54.97	-27.0	27.9	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13070.000	PK	47.66	38.86	-24.83	-	0.00	-9.54	52.15	-43.08	-7.0	36.0	150	0	Floor Noise
Hori.	13070.000	AV	35.63	38.86	-24.83	-	0.00	-9.54	40.12	-55.11	-27.0	28.1	150	0	Floor Noise
Vert.	13070.000	PK	47.38	38.86	-24.83	-	0.00	-9.54	51.87	-43.36	-7.0	36.3	150	0	Floor Noise
Vert.	13070.000	AV	35.58	38.86	-24.83	-	0.00	-9.54	40.07	-55.16	-27.0	28.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13710.000	PK	47.28	39.07	-24.69	-	0.00	-9.54	52.12	-43.11	-7.0	36.1	150	0	Floor Noise
Hori.	13710.000	AV	35.60	39.07	-24.69	-	0.00	-9.54	40.44	-54.79	-27.0	27.7	150	0	Floor Noise
Vert.	13710.000	PK	47.26	39.07	-24.69	-	0.00	-9.54	52.10	-43.13	-7.0	36.1	150	0	Floor Noise
Vert.	13710.000	AV	35.63	39.07	-24.69	-	0.00	-9.54	40.47	-54.76	-27.0	27.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 21, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63 % RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13790.000	PK	47.34	39.08	-24.71	-	0.00	-9.54	52.17	-43.06	-7.0	36.0	150	0	Floor Noise
Hori.	13790.000	AV	35.40	39.08	-24.71	-	0.00	-9.54	40.23	-55.00	-27.0	28.0	150	0	Floor Noise
Vert.	13790.000	PK	47.91	39.08	-24.71	-	0.00	-9.54	52.74	-42.49	-7.0	35.4	150	0	Floor Noise
Vert.	13790.000	AV	35.51	39.08	-24.71	-	0.00	-9.54	40.34	-54.89	-27.0	27.8	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 May 21, 2024 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH 22 deg. C / 63 % RH
Engineer Yosuke Murakami Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.75	36.14	-24.19	-	0.00	2.10	61.80	-33.43	-7.0	26.4	160	353	-
Hori.	14190.000	PK	47.71	39.08	-24.64	-	0.00	-9.54	52.61	-42.62	-7.0	35.6	150	0	Floor Noise
Hori.	7125.000	AV	36.14	36.14	-24.19	-	0.22	2.10	50.41	-44.82	-27.0	17.8	160	353	-
Hori.	14190.000	AV	35.87	39.08	-24.64	-	0.00	-9.54	40.77	-54.46	-27.0	27.4	150	0	Floor Noise
Vert.	7125.000	PK	46.66	36.14	-24.19	-	0.00	2.10	60.71	-34.52	-7.0	27.5	149	3	-
Vert.	14190.000	PK	47.24	39.08	-24.64	-	0.00	-9.54	52.14	-43.09	-7.0	36.0	150	0	Floor Noise
Vert.	7125.000	AV	36.08	36.14	-24.19	-	0.22	2.10	50.35	-44.88	-27.0	17.8	149	3	-
Vert.	14190.000	AV	35.85	39.08	-24.64	-	0.00	-9.54	40.75	-54.48	-27.0	27.4	150	0	Floor Noise

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

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

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

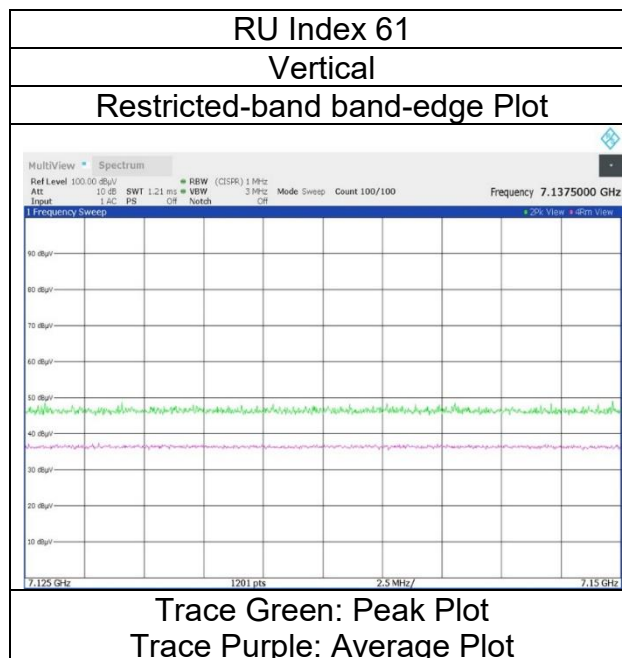
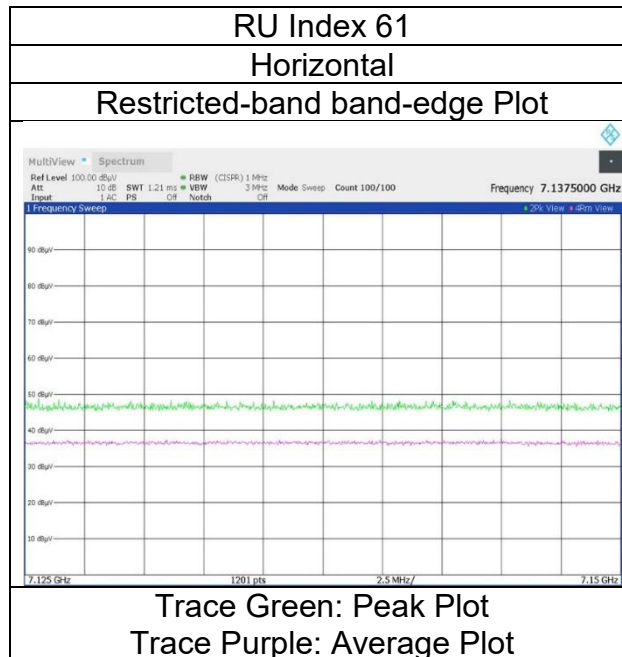
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 7095 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.33	32.46	-24.99	-	0.00	2.10	57.90	-37.33	-7.0	30.3	206	351	-
Hori.	5925.000	AV	35.83	32.46	-24.99	-	0.00	2.10	45.40	-49.83	-27.0	22.8	206	351	-
Vert.	5925.000	PK	46.53	32.46	-24.99	-	0.00	2.10	56.10	-39.13	-7.0	32.1	124	356	-
Vert.	5925.000	AV	35.81	32.46	-24.99	-	0.00	2.10	45.38	-49.85	-27.0	22.8	124	356	-

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

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

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

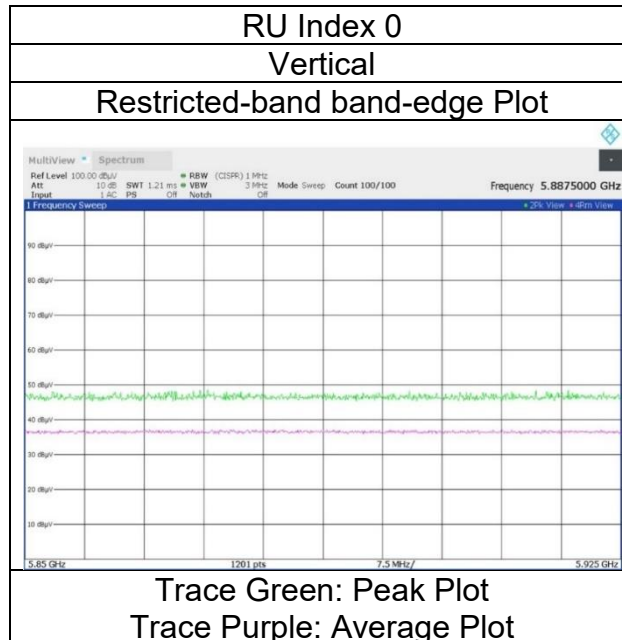
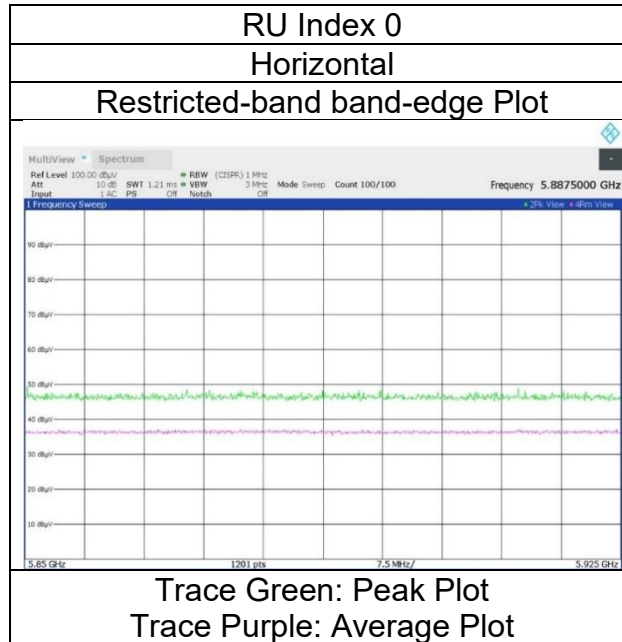
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 5965 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 17

(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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.00	36.14	-24.19	-	0.00	2.10	61.05	-34.18	-7.0	27.1	158	356	-
Hori.	7125.000	AV	35.86	36.14	-24.19	-	0.00	2.10	49.91	-45.32	-27.0	18.3	158	356	-
Vert.	7125.000	PK	46.88	36.14	-24.19	-	0.00	2.10	60.93	-34.30	-7.0	27.3	100	0	-
Vert.	7125.000	AV	35.81	36.14	-24.19	-	0.00	2.10	49.86	-45.37	-27.0	18.3	100	0	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

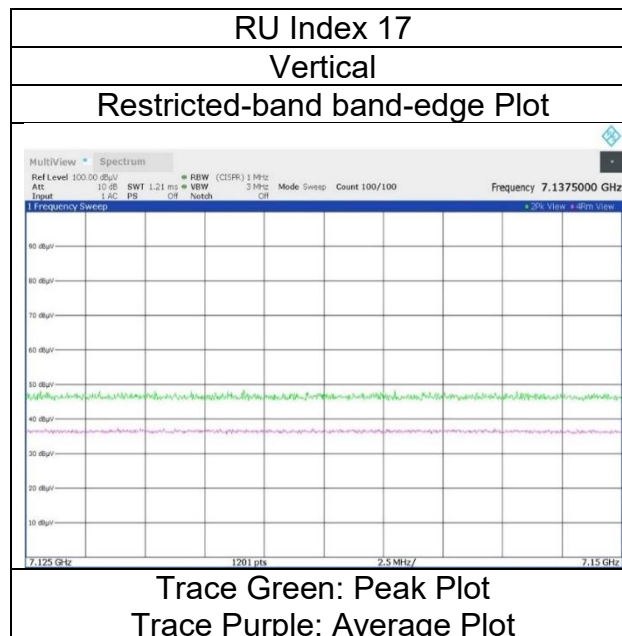
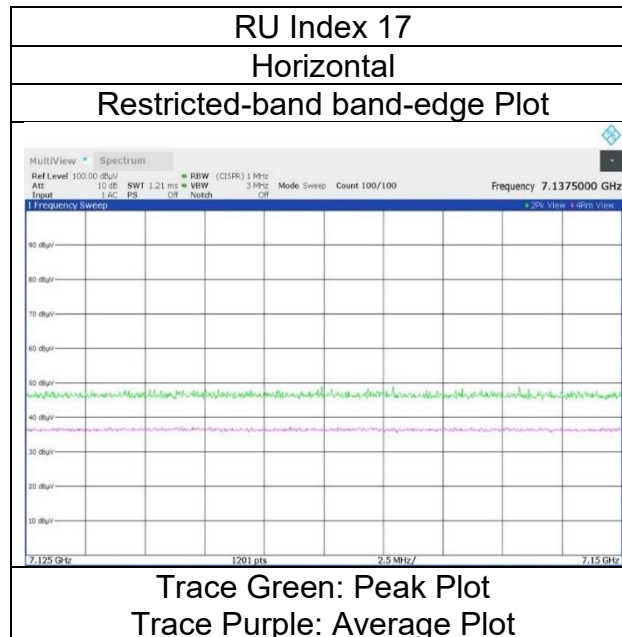
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.62	32.46	-24.99	-	0.00	2.10	58.19	-37.04	-7.0	30.0	238	349	-
Hori.	5925.000	AV	36.26	32.46	-24.99	-	0.00	2.10	45.83	-49.40	-27.0	22.4	238	349	-
Vert.	5925.000	PK	47.46	32.46	-24.99	-	0.00	2.10	57.03	-38.20	-7.0	31.2	124	356	-
Vert.	5925.000	AV	35.34	32.46	-24.99	-	0.00	2.10	44.91	-50.32	-27.0	23.3	124	356	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

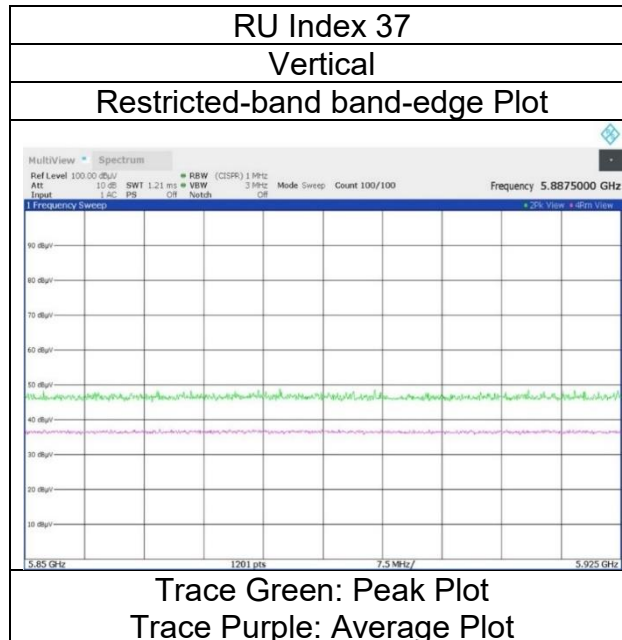
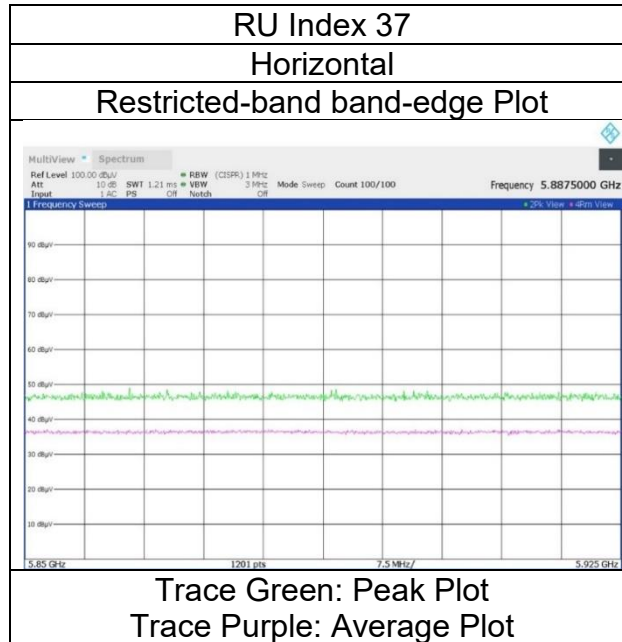
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 52-tone RU, 5965 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 44

(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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.76	36.14	-24.19	-	0.00	2.10	60.81	-34.42	-7.0	27.4	158	356	-
Hori.	7125.000	AV	35.79	36.14	-24.19	-	0.00	2.10	49.84	-45.39	-27.0	18.3	158	356	-
Vert.	7125.000	PK	46.55	36.14	-24.19	-	0.00	2.10	60.60	-34.63	-7.0	27.6	148	7	-
Vert.	7125.000	AV	35.71	36.14	-24.19	-	0.00	2.10	49.76	-45.47	-27.0	18.4	148	7	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

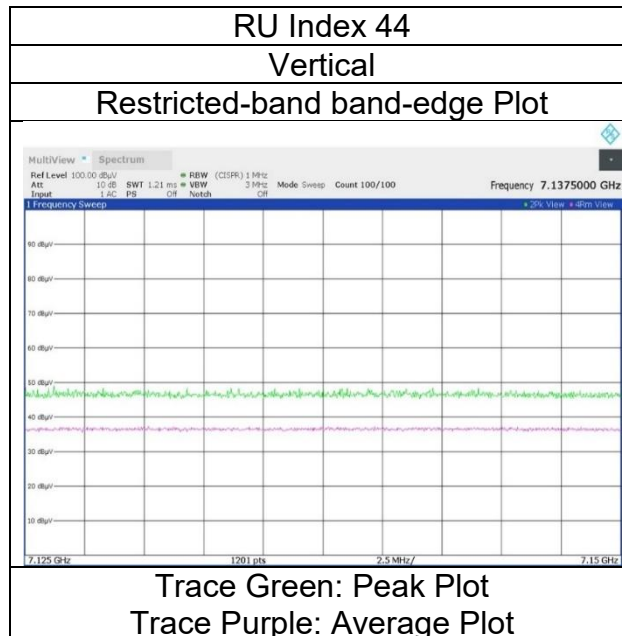
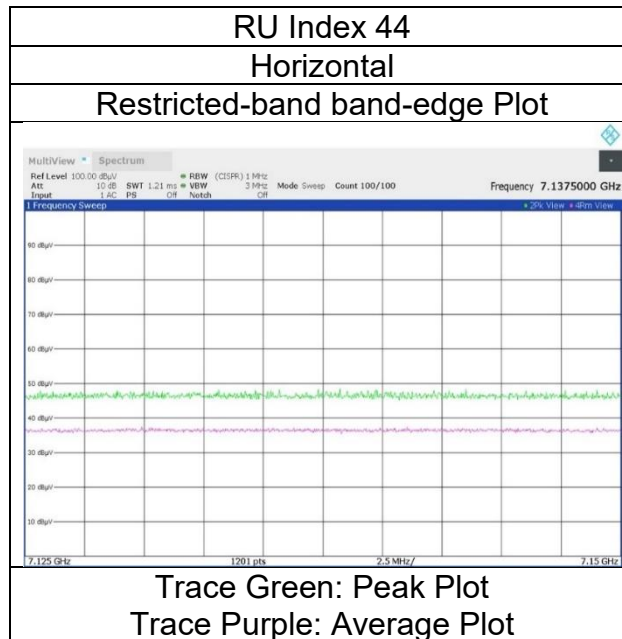
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 53

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.32	32.46	-24.99	-	0.00	2.10	57.89	-37.34	-7.0	30.3	215	348	-
Hori.	5925.000	AV	36.31	32.46	-24.99	-	0.00	2.10	45.88	-49.35	-27.0	22.3	215	348	-
Vert.	5925.000	PK	46.30	32.46	-24.99	-	0.00	2.10	55.87	-39.36	-7.0	32.3	123	356	-
Vert.	5925.000	AV	36.07	32.46	-24.99	-	0.00	2.10	45.64	-49.59	-27.0	22.5	123	356	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

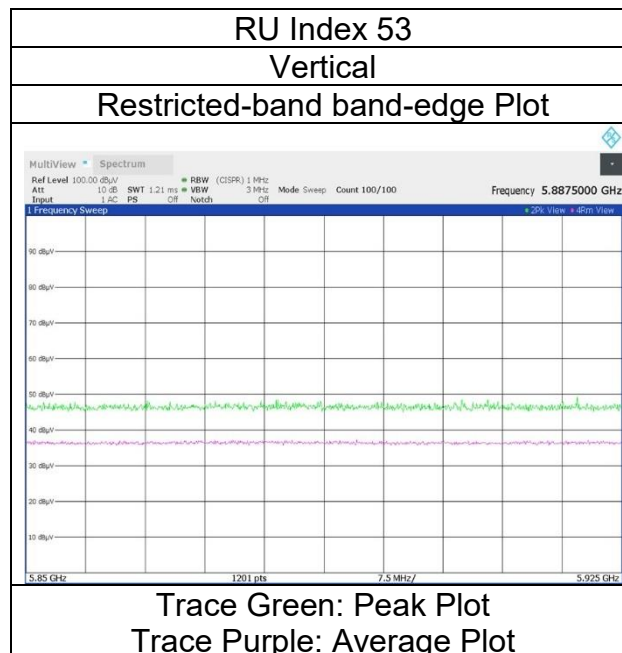
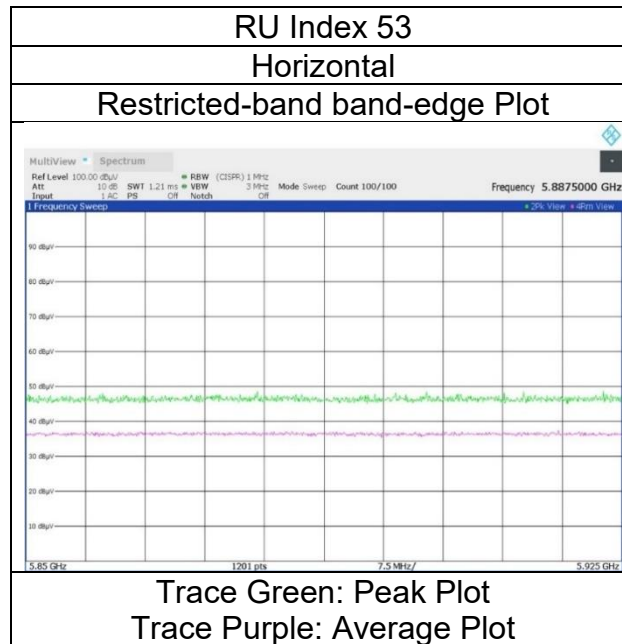
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 56

(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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.59	36.14	-24.19	-	0.00	2.10	61.64	-33.59	-7.0	26.5	160	353	-
Hori.	7125.000	AV	35.95	36.14	-24.19	-	0.00	2.10	50.00	-45.23	-27.0	18.2	160	353	-
Vert.	7125.000	PK	46.45	36.14	-24.19	-	0.00	2.10	60.50	-34.73	-7.0	27.7	148	0	-
Vert.	7125.000	AV	35.71	36.14	-24.19	-	0.00	2.10	49.76	-45.47	-27.0	18.4	148	0	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

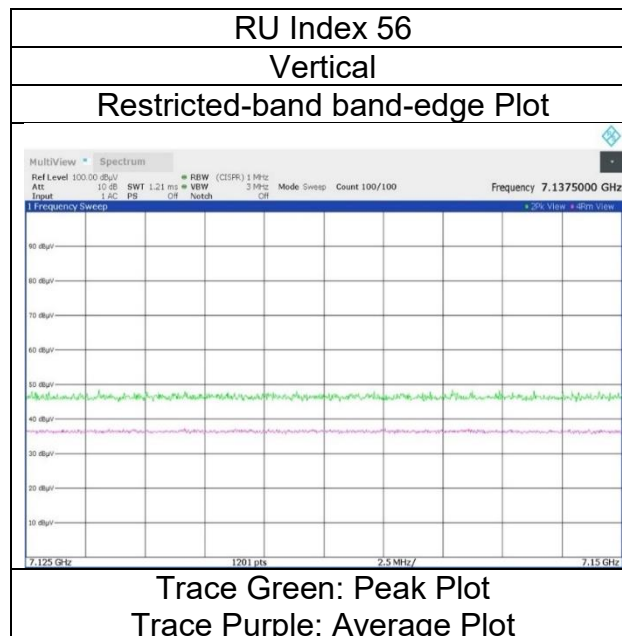
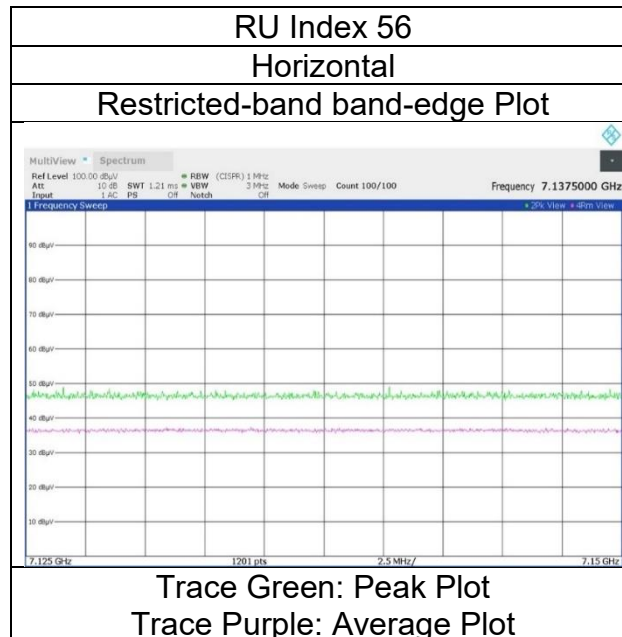
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.48	32.46	-24.99	-	0.00	2.10	58.05	-37.18	-7.0	30.1	193	347	-
Hori.	5925.000	AV	36.33	32.46	-24.99	-	0.00	2.10	45.90	-49.33	-27.0	22.3	193	347	-
Vert.	5925.000	PK	46.68	32.46	-24.99	-	0.00	2.10	56.25	-38.98	-7.0	31.9	124	357	-
Vert.	5925.000	AV	35.70	32.46	-24.99	-	0.00	2.10	45.27	-49.96	-27.0	22.9	124	357	-

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

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

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

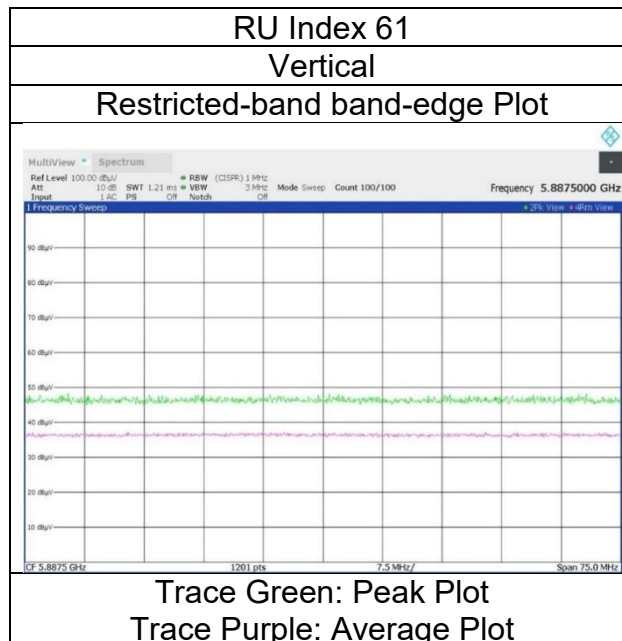
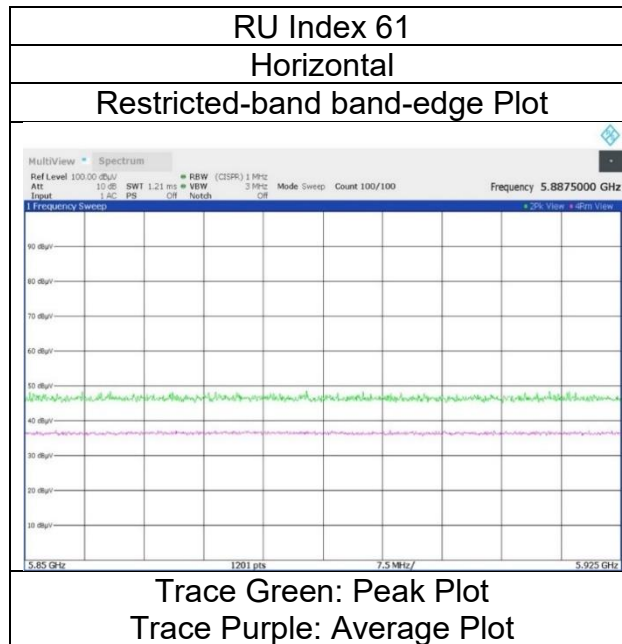
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40 (OFDMA) 242-tone RU, 5965 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 62

(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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.79	36.14	-24.19	-	0.00	2.10	60.84	-34.39	-7.0	27.3	153	355	-
Hori.	7125.000	AV	35.52	36.14	-24.19	-	0.00	2.10	49.57	-45.66	-27.0	18.6	153	355	-
Vert.	7125.000	PK	46.59	36.14	-24.19	-	0.00	2.10	60.64	-34.59	-7.0	27.5	150	1	-
Vert.	7125.000	AV	36.02	36.14	-24.19	-	0.00	2.10	50.07	-45.16	-27.0	18.1	150	1	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

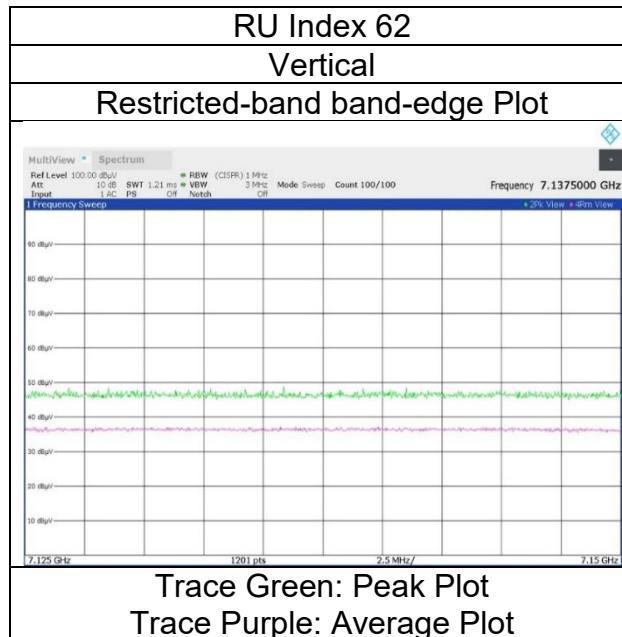
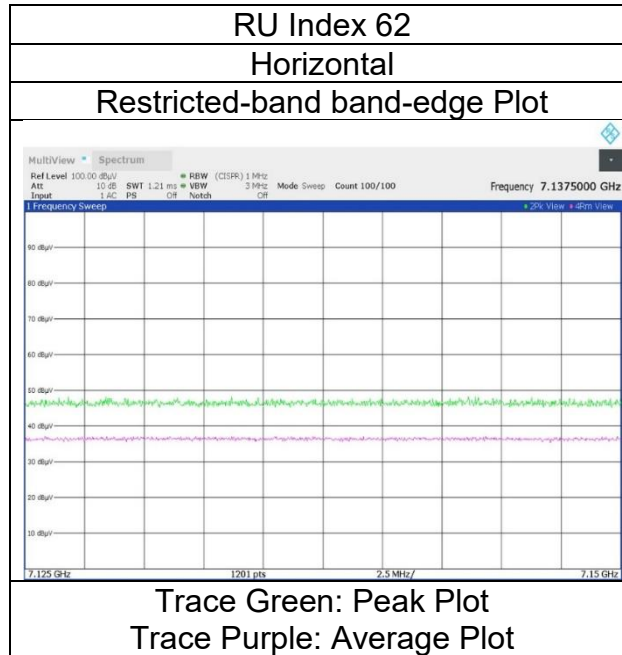
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 242-tone RU, 7085 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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	May 21, 2024	May 30, 2024
Temperature / Humidity	22 deg. C / 70 % RH	22 deg. C / 63%RH
Engineer	Yosuke Murakami	Makoto Hosaka
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 5965 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11930.000	PK	47.43	38.55	-25.70	-	-9.54	50.74	73.9	23.1	150	0	Floor Noise
Hori.	17895.000	PK	48.01	40.34	-21.49	-	-9.54	57.32	73.9	16.5	150	0	Floor Noise
Hori.	11930.000	AV	35.64	38.55	-25.70	-	-9.54	38.95	53.9	14.9	150	0	Floor Noise
Hori.	17895.000	AV	35.82	40.34	-21.49	-	-9.54	45.13	53.9	8.7	150	0	Floor Noise
Vert.	11930.000	PK	47.63	38.55	-25.70	-	-9.54	50.94	73.9	22.9	150	0	Floor Noise
Vert.	17895.000	PK	47.94	40.34	-21.49	-	-9.54	57.25	73.9	16.6	150	0	Floor Noise
Vert.	11930.000	AV	35.61	38.55	-25.70	-	-9.54	38.92	53.9	14.9	150	0	Floor Noise
Vert.	17895.000	AV	35.82	40.34	-21.49	-	-9.54	45.13	53.9	8.7	150	0	Floor Noise

