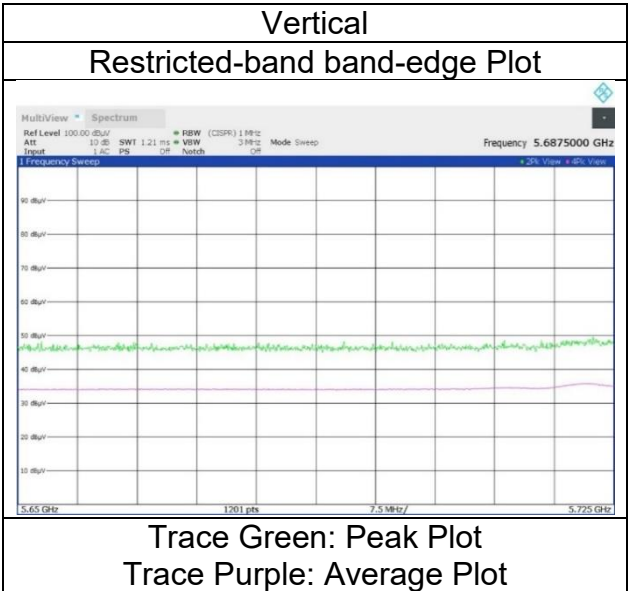
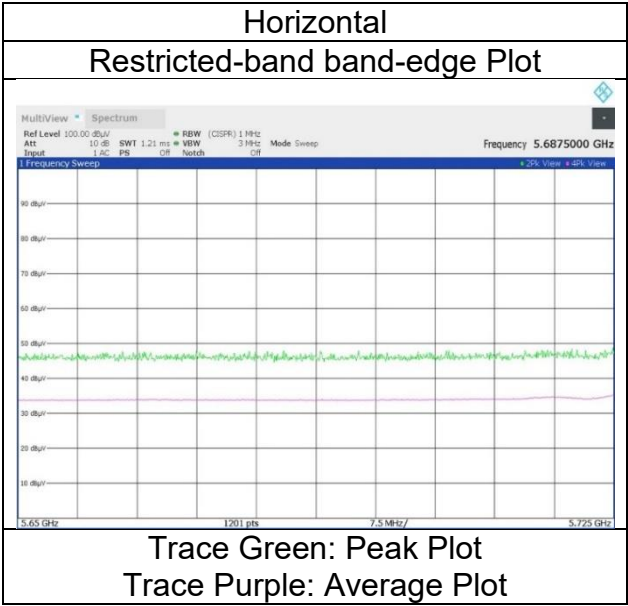


Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-40 5755 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5795 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.62	32.33	-25.01	-	2.10	58.04	-37.19	27.0	64.1	149	30	-
Hori.	5855.000	PK	48.21	32.34	-25.00	-	2.10	57.65	-37.58	15.6	53.1	149	30	-
Hori.	5875.000	PK	48.17	32.38	-25.00	-	2.10	57.65	-37.58	10.0	47.5	149	30	-
Hori.	5925.000	PK	48.13	32.46	-24.99	-	2.10	57.70	-37.53	-27.0	10.5	149	30	-
Vert.	5850.000	PK	49.01	32.33	-25.01	-	2.10	58.43	-36.80	27.0	63.8	275	341	-
Vert.	5855.000	PK	49.18	32.34	-25.00	-	2.10	58.62	-36.61	15.6	52.2	275	341	-
Vert.	5875.000	PK	48.86	32.38	-25.00	-	2.10	58.34	-36.89	10.0	46.8	275	341	-
Vert.	5925.000	PK	49.01	32.46	-24.99	-	2.10	58.58	-36.65	-27.0	9.6	275	341	-

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

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

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

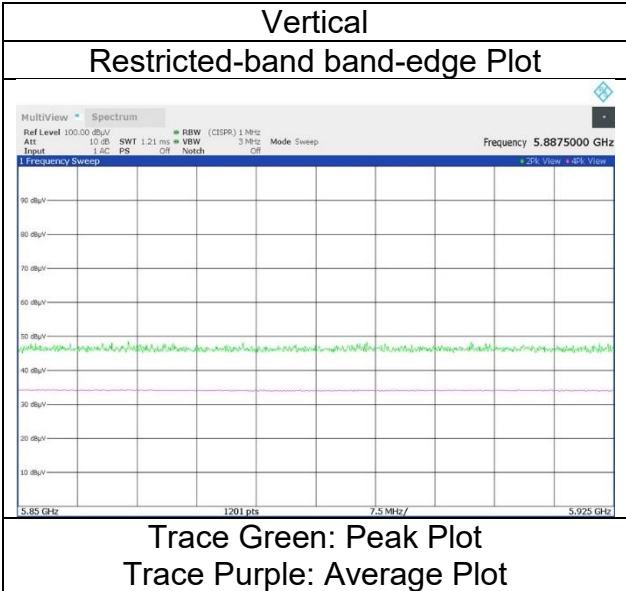
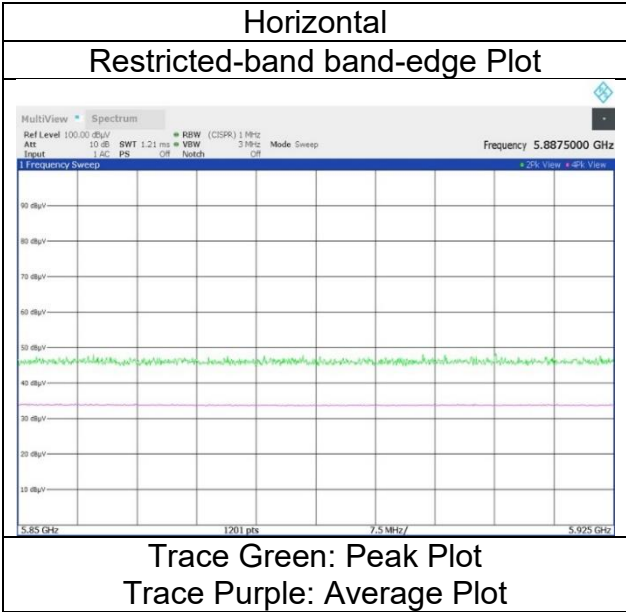
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-40 5795 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 19 deg. C / 40 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.00	31.86	-25.53	-	2.10	57.43	73.9	16.4	149	43	-
Hori.	15570.000	PK	46.14	39.60	-25.88	-	-9.54	50.32	73.9	23.5	150	0	-
Hori.	5150.000	AV	36.04	31.86	-25.53	-	2.10	44.47	53.9	9.4	149	43	VBW:200 Hz
Hori.	15570.000	AV	32.02	39.60	-25.88	-	-9.54	36.20	53.9	17.7	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	50.34	31.86	-25.53	-	2.10	58.77	73.9	15.1	214	8	-
Vert.	15570.000	PK	46.26	39.60	-25.88	-	-9.54	50.44	73.9	23.4	150	0	-
Vert.	5150.000	AV	35.83	31.86	-25.53	-	2.10	44.26	53.9	9.6	214	8	VBW:200 Hz
Vert.	15570.000	AV	32.03	39.60	-25.88	-	-9.54	36.21	53.9	17.6	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

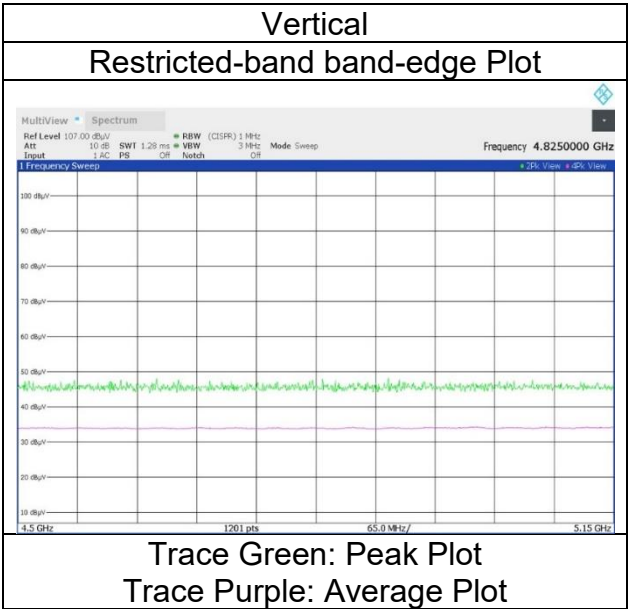
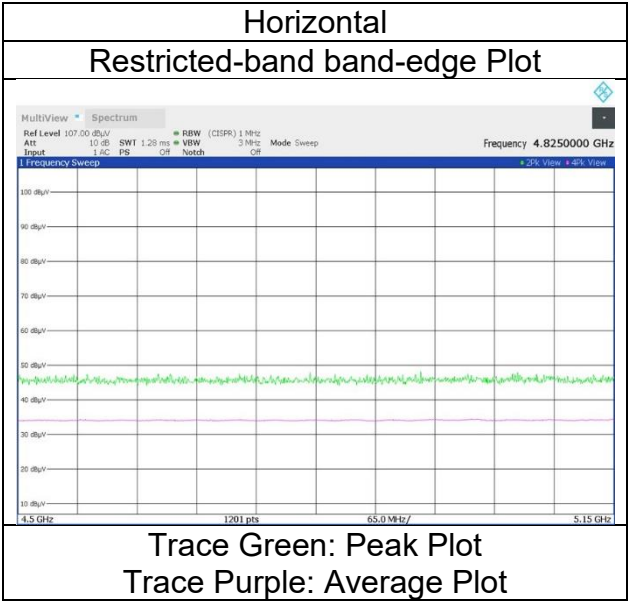
(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	6920.000	PK	52.21	35.22	-33.35	-	2.10	56.18	-39.05	-27.0	12.0	196	49	-	-
Hori.	10380.000	PK	50.52	36.26	-29.53	-	-9.54	47.71	-47.52	-27.0	20.5	129	135	-	-
Vert.	6920.000	PK	52.20	35.22	-33.35	-	2.10	56.17	-39.06	-27.0	12.0	182	329	-	-
Vert.	10380.000	PK	52.47	36.26	-29.53	-	-9.54	49.66	-45.57	-27.0	18.5	141	283	-	-

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takahiro Suzuki
Tx 11ax-40(OFDM) 5190 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 19 deg. C / 40 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5230 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	15690.000	PK	47.48	39.72	-25.93	-	-9.54	51.73	73.9	22.1	150	0		
Hori.	15690.000	AV	32.64	39.72	-25.93	-	-9.54	36.89	53.9	17.0	150	0	VBW:200 Hz, Floor noise	
Vert.	15690.000	PK	47.05	39.72	-25.93	-	-9.54	51.30	73.9	22.6	150	0		
Vert.	15690.000	AV	32.78	39.72	-25.93	-	-9.54	37.03	53.9	16.8	150	0	VBW:200 Hz, Floor noise	

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6973.333	PK	53.28	35.53	-33.34	-	2.10	57.57	-37.66	-27.0	10.6	207	48	-
Hori.	10460.000	PK	49.26	36.37	-29.39	-	-9.54	46.70	-48.53	-27.0	21.5	173	145	-
Vert.	6973.333	PK	53.04	35.53	-33.34	-	2.10	57.33	-37.90	-27.0	10.9	192	331	-
Vert.	10460.000	PK	51.45	36.37	-29.39	-	-9.54	48.89	-46.34	-27.0	19.3	183	283	-

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 19 deg. C / 40 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	52.25	31.58	-25.29	-	2.10	60.64	73.9	13.2	152	44	-
Hori.	10620.000	PK	48.34	36.91	-29.22	-	-9.54	46.49	73.9	27.4	154	302	-
Hori.	15930.000	PK	46.23	40.05	-26.02	-	-9.54	50.72	73.9	23.1	150	0	-
Hori.	5350.000	AV	37.27	31.58	-25.29	-	2.10	45.66	53.9	8.2	152	44	VBW:200 Hz
Hori.	10620.000	AV	33.83	36.91	-29.22	-	-9.54	31.98	53.9	21.9	154	302	VBW:200 Hz
Hori.	15930.000	AV	32.14	40.05	-26.02	-	-9.54	36.63	53.9	17.2	150	0	VBW:200 Hz, Floor noise
Vert.	5350.000	PK	52.18	31.58	-25.29	-	2.10	60.57	73.9	13.3	141	7	-
Vert.	10620.000	PK	49.27	36.91	-29.22	-	-9.54	47.42	73.9	26.4	148	260	-
Vert.	15930.000	PK	46.08	40.05	-26.02	-	-9.54	50.57	73.9	23.3	150	0	-
Vert.	5350.000	AV	36.97	31.58	-25.29	-	2.10	45.36	53.9	8.5	141	7	VBW:200 Hz
Vert.	10620.000	AV	34.43	36.91	-29.22	-	-9.54	32.58	53.9	21.3	148	260	VBW:200 Hz
Vert.	15930.000	AV	32.18	40.05	-26.02	-	-9.54	36.67	53.9	17.2	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

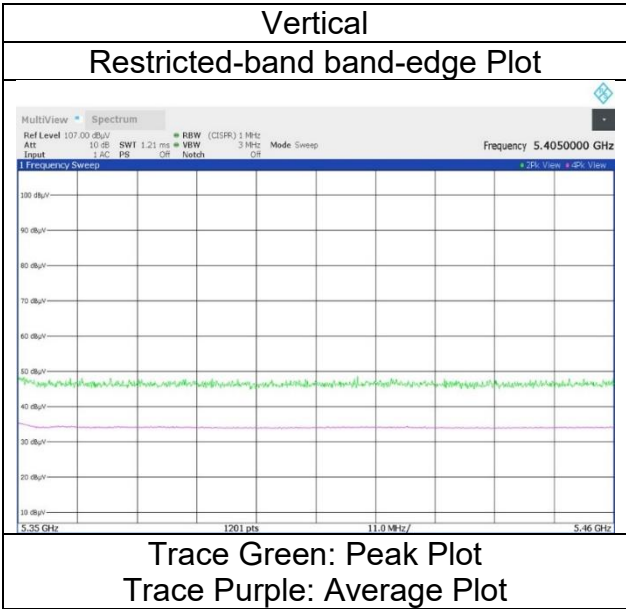
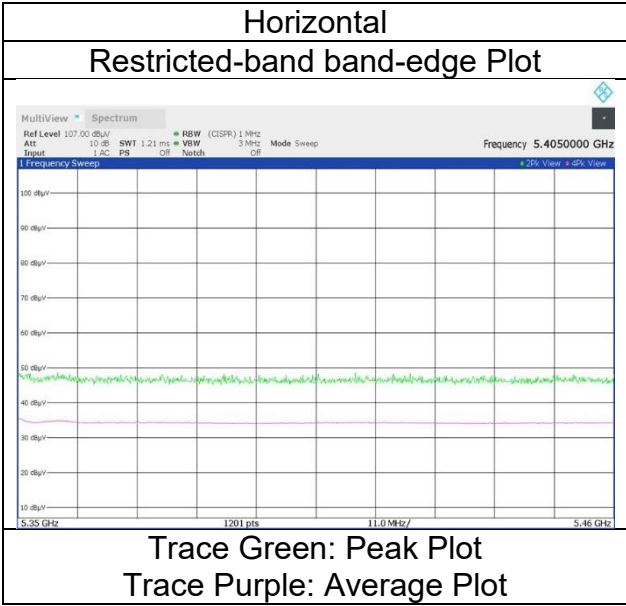
(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7080.000	PK	52.98	36.03	-33.23	-	2.10	57.88	-37.35	-27.0	10.3	212	48	-
Vert.	7080.000	PK	53.07	36.03	-33.23	-	2.10	57.97	-37.26	-27.0	10.2	196	332	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40(OFDM) 5310 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 13, 2024	March 18, 2024	March 19, 2024
Temperature / Humidity	19 deg. C / 40 % RH	20 deg. C / 32 % RH	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki	Miku Ikudome	Miku Ikudome
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5510 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.85	31.78	-25.16	-	2.10	58.57	73.9	15.3	148	34	-
Hori.	11020.000	PK	47.66	37.41	-28.85	-	-9.54	46.68	73.9	27.2	160	306	-
Hori.	5460.000	AV	36.06	31.78	-25.16	-	2.10	44.78	53.9	9.1	148	34	VBW:200 Hz
Hori.	11020.000	AV	32.68	37.41	-28.85	-	-9.54	31.70	53.9	22.2	160	306	VBW:200 Hz
Vert.	5460.000	PK	50.17	31.78	-25.16	-	2.10	58.89	73.9	15.0	208	1	-
Vert.	11020.000	PK	47.53	37.41	-28.85	-	-9.54	46.55	73.9	27.3	170	307	-
Vert.	5460.000	AV	35.93	31.78	-25.16	-	2.10	44.65	53.9	9.2	208	1	VBW:200 Hz
Vert.	11020.000	AV	32.82	37.41	-28.85	-	-9.54	31.84	53.9	22.0	170	307	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.08	31.79	-25.15	-	2.10	58.82	-36.41	-27.0	9.4	148	34	-
Hori.	6612.000	PK	50.30	34.31	-33.36	-	2.10	53.35	-41.88	-27.0	14.8	227	47	-
Hori.	16530.000	PK	46.32	39.83	-25.44	-	-9.54	51.17	-44.06	-27.0	17.0	150	0	-
Vert.	5470.000	PK	50.65	31.79	-25.15	-	2.10	59.39	-35.84	-27.0	8.8	208	1	-
Vert.	6612.000	PK	50.33	34.31	-33.36	-	2.10	53.38	-41.85	-27.0	14.8	194	337	-
Vert.	16530.000	PK	46.25	39.83	-25.44	-	-9.54	51.10	-44.13	-27.0	17.1	150	0	-

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

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

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

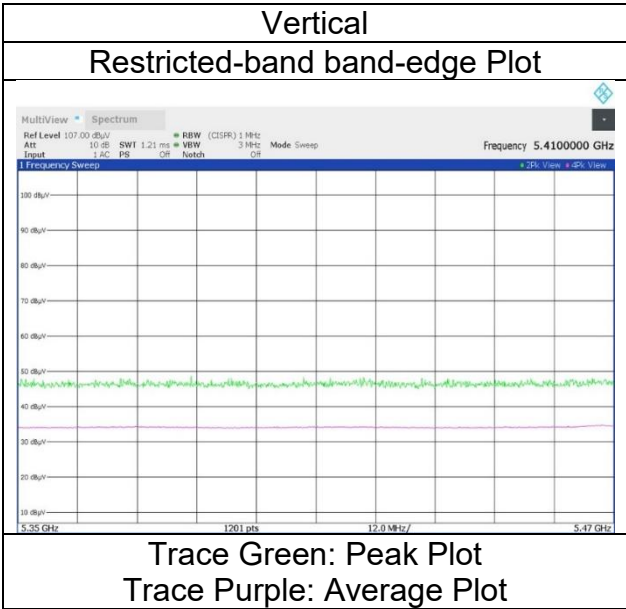
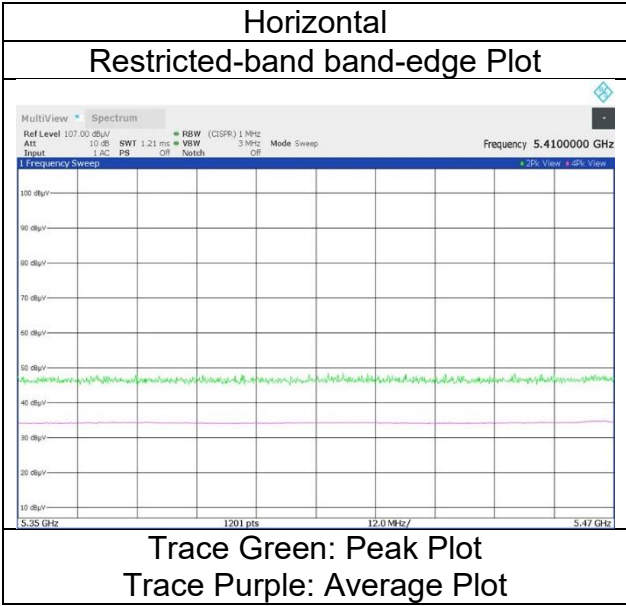
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40(OFDM) 5510 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 13, 2024	March 18, 2024	March 19, 2024
Temperature / Humidity	19 deg. C / 40 % RH	20 deg. C / 32 % RH	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki	Miku Ikudome	Miku Ikudome
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5550 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11100.000	PK	47.12	37.46	-28.70	-	-9.54	46.34	73.9	27.5	161	307	-
Hori.	11100.000	AV	33.06	37.46	-28.70	-	-9.54	32.28	53.9	21.6	161	307	VBW:200 Hz
Vert.	11100.000	PK	46.97	37.46	-28.70	-	-9.54	46.19	73.9	27.7	167	308	-
Vert.	11100.000	AV	32.88	37.46	-28.70	-	-9.54	32.10	53.9	21.8	167	308	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6660.000	PK	50.10	34.33	-33.37	-	2.10	53.16	-42.07	-27.0	15.0	212	47	-
Hori.	16650.000	PK	47.32	39.59	-25.22	-	-9.54	52.15	-43.08	-27.0	16.0	150	0	-
Vert.	6660.000	PK	49.74	34.33	-33.37	-	2.10	52.80	-42.43	-27.0	15.4	190	335	-
Vert.	16650.000	PK	46.79	39.59	-25.22	-	-9.54	51.62	-43.61	-27.0	16.6	150	0	-

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

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

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

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

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 13, 2024	March 18, 2024	March 19, 2024
Temperature / Humidity	19 deg. C / 40 % RH	20 deg. C / 32 % RH	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki	Miku Ikudome	Miku Ikudome
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5670 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11340.000	PK	47.31	37.87	-28.25	-	-9.54	47.39	73.9	26.5	174	311	-
Hori.	11340.000	AV	32.07	37.87	-28.25	-	-9.54	32.15	53.9	21.7	174	311	VBW:200 Hz
Vert.	11340.000	PK	47.28	37.87	-28.25	-	-9.54	47.36	73.9	26.5	154	258	-
Vert.	11340.000	AV	31.99	37.87	-28.25	-	-9.54	32.07	53.9	21.8	154	258	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

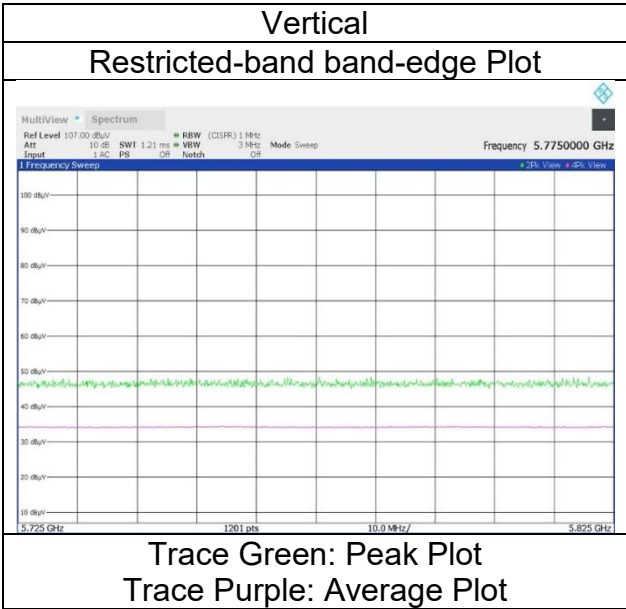
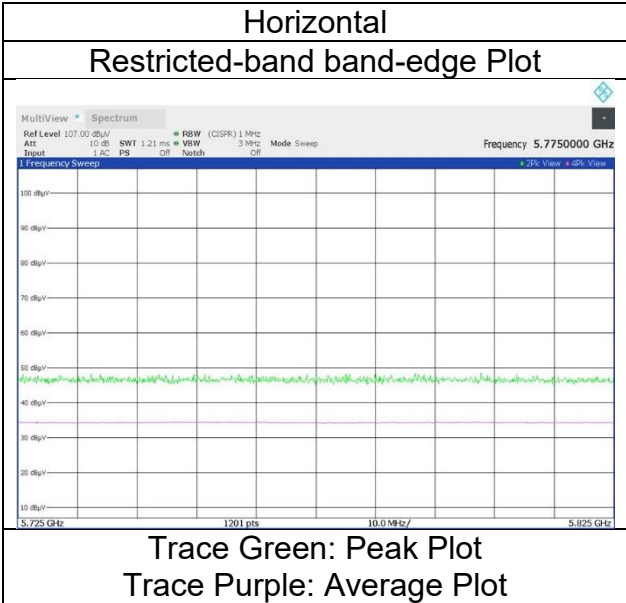
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.51	32.01	-25.06	-	2.10	59.56	-35.67	-27.0	8.6	149	37	-
Hori.	6804.000	PK	48.62	34.59	-33.35	-	2.10	51.96	-43.27	-27.0	16.2	191	47	-
Hori.	17010.000	PK	46.25	39.71	-24.58	-	-9.54	51.84	-43.39	-27.0	16.3	150	0	-
Vert.	5725.000	PK	50.09	32.01	-25.06	-	2.10	59.14	-36.09	-27.0	9.0	117	34	-
Vert.	6804.000	PK	49.73	34.59	-33.35	-	2.10	53.07	-42.16	-27.0	15.1	193	337	-
Vert.	17010.000	PK	45.98	39.71	-24.58	-	-9.54	51.57	-43.66	-27.0	16.6	150	0	-

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takahiro Suzuki
Tx 11ax-40(OFDM) 5670 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 19 deg. C / 40 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11510.000	PK	47.06	38.01	-27.96	-	-9.54	47.57	73.9	26.3	168	309	-
Hori.	11510.000	AV	32.68	38.01	-27.96	-	-9.54	33.19	53.9	20.7	168	309	VBW:200 Hz
Vert.	11510.000	PK	47.19	38.01	-27.96	-	-9.54	47.70	73.9	26.2	145	312	-
Vert.	11510.000	AV	32.40	38.01	-27.96	-	-9.54	32.91	53.9	20.9	145	312	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.23	33.01	-25.07	-	2.10	60.27	-34.96	-27.0	7.9	117	33	-
Hori.	5700.000	PK	49.86	33.04	-25.06	-	2.10	59.94	-35.29	10.0	45.2	117	33	-
Hori.	5720.000	PK	50.93	33.06	-25.05	-	2.10	61.04	-34.19	15.6	49.7	117	33	-
Hori.	5725.000	PK	51.95	33.06	-25.06	-	2.10	62.05	-33.18	27.0	60.1	117	33	-
Hori.	6906.000	PK	49.17	35.13	-33.35	-	2.10	53.05	-42.18	-27.0	15.1	209	57	-
Hori.	17265.000	PK	46.64	40.15	-24.39	-	-9.54	52.86	-42.37	-27.0	15.3	150	0	-
Vert.	5650.000	PK	50.01	33.01	-25.07	-	2.10	60.05	-35.18	-27.0	8.1	123	34	-
Vert.	5700.000	PK	50.18	33.04	-25.06	-	2.10	60.26	-34.97	10.0	44.9	123	34	-
Vert.	5720.000	PK	50.47	33.06	-25.05	-	2.10	60.58	-34.65	15.6	50.2	123	34	-
Vert.	5725.000	PK	50.79	33.06	-25.06	-	2.10	60.89	-34.34	27.0	61.3	123	34	-
Vert.	6906.000	PK	49.77	35.13	-33.35	-	2.10	53.65	-41.58	-27.0	14.5	192	337	-
Vert.	17265.000	PK	46.28	40.15	-24.39	-	-9.54	52.50	-42.73	-27.0	15.7	150	0	-

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

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

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

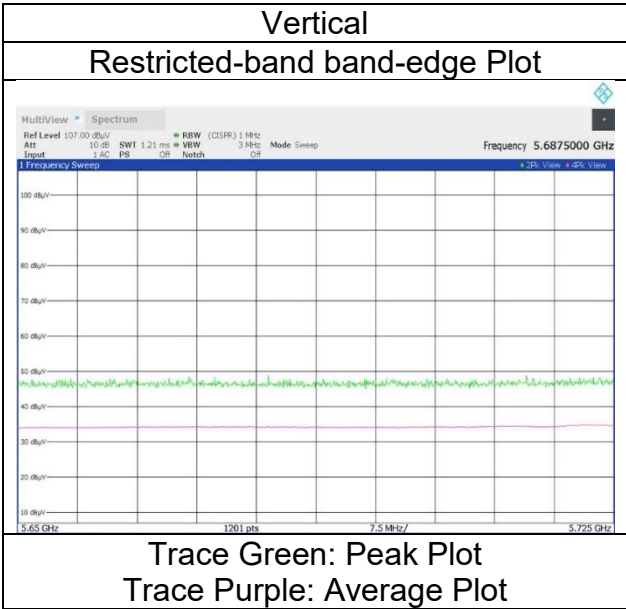
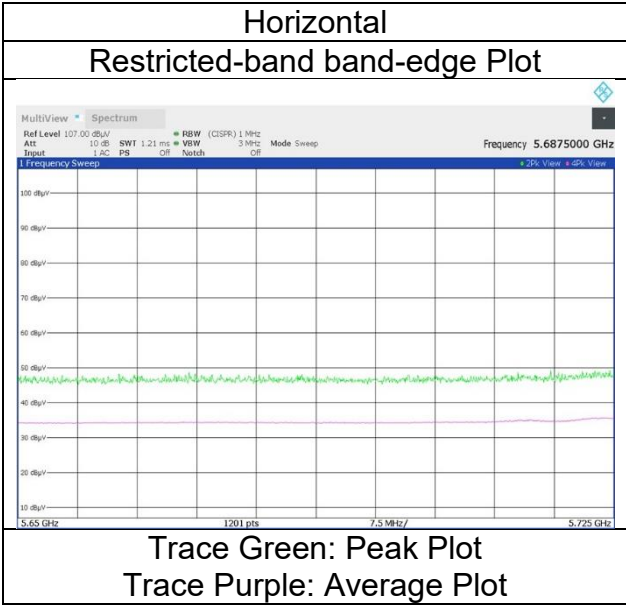
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-40(OFDM) 5755 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date March 13, 2024
Temperature / Humidity 19 deg. C / 40 % RH
Engineer Takahiro Suzuki
Mode Tx 11ax-40(OFDM) 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11590.000	PK	47.20	38.04	-27.99	-	-9.54	47.71	73.9	26.1	167	308	-
Hori.	11590.000	AV	32.85	38.04	-27.99	-	-9.54	33.36	53.9	20.5	167	308	VBW:200 Hz
Vert.	11590.000	PK	46.96	38.04	-27.99	-	-9.54	47.47	73.9	26.4	157	308	-
Vert.	11590.000	AV	32.59	38.04	-27.99	-	-9.54	33.10	53.9	20.8	157	308	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.78	32.33	-25.01	-	2.10	60.20	-35.03	27.0	62.0	140	32	-
Hori.	5855.000	PK	50.35	32.34	-25.00	-	2.10	59.79	-35.44	15.6	51.0	140	32	-
Hori.	5875.000	PK	50.38	32.38	-25.00	-	2.10	59.86	-35.37	10.0	45.3	140	32	-
Hori.	5925.000	PK	50.15	32.46	-24.99	-	2.10	59.72	-35.51	-27.0	8.5	140	32	-
Hori.	6954.000	PK	48.56	35.41	-33.34	-	2.10	52.73	-42.50	-27.0	15.5	219	56	-
Hori.	17385.000	PK	46.80	40.25	-24.32	-	-9.54	53.19	-42.04	-27.0	15.0	150	0	-
Vert.	5850.000	PK	49.98	32.33	-25.01	-	2.10	59.40	-35.83	27.0	62.8	120	34	-
Vert.	5855.000	PK	49.75	32.34	-25.00	-	2.10	59.19	-36.04	15.6	51.6	120	34	-
Vert.	5875.000	PK	50.41	32.38	-25.00	-	2.10	59.89	-35.34	10.0	45.3	120	34	-
Vert.	5925.000	PK	49.65	32.46	-24.99	-	2.10	59.22	-36.01	-27.0	9.0	120	34	-
Vert.	6954.000	PK	48.60	35.41	-33.34	-	2.10	52.77	-42.46	-27.0	15.4	209	338	-
Vert.	17385.000	PK	46.62	40.25	-24.32	-	-9.54	53.01	-42.22	-27.0	15.2	150	0	-

