

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) 242-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.05	38.54	-25.71	-	-9.54	49.34	73.9	24.5	150	0	Floor Noise
Hori.	11910.000	AV	34.43	38.54	-25.71	-	-9.54	37.72	53.9	16.1	150	0	Floor Noise
Vert.	11910.000	PK	47.22	38.54	-25.71	-	-9.54	50.51	73.9	23.3	150	0	Floor Noise
Vert.	11910.000	AV	34.15	38.54	-25.71	-	-9.54	37.44	53.9	16.4	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	47.45	32.46	-24.99	-	0.00	2.10	57.02	-38.21	-7.0	31.2	161	342	-
Hori.	5925.000	AV	35.58	32.46	-24.99	-	0.22	2.10	45.37	-49.86	-27.0	22.8	161	342	-
Vert.	5925.000	PK	46.06	32.46	-24.99	-	0.00	2.10	55.63	-39.60	-7.0	32.6	148	340	-
Vert.	5925.000	AV	34.51	32.46	-24.99	-	0.22	2.10	44.30	-50.93	-27.0	23.9	148	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] = $10 * \log((10^{\wedge}(Electric\ Field\ Strength\ [dBuV/m] / 20)) * 10^{\wedge}(-6) * Distance : 3\ [m])^{\wedge}2 / 30 * 10^{\wedge}3)$

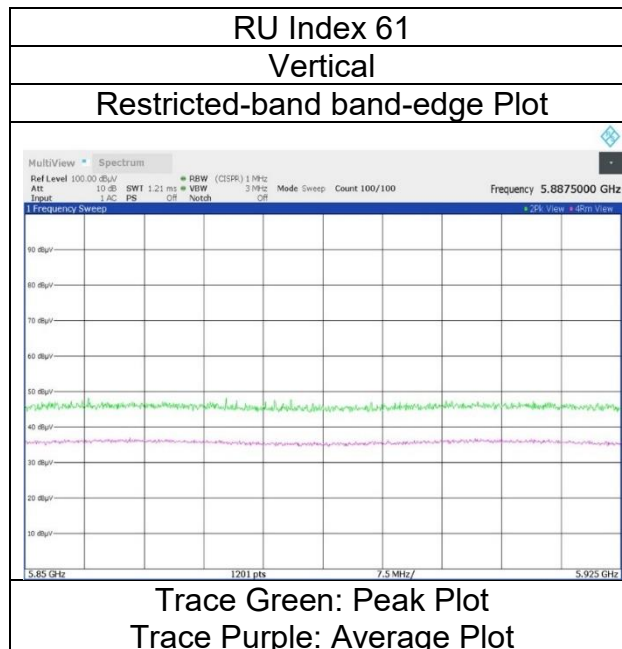
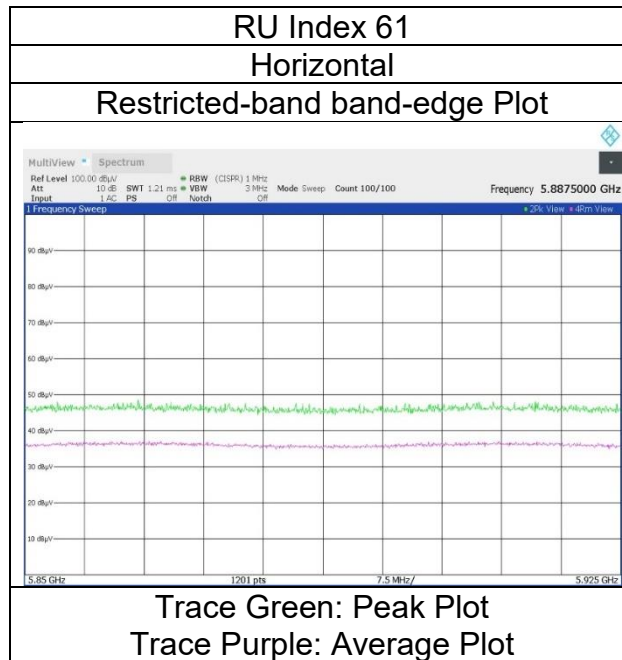
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
 (1 GHz -10 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 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 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) 242-tone RU, 6415 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.14	38.63	-24.94	-	0.00	-9.54	50.29	-44.94	-7.0	37.9	150	0	Floor Noise
Hori.	12830.000	AV	34.10	38.63	-24.94	-	0.00	-9.54	38.25	-56.98	-27.0	29.9	150	0	Floor Noise
Vert.	12830.000	PK	45.57	38.63	-24.94	-	0.00	-9.54	49.72	-45.51	-7.0	38.5	150	0	Floor Noise
Vert.	12830.000	AV	33.57	38.63	-24.94	-	0.00	-9.54	37.72	-57.51	-27.0	30.5	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

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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) 242-tone RU, 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.33	38.68	-24.92	-	0.00	-9.54	50.55	-44.68	-7.0	37.6	150	0	Floor Noise
Hori.	12870.000	AV	34.22	38.68	-24.92	-	0.00	-9.54	38.44	-56.79	-27.0	29.7	150	0	Floor Noise
Vert.	12870.000	PK	45.81	38.68	-24.92	-	0.00	-9.54	50.03	-45.20	-7.0	38.2	150	0	Floor Noise
Vert.	12870.000	AV	33.63	38.68	-24.92	-	0.00	-9.54	37.85	-57.38	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

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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)
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Antenna type 5G CH0: monopole , 5G CH1: slot

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(* 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	46.48	38.84	-24.86	-	0.00	-9.54	50.92	-44.31	-7.0	37.3	150	0	Floor Noise	
Hori.	13030.000	AV	34.28	38.84	-24.86	-	0.00	-9.54	38.72	-56.51	-27.0	29.5	150	0	Floor Noise	
Vert.	13030.000	PK	47.17	38.84	-24.86	-	0.00	-9.54	51.61	-43.62	-7.0	36.6	150	0	Floor Noise	
Vert.	13030.000	AV	34.45	38.84	-24.86	-	0.00	-9.54	38.89	-56.34	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{(-6)} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

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

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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) 242-tone RU, 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.49	38.86	-24.83	-	0.00	-9.54	50.98	-44.25	-7.0	37.2	150	0	Floor Noise
Hori.	13070.000	AV	34.49	38.86	-24.83	-	0.00	-9.54	38.98	-56.25	-27.0	29.2	150	0	Floor Noise
Vert.	13070.000	PK	46.32	38.86	-24.83	-	0.00	-9.54	50.81	-44.42	-7.0	37.4	150	0	Floor Noise
Vert.	13070.000	AV	34.25	38.86	-24.83	-	0.00	-9.54	38.74	-56.49	-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 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) 242-tone RU, 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.62	39.07	-24.69	-	0.00	-9.54	51.46	-43.77	-7.0	36.7	150	0	Floor Noise	
Hori.	13710.000	AV	34.51	39.07	-24.69	-	0.00	-9.54	39.35	-55.88	-27.0	28.8	150	0	Floor Noise	
Vert.	13710.000	PK	46.20	39.07	-24.69	-	0.00	-9.54	51.04	-44.19	-7.0	37.1	150	0	Floor Noise	
Vert.	13710.000	AV	34.87	39.07	-24.69	-	0.00	-9.54	39.71	-55.52	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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) 242-tone RU, 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.12	39.08	-24.71	-	0.00	-9.54	50.95	-44.28	-7.0	37.2	150	0	Floor Noise
Hori.	13790.000	AV	33.72	39.08	-24.71	-	0.00	-9.54	38.55	-56.68	-27.0	29.6	150	0	Floor Noise
Vert.	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
Vert.	13790.000	AV	33.77	39.08	-24.71	-	0.00	-9.54	38.60	-56.63	-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]) = $10 * \text{LOG} ((10 ^ {(\text{Electric Field Strength [dBuV/m]} / 20)} * 10 ^ {(-6)} * \text{Distance : 3 [m]}) ^ 2 / 30 * 10 ^ 3)$

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

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

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	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) 242-tone RU, 7095 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH1: slot	

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.	7125.000	PK	47.21	36.14	-24.19	-	0.00	2.10	61.26	-33.97	-7.0	26.9	147	351	-
Hori.	14190.000	PK	46.16	39.08	-24.64	-	0.00	-9.54	51.06	-44.17	-7.0	37.1	150	0	Floor Noise
Hori.	7125.000	AV	35.88	36.14	-24.19	-	0.22	2.10	50.15	-45.08	-27.0	18.0	147	351	-
Hori.	14190.000	AV	34.57	39.08	-24.64	-	0.00	-9.54	39.47	-55.76	-27.0	28.7	150	0	Floor Noise
Vert.	7125.000	PK	46.11	36.14	-24.19	-	0.00	2.10	60.16	-35.07	-7.0	28.0	150	73	-
Vert.	14190.000	PK	45.93	39.08	-24.64	-	0.00	-9.54	50.83	-44.40	-7.0	37.4	150	0	Floor Noise
Vert.	7125.000	AV	34.77	36.14	-24.19	-	0.22	2.10	49.04	-46.19	-27.0	19.1	150	73	-
Vert.	14190.000	AV	34.79	39.08	-24.64	-	0.00	-9.54	39.69	-55.54	-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)

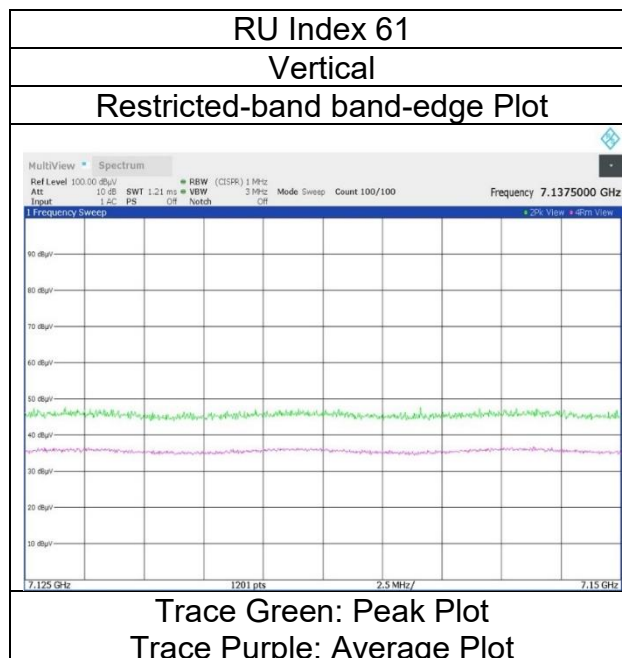
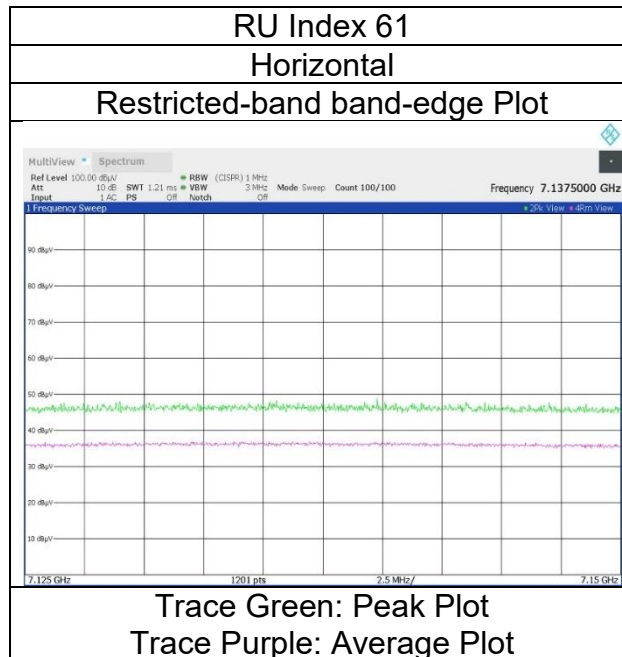
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date	May 27, 2024
Temperature / Humidity	23 deg. C, 65 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 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.

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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 (OFDMA) 26-tone RU, 5965 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	48.02	32.46	-24.99	-	0.00	2.10	57.59	-37.64	-7.0	30.6	133	343	-
Hori.	5925.000	AV	35.70	32.46	-24.99	-	0.00	2.10	45.27	-49.96	-27.0	22.9	133	343	-
Vert.	5925.000	PK	45.80	32.46	-24.99	-	0.00	2.10	55.37	-39.86	-7.0	32.8	150	339	-
Vert.	5925.000	AV	34.83	32.46	-24.99	-	0.00	2.10	44.40	-50.83	-27.0	23.8	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

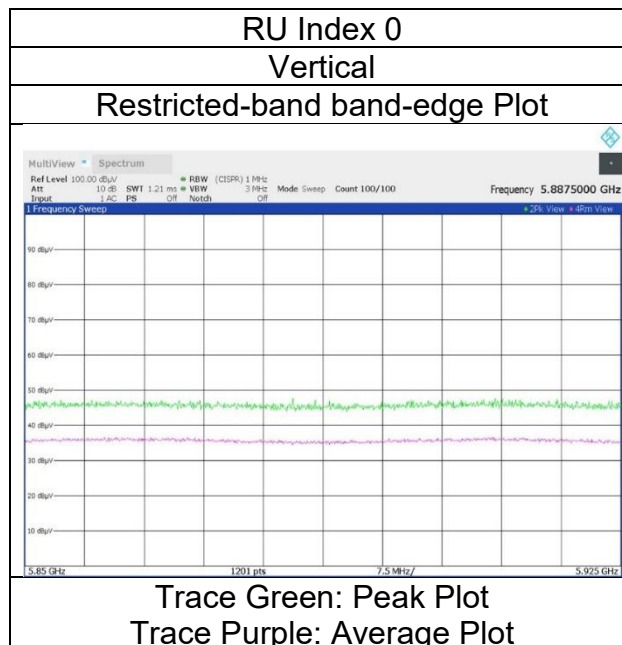
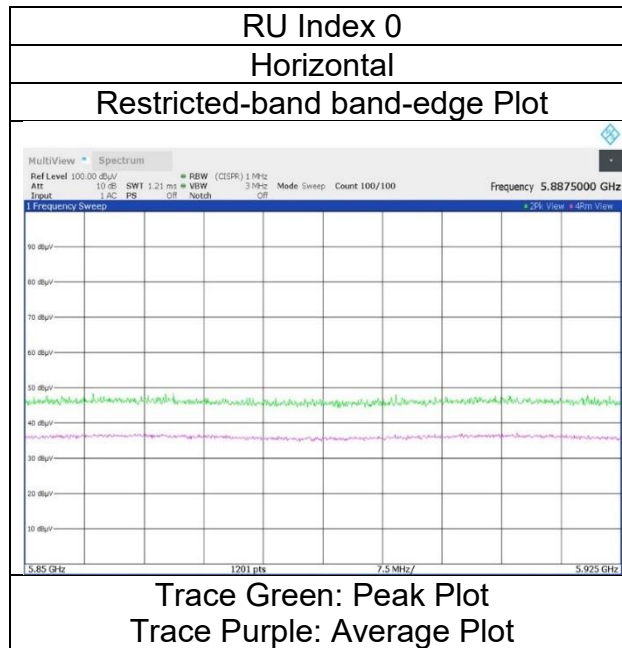
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	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 (OFDMA) 26-tone RU, 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
Date May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	48.05	36.14	-24.19	-	0.00	2.10	62.10	-33.13	-7.0	26.1	112	4	-
Hori.	7125.000	AV	35.59	36.14	-24.19	-	0.00	2.10	49.64	-45.59	-27.0	18.5	112	4	-
Vert.	7125.000	PK	46.77	36.14	-24.19	-	0.00	2.10	60.82	-34.41	-7.0	27.4	150	77	-
Vert.	7125.000	AV	35.19	36.14	-24.19	-	0.00	2.10	49.24	-45.99	-27.0	18.9	150	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

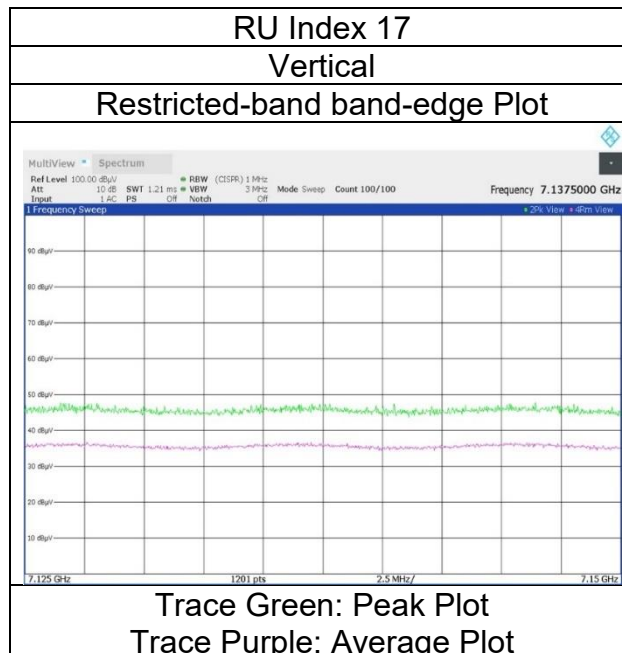
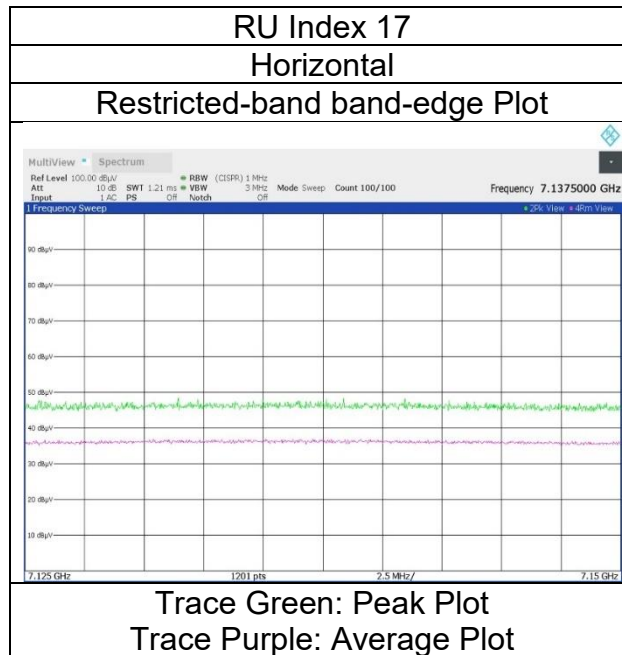
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 27, 2024
Temperature / Humidity	23 deg. C, 65 %RH
Engineer	Yuta Shiba
Mode	Tx 11ax-40 (OFDMA) 26-tone RU, 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
Date May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5965 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.	5925.000	PK	47.48	32.46	-24.99	-	0.00	2.10	57.05	-38.18	-7.0	31.1	146	342	-
Hori.	5925.000	AV	35.79	32.46	-24.99	-	0.00	2.10	45.36	-49.87	-27.0	22.8	146	342	-
Vert.	5925.000	PK	45.30	32.46	-24.99	-	0.00	2.10	54.87	-40.36	-7.0	33.3	150	339	-
Vert.	5925.000	AV	34.50	32.46	-24.99	-	0.00	2.10	44.07	-51.16	-27.0	24.1	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]) = $10 \times \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

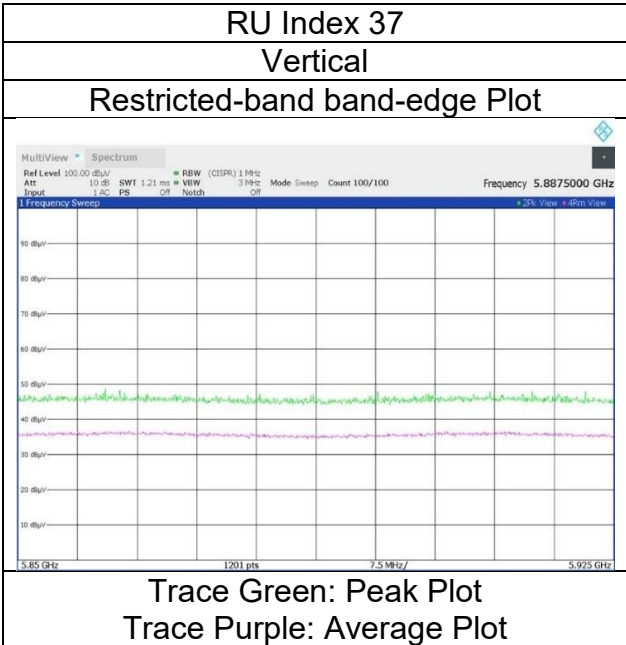
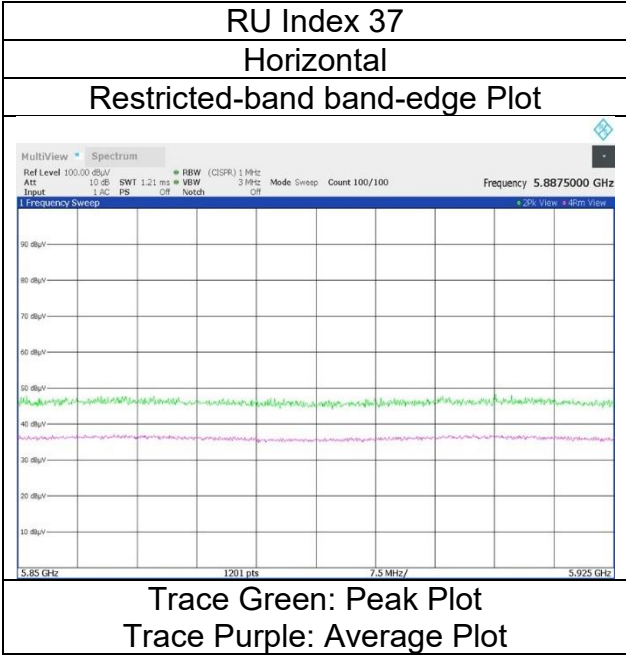
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date	May 27, 2024
Temperature / Humidity	23 deg. C,65 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDMA) 52-tone RU, 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
Date May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	47.87	36.14	-24.19	-	0.00	2.10	61.92	-33.31	-7.0	26.3	113	4	-
Hori.	7125.000	AV	35.93	36.14	-24.19	-	0.00	2.10	49.98	-45.25	-27.0	18.2	113	4	-
Vert.	7125.000	PK	45.78	36.14	-24.19	-	0.00	2.10	59.83	-35.40	-7.0	28.4	164	76	-
Vert.	7125.000	AV	34.58	36.14	-24.19	-	0.00	2.10	48.63	-46.60	-27.0	19.6	164	76	-