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 (3.820 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.85	32.46	-24.99	-	0.00	2.10	57.42	-37.81	-7.0	30.8	164	358	-
Hori.	5925.000	AV	36.35	32.46	-24.99	-	0.00	2.10	45.92	-49.31	-27.0	22.3	164	358	-
Vert.	5925.000	PK	47.01	32.46	-24.99	-	0.00	2.10	56.58	-38.65	-7.0	31.6	127	357	-
Vert.	5925.000	AV	35.71	32.46	-24.99	-	0.00	2.10	45.28	-49.95	-27.0	22.9	127	357	-

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

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

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

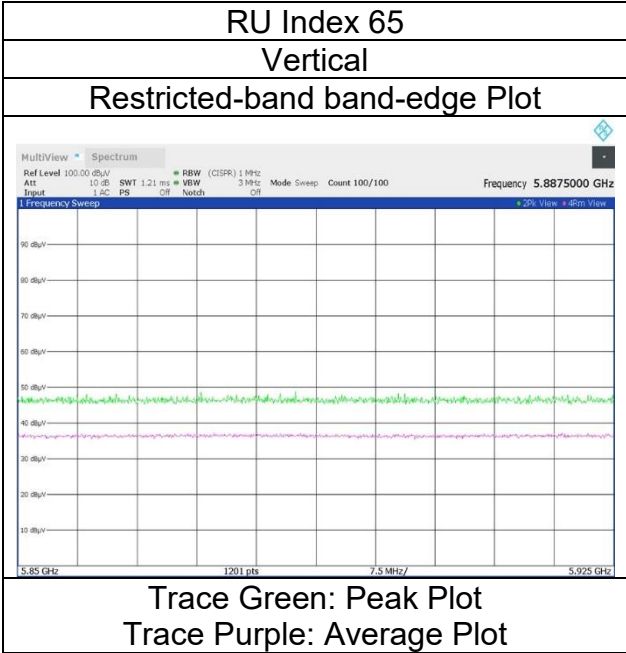
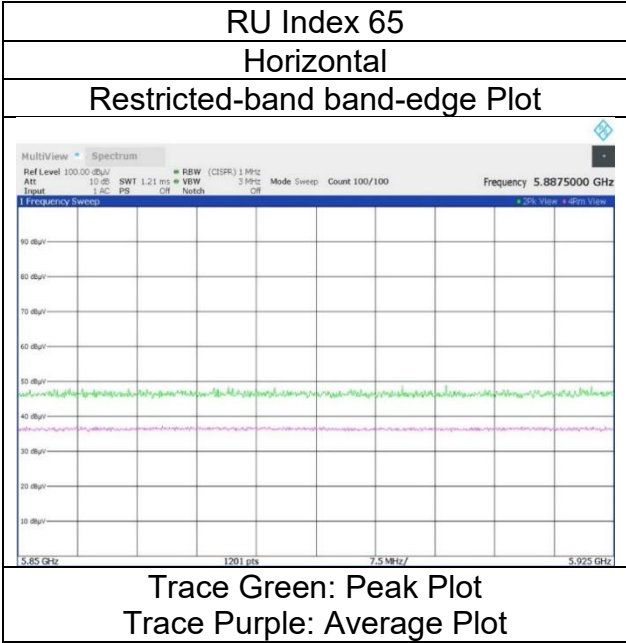
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 5965 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6405 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12810.000	PK	47.68	38.61	-24.96	-	0.00	-9.54	51.79	-43.44	-7.0	36.4	150	0	Floor Noise
Hori.	12810.000	AV	35.71	38.61	-24.96	-	0.00	-9.54	39.82	-55.41	-27.0	28.4	150	0	Floor Noise
Vert.	12810.000	PK	47.55	38.61	-24.96	-	0.00	-9.54	51.66	-43.57	-7.0	36.5	150	0	Floor Noise
Vert.	12810.000	AV	35.64	38.61	-24.96	-	0.00	-9.54	39.75	-55.48	-27.0	28.4	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6445 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12890.000	PK	47.52	38.70	-24.92	-	0.00	-9.54	51.76	-43.47	-7.0	36.4	150	0	Floor Noise
Hori.	12890.000	AV	35.81	38.70	-24.92	-	0.00	-9.54	40.05	-55.18	-27.0	28.1	150	0	Floor Noise
Vert.	12890.000	PK	47.55	38.70	-24.92	-	0.00	-9.54	51.79	-43.44	-7.0	36.4	150	0	Floor Noise
Vert.	12890.000	AV	35.95	38.70	-24.92	-	0.00	-9.54	40.19	-55.04	-27.0	28.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6525 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13050.000	PK	47.41	38.85	-24.85	-	0.00	-9.54	51.87	-43.36	-7.0	36.3	150	0	Floor Noise
Hori.	13050.000	AV	35.59	38.85	-24.85	-	0.00	-9.54	40.05	-55.18	-27.0	28.1	150	0	Floor Noise
Vert.	13050.000	PK	47.28	38.85	-24.85	-	0.00	-9.54	51.74	-43.49	-7.0	36.4	150	0	Floor Noise
Vert.	13050.000	AV	35.58	38.85	-24.85	-	0.00	-9.54	40.04	-55.19	-27.0	28.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6565 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13130.000	PK	47.51	38.89	-24.81	-	0.00	-9.54	52.05	-43.18	-7.0	36.1	150	0	Floor Noise
Hori.	13130.000	AV	35.83	38.89	-24.81	-	0.00	-9.54	40.37	-54.86	-27.0	27.8	150	0	Floor Noise
Vert.	13130.000	PK	47.25	38.89	-24.81	-	0.00	-9.54	51.79	-43.44	-7.0	36.4	150	0	Floor Noise
Vert.	13130.000	AV	35.87	38.89	-24.81	-	0.00	-9.54	40.41	-54.82	-27.0	27.8	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6845 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13690.000	PK	47.78	39.08	-24.68	-	0.00	-9.54	52.64	-42.59	-7.0	35.5	150	0	Floor Noise
Hori.	13690.000	AV	36.07	39.08	-24.68	-	0.00	-9.54	40.93	-54.30	-27.0	27.3	150	0	Floor Noise
Vert.	13690.000	PK	47.66	39.08	-24.68	-	0.00	-9.54	52.52	-42.71	-7.0	35.7	150	0	Floor Noise
Vert.	13690.000	AV	36.04	39.08	-24.68	-	0.00	-9.54	40.90	-54.33	-27.0	27.3	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6885 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13770.000	PK	47.79	39.09	-24.70	-	0.00	-9.54	52.64	-42.59	-7.0	35.5	150	0	Floor Noise
Hori.	13770.000	AV	35.82	39.09	-24.70	-	0.00	-9.54	40.67	-54.56	-27.0	27.5	150	0	Floor Noise
Vert.	13770.000	PK	47.80	39.09	-24.70	-	0.00	-9.54	52.65	-42.58	-7.0	35.5	150	0	Floor Noise
Vert.	13770.000	AV	35.92	39.09	-24.70	-	0.00	-9.54	40.77	-54.46	-27.0	27.4	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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	May 21, 2024	May 30, 2024
Temperature / Humidity	22 deg. C / 70 % RH	22 deg. C / 63%RH
Engineer	Yosuke Murakami	Makoto Hosaka
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDMA) 484-tone RU, 7085 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.42	35.91	-24.12	-	0.00	2.10	62.31	-32.92	-7.0	25.9	262	165	-
Hori.	14170.000	PK	48.36	39.07	-24.67	-	0.00	-9.54	53.22	-42.01	-7.0	35.0	150	0	Floor Noise
Hori.	7125.000	AV	37.02	35.91	-24.12	-	0.00	2.10	50.91	-44.32	-27.0	17.3	262	165	-
Hori.	14170.000	AV	36.25	39.07	-24.67	-	0.00	-9.54	41.11	-54.12	-27.0	27.1	150	0	Floor Noise
Vert.	7125.000	PK	48.38	35.91	-24.12	-	0.00	2.10	62.27	-32.96	-7.0	25.9	199	64	-
Vert.	14170.000	PK	48.19	39.07	-24.67	-	0.00	-9.54	53.05	-42.18	-7.0	35.1	150	0	Floor Noise
Vert.	7125.000	AV	36.86	35.91	-24.12	-	0.00	2.10	50.75	-44.48	-27.0	17.4	199	64	-
Vert.	14170.000	AV	36.30	39.07	-24.67	-	0.00	-9.54	41.16	-54.07	-27.0	27.0	150	0	Floor Noise

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

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

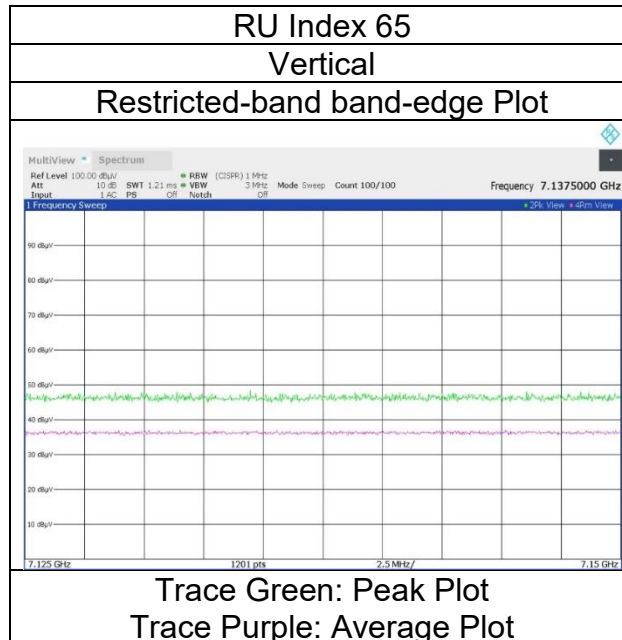
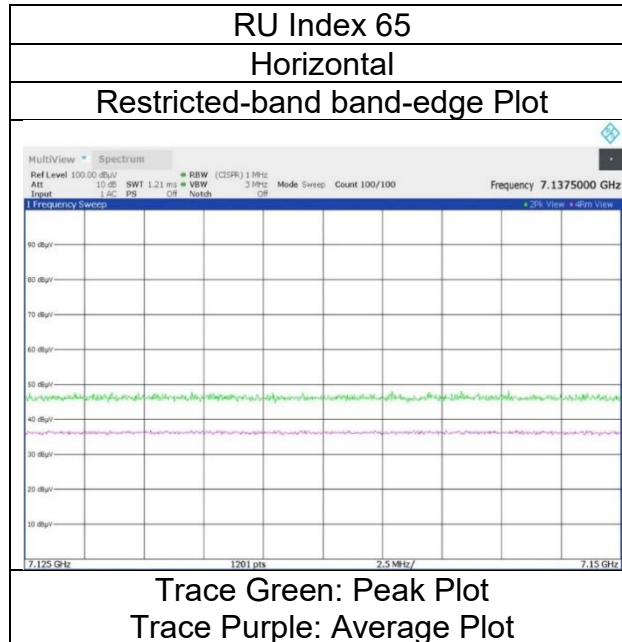
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 484-tone RU, 7085 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.11	32.46	-24.99	-	0.00	2.10	55.68	-39.55	-7.0	32.5	150	358	-
Hori.	5925.000	AV	35.23	32.46	-24.99	-	0.00	2.10	44.80	-50.43	-27.0	23.4	150	358	-
Vert.	5925.000	PK	46.39	32.46	-24.99	-	0.00	2.10	55.96	-39.27	-7.0	32.2	112	350	-
Vert.	5925.000	AV	35.35	32.46	-24.99	-	0.00	2.10	44.92	-50.31	-27.0	23.3	112	350	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

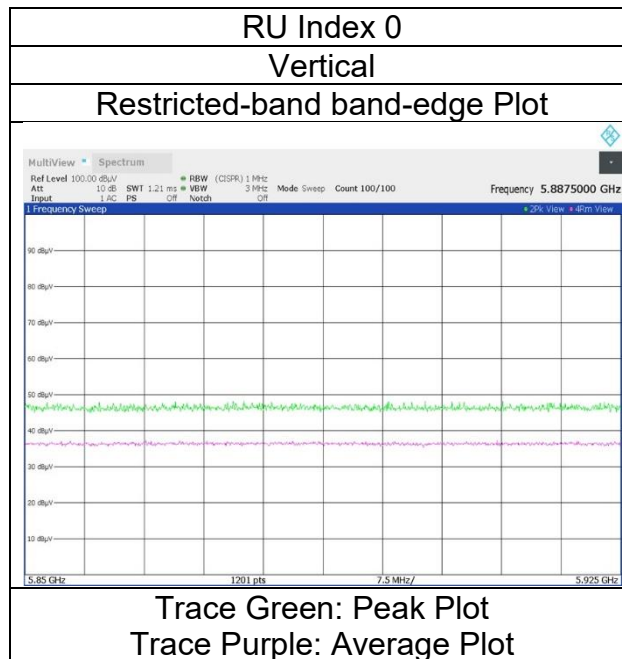
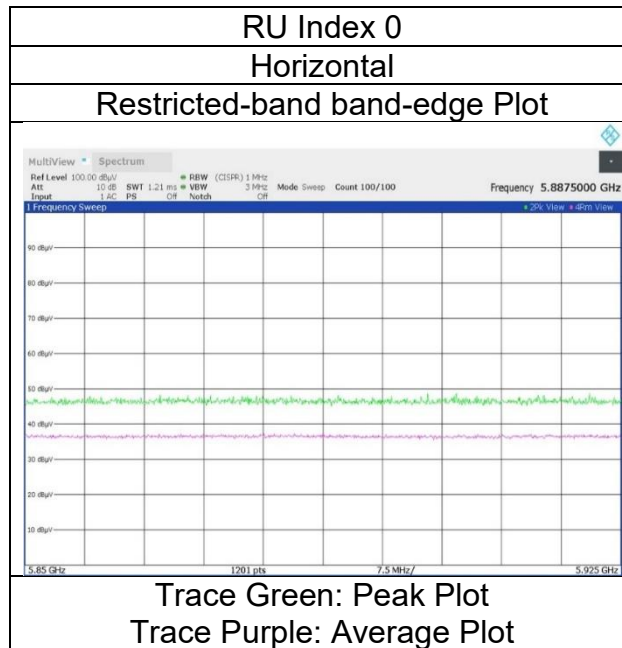
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 26-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 36

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.24	36.14	-24.19	-	0.00	2.10	60.29	-34.94	-7.0	27.9	252	182	-
Hori.	7125.000	AV	35.30	36.14	-24.19	-	0.00	2.10	49.35	-45.88	-27.0	18.8	252	182	-
Vert.	7125.000	PK	45.90	36.14	-24.19	-	0.00	2.10	59.95	-35.28	-7.0	28.2	146	192	-
Vert.	7125.000	AV	36.03	36.14	-24.19	-	0.00	2.10	50.08	-45.15	-27.0	18.1	146	192	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

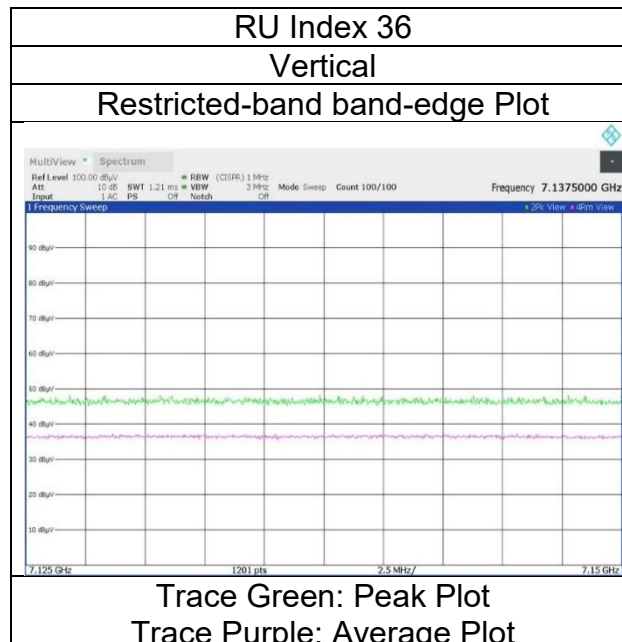
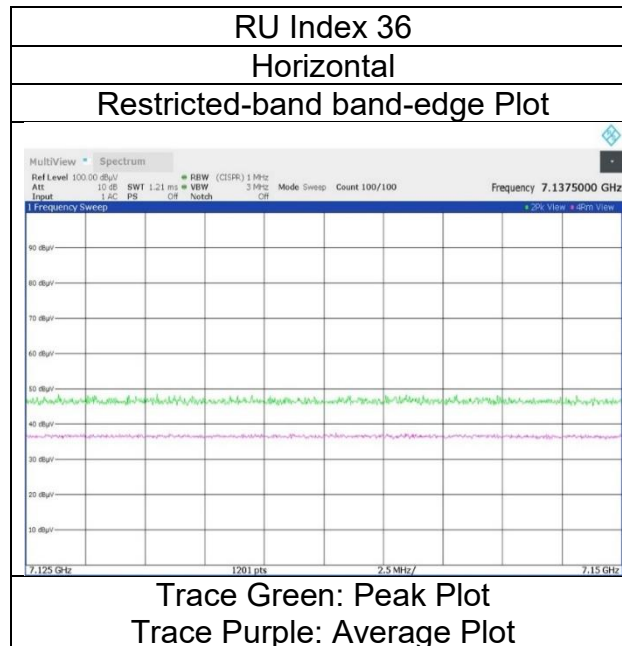
10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.08	32.46	-24.99	-	0.00	2.10	55.65	-39.58	-7.0	32.5	151	358	-
Hori.	5925.000	AV	35.60	32.46	-24.99	-	0.00	2.10	45.17	-50.06	-27.0	23.0	151	358	-
Vert.	5925.000	PK	46.40	32.46	-24.99	-	0.00	2.10	55.97	-39.26	-7.0	32.2	111	351	-
Vert.	5925.000	AV	36.08	32.46	-24.99	-	0.00	2.10	45.65	-49.58	-27.0	22.5	111	351	-

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

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

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

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

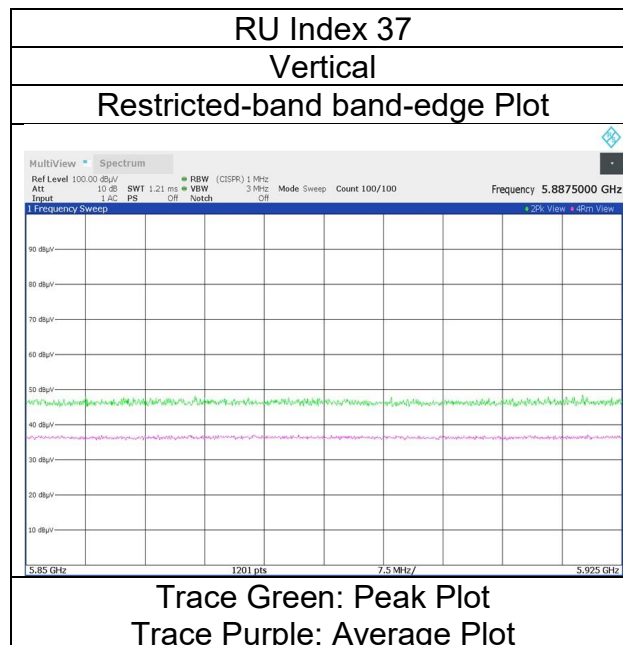
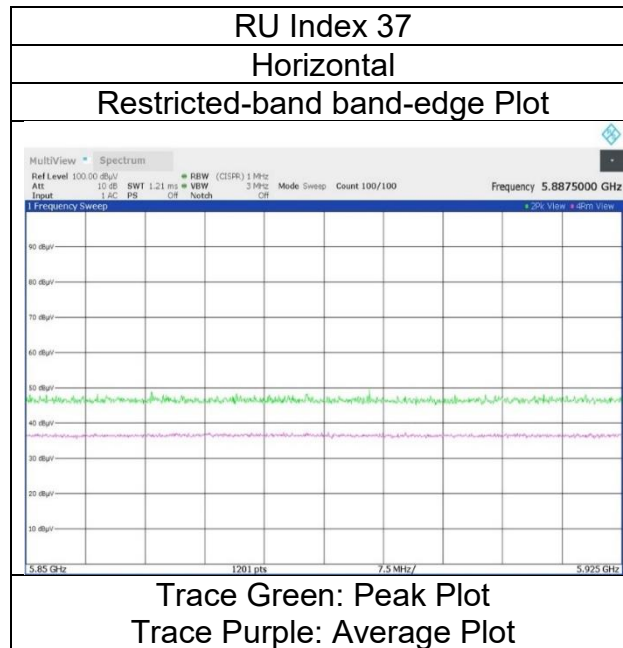
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 52

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.53	36.14	-24.19	-	0.00	2.10	60.58	-34.65	-7.0	27.6	252	189	-
Hori.	7125.000	AV	35.59	36.14	-24.19	-	0.00	2.10	49.64	-45.59	-27.0	18.5	252	189	-
Vert.	7125.000	PK	47.63	36.14	-24.19	-	0.00	2.10	61.68	-33.55	-7.0	26.5	147	192	-
Vert.	7125.000	AV	36.08	36.14	-24.19	-	0.00	2.10	50.13	-45.10	-27.0	18.1	147	192	-

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

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

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

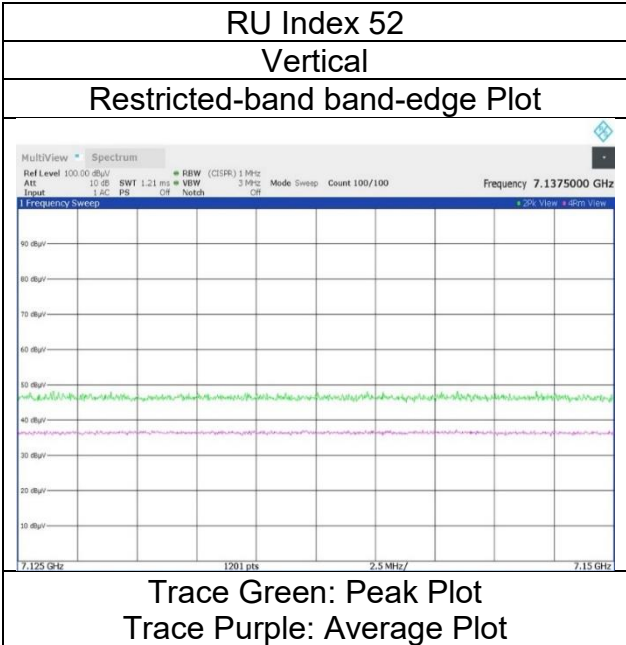
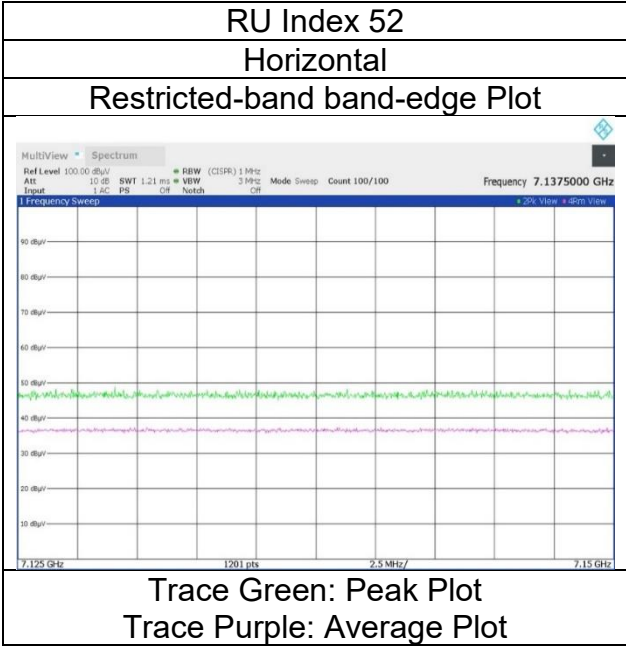
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 21, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 53

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.14	32.46	-24.99	-	0.00	2.10	55.71	-39.52	-7.0	32.5	141	358	-
Hori.	5925.000	AV	35.08	32.46	-24.99	-	0.25	2.10	44.90	-50.33	-27.0	23.3	141	358	-
Vert.	5925.000	PK	45.64	32.46	-24.99	-	0.00	2.10	55.21	-40.02	-7.0	33.0	239	359	-
Vert.	5925.000	AV	36.04	32.46	-24.99	-	0.25	2.10	45.86	-49.37	-27.0	22.3	239	359	-

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

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

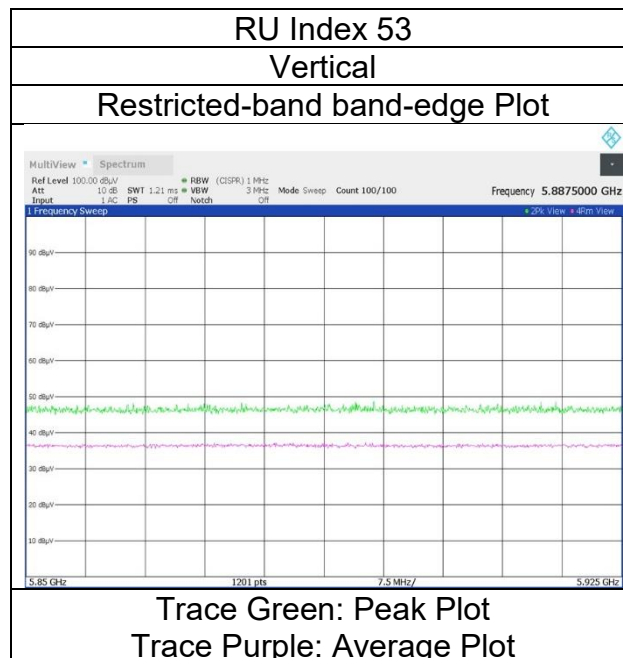
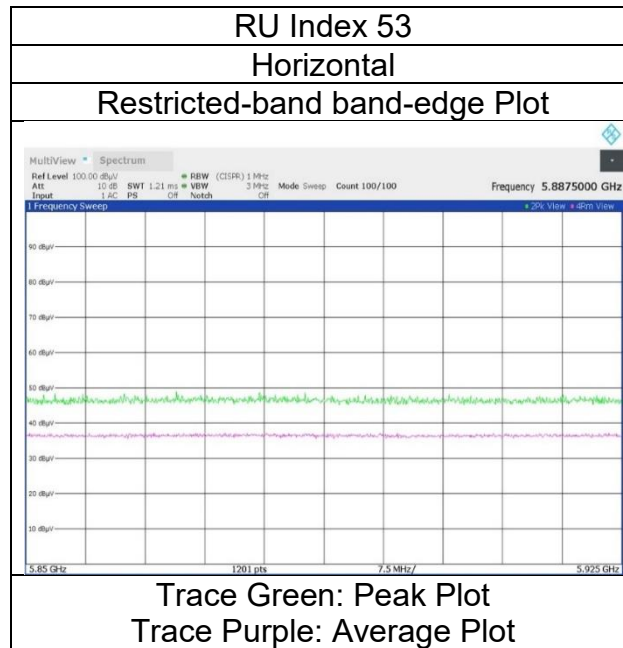
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 60

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.54	36.14	-24.19	-	0.00	2.10	60.59	-34.64	-7.0	27.6	151	347	-
Hori.	7125.000	AV	35.54	36.14	-24.19	-	0.25	2.10	49.84	-45.39	-27.0	18.3	151	347	-
Vert.	7125.000	PK	45.89	36.14	-24.19	-	0.00	2.10	59.94	-35.29	-7.0	28.2	150	195	-
Vert.	7125.000	AV	36.03	36.14	-24.19	-	0.25	2.10	50.33	-44.90	-27.0	17.9	150	195	-