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

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

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

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

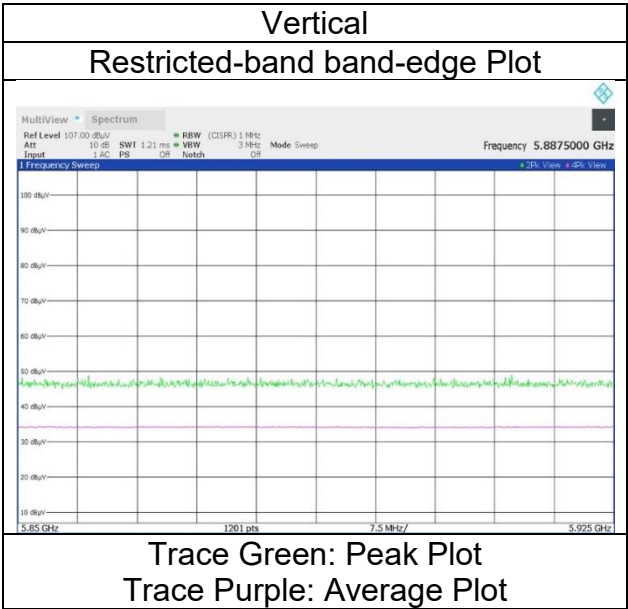
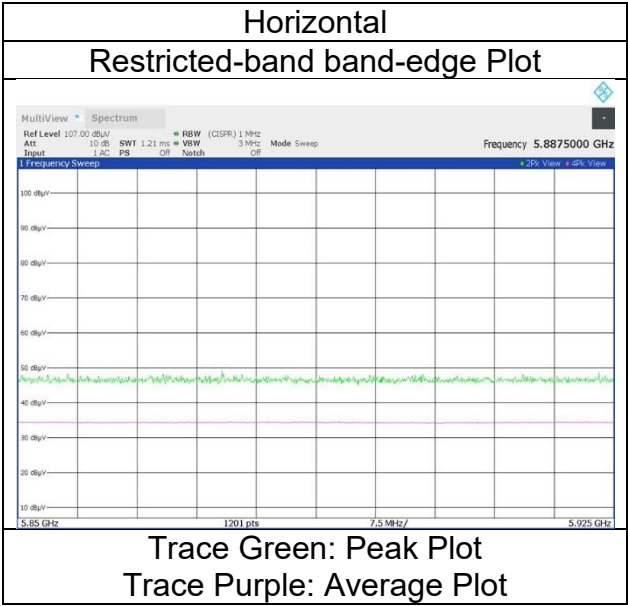
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takahiro Suzuki
Tx 11ax-40(OFDM) 5795 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.11	32.09	-25.53	-	2.10	57.77	73.9	16.1	121	42	-
Hori.	5150.000	AV	35.10	32.09	-25.53	-	2.10	43.76	53.9	10.1	121	42	VBW: 1 kHz
Vert.	5150.000	PK	49.25	31.86	-25.53	-	2.10	57.68	73.9	16.2	151	352	-
Vert.	5150.000	AV	35.51	31.86	-25.53	-	2.10	43.94	53.9	9.9	151	352	VBW: 1 kHz

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

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

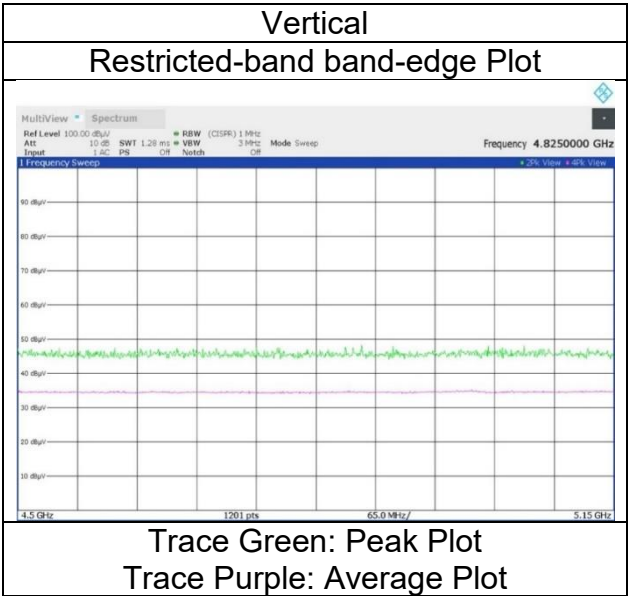
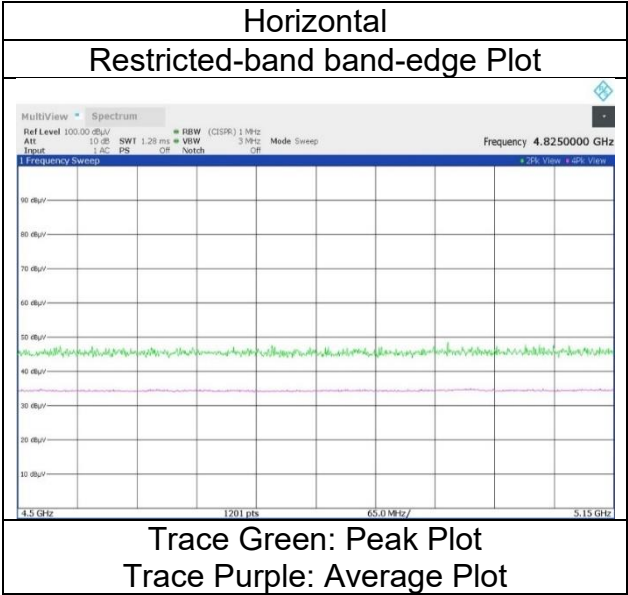
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5190 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 17
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.70	31.84	-25.29	-	2.10	57.35	73.9	16.5	147	47	-
Hori.	5350.000	AV	34.79	31.84	-25.29	-	2.10	43.44	53.9	10.4	147	47	VBW: 1 kHz
Vert.	5350.000	PK	48.40	31.58	-25.29	-	2.10	56.79	73.9	17.1	149	354	-
Vert.	5350.000	AV	35.42	31.58	-25.29	-	2.10	43.81	53.9	10.0	149	354	VBW: 1 kHz

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

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

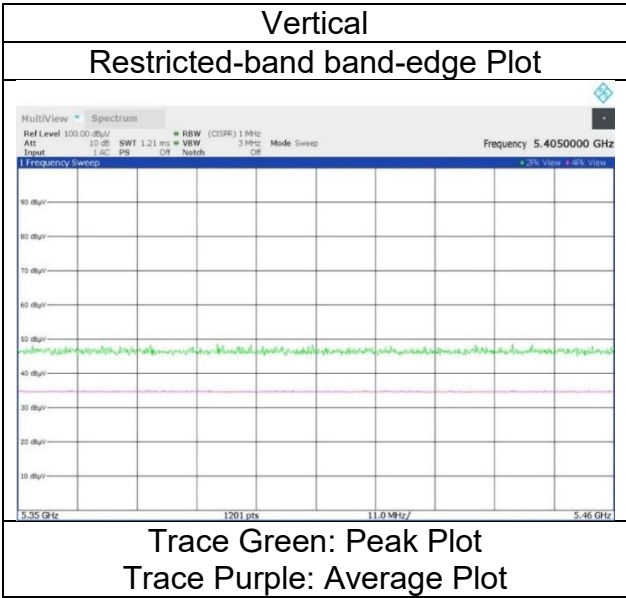
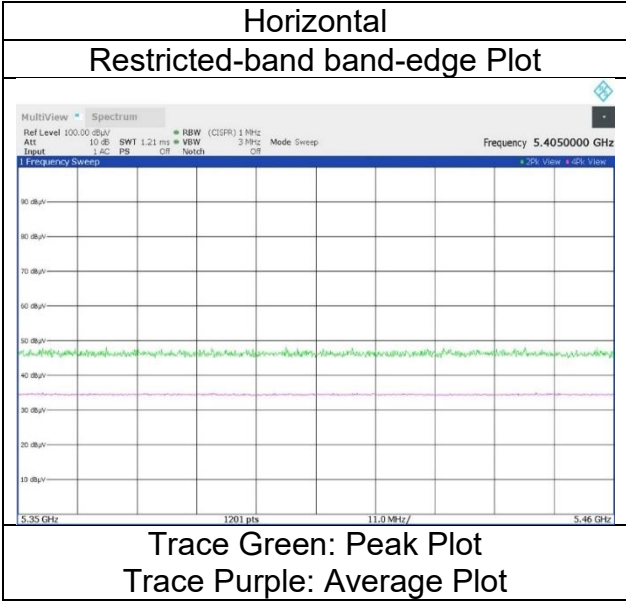
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5310 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 17



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5510 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.23	32.06	-25.16	-	2.10	57.23	73.9	16.6	144	42	-
Hori.	5460.000	AV	34.90	32.06	-25.16	-	2.10	43.90	53.9	10.0	144	42	VBW: 1 kHz
Vert.	5460.000	PK	50.92	31.78	-25.16	-	2.10	59.64	73.9	14.2	147	341	-
Vert.	5460.000	AV	36.59	31.78	-25.16	-	2.10	45.31	53.9	8.5	147	341	VBW: 1 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.84	32.07	-25.15	-	2.10	56.86	-38.37	-27.0	11.3	144	42	-
Vert.	5470.000	PK	50.16	31.79	-25.15	-	2.10	58.90	-36.33	-27.0	9.3	147	341	-

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

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

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

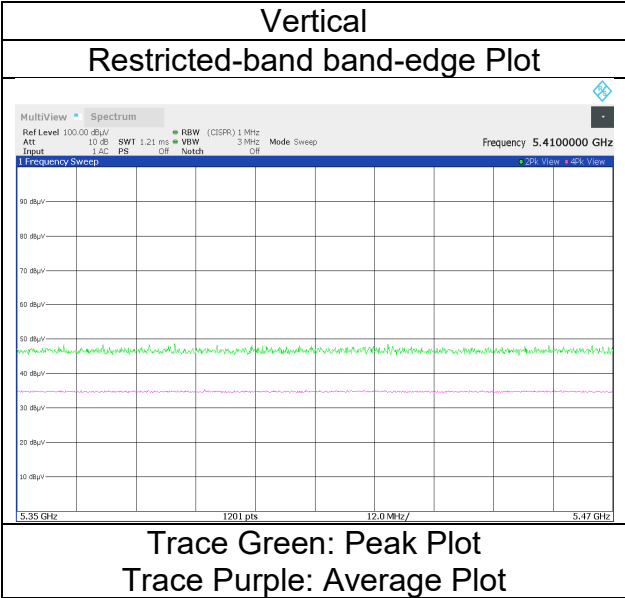
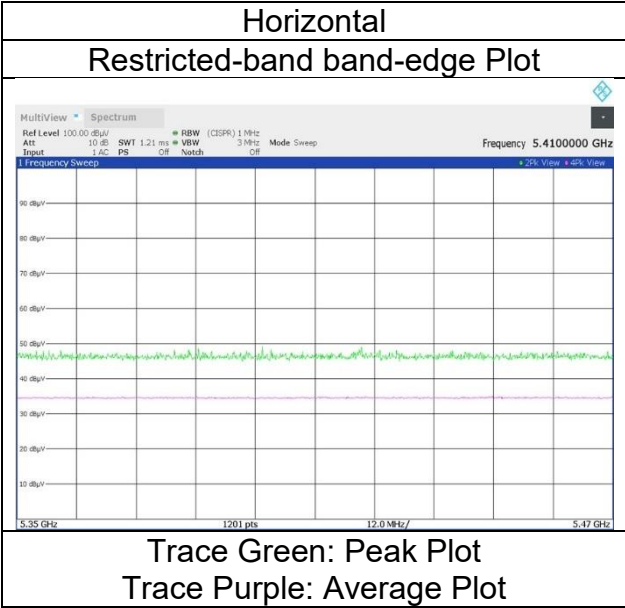
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5510 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 26-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.88	32.41	-25.06		2.10	57.33	-37.90	-27.0	10.9	145	36	-
Vert.	5725.000	PK	48.81	32.01	-25.06		2.10	57.86	-37.37	-27.0	10.3	151	332	-

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

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

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

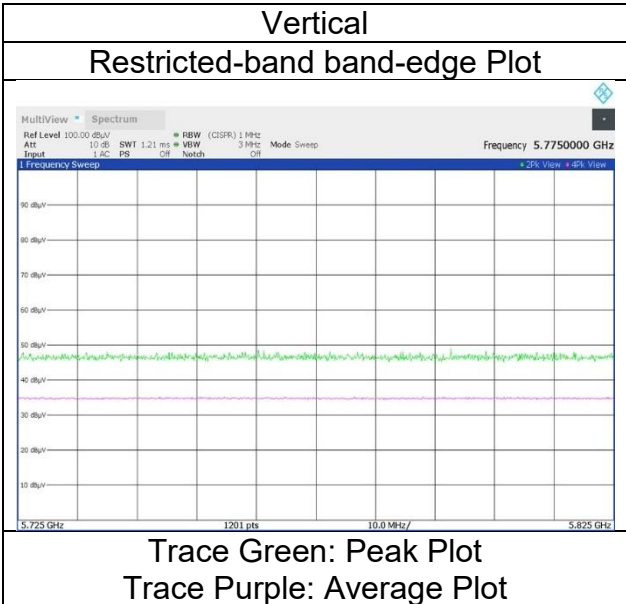
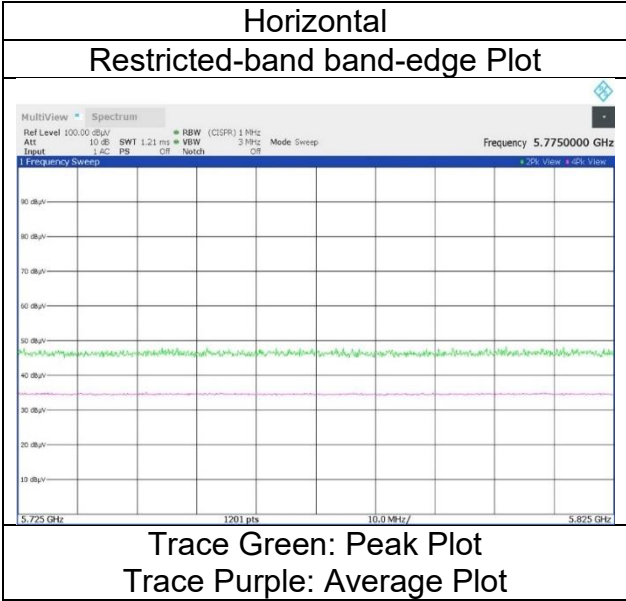
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 17



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(Calculation) (above 1 GHz Outside of the restricted band)

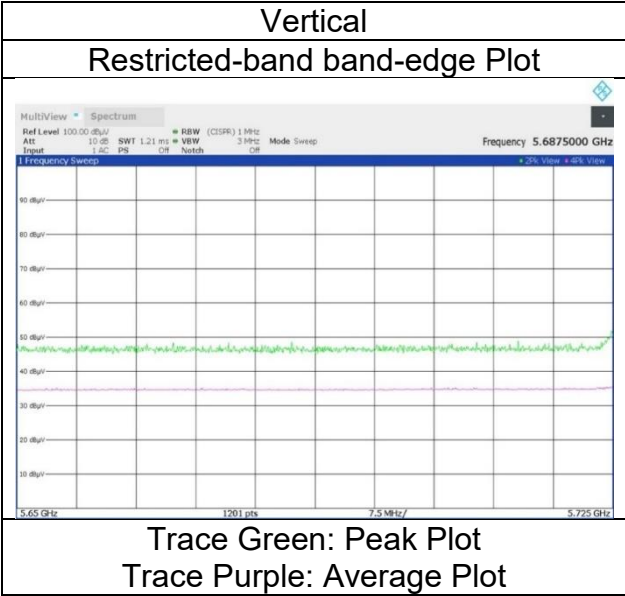
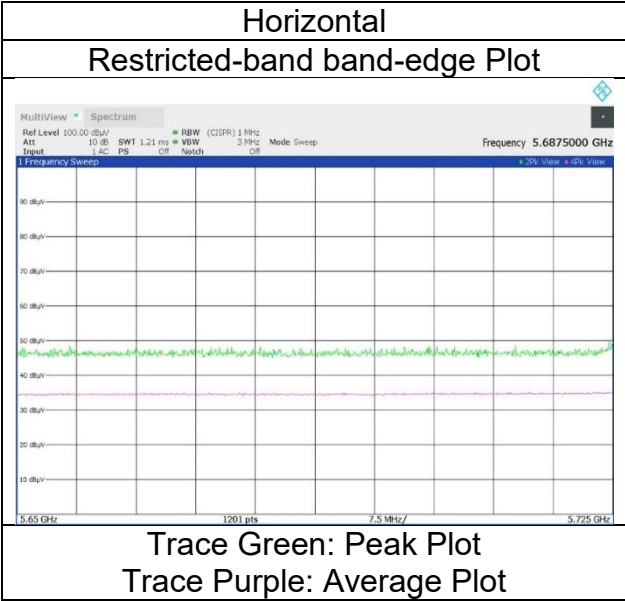
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.44	32.19	-25.07	-	2.10	57.66	-37.57	-27.0	10.5	144	28	-
Hori.	5700.000	PK	47.95	32.33	-25.06	-	2.10	57.32	-37.91	10.0	47.9	144	28	-
Hori.	5720.000	PK	48.51	32.40	-25.05	-	2.10	57.96	-37.27	15.6	52.8	144	28	-
Hori.	5725.000	PK	51.10	32.41	-25.06	-	2.10	60.55	-34.68	27.0	61.6	144	28	-
Vert.	5650.000	PK	48.48	31.84	-25.07	-	2.10	57.35	-37.88	-27.0	10.8	146	340	-
Vert.	5700.000	PK	48.60	31.95	-25.06	-	2.10	57.59	-37.64	10.0	47.6	146	340	-
Vert.	5720.000	PK	51.86	31.99	-25.05	-	2.10	60.90	-34.33	15.6	49.9	146	340	-
Vert.	5725.000	PK	53.42	32.01	-25.06	-	2.10	62.47	-32.76	27.0	59.7	146	340	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5755 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 17
(Calculation) (above 1 GHz Outside of the restricted band)

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

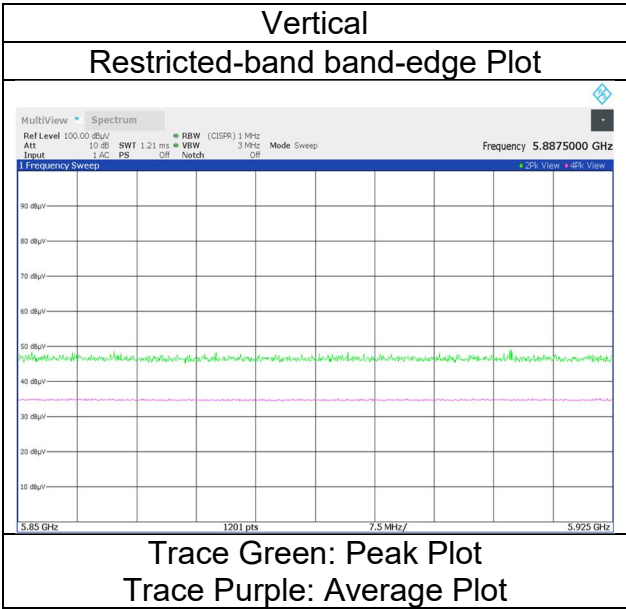
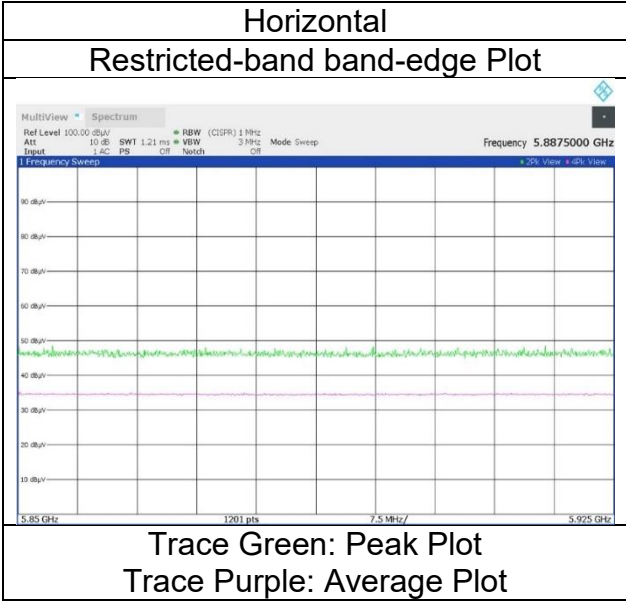
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.40	32.76	-25.01	-	2.10	58.25	-36.98	27.0	63.9	145	24	-
Hori.	5855.000	PK	47.92	32.77	-25.00	-	2.10	57.79	-37.44	15.6	53.0	145	24	-
Hori.	5875.000	PK	48.77	32.81	-25.00	-	2.10	58.68	-36.55	10.0	46.5	145	24	-
Hori.	5925.000	PK	47.92	32.88	-24.99	-	2.10	57.91	-37.32	-27.0	10.3	145	24	-
Vert.	5850.000	PK	48.96	32.33	-25.01	-	2.10	58.38	-36.85	27.0	63.8	144	334	-
Vert.	5855.000	PK	48.25	32.34	-25.00	-	2.10	57.69	-37.54	15.6	53.1	144	334	-
Vert.	5875.000	PK	48.43	32.38	-25.00	-	2.10	57.91	-37.32	10.0	47.3	144	334	-
Vert.	5925.000	PK	48.40	32.46	-24.99	-	2.10	57.97	-37.26	-27.0	10.2	144	334	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 26-tone 5795 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 17



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 37
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.28	32.09	-25.53		2.10	56.94	73.9	16.9	150	41	-
Hori.	5150.000	AV	35.57	32.09	-25.53		2.10	44.23	53.9	9.6	150	41	VBW: 2 kHz
Vert.	5150.000	PK	48.52	31.86	-25.53		2.10	56.95	73.9	16.9	134	351	-
Vert.	5150.000	AV	36.22	31.86	-25.53		2.10	44.65	53.9	9.2	134	351	VBW: 2 kHz

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

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

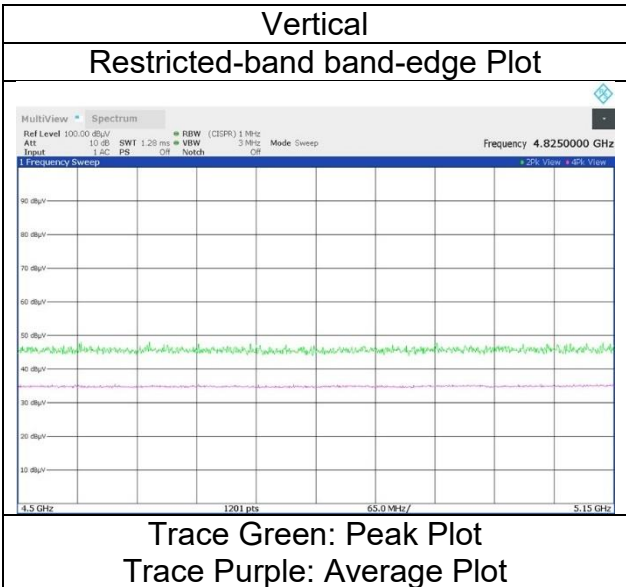
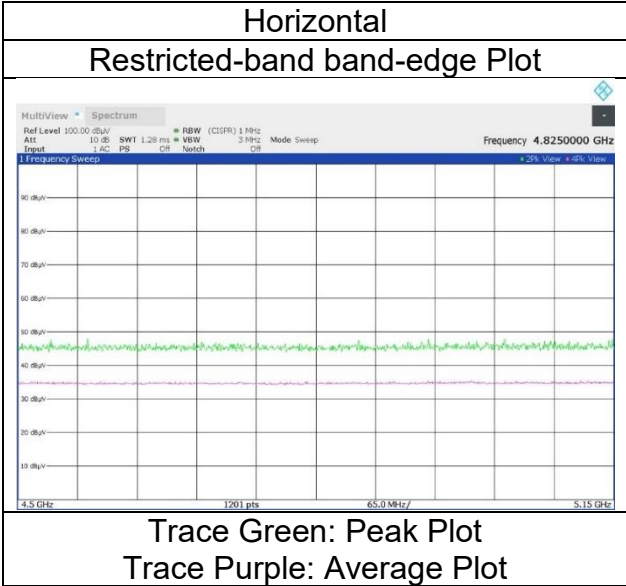
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 52-tone 5190 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 44
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.79	31.84	-25.29	-	2.10	57.44	73.9	16.4	148	47	-
Hori.	5350.000	AV	35.51	31.84	-25.29	-	2.10	44.16	53.9	9.7	148	47	VBW: 2 kHz
Vert.	5350.000	PK	40.24	31.58	-25.29	-	2.10	48.63	73.9	25.2	149	331	-
Vert.	5350.000	AV	37.27	31.58	-25.29	-	2.10	45.66	53.9	8.2	149	331	VBW: 2 kHz

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

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

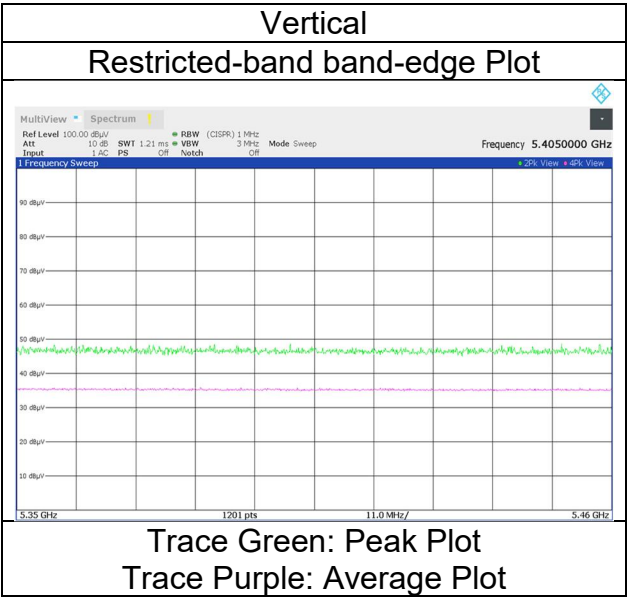
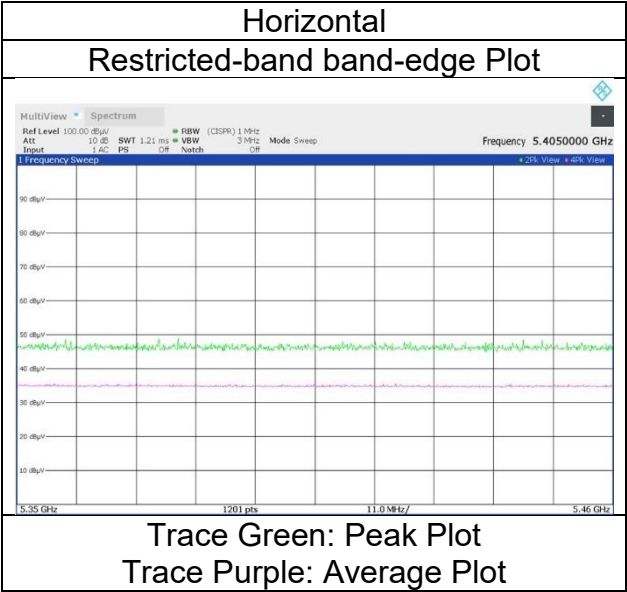
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 52-tone 5310 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 44



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5510 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 37
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.19	32.06	-25.16	-	2.10	57.19	73.9	16.7	144	42	-
Hori.	5460.000	AV	35.35	32.06	-25.16	-	2.10	44.35	53.9	9.5	144	42	VBW: 2 kHz
Vert.	5460.000	PK	48.55	31.78	-25.16	-	2.10	57.27	73.9	16.6	144	337	-
Vert.	5460.000	AV	35.71	31.78	-25.16	-	2.10	44.43	53.9	9.4	144	337	VBW: 2 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.34	32.07	-25.15	-	2.10	57.36	-37.87	-27.0	10.8	144	42	-
Vert.	5470.000	PK	48.80	31.79	-25.15	-	2.10	57.54	-37.69	-27.0	10.6	144	337	-

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

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

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

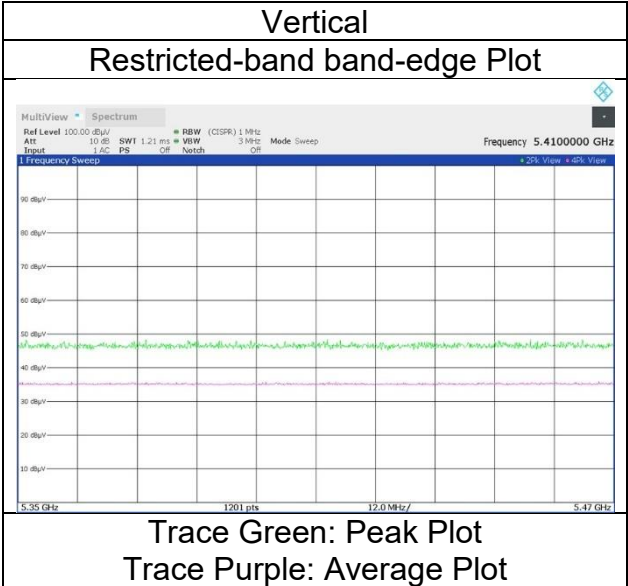
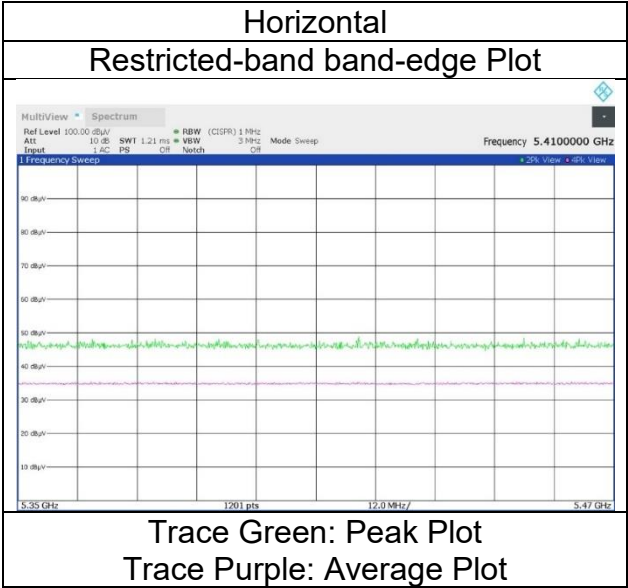
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Antenna type	Tx 11ax-40(OFDMA) 52-tone 5510 MHz	
	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 44
(Calculation) (above 1 GHz Outside of the restricted band)