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

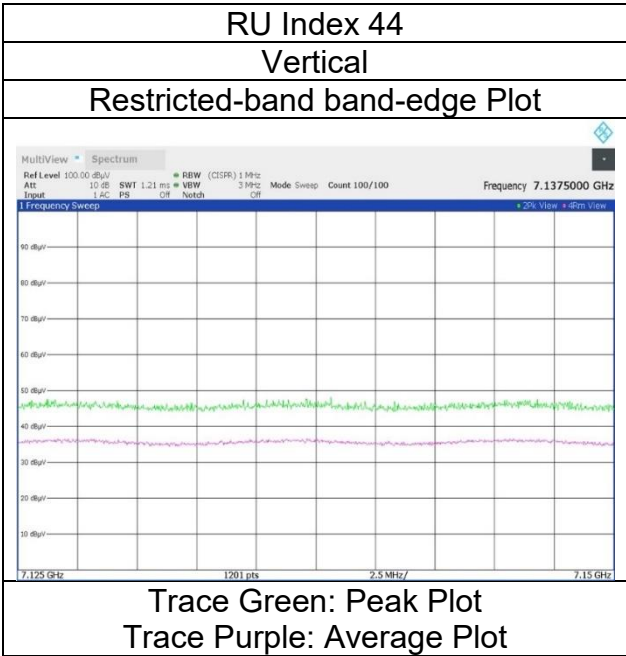
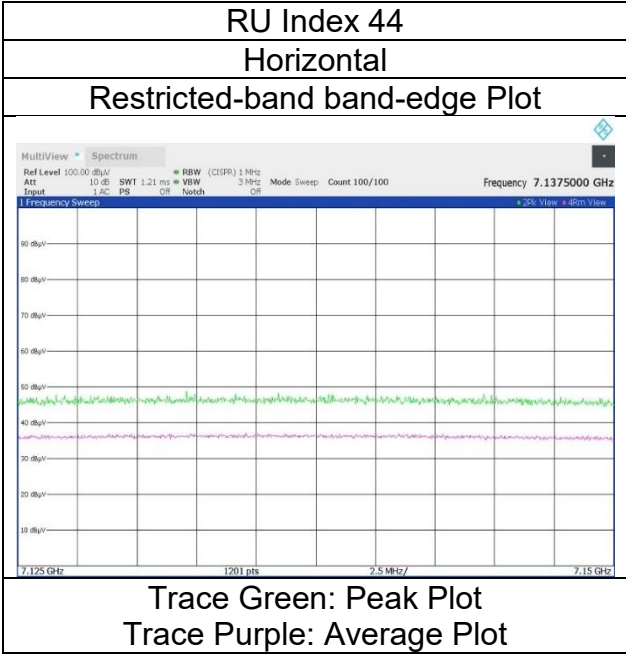
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date	May 27, 2024
Temperature / Humidity	23 deg. C,65 %RH
Engineer	Yuta Shiba
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDMA) 52-tone RU, 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
Date May 27, 2024
Temperature / Humidity 23 deg. C, 65 %RH
Engineer Yuta Shiba
(1 GHz -10 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 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	47.92	32.46	-24.99	-	0.00	2.10	57.49	-37.74	-7.0	30.7	146	341	-
Hori.	5925.000	AV	35.67	32.46	-24.99	-	0.00	2.10	45.24	-49.99	-27.0	22.9	146	341	-
Vert.	5925.000	PK	45.48	32.46	-24.99	-	0.00	2.10	55.05	-40.18	-7.0	33.1	150	339	-
Vert.	5925.000	AV	34.77	32.46	-24.99	-	0.00	2.10	44.34	-50.89	-27.0	23.8	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

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

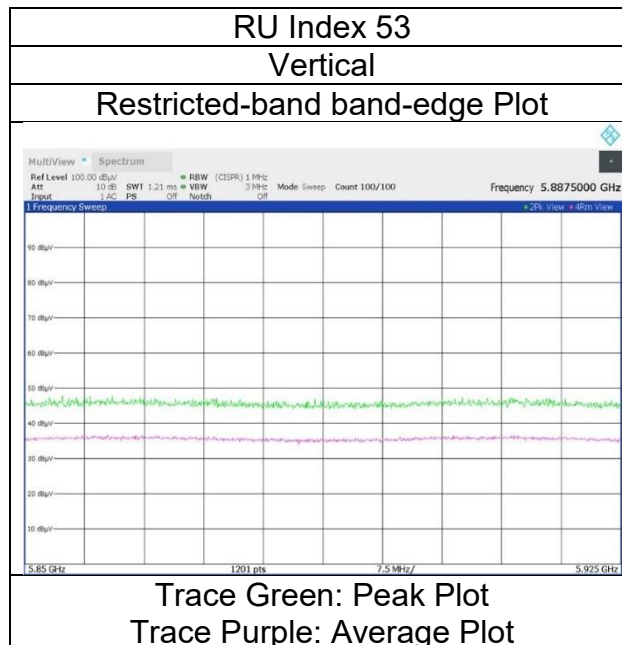
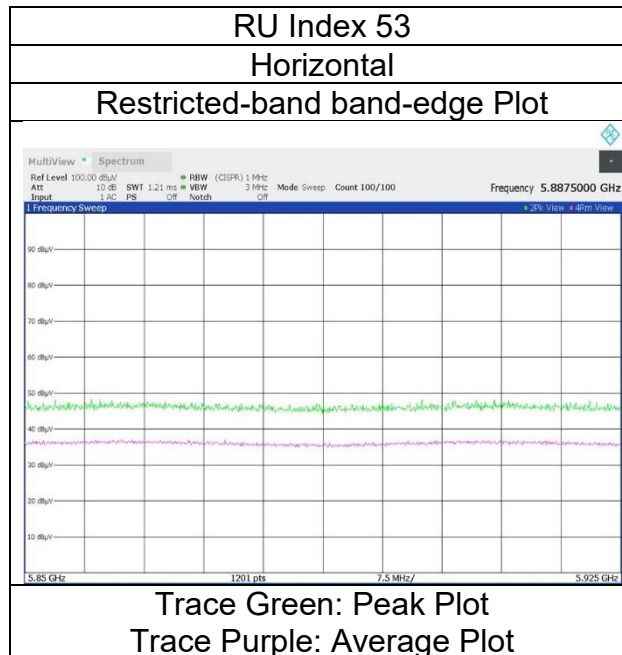
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

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-40 (OFDMA) 106 -tone RU, 5965 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-40 (OFDMA) 106 -tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	47.78	36.14	-24.19	-	0.00	2.10	61.83	-33.40	-7.0	26.4	113	4	-
Hori.	7125.000	AV	35.92	36.14	-24.19	-	0.00	2.10	49.97	-45.26	-27.0	18.2	113	4	-
Vert.	7125.000	PK	46.71	36.14	-24.19	-	0.00	2.10	60.76	-34.47	-7.0	27.4	140	76	-
Vert.	7125.000	AV	34.42	36.14	-24.19	-	0.00	2.10	48.47	-46.76	-27.0	19.7	140	76	-

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

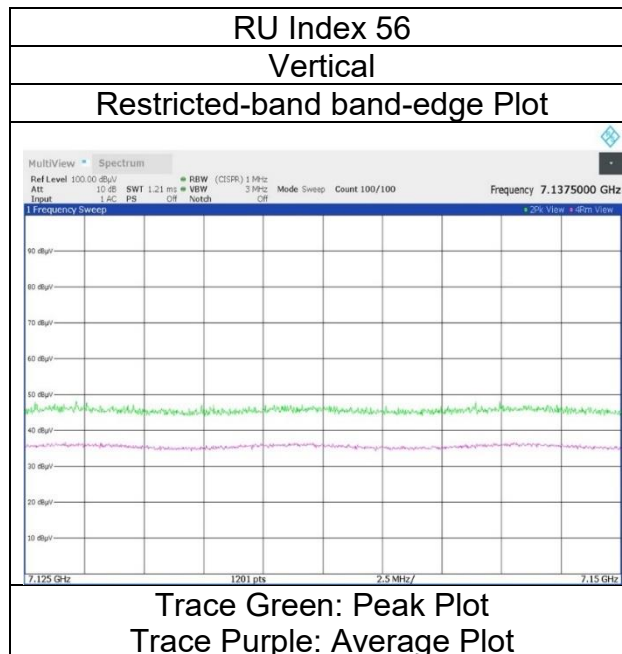
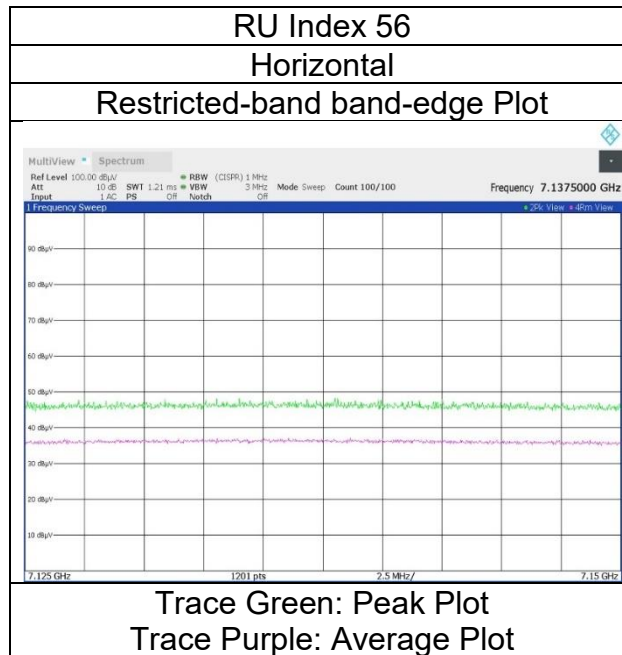
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 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-40 (OFDMA) 242-tone RU, 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	47.30	32.46	-24.99	-	0.00	2.10	56.87	-38.36	-7.0	31.3	133	343	-
Hori.	5925.000	AV	35.30	32.46	-24.99	-	0.00	2.10	44.87	-50.36	-27.0	23.3	133	343	-
Vert.	5925.000	PK	46.12	32.46	-24.99	-	0.00	2.10	55.69	-39.54	-7.0	32.5	153	338	-
Vert.	5925.000	AV	35.48	32.46	-24.99	-	0.00	2.10	45.05	-50.18	-27.0	23.1	153	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \cdot 10^3$

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

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

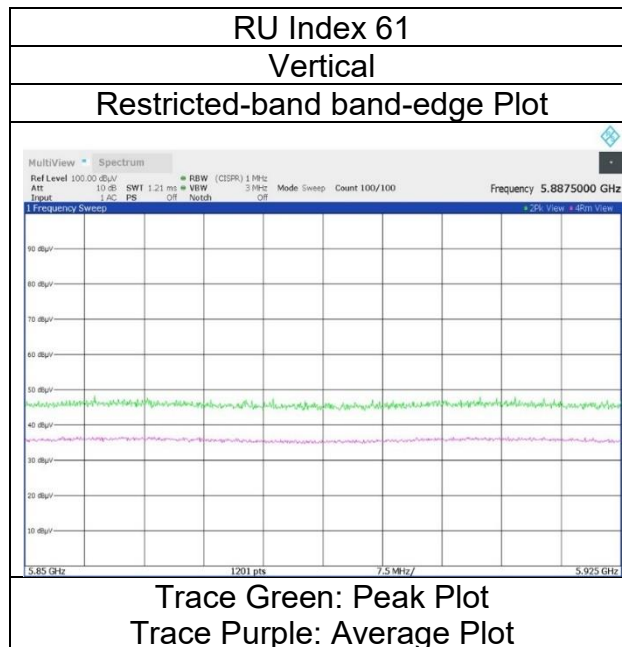
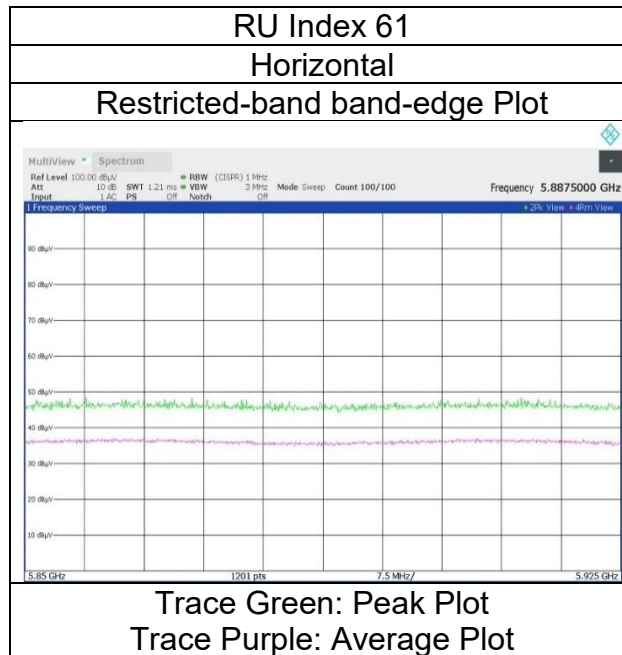
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

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-40 (OFDMA) 242-tone RU, 5965 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-40 (OFDMA) 242-tone RU, 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	46.85	35.91	-23.77	-	0.00	2.10	61.09	-34.14	-7.0	27.1	108	338	-
Hori.	7125.000	AV	35.64	35.91	-23.77	-	0.00	2.10	49.88	-45.35	-27.0	18.3	108	338	-
Vert.	7125.000	PK	47.42	35.91	-23.77	-	0.00	2.10	61.66	-33.57	-7.0	26.5	130	85	-
Vert.	7125.000	AV	35.38	35.91	-23.77	-	0.00	2.10	49.62	-45.61	-27.0	18.6	130	85	-

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

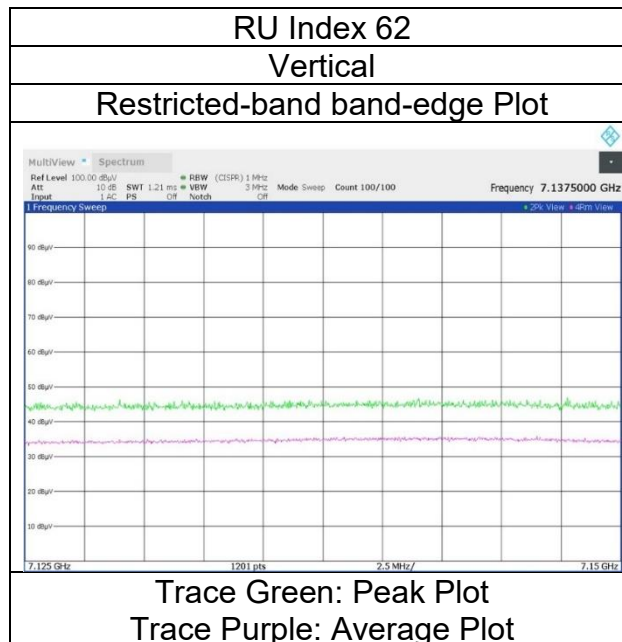
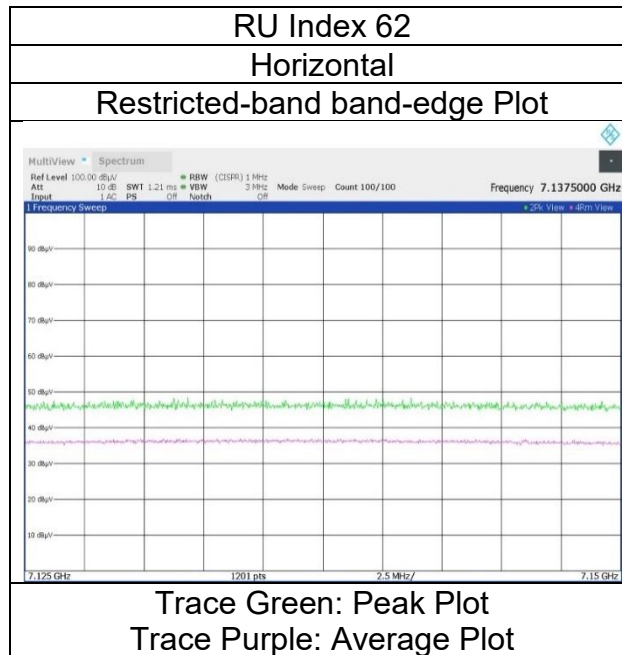
10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

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-40 (OFDMA) 242-tone RU, 7085 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 2, 2024
Temperature / Humidity	23 deg. C, 65 %RH	32 deg. C, 62 %RH
Engineer	Yuta Shiba	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 CH1: slot	

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	48.09	38.55	-25.70	-	-9.54	51.40	73.9	22.5	150	0	Floor Noise
Hori.	17895.000	PK	47.85	40.34	-21.49	-	-9.54	57.16	73.9	16.7	150	0	Floor Noise
Hori.	11930.000	AV	35.81	38.55	-25.70	-	-9.54	39.12	53.9	14.7	150	0	Floor Noise
Hori.	17895.000	AV	35.86	40.34	-21.49	-	-9.54	45.17	53.9	8.7	150	0	Floor Noise
Vert.	11930.000	PK	47.47	38.55	-25.70	-	-9.54	50.78	73.9	23.1	150	0	Floor Noise
Vert.	17895.000	PK	47.84	40.34	-21.49	-	-9.54	57.15	73.9	16.7	150	0	Floor Noise
Vert.	11930.000	AV	36.15	38.55	-25.70	-	-9.54	39.46	53.9	14.4	150	0	Floor Noise
Vert.	17895.000	AV	35.95	40.34	-21.49	-	-9.54	45.26	53.9	8.6	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 : 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	47.61	32.46	-24.99	-	0.00	2.10	57.18	-38.05	-7.0	31.0	140	341	-
Hori.	5925.000	AV	35.51	32.46	-24.99	-	0.00	2.10	45.08	-50.15	-27.0	23.1	140	341	-
Vert.	5925.000	PK	46.10	32.46	-24.99	-	0.00	2.10	55.67	-39.56	-7.0	32.5	152	338	-
Vert.	5925.000	AV	35.06	32.46	-24.99	-	0.00	2.10	44.63	-50.60	-27.0	23.6	152	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 : 20log (3.820 m / 3.0 m) = 2.10 dB

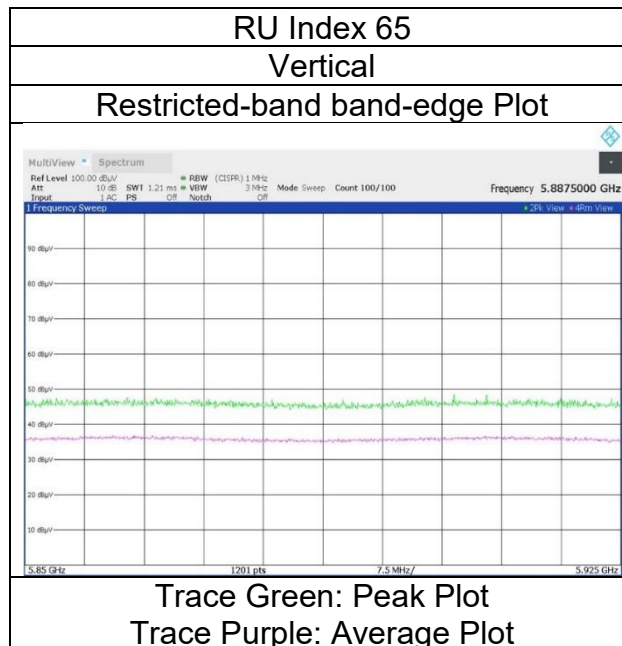
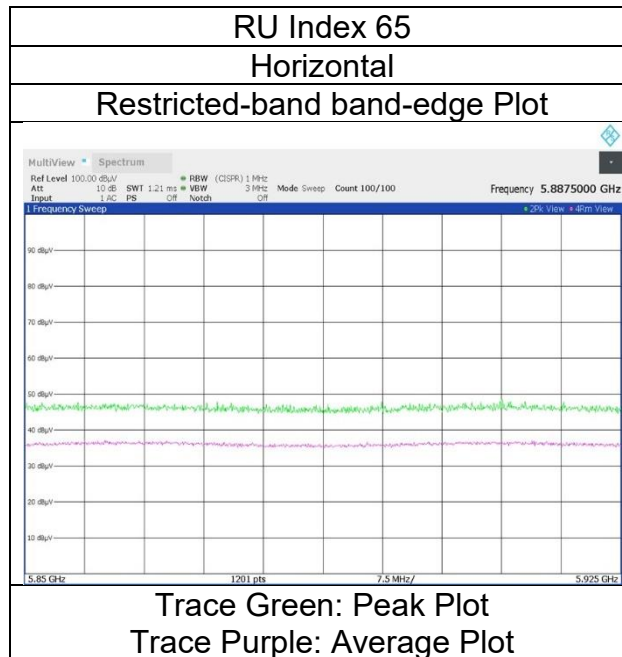
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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-40 (OFDMA) 484-tone RU, 5965 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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.83	38.61	-24.96	-	0.00	-9.54	51.94	-43.29	-7.0	36.2	150	0	Floor Noise
Hori.	12810.000	AV	35.78	38.61	-24.96	-	0.00	-9.54	39.89	-55.34	-27.0	28.3	150	0	Floor Noise
Vert.	12810.000	PK	47.52	38.61	-24.96	-	0.00	-9.54	51.63	-43.60	-7.0	36.6	150	0	Floor Noise
Vert.	12810.000	AV	35.87	38.61	-24.96	-	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.63	38.70	-24.92	-	0.00	-9.54	51.87	-43.36	-7.0	36.3	150	0	Floor Noise
Hori.	12890.000	AV	35.92	38.70	-24.92	-	0.00	-9.54	40.16	-55.07	-27.0	28.0	150	0	Floor Noise
Vert.	12890.000	PK	47.69	38.70	-24.92	-	0.00	-9.54	51.93	-43.30	-7.0	36.3	150	0	Floor Noise
Vert.	12890.000	AV	36.01	38.70	-24.92	-	0.00	-9.54	40.25	-54.98	-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]) = $10 \times \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]}^2 \right) \times 10^3$