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

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

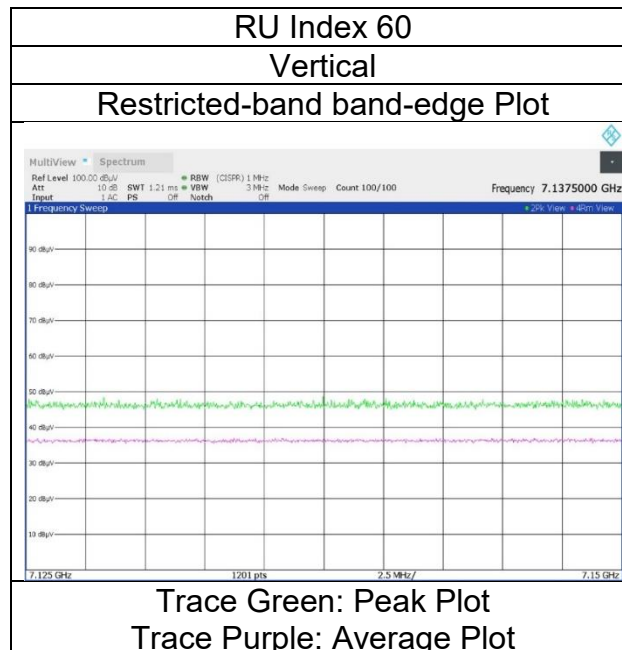
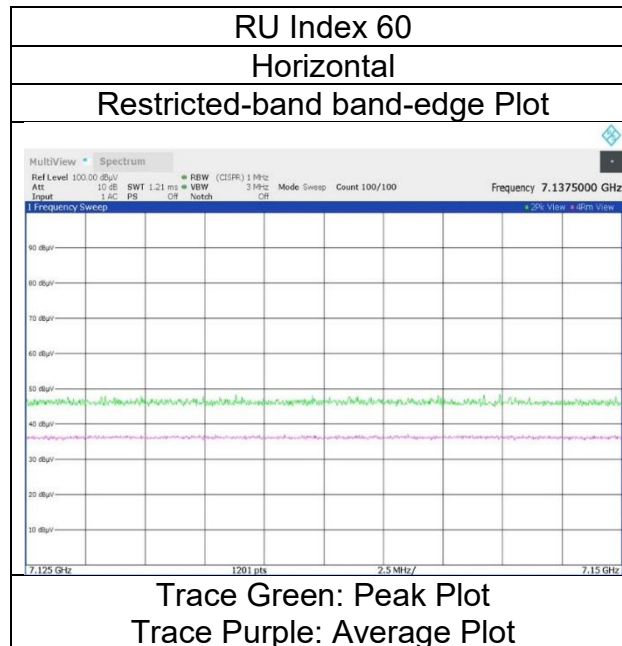
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.41	32.46	-24.99	-	0.00	2.10	55.98	-39.25	-7.0	32.2	150	358	-
Hori.	5925.000	AV	35.80	32.46	-24.99	-	0.00	2.10	45.37	-49.86	-27.0	22.8	150	358	-
Vert.	5925.000	PK	47.33	32.46	-24.99	-	0.00	2.10	56.90	-38.33	-7.0	31.3	236	359	-
Vert.	5925.000	AV	35.82	32.46	-24.99	-	0.00	2.10	45.39	-49.84	-27.0	22.8	236	359	-

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

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

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

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

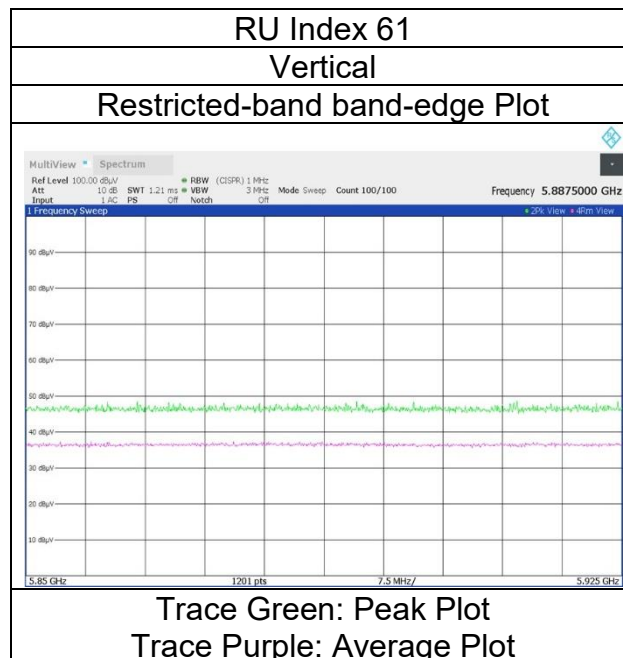
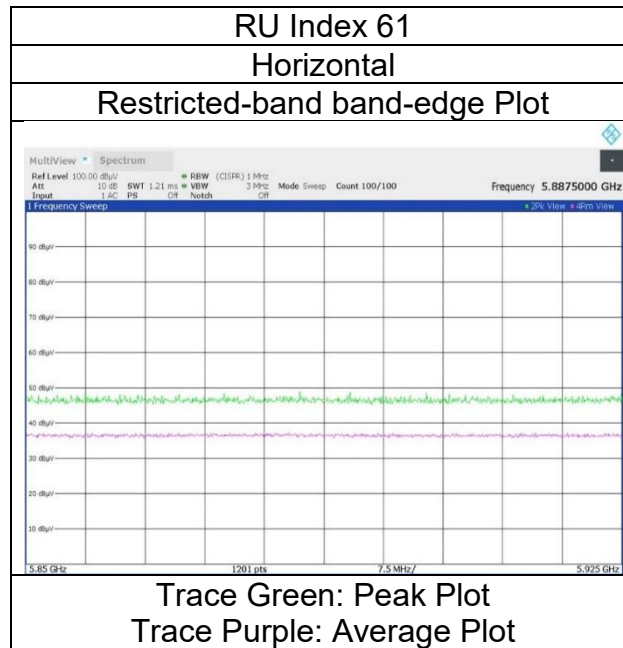
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 64

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.06	36.14	-24.19	-	0.00	2.10	60.11	-35.12	-7.0	28.1	253	186	-
Hori.	7125.000	AV	35.98	36.14	-24.19	-	0.00	2.10	50.03	-45.20	-27.0	18.2	253	186	-
Vert.	7125.000	PK	46.11	36.14	-24.19	-	0.00	2.10	60.16	-35.07	-7.0	28.0	146	191	-
Vert.	7125.000	AV	34.94	36.14	-24.19	-	0.00	2.10	48.99	-46.24	-27.0	19.2	146	191	-

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

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

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

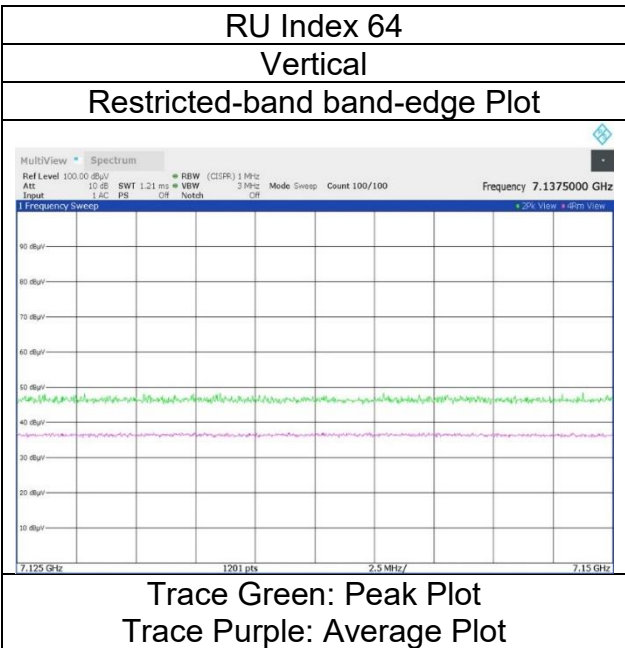
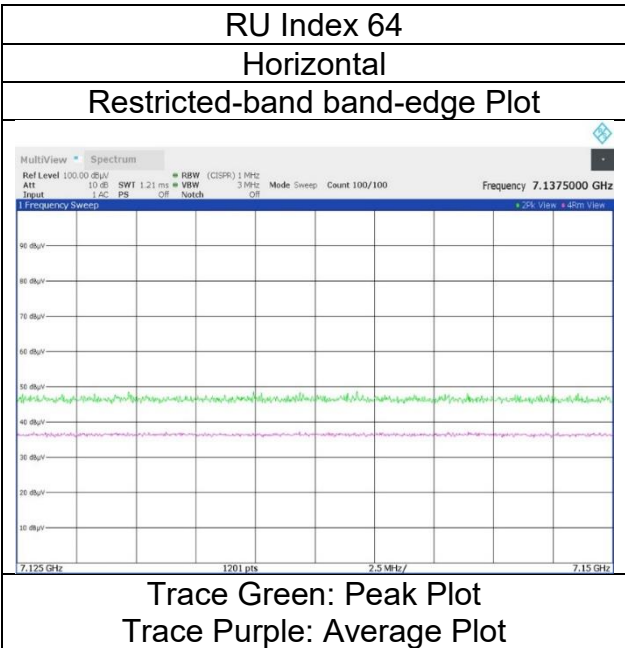
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024 May 30, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH
Engineer Yohsuke Matsuzawa Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11970.000	PK	47.53	38.60	-25.69	-	-9.54	50.90	73.9	23.0	150	0	Floor Noise
Hori.	17955.000	PK	47.72	40.36	-21.50	-	-9.54	57.04	73.9	16.8	150	0	Floor Noise
Hori.	11970.000	AV	35.65	38.60	-25.69	-	-9.54	39.02	53.9	14.8	150	0	Floor Noise
Hori.	17955.000	AV	35.77	40.36	-21.50	-	-9.54	45.09	53.9	8.8	150	0	Floor Noise
Vert.	11970.000	PK	47.37	38.60	-25.69	-	-9.54	50.74	73.9	23.1	150	0	Floor Noise
Vert.	17955.000	PK	47.60	40.36	-21.50	-	-9.54	56.92	73.9	16.9	150	0	Floor Noise
Vert.	11970.000	AV	35.70	38.60	-25.69	-	-9.54	39.07	53.9	14.8	150	0	Floor Noise
Vert.	17955.000	AV	35.75	40.36	-21.50	-	-9.54	45.07	53.9	8.8	150	0	Floor Noise

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 (3.820 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.97	32.46	-24.99	-	0.00	2.10	56.54	-38.69	-7.0	31.6	150	358	-
Hori.	5925.000	AV	35.62	32.46	-24.99	-	0.00	2.10	45.19	-50.04	-27.0	23.0	150	358	-
Vert.	5925.000	PK	46.85	32.46	-24.99	-	0.00	2.10	56.42	-38.81	-7.0	31.8	218	358	-
Vert.	5925.000	AV	35.91	32.46	-24.99	-	0.00	2.10	45.48	-49.75	-27.0	22.7	218	358	-

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

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

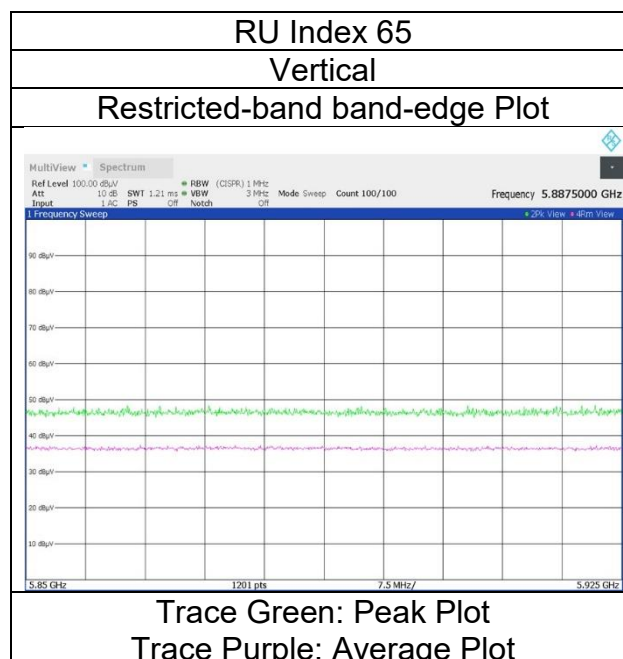
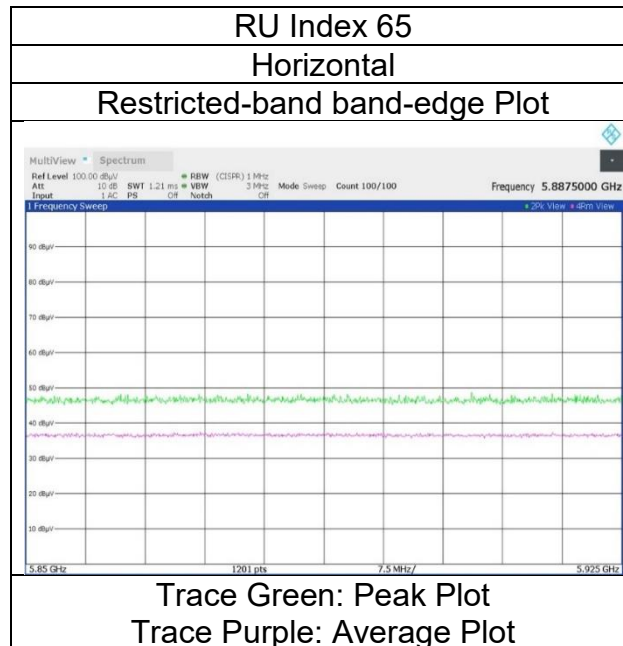
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6385 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 66

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12770.000	PK	47.18	38.53	-24.97	-	0.00	-9.54	51.20	-44.03	-7.0	37.0	150	0	Floor Noise
Hori.	12770.000	AV	35.58	38.53	-24.97	-	0.00	-9.54	39.60	-55.63	-27.0	28.6	150	0	Floor Noise
Vert.	12770.000	PK	47.64	38.53	-24.97	-	0.00	-9.54	51.66	-43.57	-7.0	36.5	150	0	Floor Noise
Vert.	12770.000	AV	35.57	38.53	-24.97	-	0.00	-9.54	39.59	-55.64	-27.0	28.6	150	0	Floor Noise

1 GHz - 18 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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6465 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12930.000	PK	47.82	38.76	-24.91	-	0.00	-9.54	52.13	-43.10	-7.0	36.1	150	0	Floor Noise
Hori.	12930.000	AV	35.98	38.76	-24.91	-	0.00	-9.54	40.29	-54.94	-27.0	27.9	150	0	Floor Noise
Vert.	12930.000	PK	47.78	38.76	-24.91	-	0.00	-9.54	52.09	-43.14	-7.0	36.1	150	0	Floor Noise
Vert.	12930.000	AV	35.95	38.76	-24.91	-	0.00	-9.54	40.26	-54.97	-27.0	27.9	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6465 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 66

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12930.000	PK	47.78	38.76	-24.91	-	0.00	-9.54	52.09	-43.14	-7.0	36.1	150	0	Floor Noise
Hori.	12930.000	AV	35.76	38.76	-24.91	-	0.00	-9.54	40.07	-55.16	-27.0	28.1	150	0	Floor Noise
Vert.	12930.000	PK	47.43	38.76	-24.91	-	0.00	-9.54	51.74	-43.49	-7.0	36.4	150	0	Floor Noise
Vert.	12930.000	AV	35.82	38.76	-24.91	-	0.00	-9.54	40.13	-55.10	-27.0	28.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6545 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13090.000	PK	47.67	38.86	-24.82	-	0.00	-9.54	52.17	-43.06	-7.0	36.0	150	0	Floor Noise
Hori.	13090.000	AV	35.75	38.86	-24.82	-	0.00	-9.54	40.25	-54.98	-27.0	27.9	150	0	Floor Noise
Vert.	13090.000	PK	47.61	38.86	-24.82	-	0.00	-9.54	52.11	-43.12	-7.0	36.1	150	0	Floor Noise
Vert.	13090.000	AV	35.78	38.86	-24.82	-	0.00	-9.54	40.28	-54.95	-27.0	27.9	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6865 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 66

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13730.000	PK	48.02	39.07	-24.70	-	0.00	-9.54	52.85	-42.38	-7.0	35.3	150	0	Floor Noise
Hori.	13730.000	AV	35.76	39.07	-24.70	-	0.00	-9.54	40.59	-54.64	-27.0	27.6	150	0	Floor Noise
Vert.	13730.000	PK	47.93	39.07	-24.70	-	0.00	-9.54	52.76	-42.47	-7.0	35.4	150	0	Floor Noise
Vert.	13730.000	AV	35.70	39.07	-24.70	-	0.00	-9.54	40.53	-54.70	-27.0	27.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6945 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13890.000	PK	47.74	39.08	-24.74	-	0.00	-9.54	52.54	-42.69	-7.0	35.6	150	0	Floor Noise
Hori.	13890.000	AV	35.91	39.08	-24.74	-	0.00	-9.54	40.71	-54.52	-27.0	27.5	150	0	Floor Noise
Vert.	13890.000	PK	47.43	39.08	-24.74	-	0.00	-9.54	52.23	-43.00	-7.0	36.0	150	0	Floor Noise
Vert.	13890.000	AV	36.05	39.08	-24.74	-	0.00	-9.54	40.85	-54.38	-27.0	27.3	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 22, 2024 May 30, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH
Engineer Yohsuke Matsuzawa Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 66

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.11	36.14	-24.19	-	0.00	2.10	60.16	-35.07	-7.0	28.0	252	186	-
Hori.	14050.000	PK	47.77	39.04	-24.76	-	0.00	-9.54	52.51	-42.72	-7.0	35.7	150	0	Floor Noise
Hori.	7125.000	AV	35.42	36.14	-24.19	-	0.00	2.10	49.47	-45.76	-27.0	18.7	252	186	-
Hori.	14050.000	AV	36.19	39.04	-24.76	-	0.00	-9.54	40.93	-54.30	-27.0	27.3	150	0	Floor Noise
Vert.	7125.000	PK	46.39	36.14	-24.19	-	0.00	2.10	60.44	-34.79	-7.0	27.7	127	195	-
Vert.	14050.000	PK	47.39	39.04	-24.76	-	0.00	-9.54	52.13	-43.10	-7.0	36.1	150	0	Floor Noise
Vert.	7125.000	AV	35.85	36.14	-24.19	-	0.00	2.10	49.90	-45.33	-27.0	18.3	127	195	-
Vert.	14050.000	AV	36.12	39.04	-24.76	-	0.00	-9.54	40.86	-54.37	-27.0	27.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

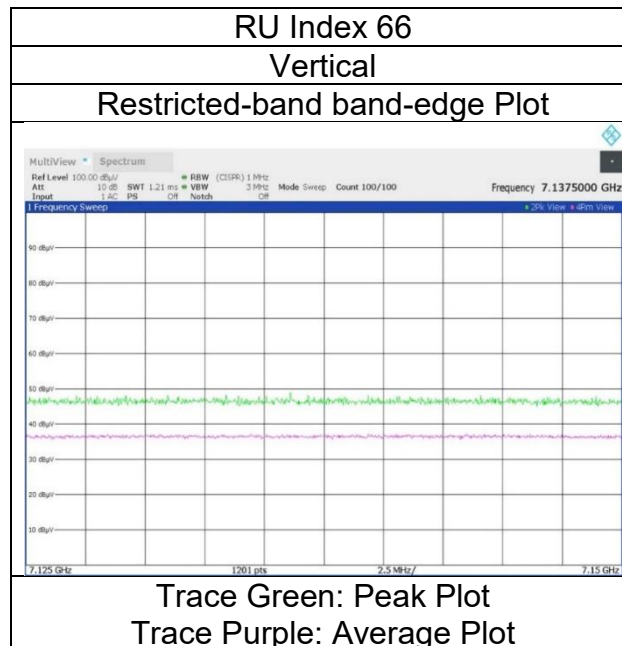
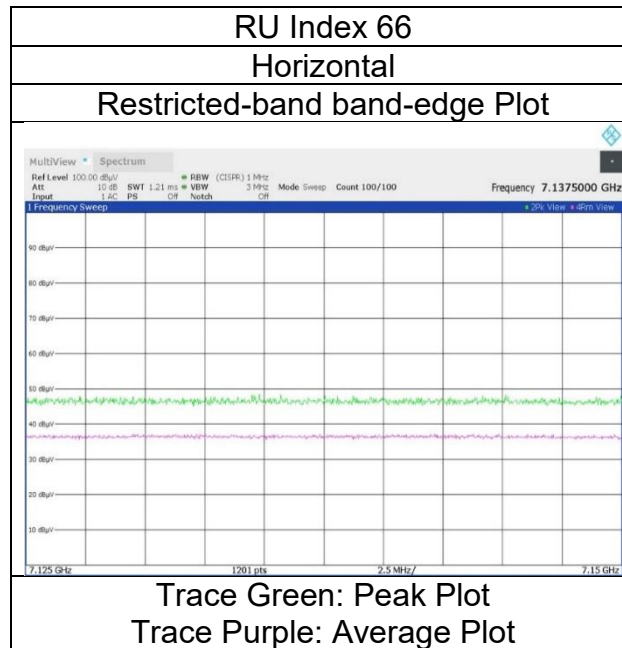
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



* 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 May 22, 2024 May 30, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH
Engineer Yohsuke Matsuzawa Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11970.000	PK	45.67	38.60	-25.69	-	-9.54	49.04	73.9	24.8	150	0	Floor Noise
Hori.	17955.000	PK	45.32	40.36	-21.50	-	-9.54	54.64	73.9	19.2	150	0	Floor Noise
Hori.	11970.000	AV	33.80	38.60	-25.69	-	-9.54	37.17	53.9	16.7	150	0	Floor Noise
Hori.	17955.000	AV	34.77	40.36	-21.50	-	-9.54	44.09	53.9	9.8	150	0	Floor Noise
Vert.	11970.000	PK	46.10	38.60	-25.69	-	-9.54	49.47	73.9	24.4	150	0	Floor Noise
Vert.	17955.000	PK	45.73	40.36	-21.50	-	-9.54	55.05	73.9	18.8	150	0	Floor Noise
Vert.	11970.000	AV	34.04	38.60	-25.69	-	-9.54	37.41	53.9	16.4	150	0	Floor Noise
Vert.	17955.000	AV	34.34	40.36	-21.50	-	-9.54	43.66	53.9	10.2	150	0	Floor Noise

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 (3.820 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.96	32.46	-24.99	-	0.00	2.10	56.53	-38.70	-7.0	31.7	150	358	-
Hori.	5925.000	AV	36.50	32.46	-24.99	-	0.00	2.10	46.07	-49.16	-27.0	22.1	150	358	-
Vert.	5925.000	PK	50.40	32.46	-24.99	-	0.00	2.10	59.97	-35.26	-7.0	28.2	170	354	-
Vert.	5925.000	AV	36.93	32.46	-24.99	-	0.00	2.10	46.50	-48.73	-27.0	21.7	170	354	-

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

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

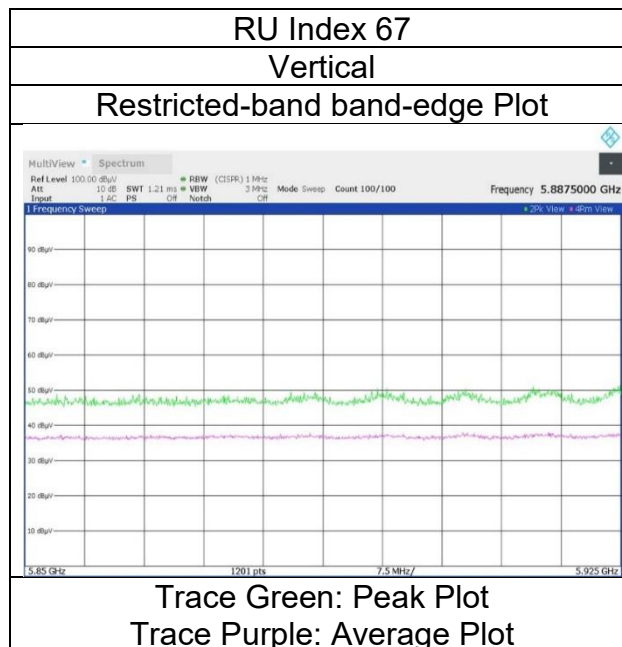
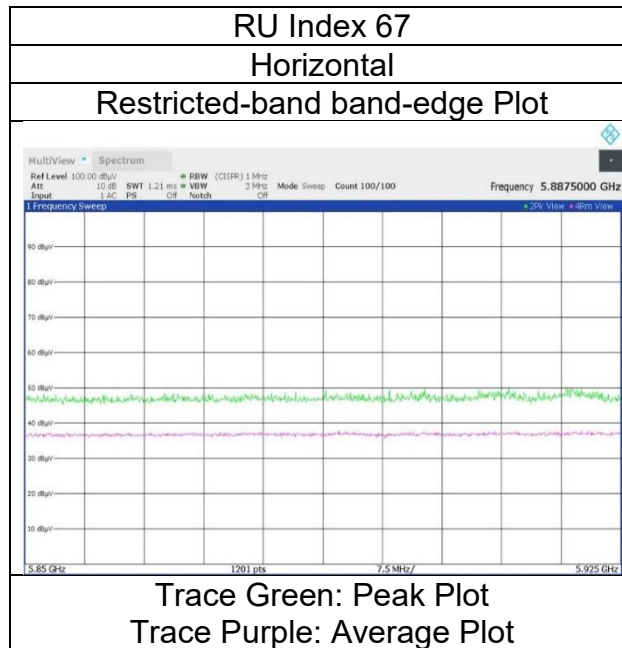
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6385 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12770.000	PK	45.74	38.53	-24.97	-	0.00	-9.54	49.76	-45.47	-7.0	38.4	150	0	Floor Noise
Hori.	12770.000	AV	34.03	38.53	-24.97	-	0.00	-9.54	38.05	-57.18	-27.0	30.1	150	0	Floor Noise
Vert.	12770.000	PK	46.58	38.53	-24.97	-	0.00	-9.54	50.60	-44.63	-7.0	37.6	150	0	Floor Noise
Vert.	12770.000	AV	34.35	38.53	-24.97	-	0.00	-9.54	38.37	-56.86	-27.0	29.8	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6465 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12930.000	PK	47.78	38.76	-24.91	-	0.00	-9.54	52.09	-43.14	-7.0	36.1	150	0	Floor Noise
Hori.	12930.000	AV	35.76	38.76	-24.91	-	0.00	-9.54	40.07	-55.16	-27.0	28.1	150	0	Floor Noise
Vert.	12930.000	PK	47.43	38.76	-24.91	-	0.00	-9.54	51.74	-43.49	-7.0	36.4	150	0	Floor Noise
Vert.	12930.000	AV	35.82	38.76	-24.91	-	0.00	-9.54	40.13	-55.10	-27.0	28.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6545 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13090.000	PK	46.26	38.86	-24.82	-	0.00	-9.54	50.76	-44.47	-7.0	37.4	150	0	Floor Noise
Hori.	13090.000	AV	34.65	38.86	-24.82	-	0.00	-9.54	39.15	-56.08	-27.0	29.0	150	0	Floor Noise
Vert.	13090.000	PK	45.82	38.86	-24.82	-	0.00	-9.54	50.32	-44.91	-7.0	37.9	150	0	Floor Noise
Vert.	13090.000	AV	34.18	38.86	-24.82	-	0.00	-9.54	38.68	-56.55	-27.0	29.5	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6865 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13730.000	PK	45.57	39.07	-24.70	-	0.00	-9.54	50.40	-44.83	-7.0	37.8	150	0	Floor Noise
Hori.	13730.000	AV	34.35	39.07	-24.70	-	0.00	-9.54	39.18	-56.05	-27.0	29.0	150	0	Floor Noise
Vert.	13730.000	PK	45.52	39.07	-24.70	-	0.00	-9.54	50.35	-44.88	-7.0	37.8	150	0	Floor Noise
Vert.	13730.000	AV	34.58	39.07	-24.70	-	0.00	-9.54	39.41	-55.82	-27.0	28.8	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 6, 2024 May 30, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH
Engineer Kouki Yamada Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6945 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13890.000	PK	45.88	39.08	-24.74	-	0.00	-9.54	50.68	-44.55	-7.0	37.5	150	0	Floor Noise
Hori.	13890.000	AV	34.18	39.08	-24.74	-	0.00	-9.54	38.98	-56.25	-27.0	29.2	150	0	Floor Noise
Vert.	13890.000	PK	45.82	39.08	-24.74	-	0.00	-9.54	50.62	-44.61	-7.0	37.6	150	0	Floor Noise
Vert.	13890.000	AV	34.28	39.08	-24.74	-	0.00	-9.54	39.08	-56.15	-27.0	29.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 23, 2024 May 30, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH
Engineer Yohsuke Matsuzawa Makoto Hosaka
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.28	36.14	-24.19	-	0.00	2.10	61.33	-33.90	-7.0	26.9	252	186	-
Hori.	14050.000	PK	45.91	39.04	-24.76	-	0.00	-9.54	50.65	-44.58	-7.0	37.5	150	0	Floor Noise
Hori.	7125.000	AV	35.56	36.14	-24.19	-	0.00	2.10	49.61	-45.62	-27.0	18.6	252	186	-
Hori.	14050.000	AV	34.19	39.04	-24.76	-	0.00	-9.54	38.93	-56.30	-27.0	29.3	150	0	Floor Noise
Vert.	7125.000	PK	45.43	36.14	-24.19	-	0.00	2.10	59.48	-35.75	-7.0	28.7	150	200	-
Vert.	14050.000	PK	45.84	39.04	-24.76	-	0.00	-9.54	50.58	-44.65	-7.0	37.6	150	0	Floor Noise
Vert.	7125.000	AV	36.16	36.14	-24.19	-	0.00	2.10	50.21	-45.02	-27.0	18.0	150	200	-
Vert.	14050.000	AV	34.28	39.04	-24.76	-	0.00	-9.54	39.02	-56.21	-27.0	29.2	150	0	Floor Noise