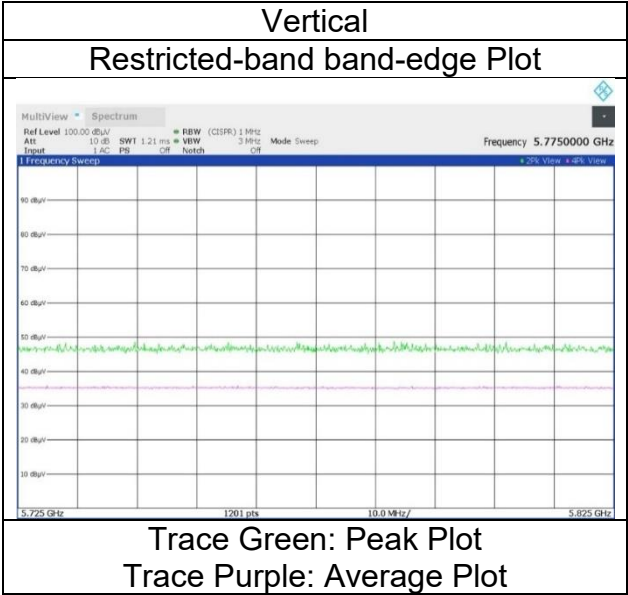
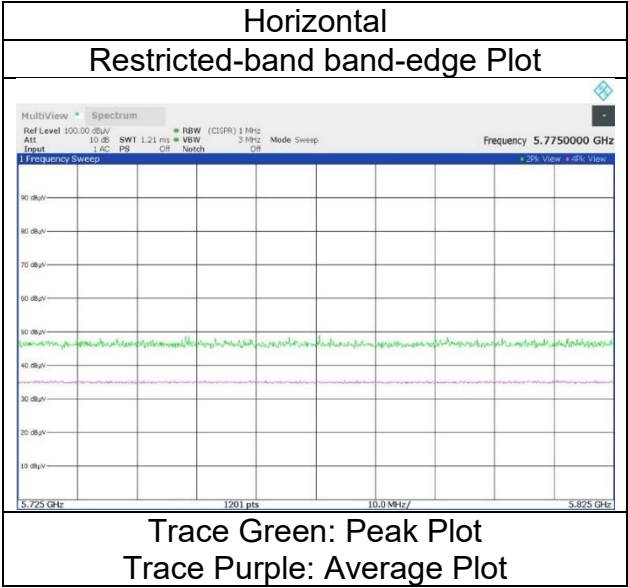
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.02	32.41	-25.06	-	2.10	58.47	-36.76	-27.0	9.7	148	24	-
Vert.	5725.000	PK	48.46	32.01	-25.06	-	2.10	57.51	-37.72	-27.0	10.7	152	332	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 52-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 44



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 37
(Calculation) (above 1 GHz Outside of the restricted band)

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

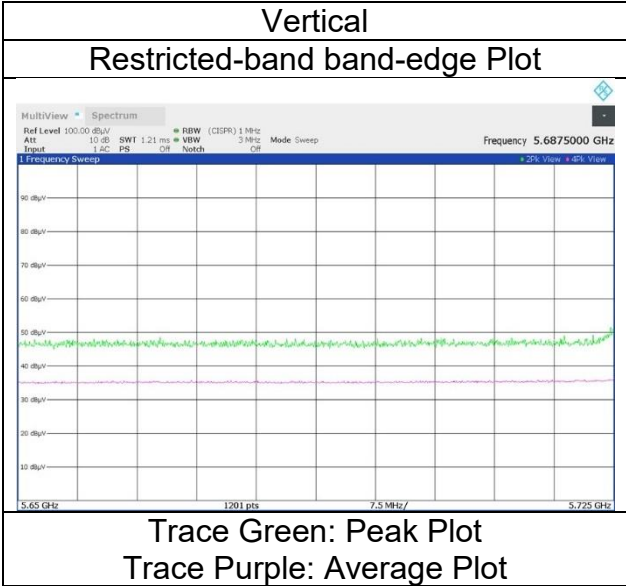
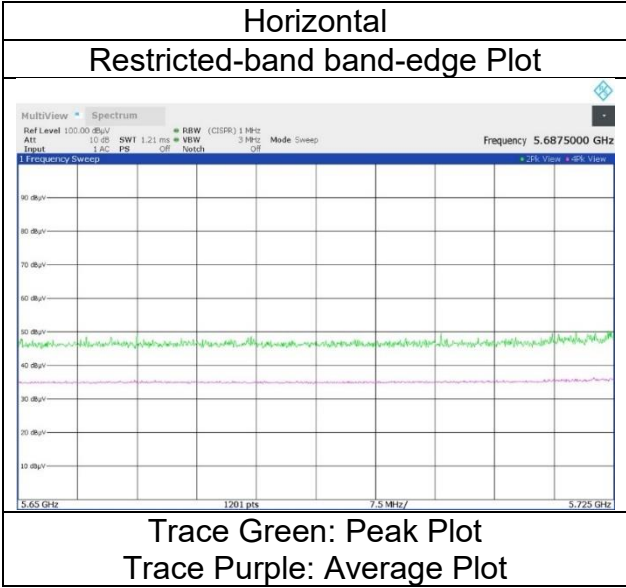
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.02	32.19	-25.07	-	2.10	57.24	-37.99	-27.0	10.9	148	24	-
Hori.	5700.000	PK	48.18	32.33	-25.06	-	2.10	57.55	-37.68	10.0	47.6	148	24	-
Hori.	5720.000	PK	50.12	32.40	-25.05	-	2.10	59.57	-35.66	15.6	51.2	148	24	-
Hori.	5725.000	PK	51.53	32.41	-25.06	-	2.10	60.98	-34.25	27.0	61.2	148	24	-
Vert.	5650.000	PK	48.46	31.84	-25.07	-	2.10	57.33	-37.90	-27.0	10.9	150	339	-
Vert.	5700.000	PK	48.30	31.95	-25.06	-	2.10	57.29	-37.94	10.0	47.9	150	339	-
Vert.	5720.000	PK	48.67	31.99	-25.05	-	2.10	57.71	-37.52	15.6	53.1	150	339	-
Vert.	5725.000	PK	52.39	32.01	-25.06	-	2.10	61.44	-33.79	27.0	60.7	150	339	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 52-tone 5755 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 44
(Calculation) (above 1 GHz Outside of the restricted band)

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

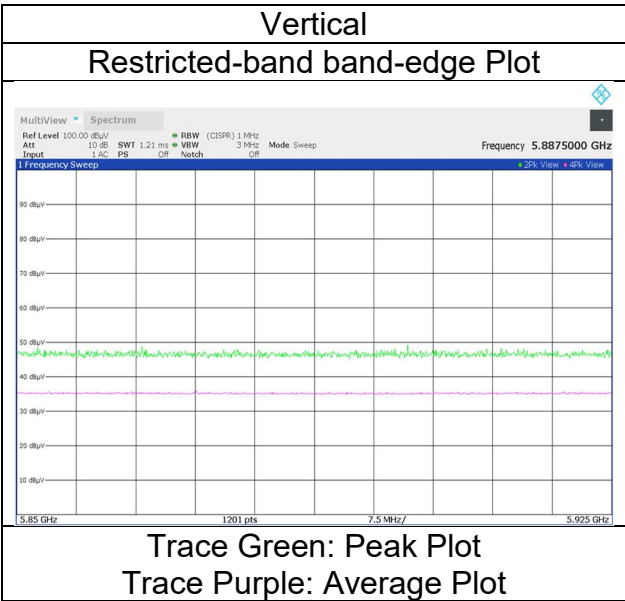
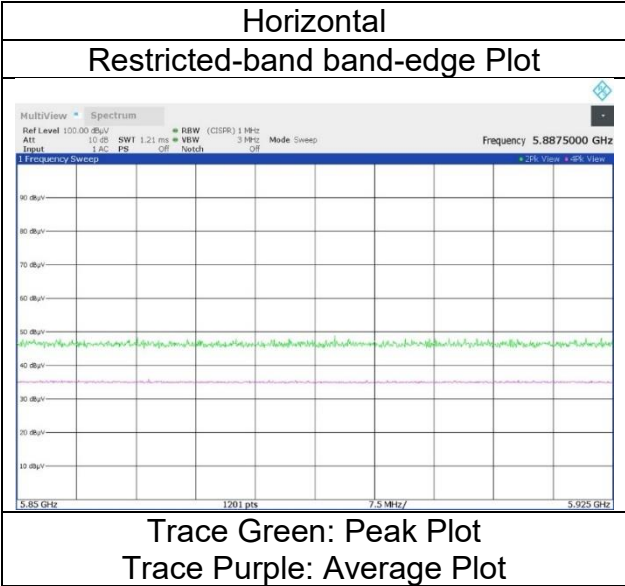
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.13	32.76	-25.01	-	2.10	57.98	-37.25	27.0	64.2	137	25	-
Hori.	5855.000	PK	48.02	32.77	-25.00	-	2.10	57.89	-37.34	15.6	52.9	137	25	-
Hori.	5875.000	PK	48.87	32.81	-25.00	-	2.10	58.78	-36.45	10.0	46.4	137	25	-
Hori.	5925.000	PK	48.25	32.88	-24.99	-	2.10	58.24	-36.99	-27.0	9.9	137	25	-
Vert.	5850.000	PK	48.30	32.33	-25.01	-	2.10	57.72	-37.51	27.0	64.5	149	349	-
Vert.	5855.000	PK	48.11	32.34	-25.00	-	2.10	57.55	-37.68	15.6	53.2	149	349	-
Vert.	5875.000	PK	48.25	32.38	-25.00	-	2.10	57.73	-37.50	10.0	47.5	149	349	-
Vert.	5925.000	PK	48.12	32.46	-24.99	-	2.10	57.69	-37.54	-27.0	10.5	149	349	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 52-tone 5795 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 44



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.61	32.09	-25.53	-	2.10	57.27	73.9	16.6	146	39	-
Hori.	5150.000	AV	34.90	32.09	-25.53	-	2.10	43.56	53.9	10.3	146	39	VBW: 300 Hz
Vert.	5150.000	PK	52.65	31.86	-25.53	-	2.10	61.08	73.9	12.8	157	350	-
Vert.	5150.000	AV	37.27	31.86	-25.53	-	2.10	45.70	53.9	8.2	157	350	VBW: 300 Hz

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

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

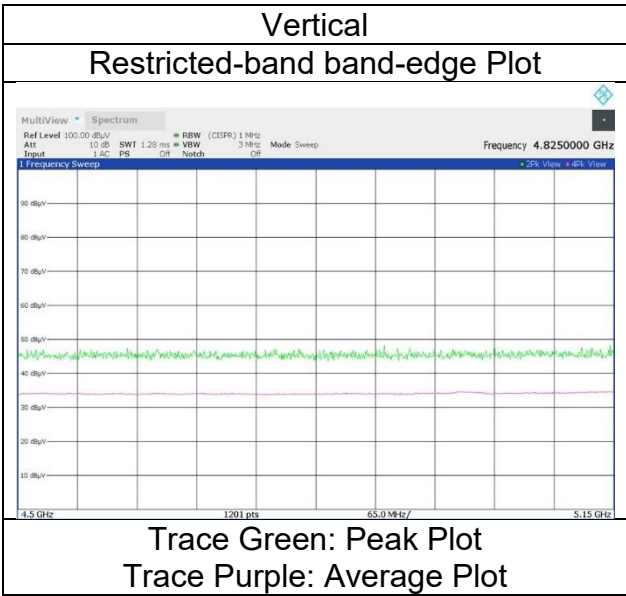
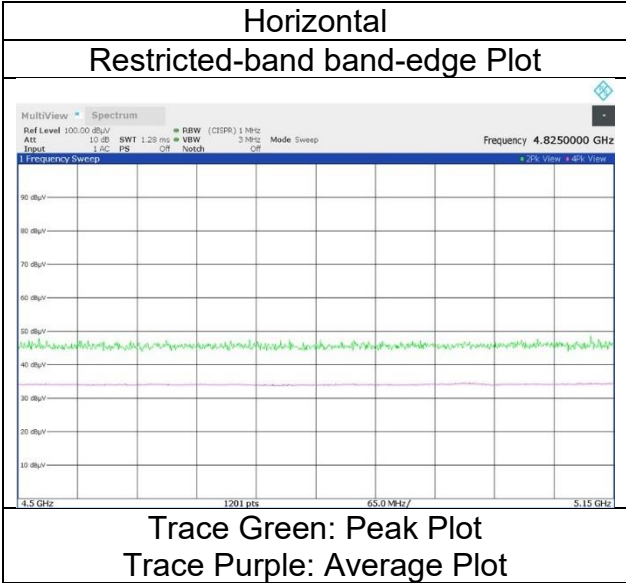
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5190 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
April 27, 2024
22 deg. C / 64 % RH
Hiromasa Sato
(1 GHz to 6.4 GHz)
Tx 11ax-40(OFDMA) 106-tone 5310 MHz
5G_CH 0: monopole 5G_CH 1: slot

WAC1
May 2, 2024
20 deg. C / 67 % RH
Hiromasa Sato
(1 GHz to 6.4 GHz)

Index 56
(above 1 GHz Inside of the restricted band)

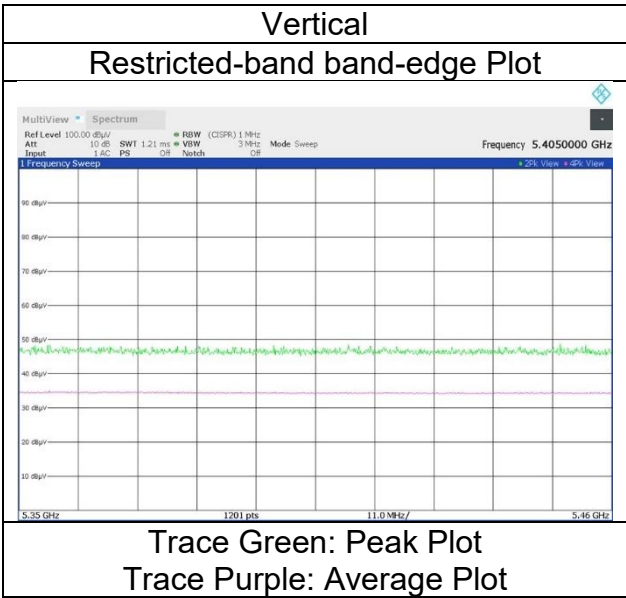
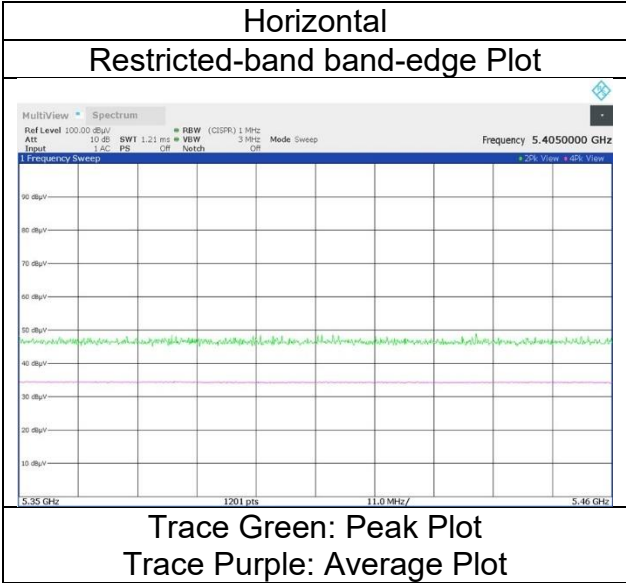
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.75	31.84	-25.29		2.10	57.40	73.9	16.5	132	37	-
Hori.	5350.000	AV	34.62	31.84	-25.29		2.10	43.27	53.9	10.6	132	37	VBW: 300 Hz
Vert.	5350.000	PK	48.94	31.58	-25.29		2.10	57.33	73.9	16.5	148	339	-
Vert.	5350.000	AV	34.77	31.58	-25.29		2.10	43.16	53.9	10.7	148	339	VBW: 300 Hz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5310 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 56



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5510 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.47	32.06	-25.16	-	2.10	57.47	73.9	16.4	126	36	-
Hori.	5460.000	AV	34.62	32.06	-25.16	-	2.10	43.62	53.9	10.2	126	36	VBW: 300 Hz
Vert.	5460.000	PK	50.05	31.78	-25.16	-	2.10	58.77	73.9	15.1	149	338	-
Vert.	5460.000	AV	36.13	31.78	-25.16	-	2.10	44.85	53.9	9.0	149	338	VBW: 300 Hz

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

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

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

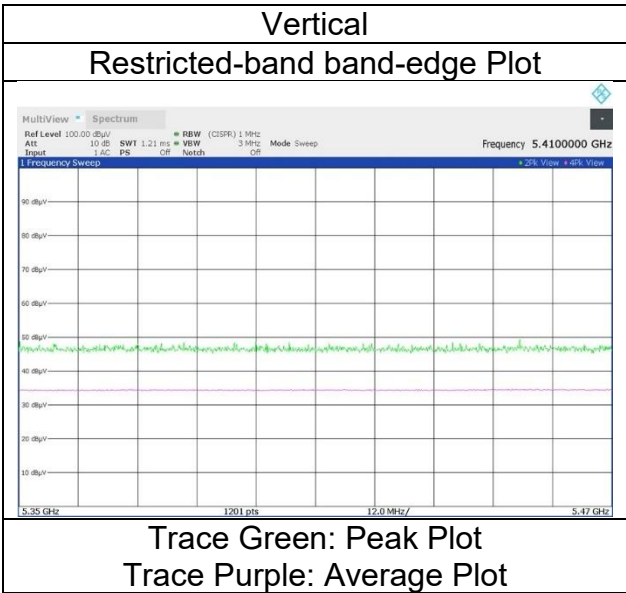
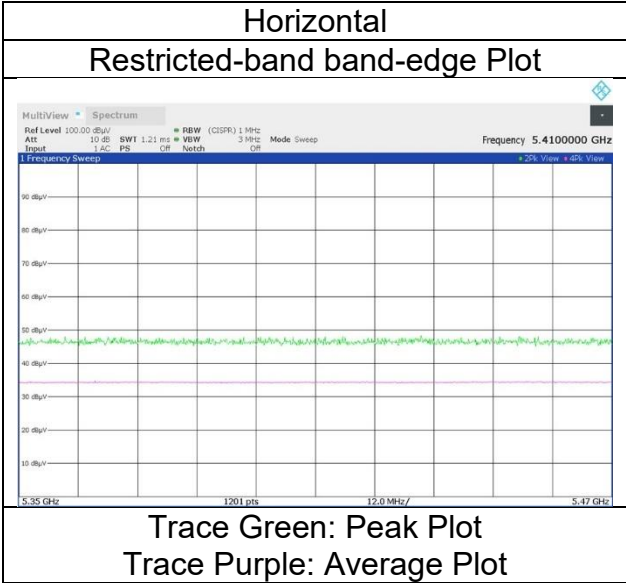
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.95	32.07	-25.15	-	2.10	57.97	-37.26	-27.0	10.2	126	36	-
Vert.	5470.000	PK	50.27	31.79	-25.15	-	2.10	59.01	-36.22	-27.0	9.2	149	338	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5510 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 56
(Calculation) (above 1 GHz Outside of the restricted band)

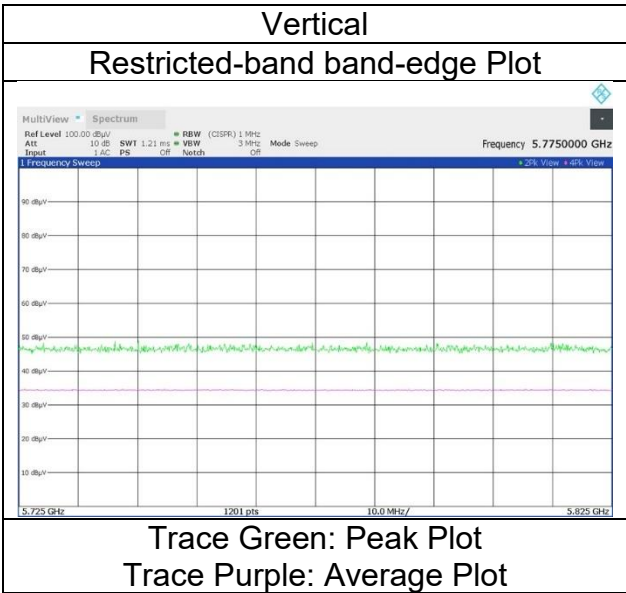
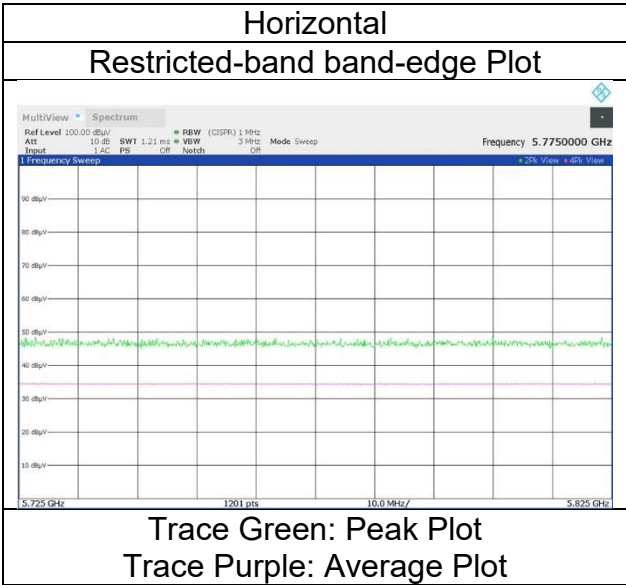
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.28	32.41	-25.06	-	2.10	57.73	-37.50	-27.0	10.5	134	26	-
Vert.	5725.000	PK	48.75	32.01	-25.06	-	2.10	57.80	-37.43	-27.0	10.4	150	341	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 56



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(Calculation) (above 1 GHz Outside of the restricted band)

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

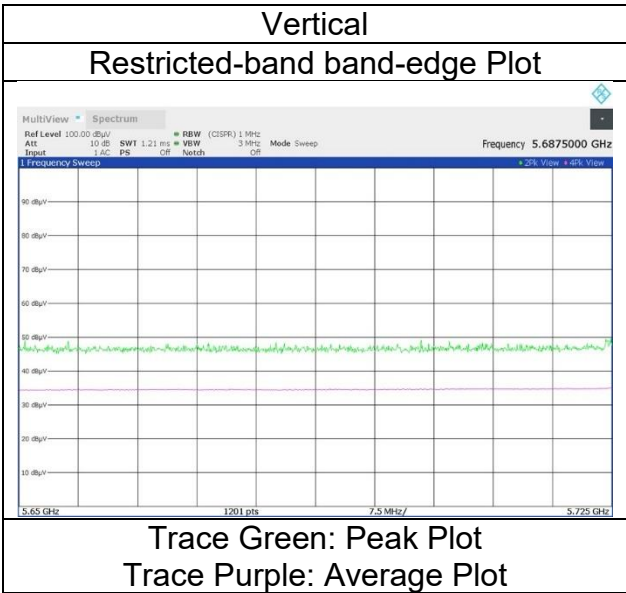
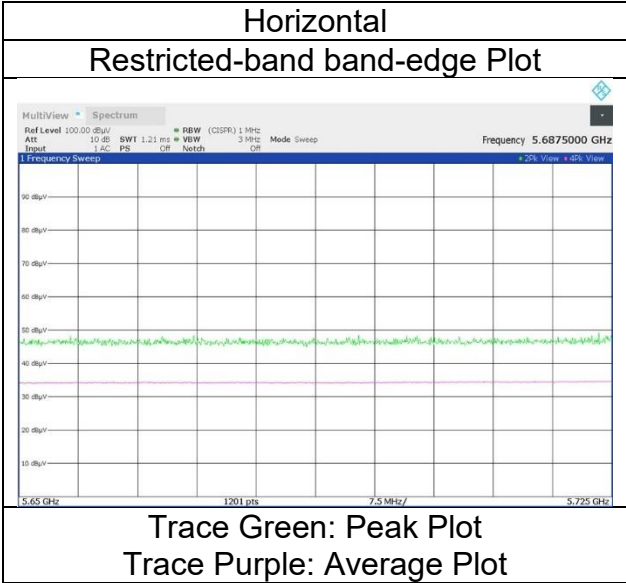
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.46	32.19	-25.07	-	2.10	57.68	-37.55	-27.0	10.5	144	29	-
Hori.	5700.000	PK	48.62	32.33	-25.06	-	2.10	57.99	-37.24	10.0	47.2	144	29	-
Hori.	5720.000	PK	48.14	32.40	-25.05	-	2.10	57.59	-37.64	15.6	53.2	144	29	-
Hori.	5725.000	PK	51.30	32.41	-25.06	-	2.10	60.75	-34.48	27.0	61.4	144	29	-
Vert.	5650.000	PK	48.26	31.84	-25.07	-	2.10	57.13	-38.10	-27.0	11.1	145	322	-
Vert.	5700.000	PK	48.58	31.95	-25.06	-	2.10	57.57	-37.66	10.0	47.6	145	322	-
Vert.	5720.000	PK	48.32	31.99	-25.05	-	2.10	57.36	-37.87	15.6	53.4	145	322	-
Vert.	5725.000	PK	52.20	32.01	-25.06	-	2.10	61.25	-33.98	27.0	60.9	145	322	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5755 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 2, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 67 % RH
Engineer Hiromasa Sato Hiromasa Sato
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 56
(Calculation) (above 1 GHz Outside of the restricted band)

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

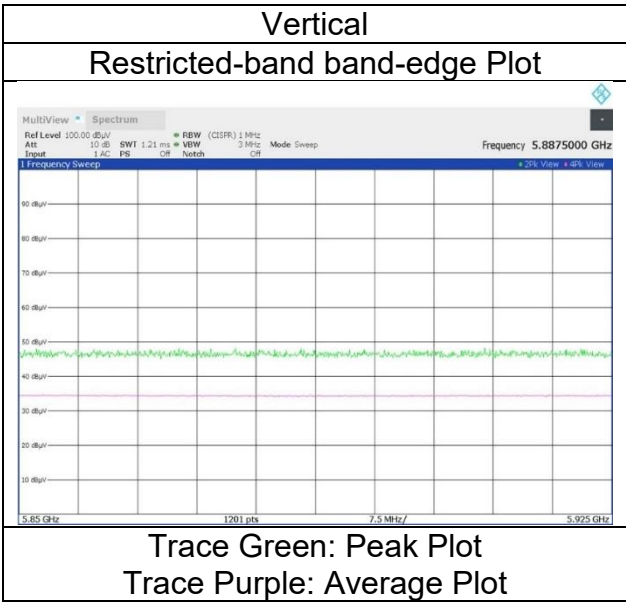
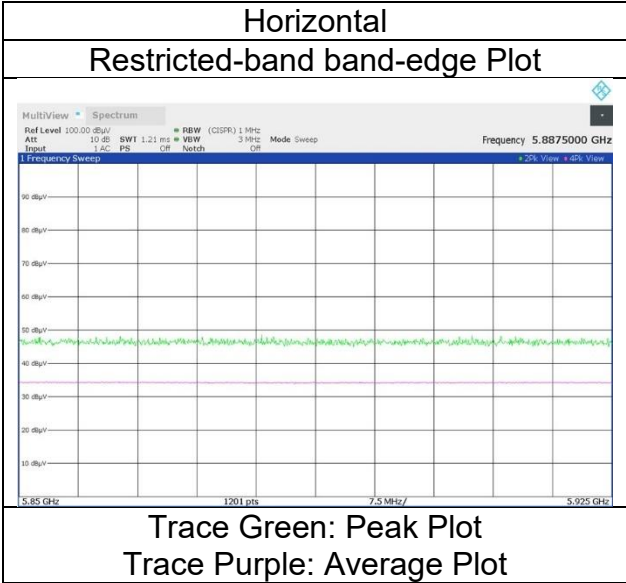
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.22	32.76	-25.01	-	2.10	58.07	-37.16	27.0	64.1	140	29	-
Hori.	5855.000	PK	48.76	32.77	-25.00	-	2.10	58.63	-36.60	15.6	52.2	140	29	-
Hori.	5875.000	PK	48.04	32.81	-25.00	-	2.10	57.95	-37.28	10.0	47.2	140	29	-
Hori.	5925.000	PK	48.22	32.88	-24.99	-	2.10	58.21	-37.02	-27.0	10.0	140	29	-
Vert.	5850.000	PK	48.73	32.33	-25.01	-	2.10	58.15	-37.08	27.0	64.0	147	342	-
Vert.	5855.000	PK	48.26	32.34	-25.00	-	2.10	57.70	-37.53	15.6	53.1	147	342	-
Vert.	5875.000	PK	48.40	32.38	-25.00	-	2.10	57.88	-37.35	10.0	47.3	147	342	-
Vert.	5925.000	PK	48.62	32.46	-24.99	-	2.10	58.19	-37.04	-27.0	10.0	147	342	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 2, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 67 % RH
Engineer	Hiromasa Sato	Hiromasa Sato
Mode	Tx 11ax-40(OFDMA) 106-tone 5795 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 56



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
	(1 GHz to 6.4 GHz)	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 242-tone 5190 MHz	
Antenna type	5G CH 0: monopole 5G CH 1: slot	

Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.80	32.09	-25.53	-	2.10	57.46	73.9	16.4	126	39	-
Hori.	5150.000	AV	35.88	32.09	-25.53	-	2.10	44.54	53.9	9.3	126	39	VBW: 1 kHz
Vert.	5150.000	PK	50.29	31.86	-25.53	-	2.10	58.72	73.9	15.1	146	351	-
Vert.	5150.000	AV	36.83	31.86	-25.53	-	2.10	45.26	53.9	8.6	146	351	VBW: 1 kHz