*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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.64	38.85	-24.85	-	0.00	-9.54	52.10	-43.13	-7.0	36.1	150	0	Floor Noise
Hori.	13050.000	AV	35.96	38.85	-24.85	-	0.00	-9.54	40.42	-54.81	-27.0	27.8	150	0	Floor Noise
Vert.	13050.000	PK	47.75	38.85	-24.85	-	0.00	-9.54	52.21	-43.02	-7.0	36.0	150	0	Floor Noise
Vert.	13050.000	AV	35.85	38.85	-24.85	-	0.00	-9.54	40.31	-54.92	-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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.65	38.89	-24.81	-	0.00	-9.54	52.19	-43.04	-7.0	36.0	150	0	Floor Noise
Hori.	13130.000	AV	35.76	38.89	-24.81	-	0.00	-9.54	40.30	-54.93	-27.0	27.9	150	0	Floor Noise
Vert.	13130.000	PK	47.44	38.89	-24.81	-	0.00	-9.54	51.98	-43.25	-7.0	36.2	150	0	Floor Noise
Vert.	13130.000	AV	35.78	38.89	-24.81	-	0.00	-9.54	40.32	-54.91	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]}^2 \right) \cdot 10^3$

*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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.92	39.08	-24.68	-	0.00	-9.54	52.78	-42.45	-7.0	35.4	150	0	Floor Noise
Hori.	13690.000	AV	36.19	39.08	-24.68	-	0.00	-9.54	41.05	-54.18	-27.0	27.1	150	0	Floor Noise
Vert.	13690.000	PK	48.06	39.08	-24.68	-	0.00	-9.54	52.92	-42.31	-7.0	35.3	150	0	Floor Noise
Vert.	13690.000	AV	36.13	39.08	-24.68	-	0.00	-9.54	40.99	-54.24	-27.0	27.2	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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.52	39.09	-24.70	-	0.00	-9.54	52.37	-42.86	-7.0	35.8	150	0	Floor Noise
Hori.	13770.000	AV	35.88	39.09	-24.70	-	0.00	-9.54	40.73	-54.50	-27.0	27.5	150	0	Floor Noise
Vert.	13770.000	PK	47.77	39.09	-24.70	-	0.00	-9.54	52.62	-42.61	-7.0	35.6	150	0	Floor Noise
Vert.	13770.000	AV	35.83	39.09	-24.70	-	0.00	-9.54	40.68	-54.55	-27.0	27.5	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]) = $10 \times \text{LOG} \left((10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}}) \times 10^{-6} \right) \times \text{Distance} : 3 \text{ [m]}^2 / 30 \times 10^{-3}$

*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 27, 2024	June 2, 2024
Temperature / Humidity	23 deg. C, 65 %RH	32 deg. C, 62 %RH
Engineer	Yuta Shiba	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 CH1: slot	

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	47.63	36.14	-24.19	-	0.00	2.10	61.68	-33.55	-7.0	26.5	136	3	-
Hori.	14170.000	PK	47.73	39.07	-24.67	-	0.00	-9.54	52.59	-42.64	-7.0	35.6	150	0	Floor Noise
Hori.	7125.000	AV	35.58	36.14	-24.19	-	0.00	2.10	49.63	-45.60	-27.0	18.6	136	3	-
Hori.	14170.000	AV	36.05	39.07	-24.67	-	0.00	-9.54	40.91	-54.32	-27.0	27.3	150	0	Floor Noise
Vert.	7125.000	PK	46.30	36.14	-24.19	-	0.00	2.10	60.35	-34.88	-7.0	27.8	166	75	-
Vert.	14170.000	PK	47.85	39.07	-24.67	-	0.00	-9.54	52.71	-42.52	-7.0	35.5	150	0	Floor Noise
Vert.	7125.000	AV	35.56	36.14	-24.19	-	0.00	2.10	49.61	-45.62	-27.0	18.6	166	75	-
Vert.	14170.000	AV	36.03	39.07	-24.67	-	0.00	-9.54	40.89	-54.34	-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

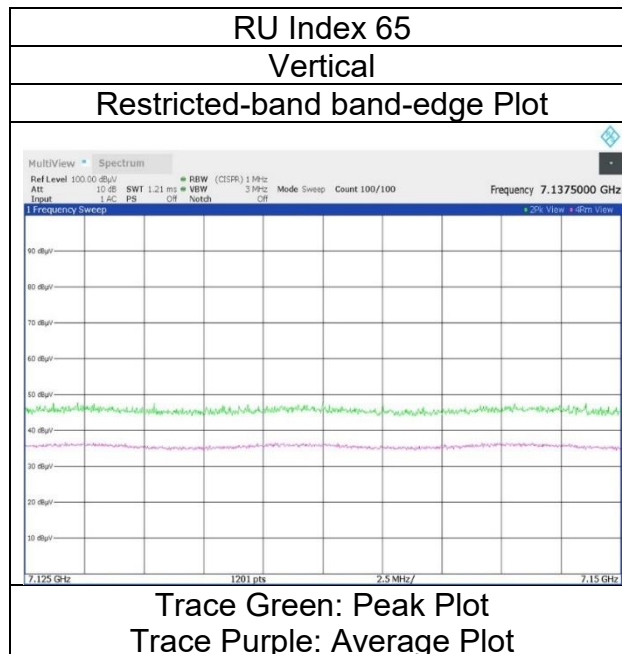
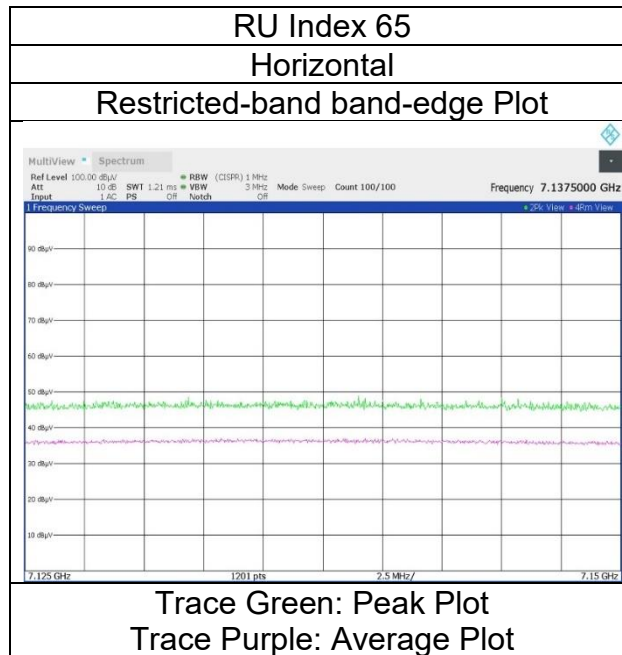
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 27, 2024
23 deg. C, 65 %RH
Yuta Shiba
(1 GHz -10 GHz)
Tx 11ax-40 (OFDMA) 484-tone RU, 7085 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 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	45.82	32.46	-24.99	-	0.00	2.10	55.39	-39.84	-7.0	32.8	148	342	-
Hori.	5925.000	AV	35.03	32.46	-24.99	-	0.00	2.10	44.60	-50.63	-27.0	23.6	148	342	-
Vert.	5925.000	PK	47.71	32.46	-24.99	-	0.00	2.10	57.28	-37.95	-7.0	30.9	151	340	-
Vert.	5925.000	AV	35.41	32.46	-24.99	-	0.00	2.10	44.98	-50.25	-27.0	23.2	151	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 : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

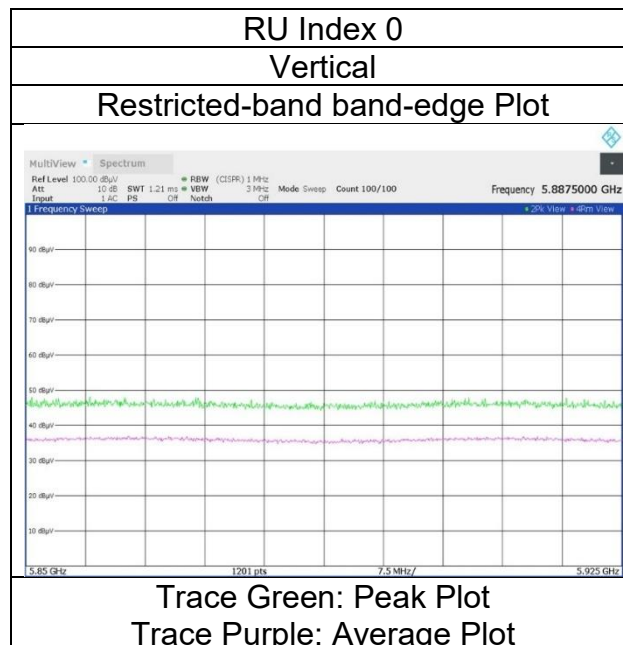
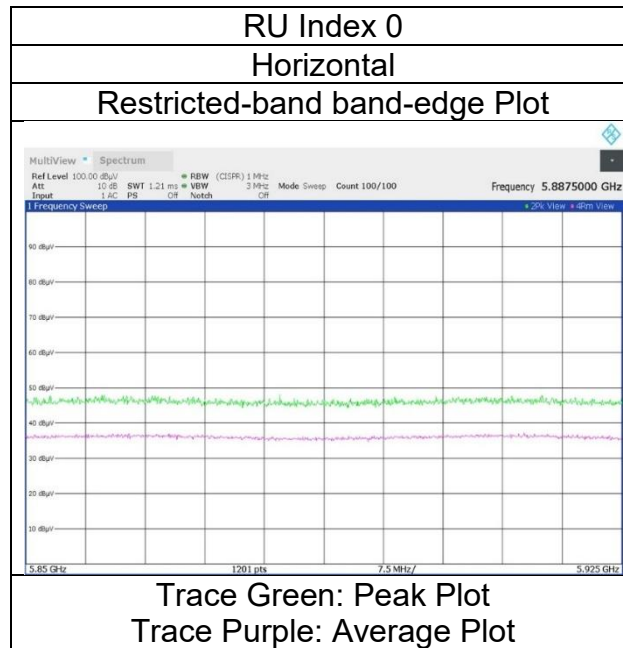
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 26-tone RU, 5985 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 CH1: slot

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	45.41	36.14	-24.19	-	0.00	2.10	59.46	-35.77	-7.0	28.7	161	355	-
Hori.	7125.000	AV	35.09	36.14	-24.19	-	0.00	2.10	49.14	-46.09	-27.0	19.0	161	355	-
Vert.	7125.000	PK	47.54	36.14	-24.19	-	0.00	2.10	61.59	-33.64	-7.0	26.6	175	189	-
Vert.	7125.000	AV	35.81	36.14	-24.19	-	0.00	2.10	49.86	-45.37	-27.0	18.3	175	189	-

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

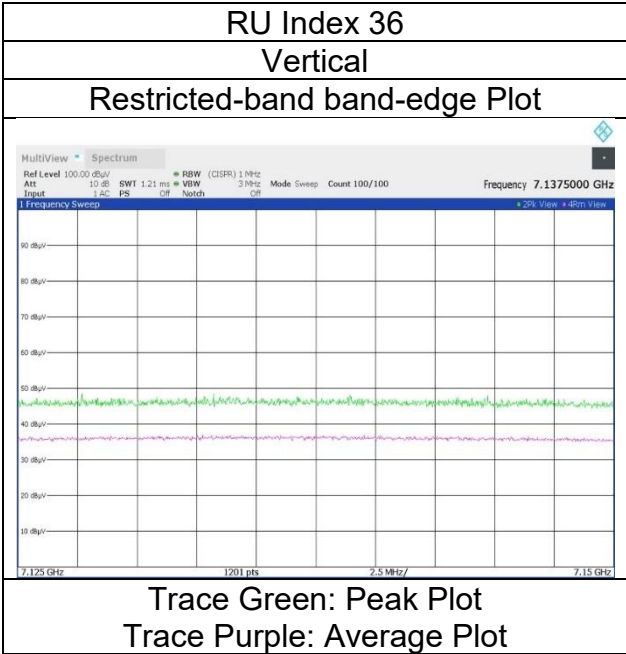
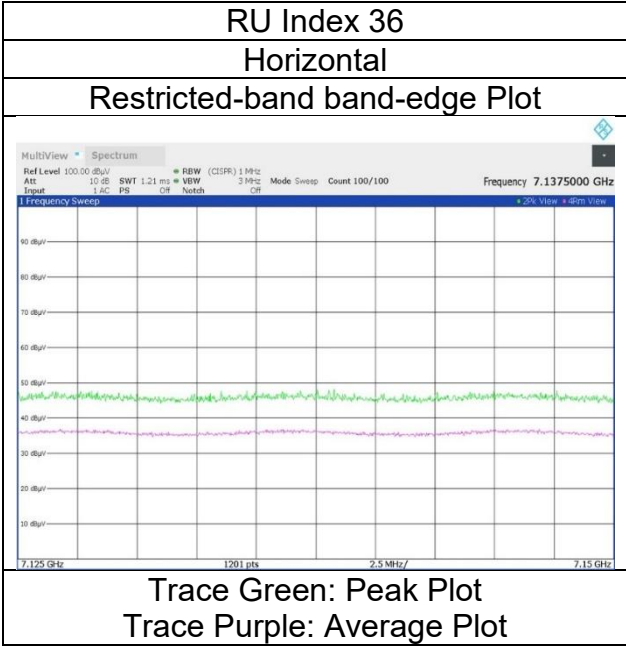
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 24, 2024
Temperature / Humidity	23 deg. C, 62 %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 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 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.	5925.000	PK	45.56	32.46	-24.99	-	0.00	2.10	55.13	-40.10	-7.0	33.1	149	342	-
Hori.	5925.000	AV	35.08	32.46	-24.99	-	0.00	2.10	44.65	-50.58	-27.0	23.5	149	342	-
Vert.	5925.000	PK	48.52	32.46	-24.99	-	0.00	2.10	58.09	-37.14	-7.0	30.1	187	330	-
Vert.	5925.000	AV	37.16	32.46	-24.99	-	0.00	2.10	46.73	-48.50	-27.0	21.5	187	330	-

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

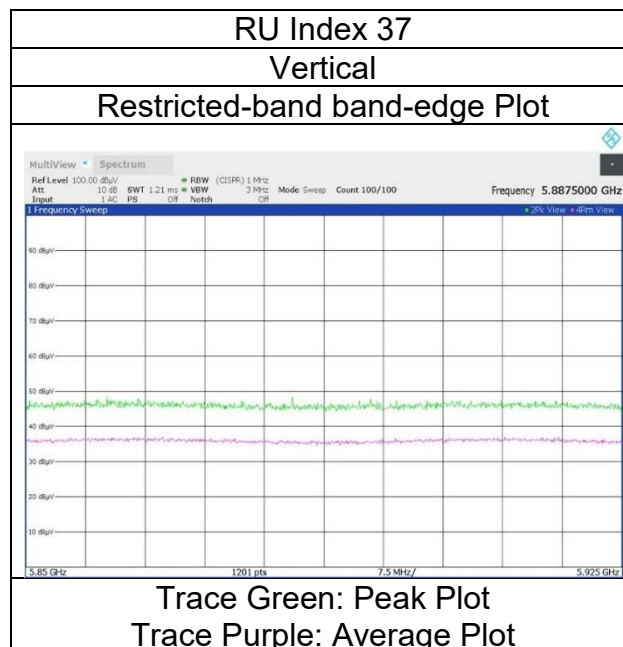
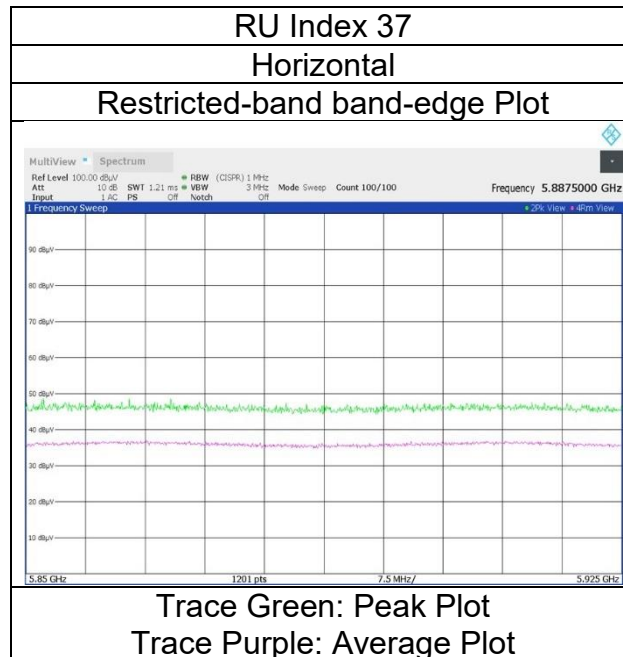
10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 52-tone RU, 5985 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 CH1: slot

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	46.31	36.14	-24.19	-	0.00	2.10	60.36	-34.87	-7.0	27.8	138	357	-
Hori.	7125.000	AV	35.53	36.14	-24.19	-	0.00	2.10	49.58	-45.65	-27.0	18.6	138	357	-
Vert.	7125.000	PK	47.34	36.14	-24.19	-	0.00	2.10	61.39	-33.84	-7.0	26.8	175	189	-
Vert.	7125.000	AV	35.68	36.14	-24.19	-	0.00	2.10	49.73	-45.50	-27.0	18.5	175	189	-

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

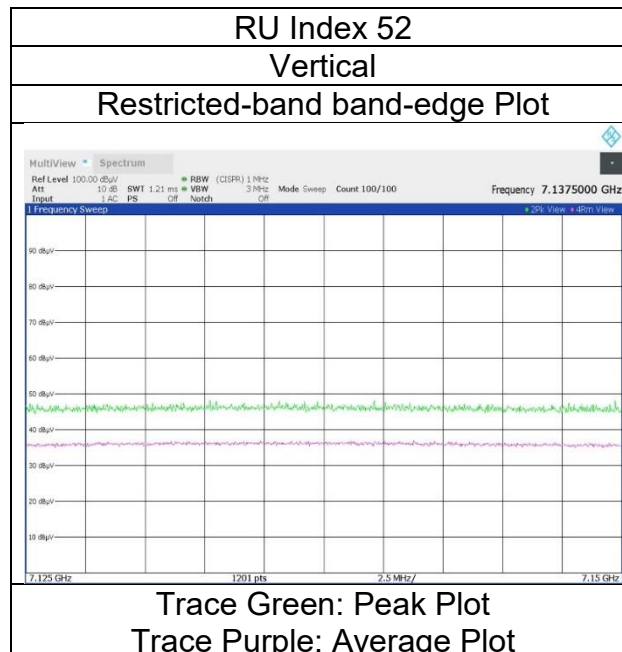
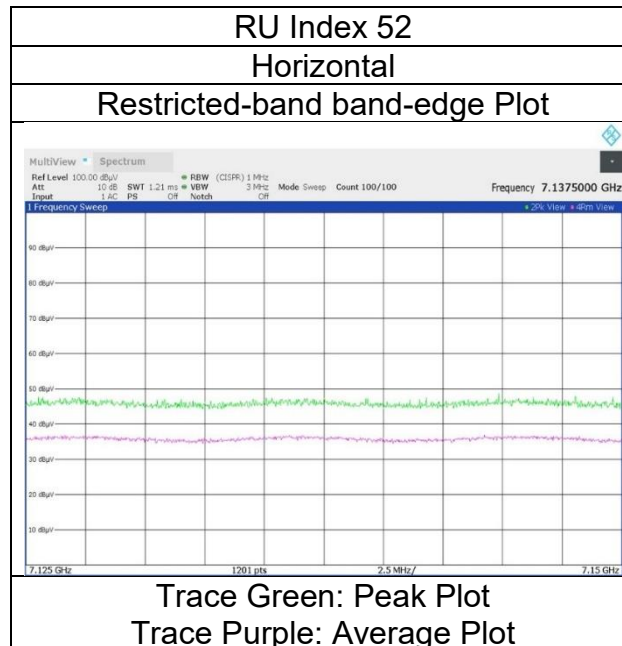
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 52-tone RU, 7025 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 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	45.48	32.46	-24.99	-	0.00	2.10	55.05	-40.18	-7.0	33.1	147	342	-
Hori.	5925.000	AV	34.71	32.46	-24.99	-	0.00	2.10	44.28	-50.95	-27.0	23.9	147	342	-
Vert.	5925.000	PK	47.52	32.46	-24.99	-	0.00	2.10	57.09	-38.14	-7.0	31.1	157	337	-
Vert.	5925.000	AV	35.50	32.46	-24.99	-	0.00	2.10	45.07	-50.16	-27.0	23.1	157	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^{\frac{2}{30}} \cdot 10^3$