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

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

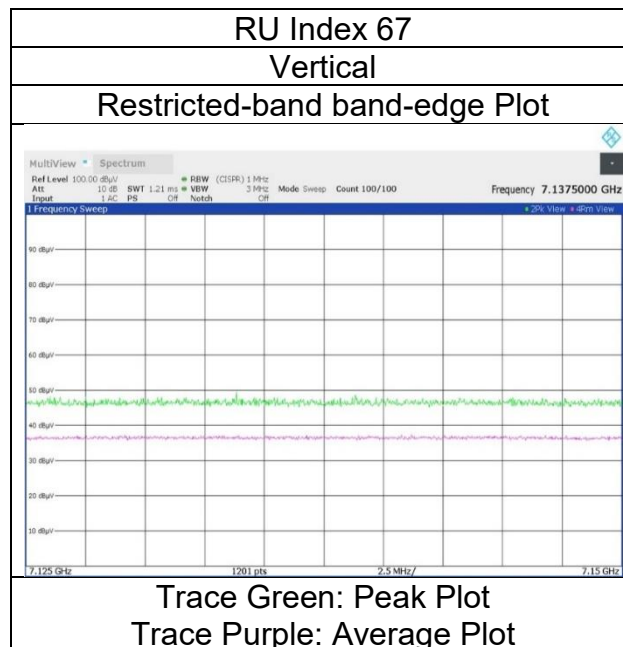
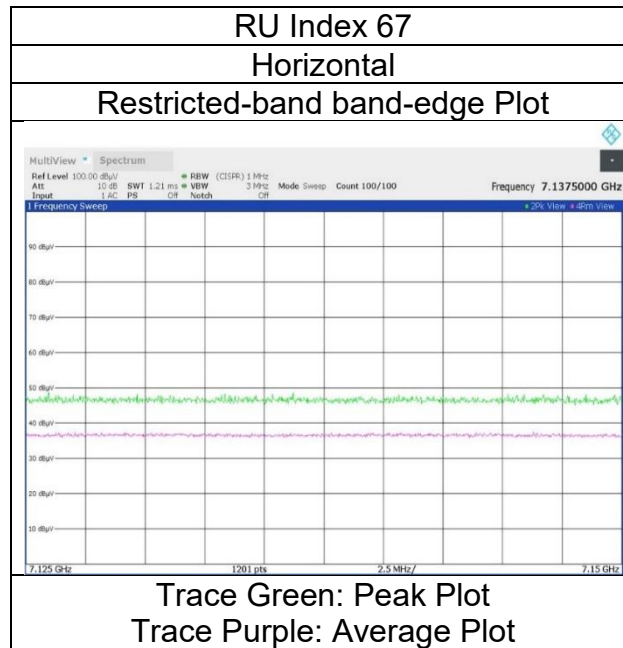
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Shonan EMC Lab.
WAC1
May 23, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 26-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.09	32.46	-24.99	-	0.00	2.10	56.66	-38.57	-7.0	31.5	167	340	-
Hori.	5925.000	AV	35.52	32.46	-24.99	-	0.00	2.10	45.09	-50.14	-27.0	23.1	167	340	-
Vert.	5925.000	PK	46.50	32.46	-24.99	-	0.00	2.10	56.07	-39.16	-7.0	32.1	127	351	-
Vert.	5925.000	AV	35.38	32.46	-24.99	-	0.00	2.10	44.95	-50.28	-27.0	23.2	127	351	-

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

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

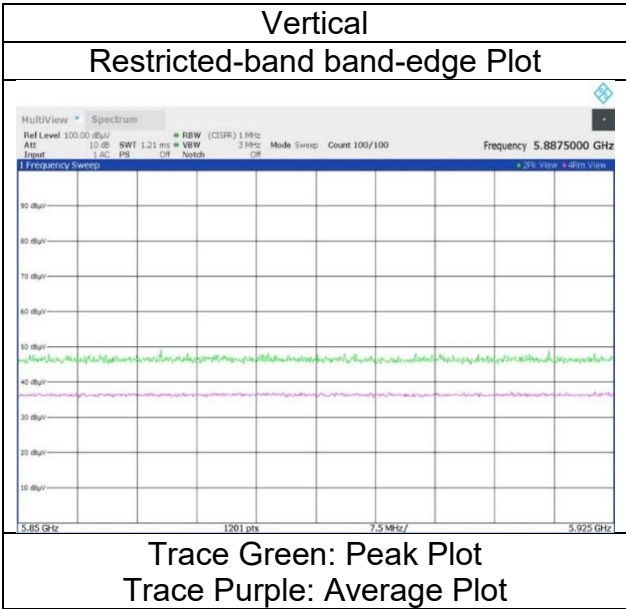
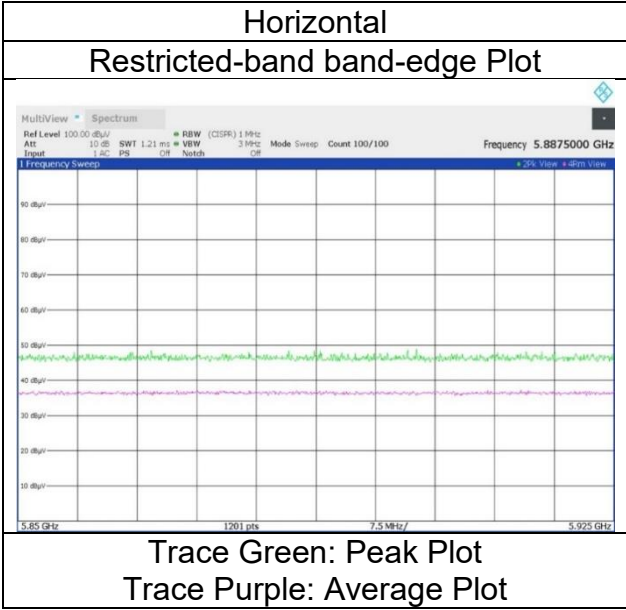
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 26-tone RU, 6025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 0 / 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
Date May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 26-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 36

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.76	36.14	-24.19	-	0.00	2.10	60.81	-34.42	-7.0	27.4	151	328	-
Hori.	7125.000	AV	34.99	36.14	-24.19	-	0.00	2.10	49.04	-46.19	-27.0	19.1	151	328	-
Vert.	7125.000	PK	46.29	36.14	-24.19	-	0.00	2.10	60.34	-34.89	-7.0	27.8	132	192	-
Vert.	7125.000	AV	35.23	36.14	-24.19	-	0.00	2.10	49.28	-45.95	-27.0	18.9	132	192	-

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

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

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

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

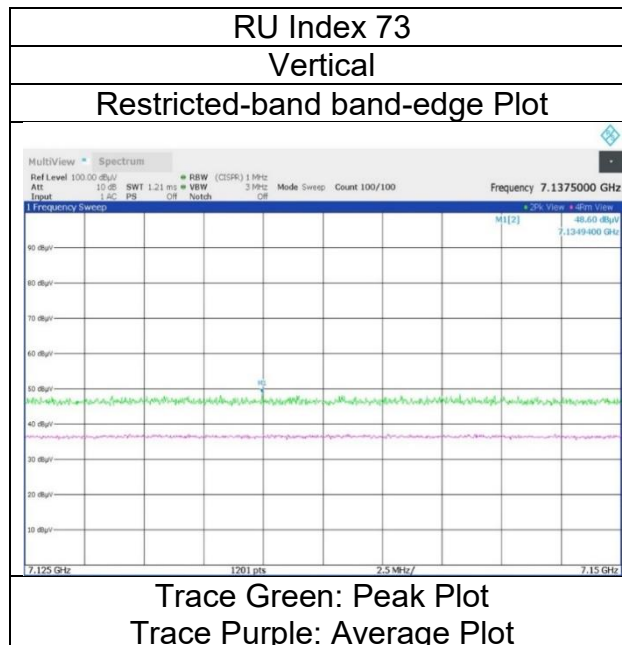
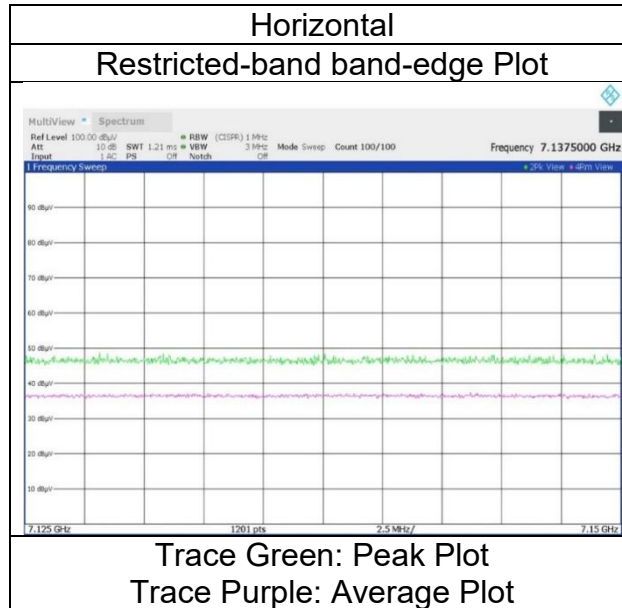
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 26-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 36



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 52-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.19	32.46	-24.99	-	0.00	2.10	55.76	-39.47	-7.0	32.4	140	359	-
Hori.	5925.000	AV	36.09	32.46	-24.99	-	0.00	2.10	45.66	-49.57	-27.0	22.5	140	359	-
Vert.	5925.000	PK	46.52	32.46	-24.99	-	0.00	2.10	56.09	-39.14	-7.0	32.1	127	351	-
Vert.	5925.000	AV	36.24	32.46	-24.99	-	0.00	2.10	45.81	-49.42	-27.0	22.4	127	351	-

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

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

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

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

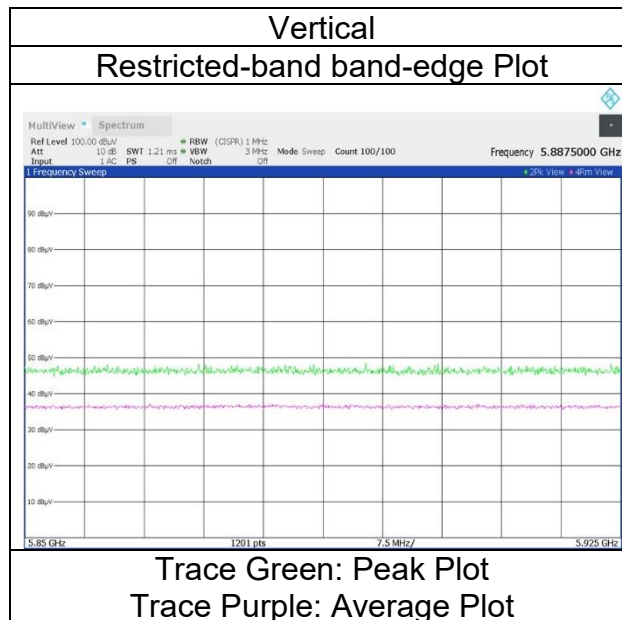
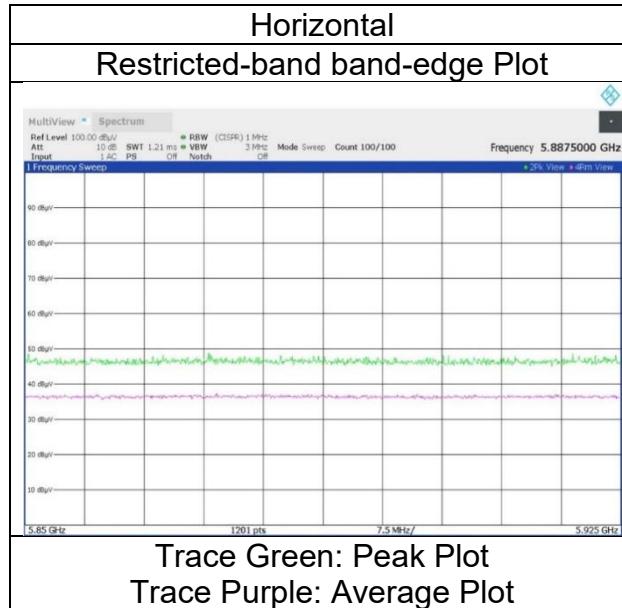
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 52-tone RU, 6025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 37



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 52-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 52

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.59	36.14	-24.19	-	0.00	2.10	60.64	-34.59	-7.0	27.5	152	348	-
Hori.	7125.000	AV	35.70	36.14	-24.19	-	0.00	2.10	49.75	-45.48	-27.0	18.4	152	348	-
Vert.	7125.000	PK	45.89	36.14	-24.19	-	0.00	2.10	59.94	-35.29	-7.0	28.2	147	188	-
Vert.	7125.000	AV	36.03	36.14	-24.19	-	0.00	2.10	50.08	-45.15	-27.0	18.1	147	188	-

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

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

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

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

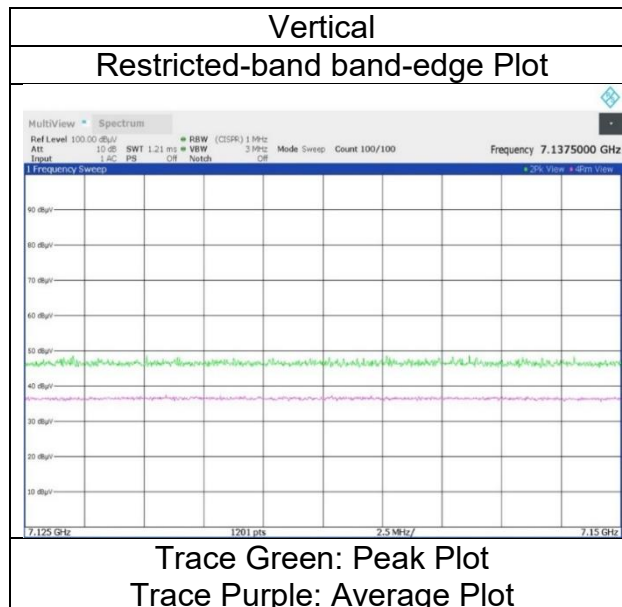
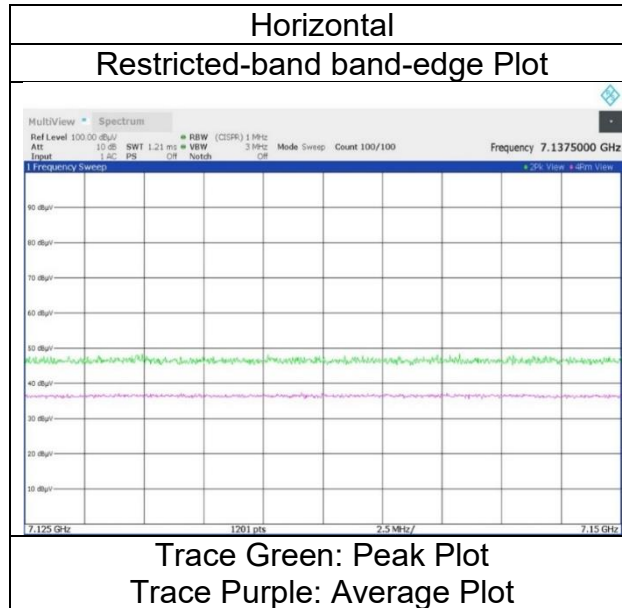
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 52-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 52



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 106-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.14	32.46	-24.99	-	0.00	2.10	55.71	-39.52	-7.0	32.5	141	358	-
Hori.	5925.000	AV	35.08	32.46	-24.99	-	1.00	2.10	45.65	-49.58	-27.0	22.5	141	358	-
Vert.	5925.000	PK	45.64	32.46	-24.99	-	0.00	2.10	55.21	-40.02	-7.0	33.0	239	359	-
Vert.	5925.000	AV	36.04	32.46	-24.99	-	1.00	2.10	46.61	-48.62	-27.0	21.6	239	359	-

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

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

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

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

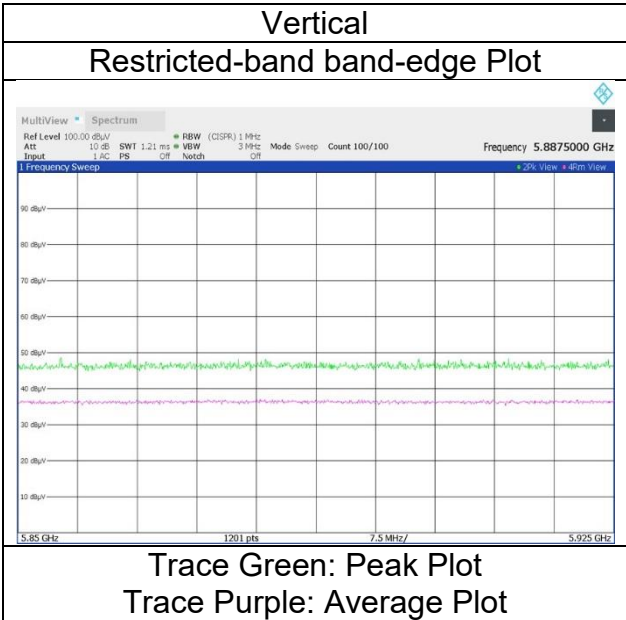
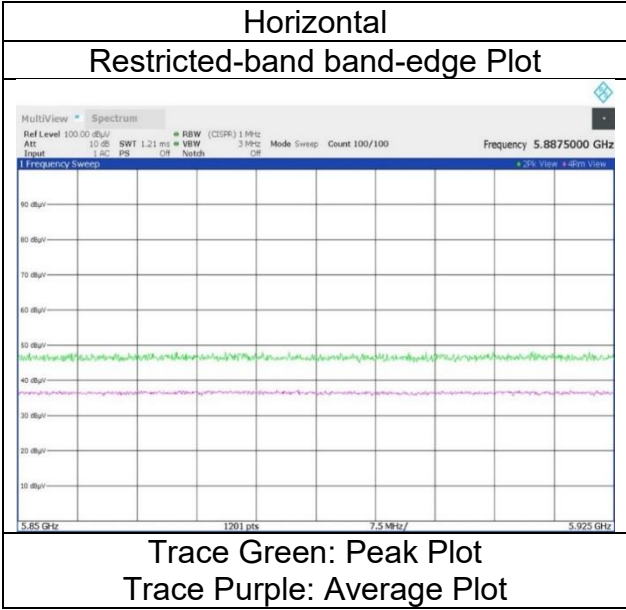
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 106-tone RU, 6025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 53



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 106-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment / Index 60

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.54	36.14	-24.19	-	0.00	2.10	60.59	-34.64	-7.0	27.6	151	347	-
Hori.	7125.000	AV	35.54	36.14	-24.19	-	1.00	2.10	50.59	-44.64	-27.0	17.6	151	347	-
Vert.	7125.000	PK	45.89	36.14	-24.19	-	0.00	2.10	59.94	-35.29	-7.0	28.2	150	195	-
Vert.	7125.000	AV	36.03	36.14	-24.19	-	1.00	2.10	51.08	-44.15	-27.0	17.1	150	195	-

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

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

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

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

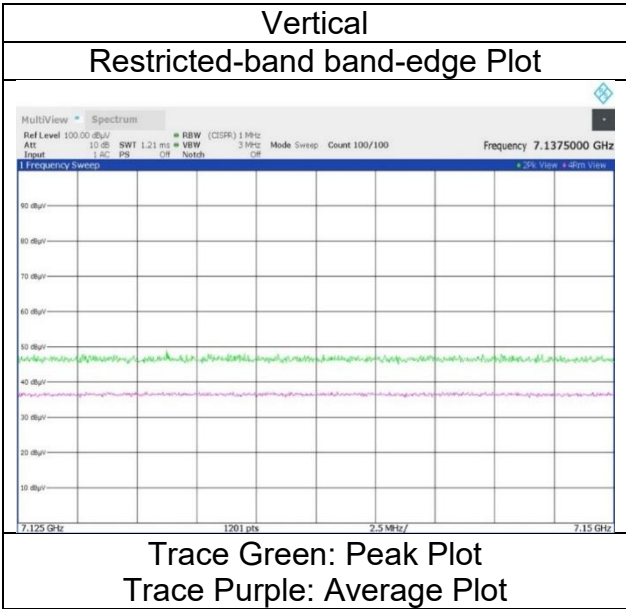
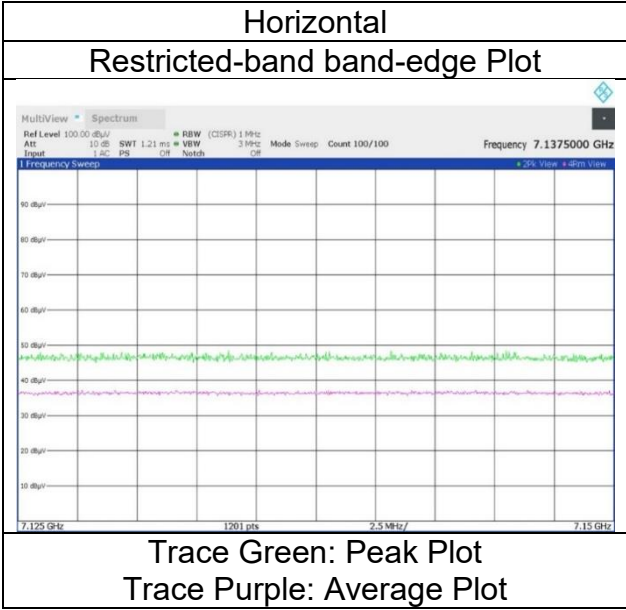
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 106-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 60



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.35	32.46	-24.99	-	0.00	2.10	56.92	-38.31	-7.0	31.3	160	357	-
Hori.	5925.000	AV	37.26	32.46	-24.99	-	0.00	2.10	46.83	-48.40	-27.0	21.4	160	357	-
Vert.	5925.000	PK	46.77	32.46	-24.99	-	0.00	2.10	56.34	-38.89	-7.0	31.8	252	359	-
Vert.	5925.000	AV	35.90	32.46	-24.99	-	0.00	2.10	45.47	-49.76	-27.0	22.7	252	359	-

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

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

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

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

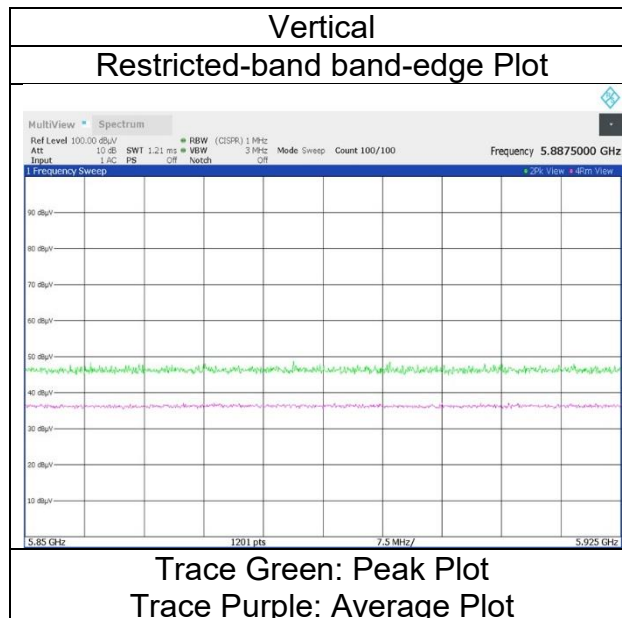
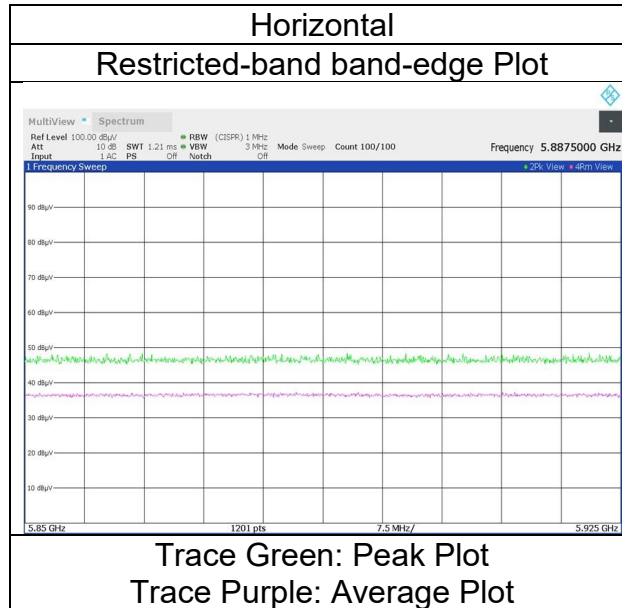
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 61



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 64

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.41	36.14	-24.19	-	0.00	2.10	60.46	-34.77	-7.0	27.7	150	341	-
Hori.	7125.000	AV	36.12	36.14	-24.19	-	0.00	2.10	50.17	-45.06	-27.0	18.0	150	341	-
Vert.	7125.000	PK	46.87	36.14	-24.19	-	0.00	2.10	60.92	-34.31	-7.0	27.3	150	195	-
Vert.	7125.000	AV	35.94	36.14	-24.19	-	0.00	2.10	49.99	-45.24	-27.0	18.2	150	195	-

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

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

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

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

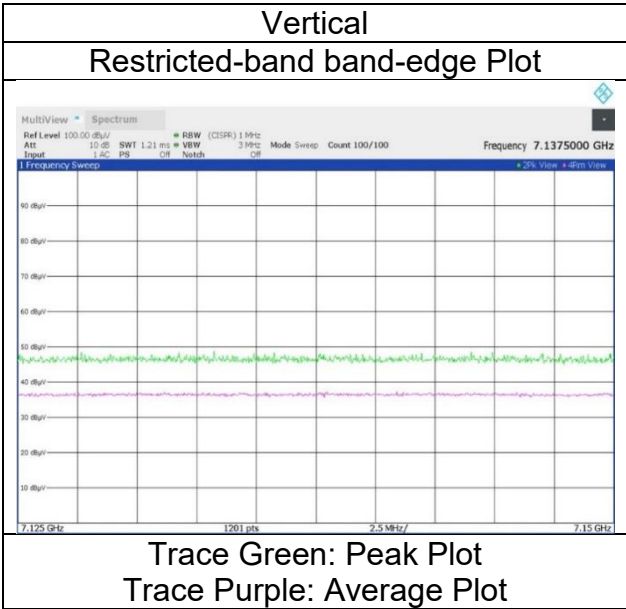
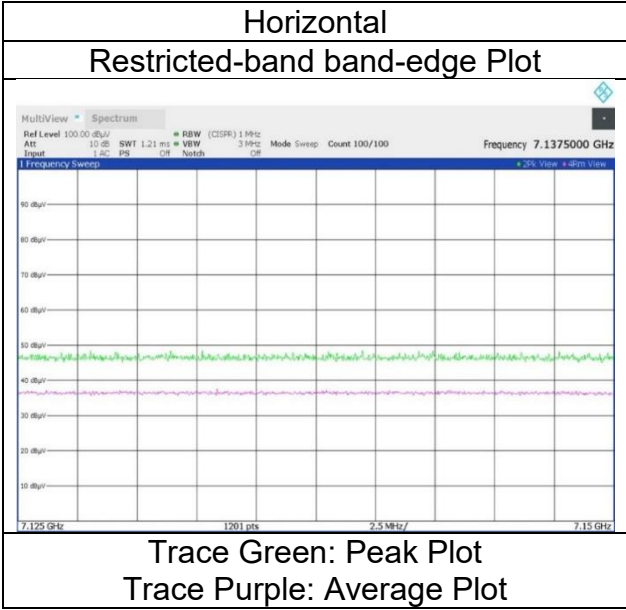
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 242-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole

Segment 1 / Index 64



* 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 484-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.95	33.53	-24.93	-	0.00	2.10	59.65	-35.58	-7.0	28.5	100	324	-
Hori.	5925.000	AV	37.03	33.53	-24.93	-	0.00	2.10	47.73	-47.50	-27.0	20.5	100	324	-
Vert.	5925.000	PK	48.87	33.53	-24.93	-	0.00	2.10	59.57	-35.66	-7.0	28.6	151	150	-
Vert.	5925.000	AV	36.89	33.53	-24.93	-	0.00	2.10	47.59	-47.64	-27.0	20.6	151	150	-

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

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

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

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

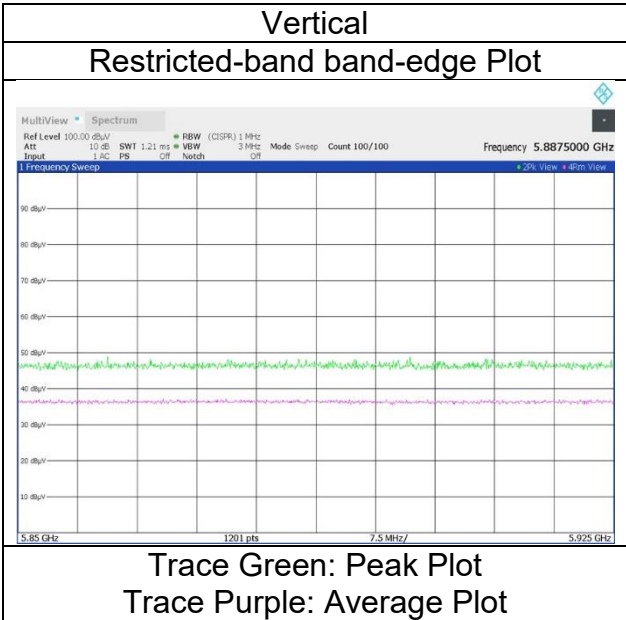
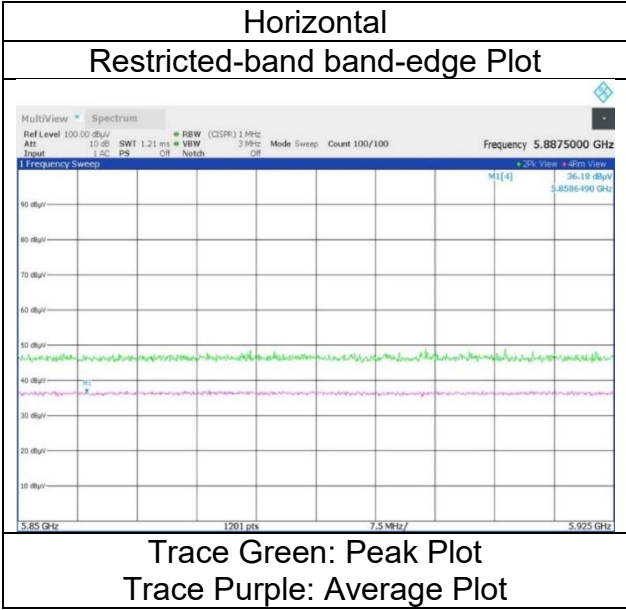
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 484-tone RU, 6025 MHz (CDD)
Antenna type	5G CH0: 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 484-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.14	36.14	-24.19	-	0.00	2.10	60.19	-35.04	-7.0	28.0	150	325	-
Hori.	7125.000	AV	36.55	36.14	-24.19	-	0.00	2.10	50.60	-44.63	-27.0	17.6	150	325	-
Vert.	7125.000	PK	46.47	36.14	-24.19	-	0.00	2.10	60.52	-34.71	-7.0	27.7	149	194	-
Vert.	7125.000	AV	35.10	36.14	-24.19	-	0.00	2.10	49.15	-46.08	-27.0	19.0	149	194	-