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

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

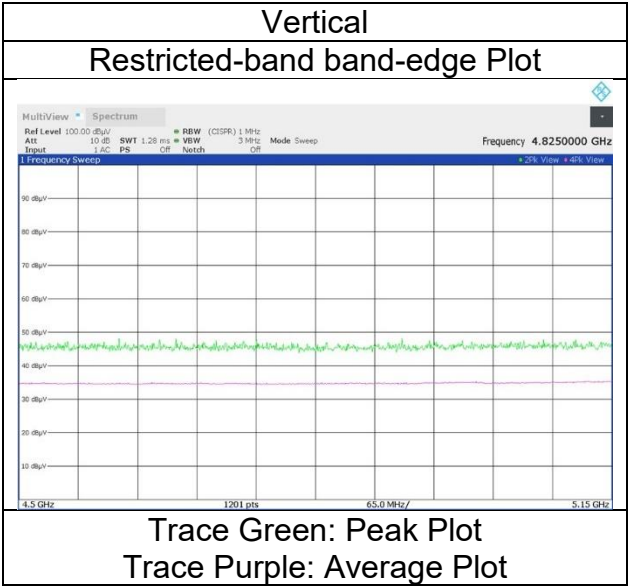
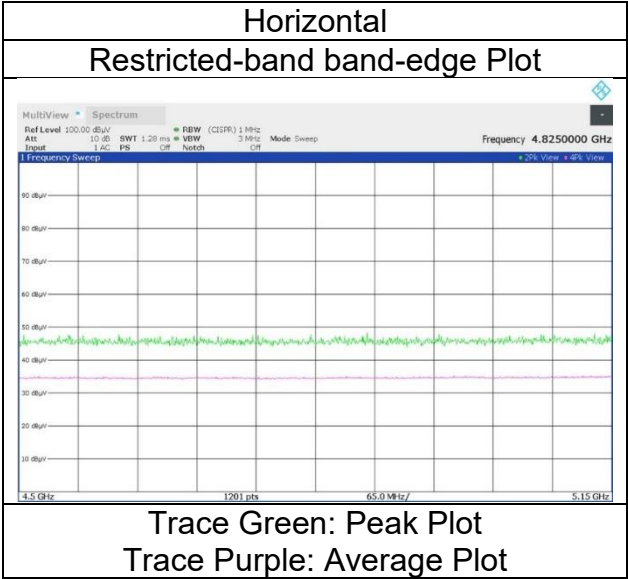
Distance factor : 1 GHz - 10 GHz : $20\log(3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5190 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 62
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.35	31.84	-25.29		2.10	57.00	73.9	16.9	112	38	-
Hori.	5350.000	AV	36.52	31.84	-25.29		2.10	45.17	53.9	8.7	112	38	VBW: 1 kHz
Vert.	5350.000	PK	50.43	31.58	-25.29		2.10	58.82	73.9	15.0	148	335	-
Vert.	5350.000	AV	36.60	31.58	-25.29		2.10	44.99	53.9	8.9	148	335	VBW: 1 kHz

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

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

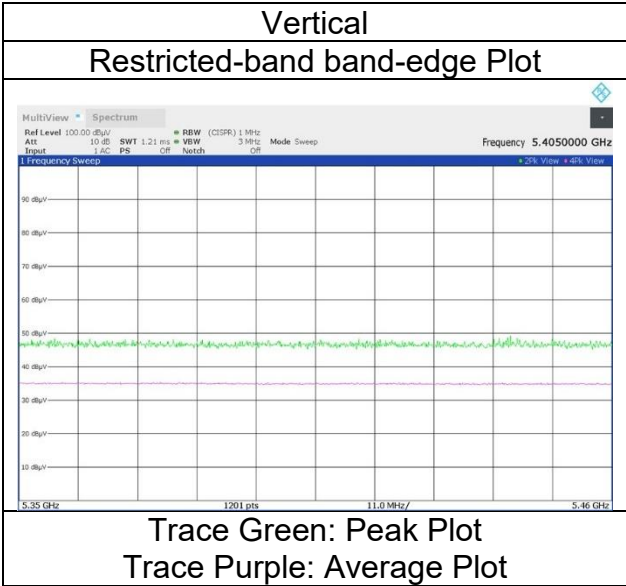
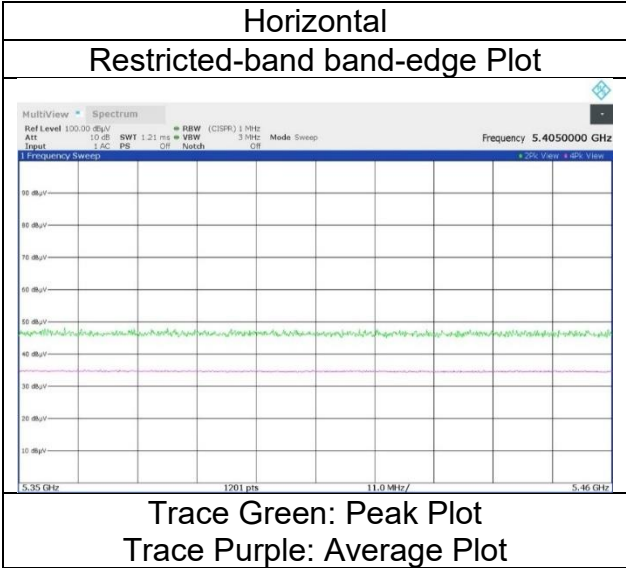
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5310 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 62



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5510 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.72	32.06	-25.16	-	2.10	56.72	73.9	17.1	129	39	-
Hori.	5460.000	AV	34.93	32.06	-25.16	-	2.10	43.93	53.9	9.9	129	39	VBW: 1 kHz
Vert.	5460.000	PK	46.06	31.78	-25.16	-	2.10	54.78	73.9	19.1	147	338	-
Vert.	5460.000	AV	35.66	31.78	-25.16	-	2.10	44.38	53.9	9.5	147	338	VBW: 1 kHz

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

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

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

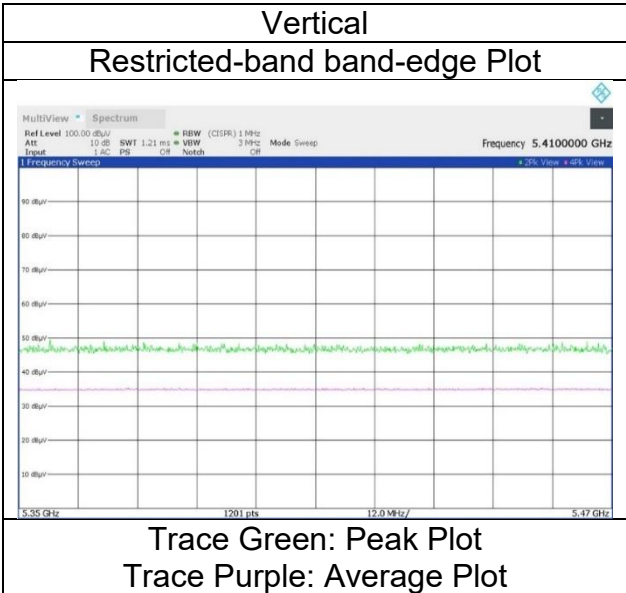
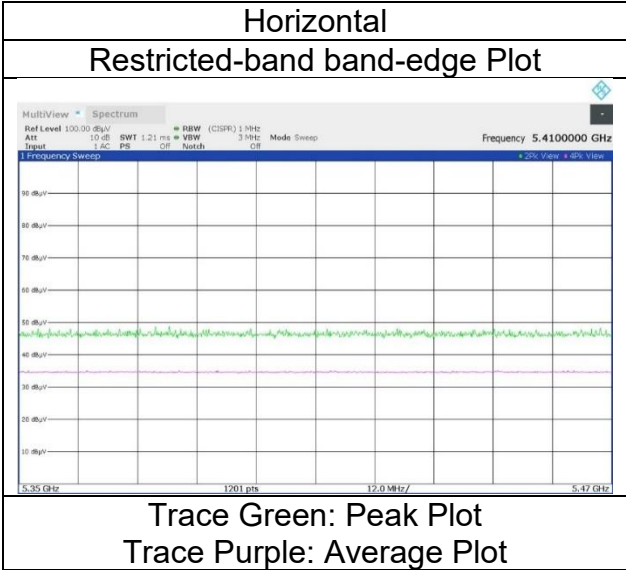
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.00	32.07	-25.15	-	2.10	57.02	-38.21	-27.0	11.2	129	39	-
Vert.	5470.000	PK	46.49	31.79	-25.15	-	2.10	55.23	-40.00	-27.0	13.0	147	338	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5510 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
April 27, 2024
22 deg. C / 64 % RH
Hiromasa Sato
(1 GHz to 6.4 GHz)
Tx 11ax-40(OFDMA) 242-tone 5670 MHz
5G_CH 0: monopole 5G_CH 1: slot

WAC1
May 3, 2024
20 deg. C / 59 % RH
Yuta Shiba
(1 GHz to 6.4 GHz)

Index 62
(Calculation) (above 1 GHz Outside of the restricted band)

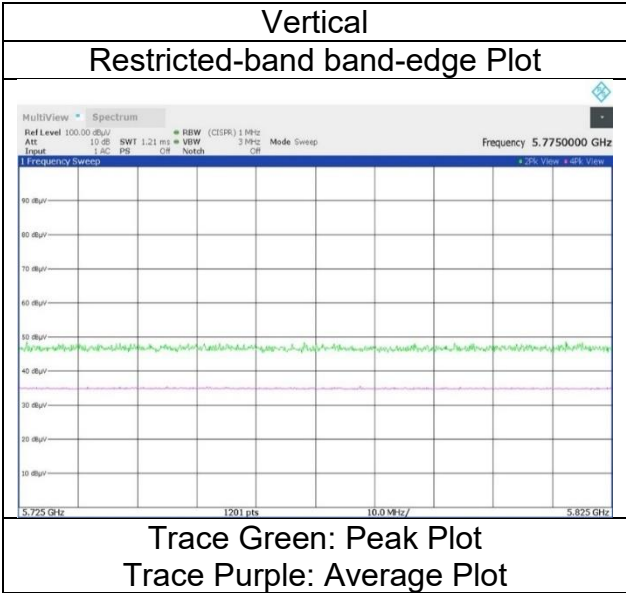
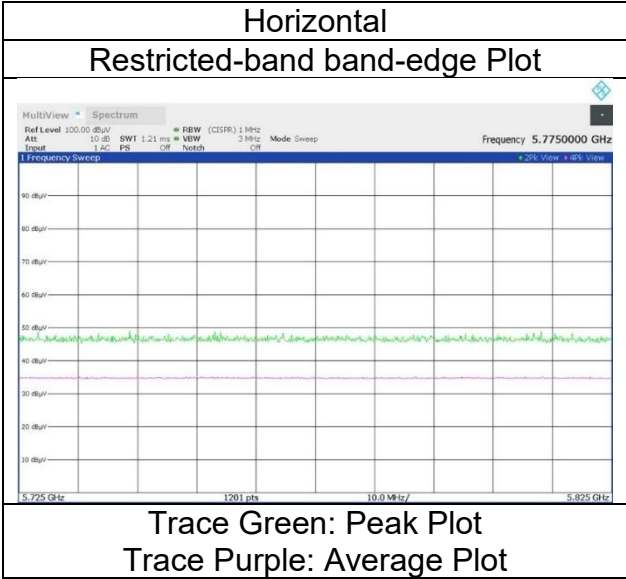
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.44	32.41	-25.06		2.10	57.89	-37.34	-27.0	10.3	112	39	-
Vert.	5725.000	PK	48.73	32.01	-25.06		2.10	57.78	-37.45	-27.0	10.4	153	341	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 62



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 61
(Calculation) (above 1 GHz Outside of the restricted band)

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

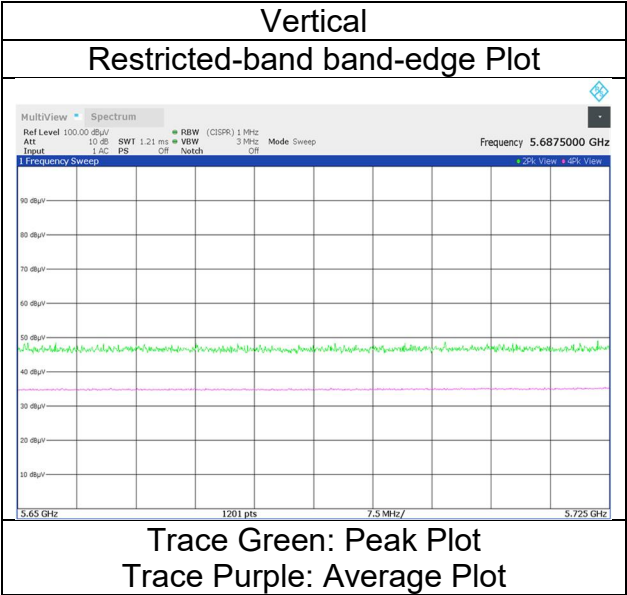
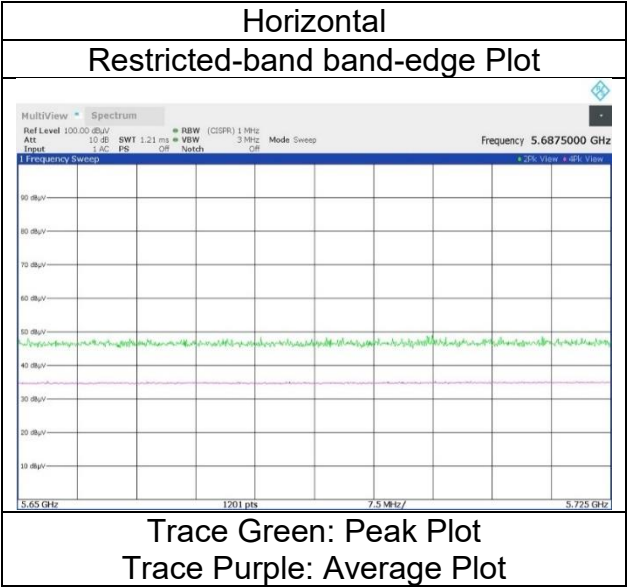
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.20	32.19	-25.07	-	2.10	57.42	-37.81	-27.0	10.8	101	26	-
Hori.	5700.000	PK	48.31	32.33	-25.06	-	2.10	57.68	-37.55	10.0	47.5	101	26	-
Hori.	5720.000	PK	48.68	32.40	-25.05	-	2.10	58.13	-37.10	15.6	52.7	101	26	-
Hori.	5725.000	PK	49.42	32.41	-25.06	-	2.10	58.87	-36.36	27.0	63.3	101	26	-
Vert.	5650.000	PK	48.46	31.84	-25.07	-	2.10	57.33	-37.90	-27.0	10.9	140	339	-
Vert.	5700.000	PK	48.49	31.95	-25.06	-	2.10	57.48	-37.75	10.0	47.7	140	339	-
Vert.	5720.000	PK	48.25	31.99	-25.05	-	2.10	57.29	-37.94	15.6	53.5	140	339	-
Vert.	5725.000	PK	50.93	32.01	-25.06	-	2.10	59.98	-35.25	27.0	62.2	140	339	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5755 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 62
(Calculation) (above 1 GHz Outside of the restricted band)

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

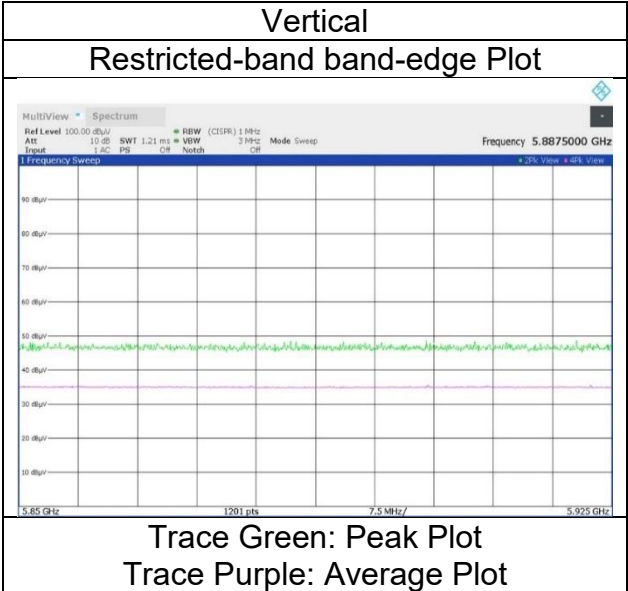
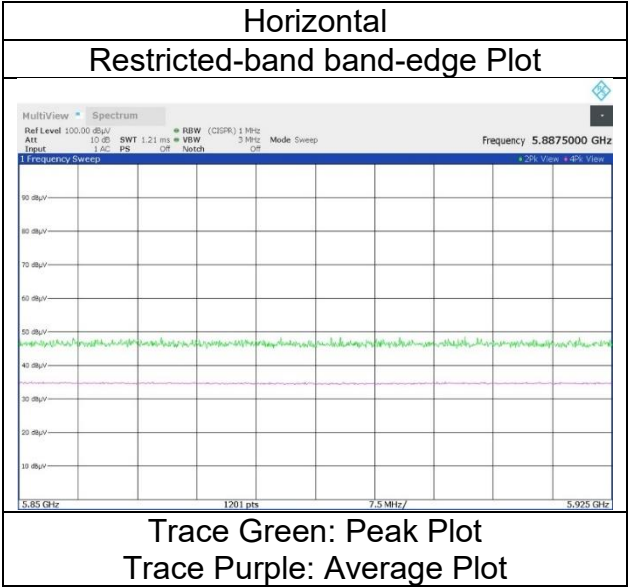
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.08	32.76	-25.01	-	2.10	57.93	-37.30	27.0	64.3	121	26	-
Hori.	5855.000	PK	48.45	32.77	-25.00	-	2.10	58.32	-36.91	15.6	52.5	121	26	-
Hori.	5875.000	PK	48.41	32.81	-25.00	-	2.10	58.32	-36.91	10.0	46.9	121	26	-
Hori.	5925.000	PK	48.33	32.88	-24.99	-	2.10	58.32	-36.91	-27.0	9.9	121	26	-
Vert.	5850.000	PK	49.19	32.33	-25.01	-	2.10	58.61	-36.62	27.0	63.6	146	325	-
Vert.	5855.000	PK	48.78	32.34	-25.00	-	2.10	58.22	-37.01	15.6	52.6	146	325	-
Vert.	5875.000	PK	48.23	32.38	-25.00	-	2.10	57.71	-37.52	10.0	47.5	146	325	-
Vert.	5925.000	PK	48.05	32.46	-24.99	-	2.10	57.62	-37.61	-27.0	10.6	146	325	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 242-tone 5795 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 62



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 65
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.74	32.09	-25.53	-	2.10	57.40	73.9	16.5	108	27	-
Hori.	5150.000	AV	35.76	32.09	-25.53	-	2.10	44.42	53.9	9.4	108	27	VBW: 2 kHz
Vert.	5150.000	PK	49.35	31.86	-25.53	-	2.10	57.78	73.9	16.1	146	325	-
Vert.	5150.000	AV	36.19	31.86	-25.53	-	2.10	44.62	53.9	9.2	146	325	VBW: 2 kHz

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

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

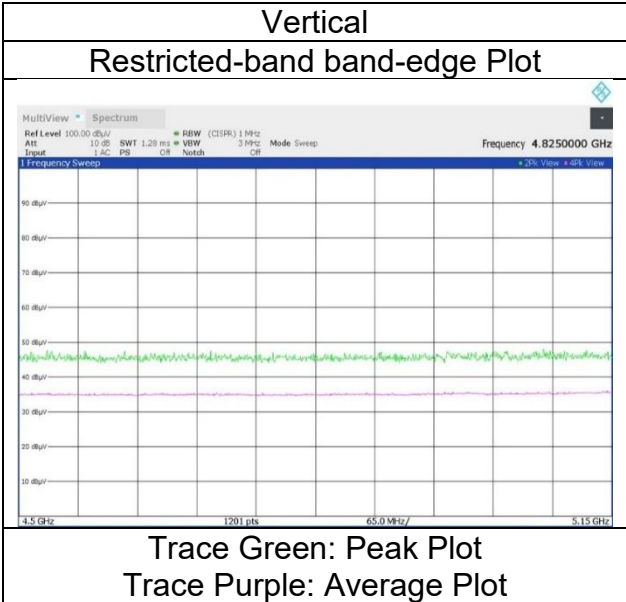
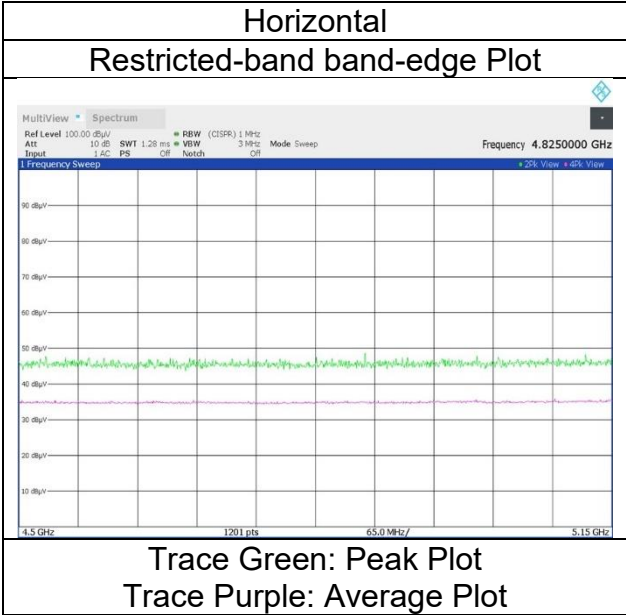
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5190 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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.	5350.000	PK	49.61	31.84	-25.29	-	2.10	58.26	73.9	15.6	129	39	-
Hori.	5350.000	AV	35.73	31.84	-25.29	-	2.10	44.38	53.9	9.5	129	39	VBW: 2 kHz
Vert.	5350.000	PK	48.23	31.58	-25.29	-	2.10	56.62	73.9	17.2	144	336	-
Vert.	5350.000	AV	34.99	31.58	-25.29	-	2.10	43.38	53.9	10.5	144	336	VBW: 2 kHz

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

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

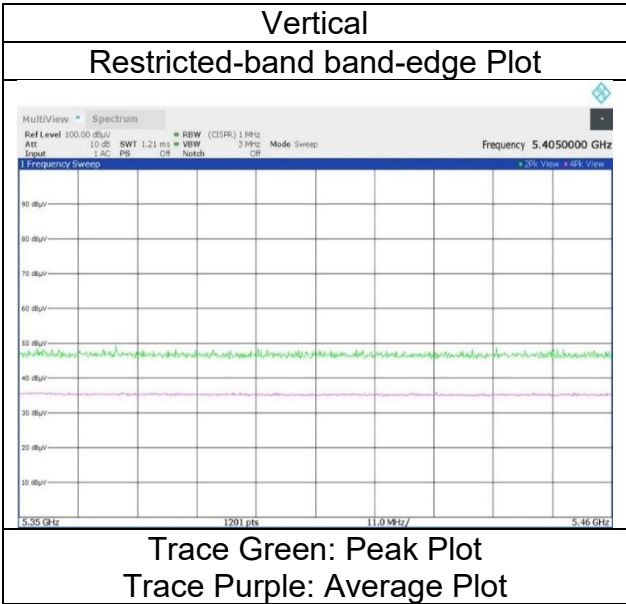
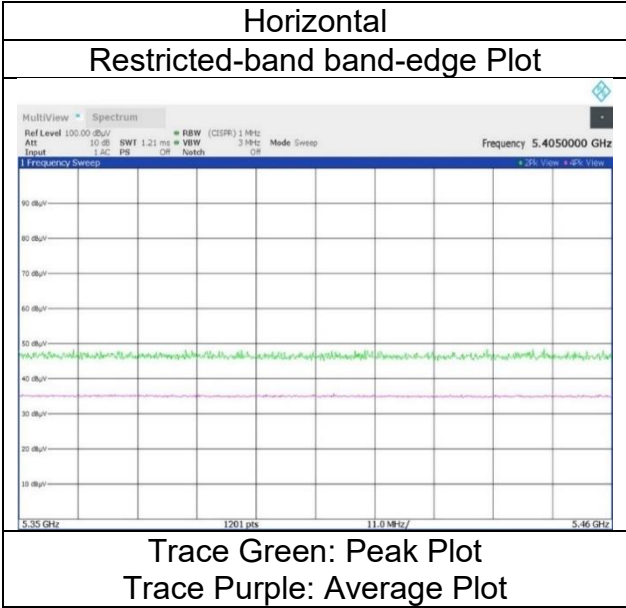
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5310 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5510 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 65
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.57	32.06	-25.16	-	2.10	56.57	73.9	17.3	105	43	-
Hori.	5460.000	AV	36.85	32.06	-25.16	-	2.10	45.85	53.9	8.0	105	43	VBW: 2 kHz
Vert.	5460.000	PK	48.60	31.78	-25.16	-	2.10	57.32	73.9	16.5	149	337	-
Vert.	5460.000	AV	35.62	31.78	-25.16	-	2.10	44.34	53.9	9.5	149	337	VBW: 2 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.18	32.07	-25.15	-	2.10	57.20	-38.03	-27.0	11.0	105	43	-
Vert.	5470.000	PK	48.07	31.79	-25.15	-	2.10	56.81	-38.42	-27.0	11.4	149	337	-

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

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

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

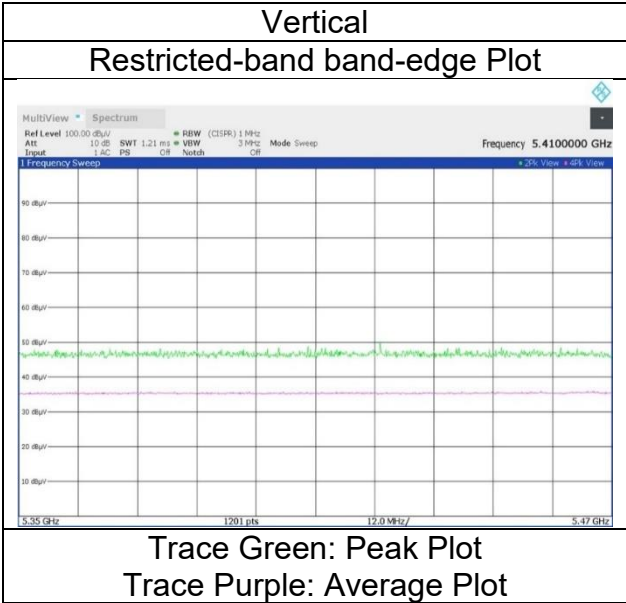
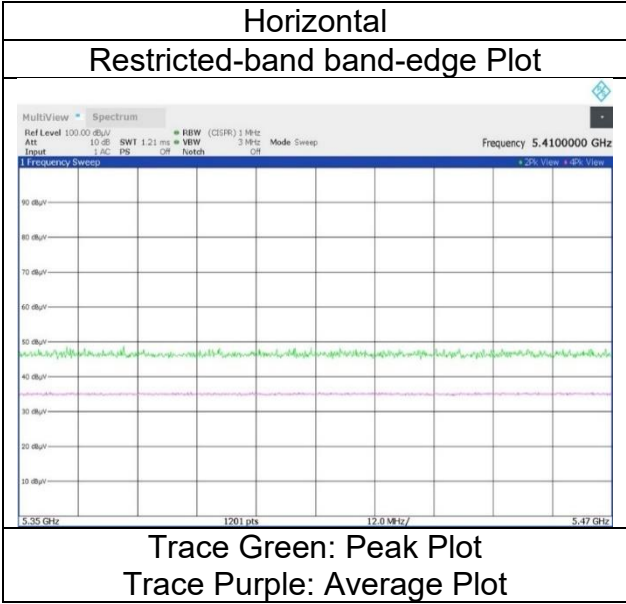
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5510 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 65
(Calculation) (above 1 GHz Outside of the restricted band)

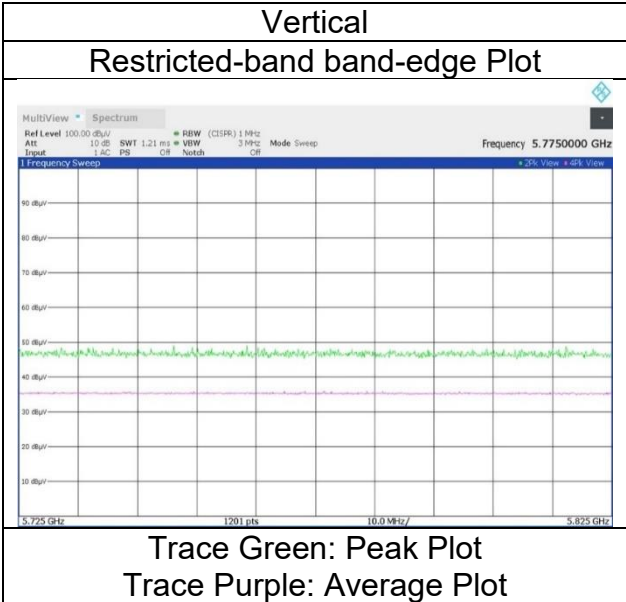
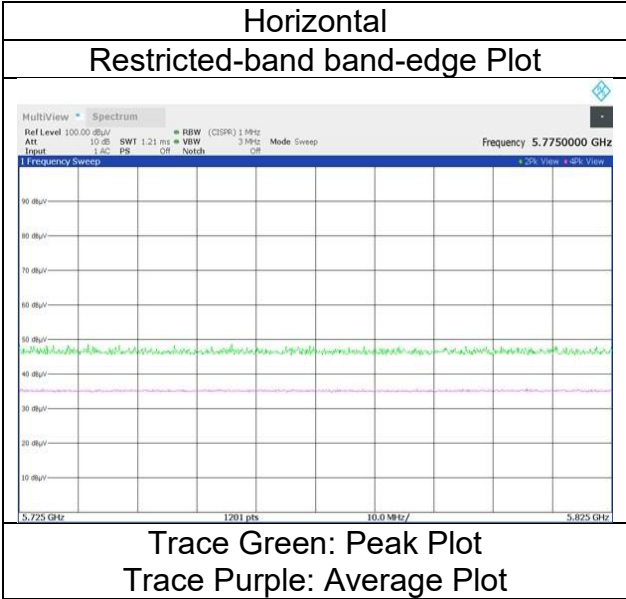
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.85	32.41	-25.06	-	2.10	58.30	-36.93	-27.0	9.9	108	43	-
Vert.	5725.000	PK	48.02	32.01	-25.06	-	2.10	57.07	-38.16	-27.0	11.1	153	331	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5670 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 65
(Calculation) (above 1 GHz Outside of the restricted band)