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

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

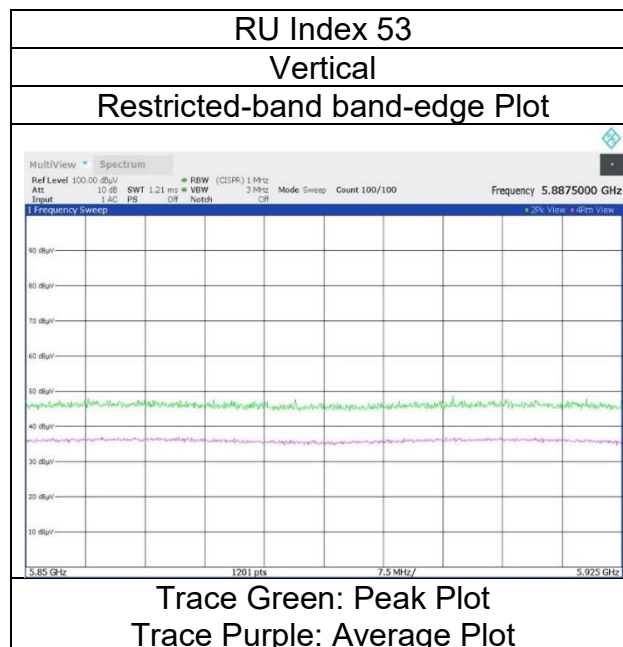
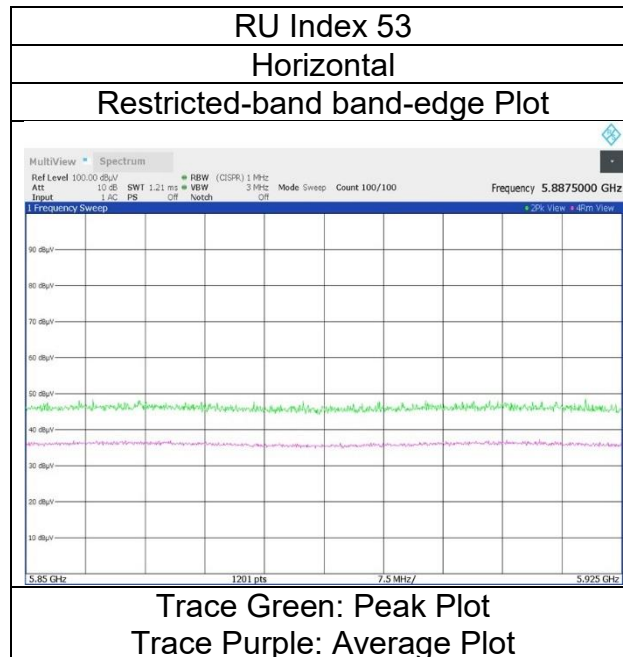
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 106-tone RU, 5985 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 CH1: slot

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	46.13	36.14	-24.19	-	0.00	2.10	60.18	-35.05	-7.0	28.0	161	357	-
Hori.	7125.000	AV	35.36	36.14	-24.19	-	0.00	2.10	49.41	-45.82	-27.0	18.8	161	357	-
Vert.	7125.000	PK	47.75	36.14	-24.19	-	0.00	2.10	61.80	-33.43	-7.0	26.4	110	5	-
Vert.	7125.000	AV	35.72	36.14	-24.19	-	0.00	2.10	49.77	-45.46	-27.0	18.4	110	5	-

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

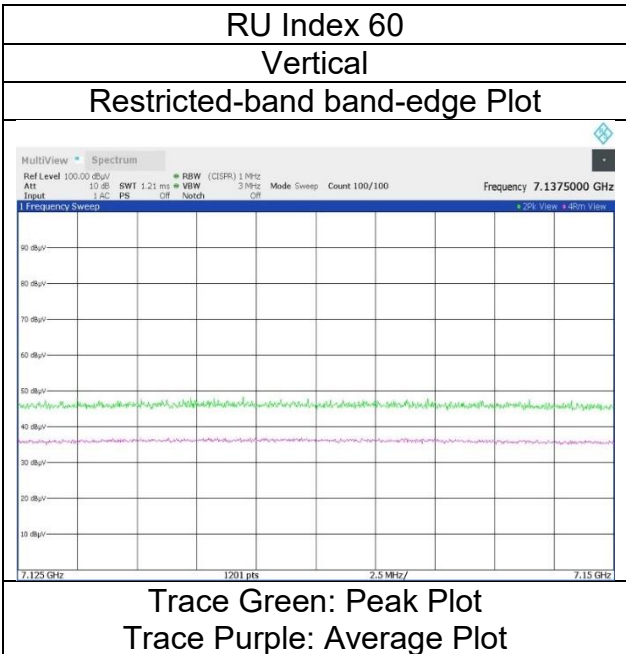
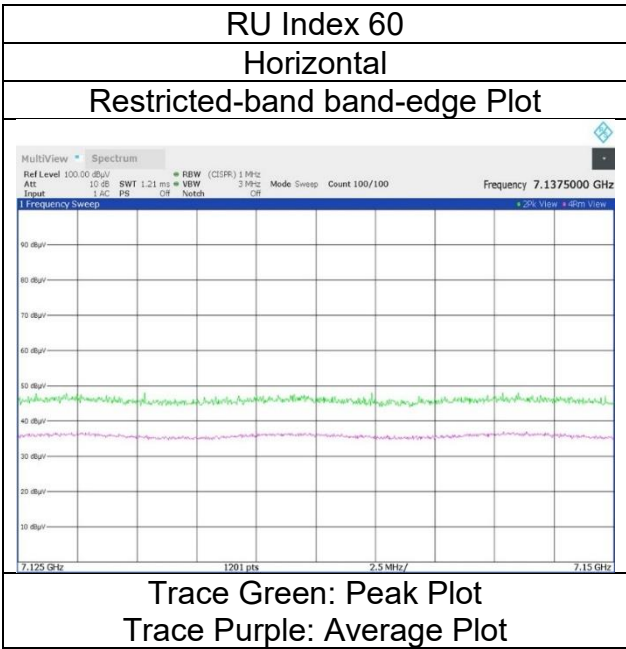
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %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 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 CH1: slot

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	46.08	32.46	-24.99	-	0.00	2.10	55.65	-39.58	-7.0	32.5	150	343	-
Hori.	5925.000	AV	35.21	32.46	-24.99	-	0.00	2.10	44.78	-50.45	-27.0	23.4	150	343	-
Vert.	5925.000	PK	47.73	32.46	-24.99	-	0.00	2.10	57.30	-37.93	-7.0	30.9	152	336	-
Vert.	5925.000	AV	35.58	32.46	-24.99	-	0.00	2.10	45.15	-50.08	-27.0	23.0	152	336	-

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

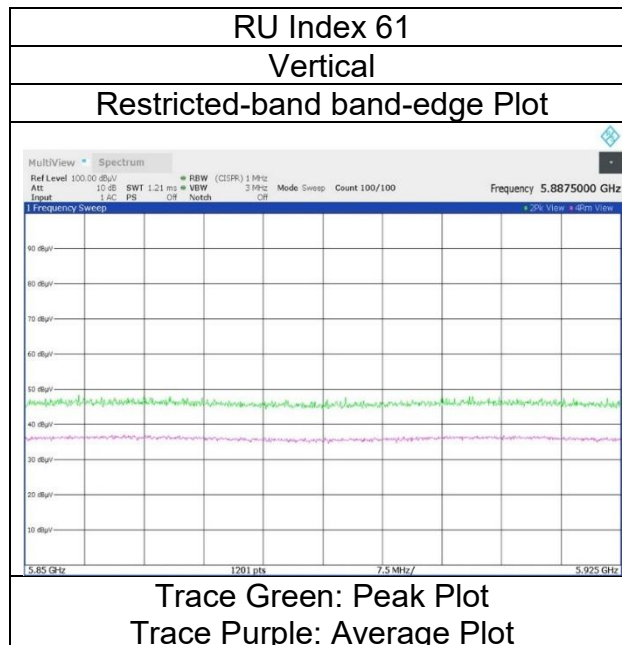
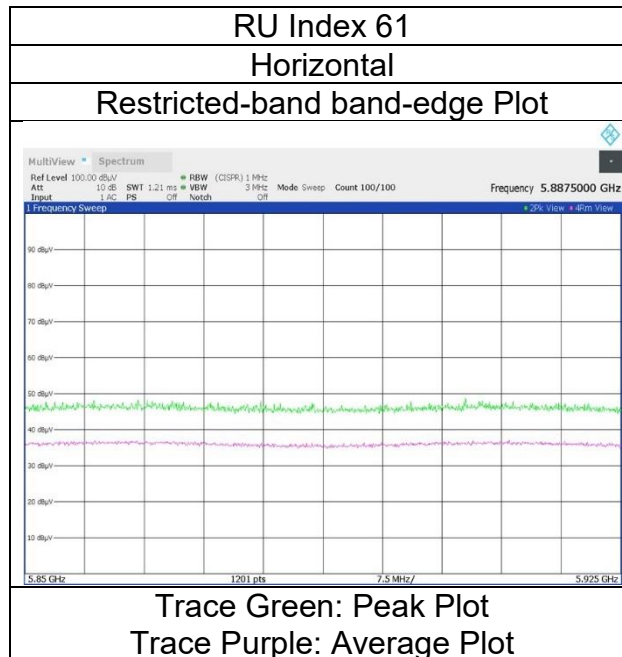
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 242-tone RU, 5985 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 24, 2024
Temperature / Humidity 23 deg. C, 62 %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 CH1: slot

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	46.05	36.14	-24.19	-	0.00	2.10	60.10	-35.13	-7.0	28.1	104	357	-
Hori.	7125.000	AV	35.60	36.14	-24.19	-	0.00	2.10	49.65	-45.58	-27.0	18.5	104	357	-
Vert.	7125.000	PK	47.76	36.14	-24.19	-	0.00	2.10	61.81	-33.42	-7.0	26.4	133	6	-
Vert.	7125.000	AV	36.07	36.14	-24.19	-	0.00	2.10	50.12	-45.11	-27.0	18.1	133	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

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

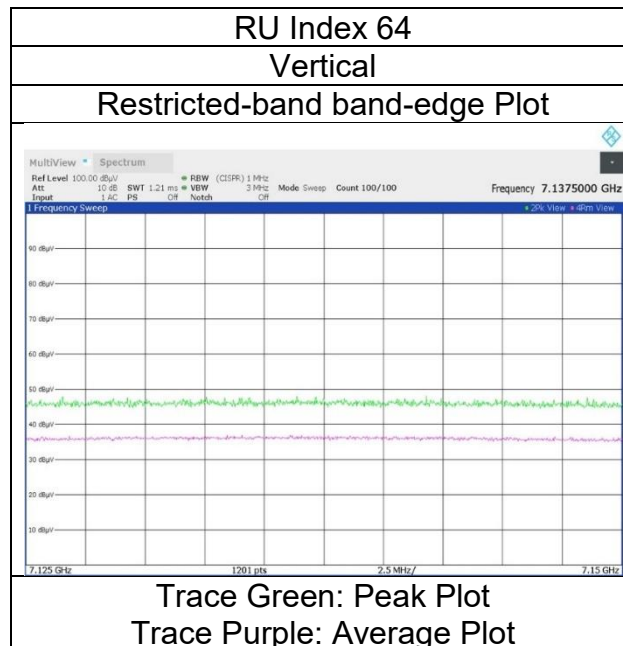
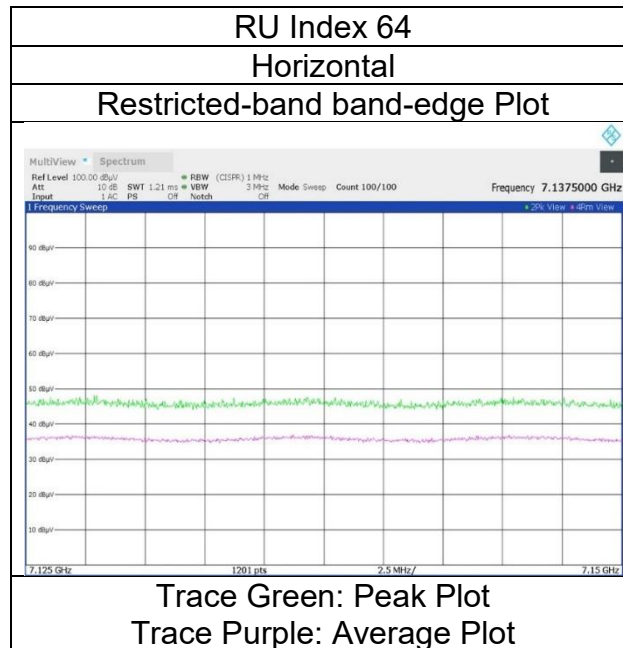
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 242-tone RU, 7025 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 24, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %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 CH1: slot

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	47.45	38.60	-25.69	-	-9.54	50.82	73.9	23.0	150	0	Floor Noise
Hori.	17955.000	PK	47.39	40.36	-21.50	-	-9.54	56.71	73.9	17.1	150	0	Floor Noise
Hori.	11970.000	AV	35.79	38.60	-25.69	-	-9.54	39.16	53.9	14.7	150	0	Floor Noise
Hori.	17955.000	AV	35.81	40.36	-21.50	-	-9.54	45.13	53.9	8.7	150	0	Floor Noise
Vert.	11970.000	PK	47.47	38.60	-25.69	-	-9.54	50.84	73.9	23.0	150	0	Floor Noise
Vert.	17955.000	PK	47.62	40.36	-21.50	-	-9.54	56.94	73.9	16.9	150	0	Floor Noise
Vert.	11970.000	AV	35.47	38.60	-25.69	-	-9.54	38.84	53.9	15.0	150	0	Floor Noise
Vert.	17955.000	AV	35.82	40.36	-21.50	-	-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	46.22	32.46	-24.99	-	0.00	2.10	55.79	-39.44	-7.0	32.4	149	343	-
Hori.	5925.000	AV	35.20	32.46	-24.99	-	0.00	2.10	44.77	-50.46	-27.0	23.4	149	343	-
Vert.	5925.000	PK	47.21	32.46	-24.99	-	0.00	2.10	56.78	-38.45	-7.0	31.4	158	337	-
Vert.	5925.000	AV	35.52	32.46	-24.99	-	0.00	2.10	45.09	-50.14	-27.0	23.1	158	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

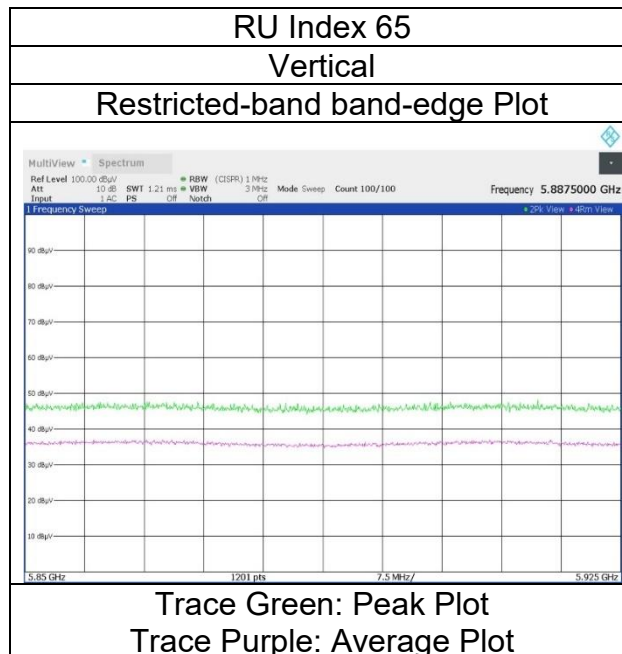
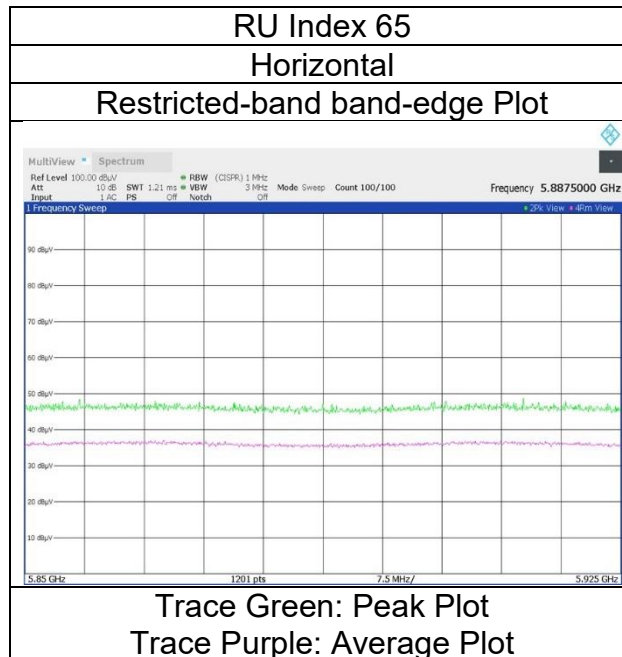
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 484-tone RU, 5985 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 2, 2024
Temperature / Humidity	23 deg. C, 64 %RH	23 deg. C, 62 %RH
Engineer	Yusuke Tanikawara	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 CH1: slot	

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	47.84	38.53	-24.97	-	0.00	-9.54	51.86	-43.37	-7.0	36.3	150	0	Floor Noise
Hori.	12770.000	AV	35.75	38.53	-24.97	-	0.00	-9.54	39.77	-55.46	-27.0	28.4	150	0	Floor Noise
Vert.	12770.000	PK	48.00	38.53	-24.97	-	0.00	-9.54	52.02	-43.21	-7.0	36.2	150	0	Floor Noise
Vert.	12770.000	AV	35.76	38.53	-24.97	-	0.00	-9.54	39.78	-55.45	-27.0	28.4	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 * 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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	48.31	38.76	-24.91	-	0.00	-9.54	52.62	-42.61	-7.0	35.6	150	0	Floor Noise	
Hori.	12930.000	AV	35.96	38.76	-24.91	-	0.00	-9.54	40.27	-54.96	-27.0	27.9	150	0	Floor Noise	
Vert.	12930.000	PK	48.15	38.76	-24.91	-	0.00	-9.54	52.46	-42.77	-7.0	35.7	150	0	Floor Noise	
Vert.	12930.000	AV	36.19	38.76	-24.91	-	0.00	-9.54	40.50	-54.73	-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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	48.04	38.76	-24.91	-	0.00	-9.54	52.35	-42.88	-7.0	35.8	150	0	Floor Noise
Hori.	12930.000	AV	36.37	38.76	-24.91	-	0.00	-9.54	40.68	-54.55	-27.0	27.5	150	0	Floor Noise
Vert.	12930.000	PK	47.83	38.76	-24.91	-	0.00	-9.54	52.14	-43.09	-7.0	36.0	150	0	Floor Noise
Vert.	12930.000	AV	35.92	38.76	-24.91	-	0.00	-9.54	40.23	-55.00	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.35	38.86	-24.82	-	0.00	-9.54	51.85	-43.38	-7.0	36.3	150	0	Floor Noise
Hori.	13090.000	AV	35.92	38.86	-24.82	-	0.00	-9.54	40.42	-54.81	-27.0	27.8	150	0	Floor Noise
Vert.	13090.000	PK	47.46	38.86	-24.82	-	0.00	-9.54	51.96	-43.27	-7.0	36.2	150	0	Floor Noise
Vert.	13090.000	AV	36.01	38.86	-24.82	-	0.00	-9.54	40.51	-54.72	-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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.78	39.07	-24.70	-	0.00	-9.54	52.61	-42.62	-7.0	35.6	150	0	Floor Noise
Hori.	13730.000	AV	35.92	39.07	-24.70	-	0.00	-9.54	40.75	-54.48	-27.0	27.4	150	0	Floor Noise
Vert.	13730.000	PK	48.20	39.07	-24.70	-	0.00	-9.54	53.03	-42.20	-7.0	35.2	150	0	Floor Noise
Vert.	13730.000	AV	35.77	39.07	-24.70	-	0.00	-9.54	40.60	-54.63	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.99	39.08	-24.74	-	0.00	-9.54	52.79	-42.44	-7.0	35.4	150	0	Floor Noise
Hori.	13890.000	AV	35.83	39.08	-24.74	-	0.00	-9.54	40.63	-54.60	-27.0	27.6	150	0	Floor Noise
Vert.	13890.000	PK	47.63	39.08	-24.74	-	0.00	-9.54	52.43	-42.80	-7.0	35.8	150	0	Floor Noise
Vert.	13890.000	AV	35.80	39.08	-24.74	-	0.00	-9.54	40.60	-54.63	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 24, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %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 CH1: slot