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

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

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

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

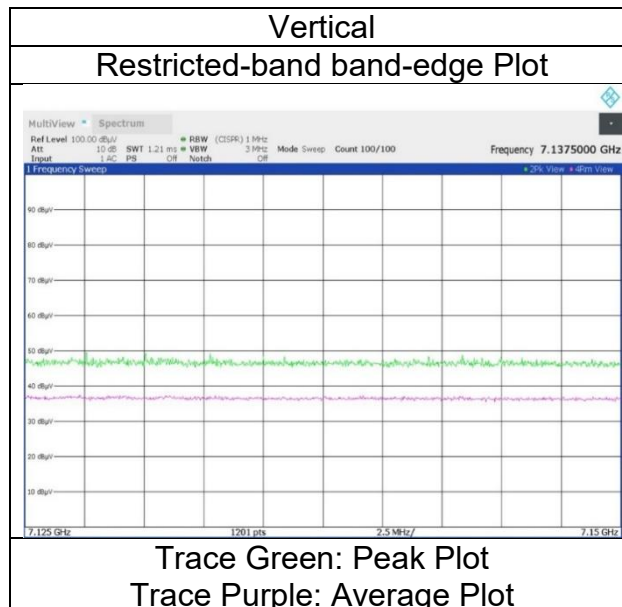
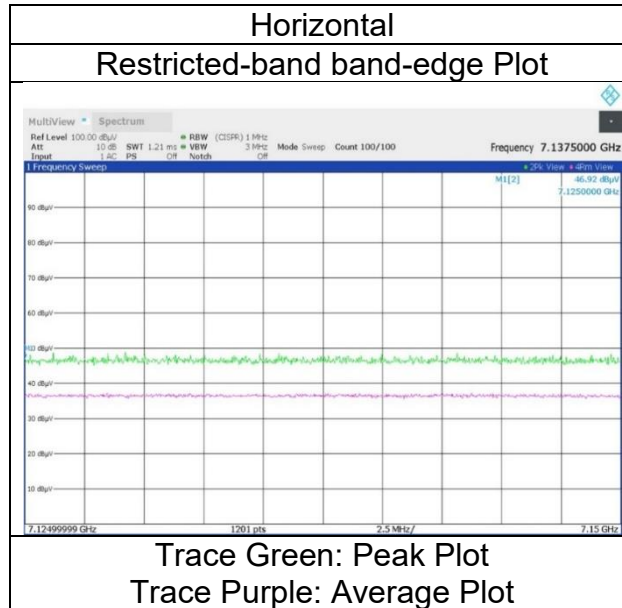
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 484-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: 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 WAC1 WAC1 WAC1
Date May 22, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Yohsuke Matsuzawa Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: 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.	12050.000	PK	46.30	38.65	-25.63	-	-9.54	49.78	73.9	24.1	150	0	Floor Noise
Hori.	18075.000	PK	41.37	39.82	13.77	48.47	-9.54	36.95	73.9	36.9	150	303	Floor Noise
Hori.	12050.000	AV	34.88	38.65	-25.63	-	-9.54	38.36	53.9	15.5	150	0	Floor Noise
Hori.	18075.000	AV	39.67	39.82	13.77	48.47	-9.54	35.25	53.9	18.6	150	303	Floor Noise
Vert.	12050.000	PK	46.27	38.65	-25.63	-	-9.54	49.75	73.9	24.1	150	0	Floor Noise
Vert.	18075.000	PK	41.10	39.82	13.77	48.47	-9.54	36.68	73.9	37.2	150	176	Floor Noise
Vert.	12050.000	AV	34.67	38.65	-25.63	-	-9.54	38.15	53.9	15.7	150	0	Floor Noise
Vert.	18075.000	AV	29.37	39.82	13.77	48.47	-9.54	24.95	53.9	28.9	150	176	Floor Noise

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.38	32.46	-24.99	-	0.00	2.10	55.95	-39.28	-7.0	32.2	150	351	-
Hori.	24100.000	PK	42.27	40.49	16.04	46.90	0.00	-9.54	42.36	-52.87	-7.0	45.8	169	202	-
Hori.	30125.000	PK	49.41	43.66	18.35	61.82	0.00	-9.54	40.06	-55.17	-7.0	48.1	150	0	Floor Noise
Hori.	36150.000	PK	50.45	43.45	20.40	61.91	0.00	-9.54	42.85	-52.38	-7.0	45.3	118	194	-
Hori.	5925.000	AV	36.08	32.46	-24.99	-	0.00	2.10	45.65	-49.58	-27.0	22.5	150	351	-
Hori.	24100.000	AV	31.92	40.49	16.04	46.90	0.00	-9.54	32.01	-63.22	-27.0	36.2	169	202	-
Hori.	30125.000	AV	37.46	43.66	18.35	61.82	0.00	-9.54	28.11	-67.12	-27.0	40.1	150	0	Floor Noise
Hori.	36150.000	AV	40.52	43.45	20.40	61.91	0.00	-9.54	32.92	-62.31	-27.0	35.3	118	194	-
Vert.	5925.000	PK	48.58	32.46	-24.99	-	0.00	2.10	58.15	-37.08	-7.0	30.0	149	359	-
Vert.	24100.000	PK	41.42	40.49	16.04	46.90	0.00	-9.54	41.51	-53.72	-7.0	46.7	168	250	-
Vert.	30125.000	PK	49.00	43.66	18.35	61.82	0.00	-9.54	39.65	-55.58	-7.0	48.5	150	0	Floor Noise
Vert.	36150.000	PK	50.02	43.45	20.40	61.91	0.00	-9.54	42.42	-52.81	-7.0	45.8	108	300	-
Vert.	5925.000	AV	36.68	32.46	-24.99	-	0.00	2.10	46.25	-48.98	-27.0	21.9	149	359	-
Vert.	24100.000	AV	30.73	40.49	16.04	46.90	0.00	-9.54	30.82	-64.41	-27.0	37.4	168	250	-
Vert.	30125.000	AV	37.43	43.66	18.35	61.82	0.00	-9.54	28.08	-67.15	-27.0	40.1	150	0	Floor Noise
Vert.	36150.000	AV	38.77	43.45	20.40	61.91	0.00	-9.54	31.17	-64.06	-27.0	37.0	108	300	-

1 GHz - 18 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

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

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

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

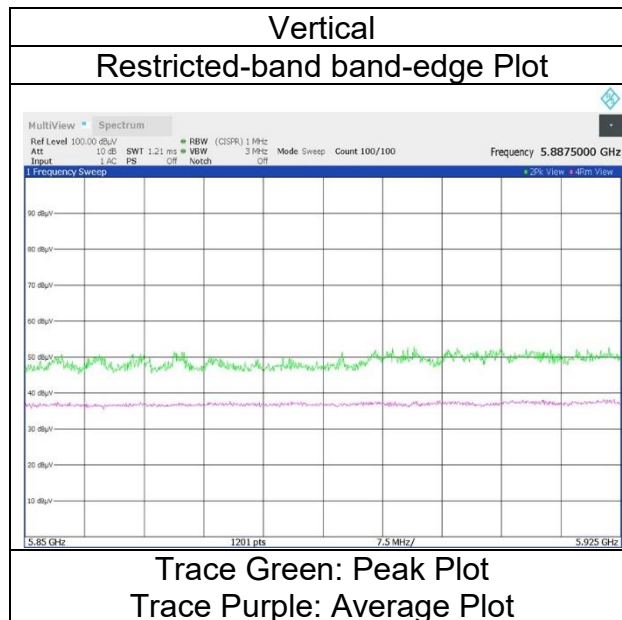
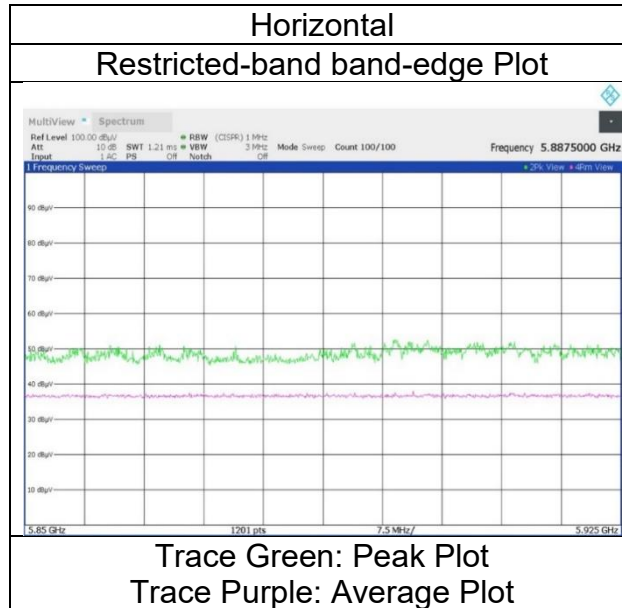
Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6025 MHz (CDD)
Antenna type	5G CH0: 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 WAC1 WAC1 WAC1
Date June 6, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Kouki Yamada Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6345 MHz (CDD)
Antenna type 5G CH0: 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.	12690.000	PK	46.55	38.45	-25.00	-	-9.54	50.46	73.9	23.4	150	0	Floor Noise
Hori.	19035.000	PK	41.15	40.28	14.16	47.92	-9.54	38.13	73.9	35.7	150	0	Floor Noise
Hori.	31725.000	PK	43.46	43.72	18.60	61.71	-9.54	34.53	73.9	39.3	150	0	Floor Noise
Hori.	12690.000	AV	34.32	38.45	-25.00	-	-9.54	38.23	53.9	15.6	150	0	Floor Noise
Hori.	19035.000	AV	29.85	40.28	14.16	47.92	-9.54	26.83	53.9	27.0	150	0	Floor Noise
Hori.	31725.000	AV	32.09	43.72	18.60	61.71	-9.54	23.16	53.9	30.7	150	0	Floor Noise
Vert.	12690.000	PK	46.06	38.45	-25.00	-	-9.54	49.97	73.9	23.9	150	0	Floor Noise
Vert.	19035.000	PK	40.61	40.28	14.16	47.92	-9.54	37.59	73.9	36.3	150	0	Floor Noise
Vert.	31725.000	PK	43.87	43.72	18.60	61.71	-9.54	34.94	73.9	38.9	150	0	Floor Noise
Vert.	12690.000	AV	33.96	38.45	-25.00	-	-9.54	37.87	53.9	16.0	150	0	Floor Noise
Vert.	19035.000	AV	29.96	40.28	14.16	47.92	-9.54	26.94	53.9	26.9	150	0	Floor Noise
Vert.	31725.000	AV	31.93	43.72	18.60	61.71	-9.54	23.00	53.9	30.9	150	0	Floor Noise

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	25380.000	PK	42.58	40.80	16.69	47.32	0.00	-9.54	43.21	-52.02	-7.0	45.0	176	223	-
Hori.	38070.000	PK	45.25	44.17	20.95	64.32	0.00	-9.54	36.51	-58.72	-7.0	51.7	201	193	-
Hori.	25380.000	AV	32.20	40.80	16.69	47.32	0.00	-9.54	32.83	-62.40	-27.0	35.4	176	223	-
Hori.	38070.000	AV	35.06	44.17	20.95	64.32	0.00	-9.54	26.32	-68.91	-27.0	41.9	201	193	-
Vert.	25380.000	PK	42.60	40.80	16.69	47.32	0.00	-9.54	43.23	-52.00	-7.0	45.0	177	256	-
Vert.	38070.000	PK	44.85	44.17	20.95	64.32	0.00	-9.54	36.11	-59.12	-7.0	52.1	165	296	-
Vert.	25380.000	AV	31.67	40.80	16.69	47.32	0.00	-9.54	32.30	-62.93	-27.0	35.9	177	256	-
Vert.	38070.000	AV	33.69	44.17	20.95	64.32	0.00	-9.54	24.95	-70.28	-27.0	43.2	165	296	-

1 GHz - 18 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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 WAC1
Date June 6, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Kouki Yamada Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)
Antenna type 5G CH0: 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.	19515.000	PK	41.10	40.42	14.41	47.68	-9.54	38.71	73.9	35.1	150	0	Floor Noise
Hori.	39030.000	PK	52.05	44.07	21.41	63.95	-9.54	44.04	73.9	29.8	182	192	-
Hori.	19515.000	AV	29.71	40.42	14.41	47.68	-9.54	27.32	53.9	26.5	150	0	Floor Noise
Hori.	39030.000	AV	41.98	44.07	21.41	63.95	-9.54	33.97	53.9	19.9	182	192	-
Vert.	19515.000	PK	41.17	40.42	14.41	47.68	-9.54	38.78	73.9	35.1	150	0	Floor Noise
Vert.	39030.000	PK	50.22	44.07	21.41	63.95	-9.54	42.21	73.9	31.6	169	244	-
Vert.	19515.000	AV	29.61	40.42	14.41	47.68	-9.54	27.22	53.9	26.6	150	0	Floor Noise
Vert.	39030.000	AV	38.85	44.07	21.41	63.95	-9.54	30.84	53.9	23.0	169	244	-

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13010.000	PK	47.17	38.82	-24.87	-	0.00	-9.54	51.58	-43.65	-7.0	36.6	150	0	Floor Noise
Hori.	26020.000	PK	45.05	41.04	16.69	47.09	0.00	-9.54	46.15	-49.08	-7.0	42.0	199	204	-
Hori.	32525.000	PK	41.65	43.73	19.13	61.41	0.00	-9.54	33.56	-61.67	-7.0	54.6	150	0	Floor Noise
Hori.	13010.000	AV	34.94	38.82	-24.87	-	0.00	-9.54	39.35	-55.88	-27.0	28.8	150	0	Floor Noise
Hori.	26020.000	AV	36.21	41.04	16.69	47.09	0.00	-9.54	37.31	-57.92	-27.0	30.9	199	204	-
Hori.	32525.000	AV	29.92	43.73	19.13	61.41	0.00	-9.54	21.83	-73.40	-27.0	46.4	150	0	Floor Noise
Vert.	13010.000	PK	46.76	38.82	-24.87	-	0.00	-9.54	51.17	-44.06	-7.0	37.0	150	0	Floor Noise
Vert.	26020.000	PK	44.54	41.04	16.69	47.09	0.00	-9.54	45.64	-49.59	-7.0	42.5	163	277	-
Vert.	32525.000	PK	41.76	43.73	19.13	61.41	0.00	-9.54	33.67	-61.56	-7.0	54.5	150	0	Floor Noise
Vert.	13010.000	AV	35.16	38.82	-24.87	-	0.00	-9.54	39.57	-55.66	-27.0	28.6	150	0	Floor Noise
Vert.	26020.000	AV	33.07	41.04	16.69	47.09	0.00	-9.54	34.17	-61.06	-27.0	34.0	163	277	-
Vert.	32525.000	AV	29.83	43.73	19.13	61.41	0.00	-9.54	21.74	-73.49	-27.0	46.4	150	0	Floor Noise

1 GHz - 18 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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 WAC1
Date June 6, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Kouki Yamada Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)
Antenna type 5G CH0: 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.	19515.000	PK	41.84	40.42	14.41	47.68	-9.54	39.45	73.9	34.4	150	0	Floor Noise
Hori.	39030.000	PK	50.78	44.07	21.41	63.95	-9.54	42.77	73.9	31.1	188	191	-
Hori.	19515.000	AV	29.64	40.42	14.41	47.68	-9.54	27.25	53.9	26.6	150	0	Floor Noise
Hori.	39030.000	AV	40.79	44.07	21.41	63.95	-9.54	32.78	53.9	21.1	188	191	-
Vert.	19515.000	PK	41.69	40.42	14.41	47.68	-9.54	39.30	73.9	34.6	150	0	Floor Noise
Vert.	39030.000	PK	50.23	44.07	21.41	63.95	-9.54	42.22	73.9	31.6	171	244	-
Vert.	19515.000	AV	29.25	40.42	14.41	47.68	-9.54	26.86	53.9	27.0	150	0	Floor Noise
Vert.	39030.000	AV	38.50	44.07	21.41	63.95	-9.54	30.49	53.9	23.4	171	244	-

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 (3.820 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	26020.000	PK	44.32	41.04	16.69	47.09	0.00	-9.54	45.42	-49.81	-7.0	42.8	212	202	-
Hori.	32525.000	PK	41.21	43.73	19.13	61.41	0.00	-9.54	33.12	-62.11	-7.0	55.1	150	0	Floor Noise
Hori.	26020.000	AV	34.99	41.04	16.69	47.09	0.00	-9.54	36.09	-59.14	-27.0	32.1	212	202	-
Hori.	32525.000	AV	29.78	43.73	19.13	61.41	0.00	-9.54	21.69	-73.54	-27.0	46.5	150	0	Floor Noise
Vert.	26020.000	PK	43.56	41.04	16.69	47.09	0.00	-9.54	44.66	-50.57	-7.0	43.5	165	280	-
Vert.	32525.000	PK	41.91	43.73	19.13	61.41	0.00	-9.54	33.82	-61.41	-7.0	54.4	150	0	Floor Noise
Vert.	26020.000	AV	33.14	41.04	16.69	47.09	0.00	-9.54	34.24	-60.99	-27.0	33.9	165	280	-
Vert.	32525.000	AV	29.95	43.73	19.13	61.41	0.00	-9.54	21.86	-73.37	-27.0	46.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Duty factor + 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 (3.820 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 WAC1 WAC1
Date June 10, 2024 June 6, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 24 deg. C / 66 % RH 26 deg. C / 58 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Yohsuke Matsuzawa Kouki Yamada Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(Below 1 GHz) (1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

Segment 0 / Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	552.787	QP	36.70	17.74	8.16	32.01	0.00	30.59	46.0	15.4	185	227	-
Hori.	555.514	QP	36.10	17.78	8.16	32.01	0.00	30.03	46.0	15.9	143	218	-
Hori.	564.587	QP	36.20	18.11	8.18	31.99	0.00	30.50	46.0	15.5	162	220	-
Hori.	796.959	QP	27.90	20.65	8.71	31.07	0.00	26.19	46.0	19.8	100	233	-
Hori.	19995.000	PK	40.94	40.32	14.45	47.58	-9.54	38.59	73.9	35.3	150	0	Floor Noise
Hori.	19995.000	AV	29.28	40.32	14.45	47.58	-9.54	26.93	53.9	26.9	150	0	Floor Noise
Vert.	252.000	QP	37.00	11.78	7.36	32.82	0.00	23.32	46.0	22.6	100	24	-
Vert.	552.787	QP	35.20	17.74	8.16	32.01	0.00	29.09	46.0	16.9	102	197	-
Vert.	555.514	QP	34.40	17.78	8.16	32.01	0.00	28.33	46.0	17.6	100	197	-
Vert.	564.587	QP	33.00	18.11	8.18	31.99	0.00	27.30	46.0	18.7	100	190	-
Vert.	796.959	QP	24.90	20.65	8.71	31.07	0.00	23.19	46.0	22.8	100	197	-
Vert.	19995.000	PK	40.91	40.32	14.45	47.58	-9.54	38.56	73.9	35.3	150	0	Floor Noise
Vert.	19995.000	AV	29.31	40.32	14.45	47.58	-9.54	26.96	53.9	26.9	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	26660.000	PK	54.30	43.20	17.03	60.18	0.00	-9.54	44.81	-50.42	-7.0	43.4	198	229	-
Hori.	26660.000	AV	47.14	43.20	17.03	60.18	0.00	-9.54	37.65	-57.58	-27.0	30.5	198	229	-
Vert.	26660.000	PK	55.34	43.20	17.03	60.18	0.00	-9.54	45.85	-49.38	-7.0	42.3	176	263	-
Vert.	26660.000	AV	47.27	43.20	17.03	60.18	0.00	-9.54	37.78	-57.45	-27.0	30.4	176	263	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 WAC1
Date June 6, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 26 deg. C / 58 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Kouki Yamada Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6825 MHz (CDD)
Antenna type 5G CH0: 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.	20475.000	PK	40.87	40.22	14.81	47.27	-9.54	39.09	73.9	34.8	150	0	Floor Noise
Hori.	20475.000	AV	29.31	40.22	14.81	47.27	-9.54	27.53	53.9	26.3	150	0	Floor Noise
Vert.	20475.000	PK	41.18	40.22	14.81	47.27	-9.54	39.40	73.9	34.5	150	0	Floor Noise
Vert.	20475.000	AV	29.43	40.22	14.81	47.27	-9.54	27.65	53.9	26.2	150	0	Floor Noise

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13650.000	PK	46.26	39.10	-24.67	-	0.00	-9.54	51.15	-44.08	-7.0	37.0	150	0	Floor Noise
Hori.	27300.000	PK	54.27	43.42	17.31	60.62	0.00	-9.54	44.84	-50.39	-7.0	43.3	194	213	-
Hori.	13650.000	AV	34.77	39.10	-24.67	-	0.00	-9.54	39.66	-55.57	-27.0	28.5	150	0	Floor Noise
Hori.	27300.000	AV	47.20	43.42	17.31	60.62	0.00	-9.54	37.77	-57.46	-27.0	30.4	194	213	-
Vert.	13650.000	PK	46.44	39.10	-24.67	-	0.00	-9.54	51.33	-43.90	-7.0	36.9	150	0	Floor Noise
Vert.	27300.000	PK	54.11	43.42	17.31	60.62	0.00	-9.54	44.68	-50.55	-7.0	43.5	177	260	-
Vert.	13650.000	AV	34.79	39.10	-24.67	-	0.00	-9.54	39.68	-55.55	-27.0	28.5	150	0	Floor Noise
Vert.	27300.000	AV	46.10	43.42	17.31	60.62	0.00	-9.54	36.67	-58.56	-27.0	31.5	177	260	-

1 GHz - 18 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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 WAC1
Date May 22, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Yohsuke Matsuzawa Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: 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.	20955.000	PK	40.80	40.21	14.99	47.17	-9.54	39.29	73.9	34.6	150	0	Floor Noise
Hori.	20955.000	AV	28.97	40.21	14.99	47.17	-9.54	27.46	53.9	26.4	150	0	Floor Noise
Vert.	20955.000	PK	40.17	40.21	14.99	47.17	-9.54	38.66	73.9	35.2	150	0	Floor Noise
Vert.	20955.000	AV	29.06	40.21	14.99	47.17	-9.54	27.55	53.9	26.3	150	0	Floor Noise

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13970.000	PK	45.78	39.06	-24.76	-	0.00	-9.54	50.54	-44.69	-7.0	37.6	150	0	Floor Noise
Hori.	27940.000	PK	54.03	43.64	17.58	61.06	0.00	-9.54	44.65	-50.58	-7.0	43.5	160	196	-
Hori.	13970.000	AV	34.44	39.06	-24.76	-	0.00	-9.54	39.20	-56.03	-27.0	29.0	150	0	Floor Noise
Hori.	27940.000	AV	46.98	43.64	17.58	61.06	0.00	-9.54	37.60	-57.63	-27.0	30.6	160	196	-
Vert.	13970.000	PK	45.51	39.06	-24.76	-	0.00	-9.54	50.27	-44.96	-7.0	37.9	150	0	Floor Noise
Vert.	27940.000	PK	54.00	43.64	17.58	61.06	0.00	-9.54	44.62	-50.61	-7.0	43.6	174	261	-
Vert.	13970.000	AV	35.13	39.06	-24.76	-	0.00	-9.54	39.89	-55.34	-27.0	28.3	150	0	Floor Noise
Vert.	27940.000	AV	45.33	43.64	17.58	61.06	0.00	-9.54	35.95	-59.28	-27.0	32.2	174	261	-

1 GHz - 18 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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 WAC1
Date May 22, 2024 May 29, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C / 56 % RH 22 deg. C / 63%RH 24 deg. C / 63%RH 24 deg. C / 65%RH
Engineer Yohsuke Matsuzawa Yosuke Murakami Yusuke Tanikawara Yusuke Tanikawara
(1 GHz -10 GHz) (10 GHz -18 GHz) (18GHz-26.5 GHz) (26.5GHz-40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: 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.	20955.000	PK	40.37	40.21	14.99	47.17	-9.54	38.86	73.9	35.0	150	0	Floor Noise
Hori.	20955.000	AV	28.90	40.21	14.99	47.17	-9.54	27.39	53.9	26.5	150	0	Floor Noise
Vert.	20955.000	PK	40.72	40.21	14.99	47.17	-9.54	39.21	73.9	34.6	150	0	Floor Noise
Vert.	20955.000	AV	29.06	40.21	14.99	47.17	-9.54	27.55	53.9	26.3	150	0	Floor Noise

1 GHz - 18 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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.18	36.14	-24.19	-	0.00	2.10	60.23	-35.00	-7.0	28.0	150	325	-
Hori.	13970.000	PK	46.86	39.06	-24.76	-	0.00	-9.54	51.62	-43.61	-7.0	36.6	150	0	Floor Noise
Hori.	27940.000	PK	53.82	43.64	17.58	61.06	0.00	-9.54	44.44	-50.79	-7.0	43.7	161	196	-
Hori.	7125.000	AV	35.79	36.14	-24.19	-	0.00	2.10	49.84	-45.39	-27.0	18.3	150	325	-
Hori.	13970.000	AV	34.19	39.06	-24.76	-	0.00	-9.54	38.95	-56.28	-27.0	29.2	150	0	Floor Noise
Hori.	27940.000	AV	46.95	43.64	17.58	61.06	0.00	-9.54	37.57	-57.66	-27.0	30.6	161	196	-
Vert.	7125.000	PK	46.10	36.14	-24.19	-	0.00	2.10	60.15	-35.08	-7.0	28.0	150	195	-
Vert.	13970.000	PK	46.46	39.06	-24.76	-	0.00	-9.54	51.22	-44.01	-7.0	37.0	150	0	Floor Noise
Vert.	27940.000	PK	53.06	43.64	17.58	61.06	0.00	-9.54	43.68	-51.55	-7.0	44.5	176	257	-
Vert.	7125.000	AV	35.67	36.14	-24.19	-	0.00	2.10	49.72	-45.51	-27.0	18.5	150	195	-
Vert.	13970.000	AV	34.30	39.06	-24.76	-	0.00	-9.54	39.06	-56.17	-27.0	29.1	150	0	Floor Noise
Vert.	27940.000	AV	45.54	43.64	17.58	61.06	0.00	-9.54	36.16	-59.07	-27.0	32.0	176	257	-

1 GHz - 18 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

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

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

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

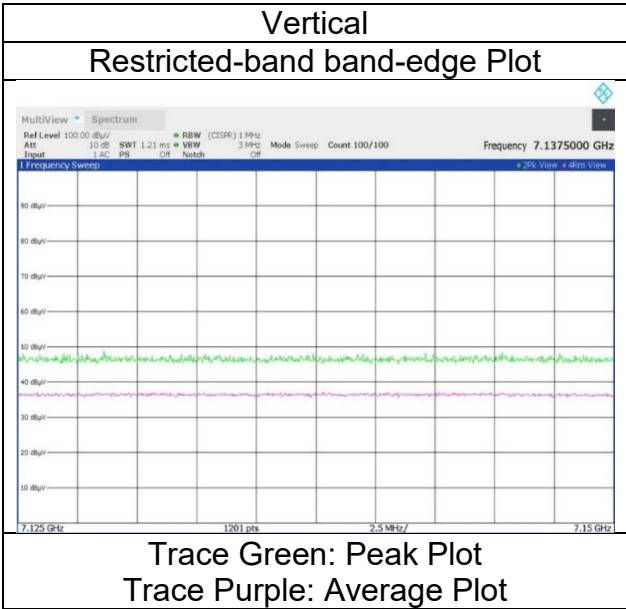
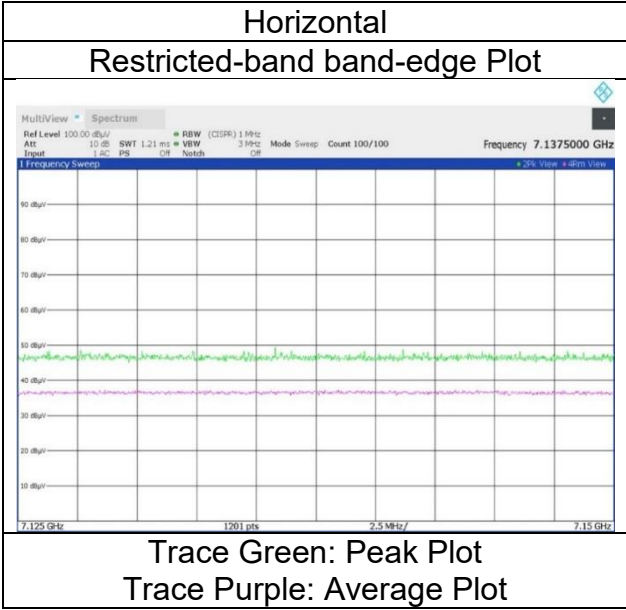
Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 22, 2024
Temperature / Humidity	23 deg. C / 56 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)
Antenna type	5G CH0: 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	52.32	32.46	-24.99	-	0.00	2.10	61.89	-33.34	-7.0	26.3	166	350	-
Hori.	5925.000	AV	40.19	32.46	-24.99	-	0.00	2.10	49.76	-45.47	-27.0	18.4	166	350	-
Vert.	5925.000	PK	52.40	32.46	-24.99	-	0.00	2.10	61.97	-33.26	-7.0	26.2	150	356	-
Vert.	5925.000	AV	39.79	32.46	-24.99	-	0.00	2.10	49.36	-45.87	-27.0	18.8	150	356	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

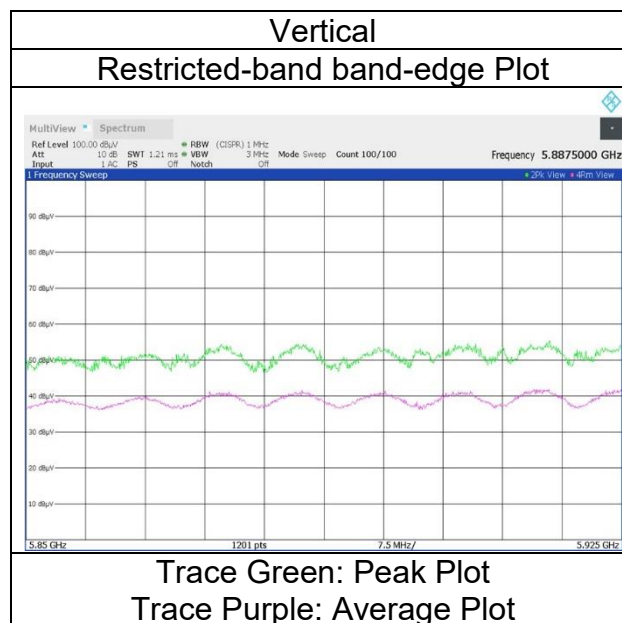
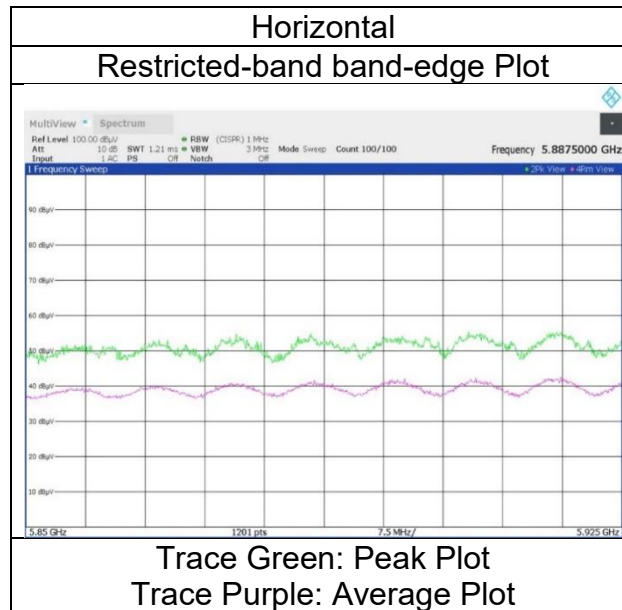
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6025 MHz (CDD)
5G CH0: 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 May 22, 2024
Temperature / Humidity 23 deg. C / 56 % RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	49.96	35.91	-24.12	-	0.00	2.10	63.85	-31.38	-7.0	24.3	235	165	-
Hori.	7125.000	AV	37.28	35.91	-24.12	-	0.00	2.10	51.17	-44.06	-27.0	17.0	235	165	-
Vert.	7125.000	PK	49.62	35.91	-24.12	-	0.00	2.10	63.51	-31.72	-7.0	24.7	173	335	-
Vert.	7125.000	AV	37.34	35.91	-24.12	-	0.00	2.10	51.23	-44.00	-27.0	17.0	173	335	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