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

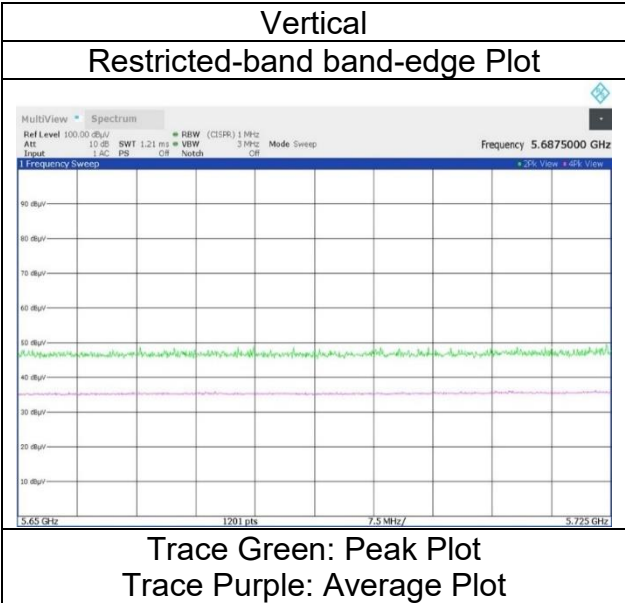
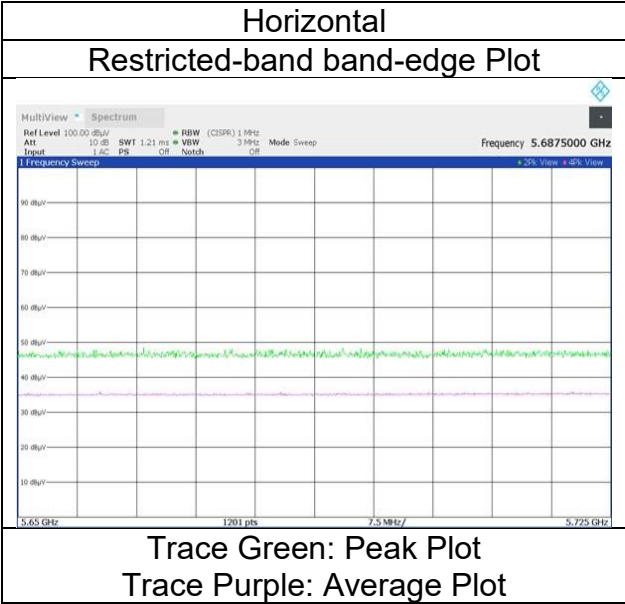
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.92	32.19	-25.07	-	2.10	57.14	-38.09	-27.0	11.0	107	28	-
Hori.	5700.000	PK	47.92	32.33	-25.06	-	2.10	57.29	-37.94	10.0	47.9	107	28	-
Hori.	5720.000	PK	48.12	32.40	-25.05	-	2.10	57.57	-37.66	15.6	53.2	107	28	-
Hori.	5725.000	PK	48.94	32.41	-25.06	-	2.10	58.39	-36.84	27.0	63.8	107	28	-
Vert.	5650.000	PK	48.45	31.84	-25.07	-	2.10	57.32	-37.91	-27.0	10.9	150	329	-
Vert.	5700.000	PK	48.71	31.95	-25.06	-	2.10	57.70	-37.53	10.0	47.5	150	329	-
Vert.	5720.000	PK	48.45	31.99	-25.05	-	2.10	57.49	-37.74	15.6	53.3	150	329	-
Vert.	5725.000	PK	49.99	32.01	-25.06	-	2.10	59.04	-36.19	27.0	63.1	150	329	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5755 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 27, 2024 May 3, 2024
Temperature / Humidity 22 deg. C / 64 % RH 20 deg. C / 59 % RH
Engineer Hiromasa Sato Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 65
(Calculation) (above 1 GHz Outside of the restricted band)

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

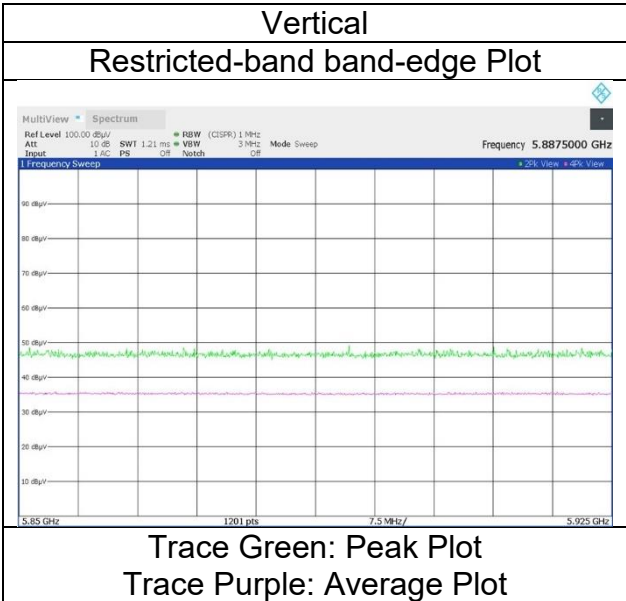
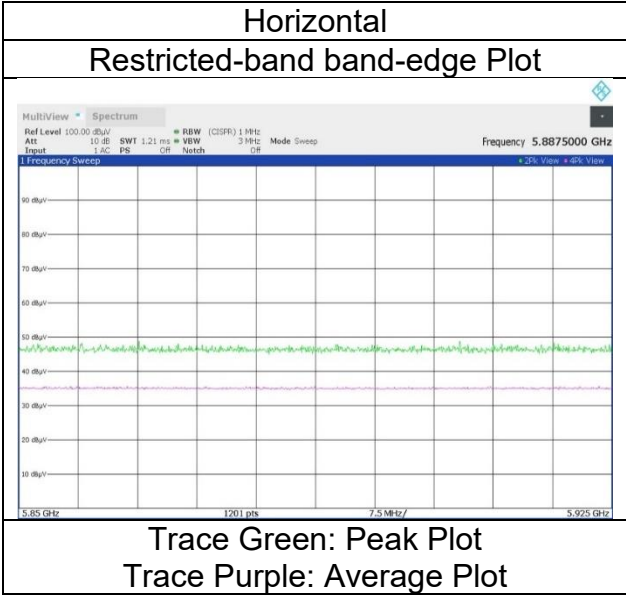
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.87	32.76	-25.01	-	2.10	58.72	-36.51	27.0	63.5	126	27	-
Hori.	5855.000	PK	48.96	32.77	-25.00	-	2.10	58.83	-36.40	15.6	52.0	126	27	-
Hori.	5875.000	PK	48.75	32.81	-25.00	-	2.10	58.66	-36.57	10.0	46.5	126	27	-
Hori.	5925.000	PK	48.58	32.88	-24.99	-	2.10	58.57	-36.66	-27.0	9.6	126	27	-
Vert.	5850.000	PK	49.04	32.33	-25.01	-	2.10	58.46	-36.77	27.0	63.7	159	335	-
Vert.	5855.000	PK	48.02	32.34	-25.00	-	2.10	57.46	-37.77	15.6	53.3	159	335	-
Vert.	5875.000	PK	49.11	32.38	-25.00	-	2.10	58.59	-36.64	10.0	46.6	159	335	-
Vert.	5925.000	PK	48.46	32.46	-24.99	-	2.10	58.03	-37.20	-27.0	10.2	159	335	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 27, 2024	May 3, 2024
Temperature / Humidity	22 deg. C / 64 % RH	20 deg. C / 59 % RH
Engineer	Hiromasa Sato	Yuta Shiba
Mode	Tx 11ax-40(OFDMA) 484-tone 5795 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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	WAC1	WAC1	WAC1
Date	January 13, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH	22 deg. C / 32 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Kouki Yamada (1 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5210 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.16	31.86	-25.53	-	2.10	57.59	73.9	16.3	149	40	-
Hori.	15630.000	PK	47.79	39.61	-25.91	-	-9.54	51.95	73.9	21.9	150	0	-
Hori.	5150.000	AV	34.99	31.86	-25.53	-	2.10	43.42	53.9	10.4	149	40	VBW:200 Hz
Hori.	15630.000	AV	34.80	39.61	-25.91	-	-9.54	38.96	53.9	14.9	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	50.75	31.86	-25.53	-	2.10	59.18	73.9	14.7	100	0	-
Vert.	15630.000	PK	48.72	39.61	-25.91	-	-9.54	52.88	73.9	21.0	150	0	-
Vert.	5150.000	AV	35.13	31.86	-25.53	-	2.10	43.56	53.9	10.3	100	0	VBW:200 Hz
Vert.	15630.000	AV	34.81	39.61	-25.91	-	-9.54	38.97	53.9	14.9	150	0	VBW:200 Hz, Floor noise

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6946.663	PK	51.47	35.37	-33.34	-	2.10	55.60	-39.63	-27.0	12.6	185	61	-
Hori.	10420.000	PK	48.52	36.30	-29.46	-	-9.54	45.82	-49.41	-27.0	22.4	129	142	-
Vert.	6946.663	PK	51.46	35.37	-33.34	-	2.10	55.59	-39.64	-27.0	12.6	172	340	-
Vert.	10420.000	PK	48.83	36.30	-29.46	-	-9.54	46.13	-49.10	-27.0	22.1	139	236	-

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

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

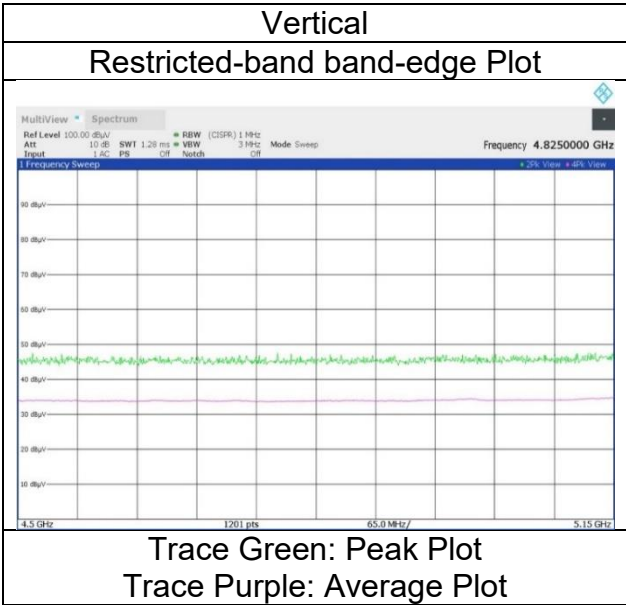
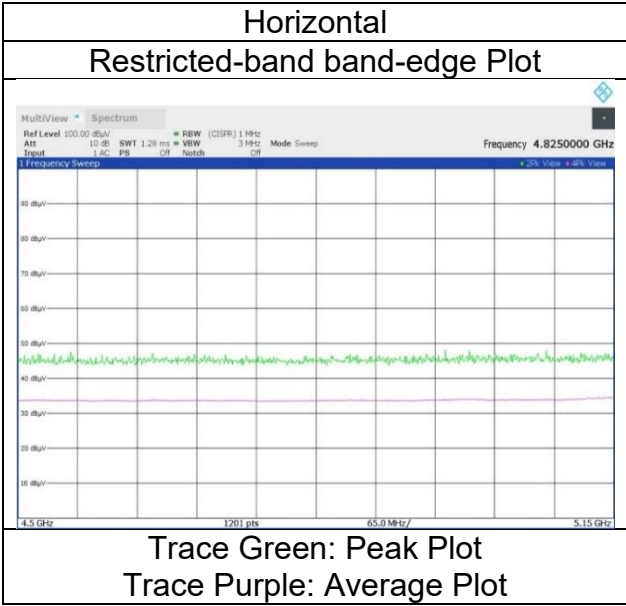
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
Mode	Tx 11ac-80 5210 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 21, 2024	January 13, 2024	January 16, 2024
Temperature / Humidity	19 deg. C / 23 % RH	21 deg. C / 35 % RH	20 deg. C / 30 % RH
Engineer	Miku Ikudome (30 MHz to 1 GHz)	Kouki Yamada (1 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	January 17, 2024	June 13, 2024	
Temperature / Humidity	21 deg. C / 20 % RH	23 deg. C / 64 % RH	
Engineer	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-80 5290 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(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.	135.420	QP	36.90	11.42	6.75	33.06	0.00	22.01	43.5	21.4	239	70	-
Hori.	190.230	QP	39.30	13.94	7.11	32.98	0.00	27.37	43.5	16.1	180	306	-
Hori.	199.441	QP	36.90	14.41	7.03	32.96	0.00	25.38	43.5	18.1	173	32	-
Hori.	201.499	QP	37.70	11.27	7.11	32.96	0.00	23.12	43.5	20.3	100	72	-
Hori.	5350.000	PK	51.08	31.58	-25.29	-	2.10	59.47	73.9	14.4	100	34	-
Hori.	5359.577	PK	49.80	31.60	-25.28	-	2.10	58.22	73.9	15.6	100	34	-
Hori.	15870.000	PK	49.83	39.95	-25.99	-	-9.54	54.25	73.9	19.6	150	0	-
Hori.	5350.000	AV	36.51	31.58	-25.29	-	2.10	44.90	53.9	9.0	100	34	VBW:200 Hz
Hori.	5359.577	AV	35.65	31.60	-25.28	-	2.10	44.07	53.9	9.8	100	34	VBW:200 Hz
Hori.	15870.000	AV	34.85	39.95	-25.99	-	-9.54	39.27	53.9	14.6	150	0	VBW:200 Hz, Floor noise
Vert.	56.416	QP	37.60	9.65	6.34	32.99	0.00	20.60	40.0	19.4	100	84	-
Vert.	72.009	QP	42.30	9.19	6.45	33.06	0.00	24.88	40.0	15.1	100	101	-
Vert.	85.676	QP	40.60	9.06	6.81	33.09	0.00	23.38	40.0	16.6	100	25	-
Vert.	100.002	QP	54.50	9.51	6.88	33.09	0.00	37.80	43.5	5.7	100	52	-
Vert.	135.615	QP	50.10	11.43	6.75	33.06	0.00	35.22	43.5	8.2	100	76	-
Vert.	199.169	QP	31.50	14.39	7.03	32.96	0.00	19.96	43.5	23.5	100	66	-
Vert.	200.674	QP	33.80	11.27	7.11	32.96	0.00	19.22	43.5	24.2	119	210	-
Vert.	644.307	QP	27.00	19.22	8.22	31.72	0.00	22.72	46.0	23.2	100	224	-
Vert.	5350.000	PK	50.46	31.58	-25.29	-	2.10	58.85	73.9	15.0	195	355	-
Vert.	5354.992	PK	52.77	31.59	-25.29	-	2.10	61.17	73.9	12.7	195	355	-
Vert.	15870.000	PK	49.61	39.95	-25.99	-	-9.54	54.03	73.9	19.8	150	0	-
Vert.	5350.000	AV	34.80	31.58	-25.29	-	2.10	43.19	53.9	10.7	195	355	VBW:200 Hz
Vert.	5354.992	AV	36.82	31.59	-25.29	-	2.10	45.22	53.9	8.6	195	355	VBW:200 Hz
Vert.	15870.000	AV	34.88	39.95	-25.99	-	-9.54	39.30	53.9	14.6	150	0	VBW:200 Hz, Floor noise

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7053.295	PK	52.93	35.94	-33.26	-	2.10	57.71	-37.52	-27.0	10.5	352	60	-
Hori.	10580.000	PK	49.45	36.75	-29.25	-	-9.54	47.41	-47.82	-27.0	20.8	137	98	-
Vert.	7053.295	PK	51.88	35.94	-33.26	-	2.10	56.66	-38.57	-27.0	11.5	192	342	-
Vert.	10580.000	PK	50.47	36.75	-29.25	-	-9.54	48.43	-46.80	-27.0	19.8	152	255	-

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

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

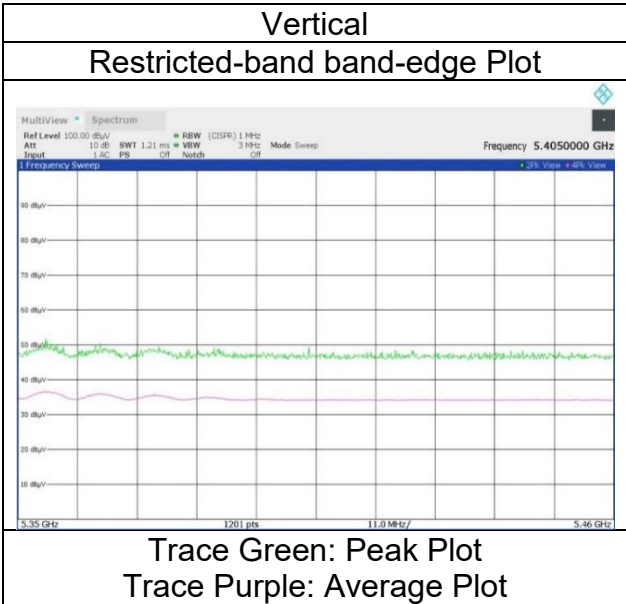
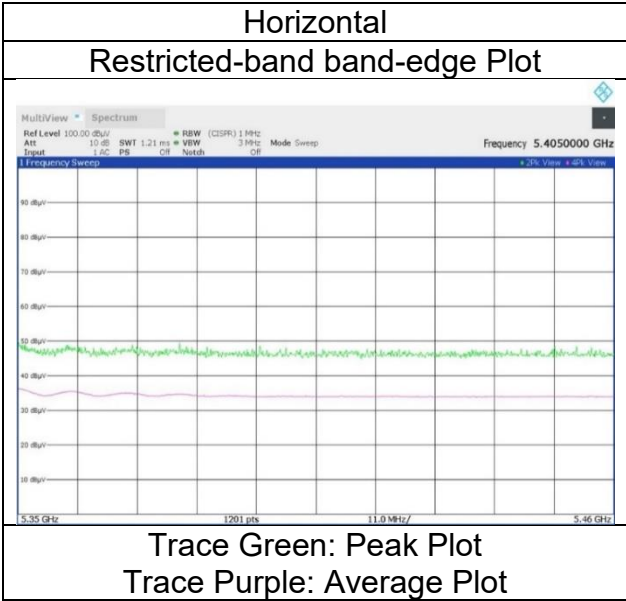
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	January 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH
Engineer	Kouki Yamada
Mode	Tx 11ac-80 5290 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1
Date	January 13, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH	22 deg. C / 32 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Kouki Yamada (1 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)	Miku Ikudome (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5530 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.79	31.78	-25.16	-	2.10	58.51	73.9	15.3	150	30	-
Hori.	11060.000	PK	48.57	37.41	-28.78	-	-9.54	47.66	73.9	26.2	144	87	-
Hori.	5460.000	AV	34.95	31.78	-25.16	-	2.10	43.67	53.9	10.2	150	30	VBW:200 Hz
Hori.	11060.000	AV	35.39	37.41	-28.78	-	-9.54	34.48	53.9	19.4	144	87	VBW:200 Hz
Vert.	5460.000	PK	49.46	31.78	-25.16	-	2.10	58.18	73.9	15.7	273	355	-
Vert.	11060.000	PK	48.48	37.41	-28.78	-	-9.54	47.57	73.9	26.3	136	264	-
Vert.	5460.000	AV	34.53	31.78	-25.16	-	2.10	43.25	53.9	10.6	273	355	VBW:200 Hz
Vert.	11060.000	AV	35.14	37.41	-28.78	-	-9.54	34.23	53.9	19.6	136	264	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.61	31.79	-25.15	-	2.10	59.35	-35.88	-27.0	8.8	150	30	-
Hori.	6635.945	PK	50.44	34.31	-33.36	-	2.10	53.49	-41.74	-27.0	14.7	170	61	-
Hori.	16590.000	PK	49.38	39.68	-25.33	-	-9.54	54.19	-41.04	-27.0	14.0	150	0	-
Vert.	5465.350	PK	50.70	31.79	-25.16	-	2.10	59.43	-35.80	-27.0	8.7	273	355	-
Vert.	5470.000	PK	50.06	31.79	-25.15	-	2.10	58.80	-36.43	-27.0	9.4	273	355	-
Vert.	6635.945	PK	49.31	34.31	-33.36	-	2.10	52.36	-42.87	-27.0	15.8	167	355	-
Vert.	16590.000	PK	49.34	39.68	-25.33	-	-9.54	54.15	-41.08	-27.0	14.0	150	0	-

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

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

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

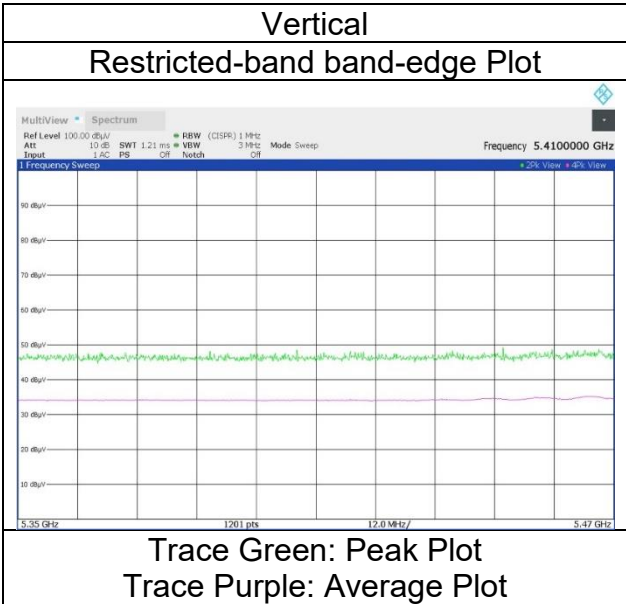
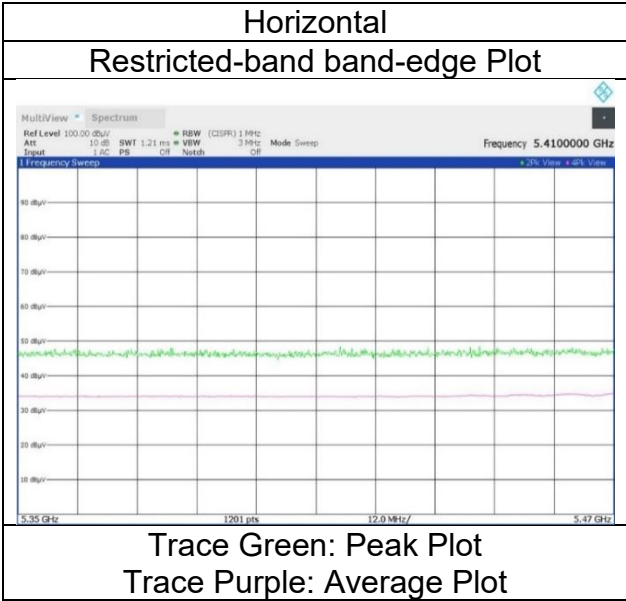
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-80 5530 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1
Date	January 13, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH	22 deg. C / 32 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Kouki Yamada	Hiromasa Sato	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5610 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.97	32.01	-25.06	-	2.10	59.02	-36.21	-27.0	9.2	142	32	-
Hori.	6731.945	PK	49.57	34.38	-33.36	-	2.10	52.69	-42.54	-27.0	15.5	152	60	-
Vert.	5725.000	PK	49.93	32.01	-25.06	-	2.10	58.98	-36.25	-27.0	9.2	209	346	-
Vert.	6731.945	PK	49.89	34.38	-33.36	-	2.10	53.01	-42.22	-27.0	15.2	158	345	-

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

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

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

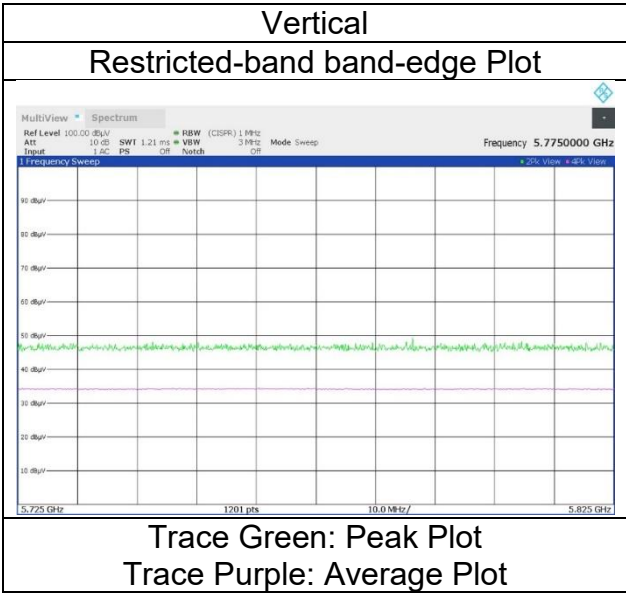
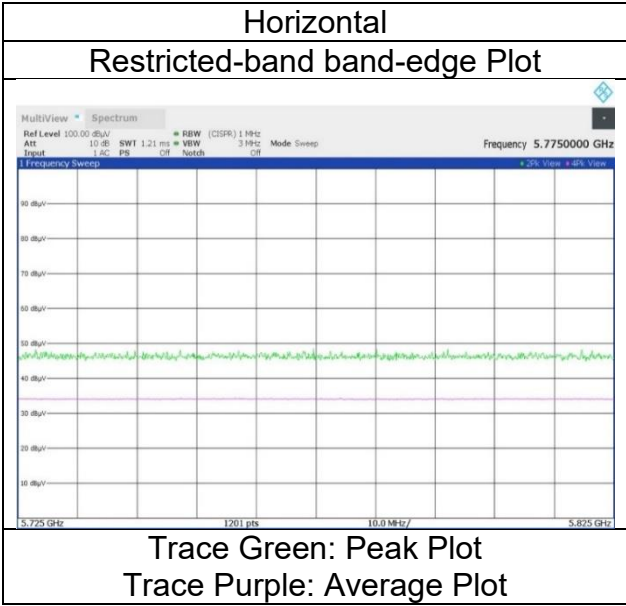
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-80 5610 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1
Date	January 13, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH	22 deg. C / 32 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Kouki Yamada	Hiromasa Sato	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5690 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11220.000	PK	49.45	37.64	-28.47	-	-9.54	49.08	73.9	24.8	135	61	-
Hori.	11380.000	PK	49.55	37.94	-28.17	-	-9.54	49.78	73.9	24.1	146	78	-
Hori.	11220.000	AV	35.84	37.64	-28.47	-	-9.54	35.47	53.9	18.4	135	61	VBW:200 Hz
Hori.	11380.000	AV	35.63	37.94	-28.17	-	-9.54	35.86	53.9	18.0	146	78	VBW:200 Hz
Vert.	11220.000	PK	49.25	37.64	-28.47	-	-9.54	48.88	73.9	25.0	132	225	-
Vert.	11380.000	PK	49.27	37.94	-28.17	-	-9.54	49.50	73.9	24.4	150	228	-
Vert.	11220.000	AV	35.63	37.64	-28.47	-	-9.54	35.26	53.9	18.6	132	225	VBW:200 Hz
Vert.	11380.000	AV	35.59	37.94	-28.17	-	-9.54	35.82	53.9	18.0	150	228	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16830.000	PK	48.93	39.49	-24.89	-	-9.54	53.99	-41.24	-27.0	14.2	150	0	-
Hori.	17070.000	PK	48.72	39.80	-24.53	-	-9.54	54.45	-40.78	-27.0	13.7	150	0	-
Vert.	16830.000	PK	48.77	39.49	-24.89	-	-9.54	53.83	-41.40	-27.0	14.4	150	0	-
Vert.	17070.000	PK	48.84	39.80	-24.53	-	-9.54	54.57	-40.66	-27.0	13.6	150	0	-

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

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

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

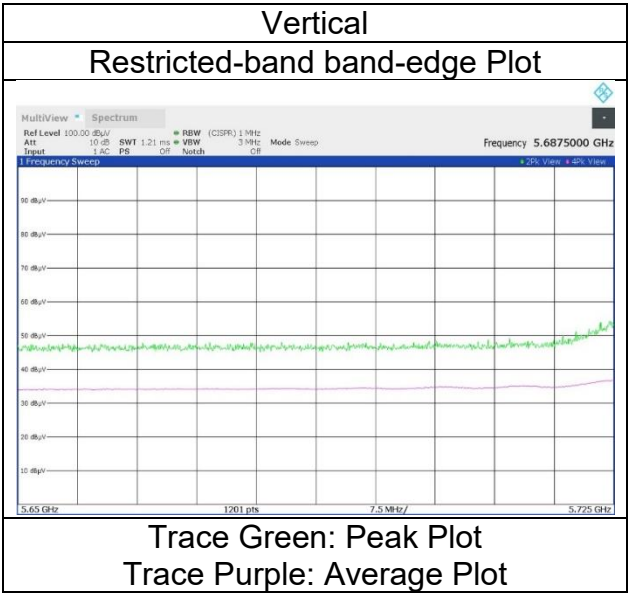
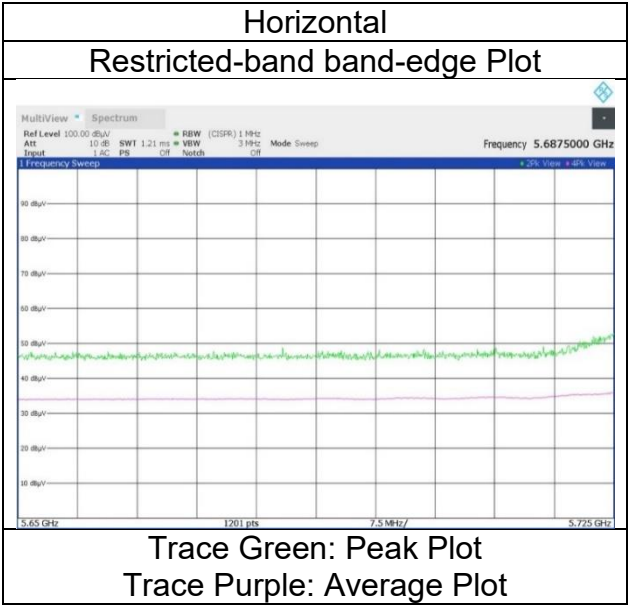
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-80 5690 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC1	WAC1	WAC1	WAC1
Date	January 13, 2024	January 16, 2024	January 17, 2024	June 13, 2024
Temperature / Humidity	21 deg. C / 35 % RH	22 deg. C / 32 % RH	21 deg. C / 20 % RH	23 deg. C / 64 % RH
Engineer	Kouki Yamada	Hiromasa Sato	Miku Ikudome	Hiromasa Sato
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5775 MHz			
Antenna type	5G_CH 0: monopole 5G_CH 1: slot			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11550.000	PK	49.31	38.02	-27.98	-	-9.54	49.81	73.9	24.0	150	74	-
Hori.	11550.000	AV	35.44	38.02	-27.98	-	-9.54	35.94	53.9	17.9	150	74	VBW:200 Hz
Vert.	11550.000	PK	49.16	38.02	-27.98	-	-9.54	49.66	73.9	24.2	150	258	-
Vert.	11550.000	AV	35.28	38.02	-27.98	-	-9.54	35.78	53.9	18.1	150	258	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.07	31.84	-25.07	-	2.10	57.94	-37.29	-27.0	10.2	119	27	-
Hori.	5700.000	PK	49.23	31.95	-25.06	-	2.10	58.22	-37.01	10.0	47.0	119	27	-
Hori.	5720.000	PK	51.01	31.99	-25.05	-	2.10	60.05	-35.18	15.6	50.7	119	27	-
Hori.	5725.000	PK	55.66	32.01	-25.06	-	2.10	64.71	-30.52	27.0	57.5	119	27	-
Hori.	5850.000	PK	49.57	32.33	-25.01	-	2.10	58.99	-36.24	27.0	63.2	119	27	-
Hori.	5855.000	PK	49.33	32.34	-25.00	-	2.10	58.77	-36.46	15.6	52.0	119	27	-
Hori.	5875.000	PK	48.78	32.38	-25.00	-	2.10	58.26	-36.97	10.0	46.9	119	27	-
Hori.	5925.000	PK	48.31	32.46	-24.99	-	2.10	57.88	-37.35	-27.0	10.3	119	27	-
Hori.	6929.945	PK	49.70	35.28	-33.35	-	2.10	53.73	-41.50	-27.0	14.5	150	60	-
Hori.	17325.000	PK	48.73	40.23	-24.35	-	-9.54	55.07	-40.16	-27.0	13.1	150	0	-
Vert.	5650.000	PK	48.42	31.84	-25.07	-	2.10	57.29	-37.94	-27.0	10.9	180	350	-
Vert.	5700.000	PK	49.01	31.95	-25.06	-	2.10	58.00	-37.23	10.0	47.2	180	350	-
Vert.	5720.000	PK	52.18	31.99	-25.05	-	2.10	61.22	-34.01	15.6	49.6	180	350	-
Vert.	5725.000	PK	56.20	32.01	-25.06	-	2.10	65.25	-29.98	27.0	56.9	180	350	-
Vert.	5850.000	PK	48.68	32.33	-25.01	-	2.10	58.10	-37.13	27.0	64.1	180	350	-
Vert.	5855.000	PK	49.30	32.34	-25.00	-	2.10	58.74	-36.49	15.6	52.0	180	350	-
Vert.	5855.027	PK	50.40	32.34	-25.00	-	2.10	59.84	-35.39	15.6	50.9	180	350	-
Vert.	5875.000	PK	48.95	32.38	-25.00	-	2.10	58.43	-36.80	10.0	46.8	180	350	-
Vert.	5925.000	PK	48.58	32.46	-24.99	-	2.10	58.15	-37.08	-27.0	10.0	180	350	-
Vert.	6929.945	PK	49.65	35.28	-33.35	-	2.10	53.68	-41.55	-27.0	14.5	157	199	-
Vert.	17325.000	PK	48.85	40.23	-24.35	-	-9.54	55.19	-40.04	-27.0	13.0	150	0	-