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	46.95	35.91	-23.77	-	0.00	2.10	61.19	-34.04	-7.0	27.0	113	337	-	
Hori.	14050.000	PK	48.40	39.04	-24.76	-	0.00	-9.54	53.14	-42.09	-7.0	35.0	150	0	-	Floor Noise
Hori.	7125.000	AV	35.46	35.91	-23.77	-	0.00	2.10	49.70	-45.53	-27.0	18.5	113	337	-	
Hori.	14050.000	AV	36.10	39.04	-24.76	-	0.00	-9.54	40.84	-54.39	-27.0	27.3	150	0	-	Floor Noise
Vert.	7125.000	PK	46.80	35.91	-23.77	-	0.00	2.10	61.04	-34.19	-7.0	27.1	151	86	-	
Vert.	14050.000	PK	48.00	39.04	-24.76	-	0.00	-9.54	52.74	-42.49	-7.0	35.4	150	0	-	Floor Noise
Vert.	7125.000	AV	35.45	35.91	-23.77	-	0.00	2.10	49.69	-45.54	-27.0	18.5	151	86	-	
Vert.	14050.000	AV	35.95	39.04	-24.76	-	0.00	-9.54	40.69	-54.54	-27.0	27.5	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)

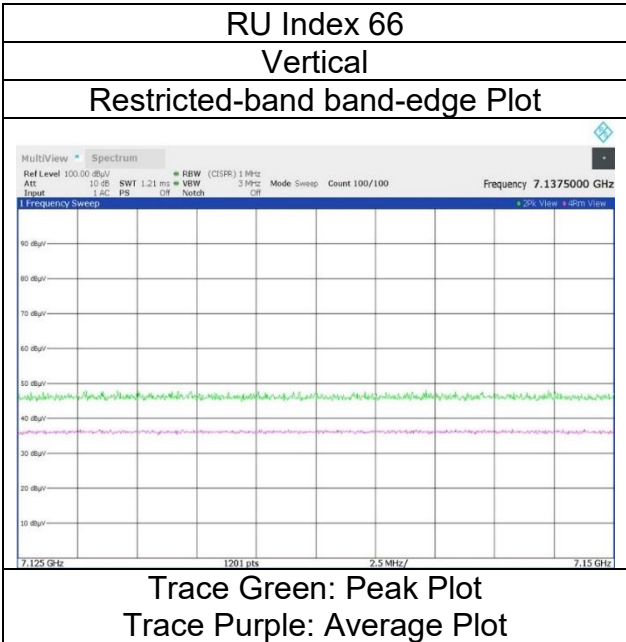
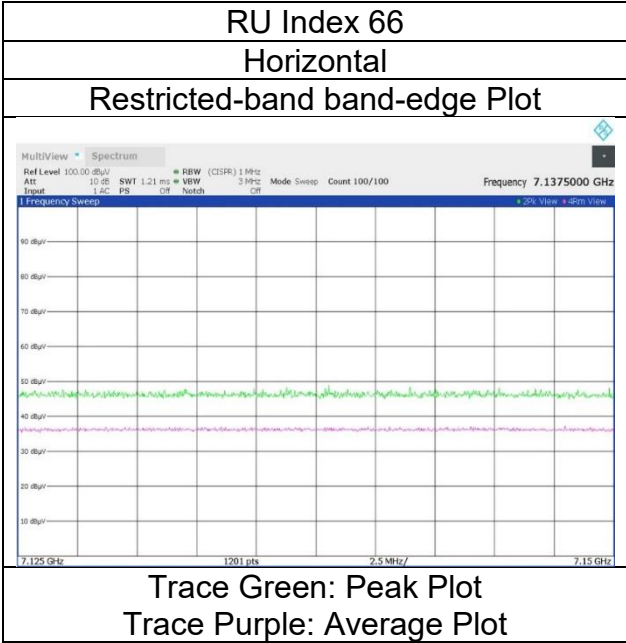
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 62 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 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 June 2, 2024
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %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 CH1: slot

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	47.62	38.60	-25.69	-	-9.54	50.99	73.9	22.9	150	0	Floor Noise
Hori.	17955.000	PK	47.40	40.36	-21.50	-	-9.54	56.72	73.9	17.1	150	0	Floor Noise
Hori.	11970.000	AV	35.81	38.60	-25.69	-	-9.54	39.18	53.9	14.7	150	0	Floor Noise
Hori.	17955.000	AV	35.62	40.36	-21.50	-	-9.54	44.94	53.9	8.9	150	0	Floor Noise
Vert.	11970.000	PK	47.84	38.60	-25.69	-	-9.54	51.21	73.9	22.6	150	0	Floor Noise
Vert.	17955.000	PK	47.48	40.36	-21.50	-	-9.54	56.80	73.9	17.1	150	0	Floor Noise
Vert.	11970.000	AV	35.98	38.60	-25.69	-	-9.54	39.35	53.9	14.5	150	0	Floor Noise
Vert.	17955.000	AV	35.71	40.36	-21.50	-	-9.54	45.03	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	47.14	32.46	-24.99	-	0.00	2.10	56.71	-38.52	-7.0	31.5	161	342	-
Hori.	5925.000	AV	35.35	32.46	-24.99	-	0.00	2.10	44.92	-50.31	-27.0	23.3	161	342	-
Vert.	5925.000	PK	47.91	32.46	-24.99	-	0.00	2.10	57.48	-37.75	-7.0	30.7	164	339	-
Vert.	5925.000	AV	35.65	32.46	-24.99	-	0.00	2.10	45.22	-50.01	-27.0	23.0	164	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 : 20log (3.820 m / 3.0 m) = 2.10 dB

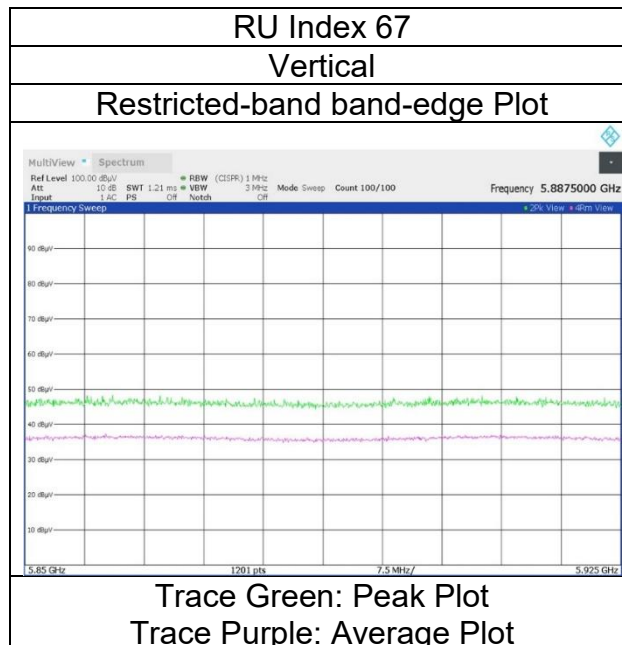
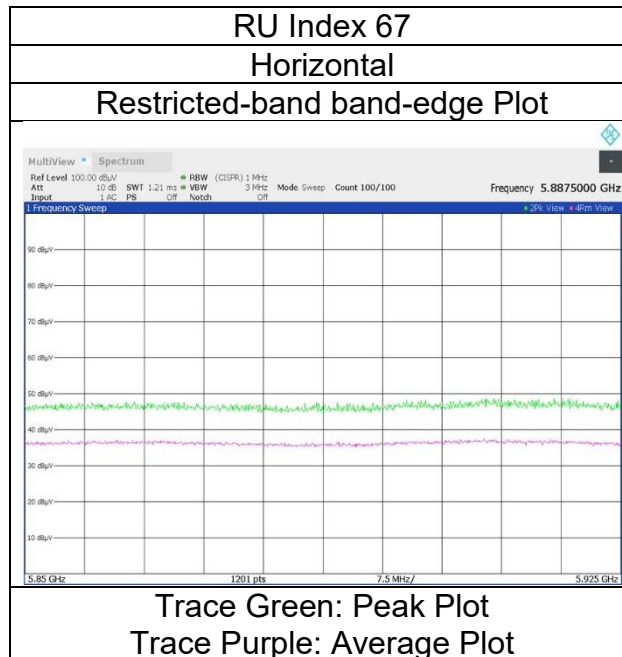
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 62 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-80 (OFDMA) 996-tone RU, 5985 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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.44	38.53	-24.97	-	0.00	-9.54	51.46	-43.77	-7.0	36.7	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	47.29	38.53	-24.97	-	0.00	-9.54	51.31	-43.92	-7.0	36.9	150	0	Floor Noise
Vert.	12770.000	AV	35.81	38.53	-24.97	-	0.00	-9.54	39.83	-55.40	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.89	38.76	-24.91	-	0.00	-9.54	52.20	-43.03	-7.0	36.0	150	0	Floor Noise
Hori.	12930.000	AV	36.14	38.76	-24.91	-	0.00	-9.54	40.45	-54.78	-27.0	27.7	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	36.01	38.76	-24.91	-	0.00	-9.54	40.32	-54.91	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	48.38	38.86	-24.82	-	0.00	-9.54	52.88	-42.35	-7.0	35.3	150	0	Floor Noise
Hori.	13090.000	AV	35.89	38.86	-24.82	-	0.00	-9.54	40.39	-54.84	-27.0	27.8	150	0	Floor Noise
Vert.	13090.000	PK	47.60	38.86	-24.82	-	0.00	-9.54	52.10	-43.13	-7.0	36.1	150	0	Floor Noise
Vert.	13090.000	AV	35.84	38.86	-24.82	-	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]) = $10 \times \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

*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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.80	39.07	-24.70	-	0.00	-9.54	52.63	-42.60	-7.0	35.6	150	0	Floor Noise	
Hori.	13730.000	AV	35.89	39.07	-24.70	-	0.00	-9.54	40.72	-54.51	-27.0	27.5	150	0	Floor Noise	
Vert.	13730.000	PK	47.77	39.07	-24.70	-	0.00	-9.54	52.60	-42.63	-7.0	35.6	150	0	Floor Noise	
Vert.	13730.000	AV	35.66	39.07	-24.70	-	0.00	-9.54	40.49	-54.74	-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 13, 2024 June 2, 2024
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH
Engineer Yusuke Tanikawara 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 CH1: slot

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	47.92	39.08	-24.74	-	0.00	-9.54	52.72	-42.51	-7.0	35.5	150	0	Floor Noise
Hori.	13890.000	AV	36.21	39.08	-24.74	-	0.00	-9.54	41.01	-54.22	-27.0	27.2	150	0	Floor Noise
Vert.	13890.000	PK	47.98	39.08	-24.74	-	0.00	-9.54	52.78	-42.45	-7.0	35.4	150	0	Floor Noise
Vert.	13890.000	AV	36.11	39.08	-24.74	-	0.00	-9.54	40.91	-54.32	-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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

*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 24, 2024	June 2, 2024
Temperature / Humidity	23 deg. C, 65 %RH	23 deg. C, 62 %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 CH1: slot	

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	46.44	36.14	-24.19	-	0.00	2.10	60.49	-34.74	-7.0	27.7	155	357	-	
Hori.	14050.000	PK	47.71	39.04	-24.76	-	0.00	-9.54	52.45	-42.78	-7.0	35.7	150	0	-	Floor Noise
Hori.	7125.000	AV	35.15	36.14	-24.19	-	0.00	2.10	49.20	-46.03	-27.0	19.0	155	357	-	
Hori.	14050.000	AV	35.98	39.04	-24.76	-	0.00	-9.54	40.72	-54.51	-27.0	27.5	150	0	-	Floor Noise
Vert.	7125.000	PK	47.60	36.14	-24.19	-	0.00	2.10	61.65	-33.58	-7.0	26.5	102	189	-	
Vert.	14050.000	PK	47.74	39.04	-24.76	-	0.00	-9.54	52.48	-42.75	-7.0	35.7	150	0	-	Floor Noise
Vert.	7125.000	AV	35.66	36.14	-24.19	-	0.00	2.10	49.71	-45.52	-27.0	18.5	102	189	-	
Vert.	14050.000	AV	35.97	39.04	-24.76	-	0.00	-9.54	40.71	-54.52	-27.0	27.5	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

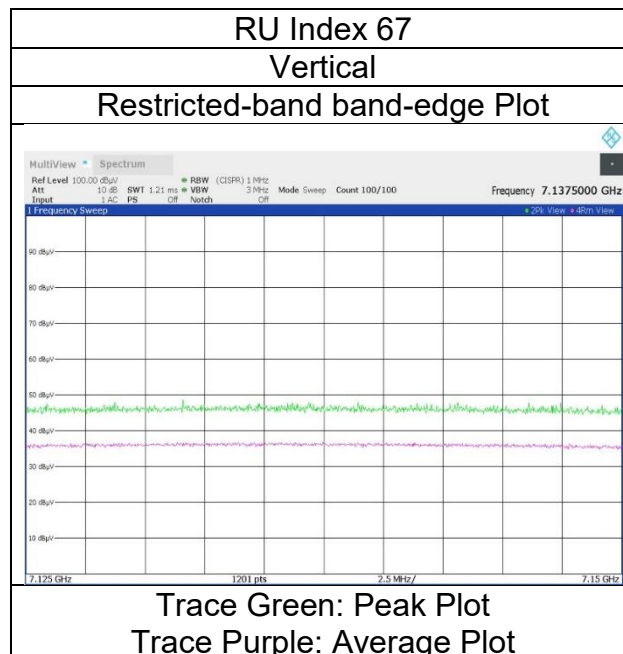
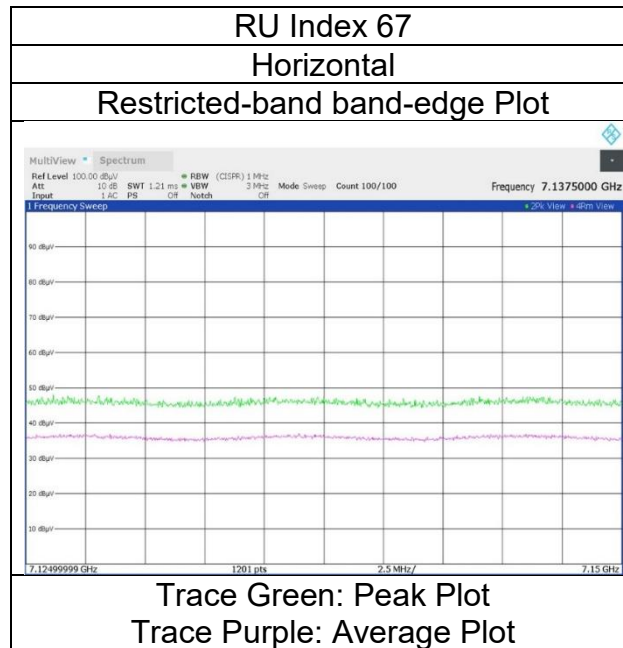
Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C, 65 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)

Mode
Antenna type

Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz (CDD)
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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	44.92	32.46	-24.99	-	0.00	2.10	54.49	-40.74	-7.0	33.7	150	341	-
Hori.	5925.000	AV	34.92	32.46	-24.99	-	0.00	2.10	44.49	-50.74	-27.0	23.7	150	341	-
Vert.	5925.000	PK	47.36	32.46	-24.99	-	0.00	2.10	56.93	-38.30	-7.0	31.3	152	339	-
Vert.	5925.000	AV	35.72	32.46	-24.99	-	0.00	2.10	45.29	-49.94	-27.0	22.9	152	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \cdot 10^3$

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

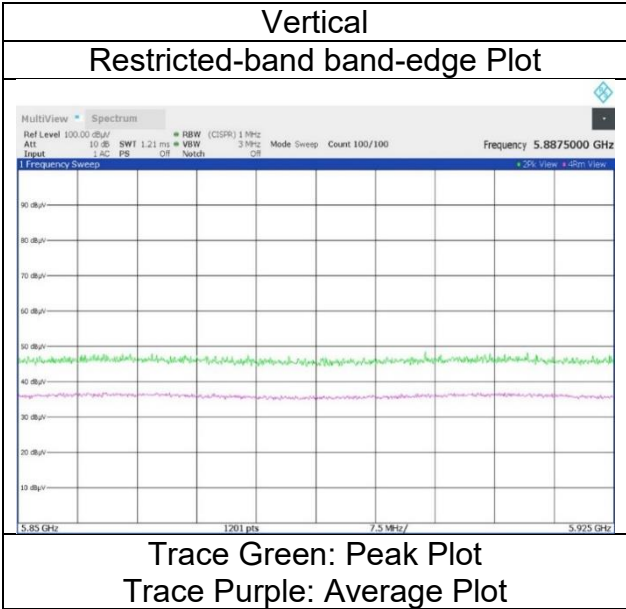
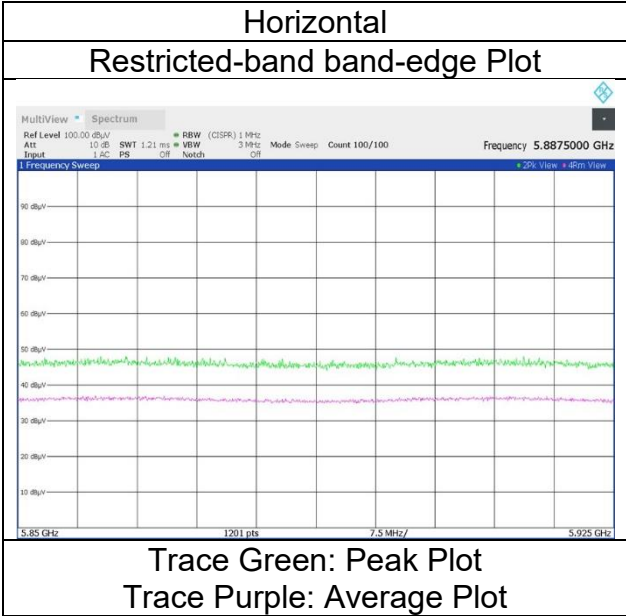
Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
May 24, 2024
23 deg. C,65 %RH
Yohsuke Matsuzawa
(1 GHz -10 GHz)
Tx 11ax-160 (OFDMA) 26-tone RU, 6025 MHz (CDD)
5G CH0: monopole , 5G CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.71	36.14	-24.19	-	0.00	2.10	59.76	-35.47	-7.0	28.4	140	356	-
Hori.	7125.000	AV	35.51	36.14	-24.19	-	0.00	2.10	49.56	-45.67	-27.0	18.6	140	356	-
Vert.	7125.000	PK	47.57	36.14	-24.19	-	0.00	2.10	61.62	-33.61	-7.0	26.6	159	190	-
Vert.	7125.000	AV	35.60	36.14	-24.19	-	0.00	2.10	49.65	-45.58	-27.0	18.5	159	190	-

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).

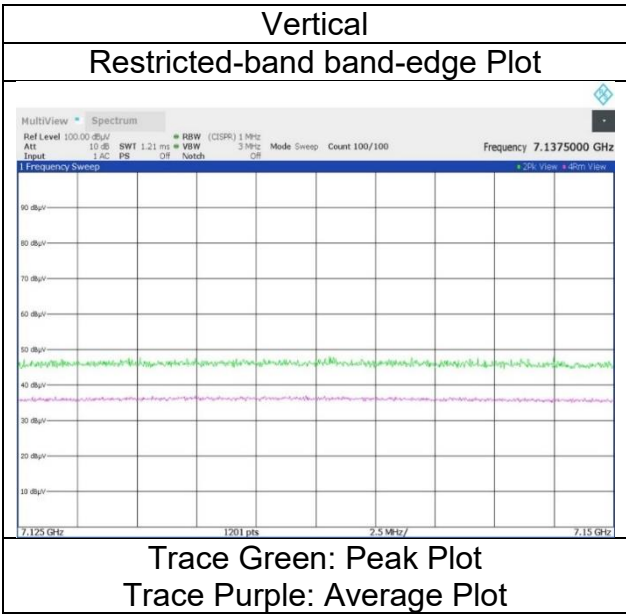
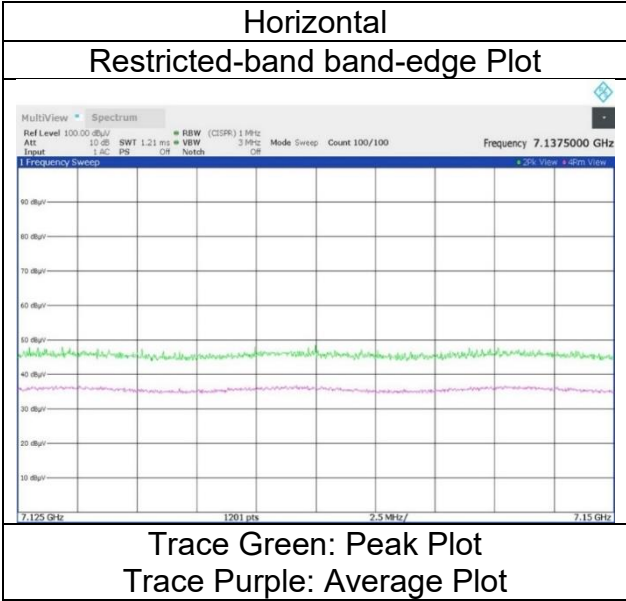
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.21	32.46	-24.99	-	0.00	2.10	54.78	-40.45	-7.0	33.4	149	341	-
Hori.	5925.000	AV	35.17	32.46	-24.99	-	0.00	2.10	44.74	-50.49	-27.0	23.4	149	341	-
Vert.	5925.000	PK	47.46	32.46	-24.99	-	0.00	2.10	57.03	-38.20	-7.0	31.2	178	340	-
Vert.	5925.000	AV	35.66	32.46	-24.99	-	0.00	2.10	45.23	-50.00	-27.0	23.0	178	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).