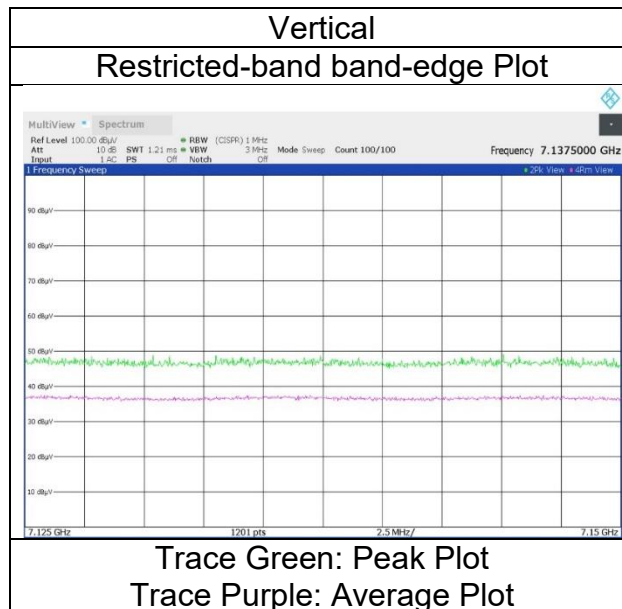
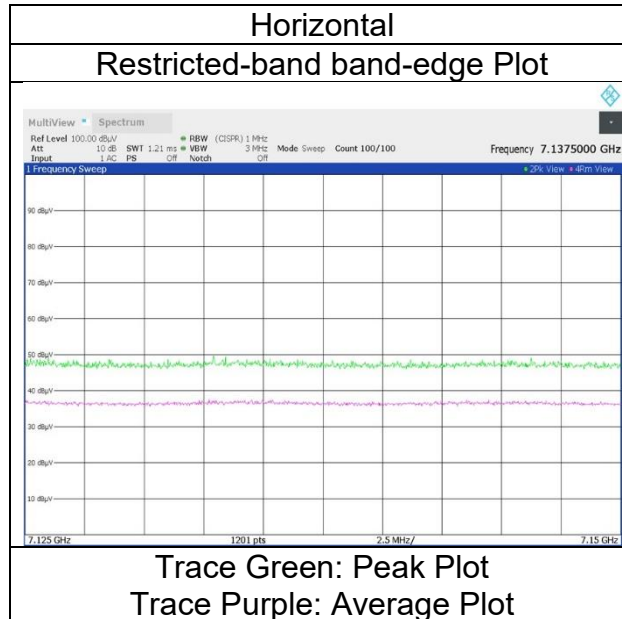
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 22, 2024
23 deg. C / 56 % RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)

Mode
Antenna type

Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6985 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

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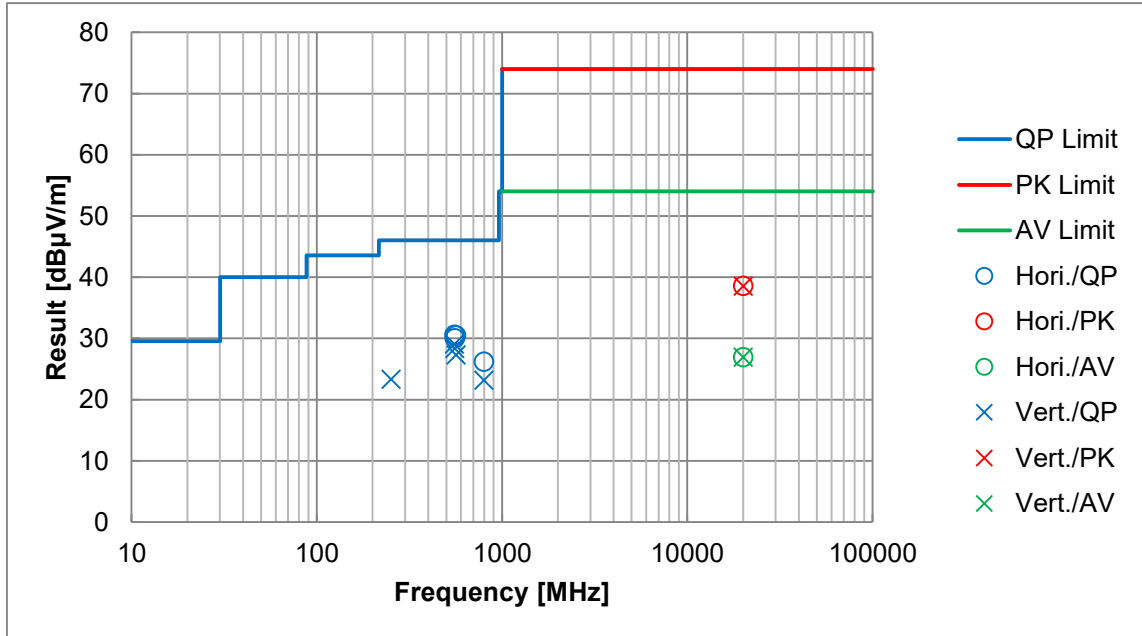


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(Plot data, Worst case mode for Maximum Conducted Output Power)

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1	WAC1
Date	June 10, 2024	May 29, 2024	June 14, 2024	June 11, 2024	June 11, 2024
Temperature / Humidity	24 deg. C / 66 % RH	22 deg. C / 63%RH	24 deg. C / 63%RH	24 deg. C / 65%RH	24 deg. C / 65%RH
Engineer	Yohsuke Matsuzawa	Yosuke Murakami	Yusuke Tanikawara	Yusuke Tanikawara	Yusuke Tanikawara
Mode	(Below 1 GHz)	(10 GHz -18 GHz)	(18GHz-26.5 GHz)	(26.5GHz-40 GHz)	(26.5GHz-40 GHz)
Antenna type	Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)				
	5G CH0: monopole , 5G CH 1: monopole				



*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 23, 2024
Temperature / Humidity 22 deg. C, 44 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11a, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.72	32.46	-24.99	-	0.00	2.10	57.29	-37.94	-7.0	30.9	184	342	-
Hori.	5925.000	AV	36.28	32.46	-24.99	-	0.00	2.10	45.85	-49.38	-27.0	22.3	184	342	-
Vert.	5925.000	PK	47.55	32.46	-24.99	-	0.00	2.10	57.12	-38.11	-7.0	31.1	152	337	-
Vert.	5925.000	AV	35.56	32.46	-24.99	-	0.00	2.10	45.13	-50.10	-27.0	23.1	152	337	-

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

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

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

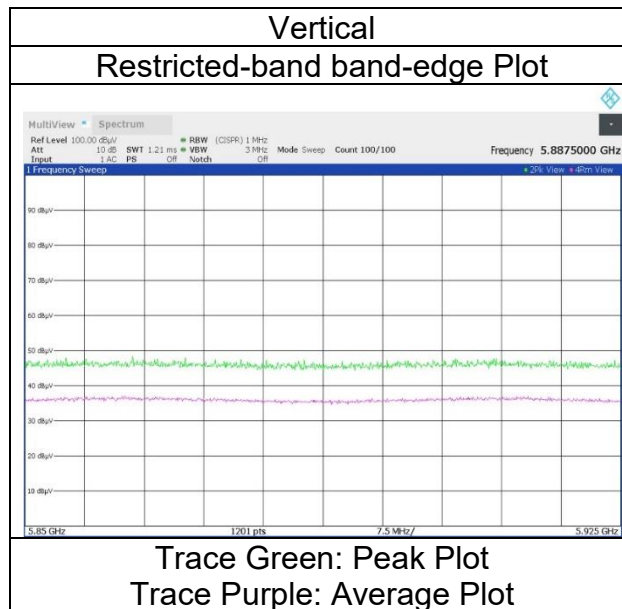
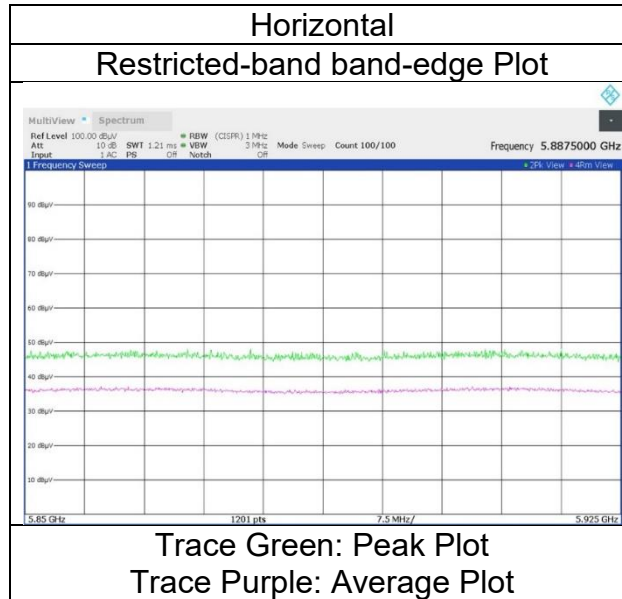
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 23, 2024
Temperature / Humidity	22 deg. C, 44 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11a, 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 23, 2024
Temperature / Humidity 22 deg. C, 44 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11a, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.35	36.14	-24.19	-	0.00	2.10	62.40	-32.83	-7.0	25.8	170	359	-
Hori.	7125.000	AV	35.94	36.14	-24.19	-	0.00	2.10	49.99	-45.24	-27.0	18.2	170	359	-
Vert.	7125.000	PK	47.84	36.14	-24.19	-	0.00	2.10	61.89	-33.34	-7.0	26.3	125	73	-
Vert.	7125.000	AV	35.64	36.14	-24.19	-	0.00	2.10	49.69	-45.54	-27.0	18.5	125	73	-

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

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

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

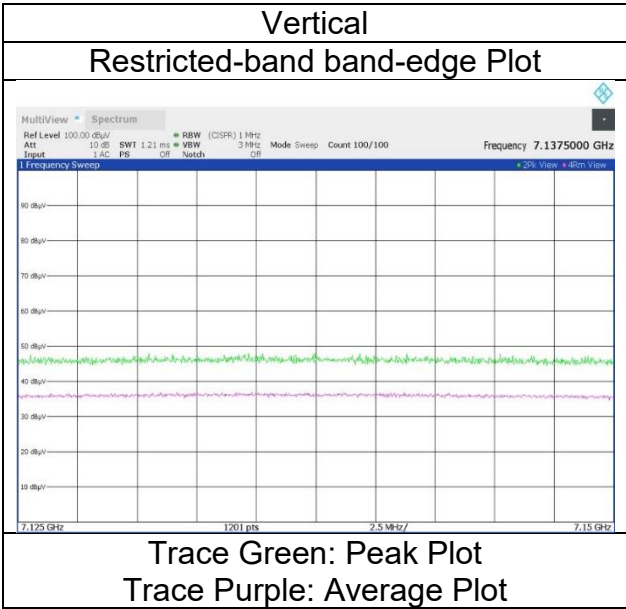
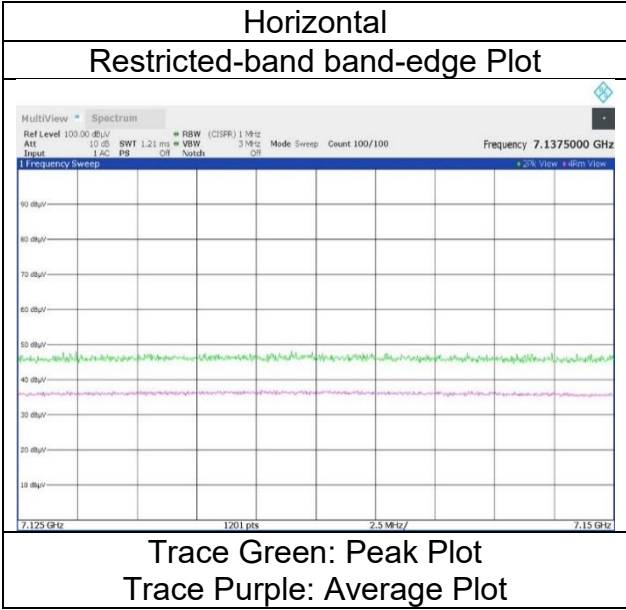
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 23, 2024
Temperature / Humidity	22 deg. C, 44 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11a, 7095 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 23, 2024 May 30, 2024
Temperature / Humidity 22 deg. C, 44 %RH 22 deg. C, 63 %RH
Engineer Yuta Shiba Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	11910.000	PK	45.50	38.54	-25.71	-	-9.54	48.79	73.9	25.1	150	0	Floor Noise
Hori.	17865.000	PK	45.68	40.39	-21.51	-	-9.54	55.02	73.9	18.8	150	0	Floor Noise
Hori.	11910.000	AV	34.32	38.54	-25.71	-	-9.54	37.61	53.9	16.2	150	0	Floor Noise
Hori.	17865.000	AV	34.16	40.39	-21.51	-	-9.54	43.50	53.9	10.4	150	0	Floor Noise
Vert.	11910.000	PK	46.13	38.54	-25.71	-	-9.54	49.42	73.9	24.4	150	0	Floor Noise
Vert.	17865.000	PK	45.77	40.39	-21.51	-	-9.54	55.11	73.9	18.7	150	0	Floor Noise
Vert.	11910.000	AV	34.33	38.54	-25.71	-	-9.54	37.62	53.9	16.2	150	0	Floor Noise
Vert.	17865.000	AV	33.95	40.39	-21.51	-	-9.54	43.29	53.9	10.6	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.52	32.46	-24.99	-	0.00	2.10	57.09	-38.14	-7.0	31.1	150	343	-
Hori.	5925.000	AV	35.70	32.46	-24.99	-	0.00	2.10	45.27	-49.96	-27.0	22.9	150	343	-
Vert.	5925.000	PK	47.05	32.46	-24.99	-	0.00	2.10	56.62	-38.61	-7.0	31.6	169	338	-
Vert.	5925.000	AV	35.69	32.46	-24.99	-	0.00	2.10	45.26	-49.97	-27.0	22.9	169	338	-

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

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

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

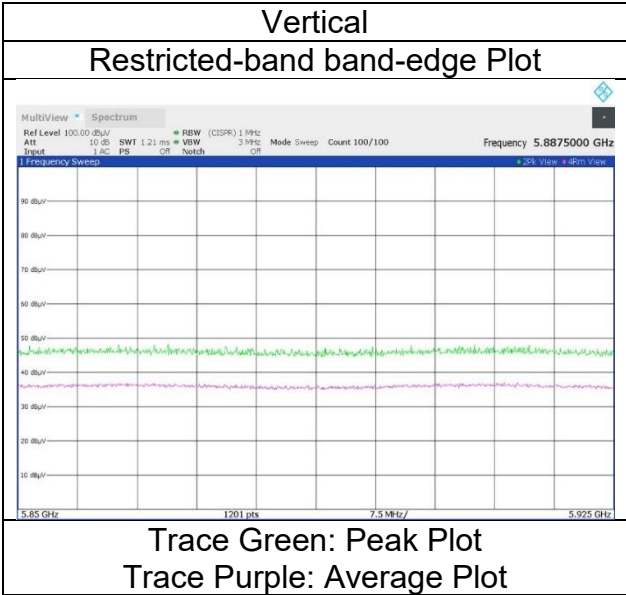
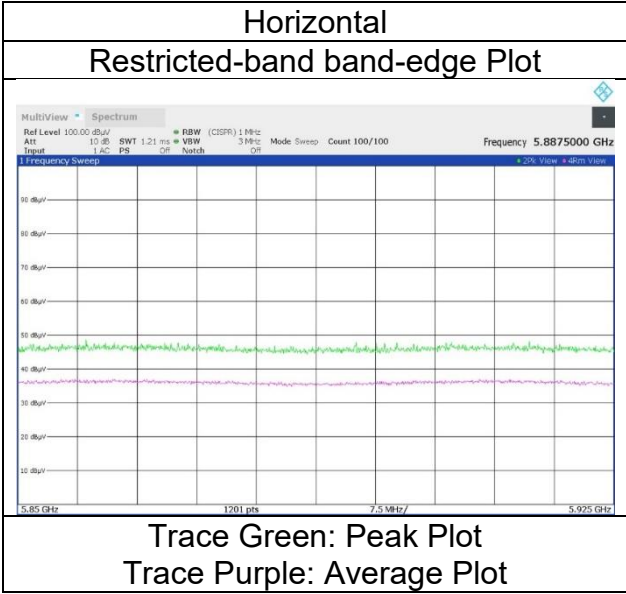
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 23, 2024
Temperature / Humidity	22 deg. C, 44 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDM), 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6195 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	12390.000	PK	45.66	38.36	-25.22	-	-9.54	49.26	73.9	24.6	150	0	Floor Noise
Hori.	12390.000	AV	34.57	38.36	-25.22	-	-9.54	38.17	53.9	15.7	150	0	Floor Noise
Vert.	12390.000	PK	46.14	38.36	-25.22	-	-9.54	49.74	73.9	24.1	150	0	Floor Noise
Vert.	12390.000	AV	34.35	38.36	-25.22	-	-9.54	37.95	53.9	15.9	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6415 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12830.000	PK	45.80	38.63	-24.94	-	0.00	-9.54	49.95	-45.28	-7.0	38.2	150	0	Floor Noise
Hori.	12830.000	AV	34.11	38.63	-24.94	-	0.00	-9.54	38.26	-56.97	-27.0	29.9	150	0	Floor Noise
Vert.	12830.000	PK	46.62	38.63	-24.94	-	0.00	-9.54	50.77	-44.46	-7.0	37.4	150	0	Floor Noise
Vert.	12830.000	AV	34.47	38.63	-24.94	-	0.00	-9.54	38.62	-56.61	-27.0	29.6	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12870.000	PK	45.67	38.68	-24.92	-	0.00	-9.54	49.89	-45.34	-7.0	38.3	150	0	Floor Noise
Hori.	12870.000	AV	33.96	38.68	-24.92	-	0.00	-9.54	38.18	-57.05	-27.0	30.0	150	0	Floor Noise
Vert.	12870.000	PK	45.39	38.68	-24.92	-	0.00	-9.54	49.61	-45.62	-7.0	38.6	150	0	Floor Noise
Vert.	12870.000	AV	33.98	38.68	-24.92	-	0.00	-9.54	38.20	-57.03	-27.0	30.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6475 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12950.000	PK	45.70	38.78	-24.88	-	0.00	-9.54	50.06	-45.17	-7.0	38.1	150	0	Floor Noise
Hori.	12950.000	AV	34.53	38.78	-24.88	-	0.00	-9.54	38.89	-56.34	-27.0	29.3	150	0	Floor Noise
Vert.	12950.000	PK	45.90	38.78	-24.88	-	0.00	-9.54	50.26	-44.97	-7.0	37.9	150	0	Floor Noise
Vert.	12950.000	AV	34.73	38.78	-24.88	-	0.00	-9.54	39.09	-56.14	-27.0	29.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6515 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13030.000	PK	45.83	38.84	-24.86	-	0.00	-9.54	50.27	-44.96	-7.0	37.9	150	0	Floor Noise
Hori.	13030.000	AV	34.52	38.84	-24.86	-	0.00	-9.54	38.96	-56.27	-27.0	29.2	150	0	Floor Noise
Vert.	13030.000	PK	45.64	38.84	-24.86	-	0.00	-9.54	50.08	-45.15	-7.0	38.1	150	0	Floor Noise
Vert.	13030.000	AV	34.04	38.84	-24.86	-	0.00	-9.54	38.48	-56.75	-27.0	29.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13070.000	PK	45.85	38.86	-24.83	-	0.00	-9.54	50.34	-44.89	-7.0	37.8	150	0	Floor Noise
Hori.	13070.000	AV	34.18	38.86	-24.83	-	0.00	-9.54	38.67	-56.56	-27.0	29.5	150	0	Floor Noise
Vert.	13070.000	PK	45.78	38.86	-24.83	-	0.00	-9.54	50.27	-44.96	-7.0	37.9	150	0	Floor Noise
Vert.	13070.000	AV	34.44	38.86	-24.83	-	0.00	-9.54	38.93	-56.30	-27.0	29.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6695 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	13390.000	PK	46.48	39.09	-24.67	-	-9.54	51.36	73.9	22.5	150	0	Floor Noise
Hori.	13390.000	AV	34.42	39.09	-24.67	-	-9.54	39.30	53.9	14.6	150	0	Floor Noise
Vert.	13390.000	PK	46.97	39.09	-24.67	-	-9.54	51.85	73.9	22.0	150	0	Floor Noise
Vert.	13390.000	AV	34.32	39.09	-24.67	-	-9.54	39.20	53.9	14.7	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13710.000	PK	46.23	39.07	-24.69	-	0.00	-9.54	51.07	-44.16	-7.0	37.1	150	0	Floor Noise
Hori.	13710.000	AV	34.32	39.07	-24.69	-	0.00	-9.54	39.16	-56.07	-27.0	29.0	150	0	Floor Noise
Vert.	13710.000	PK	45.65	39.07	-24.69	-	0.00	-9.54	50.49	-44.74	-7.0	37.7	150	0	Floor Noise
Vert.	13710.000	AV	34.26	39.07	-24.69	-	0.00	-9.54	39.10	-56.13	-27.0	29.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6875 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13750.000	PK	46.54	39.08	-24.69	-	0.00	-9.54	51.39	-43.84	-7.0	36.8	150	0	Floor Noise
Hori.	13750.000	AV	34.29	39.08	-24.69	-	0.00	-9.54	39.14	-56.09	-27.0	29.0	150	0	Floor Noise
Vert.	13750.000	PK	46.25	39.08	-24.69	-	0.00	-9.54	51.10	-44.13	-7.0	37.1	150	0	Floor Noise
Vert.	13750.000	AV	34.75	39.08	-24.69	-	0.00	-9.54	39.60	-55.63	-27.0	28.6	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13790.000	PK	45.90	39.08	-24.71	-	0.00	-9.54	50.73	-44.50	-7.0	37.5	150	0	Floor Noise
Hori.	13790.000	AV	34.38	39.08	-24.71	-	0.00	-9.54	39.21	-56.02	-27.0	29.0	150	0	Floor Noise
Vert.	13790.000	PK	46.48	39.08	-24.71	-	0.00	-9.54	51.31	-43.92	-7.0	36.9	150	0	Floor Noise
Vert.	13790.000	AV	34.97	39.08	-24.71	-	0.00	-9.54	39.80	-55.43	-27.0	28.4	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6995 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13990.000	PK	46.55	39.06	-24.77	-	0.00	-9.54	51.30	-43.93	-7.0	36.9	150	0	Floor Noise
Hori.	13990.000	AV	34.77	39.06	-24.77	-	0.00	-9.54	39.52	-55.71	-27.0	28.7	150	0	Floor Noise
Vert.	13990.000	PK	46.00	39.06	-24.77	-	0.00	-9.54	50.75	-44.48	-7.0	37.4	150	0	Floor Noise
Vert.	13990.000	AV	34.45	39.06	-24.77	-	0.00	-9.54	39.20	-56.03	-27.0	29.0	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 23, 2024 May 30, 2024
Temperature / Humidity 22 deg. C, 44 %RH 22 deg. C, 63 %RH
Engineer Yuta Shiba Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.52	36.14	-24.19	-	0.00	2.10	61.57	-33.66	-7.0	26.6	147	352	-
Hori.	14190.000	PK	46.28	39.08	-24.64	-	0.00	-9.54	51.18	-44.05	-7.0	37.0	150	0	Floor Noise
Hori.	7125.000	AV	35.83	36.14	-24.19	-	0.00	2.10	49.88	-45.35	-27.0	18.3	147	352	-
Hori.	14190.000	AV	33.84	39.08	-24.64	-	0.00	-9.54	38.74	-56.49	-27.0	29.4	150	0	Floor Noise
Vert.	7125.000	PK	48.83	36.14	-24.19	-	0.00	2.10	62.88	-32.35	-7.0	25.3	145	6	-
Vert.	14190.000	PK	46.72	39.08	-24.64	-	0.00	-9.54	51.62	-43.61	-7.0	36.6	150	0	Floor Noise
Vert.	7125.000	AV	35.80	36.14	-24.19	-	0.00	2.10	49.85	-45.38	-27.0	18.3	145	6	-
Vert.	14190.000	AV	34.12	39.08	-24.64	-	0.00	-9.54	39.02	-56.21	-27.0	29.2	150	0	Floor Noise

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

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

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

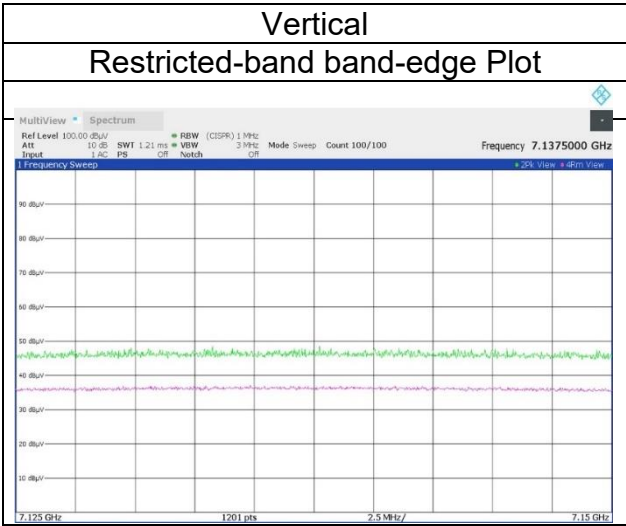
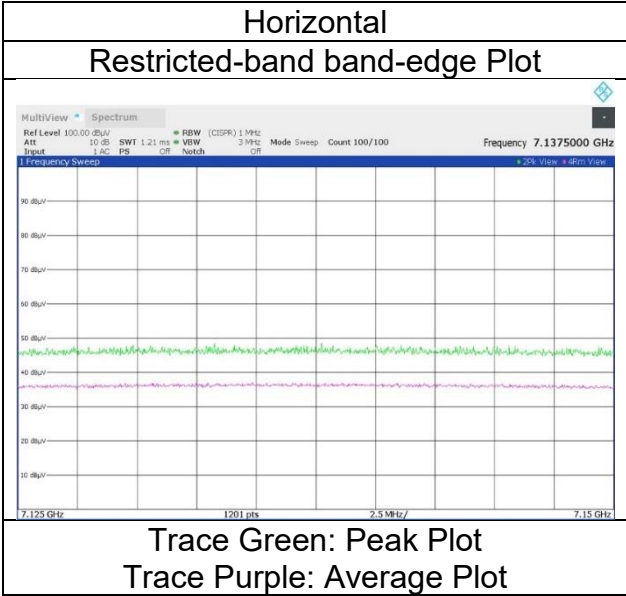
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 23, 2024
Temperature / Humidity	22 deg. C, 44 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDM), 7095 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 27, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Yuta Shiba Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	11930.000	PK	45.32	38.55	-25.70	-	-9.54	48.63	73.9	25.2	150	0	Floor Noise
Hori.	17895.000	PK	45.53	40.34	-21.49	-	-9.54	54.84	73.9	19.0	150	0	Floor Noise
Hori.	11930.000	AV	34.04	38.55	-25.70	-	-9.54	37.35	53.9	16.5	150	0	Floor Noise
Hori.	17895.000	AV	34.34	40.34	-21.49	-	-9.54	43.65	53.9	10.2	150	0	Floor Noise
Vert.	11930.000	PK	45.69	38.55	-25.70	-	-9.54	49.00	73.9	24.9	150	0	Floor Noise
Vert.	17895.000	PK	46.19	40.34	-21.49	-	-9.54	55.50	73.9	18.4	150	0	Floor Noise
Vert.	11930.000	AV	34.22	38.55	-25.70	-	-9.54	37.53	53.9	16.3	150	0	Floor Noise
Vert.	17895.000	AV	34.75	40.34	-21.49	-	-9.54	44.06	53.9	9.8	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.59	32.46	-24.99	-	0.00	2.10	57.16	-38.07	-7.0	31.0	100	0	-
Hori.	5925.000	AV	35.71	32.46	-24.99	-	0.00	2.10	45.28	-49.95	-27.0	22.9	100	0	-
Vert.	5925.000	PK	46.19	32.46	-24.99	-	0.00	2.10	55.76	-39.47	-7.0	32.4	150	339	-
Vert.	5925.000	AV	34.65	32.46	-24.99	-	0.00	2.10	44.22	-51.01	-27.0	24.0	150	339	-