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

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

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

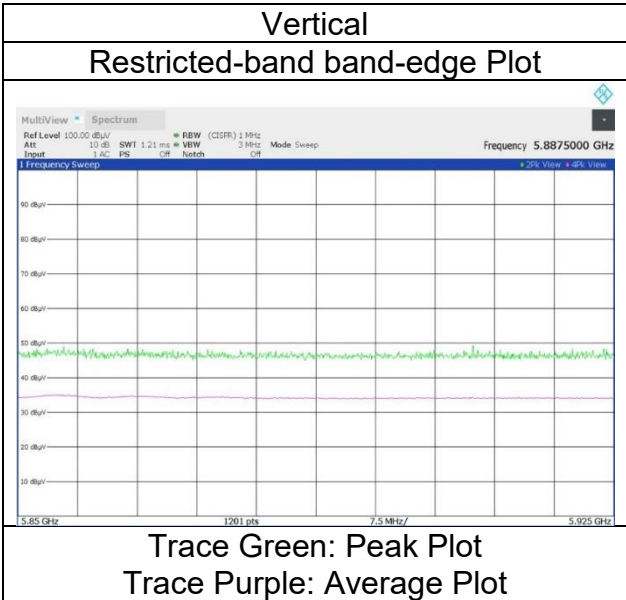
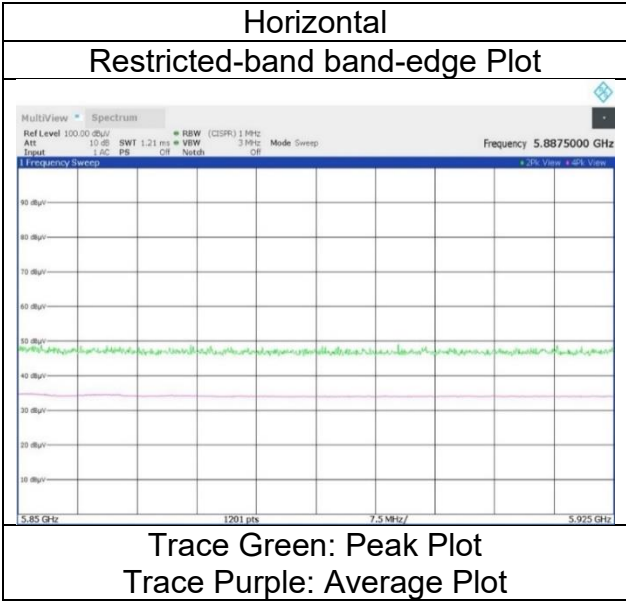
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
January 13, 2024
21 deg. C / 35 % RH
Kouki Yamada
Tx 11ac-80 5775 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 20 deg. C / 23 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-80(OFDM) 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.09	31.86	-25.53	0.00	2.10	58.52	73.9	15.3	166	44	-
Hori.	15630.000	PK	46.79	39.61	-25.91	0.00	-9.54	50.95	73.9	22.9	150	0	-
Hori.	5150.000	AV	36.15	31.86	-25.53	0.00	2.10	44.58	53.9	9.3	166	44	VBW:200 Hz
Hori.	15630.000	AV	32.51	39.61	-25.91	0.00	-9.54	36.67	53.9	17.2	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	50.11	31.86	-25.53	0.00	2.10	58.54	73.9	15.3	117	20	-
Vert.	15630.000	PK	46.99	39.61	-25.91	0.00	-9.54	51.15	73.9	22.7	150	0	-
Vert.	5150.000	AV	35.89	31.86	-25.53	0.00	2.10	44.32	53.9	9.5	117	20	VBW:200 Hz
Vert.	15630.000	AV	32.50	39.61	-25.91	0.00	-9.54	36.66	53.9	17.2	150	0	VBW:200 Hz, Floor noise

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

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

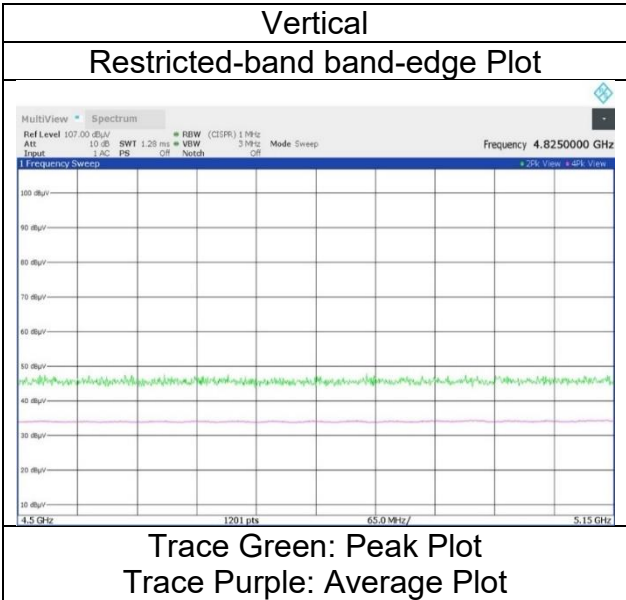
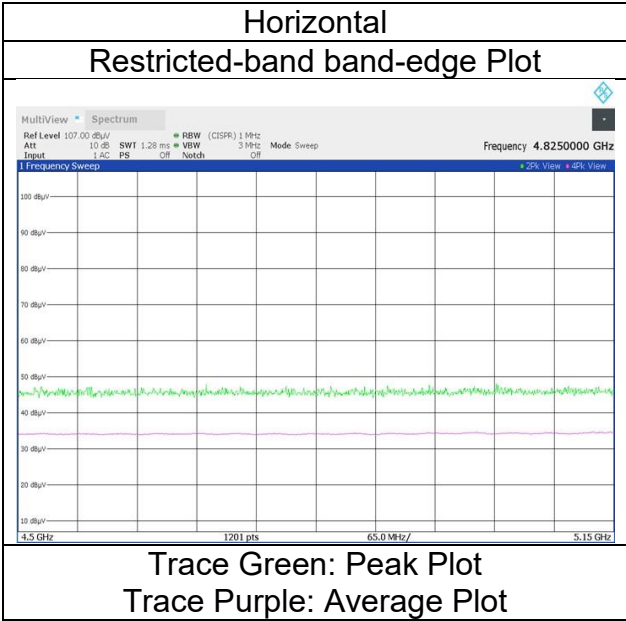
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6946.667	PK	52.41	35.37	-33.34	0.00	2.10	56.54	-38.69	-27.0	11.6	184	48	-
Hori.	10420.000	PK	48.18	36.30	-29.46	0.00	-9.54	45.48	-49.75	-27.0	22.7	137	115	-
Vert.	6946.667	PK	52.25	35.37	-33.34	0.00	2.10	56.38	-38.85	-27.0	11.8	196	331	-
Vert.	10420.000	PK	49.86	36.30	-29.46	0.00	-9.54	47.16	-48.07	-27.0	21.0	147	255	-

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takahiro Suzuki
Tx 11ax-80(OFDM) 5210 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	March 13, 2024	March 18, 2024	March 19, 2024
Temperature / Humidity	19 deg. C / 40 % RH	20 deg. C / 32 % RH	20 deg. C / 23 % RH
Engineer	Takahiro Suzuki	Miku Ikudome	Miku Ikudome
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-80(OFDM) 5290 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: slot		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.03	31.58	-25.29	0.00	2.10	59.42	73.9	14.4	160	38	-
Hori.	5352.885	PK	50.32	31.59	-25.29	0.00	2.10	58.72	73.9	15.1	160	38	-
Hori.	15870.000	PK	46.82	39.95	-25.99	0.00	-9.54	51.24	73.9	22.6	150	0	-
Hori.	5350.000	AV	36.40	31.58	-25.29	0.00	2.10	44.79	53.9	9.1	160	38	VBW:200 Hz
Hori.	5352.885	AV	36.22	31.59	-25.29	0.00	2.10	44.62	53.9	9.2	160	38	VBW:200 Hz
Hori.	15870.000	AV	32.02	39.95	-25.99	0.00	-9.54	36.44	53.9	17.4	150	0	VBW:200 Hz, Floor noise
Vert.	5350.000	PK	51.93	31.58	-25.29	0.00	2.10	60.32	73.9	13.5	147	8	-
Vert.	5352.885	PK	50.75	31.59	-25.29	0.00	2.10	59.15	73.9	14.7	147	8	-
Vert.	15870.000	PK	46.86	39.95	-25.99	0.00	-9.54	51.28	73.9	22.6	150	0	-
Vert.	5350.000	AV	37.01	31.58	-25.29	0.00	2.10	45.40	53.9	8.5	147	8	VBW:200 Hz
Vert.	5352.885	AV	35.93	31.59	-25.29	0.00	2.10	44.33	53.9	9.5	147	8	VBW:200 Hz
Vert.	15870.000	AV	32.10	39.95	-25.99	0.00	-9.54	36.52	53.9	17.3	150	0	VBW:200 Hz, Floor noise

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7053.333	PK	53.41	35.94	-33.26	0.00	2.10	58.19	-37.04	-27.0	10.0	227	47	-
Hori.	10580.000	PK	48.16	36.75	-29.25	0.00	-9.54	46.12	-49.11	-27.0	22.1	157	302	-
Vert.	7053.333	PK	52.90	35.94	-33.26	0.00	2.10	57.68	-37.55	-27.0	10.5	193	332	-
Vert.	10580.000	PK	48.29	36.75	-29.25	0.00	-9.54	46.25	-48.98	-27.0	21.9	147	259	-

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

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

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

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

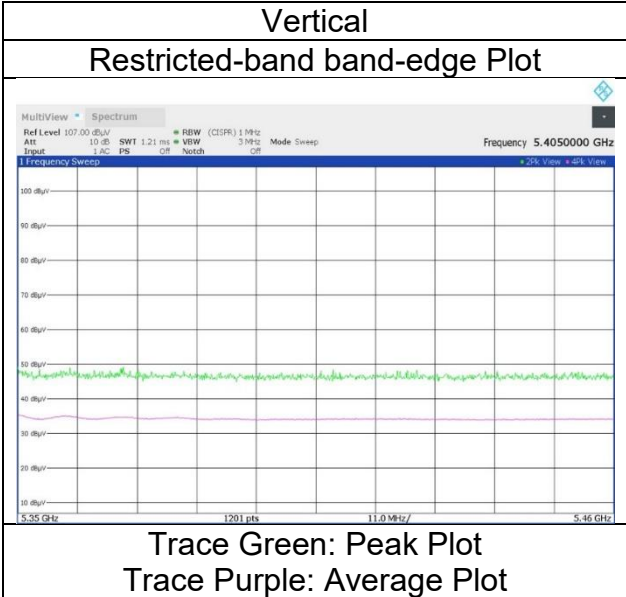
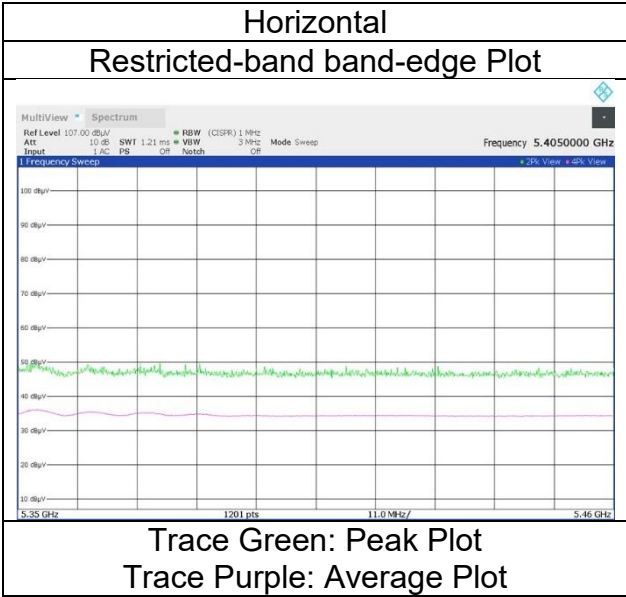
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 13, 2024
19 deg. C / 40 % RH
Takahiro Suzuki
Tx 11ax-80(OFDM) 5290 MHz
5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 20 deg. C / 23 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-80(OFDM) 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.74	31.78	-25.16	0.00	2.10	59.46	73.9	14.4	148	36	-
Hori.	11060.000	PK	46.77	37.41	-28.78	0.00	-9.54	45.86	73.9	28.0	159	307	-
Hori.	5460.000	AV	36.18	31.78	-25.16	0.00	2.10	44.90	53.9	9.0	148	36	VBW:200 Hz
Hori.	11060.000	AV	32.70	37.41	-28.78	0.00	-9.54	31.79	53.9	22.1	159	307	VBW:200 Hz
Vert.	5460.000	PK	50.90	31.78	-25.16	0.00	2.10	59.62	73.9	14.2	102	34	-
Vert.	11060.000	PK	46.89	37.41	-28.78	0.00	-9.54	45.98	73.9	27.9	181	283	-
Vert.	5460.000	AV	35.97	31.78	-25.16	0.00	2.10	44.69	53.9	9.2	102	34	VBW:200 Hz
Vert.	11060.000	AV	32.50	37.41	-28.78	0.00	-9.54	31.59	53.9	22.3	181	283	VBW:200 Hz

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

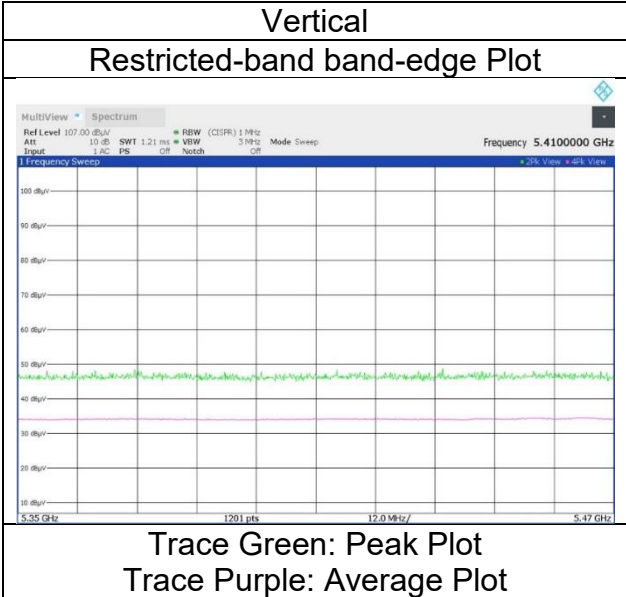
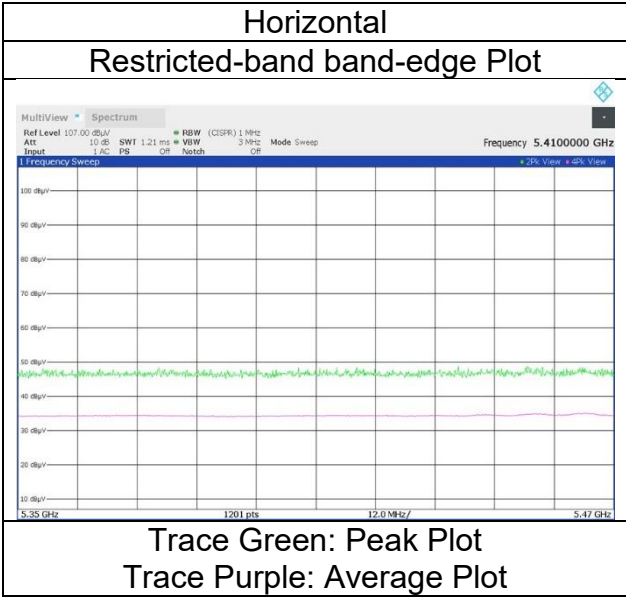
(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	50.86	31.79	-25.15	0.00	2.10	59.60	-35.63	-27.0	8.6	148	36	-
Hori.	6636.000	PK	50.78	34.31	-33.36	0.00	2.10	53.83	-41.40	-27.0	14.4	201	47	-
Hori.	16590.000	PK	47.21	39.68	-25.33	0.00	-9.54	52.02	-43.21	-27.0	16.2	150	0	-
Vert.	5470.000	PK	50.18	31.79	-25.15	0.00	2.10	58.92	-36.31	-27.0	9.3	102	34	-
Vert.	6636.000	PK	50.61	34.31	-33.36	0.00	2.10	53.66	-41.57	-27.0	14.5	191	337	-
Vert.	16590.000	PK	47.11	39.68	-25.33	0.00	-9.54	51.92	-43.31	-27.0	16.3	150	0	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80(OFDM) 5530 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 20 deg. C / 23 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-80(OFDM) 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11220.000	PK	46.63	37.64	-28.47	0.00	-9.54	46.26	73.9	27.6	157	336	-
Hori.	11220.000	AV	32.21	37.64	-28.47	0.00	-9.54	31.84	53.9	22.0	157	336	VBW:200 Hz
Vert.	11220.000	PK	46.78	37.64	-28.47	0.00	-9.54	46.41	73.9	27.4	147	264	-
Vert.	11220.000	AV	32.16	37.64	-28.47	0.00	-9.54	31.79	53.9	22.1	147	264	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	50.55	32.01	-25.06	0.00	2.10	59.60	-35.63	-27.0	8.6	100	34	-
Hori.	6732.000	PK	49.98	34.38	-33.36	0.00	2.10	53.10	-42.13	-27.0	15.1	194	47	-
Hori.	16830.000	PK	46.13	39.49	-24.89	0.00	-9.54	51.19	-44.04	-27.0	17.0	150	0	-
Vert.	5725.000	PK	50.04	32.01	-25.06	0.00	2.10	59.09	-36.14	-27.0	9.1	115	36	-
Vert.	6732.000	PK	49.28	34.38	-33.36	0.00	2.10	52.40	-42.83	-27.0	15.8	193	332	-
Vert.	16830.000	PK	46.30	39.49	-24.89	0.00	-9.54	51.36	-43.87	-27.0	16.8	150	0	-

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

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

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

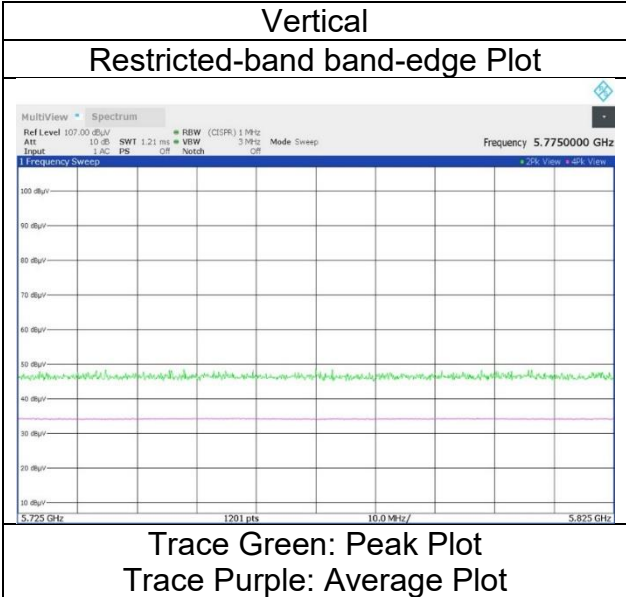
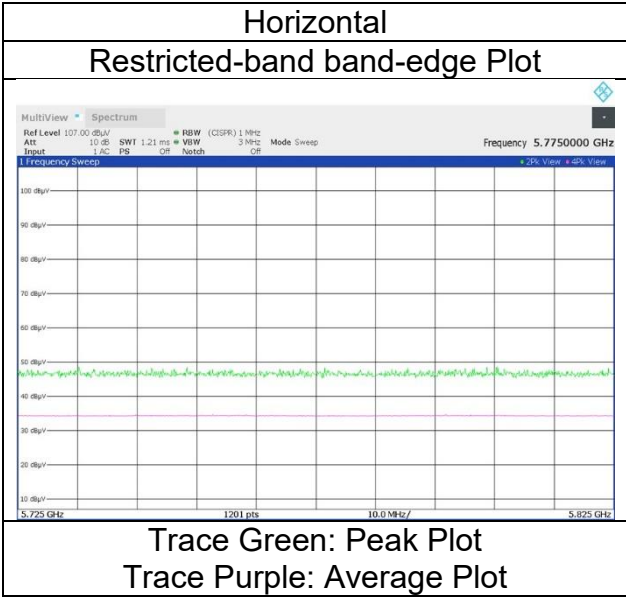
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80(OFDM) 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date March 13, 2024 March 18, 2024 March 19, 2024
Temperature / Humidity 19 deg. C / 40 % RH 20 deg. C / 32 % RH 20 deg. C / 23 % RH
Engineer Takahiro Suzuki Miku Ikudome Miku Ikudome
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-80(OFDM) 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11380.000	PK	46.64	37.94	-28.17	0.00	-9.54	46.87	73.9	27.0	151	218	-
Hori.	11380.000	AV	32.26	37.94	-28.17	0.00	-9.54	32.49	53.9	21.4	151	218	VBW:200 Hz
Vert.	11380.000	PK	46.55	37.94	-28.17	0.00	-9.54	46.78	73.9	27.1	150	359	-
Vert.	11380.000	AV	32.22	37.94	-28.17	0.00	-9.54	32.45	53.9	21.4	150	359	VBW:200 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17070.000	PK	46.93	39.80	-24.53	0.00	-9.54	52.66	-42.57	-27.0	15.5	150	0	-
Vert.	17070.000	PK	46.47	39.80	-24.53	0.00	-9.54	52.20	-43.03	-27.0	16.0	150	0	-

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

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

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

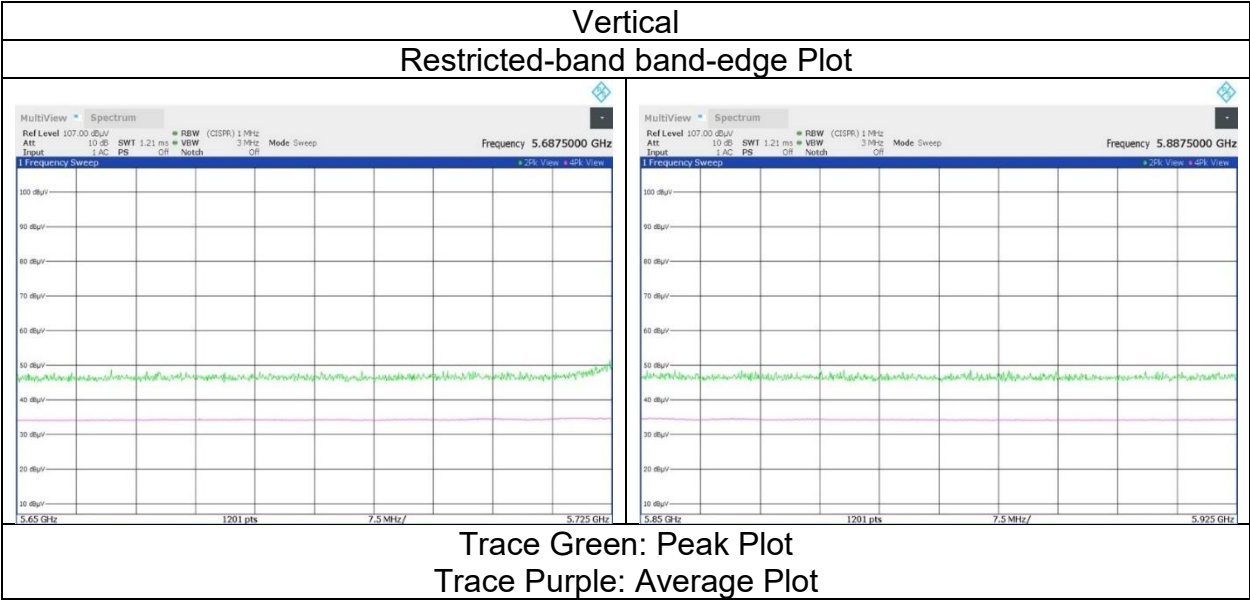
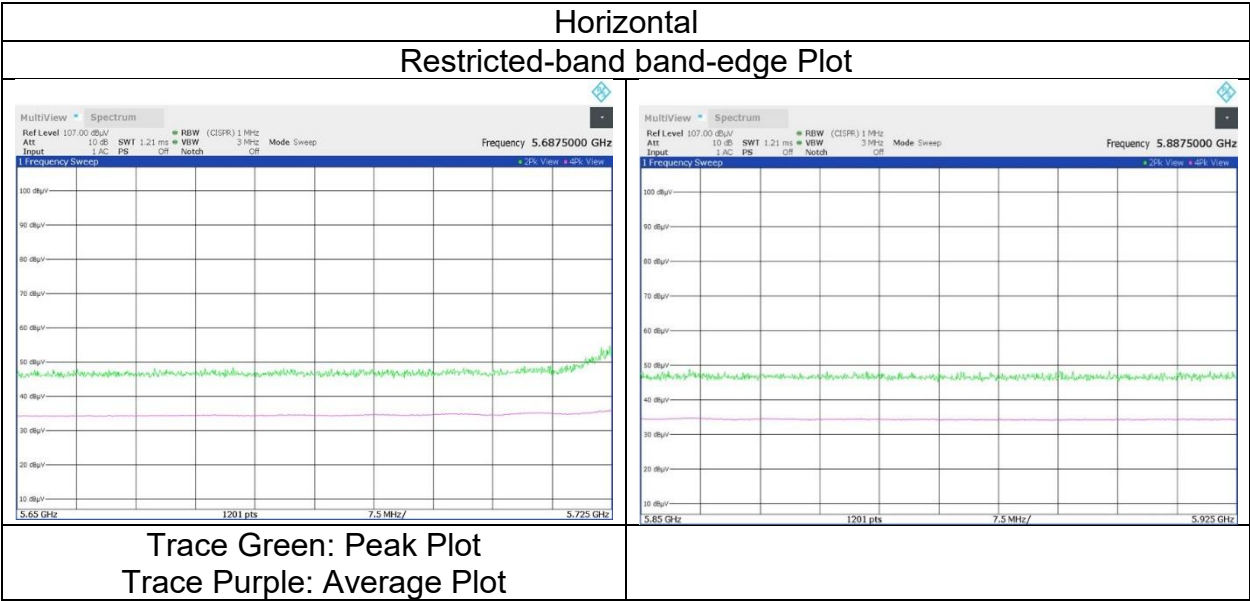
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 13, 2024
Temperature / Humidity	19 deg. C / 40 % RH
Engineer	Takahiro Suzuki
Mode	Tx 11ax-80(OFDM) 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: slot



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.24	32.09	-25.53	-	2.10	56.90	73.9	17.0	122	45	-
Hori.	5150.000	AV	35.16	32.09	-25.53	-	2.10	43.82	53.9	10.0	122	45	VBW: 1 kHz
Vert.	5150.000	PK	50.49	31.86	-25.53	-	2.10	58.92	73.9	14.9	145	350	-
Vert.	5150.000	AV	35.52	31.86	-25.53	-	2.10	43.95	53.9	9.9	145	350	VBW: 1 kHz

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

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

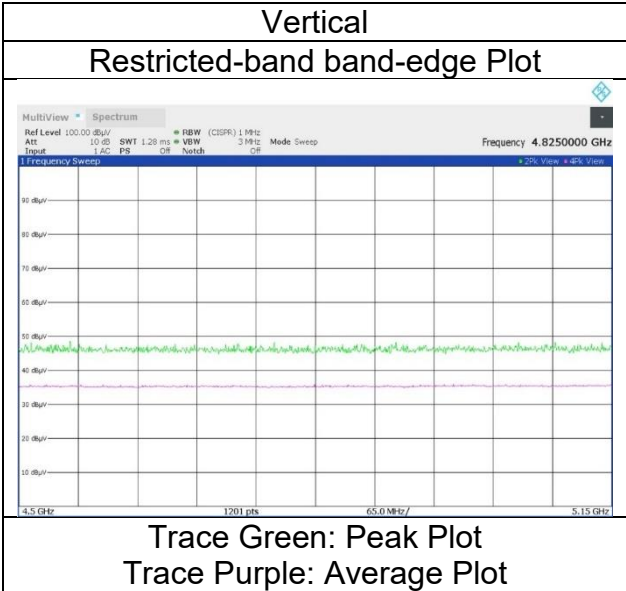
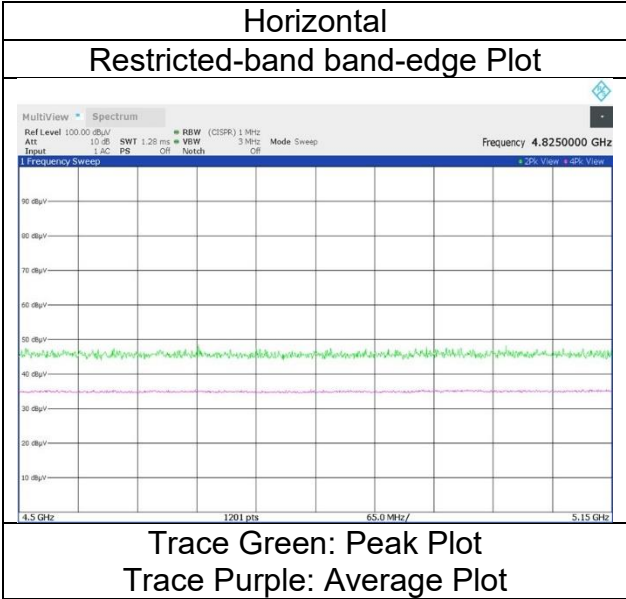
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5210 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 36
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.80	31.84	-25.29	-	2.10	58.45	73.9	15.4	122	39	-
Hori.	5350.000	AV	35.15	31.84	-25.29	-	2.10	43.80	53.9	10.1	122	39	VBW: 1 kHz
Vert.	5350.000	PK	50.59	31.58	-25.29	-	2.10	58.98	73.9	14.9	177	346	-
Vert.	5350.000	AV	35.68	31.58	-25.29	-	2.10	44.07	53.9	9.8	177	346	VBW: 1 kHz