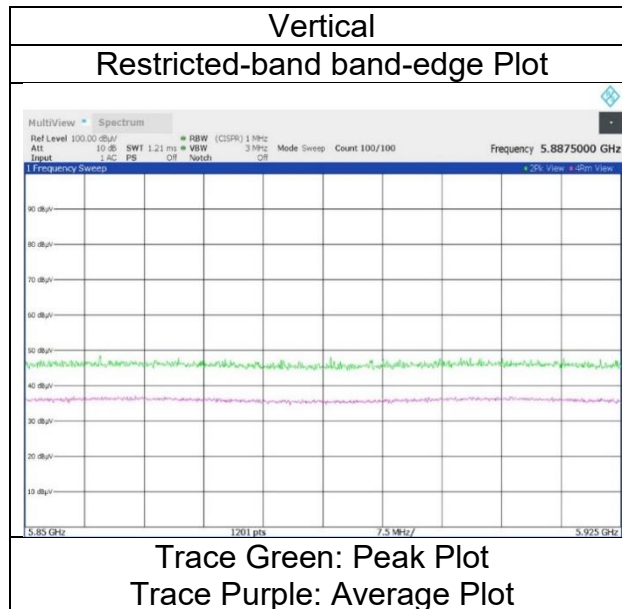
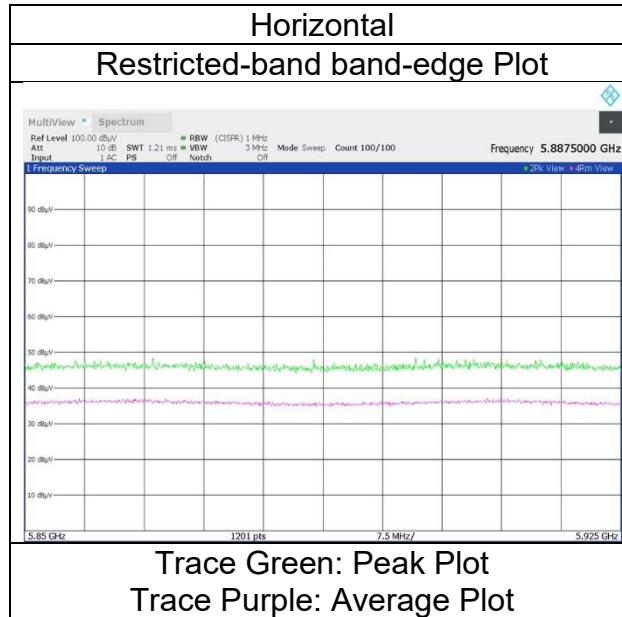
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.22	36.14	-24.19	-	0.00	2.10	59.27	-35.96	-7.0	28.9	140	356	-
Hori.	7125.000	AV	34.73	36.14	-24.19	-	0.00	2.10	48.78	-46.45	-27.0	19.4	140	356	-
Vert.	7125.000	PK	48.14	36.14	-24.19	-	0.00	2.10	62.19	-33.04	-7.0	26.0	100	189	-
Vert.	7125.000	AV	35.92	36.14	-24.19	-	0.00	2.10	49.97	-45.26	-27.0	18.2	100	189	-

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).

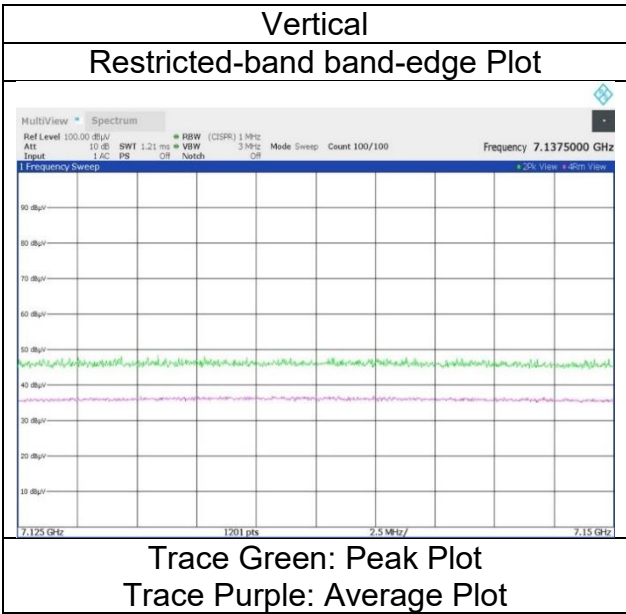
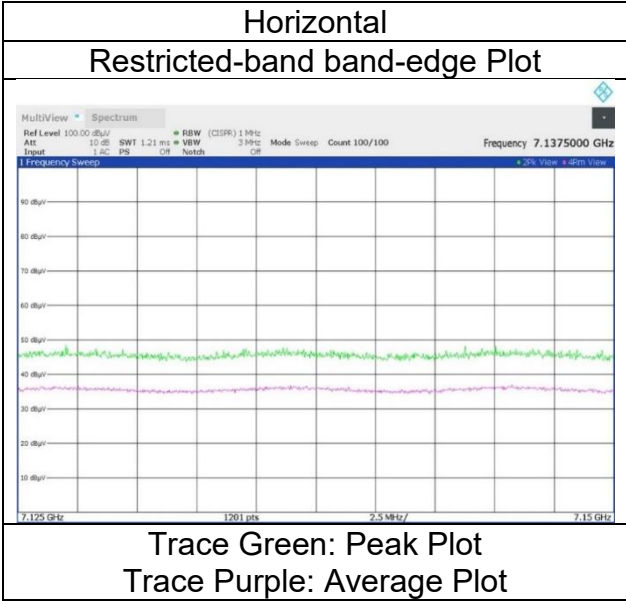
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.42	32.46	-24.99	-	0.00	2.10	54.99	-40.24	-7.0	33.2	150	341	-
Hori.	5925.000	AV	34.70	32.46	-24.99	-	0.25	2.10	44.52	-50.71	-27.0	23.7	150	341	-
Vert.	5925.000	PK	47.54	32.46	-24.99	-	0.00	2.10	57.11	-38.12	-7.0	31.1	162	336	-
Vert.	5925.000	AV	35.56	32.46	-24.99	-	0.25	2.10	45.38	-49.85	-27.0	22.8	162	336	-

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).

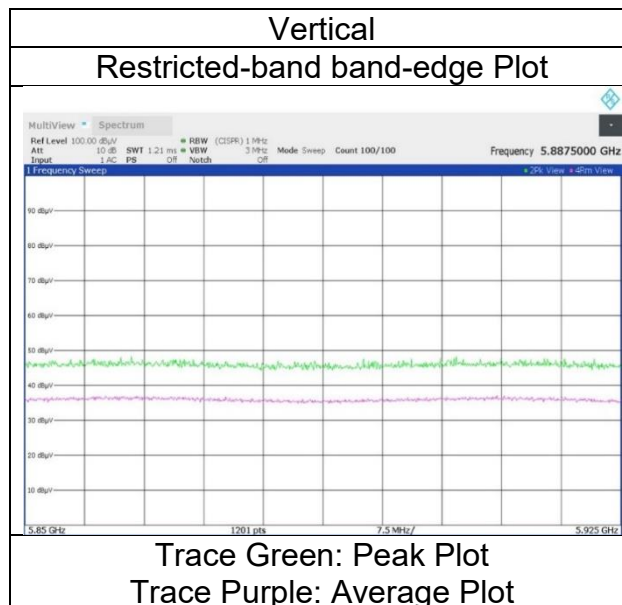
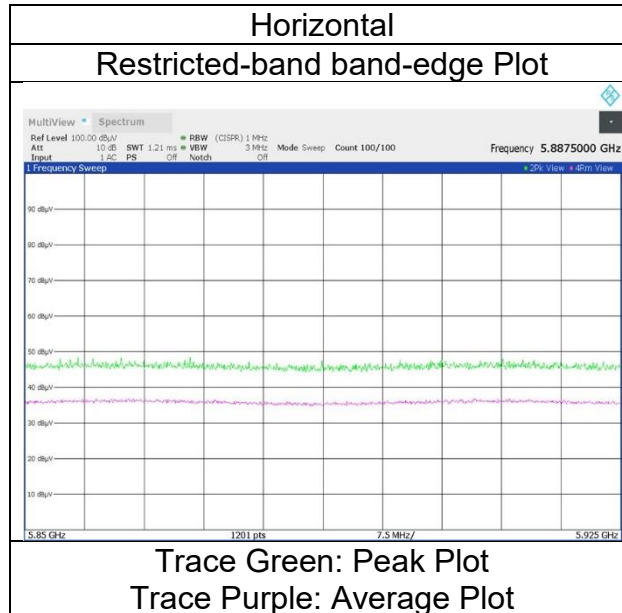
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.78	36.14	-24.19	-	0.00	2.10	59.83	-35.40	-7.0	28.4	100	358	-
Hori.	7125.000	AV	34.93	36.14	-24.19	-	0.25	2.10	49.23	-46.00	-27.0	19.0	100	358	-
Vert.	7125.000	PK	47.49	36.14	-24.19	-	0.00	2.10	61.54	-33.69	-7.0	26.6	174	197	-
Vert.	7125.000	AV	35.74	36.14	-24.19	-	0.25	2.10	50.04	-45.19	-27.0	18.1	174	197	-

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).

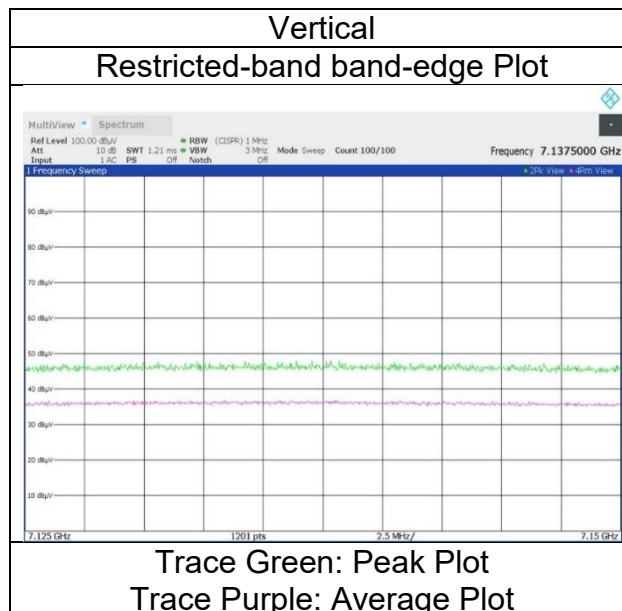
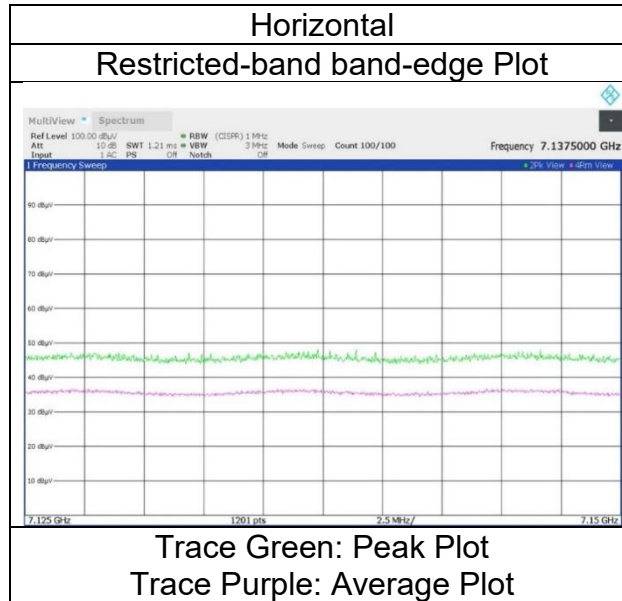
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.45	32.46	-24.99	-	0.00	2.10	55.02	-40.21	-7.0	33.2	150	344	-
Hori.	5925.000	AV	35.18	32.46	-24.99	-	0.00	2.10	44.75	-50.48	-27.0	23.4	150	344	-
Vert.	5925.000	PK	48.16	32.46	-24.99	-	0.00	2.10	57.73	-37.50	-7.0	30.5	151	338	-
Vert.	5925.000	AV	35.47	32.46	-24.99	-	0.00	2.10	45.04	-50.19	-27.0	23.1	151	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right) \cdot 10^3$

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

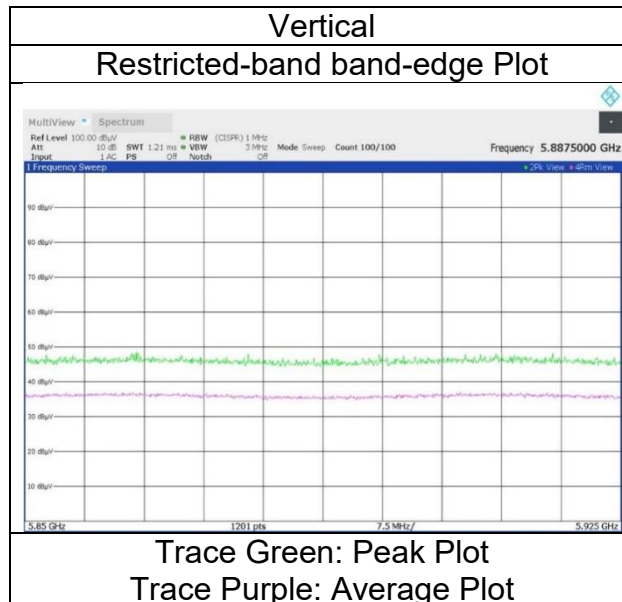
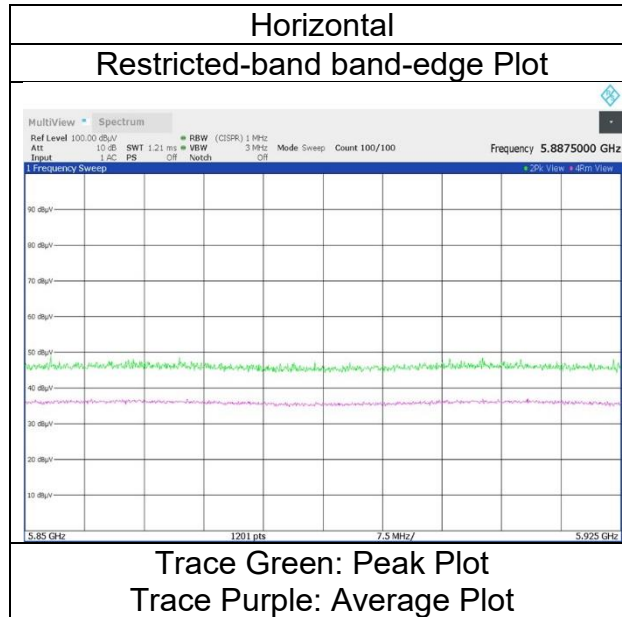
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.55	36.14	-24.19	-	0.00	2.10	59.60	-35.63	-7.0	28.6	151	358	-
Hori.	7125.000	AV	35.09	36.14	-24.19	-	0.00	2.10	49.14	-46.09	-27.0	19.0	151	358	-
Vert.	7125.000	PK	47.41	36.14	-24.19	-	0.00	2.10	61.46	-33.77	-7.0	26.7	152	8	-
Vert.	7125.000	AV	35.94	36.14	-24.19	-	0.00	2.10	49.99	-45.24	-27.0	18.2	152	8	-

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).

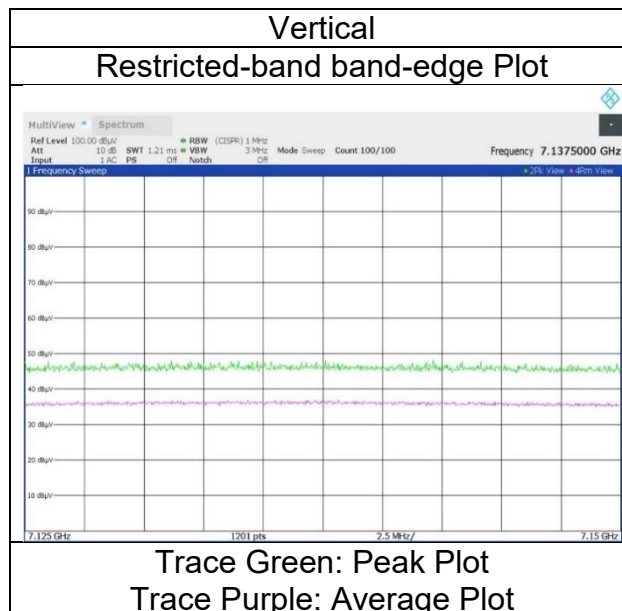
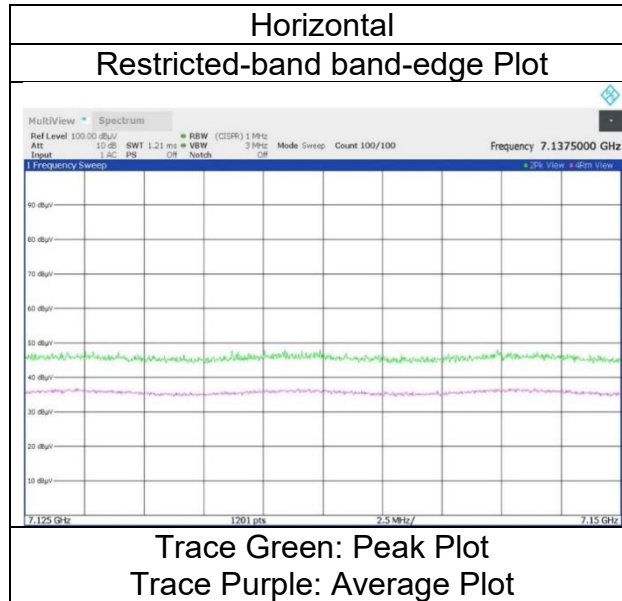
Distance factor : 1 GHz - 10 GHz : $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	45.01	32.46	-24.99	-	0.00	2.10	54.58	-40.65	-7.0	33.6	150	342	-
Hori.	5925.000	AV	34.65	32.46	-24.99	-	0.00	2.10	44.22	-51.01	-27.0	24.0	150	342	-
Vert.	5925.000	PK	47.29	32.46	-24.99	-	0.00	2.10	56.86	-38.37	-7.0	31.3	170	340	-
Vert.	5925.000	AV	35.71	32.46	-24.99	-	0.00	2.10	45.28	-49.95	-27.0	22.9	170	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]) = $10 \cdot \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right) \cdot 10^3$

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

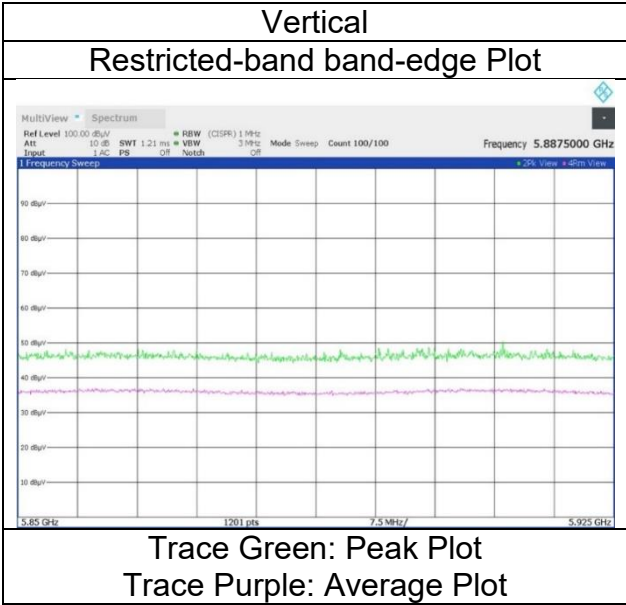
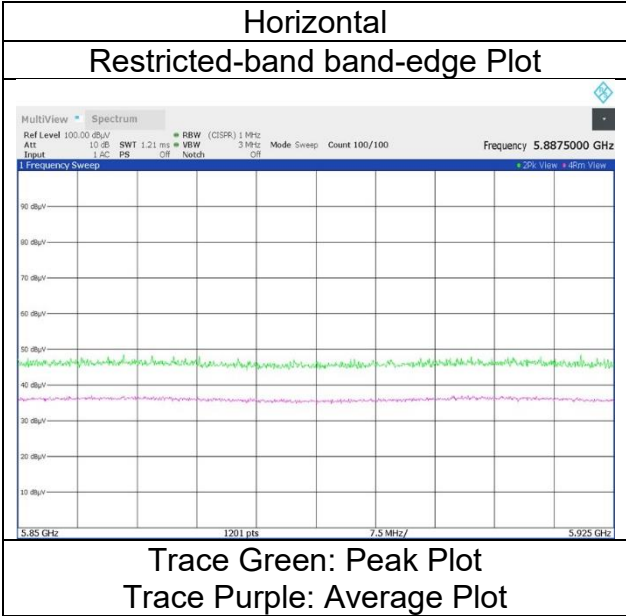
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 24, 2024
Temperature / Humidity	23 deg. C, 65 %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 CH1: slot

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 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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	46.24	36.14	-24.19	-	0.00	2.10	60.29	-34.94	-7.0	27.9	150	358	-
Hori.	7125.000	AV	34.51	36.14	-24.19	-	0.00	2.10	48.56	-46.67	-27.0	19.6	150	358	-
Vert.	7125.000	PK	47.15	36.14	-24.19	-	0.00	2.10	61.20	-34.03	-7.0	27.0	191	9	-
Vert.	7125.000	AV	35.45	36.14	-24.19	-	0.00	2.10	49.50	-45.73	-27.0	18.7	191	9	-