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

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

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

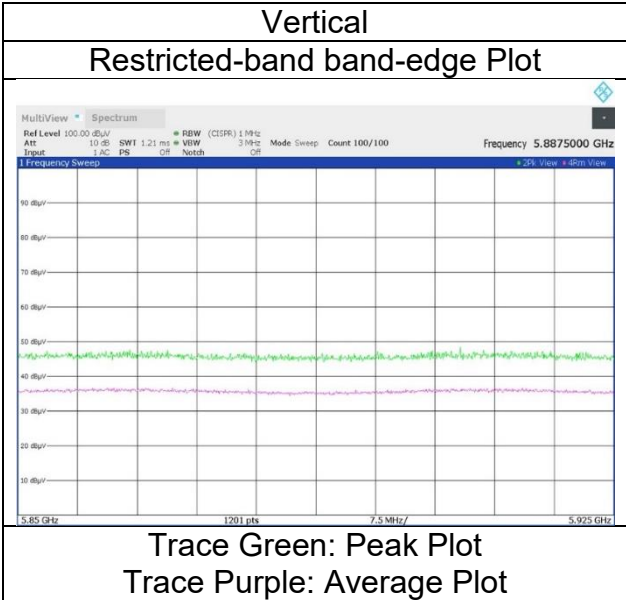
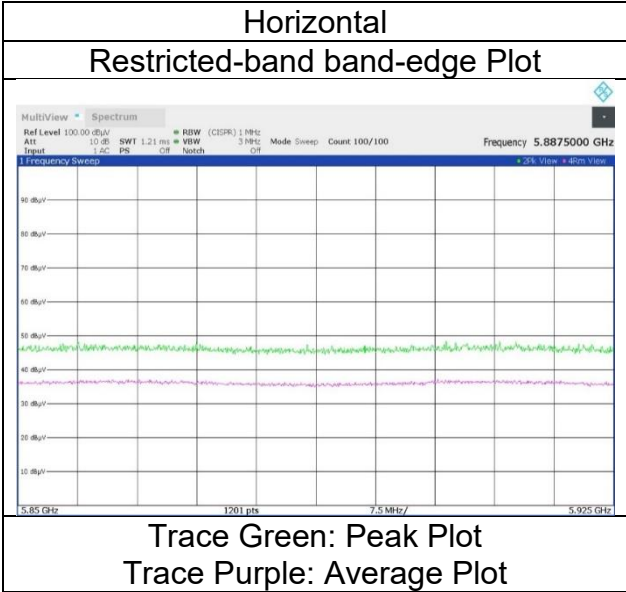
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 27, 2024
Temperature / Humidity	23 deg. C, 65 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDM), 5965 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6205 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	12410.000	PK	45.66	38.34	-25.20	-	-9.54	49.26	73.9	24.6	150	0	Floor Noise
Hori.	12410.000	AV	34.10	38.34	-25.20	-	-9.54	37.70	53.9	16.2	150	0	Floor Noise
Vert.	12410.000	PK	47.21	38.34	-25.20	-	-9.54	50.81	73.9	23.0	150	0	Floor Noise
Vert.	12410.000	AV	34.02	38.34	-25.20	-	-9.54	37.62	53.9	16.2	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6405 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12810.000	PK	45.51	38.61	-24.96	-	0.00	-9.54	49.62	-45.61	-7.0	38.6	150	0	Floor Noise
Hori.	12810.000	AV	34.02	38.61	-24.96	-	0.00	-9.54	38.13	-57.10	-27.0	30.1	150	0	Floor Noise
Vert.	12810.000	PK	45.68	38.61	-24.96	-	0.00	-9.54	49.79	-45.44	-7.0	38.4	150	0	Floor Noise
Vert.	12810.000	AV	34.00	38.61	-24.96	-	0.00	-9.54	38.11	-57.12	-27.0	30.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6445 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12890.000	PK	45.64	38.70	-24.92	-	0.00	-9.54	49.88	-45.35	-7.0	38.3	150	0	Floor Noise
Hori.	12890.000	AV	33.92	38.70	-24.92	-	0.00	-9.54	38.16	-57.07	-27.0	30.0	150	0	Floor Noise
Vert.	12890.000	PK	46.26	38.70	-24.92	-	0.00	-9.54	50.50	-44.73	-7.0	37.7	150	0	Floor Noise
Vert.	12890.000	AV	33.60	38.70	-24.92	-	0.00	-9.54	37.84	-57.39	-27.0	30.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6485 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12970.000	PK	45.44	38.79	-24.88	-	0.00	-9.54	49.81	-45.42	-7.0	38.4	150	0	Floor Noise
Hori.	12970.000	AV	34.60	38.79	-24.88	-	0.00	-9.54	38.97	-56.26	-27.0	29.2	150	0	Floor Noise
Vert.	12970.000	PK	45.84	38.79	-24.88	-	0.00	-9.54	50.21	-45.02	-7.0	38.0	150	0	Floor Noise
Vert.	12970.000	AV	35.08	38.79	-24.88	-	0.00	-9.54	39.45	-55.78	-27.0	28.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20 \log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6525 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13050.000	PK	46.50	38.85	-24.85	-	0.00	-9.54	50.96	-44.27	-7.0	37.2	150	0	Floor Noise
Hori.	13050.000	AV	34.59	38.85	-24.85	-	0.00	-9.54	39.05	-56.18	-27.0	29.1	150	0	Floor Noise
Vert.	13050.000	PK	45.71	38.85	-24.85	-	0.00	-9.54	50.17	-45.06	-7.0	38.0	150	0	Floor Noise
Vert.	13050.000	AV	34.41	38.85	-24.85	-	0.00	-9.54	38.87	-56.36	-27.0	29.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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	June 14, 2024	May 30, 2024
Temperature / Humidity	23 deg. C, 65 %RH	22 deg. C, 63 %RH
Engineer	Hiromasa Sato	Yuta Shiba
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDM), 6565 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13130.000	PK	46.49	38.89	-24.81	-	0.00	-9.54	51.03	-44.20	-7.0	37.2	150	0	Floor Noise
Hori.	13130.000	AV	35.03	38.89	-24.81	-	0.00	-9.54	39.57	-55.66	-27.0	28.6	150	0	Floor Noise
Vert.	13130.000	PK	46.38	38.89	-24.81	-	0.00	-9.54	50.92	-44.31	-7.0	37.3	150	0	Floor Noise
Vert.	13130.000	AV	33.98	38.89	-24.81	-	0.00	-9.54	38.52	-56.71	-27.0	29.7	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6685 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	13370.000	PK	46.01	39.07	-24.68	-	-9.54	50.86	73.9	23.0	150	0	Floor Noise
Hori.	13370.000	AV	34.02	39.07	-24.68	-	-9.54	38.87	53.9	15.0	150	0	Floor Noise
Vert.	13370.000	PK	45.71	39.07	-24.68	-	-9.54	50.56	73.9	23.3	150	0	Floor Noise
Vert.	13370.000	AV	34.28	39.07	-24.68	-	-9.54	39.13	53.9	14.7	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6845 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13690.000	PK	46.71	39.08	-24.68	-	0.00	-9.54	51.57	-43.66	-7.0	36.6	150	0	Floor Noise
Hori.	13690.000	AV	34.61	39.08	-24.68	-	0.00	-9.54	39.47	-55.76	-27.0	28.7	150	0	Floor Noise
Vert.	13690.000	PK	46.21	39.08	-24.68	-	0.00	-9.54	51.07	-44.16	-7.0	37.1	150	0	Floor Noise
Vert.	13690.000	AV	35.38	39.08	-24.68	-	0.00	-9.54	40.24	-54.99	-27.0	27.9	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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	June 14, 2024	May 30, 2024
Temperature / Humidity	23 deg. C, 65 %RH	22 deg. C, 63 %RH
Engineer	Hiromasa Sato	Yuta Shiba
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDM), 6885 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13770.000	PK	46.02	39.09	-24.70	-	0.00	-9.54	50.87	-44.36	-7.0	37.3	150	0	Floor Noise
Hori.	13770.000	AV	34.38	39.09	-24.70	-	0.00	-9.54	39.23	-56.00	-27.0	29.0	150	0	Floor Noise
Vert.	13770.000	PK	46.17	39.09	-24.70	-	0.00	-9.54	51.02	-44.21	-7.0	37.2	150	0	Floor Noise
Vert.	13770.000	AV	34.26	39.09	-24.70	-	0.00	-9.54	39.11	-56.12	-27.0	29.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6925 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13970.000	PK	46.31	39.06	-24.76	-	0.00	-9.54	51.07	-44.16	-7.0	37.1	150	0	Floor Noise
Hori.	13970.000	AV	34.19	39.06	-24.76	-	0.00	-9.54	38.95	-56.28	-27.0	29.2	150	0	Floor Noise
Vert.	13970.000	PK	46.99	39.06	-24.76	-	0.00	-9.54	51.75	-43.48	-7.0	36.4	150	0	Floor Noise
Vert.	13970.000	AV	34.45	39.06	-24.76	-	0.00	-9.54	39.21	-56.02	-27.0	29.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 7005 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	14010.000	PK	45.88	39.06	-24.78	-	0.00	-9.54	50.62	-44.61	-7.0	37.6	150	0	Floor Noise
Hori.	14010.000	AV	34.22	39.06	-24.78	-	0.00	-9.54	38.96	-56.27	-27.0	29.2	150	0	Floor Noise
Vert.	14010.000	PK	45.86	39.06	-24.78	-	0.00	-9.54	50.60	-44.63	-7.0	37.6	150	0	Floor Noise
Vert.	14010.000	AV	34.17	39.06	-24.78	-	0.00	-9.54	38.91	-56.32	-27.0	29.3	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20 \log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 27, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 63 %RH
Engineer Yuta Shiba Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.86	36.14	-24.19	-	0.00	2.10	61.91	-33.32	-7.0	26.3	102	4	-
Hori.	14170.000	PK	46.75	39.07	-24.67	-	0.00	-9.54	51.61	-43.62	-7.0	36.6	150	0	Floor Noise
Hori.	7125.000	AV	35.72	36.14	-24.19	-	0.00	2.10	49.77	-45.46	-27.0	18.4	102	4	-
Hori.	14170.000	AV	34.16	39.07	-24.67	-	0.00	-9.54	39.02	-56.21	-27.0	29.2	150	0	Floor Noise
Vert.	7125.000	PK	46.39	36.14	-24.19	-	0.00	2.10	60.44	-34.79	-7.0	27.7	150	77	-
Vert.	14170.000	PK	46.44	39.07	-24.67	-	0.00	-9.54	51.30	-43.93	-7.0	36.9	150	0	Floor Noise
Vert.	7125.000	AV	34.80	36.14	-24.19	-	0.00	2.10	48.85	-46.38	-27.0	19.3	150	77	-
Vert.	14170.000	AV	34.42	39.07	-24.67	-	0.00	-9.54	39.28	-55.95	-27.0	28.9	150	0	Floor Noise

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

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

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

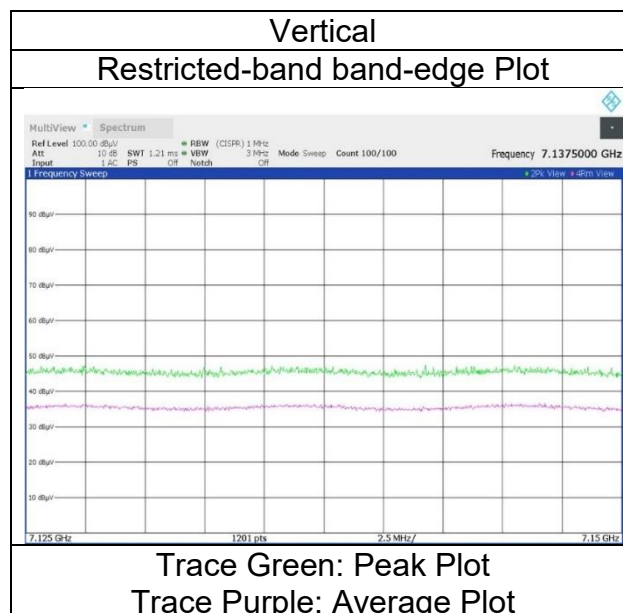
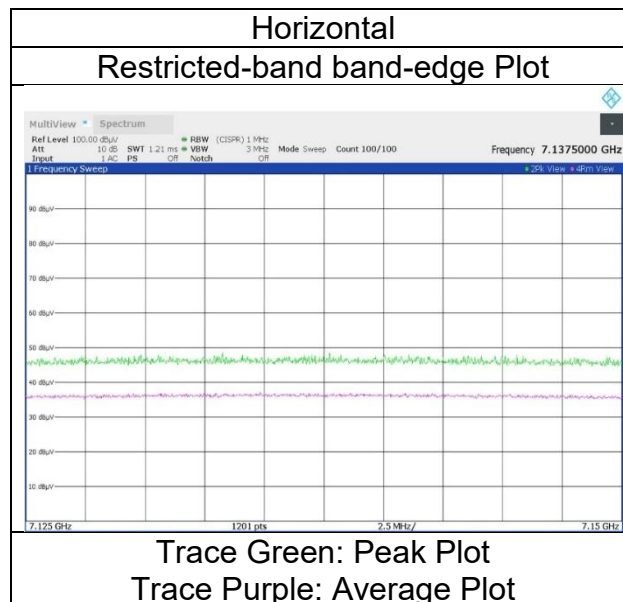
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 27, 2024
Temperature / Humidity	23 deg. C, 65 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDM), 7085 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 24, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 52 %RH
Engineer Yohsuke Matsuzawa Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	11970.000	PK	46.48	38.60	-25.69	-	-9.54	49.85	73.9	24.0	150	0	Floor Noise
Hori.	17955.000	PK	45.22	40.36	-21.50	-	-9.54	54.54	73.9	19.3	150	0	Floor Noise
Hori.	11970.000	AV	34.38	38.60	-25.69	-	-9.54	37.75	53.9	16.1	150	0	Floor Noise
Hori.	17955.000	AV	34.34	40.36	-21.50	-	-9.54	43.66	53.9	10.2	150	0	Floor Noise
Vert.	11970.000	PK	46.37	38.60	-25.69	-	-9.54	49.74	73.9	24.1	150	0	Floor Noise
Vert.	17955.000	PK	45.18	40.36	-21.50	-	-9.54	54.50	73.9	19.4	150	0	Floor Noise
Vert.	11970.000	AV	35.34	38.60	-25.69	-	-9.54	38.71	53.9	15.1	150	0	Floor Noise
Vert.	17955.000	AV	34.02	40.36	-21.50	-	-9.54	43.34	53.9	10.5	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.52	32.46	-24.99	-	0.00	2.10	58.09	-37.14	-7.0	30.1	151	343	-
Hori.	5925.000	AV	35.68	32.46	-24.99	-	0.00	2.10	45.25	-49.98	-27.0	22.9	151	343	-
Vert.	5925.000	PK	47.12	32.46	-24.99	-	0.00	2.10	56.69	-38.54	-7.0	31.5	159	338	-
Vert.	5925.000	AV	35.81	32.46	-24.99	-	0.00	2.10	45.38	-49.85	-27.0	22.8	159	338	-

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

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

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

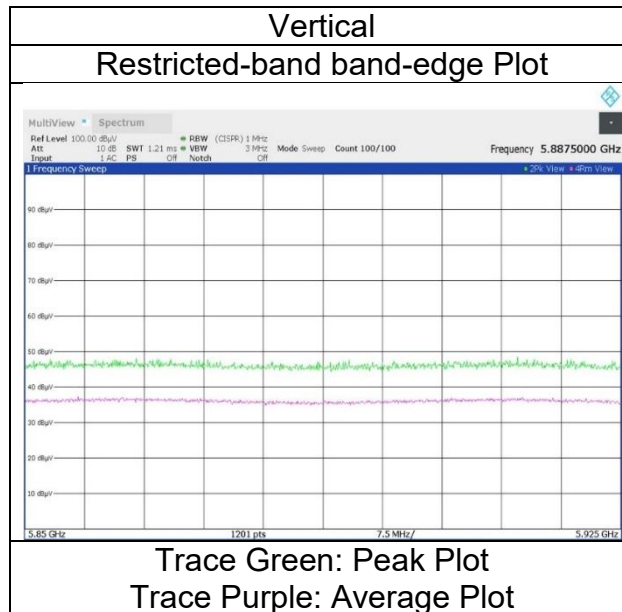
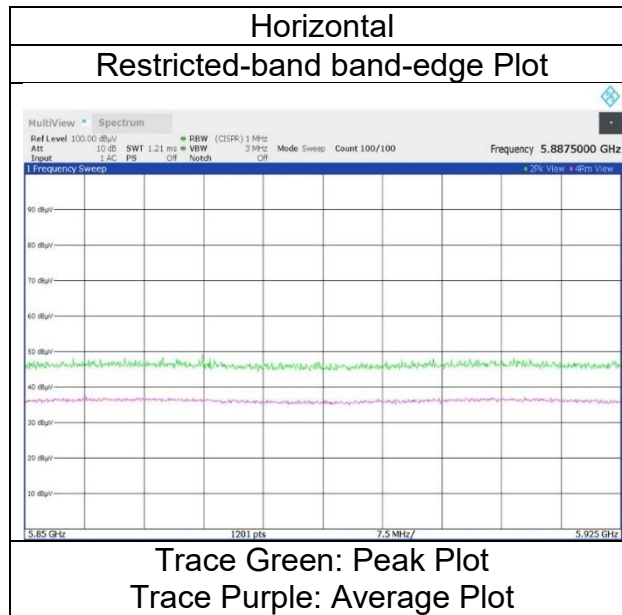
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDM), 5985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6225 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	12450.000	PK	46.23	38.33	-25.14	-	-9.54	49.88	73.9	24.0	150	0	Floor Noise
Hori.	12450.000	AV	34.16	38.33	-25.14	-	-9.54	37.81	53.9	16.0	150	0	Floor Noise
Vert.	12450.000	PK	46.06	38.33	-25.14	-	-9.54	49.71	73.9	24.1	150	0	Floor Noise
Vert.	12450.000	AV	34.87	38.33	-25.14	-	-9.54	38.52	53.9	15.3	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6385 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12770.000	PK	46.14	38.53	-24.97	-	0.00	-9.54	50.16	-45.07	-7.0	38.0	150	0	Floor Noise
Hori.	12770.000	AV	33.79	38.53	-24.97	-	0.00	-9.54	37.81	-57.42	-27.0	30.4	150	0	Floor Noise
Vert.	12770.000	PK	45.84	38.53	-24.97	-	0.00	-9.54	49.86	-45.37	-7.0	38.3	150	0	Floor Noise
Vert.	12770.000	AV	34.17	38.53	-24.97	-	0.00	-9.54	38.19	-57.04	-27.0	30.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6465 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12930.000	PK	45.91	38.76	-24.91	-	0.00	-9.54	50.22	-45.01	-7.0	38.0	150	0	Floor Noise
Hori.	12930.000	AV	34.54	38.76	-24.91	-	0.00	-9.54	38.85	-56.38	-27.0	29.3	150	0	Floor Noise
Vert.	12930.000	PK	46.21	38.76	-24.91	-	0.00	-9.54	50.52	-44.71	-7.0	37.7	150	0	Floor Noise
Vert.	12930.000	AV	34.28	38.76	-24.91	-	0.00	-9.54	38.59	-56.64	-27.0	29.6	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20 \log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6545 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13090.000	PK	46.85	38.86	-24.82	-	0.00	-9.54	51.35	-43.88	-7.0	36.8	150	0	Floor Noise
Hori.	13090.000	AV	34.60	38.86	-24.82	-	0.00	-9.54	39.10	-56.13	-27.0	29.1	150	0	Floor Noise
Vert.	13090.000	PK	46.30	38.86	-24.82	-	0.00	-9.54	50.80	-44.43	-7.0	37.4	150	0	Floor Noise
Vert.	13090.000	AV	34.56	38.86	-24.82	-	0.00	-9.54	39.06	-56.17	-27.0	29.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6625 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	13250.000	PK	45.97	38.97	-24.75	-	-9.54	50.65	73.9	23.2	150	0	Floor Noise
Hori.	13250.000	AV	34.20	38.97	-24.75	-	-9.54	38.88	53.9	15.0	150	0	Floor Noise
Vert.	13250.000	PK	45.95	38.97	-24.75	-	-9.54	50.63	73.9	23.2	150	0	Floor Noise
Vert.	13250.000	AV	34.48	38.97	-24.75	-	-9.54	39.16	53.9	14.7	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6705 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13410.000	PK	46.17	39.10	-24.67	-	0.00	-9.54	51.06	-44.17	-7.0	37.1	150	0	Floor Noise
Hori.	13410.000	AV	34.80	39.10	-24.67	-	0.00	-9.54	39.69	-55.54	-27.0	28.5	150	0	Floor Noise
Vert.	13410.000	PK	46.36	39.10	-24.67	-	0.00	-9.54	51.25	-43.98	-7.0	36.9	150	0	Floor Noise
Vert.	13410.000	AV	34.97	39.10	-24.67	-	0.00	-9.54	39.86	-55.37	-27.0	28.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6865 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13730.000	PK	46.13	39.07	-24.70	-	0.00	-9.54	50.96	-44.27	-7.0	37.2	150	0	Floor Noise
Hori.	13730.000	AV	34.96	39.07	-24.70	-	0.00	-9.54	39.79	-55.44	-27.0	28.4	150	0	Floor Noise
Vert.	13730.000	PK	46.24	39.07	-24.70	-	0.00	-9.54	51.07	-44.16	-7.0	37.1	150	0	Floor Noise
Vert.	13730.000	AV	34.40	39.07	-24.70	-	0.00	-9.54	39.23	-56.00	-27.0	29.0	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6945 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13890.000	PK	46.85	39.08	-24.74	-	0.00	-9.54	51.65	-43.58	-7.0	36.5	150	0	Floor Noise
Hori.	13890.000	AV	35.07	39.08	-24.74	-	0.00	-9.54	39.87	-55.36	-27.0	28.3	150	0	Floor Noise
Vert.	13890.000	PK	46.31	39.08	-24.74	-	0.00	-9.54	51.11	-44.12	-7.0	37.1	150	0	Floor Noise
Vert.	13890.000	AV	34.21	39.08	-24.74	-	0.00	-9.54	39.01	-56.22	-27.0	29.2	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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	May 24, 2024	May 31, 2024
Temperature / Humidity	23 deg. C, 62 %RH	23 deg. C, 52 %RH
Engineer	Yohsuke Matsuzawa	Yuta Shiba
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-80 (OFDM), 7025 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.35	36.14	-24.19	-	0.00	2.10	61.40	-33.83	-7.0	26.8	120	359	-
Hori.	14050.000	PK	46.47	39.04	-24.76	-	0.00	-9.54	51.21	-44.02	-7.0	37.0	150	0	Floor Noise
Hori.	7125.000	AV	35.70	36.14	-24.19	-	0.00	2.10	49.75	-45.48	-27.0	18.4	120	359	-
Hori.	14050.000	AV	34.76	39.04	-24.76	-	0.00	-9.54	39.50	-55.73	-27.0	28.7	150	0	Floor Noise
Vert.	7125.000	PK	47.67	36.14	-24.19	-	0.00	2.10	61.72	-33.51	-7.0	26.5	101	189	-
Vert.	14050.000	PK	47.43	39.04	-24.76	-	0.00	-9.54	52.17	-43.06	-7.0	36.0	150	0	Floor Noise
Vert.	7125.000	AV	35.69	36.14	-24.19	-	0.00	2.10	49.74	-45.49	-27.0	18.4	101	189	-
Vert.	14050.000	AV	33.82	39.04	-24.76	-	0.00	-9.54	38.56	-56.67	-27.0	29.6	150	0	Floor Noise

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

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

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

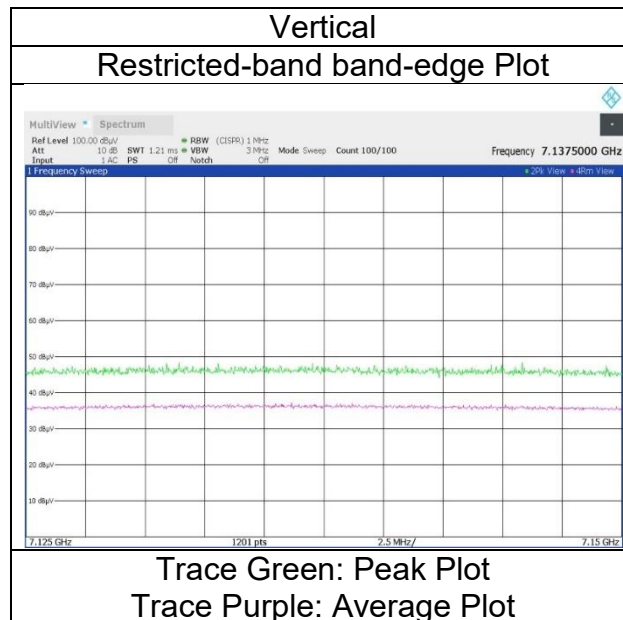
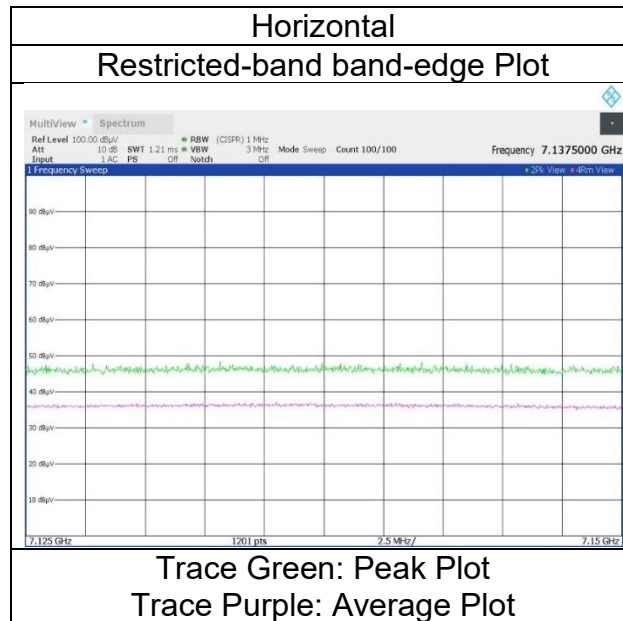
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 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	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 (OFDM), 7025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 24, 2024 May 30, 2024
Temperature / Humidity 23 deg. C, 62 %RH 22 deg. C, 63 %RH
Engineer Yohsuke Matsuzawa Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	12050.000	PK	45.75	38.65	-25.63	-	-9.54	49.23	73.9	24.6	150	0	Floor Noise
Hori.	12050.000	AV	35.28	38.65	-25.63	-	-9.54	38.76	53.9	15.1	150	0	Floor Noise
Vert.	12050.000	PK	46.01	38.65	-25.63	-	-9.54	49.49	73.9	24.4	150	0	Floor Noise
Vert.	12050.000	AV	34.66	38.65	-25.63	-	-9.54	38.14	53.9	15.7	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	45.93	32.46	-24.99	-	0.00	2.10	55.50	-39.73	-7.0	32.7	122	340	-
Hori.	5925.000	AV	35.12	32.46	-24.99	-	0.00	2.10	44.69	-50.54	-27.0	23.5	122	340	-
Vert.	5925.000	PK	48.73	32.46	-24.99	-	0.00	2.10	58.30	-36.93	-7.0	29.9	175	339	-
Vert.	5925.000	AV	35.88	32.46	-24.99	-	0.00	2.10	45.45	-49.78	-27.0	22.7	175	339	-

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

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

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

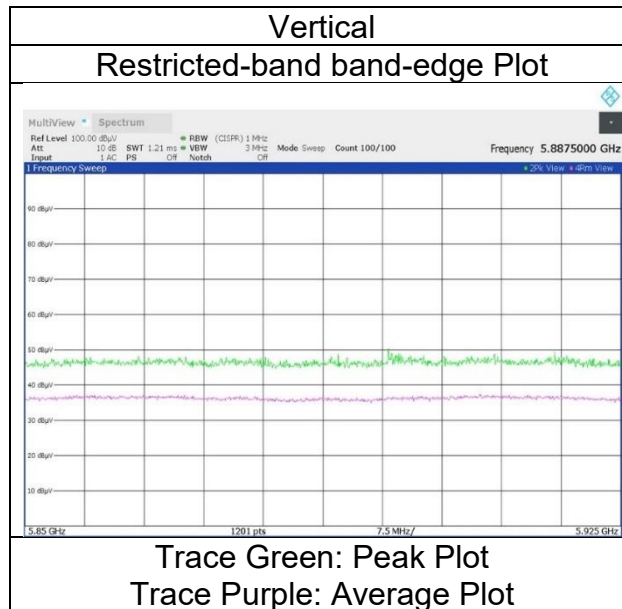
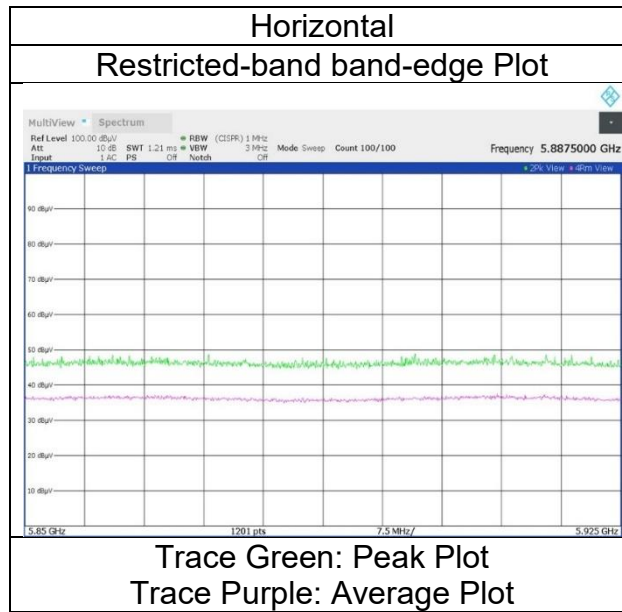
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz - 10 GHz)
Mode	Tx 11ax-160 (OFDM), 6025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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	June 14, 2024	May 31, 2024
Temperature / Humidity	23 deg. C, 65 %RH	23 deg. C, 52 %RH
Engineer	Hiromasa Sato	Yuta Shiba
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-160 (OFDM), 6185 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH1: 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.	12370.000	PK	46.20	38.38	-25.25	-	-9.54	49.79	73.9	24.1	150	0	Floor Noise
Hori.	12370.000	AV	34.66	38.38	-25.25	-	-9.54	38.25	53.9	15.6	150	0	Floor Noise
Vert.	12370.000	PK	46.09	38.38	-25.25	-	-9.54	49.68	73.9	24.2	150	0	Floor Noise
Vert.	12370.000	AV	34.32	38.38	-25.25	-	-9.54	37.91	53.9	15.9	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6345 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	12690.000	PK	46.03	38.45	-25.00	-	-9.54	49.94	73.9	23.9	150	0	Floor Noise
Hori.	12690.000	AV	34.50	38.45	-25.00	-	-9.54	38.41	53.9	15.4	150	0	Floor Noise
Vert.	12690.000	PK	46.27	38.45	-25.00	-	-9.54	50.18	73.9	23.7	150	0	Floor Noise
Vert.	12690.000	AV	34.80	38.45	-25.00	-	-9.54	38.71	53.9	15.1	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6505 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13010.000	PK	46.61	38.82	-24.87	-	0.00	-9.54	51.02	-44.21	-7.0	37.2	150	0	Floor Noise
Hori.	13010.000	AV	34.78	38.82	-24.87	-	0.00	-9.54	39.19	-56.04	-27.0	29.0	150	0	Floor Noise
Vert.	13010.000	PK	46.01	38.82	-24.87	-	0.00	-9.54	50.42	-44.81	-7.0	37.8	150	0	Floor Noise
Vert.	13010.000	AV	34.57	38.82	-24.87	-	0.00	-9.54	38.98	-56.25	-27.0	29.2	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6665 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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.	13330.000	PK	45.90	39.03	-24.71	-	-9.54	50.68	73.9	23.2	150	0	Floor Noise
Hori.	13330.000	AV	34.05	39.03	-24.71	-	-9.54	38.83	53.9	15.0	150	0	Floor Noise
Vert.	13330.000	PK	45.70	39.03	-24.71	-	-9.54	50.48	73.9	23.4	150	0	Floor Noise
Vert.	13330.000	AV	34.21	39.03	-24.71	-	-9.54	38.99	53.9	14.9	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 June 14, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 52 %RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6825 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13650.000	PK	45.90	39.10	-24.67	-	0.00	-9.54	50.79	-44.44	-7.0	37.4	150	0	Floor Noise
Hori.	13650.000	AV	34.46	39.10	-24.67	-	0.00	-9.54	39.35	-55.88	-27.0	28.8	150	0	Floor Noise
Vert.	13650.000	PK	46.13	39.10	-24.67	-	0.00	-9.54	51.02	-44.21	-7.0	37.2	150	0	Floor Noise
Vert.	13650.000	AV	34.58	39.10	-24.67	-	0.00	-9.54	39.47	-55.76	-27.0	28.7	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 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 May 24, 2024 May 31, 2024
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 52 %RH
Engineer Yohsuke Matsuzawa Yuta Shiba
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.36	36.14	-24.19	-	0.00	2.10	60.41	-34.82	-7.0	27.8	177	179	-
Hori.	13970.000	PK	46.47	39.06	-24.76	-	0.00	-9.54	51.23	-44.00	-7.0	37.0	150	0	Floor Noise
Hori.	7125.000	AV	34.45	36.14	-24.19	-	0.00	2.10	48.50	-46.73	-27.0	19.7	177	179	-
Hori.	13970.000	AV	35.04	39.06	-24.76	-	0.00	-9.54	39.80	-55.43	-27.0	28.4	150	0	Floor Noise
Vert.	7125.000	PK	47.32	36.14	-24.19	-	0.00	2.10	61.37	-33.86	-7.0	26.8	164	197	-
Vert.	13970.000	PK	46.32	39.06	-24.76	-	0.00	-9.54	51.08	-44.15	-7.0	37.1	150	0	Floor Noise
Vert.	7125.000	AV	35.73	36.14	-24.19	-	0.00	2.10	49.78	-45.45	-27.0	18.4	164	197	-
Vert.	13970.000	AV	34.22	39.06	-24.76	-	0.00	-9.54	38.98	-56.25	-27.0	29.2	150	0	Floor Noise