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

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

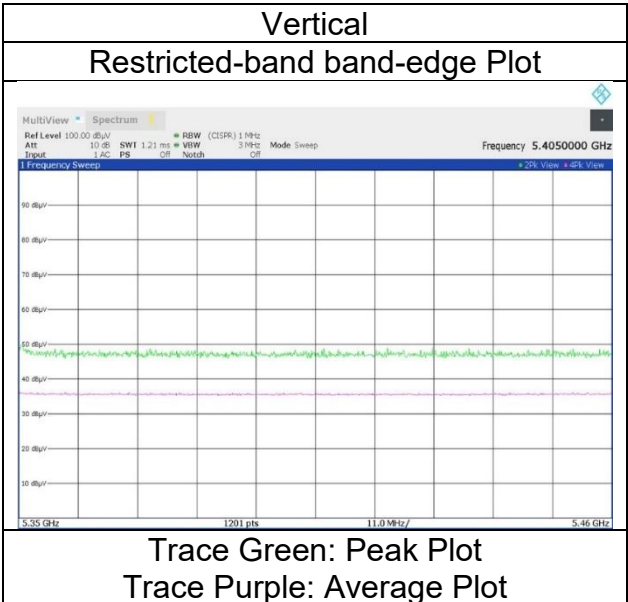
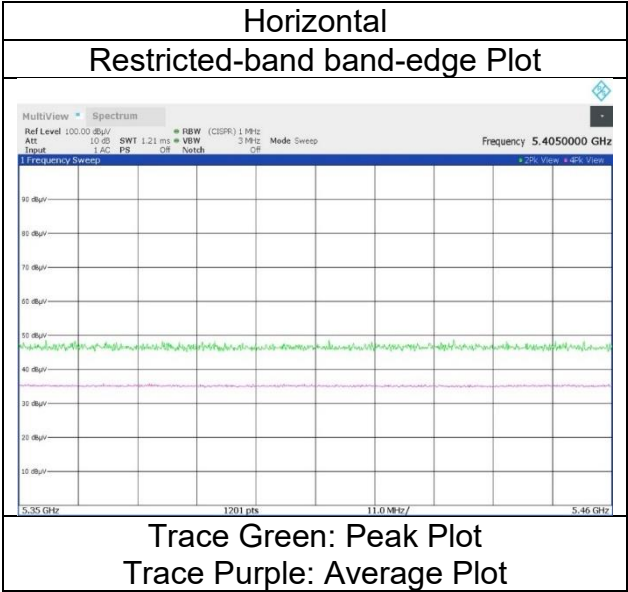
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5290 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.74	32.06	-25.16	-	2.10	57.74	73.9	16.1	113	45	-
Hori.	5460.000	AV	34.90	32.06	-25.16	-	2.10	43.90	53.9	10.0	113	45	VBW: 1 kHz
Vert.	5460.000	PK	50.76	31.78	-25.16	-	2.10	59.48	73.9	14.4	219	339	-
Vert.	5460.000	AV	35.40	31.78	-25.16	-	2.10	44.12	53.9	9.7	219	339	VBW: 1 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.22	32.07	-25.15	-	2.10	58.24	-36.99	-27.0	9.9	113	45	-
Vert.	5470.000	PK	51.51	31.79	-25.15	-	2.10	60.25	-34.98	-27.0	7.9	219	339	-

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

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

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

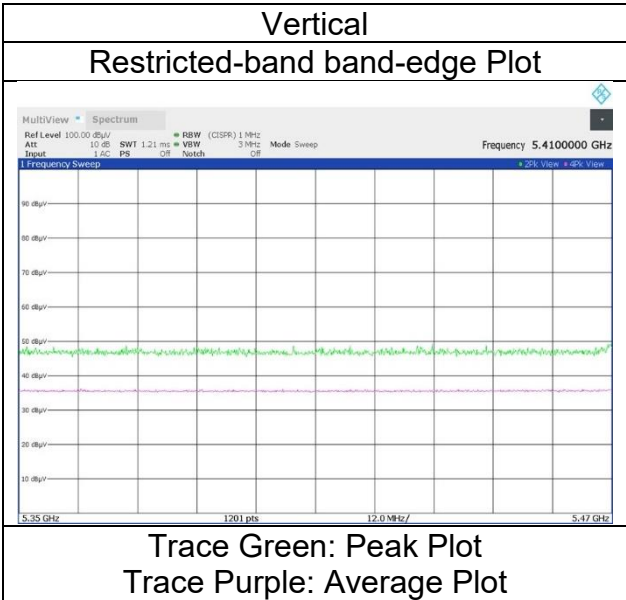
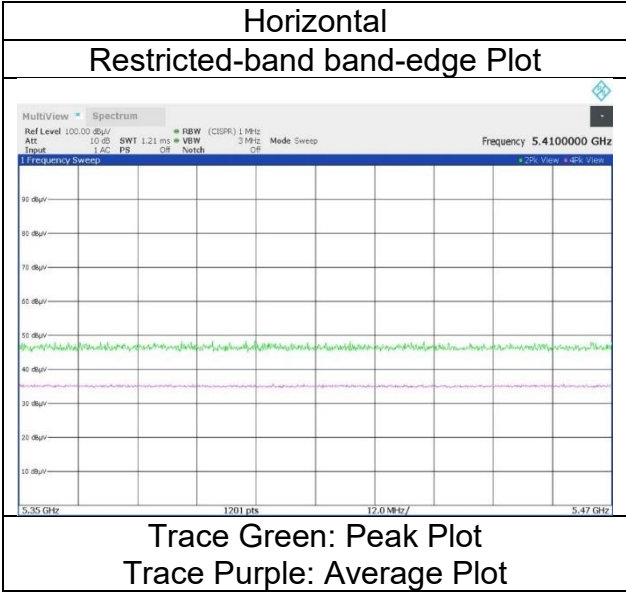
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5530 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 36
(Calculation) (above 1 GHz Outside of the restricted band)

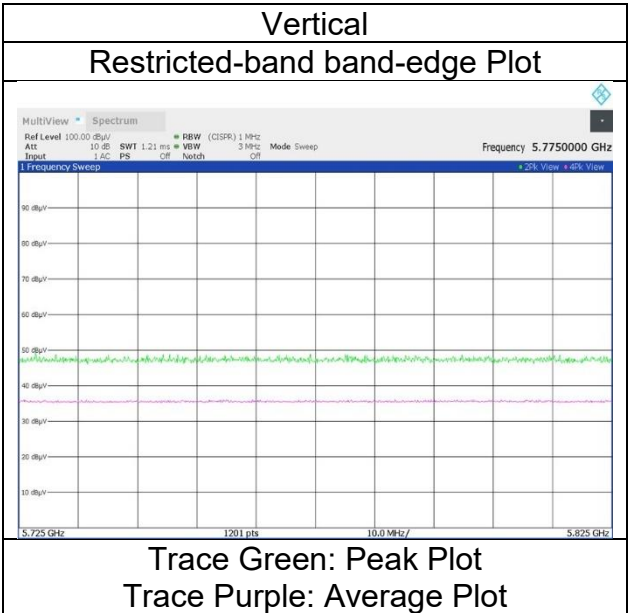
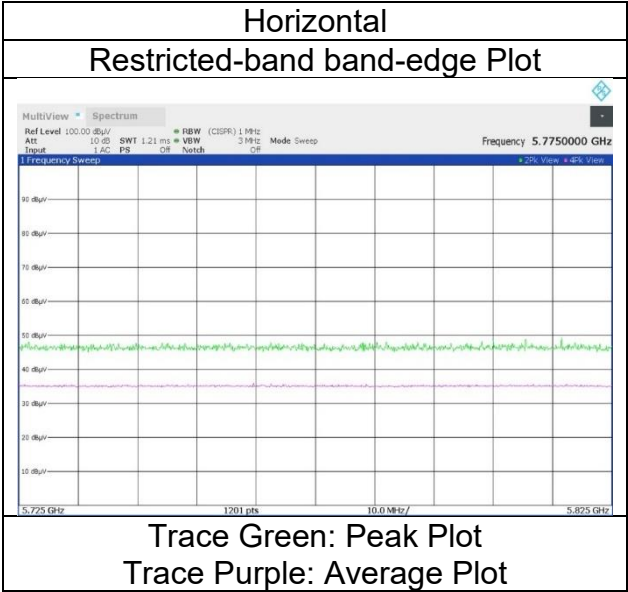
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.90	32.41	-25.06	-	2.10	58.35	-36.88	-27.0	9.8	113	25	-
Hori.	5799.279	PK	52.11	32.64	-25.03	-	2.10	61.82	-33.41	-27.0	6.4	113	25	-
Vert.	5725.000	PK	49.23	32.01	-25.06	-	2.10	58.28	-36.95	-27.0	9.9	100	0	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5610 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 0
(Calculation) (above 1 GHz Outside of the restricted band)

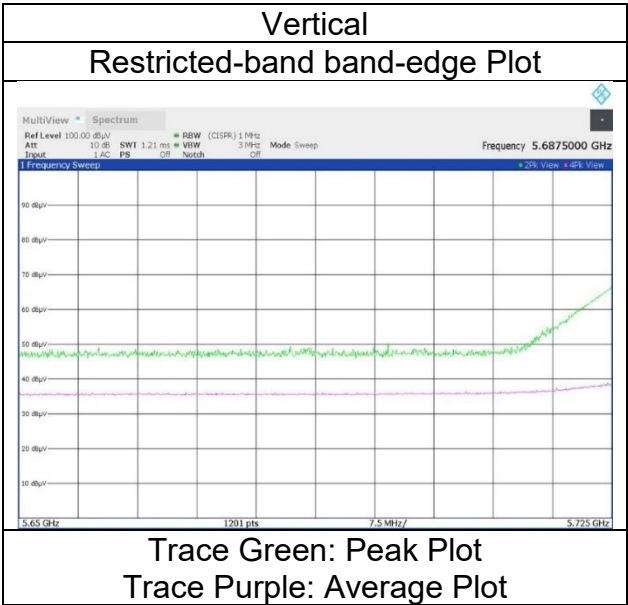
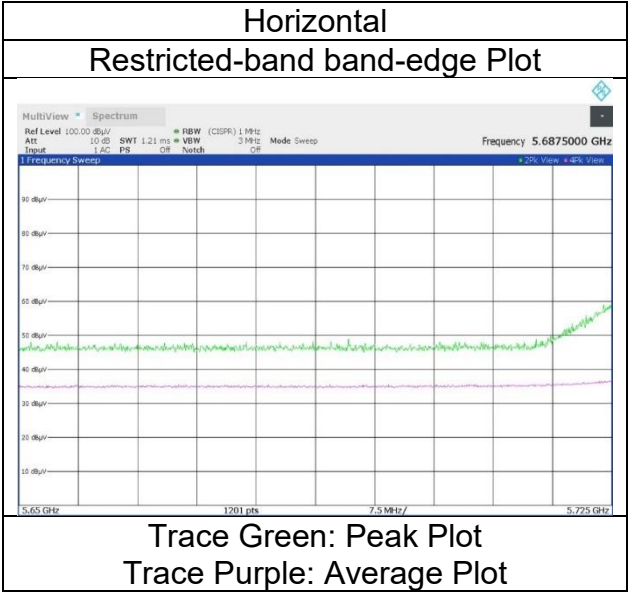
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.79	32.19	-25.07	-	2.10	58.01	-37.22	-27.0	10.2	114	45	-
Hori.	5700.000	PK	49.17	32.33	-25.06	-	2.10	58.54	-36.69	10.0	46.6	114	45	-
Hori.	5720.000	PK	53.30	32.40	-25.05	-	2.10	62.75	-32.48	15.6	48.0	114	45	-
Hori.	5725.000	PK	59.02	32.41	-25.06	-	2.10	68.47	-26.76	27.0	53.7	114	45	-
Vert.	5650.000	PK	49.05	31.84	-25.07	-	2.10	57.92	-37.31	-27.0	10.3	203	326	-
Vert.	5700.000	PK	49.24	31.95	-25.06	-	2.10	58.23	-37.00	10.0	47.0	203	326	-
Vert.	5720.000	PK	57.48	31.99	-25.05	-	2.10	66.52	-28.71	15.6	44.3	203	326	-
Vert.	5725.000	PK	64.97	32.01	-25.06	-	2.10	74.02	-21.21	27.0	48.2	203	326	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 36
(Calculation) (above 1 GHz Outside of the restricted band)

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

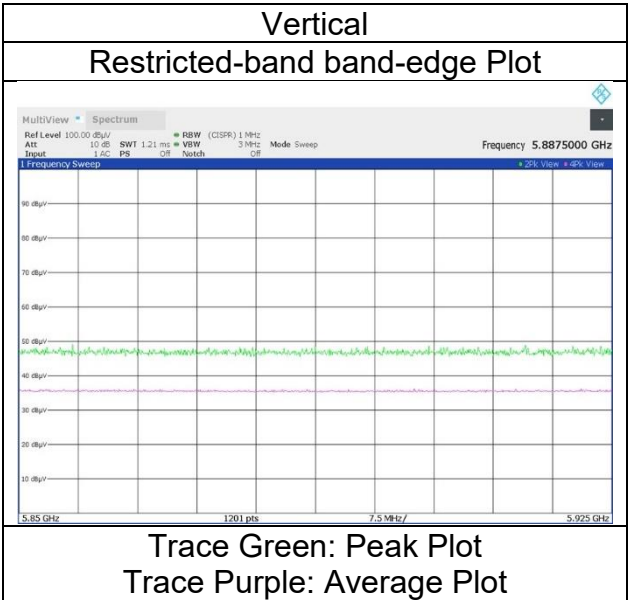
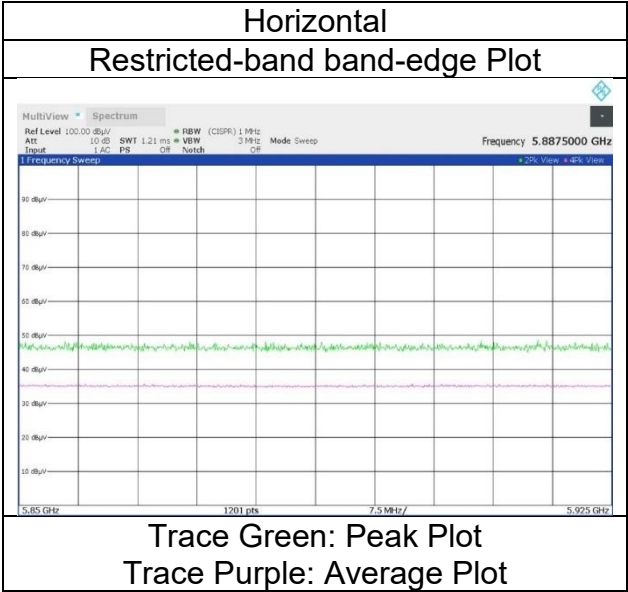
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.22	32.76	-25.01	-	2.10	58.07	-37.16	27.0	64.1	140	29	-
Hori.	5855.000	PK	48.76	32.77	-25.00	-	2.10	58.63	-36.60	15.6	52.2	140	29	-
Hori.	5875.000	PK	48.04	32.81	-25.00	-	2.10	57.95	-37.28	10.0	47.2	140	29	-
Hori.	5925.000	PK	48.22	32.88	-24.99	-	2.10	58.21	-37.02	-27.0	10.0	140	29	-
Vert.	5850.000	PK	49.62	32.33	-25.01	-	2.10	59.04	-36.19	27.0	63.1	199	330	-
Vert.	5855.000	PK	49.27	32.34	-25.00	-	2.10	58.71	-36.52	15.6	52.1	199	330	-
Vert.	5875.000	PK	49.15	32.38	-25.00	-	2.10	58.63	-36.60	10.0	46.6	199	330	-
Vert.	5925.000	PK	48.92	32.46	-24.99	-	2.10	58.49	-36.74	-27.0	9.7	199	330	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 26-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
April 28, 2024
20 deg. C / 65 % RH
Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Tx 11ax-80(OFDMA) 52-tone 5210 MHz
5G_CH 0: monopole 5G_CH 1: slot

WAC1
May 3, 2024
20 deg. C / 59 % RH
Yuta Shiba
(1 GHz to 6.4 GHz)

Index 37
(above 1 GHz Inside of the restricted band)

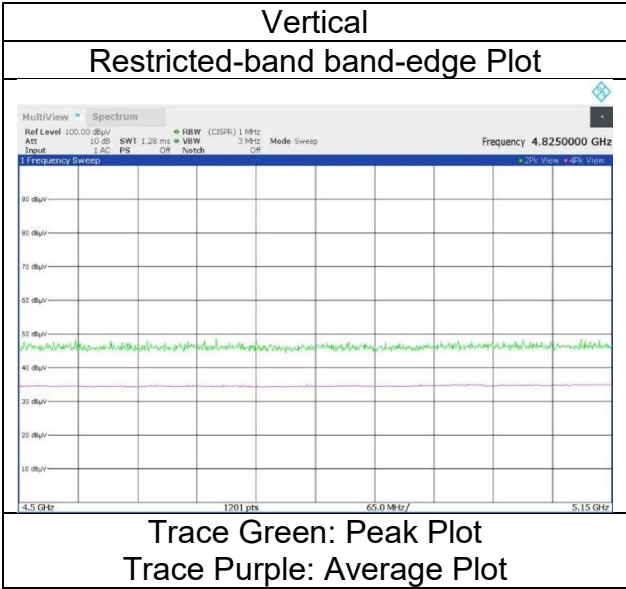
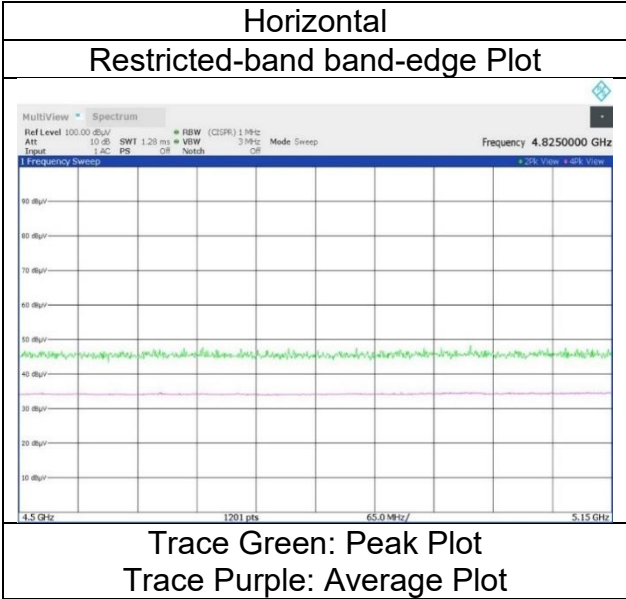
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.64	32.09	-25.53	-	2.10	57.30	73.9	16.6	125	32	-
Hori.	5150.000	AV	35.75	32.09	-25.53	-	2.10	44.41	53.9	9.4	125	32	VBW: 2 kHz
Vert.	5150.000	PK	50.39	31.86	-25.53	-	2.10	58.82	73.9	15.0	146	348	-
Vert.	5150.000	AV	36.36	31.86	-25.53	-	2.10	44.79	53.9	9.1	146	348	VBW: 2 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5210 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara (1 GHz to 6.4 GHz)	Yuta Shiba (1 GHz to 6.4 GHz)
Mode	Tx 11ax-80(OFDMA) 52-tone 5290 MHz	
Antenna type	5G CH 0: monopole 5G CH 1: slot	

Index 52

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.50	31.84	-25.29	-	2.10	57.15	73.9	16.7	127	40	-
Hori.	5350.000	AV	35.76	31.84	-25.29	-	2.10	44.41	53.9	9.4	127	40	VBW: 2 kHz
Vert.	5350.000	PK	51.44	31.58	-25.29	-	2.10	59.83	73.9	14.0	185	327	-
Vert.	5350.000	AV	36.46	31.58	-25.29	-	2.10	44.85	53.9	9.0	185	327	VBW: 2 kHz

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

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

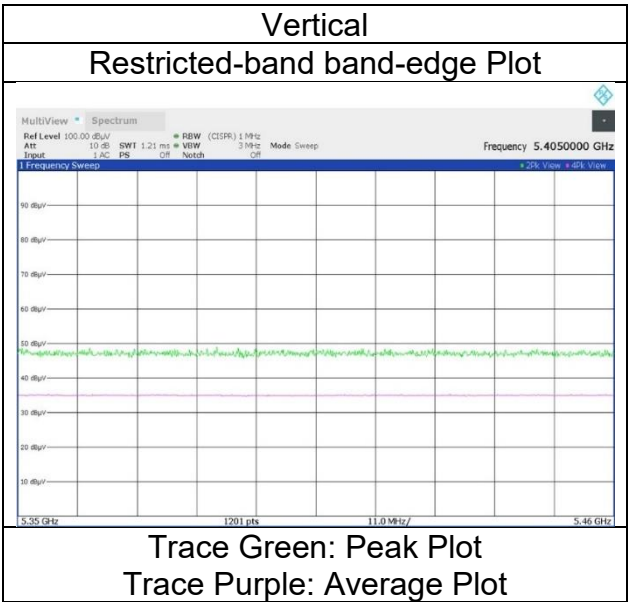
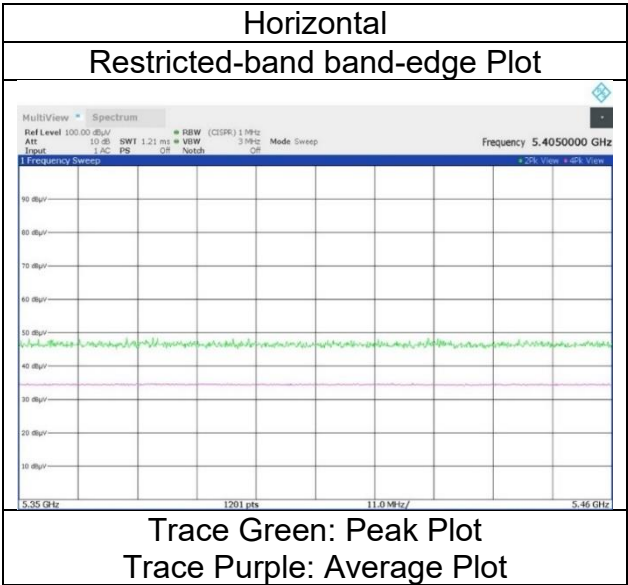
Distance factor : 1 GHz - 10 GHz : $20\log(3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5290 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 37
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.42	32.06	-25.16	-	2.10	57.42	73.9	16.4	105	43	-
Hori.	5460.000	AV	35.74	32.06	-25.16	-	2.10	44.74	53.9	9.1	105	43	VBW: 2 kHz
Vert.	5460.000	PK	49.58	31.78	-25.16	-	2.10	58.30	73.9	15.6	221	338	-
Vert.	5460.000	AV	35.58	31.78	-25.16	-	2.10	44.30	53.9	9.6	221	338	VBW: 2 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.92	32.07	-25.15	-	2.10	57.94	-37.29	-27.0	10.2	105	43	-
Vert.	5470.000	PK	51.75	31.79	-25.15	-	2.10	60.49	-34.74	-27.0	7.7	221	338	-

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

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

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

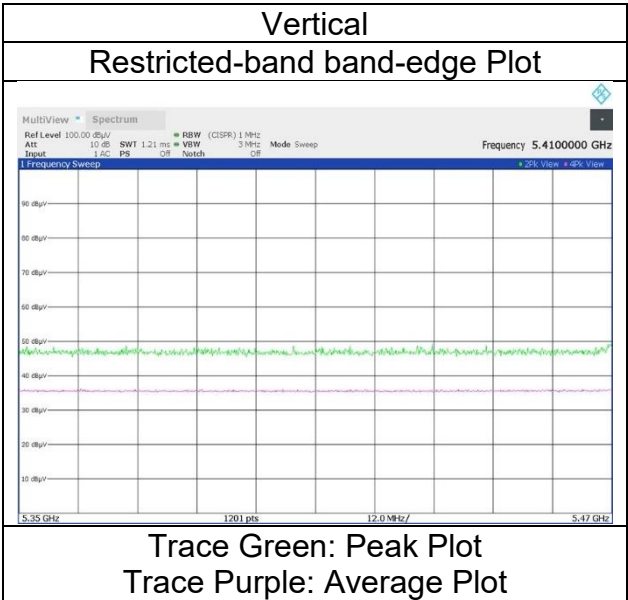
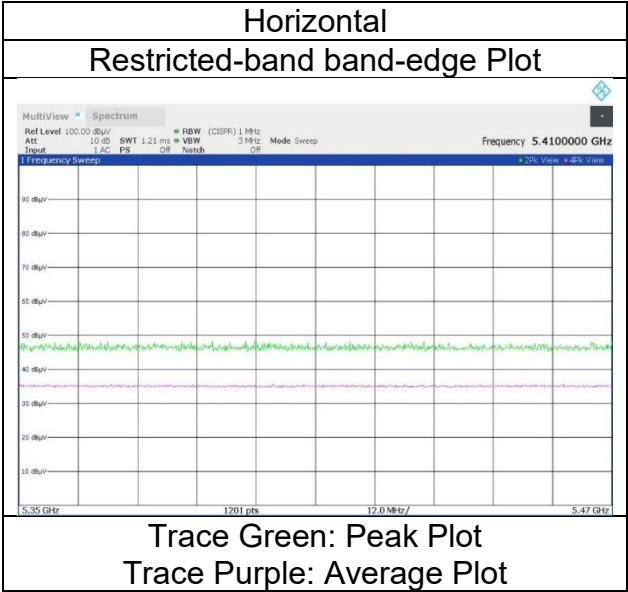
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5530 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 52
(Calculation) (above 1 GHz Outside of the restricted band)

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

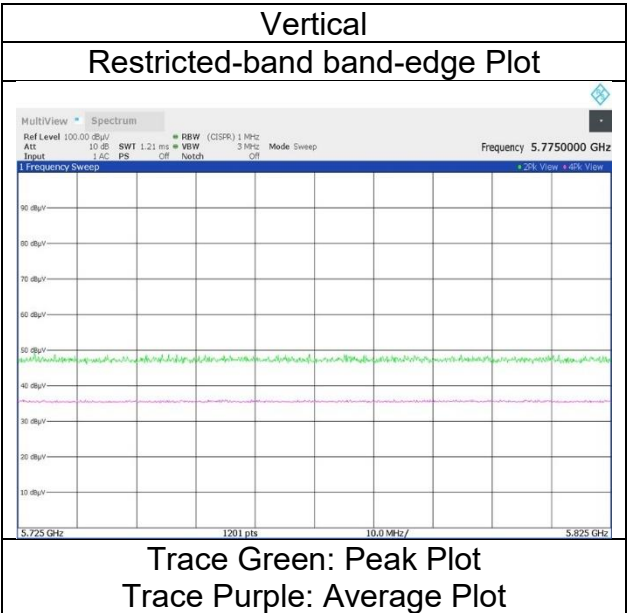
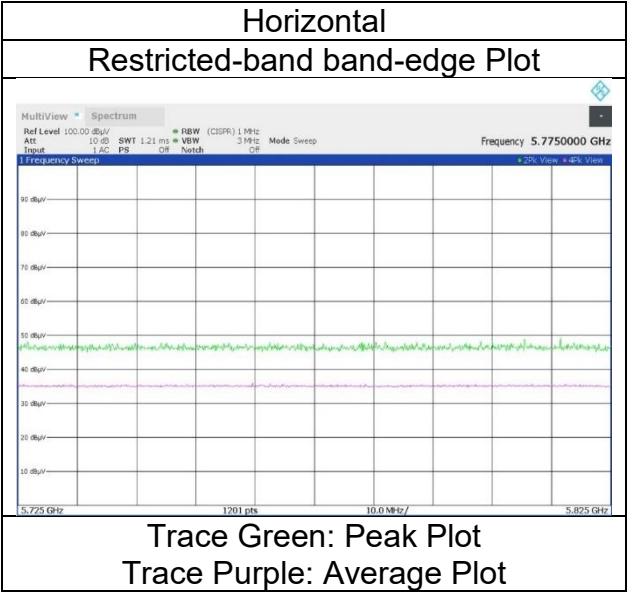
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	7.99	32.41	-25.06		2.10	17.44	-77.79	-27.0	50.7	109	26	-
Vert.	5725.000	PK	49.69	32.01	-25.06		2.10	58.74	-36.49	-27.0	9.4	236	332	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5610 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 37
(Calculation) (above 1 GHz Outside of the restricted band)

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

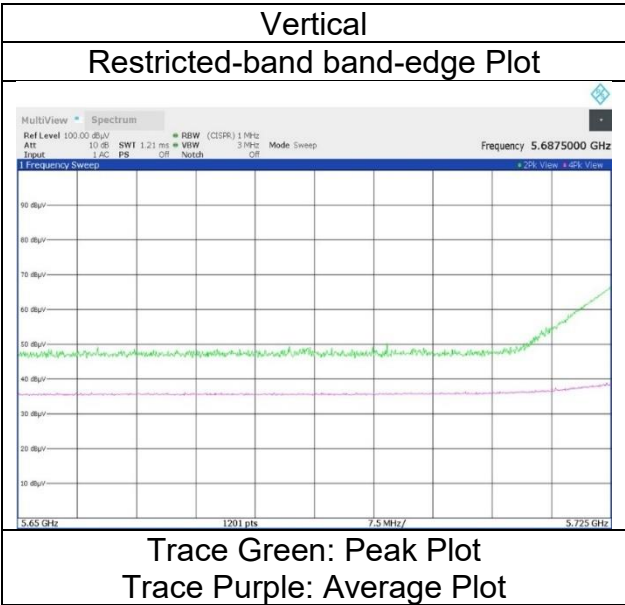
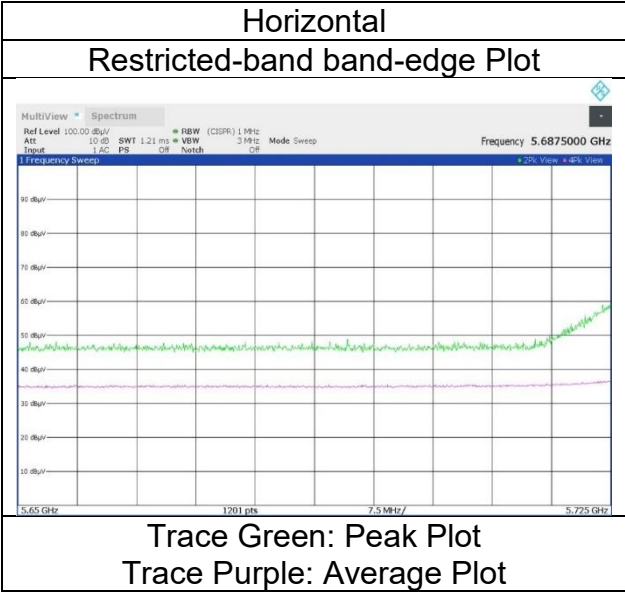
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.91	32.19	-25.07	-	2.10	57.13	-38.10	-27.0	11.1	114	29	-
Hori.	5700.000	PK	48.01	32.33	-25.06	-	2.10	57.38	-37.85	10.0	47.8	114	29	-
Hori.	5720.000	PK	53.96	32.40	-25.05	-	2.10	63.41	-31.82	15.6	47.4	114	29	-
Hori.	5725.000	PK	59.74	32.41	-25.06	-	2.10	69.19	-26.04	27.0	53.0	114	29	-
Vert.	5650.000	PK	49.19	31.84	-25.07	-	2.10	58.06	-37.17	-27.0	10.1	243	340	-
Vert.	5700.000	PK	50.06	31.95	-25.06	-	2.10	59.05	-36.18	10.0	46.1	243	340	-
Vert.	5720.000	PK	59.31	31.99	-25.05	-	2.10	68.35	-26.88	15.6	42.4	243	340	-
Vert.	5725.000	PK	66.80	32.01	-25.06	-	2.10	75.85	-19.38	27.0	46.3	243	340	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 52
(Calculation) (above 1 GHz Outside of the restricted band)