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

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

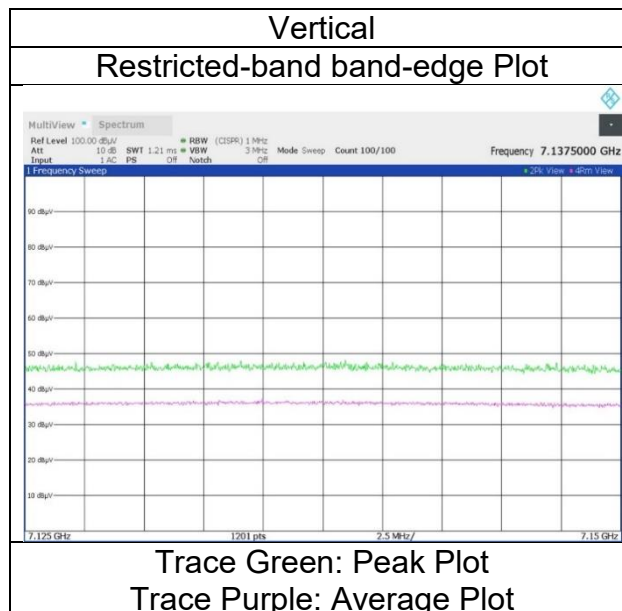
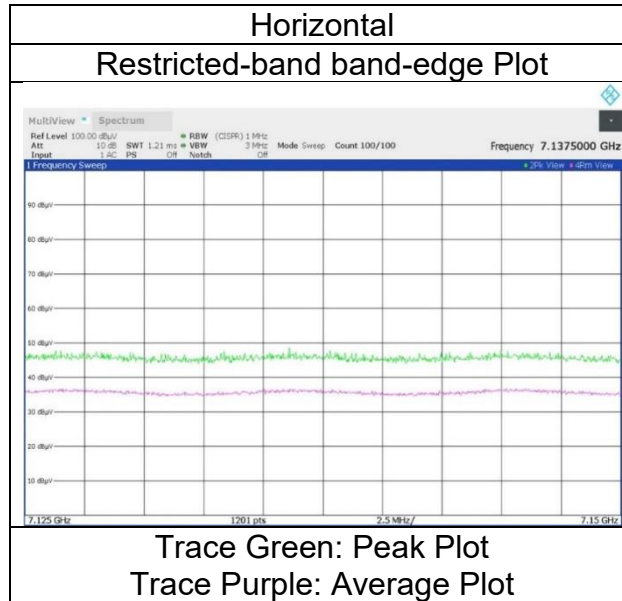
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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
Date May 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

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 24, 2024	June 2, 2024	June 14, 2024	June 11, 2024
Temperature / Humidity	23 deg. C, 65 %RH	23 deg. C, 62 %RH	24 deg. C, 63 %RH	24 deg. C, 66 %RH
Engineer	Yohsuke Matsuzawa	Makoto Hosaka	Hiromasa Sato	Yohsuke Matsuzawa
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6025 MHz (CDD)			
Antenna type	5G CH0: monopole, 5G CH1: slot			

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	47.56	38.65	-25.63	-	-9.54	51.04	73.9	22.8	150	0	Floor Noise
Hori.	18075.000	PK	42.01	39.82	13.77	48.47	-9.54	37.59	73.9	36.3	150	0	Floor Noise
Hori.	12050.000	AV	35.93	38.65	-25.63	-	-9.54	39.41	53.9	14.4	150	0	Floor Noise
Hori.	18075.000	AV	30.28	39.82	13.77	48.47	-9.54	25.86	53.9	28.0	150	0	Floor Noise
Vert.	12050.000	PK	47.51	38.65	-25.63	-	-9.54	50.99	73.9	22.9	150	0	Floor Noise
Vert.	18075.000	PK	41.62	39.82	13.77	48.47	-9.54	37.20	73.9	36.7	150	0	Floor Noise
Vert.	12050.000	AV	35.91	38.65	-25.63	-	-9.54	39.39	53.9	14.5	150	0	Floor Noise
Vert.	18075.000	AV	30.09	39.82	13.77	48.47	-9.54	25.67	53.9	28.2	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.	5925.000	PK	48.62	32.46	-24.99	-	0.00	2.10	58.19	-37.04	-7.0	30.0	149	342	-
Hori.	24100.000	PK	42.33	40.49	16.04	46.90	0.00	-9.54	42.42	-52.81	-7.0	45.8	163	195	-
Hori.	5925.000	AV	36.12	32.46	-24.99	-	0.00	2.10	45.69	-49.54	-27.0	22.5	149	342	-
Hori.	24100.000	AV	31.93	40.49	16.04	46.90	0.00	-9.54	32.02	-63.21	-27.0	36.2	163	195	-
Vert.	5925.000	PK	50.18	32.46	-24.99	-	0.00	2.10	59.75	-35.48	-7.0	28.4	177	336	-
Vert.	24100.000	PK	41.69	40.49	16.04	46.90	0.00	-9.54	41.78	-53.45	-7.0	46.4	174	245	-
Vert.	5925.000	AV	35.64	32.46	-24.99	-	0.00	2.10	45.21	-50.02	-27.0	23.0	177	336	-
Vert.	24100.000	AV	30.36	40.49	16.04	46.90	0.00	-9.54	30.45	-64.78	-27.0	37.7	174	245	-

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

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

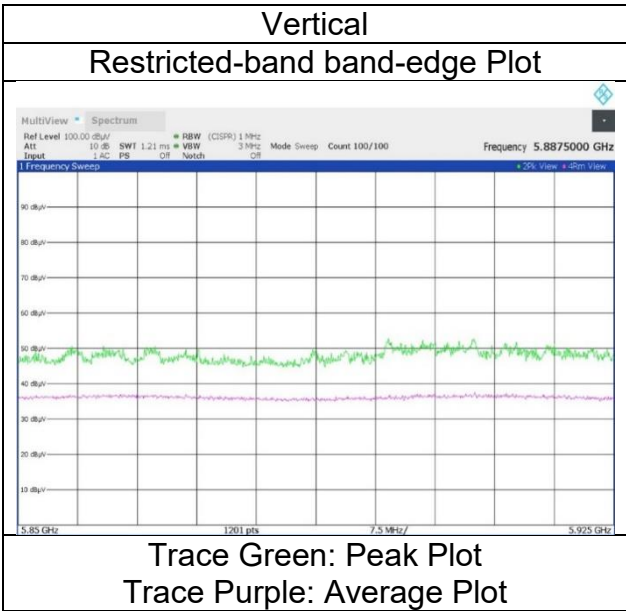
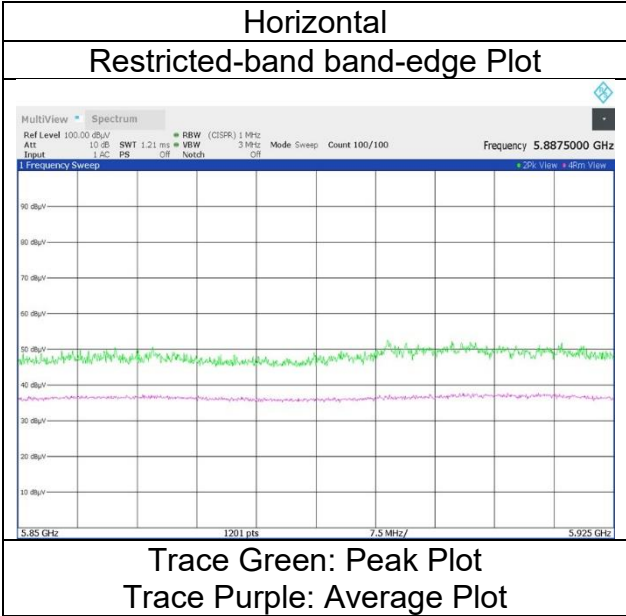
Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 24, 2024
Temperature / Humidity	23 deg. C, 65 %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 CH1: slot

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 May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6345 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

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	47.95	38.45	-25.00	-	-9.54	51.86	73.9	22.0	150	0	Floor Noise
Hori.	19035.000	PK	41.45	40.28	14.16	47.92	-9.54	38.43	73.9	35.4	150	0	Floor Noise
Hori.	12690.000	AV	35.92	38.45	-25.00	-	-9.54	39.83	53.9	14.0	150	0	Floor Noise
Hori.	19035.000	AV	29.80	40.28	14.16	47.92	-9.54	26.78	53.9	27.1	150	0	Floor Noise
Vert.	12690.000	PK	47.64	38.45	-25.00	-	-9.54	51.55	73.9	22.3	150	0	Floor Noise
Vert.	19035.000	PK	42.01	40.28	14.16	47.92	-9.54	38.99	73.9	34.9	150	0	Floor Noise
Vert.	12690.000	AV	35.76	38.45	-25.00	-	-9.54	39.67	53.9	14.2	150	0	Floor Noise
Vert.	19035.000	AV	29.71	40.28	14.16	47.92	-9.54	26.69	53.9	27.2	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.	25380.000	PK	43.56	40.80	16.69	47.32	0.00	-9.54	44.19	-51.04	-7.0	44.0	188	204	-
Hori.	25380.000	AV	33.10	40.80	16.69	47.32	0.00	-9.54	33.73	-61.50	-27.0	34.5	188	204	-
Vert.	25380.000	PK	42.94	40.80	16.69	47.32	0.00	-9.54	43.57	-51.66	-7.0	44.6	181	254	-
Vert.	25380.000	AV	32.28	40.80	16.69	47.32	0.00	-9.54	32.91	-62.32	-27.0	35.3	181	254	-

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 24, 2024 June 2, 2024 June 14, 2024 June 10, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 25 deg. C, 62 %RH
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yusuke Tanikawara
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)
Antenna type 5G CH0: monopole, 5G CH1: slot

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	41.67	40.42	14.41	47.68	-9.54	39.28	73.9	34.6	150	0	Floor Noise
Hori.	19515.000	AV	29.84	40.42	14.41	47.68	-9.54	27.45	53.9	26.4	150	0	Floor Noise
Vert.	19515.000	PK	42.13	40.42	14.41	47.68	-9.54	39.74	73.9	34.1	150	0	Floor Noise
Vert.	19515.000	AV	29.83	40.42	14.41	47.68	-9.54	27.44	53.9	26.4	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.	13010.000	PK	48.35	38.82	-24.87	-	0.00	-9.54	52.76	-42.47	-7.0	35.4	150	0	Floor Noise
Hori.	26020.000	PK	45.85	41.04	16.69	47.09	0.00	-9.54	46.95	-48.28	-7.0	41.2	202	202	-
Hori.	13010.000	AV	36.15	38.82	-24.87	-	0.00	-9.54	40.56	-54.67	-27.0	27.6	150	0	Floor Noise
Hori.	26020.000	AV	36.67	41.04	16.69	47.09	0.00	-9.54	37.77	-57.46	-27.0	30.4	202	202	-
Vert.	13010.000	PK	48.01	38.82	-24.87	-	0.00	-9.54	52.42	-42.81	-7.0	35.8	150	0	Floor Noise
Vert.	26020.000	PK	44.38	41.04	16.69	47.09	0.00	-9.54	45.48	-49.75	-7.0	42.7	175	273	-
Vert.	13010.000	AV	36.19	38.82	-24.87	-	0.00	-9.54	40.60	-54.63	-27.0	27.6	150	0	Floor Noise
Vert.	26020.000	AV	33.95	41.04	16.69	47.09	0.00	-9.54	35.05	-60.18	-27.0	33.1	175	273	-

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 May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)
Antenna type 5G CH0: monopole, 5G CH1: slot

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	41.54	40.42	14.41	47.68	-9.54	39.15	73.9	34.7	150	197	Floor Noise
Hori.	19515.000	AV	29.77	40.42	14.41	47.68	-9.54	27.38	53.9	26.5	150	197	Floor Noise
Vert.	19515.000	PK	41.24	40.42	14.41	47.68	-9.54	38.85	73.9	35.0	150	0	Floor Noise
Vert.	19515.000	AV	29.78	40.42	14.41	47.68	-9.54	27.39	53.9	26.5	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.	13010.000	PK	47.53	38.82	-24.87	-	0.00	-9.54	51.94	-43.29	-7.0	36.2	150	0	Floor Noise
Hori.	26020.000	PK	45.39	41.04	16.69	47.09	0.00	-9.54	46.49	-48.74	-7.0	41.7	206	207	-
Hori.	13010.000	AV	36.07	38.82	-24.87	-	0.00	-9.54	40.48	-54.75	-27.0	27.7	150	0	Floor Noise
Hori.	26020.000	AV	36.13	41.04	16.69	47.09	0.00	-9.54	37.23	-58.00	-27.0	31.0	206	207	-
Vert.	13010.000	PK	48.07	38.82	-24.87	-	0.00	-9.54	52.48	-42.75	-7.0	35.7	150	0	Floor Noise
Vert.	26020.000	PK	44.44	41.04	16.69	47.09	0.00	-9.54	45.54	-49.69	-7.0	42.6	175	273	-
Vert.	13010.000	AV	36.01	38.82	-24.87	-	0.00	-9.54	40.42	-54.81	-27.0	27.8	150	0	Floor Noise
Vert.	26020.000	AV	33.70	41.04	16.69	47.09	0.00	-9.54	34.80	-60.43	-27.0	33.4	175	273	-

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

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

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

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 June 10, 2024 WAC1
Temperature / Humidity 24 deg. C, 65 %RH 23 deg. C, 65 %RH WAC1
Engineer Yusuke Tanikawara Yohsuke Matsuzawa Makoto Hosaka WAC1
(Below 1 GHz) (1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) WAC1
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD) WAC1
Antenna type 5G CH0: monopole , 5G CH1: slot WAC1

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.	171.700	QP	38.40	12.65	7.32	33.01	0.00	25.36	43.5	18.1	178	115	-
Hori.	497.914	QP	36.30	17.73	8.04	32.18	0.00	29.89	46.0	16.1	100	296	-
Hori.	564.773	QP	36.90	18.11	8.18	31.99	0.00	31.20	46.0	14.8	173	211	-
Hori.	799.725	QP	30.20	20.68	8.72	31.05	0.00	28.55	46.0	17.4	100	202	-
Hori.	815.218	QP	24.20	20.76	8.74	30.99	0.00	22.71	46.0	23.2	148	192	-
Hori.	13330.000	PK	47.61	39.03	-24.71	-	-9.54	52.39	73.9	21.5	150	0	Floor Noise
Hori.	19995.000	PK	41.11	40.32	14.45	47.58	-9.54	38.76	73.9	35.1	150	0	Floor Noise
Hori.	13330.000	AV	35.41	39.03	-24.71	-	-9.54	40.19	53.9	13.7	150	0	Floor Noise
Hori.	19995.000	AV	29.43	40.32	14.45	47.58	-9.54	27.08	53.9	26.8	150	0	Floor Noise
Vert.	91.065	QP	43.10	9.20	6.92	33.09	0.00	26.13	43.5	17.3	100	209	-
Vert.	170.504	QP	37.60	12.63	7.31	33.01	0.00	24.53	43.5	18.9	100	356	-
Vert.	252.501	QP	41.90	11.80	7.36	32.82	0.00	28.24	46.0	17.7	100	37	-
Vert.	521.159	QP	30.10	17.57	8.09	32.11	0.00	23.65	46.0	22.3	100	186	-
Vert.	557.814	QP	38.10	17.84	8.16	32.00	0.00	32.10	46.0	13.9	100	192	-
Vert.	13330.000	PK	47.89	39.03	-24.71	-	-9.54	52.67	73.9	21.2	150	0	Floor Noise
Vert.	19995.000	PK	40.95	40.32	14.45	47.58	-9.54	38.60	73.9	35.3	150	0	Floor Noise
Vert.	13330.000	AV	35.54	39.03	-24.71	-	-9.54	40.32	53.9	13.5	150	0	Floor Noise
Vert.	19995.000	AV	29.35	40.32	14.45	47.58	-9.54	27.00	53.9	26.9	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 : 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.	26660.000	PK	54.93	43.20	17.03	60.18	0.00	-9.54	45.44	-49.79	-7.0	42.7	173	223	-
Hori.	26660.000	AV	48.84	43.20	17.03	60.18	0.00	-9.54	39.35	-55.88	-27.0	28.8	173	223	-
Vert.	26660.000	PK	54.78	43.20	17.03	60.18	0.00	-9.54	45.29	-49.94	-7.0	42.9	175	267	-
Vert.	26660.000	AV	47.12	43.20	17.03	60.18	0.00	-9.54	37.63	-57.60	-27.0	30.6	175	267	-

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 WAC1 WAC1
Date May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6825 MHz (CDD)
Antenna type 5G CH0: monopole, 5G CH1: slot

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	40.95	40.22	14.81	47.27	-9.54	39.17	73.9	34.7	150	0	Floor Noise
Hori.	20475.000	AV	29.21	40.22	14.81	47.27	-9.54	27.43	53.9	26.4	150	0	Floor Noise
Vert.	20475.000	PK	40.93	40.22	14.81	47.27	-9.54	39.15	73.9	34.7	150	0	Floor Noise
Vert.	20475.000	AV	29.18	40.22	14.81	47.27	-9.54	27.40	53.9	26.5	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	48.19	39.10	-24.67	-	0.00	-9.54	53.08	-42.15	-7.0	35.1	150	0	Floor Noise
Hori.	27300.000	PK	54.68	43.42	17.31	60.62	0.00	-9.54	45.25	-49.98	-7.0	42.9	154	218	-
Hori.	13650.000	AV	35.88	39.10	-24.67	-	0.00	-9.54	40.77	-54.46	-27.0	27.4	150	0	Floor Noise
Hori.	27300.000	AV	47.27	43.42	17.31	60.62	0.00	-9.54	37.84	-57.39	-27.0	30.3	154	218	-
Vert.	13650.000	PK	47.73	39.10	-24.67	-	0.00	-9.54	52.62	-42.61	-7.0	35.6	150	0	Floor Noise
Vert.	27300.000	PK	51.90	43.42	17.31	60.62	0.00	-9.54	42.47	-52.76	-7.0	45.7	175	246	-
Vert.	13650.000	AV	35.90	39.10	-24.67	-	0.00	-9.54	40.79	-54.44	-27.0	27.4	150	0	Floor Noise
Vert.	27300.000	AV	44.57	43.42	17.31	60.62	0.00	-9.54	35.14	-60.09	-27.0	33.0	175	246	-

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

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

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

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 24, 2024	June 2, 2024	June 14, 2024	June 11, 2024
Temperature / Humidity	23 deg. C, 65 %RH	23 deg. C, 62 %RH	24 deg. C, 63 %RH	24 deg. C, 66 %RH
Engineer	Yohsuke Matsuzawa	Makoto Hosaka	Hiromasa Sato	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)			
Antenna type	5G CH0: monopole , 5G CH1: slot			

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	41.98	40.21	14.99	47.17	-9.54	40.47	73.9	33.4	150	0	Floor Noise
Hori.	20955.000	AV	30.30	40.21	14.99	47.17	-9.54	28.79	53.9	25.1	150	0	Floor Noise
Vert.	20955.000	PK	40.93	40.21	14.99	47.17	-9.54	39.42	73.9	34.4	150	0	Floor Noise
Vert.	20955.000	AV	30.13	40.21	14.99	47.17	-9.54	28.62	53.9	25.2	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 : 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.	13970.000	PK	47.87	39.06	-24.76	-	0.00	-9.54	52.63	-42.60	-7.0	35.6	150	0	Floor Noise
Hori.	27940.000	PK	53.58	43.64	17.58	61.06	0.00	-9.54	44.20	-51.03	-7.0	44.0	161	194	-
Hori.	13970.000	AV	36.25	39.06	-24.76	-	0.00	-9.54	41.01	-54.22	-27.0	27.2	150	0	Floor Noise
Hori.	27940.000	AV	47.36	43.64	17.58	61.06	0.00	-9.54	37.98	-57.25	-27.0	30.2	161	194	-
Vert.	13970.000	PK	47.75	39.06	-24.76	-	0.00	-9.54	52.51	-42.72	-7.0	35.7	150	0	Floor Noise
Vert.	27940.000	PK	53.29	43.64	17.58	61.06	0.00	-9.54	43.91	-51.32	-7.0	44.3	169	247	-
Vert.	13970.000	AV	36.18	39.06	-24.76	-	0.00	-9.54	40.94	-54.29	-27.0	27.2	150	0	Floor Noise
Vert.	27940.000	AV	44.24	43.64	17.58	61.06	0.00	-9.54	34.86	-60.37	-27.0	33.3	169	247	-

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	WAC1	WAC1
Date	May 24, 2024	June 2, 2024	June 14, 2024	June 11, 2024
Temperature / Humidity	23 deg. C, 65 %RH	23 deg. C, 62 %RH	24 deg. C, 63 %RH	24 deg. C, 66 %RH
Engineer	Yohsuke Matsuzawa	Makoto Hosaka	Hiromasa Sato	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)			
Antenna type	5G CH0: monopole , 5G CH1: slot			

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	41.55	40.21	14.99	47.17	-9.54	40.04	73.9	33.8	150	0	Floor Noise
Hori.	20955.000	AV	30.22	40.21	14.99	47.17	-9.54	28.71	53.9	25.1	150	0	Floor Noise
Vert.	20955.000	PK	41.30	40.21	14.99	47.17	-9.54	39.79	73.9	34.1	150	0	Floor Noise
Vert.	20955.000	AV	30.00	40.21	14.99	47.17	-9.54	28.49	53.9	25.4	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.	7125.000	PK	46.14	36.14	-24.19	-	0.00	2.10	60.19	-35.04	-7.0	28.0	159	357	-
Hori.	13970.000	PK	48.02	39.06	-24.76	-	0.00	-9.54	52.78	-42.45	-7.0	35.4	150	0	Floor Noise
Hori.	27940.000	PK	54.14	43.64	17.58	61.06	0.00	-9.54	44.76	-50.47	-7.0	43.4	159	194	-
Hori.	7125.000	AV	35.58	36.14	-24.19	-	0.00	2.10	49.63	-45.60	-27.0	18.6	159	357	-
Hori.	13970.000	AV	36.34	39.06	-24.76	-	0.00	-9.54	41.10	-54.13	-27.0	27.1	150	0	Floor Noise
Hori.	27940.000	AV	47.12	43.64	17.58	61.06	0.00	-9.54	37.74	-57.49	-27.0	30.4	159	194	-
Vert.	7125.000	PK	45.99	36.14	-24.19	-	0.00	2.10	60.04	-35.19	-7.0	28.1	172	123	-
Vert.	13970.000	PK	48.31	39.06	-24.76	-	0.00	-9.54	53.07	-42.16	-7.0	35.1	150	0	Floor Noise
Vert.	27940.000	PK	52.53	43.64	17.58	61.06	0.00	-9.54	43.15	-52.08	-7.0	45.0	140	248	-
Vert.	7125.000	AV	35.32	36.14	-24.19	-	0.00	2.10	49.37	-45.86	-27.0	18.8	172	123	-
Vert.	13970.000	AV	36.42	39.06	-24.76	-	0.00	-9.54	41.18	-54.05	-27.0	27.0	150	0	Floor Noise
Vert.	27940.000	AV	44.03	43.64	17.58	61.06	0.00	-9.54	34.65	-60.58	-27.0	33.5	140	248	-

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).