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

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

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

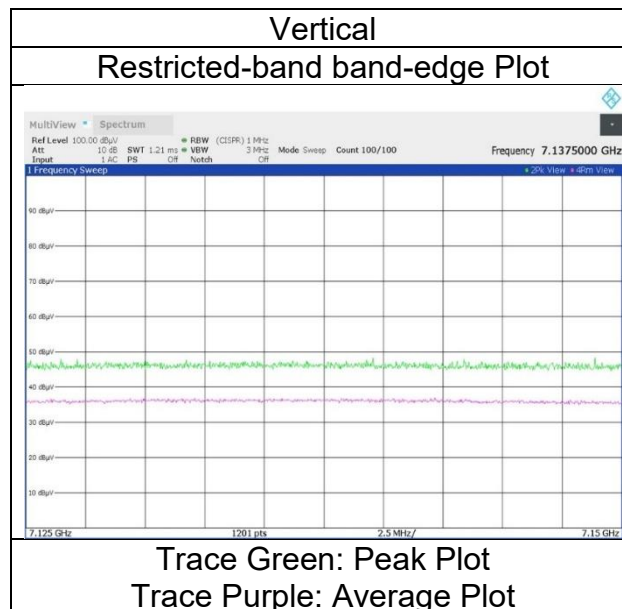
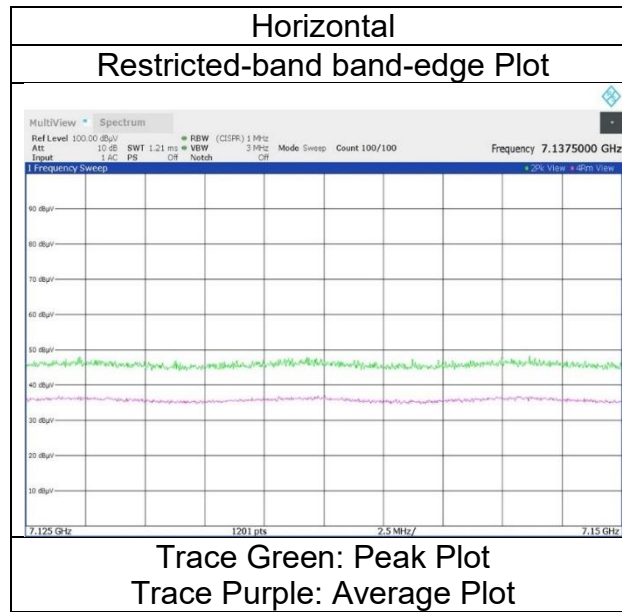
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\text{log} (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %RH
Engineer	Yohsuke Matsuzawa (1 GHz - 10 GHz)
Mode	Tx 11ax-160 (OFDM), 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH1: 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 May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.51	32.46	-24.99	-	0.00	2.10	57.08	-38.15	-7.0	31.1	137	343	-
Hori.	5925.000	AV	35.55	32.46	-24.99	-	0.00	2.10	45.12	-50.11	-27.0	23.1	137	343	-
Vert.	5925.000	PK	46.10	32.46	-24.99	-	0.00	2.10	55.67	-39.56	-7.0	32.5	150	340	-
Vert.	5925.000	AV	35.02	32.46	-24.99	-	0.00	2.10	44.59	-50.64	-27.0	23.6	150	340	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

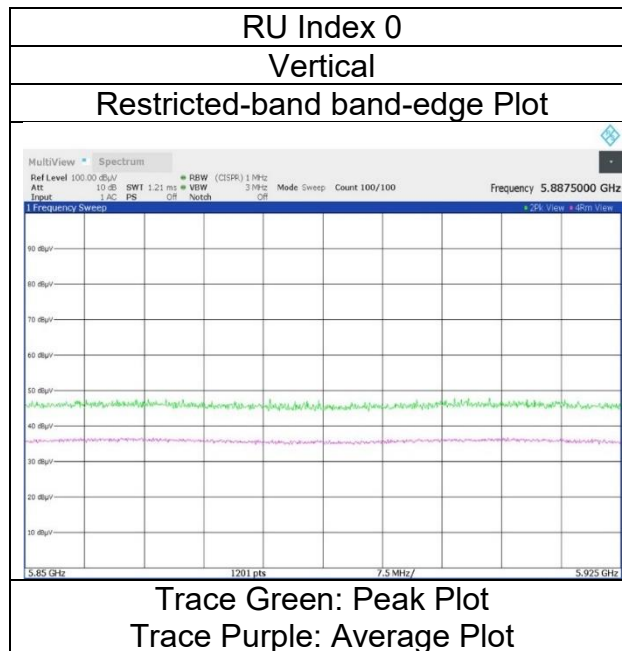
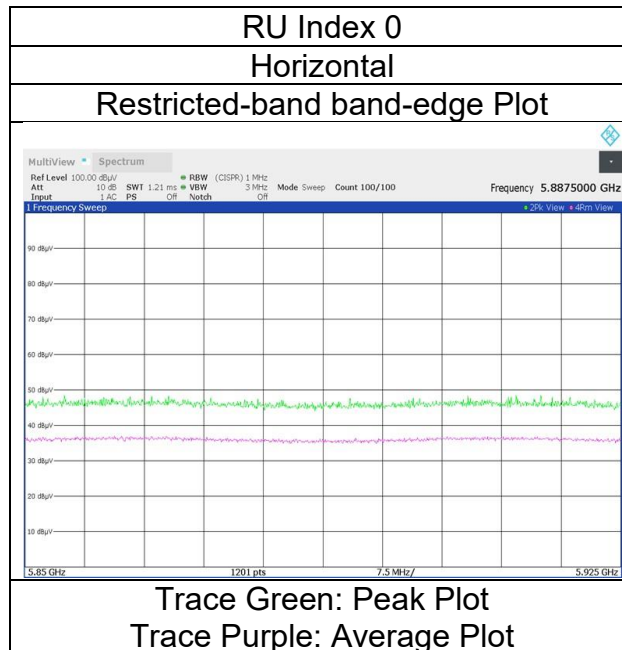
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 26-tone RU, 5955 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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 May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.53	36.14	-24.19	-	0.00	2.10	61.58	-33.65	-7.0	26.6	112	4	-
Hori.	7125.000	AV	35.78	36.14	-24.19	-	0.00	2.10	49.83	-45.40	-27.0	18.4	112	4	-
Vert.	7125.000	PK	45.55	36.14	-24.19	-	0.00	2.10	59.60	-35.63	-7.0	28.6	163	77	-
Vert.	7125.000	AV	34.64	36.14	-24.19	-	0.00	2.10	48.69	-46.54	-27.0	19.5	163	77	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

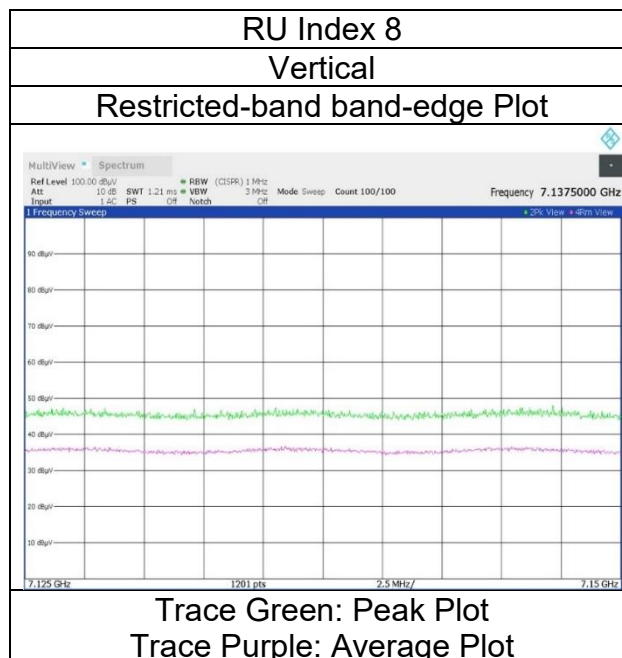
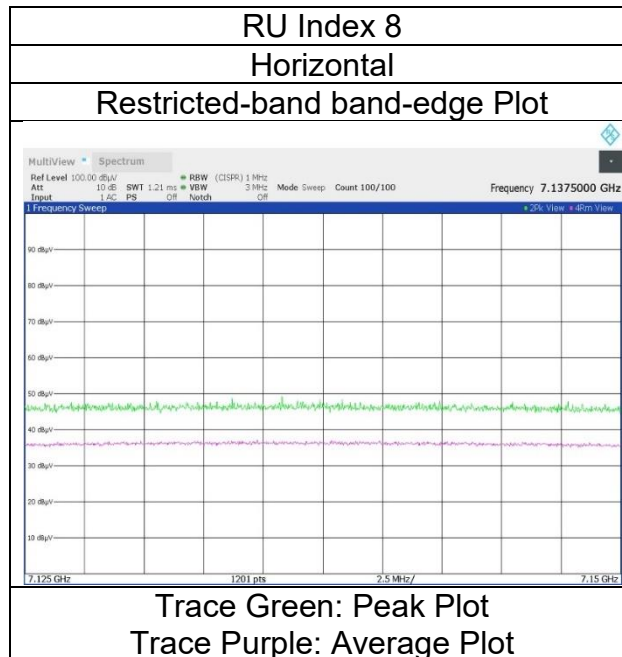
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 26-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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 May 27, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 64 %RH
Engineer Yuta Shiba Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 37

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11910.000	PK	46.06	38.54	-25.71	-	-9.54	49.35	73.9	24.5	150	0	Floor Noise
Hori.	17865.000	PK	45.93	40.39	-21.51	-	-9.54	55.27	73.9	18.6	150	0	Floor Noise
Hori.	11910.000	AV	34.22	38.54	-25.71	-	-9.54	37.51	53.9	16.3	150	0	Floor Noise
Hori.	17865.000	AV	34.45	40.39	-21.51	-	-9.54	43.79	53.9	10.1	150	0	Floor Noise
Vert.	11910.000	PK	46.33	38.54	-25.71	-	-9.54	49.62	73.9	24.2	150	0	Floor Noise
Vert.	17865.000	PK	46.16	40.39	-21.51	-	-9.54	55.50	73.9	18.4	150	0	Floor Noise
Vert.	11910.000	AV	34.32	38.54	-25.71	-	-9.54	37.61	53.9	16.2	150	0	Floor Noise
Vert.	17865.000	AV	34.49	40.39	-21.51	-	-9.54	43.83	53.9	10.0	150	0	Floor Noise

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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.93	32.46	-24.99	-	0.00	2.10	58.50	-36.73	-7.0	29.7	152	341	-
Hori.	5925.000	AV	35.61	32.46	-24.99	-	0.00	2.10	45.18	-50.05	-27.0	23.0	152	341	-
Vert.	5925.000	PK	45.35	32.46	-24.99	-	0.00	2.10	54.92	-40.31	-7.0	33.3	150	340	-
Vert.	5925.000	AV	35.04	32.46	-24.99	-	0.00	2.10	44.61	-50.62	-27.0	23.6	150	340	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

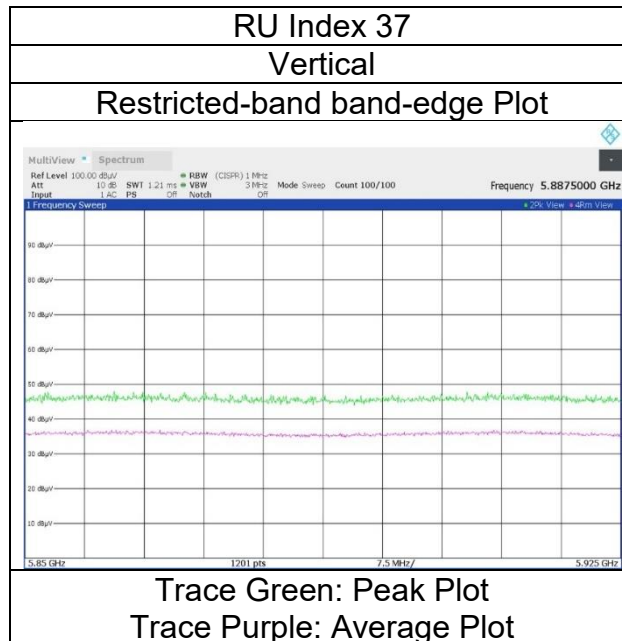
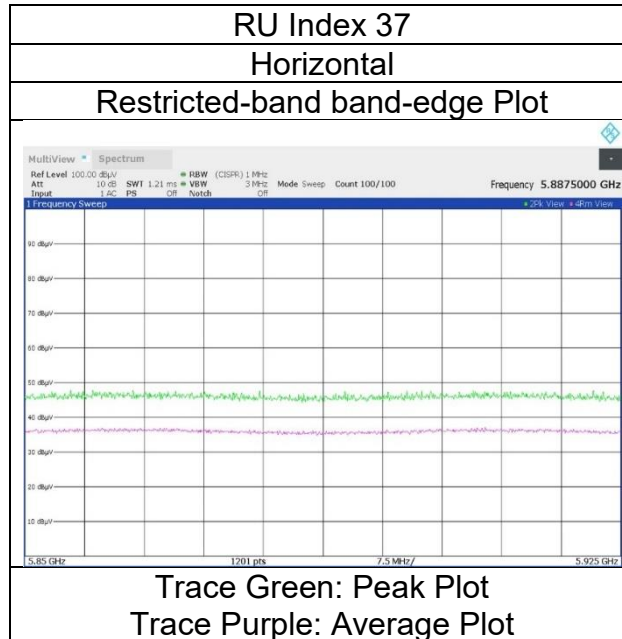
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 52-tone RU, 5955 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6415 MHz (CDD)
Antenna type 5G CH0: monopole, 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12830.000	PK	45.77	38.63	-24.94	-	0.00	-9.54	49.92	-45.31	-7.0	38.3	150	0	Floor Noise
Hori.	12830.000	AV	33.91	38.63	-24.94	-	0.00	-9.54	38.06	-57.17	-27.0	30.1	150	0	Floor Noise
Vert.	12830.000	PK	46.02	38.63	-24.94	-	0.00	-9.54	50.17	-45.06	-7.0	38.0	150	0	Floor Noise
Vert.	12830.000	AV	33.82	38.63	-24.94	-	0.00	-9.54	37.97	-57.26	-27.0	30.2	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12870.000	PK	45.77	38.68	-24.92	-	0.00	-9.54	49.99	-45.24	-7.0	38.2	150	0	Floor Noise
Hori.	12870.000	AV	34.46	38.68	-24.92	-	0.00	-9.54	38.68	-56.55	-27.0	29.5	150	0	Floor Noise
Vert.	12870.000	PK	46.16	38.68	-24.92	-	0.00	-9.54	50.38	-44.85	-7.0	37.8	150	0	Floor Noise
Vert.	12870.000	AV	34.32	38.68	-24.92	-	0.00	-9.54	38.54	-56.69	-27.0	29.6	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6515 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13030.000	PK	46.66	38.84	-24.86	-	0.00	-9.54	51.10	-44.13	-7.0	37.1	150	0	Floor Noise
Hori.	13030.000	AV	35.01	38.84	-24.86	-	0.00	-9.54	39.45	-55.78	-27.0	28.7	150	0	Floor Noise
Vert.	13030.000	PK	46.16	38.84	-24.86	-	0.00	-9.54	50.60	-44.63	-7.0	37.6	150	0	Floor Noise
Vert.	13030.000	AV	34.00	38.84	-24.86	-	0.00	-9.54	38.44	-56.79	-27.0	29.7	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 37

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)																
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	13070.000	PK	46.46	38.86	-24.83	-	0.00	-9.54	50.95	-44.28	-7.0	37.2	150	0	Floor Noise	
Hori.	13070.000	AV	34.55	38.86	-24.83	-	0.00	-9.54	39.04	-56.19	-27.0	29.1	150	0	Floor Noise	
Vert.	13070.000	PK	45.91	38.86	-24.83	-	0.00	-9.54	50.40	-44.83	-7.0	37.8	150	0	Floor Noise	
Vert.	13070.000	AV	34.23	38.86	-24.83	-	0.00	-9.54	38.72	-56.51	-27.0	29.5	150	0	Floor Noise	

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13710.000	PK	46.36	39.07	-24.69	-	0.00	-9.54	51.20	-44.03	-7.0	37.0	150	0	Floor Noise
Hori.	13710.000	AV	34.43	39.07	-24.69	-	0.00	-9.54	39.27	-55.96	-27.0	28.9	150	0	Floor Noise
Vert.	13710.000	PK	46.38	39.07	-24.69	-	0.00	-9.54	51.22	-44.01	-7.0	37.0	150	0	Floor Noise
Vert.	13710.000	AV	34.49	39.07	-24.69	-	0.00	-9.54	39.33	-55.90	-27.0	28.9	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 June 13, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH
Engineer Yusuke Tanikawara Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13790.000	PK	46.08	39.08	-24.71	-	0.00	-9.54	50.91	-44.32	-7.0	37.3	150	0	Floor Noise
Hori.	13790.000	AV	34.74	39.08	-24.71	-	0.00	-9.54	39.57	-55.66	-27.0	28.6	150	0	Floor Noise
Vert.	13790.000	PK	46.52	39.08	-24.71	-	0.00	-9.54	51.35	-43.88	-7.0	36.8	150	0	Floor Noise
Vert.	13790.000	AV	33.98	39.08	-24.71	-	0.00	-9.54	38.81	-56.42	-27.0	29.4	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 May 27, 2024 June 3, 2024
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 64 %RH
Engineer Yuta Shiba Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.41	36.14	-24.19	-	0.00	2.10	61.46	-33.77	-7.0	26.7	113	355	-
Hori.	14190.000	PK	46.40	39.08	-24.64	-	0.00	-9.54	51.30	-43.93	-7.0	36.9	150	0	Floor Noise
Hori.	7125.000	AV	35.92	36.14	-24.19	-	0.00	2.10	49.97	-45.26	-27.0	18.2	113	355	-
Hori.	14190.000	AV	34.06	39.08	-24.64	-	0.00	-9.54	38.96	-56.27	-27.0	29.2	150	0	Floor Noise
Vert.	7125.000	PK	46.21	36.14	-24.19	-	0.00	2.10	60.26	-34.97	-7.0	27.9	137	76	-
Vert.	14190.000	PK	47.11	39.08	-24.64	-	0.00	-9.54	52.01	-43.22	-7.0	36.2	150	0	Floor Noise
Vert.	7125.000	AV	34.99	36.14	-24.19	-	0.00	2.10	49.04	-46.19	-27.0	19.1	137	76	-
Vert.	14190.000	AV	33.22	39.08	-24.64	-	0.00	-9.54	38.12	-57.11	-27.0	30.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

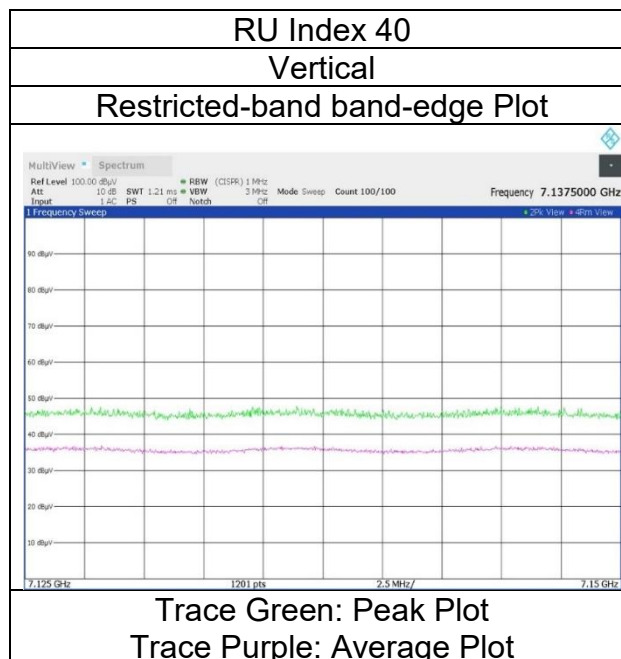
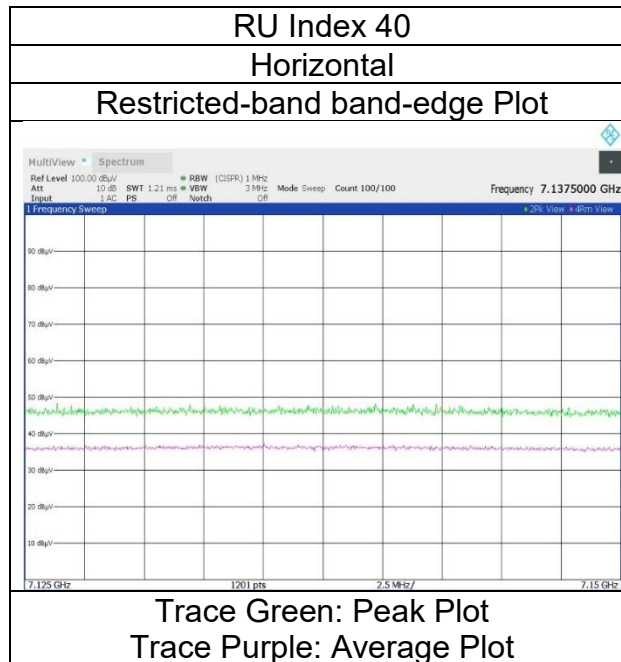
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 52-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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 May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU Index 53

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.40	32.46	-24.99	-	0.00	2.10	56.97	-38.26	-7.0	31.2	147	341	-
Hori.	5925.000	AV	35.39	32.46	-24.99	-	0.00	2.10	44.96	-50.27	-27.0	23.2	147	341	-
Vert.	5925.000	PK	46.45	32.46	-24.99	-	0.00	2.10	56.02	-39.21	-7.0	32.2	150	339	-
Vert.	5925.000	AV	34.95	32.46	-24.99	-	0.00	2.10	44.52	-50.71	-27.0	23.7	150	339	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

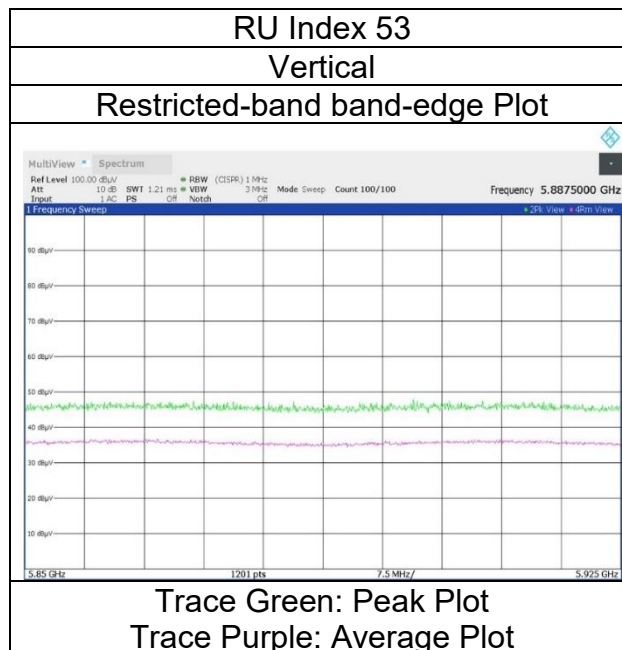
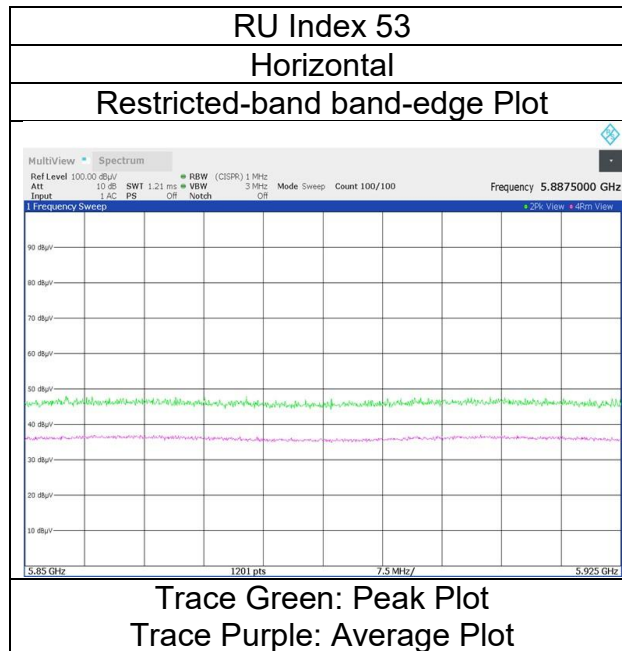
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 106-tone RU, 5955 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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 May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

RU 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.08	36.14	-24.19	-	0.00	2.10	61.13	-34.10	-7.0	27.1	113	3	-
Hori.	7125.000	AV	35.95	36.14	-24.19	-	0.00	2.10	50.00	-45.23	-27.0	18.2	113	3	-
Vert.	7125.000	PK	46.09	36.14	-24.19	-	0.00	2.10	60.14	-35.09	-7.0	28.0	150	78	-
Vert.	7125.000	AV	34.21	36.14	-24.19	-	0.00	2.10	48.26	-46.97	-27.0	19.9	150	78	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

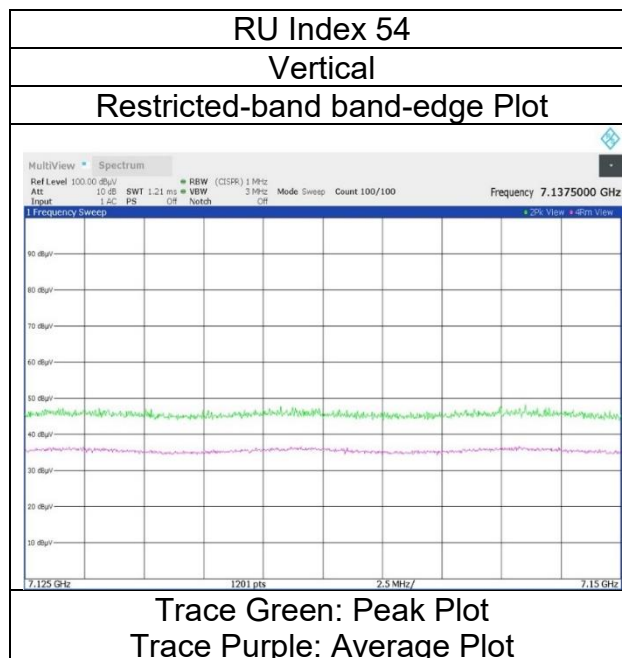
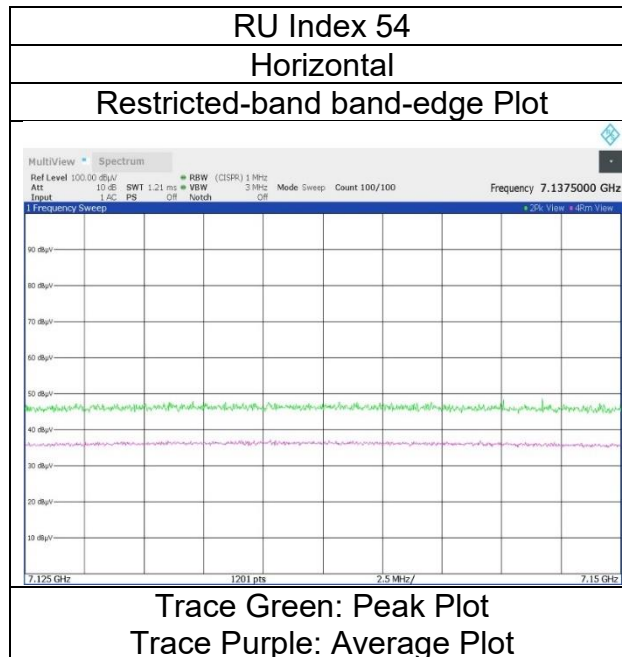
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 106-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

Mode
Antenna type



* 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.