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

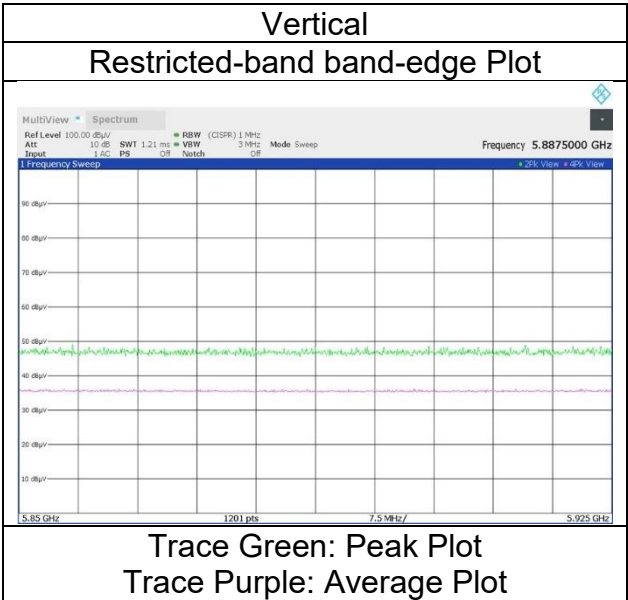
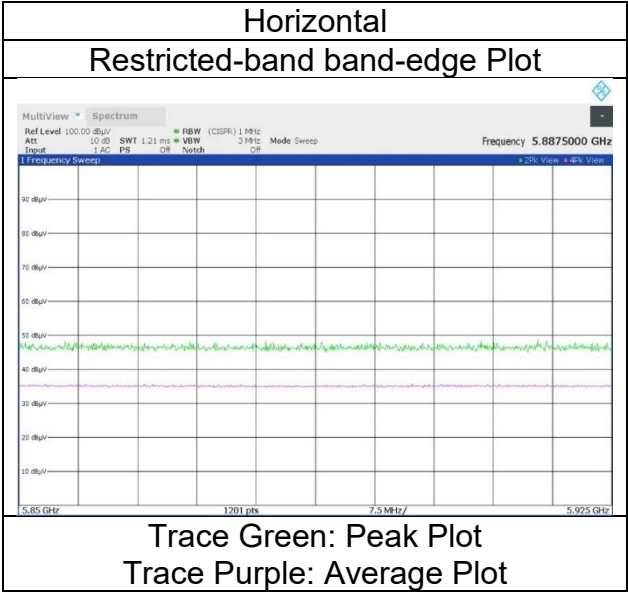
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.21	32.76	-25.01	-	2.10	58.06	-37.17	27.0	64.1	114	26	-
Hori.	5855.000	PK	48.43	32.77	-25.00	-	2.10	58.30	-36.93	15.6	52.5	114	26	-
Hori.	5875.000	PK	48.04	32.81	-25.00	-	2.10	57.95	-37.28	10.0	47.2	114	26	-
Hori.	5925.000	PK	47.83	32.88	-24.99	-	2.10	57.82	-37.41	-27.0	10.4	114	26	-
Vert.	5850.000	PK	49.27	32.33	-25.01	-	2.10	58.69	-36.54	27.0	63.5	199	333	-
Vert.	5855.000	PK	49.16	32.34	-25.00	-	2.10	58.60	-36.63	15.6	52.2	199	333	-
Vert.	5875.000	PK	49.24	32.38	-25.00	-	2.10	58.72	-36.51	10.0	46.5	199	333	-
Vert.	5925.000	PK	49.23	32.46	-24.99	-	2.10	58.80	-36.43	-27.0	9.4	199	333	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 52-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.74	32.09	-25.53		2.10	58.40	73.9	15.5	125	37	-
Hori.	5150.000	AV	36.22	32.09	-25.53		2.10	44.88	53.9	9.0	125	37	VBW: 3 kHz
Vert.	5150.000	PK	50.79	31.86	-25.53		2.10	59.22	73.9	14.6	148	349	-
Vert.	5150.000	AV	37.10	31.86	-25.53		2.10	45.53	53.9	8.3	148	349	VBW: 3 kHz

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

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

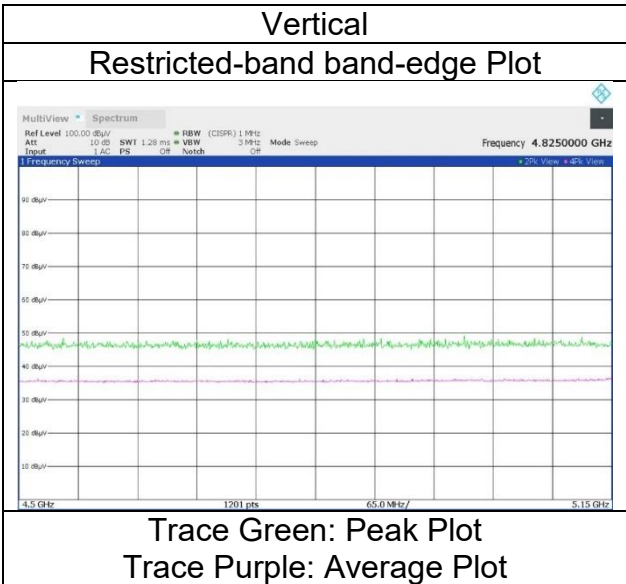
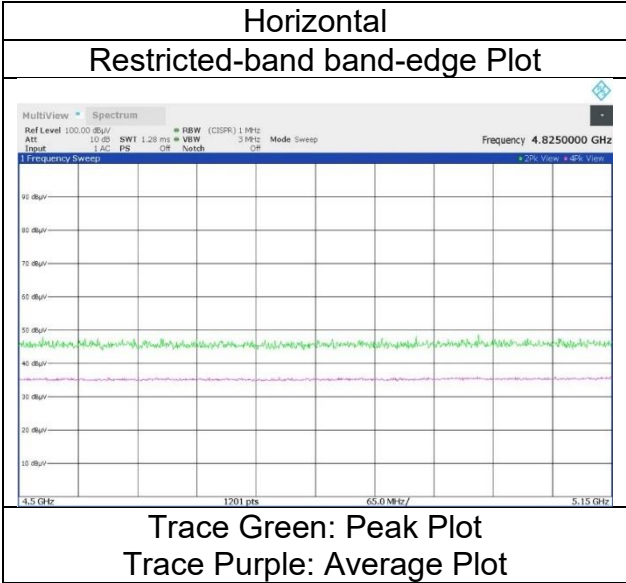
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5210 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 60
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.31	31.84	-25.29	-	2.10	56.96	73.9	16.9	122	37	-
Hori.	5350.000	AV	36.32	31.84	-25.29	-	2.10	44.97	53.9	8.9	122	37	VBW: 3 kHz
Vert.	5350.000	PK	50.30	31.58	-25.29	-	2.10	58.69	73.9	15.2	181	339	-
Vert.	5350.000	AV	36.82	31.58	-25.29	-	2.10	45.21	53.9	8.6	181	339	VBW: 3 kHz

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

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

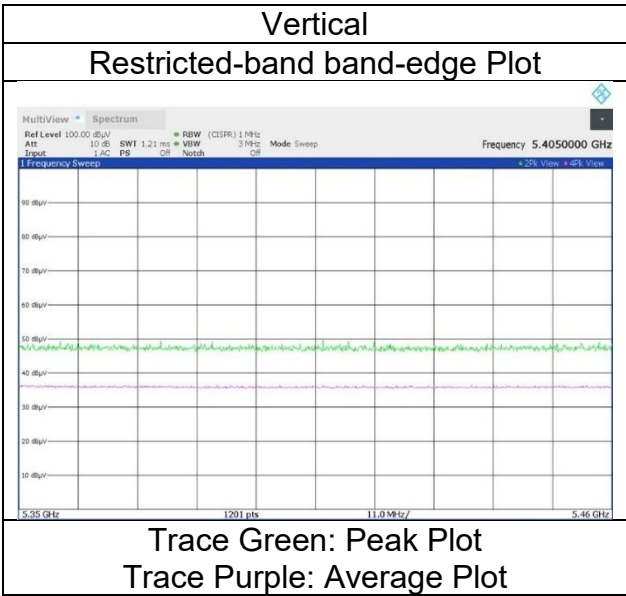
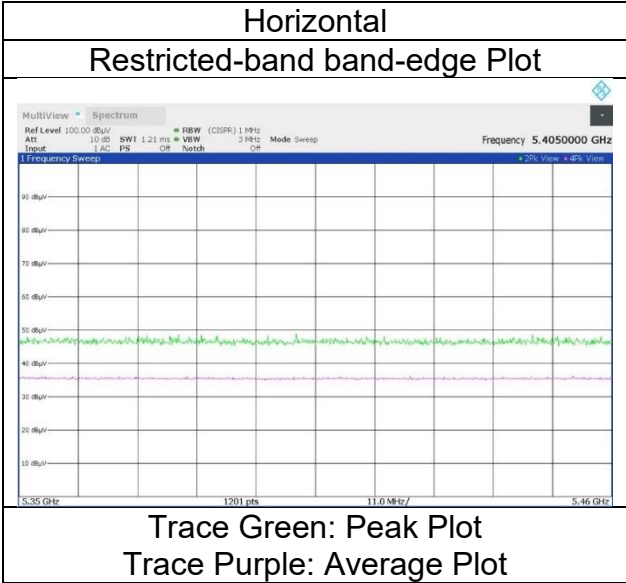
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5290 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.52	32.06	-25.16	-	2.10	57.52	73.9	16.3	106	43	-
Hori.	5460.000	AV	35.73	32.06	-25.16	-	2.10	44.73	53.9	9.1	106	43	VBW: 3 kHz
Vert.	5460.000	PK	49.70	31.78	-25.16	-	2.10	58.42	73.9	15.4	249	336	-
Vert.	5460.000	AV	36.45	31.78	-25.16	-	2.10	45.17	53.9	8.7	249	336	VBW: 3 kHz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.44	32.07	-25.15	-	2.10	57.46	-37.77	-27.0	10.7	106	43	-
Vert.	5470.000	PK	51.44	31.79	-25.15	-	2.10	60.18	-35.05	-27.0	8.0	249	336	-

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

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

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

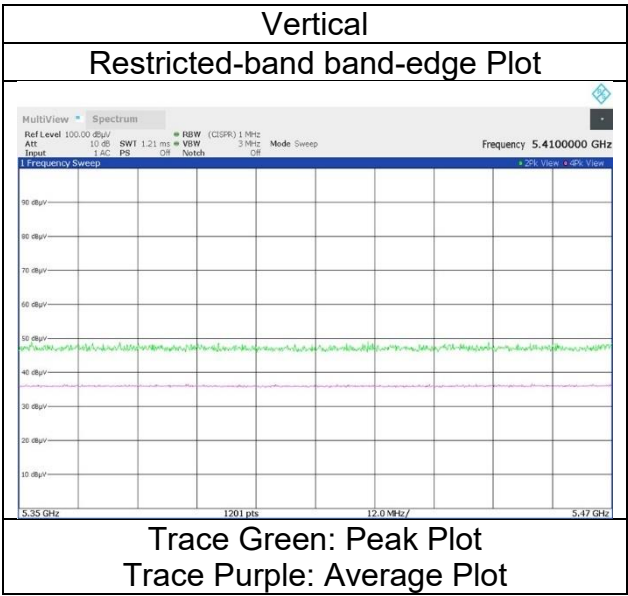
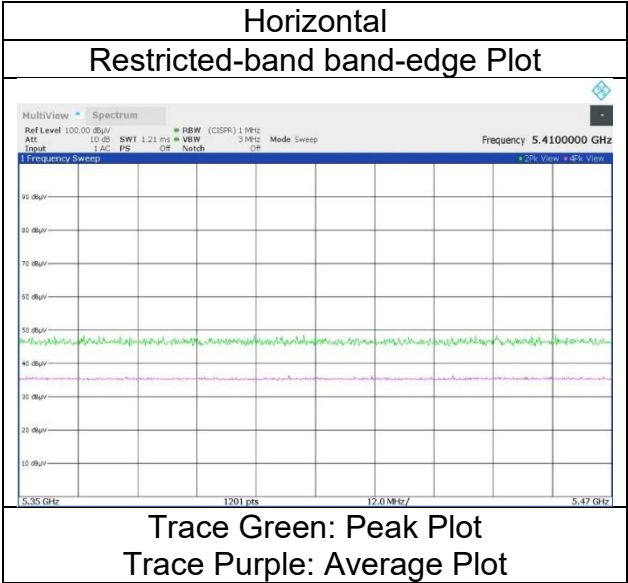
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5530 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 60
(Calculation) (above 1 GHz Outside of the restricted band)

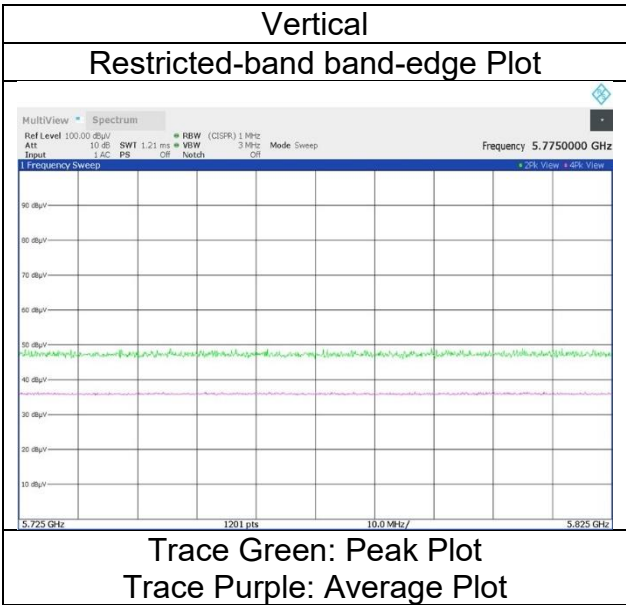
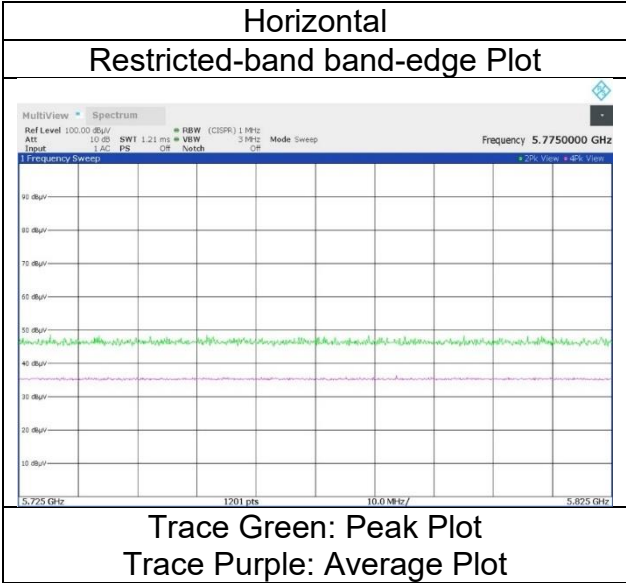
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.95	32.41	-25.06	-	2.10	58.40	-36.83	-27.0	9.8	113	26	-
Vert.	5725.000	PK	49.22	32.01	-25.06	-	2.10	58.27	-36.96	-27.0	9.9	225	326	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5610 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 53
(Calculation) (above 1 GHz Outside of the restricted band)

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

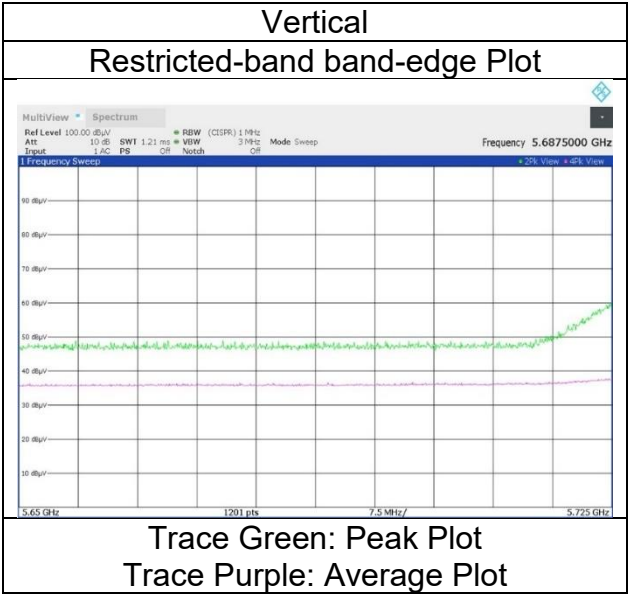
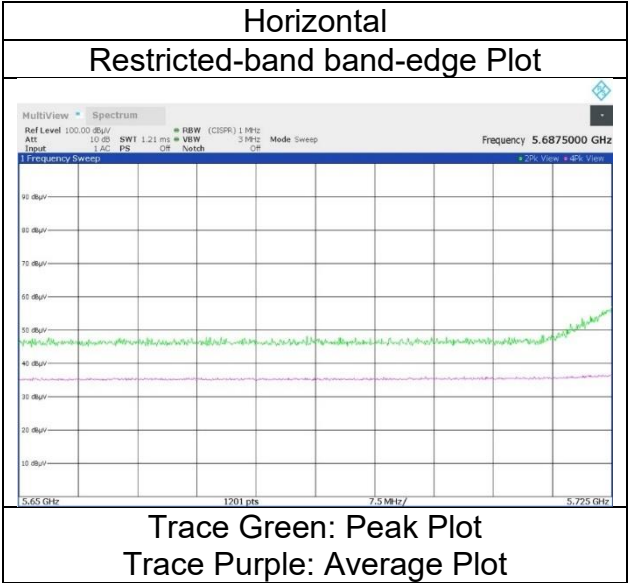
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.47	32.19	-25.07	-	2.10	57.69	-37.54	-27.0	10.5	102	26	-
Hori.	5700.000	PK	48.98	32.33	-25.06	-	2.10	58.35	-36.88	10.0	46.8	102	26	-
Hori.	5720.000	PK	51.98	32.40	-25.05	-	2.10	61.43	-33.80	15.6	49.4	102	26	-
Hori.	5725.000	PK	58.05	32.41	-25.06	-	2.10	67.50	-27.73	27.0	54.7	102	26	-
Vert.	5650.000	PK	49.07	31.84	-25.07	-	2.10	57.94	-37.29	-27.0	10.2	204	332	-
Vert.	5700.000	PK	48.86	31.95	-25.06	-	2.10	57.85	-37.38	10.0	47.3	204	332	-
Vert.	5720.000	PK	54.16	31.99	-25.05	-	2.10	63.20	-32.03	15.6	47.6	204	332	-
Vert.	5725.000	PK	60.98	32.01	-25.06	-	2.10	70.03	-25.20	27.0	52.2	204	332	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 3, 2024
Temperature / Humidity 20 deg. C / 65 % RH 20 deg. C / 59 % RH
Engineer Yusuke Tanikawara Yuta Shiba
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 60
(Calculation) (above 1 GHz Outside of the restricted band)

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

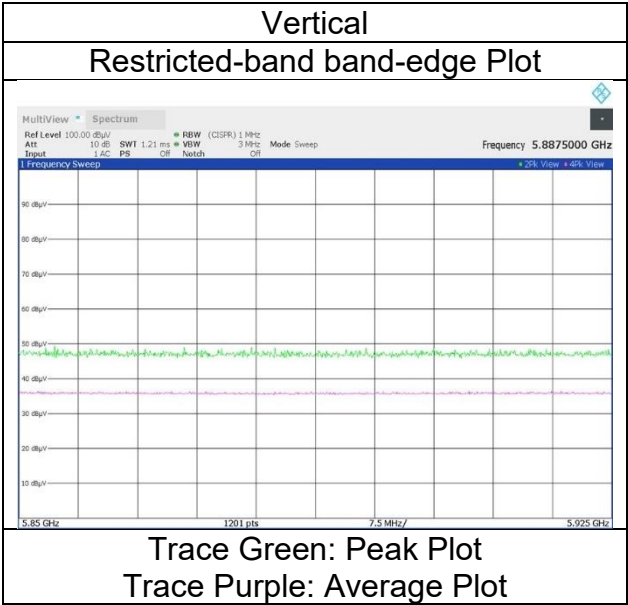
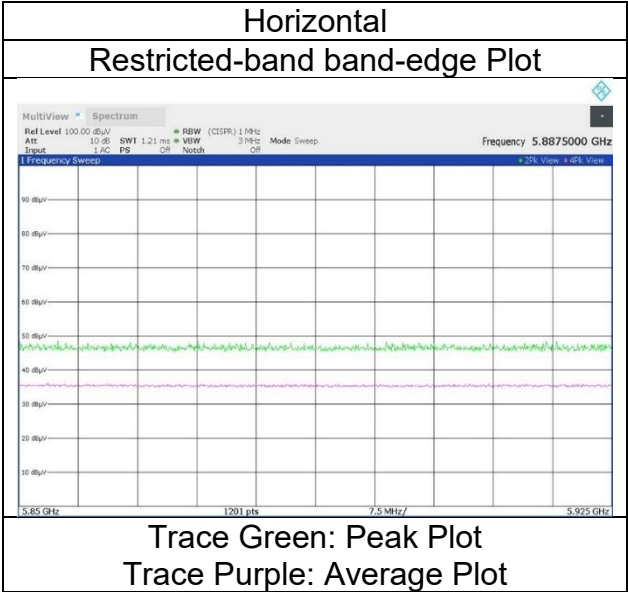
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.31	32.76	-25.01	-	2.10	59.16	-36.07	27.0	63.0	125	27	-
Hori.	5855.000	PK	49.02	32.77	-25.00	-	2.10	58.89	-36.34	15.6	51.9	125	27	-
Hori.	5875.000	PK	48.52	32.81	-25.00	-	2.10	58.43	-36.80	10.0	46.8	125	27	-
Hori.	5925.000	PK	48.51	32.88	-24.99	-	2.10	58.50	-36.73	-27.0	9.7	125	27	-
Vert.	5850.000	PK	49.35	32.33	-25.01	-	2.10	58.77	-36.46	27.0	63.4	191	327	-
Vert.	5855.000	PK	49.01	32.34	-25.00	-	2.10	58.45	-36.78	15.6	52.3	191	327	-
Vert.	5875.000	PK	49.02	32.38	-25.00	-	2.10	58.50	-36.73	10.0	46.7	191	327	-
Vert.	5925.000	PK	49.14	32.46	-24.99	-	2.10	58.71	-36.52	-27.0	9.5	191	327	-

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 3, 2024
Temperature / Humidity	20 deg. C / 65 % RH	20 deg. C / 59 % RH
Engineer	Yusuke Tanikawara	Yuta Shiba
Mode	Tx 11ax-80(OFDMA) 106-tone 5775 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 4, 2024
Temperature / Humidity 20 deg. C / 65 % RH 22 deg. C / 52 % RH
Engineer Yusuke Tanikawara Takahiro Suzuki
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.72	32.09	-25.53	-	2.10	59.38	73.9	14.5	157	42	-
Hori.	5150.000	AV	34.89	32.09	-25.53	-	2.10	43.55	53.9	10.3	157	42	VBW: 500 Hz
Vert.	5150.000	PK	50.54	31.86	-25.53	-	2.10	58.97	73.9	14.9	148	350	-
Vert.	5150.000	AV	35.54	31.86	-25.53	-	2.10	43.97	53.9	9.9	148	350	VBW: 500 Hz

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

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

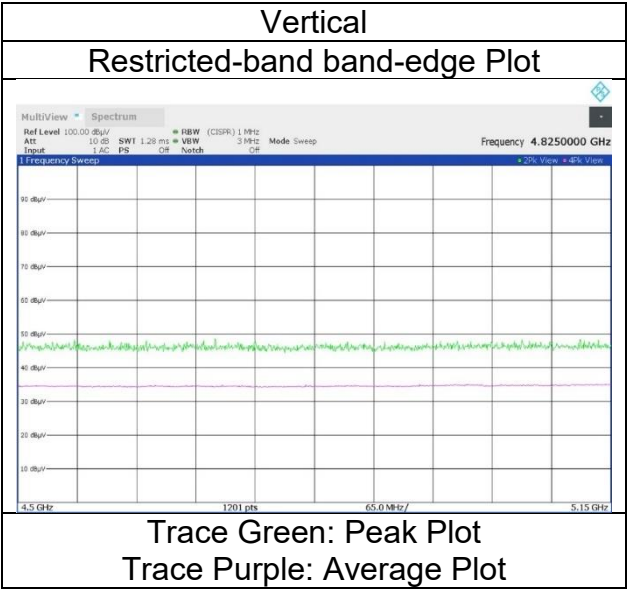
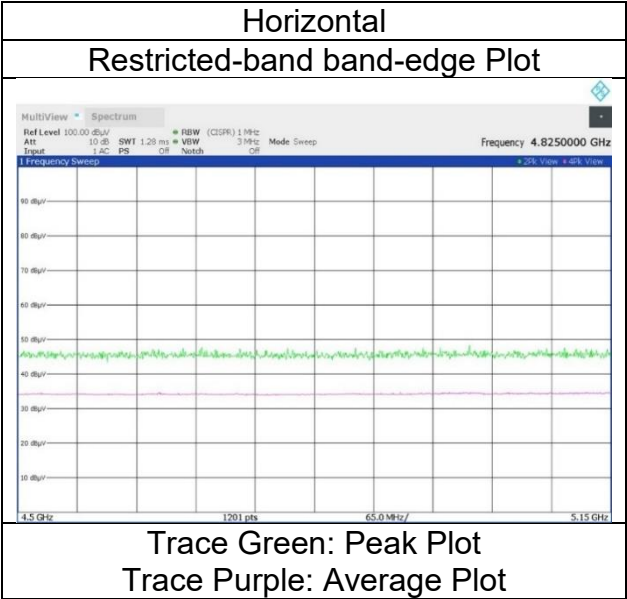
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 4, 2024
Temperature / Humidity	20 deg. C / 65 % RH	22 deg. C / 52 % RH
Engineer	Yusuke Tanikawara	Takahiro Suzuki
Mode	Tx 11ax-80(OFDMA) 242-tone 5210 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 4, 2024
Temperature / Humidity 20 deg. C / 65 % RH 22 deg. C / 52 % RH
Engineer Yusuke Tanikawara Takahiro Suzuki
 (1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

Index 64
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.77	31.84	-25.29	-	2.10	58.42	73.9	15.4	183	41	-
Hori.	5350.000	AV	34.76	31.84	-25.29	-	2.10	43.41	53.9	10.4	183	41	VBW: 500 Hz
Vert.	5350.000	PK	50.52	31.58	-25.29	-	2.10	58.91	73.9	14.9	210	331	-
Vert.	5350.000	AV	35.53	31.58	-25.29	-	2.10	43.92	53.9	9.9	210	331	VBW: 500 Hz

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

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

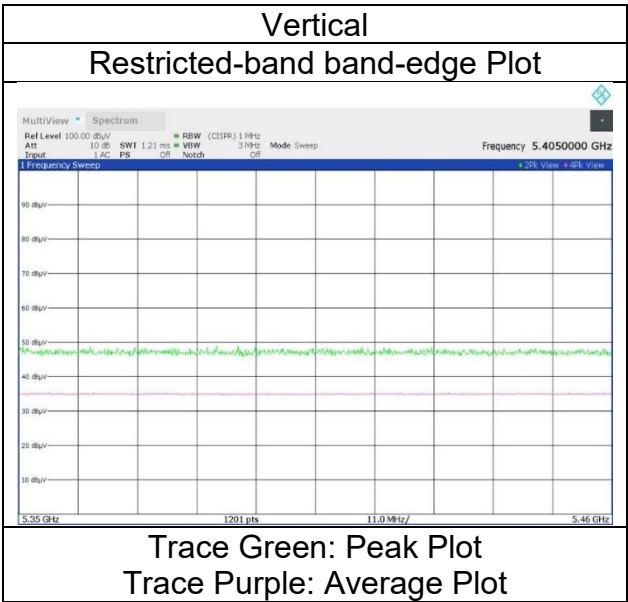
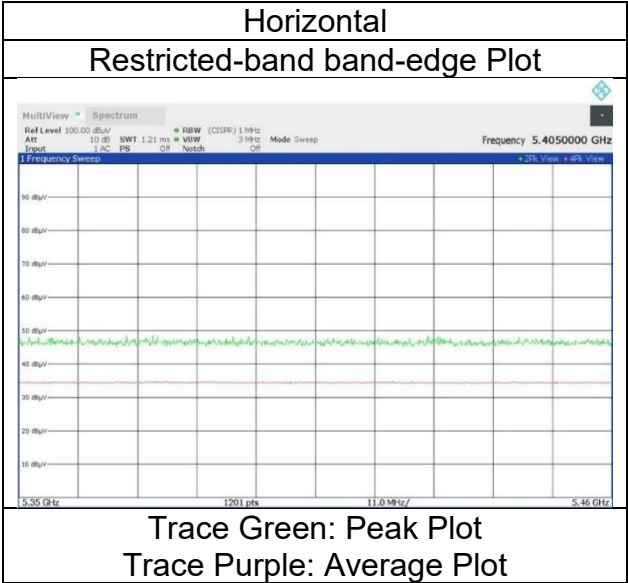
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	April 28, 2024	May 4, 2024
Temperature / Humidity	20 deg. C / 65 % RH	22 deg. C / 52 % RH
Engineer	Yusuke Tanikawara	Takahiro Suzuki
Mode	Tx 11ax-80(OFDMA) 242-tone 5290 MHz	
Antenna type	5G_CH 0: monopole 5G_CH 1: slot	

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 WAC1
Date April 28, 2024 May 4, 2024
Temperature / Humidity 20 deg. C / 65 % RH 22 deg. C / 52 % RH
Engineer Yusuke Tanikawara Takahiro Suzuki
(1 GHz to 6.4 GHz) (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: slot

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	50.44	32.06	-25.16	-	2.10	59.44	73.9	14.4	146	51	-
Hori.	5460.000	AV	34.71	32.06	-25.16	-	2.10	43.71	53.9	10.1	146	51	VBW: 500 Hz
Vert.	5460.000	PK	49.76	31.78	-25.16	-	2.10	58.48	73.9	15.4	264	332	-
Vert.	5460.000	AV	35.32	31.78	-25.16	-	2.10	44.04	53.9	9.8	264	332	VBW: 500 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.96	32.07	-25.15	-	2.10	58.98	-36.25	-27.0	9.2	146	51	-
Vert.	5470.000	PK	51.20	31.79	-25.15	-	2.10	59.94	-35.29	-27.0	8.2	264	332	-

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

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

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

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

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