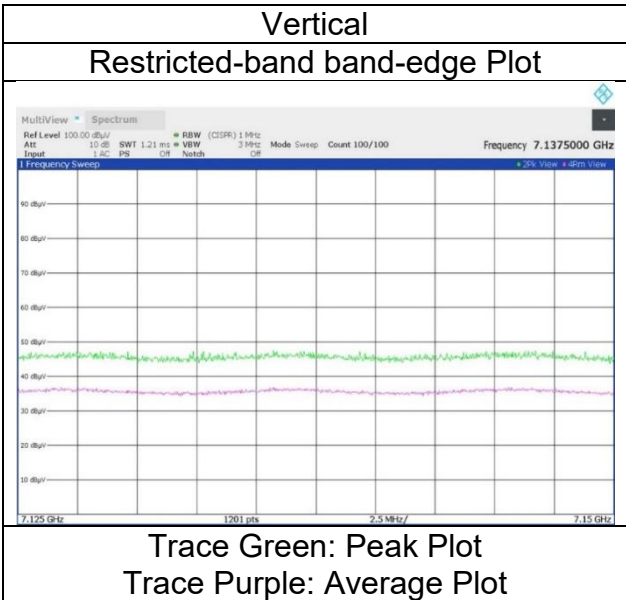
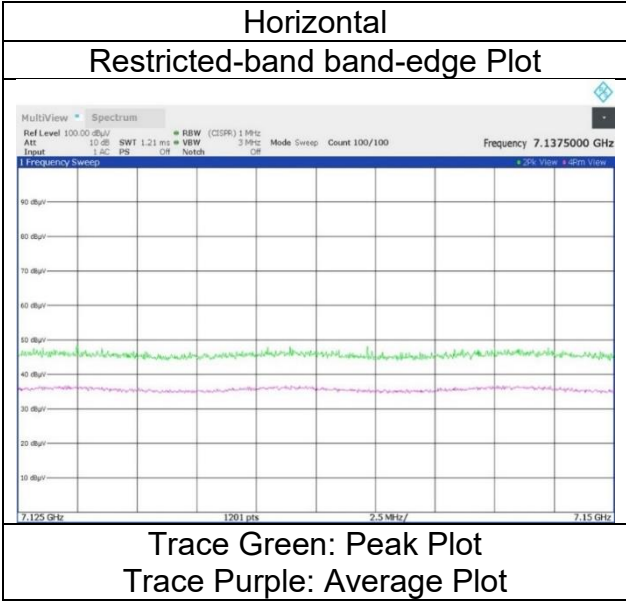
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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, 65 %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 CH1: slot

Segment 1 / Index 67



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

Index 68

(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	47.87	32.46	-24.99	-	0.00	2.10	57.44	-37.79	-7.0	30.7	104	343	-
Hori.	5925.000	AV	36.52	32.46	-24.99	-	0.00	2.10	46.09	-49.14	-27.0	22.1	104	343	-
Vert.	5925.000	PK	46.23	32.46	-24.99	-	0.00	2.10	55.80	-39.43	-7.0	32.4	195	338	-
Vert.	5925.000	AV	35.35	32.46	-24.99	-	0.00	2.10	44.92	-50.31	-27.0	23.3	195	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]) = $10 \times \text{LOG} \left(\left(10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \times 10^{-6} \times \text{Distance : 3 [m]} \right)^{\frac{2}{30}} \times 10^3$

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

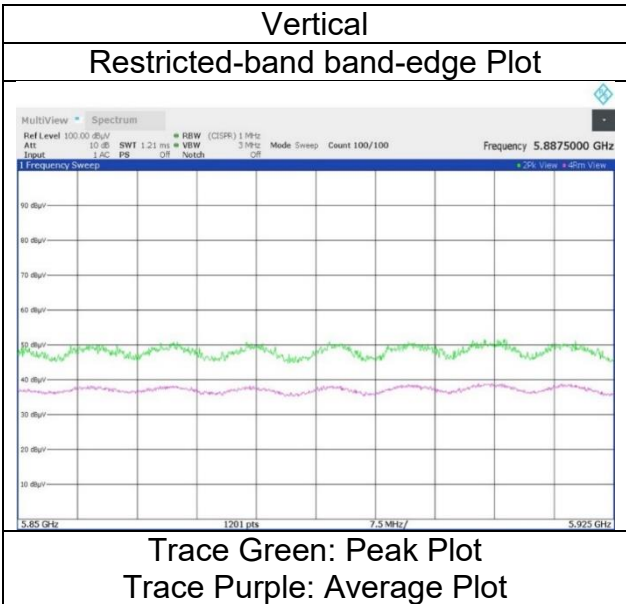
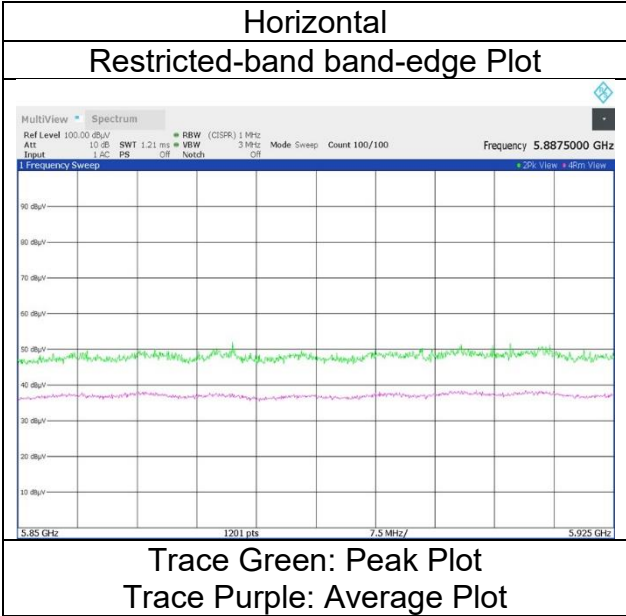
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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
Date	May 24, 2024
Temperature / Humidity	23 deg. C, 65 %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 CH1: slot

Index 68



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 24, 2024
Temperature / Humidity 23 deg. C, 65 %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 CH1: slot

Index 68

(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	45.31	36.14	-24.19	-	0.00	2.10	59.36	-35.87	-7.0	28.8	149	356	-
Hori.	7125.000	AV	35.00	36.14	-24.19	-	0.00	2.10	49.05	-46.18	-27.0	19.1	149	356	-
Vert.	7125.000	PK	45.51	36.14	-24.19	-	0.00	2.10	59.56	-35.67	-7.0	28.6	149	196	-
Vert.	7125.000	AV	35.37	36.14	-24.19	-	0.00	2.10	49.42	-45.81	-27.0	18.8	149	196	-

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

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

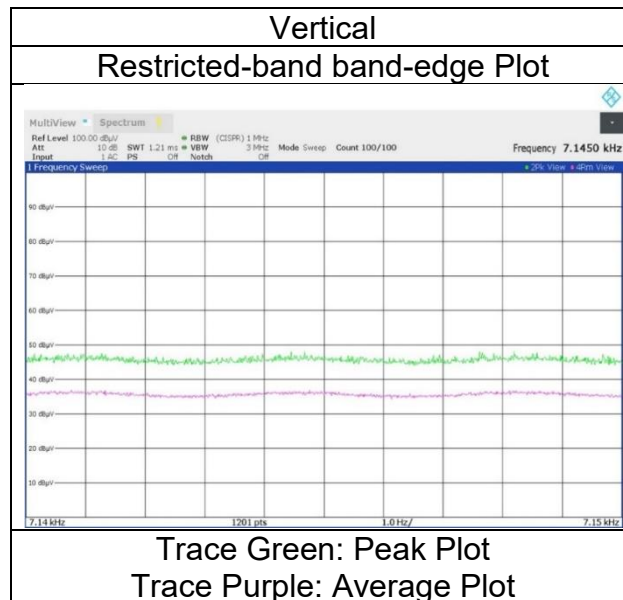
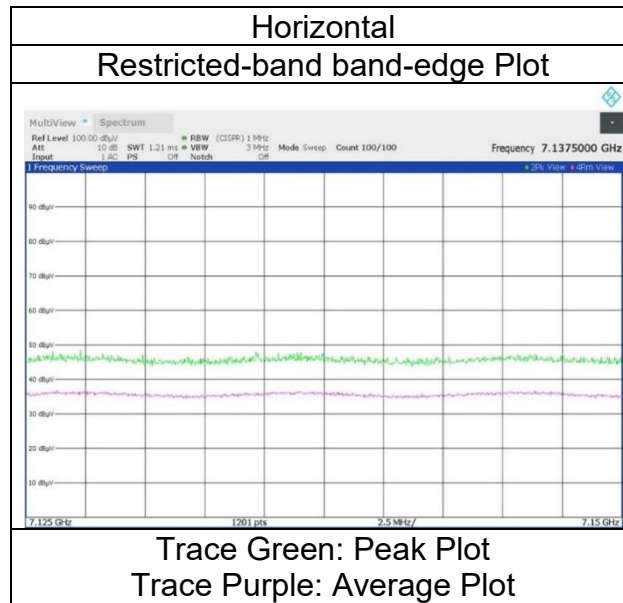
Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place WAC1
Semi Anechoic Chamber May 24, 2024
Date 23 deg. C, 65 %RH
Temperature / Humidity Yohsuke Matsuzawa
Engineer (1 GHz -10 GHz)
Mode Tx 11ax-160 (OFDMA) 2x996 -tone RU, 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH1: slot

Index 68

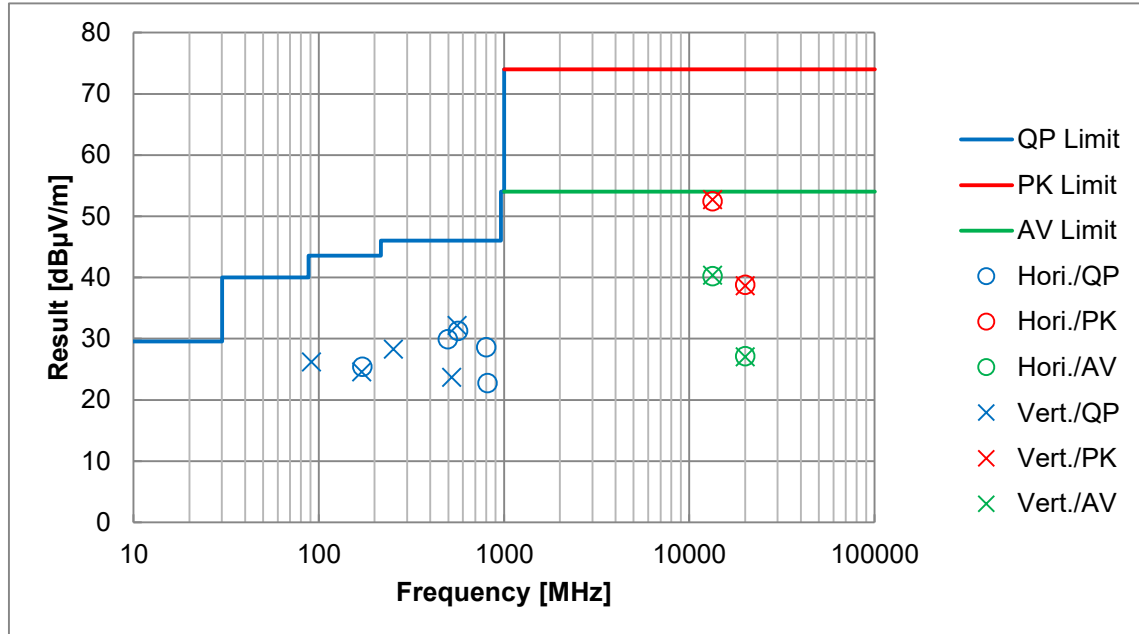


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

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

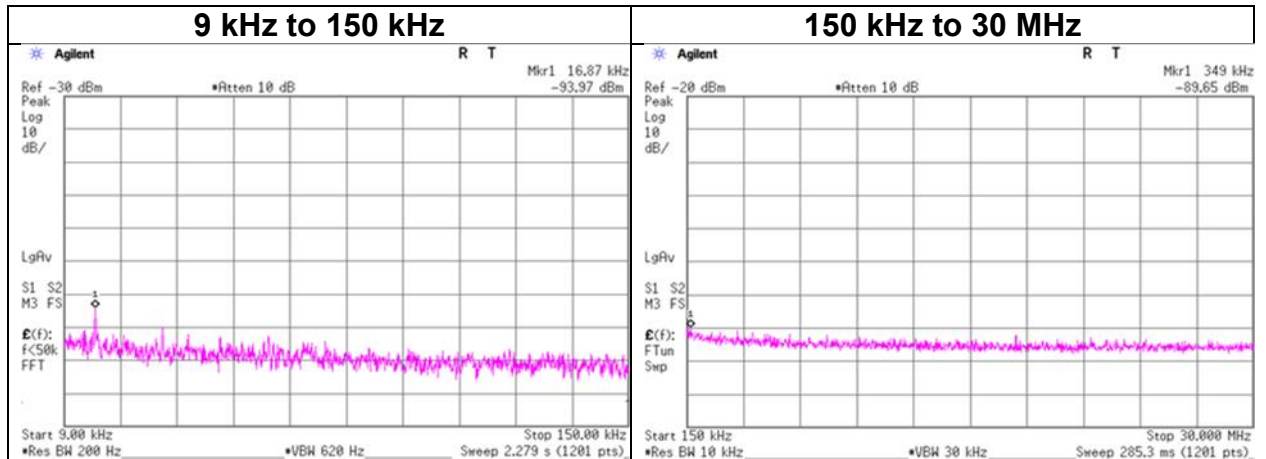
Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1	WAC1
Date	June 10, 2024	May 24, 2024	June 2, 2024	June 14, 2024	June 10, 2024
Temperature / Humidity	24 deg. C, 65 %RH	23 deg. C, 65 %RH	23 deg. C, 62 %RH	24 deg. C, 63 %RH	25 deg. C, 62 %RH
Engineer	Yusuke Tanikawara	Yohsuke Matsuzawa	Makoto Hosaka	Hiromasa Sato	Yusuke Tanikawara
	(Below 1 GHz)	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)				
Antenna type	5G CH0: monopole , 5G CH1: slot				



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

Conducted Spurious Emission

Test place Shonan EMC Lab. No.8 Shielded Room
Date June 24, 2015
Temperature / Humidity 25 deg. C / 55 % RH
Engineer Yohsuke Matsuzawa
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain * [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
16.87	-94.0	0.01	9.83	2.0	1.0	-82.1	300	6.0	-20.9	43.0	63.9	-
349.00	-89.7	0.01	9.83	2.0	1.0	-77.8	300	6.0	-16.6	16.7	33.3	-

$$E \text{ [dBuV/m]} = \text{EIRP [dBm]} - 20 \log (\text{Distance [m]}) + \text{Ground bounce [dB]} + 104.8 \text{ [dBuV/m]}$$

$$\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log (N)$$

N: Number of output

APPENDIX 2: Test Instruments

Test Equipment (1/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	145113	Digital Multimeter	Agilent Technologies	U1251A	TW46350095	2023/09/25	12
AT	145745	Terminator	TME	CT-01 BP	-	2023/12/08	12
AT	145800	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250106	2024/03/25	12
AT	146190	Terminator	TME	CT-01 BP	-	2023/12/08	12
AT	146212	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997828	2023/09/25	12
AT	146223	Spectrum Analyzer	Keysight Technologies Inc	N9010A-526	MY48031482	2023/10/07	12
AT	146247	Power Meter	Keysight Technologies Inc	8990B	MY51000272	2024/05/14	12
AT	146310	Power sensor	Keysight Technologies Inc	N1923A	MY5326009	2024/05/14	12
AT	160495	Attenuator	Weinschel Corp.	54A-20	86752	2023/12/08	12
AT	160496	Attenuator	Weinschel Corp.	54A-20	87636	2023/12/08	12
AT	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2023/09/28	12
AT	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2023/09/28	12
AT	169912	Power sensor	Keysight Technologies Inc	N1923A	MY57290005	2023/09/28	12
AT	171614	Terminator	Weinschel - API Technologies Corp	M1459A	88995	2024/05/10	12
AT	171616	Terminator	Weinschel - API Technologies Corp	M1459A	89025	2024/05/09	12
AT	191845	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/07	12
AT	191847	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/03	12
AT	196937	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803605/2	2024/03/07	12
AT	196941	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803093/2	2024/03/07	12
AT	236410	Spectrum Analyzer	Keysight Technologies Inc	N9030B	MY63050151	2024/04/26	12
AT	240499	Spectrum Analyzer	Keysight Technologies Inc	N9020B	MY59050557	2023/10/21	12
AT	242075	Terminator	Weinschel - API Technologies Corp	M1459A	121073	2023/11/17	12
CE	145035	Coaxial Cable	Suhner	RG223U	-	2024/04/01	12
CE	145541	LISN	Rohde & Schwarz	ENV216	100514	2024/02/06	12
CE	145542	LISN	Rohde & Schwarz	ENV216	100516	2024/02/06	12
CE	145746	Terminator	TME	CT-01 BP	-	2023/12/08	12
CE	146209	Test Receiver	Rohde & Schwarz	ESU26	100484	2023/09/22	12
CE	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2023/09/25	12
CE	146294	Humidity Indicator	A&D Company	AD-5681	4062118	-	-
CE	146432	Tape Measure	TAJIMA	GL19-55	-	-	-
CE	199786	Attenuator	JFW	50HF-006N	-	2024/06/14	12
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0546	-	-
RE	144878	Pre Amplifier	Hewlett Packard	8449B	3008A01268	2024/04/04	12
RE	144941	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	230	2024/05/13	12
RE	144942	Horn Antenna	ETS-Lindgren (Cedar Park, Texas)	3160-10	00047525	2024/05/23	12
RE	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2024/03/05	12
RE	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	B3208602403-176	2024/05/09	12

Test Equipment (2/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2023/08/23	12
RE	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2024/06/20	12
RE	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2024/06/20	12
RE	145515	Horn Antenna	ETS-Lindgren (Cedar Park, Texas)	3116	108256	2024/05/13	12
RE	145527	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	193	2024/04/10	12
RE	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2024/03/05	12
RE	196945	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803414/2	2024/03/12	12
RE	199784	Attenuator	JFW	50HF-006N	-	2024/06/14	12
RE	207280	Tape Measure	ASKUL	-	-	-	-
RE	213530	Test Receiver	Rohde & Schwarz	ESW44	103068	2024/02/22	12
RE	235267	Test Receiver	Rohde & Schwarz	ESW44	103018	2024/03/05	12
RE	235268	Test Receiver	Rohde & Schwarz	ESW44	103212	2023/12/26	12
RE	235639	DIGITAL MULTIMETER	HIOKI E.E. CORPORATION	DT4261	230313156	2024/05/29	12
RE	235735	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	12
RE	236212	Semi-Anechoic Chamber	TDK	SWAC-01(NSA)	1	2024/05/09	12
RE	236583	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000111	-	-
RE	236616	Semi-Anechoic Chamber	TDK	SWAC-01(SVSWR)	1	2024/06/04	12
RE	236708	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-SMS117B-2m	47256-02-03	2024/05/09	12
RE	236710	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-7.0m	47256-03-01	2024/05/09	12
RE	236723	Coaxial Cable	Hayashi-Repic co., Ltd.	SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C	2000429/47753-1/47256-01-03/47256-01-01	2024/05/09	12
RE	236755	Coaxial Cable	Huber+Suhner	SF106/11N/11N/6000	2001166	2023/05/23	
RE	236769	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000111	2024/04/19	12
RE	236799	Antenna Tilt Jig	Intelligent System Engineering Co., Ltd	Antenna Tilt Jig	1512004-0019-052	-	-
RE	236966	Pre Amplifier	TSJ (Techno Science Japan)	MLA-9K01-L01	23050009	2024/06/14	12
RE	237784	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07795	2023/11/01	12
RE	239643	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S021	2023/08/22	12
RE	239649	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	2001217/2	2023/08/22	12
RE	239786	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124+BBA9106	01895	2023/09/21	12
RE	242058	Highpass Filter	Micro-Tronics	HPM50107	G118	2023/11/17	12

Test Equipment (3/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	243209	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NFS13-1.0m	49190-01-01	2023/12/20	12
RE	243215	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NMS13-9.0m	49306-01-03	2024/06/12	12
RE	243217	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NMS13-9.0m	49306-01-04	2023/12/20	12

***Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.**

**The expiration date of the calibration is the end of the expired month.
As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

AT: Antenna Terminal Conducted test

CE: Conducted Emission

RE: Radiated Emission