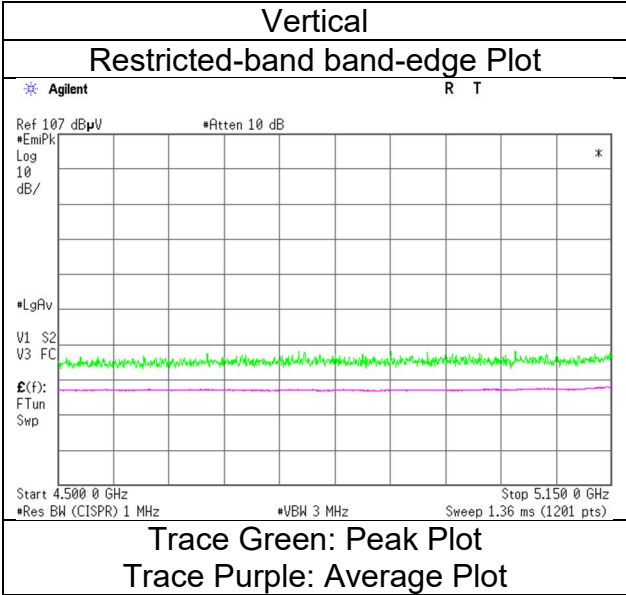
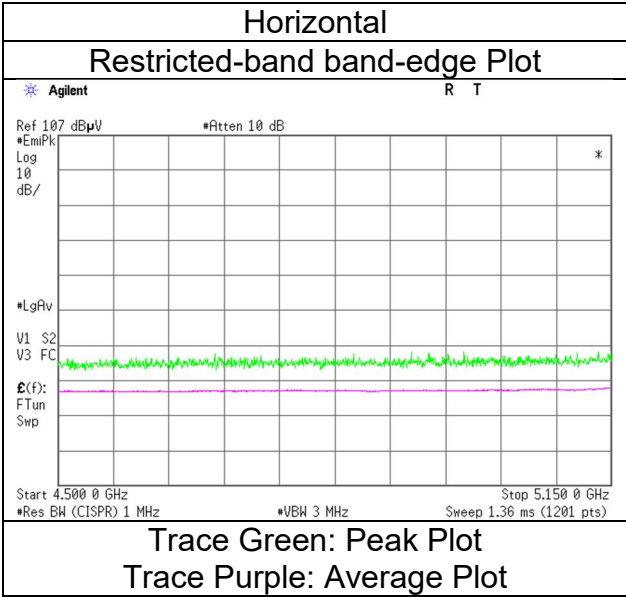


Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11ac-80 5210 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC 1	SAC 2	WAC 1
Date	March 21, 2024	January 6, 2024	January 10, 2024
Temperature / Humidity	19 deg. C / 23 % RH	23 deg. C / 30 % RH	20 deg. C / 35 % RH
Engineer	Miku Ikudome (30 MHz to 1 GHz)	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)
Semi Anechoic Chamber	SAC 3	WAC 1	WAC 1
Date	December 21, 2023	January 17, 2024	June 12, 2024
Temperature / Humidity	21 deg. C / 26 % RH	24 deg. C / 31 % RH	24 deg. C / 67 % RH
Engineer	Hiromasa Sato (10 GHz to 18 GHz)	Hiromasa Sato (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: monopole		

(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.	199.312	QP	33.00	14.40	7.03	32.96	0.00	21.47	43.5	22.0	152	82	-
Hori.	201.131	QP	38.70	11.27	7.11	32.96	0.00	24.12	43.5	19.3	253	76	-
Hori.	5350.000	PK	46.92	31.95	17.34	38.83	2.10	59.48	73.9	14.4	114	29	-
Hori.	5357.754	PK	47.55	31.97	17.35	38.84	2.10	60.13	73.9	13.7	114	29	-
Hori.	15870.000	PK	46.96	39.93	11.56	40.59	-9.54	48.32	73.9	25.5	150	0	-
Hori.	5350.000	AV	34.68	31.95	17.34	38.83	2.10	47.24	53.9	6.6	114	29	VBW:200 Hz
Hori.	5357.754	AV	34.99	31.97	17.35	38.84	2.10	47.57	53.9	6.3	114	29	VBW:200 Hz
Hori.	15870.000	AV	33.96	39.93	11.56	40.59	-9.54	35.32	53.9	18.5	150	0	VBW:200 Hz, Floor noise
Vert.	67.622	QP	41.70	9.33	6.37	33.05	0.00	24.35	40.0	15.6	100	89	-
Vert.	71.998	QP	44.20	9.19	6.45	33.06	0.00	26.78	40.0	13.2	100	76	-
Vert.	84.506	QP	45.40	9.01	6.80	33.08	0.00	28.13	40.0	11.8	100	32	-
Vert.	99.999	QP	54.60	9.51	6.88	33.09	0.00	37.90	43.5	5.6	100	82	-
Vert.	107.180	QP	51.80	9.92	6.82	33.08	0.00	35.46	43.5	8.0	100	258	-
Vert.	139.731	QP	48.70	11.56	6.81	33.06	0.00	34.01	43.5	9.4	100	82	-
Vert.	203.703	QP	34.80	11.24	7.12	32.95	0.00	20.21	43.5	23.2	100	78	-
Vert.	600.001	QP	26.50	19.45	8.13	31.91	0.00	22.17	46.0	23.8	100	172	-
Vert.	666.224	QP	22.70	19.56	8.26	31.64	0.00	18.88	46.0	27.1	100	243	-
Vert.	5350.000	PK	47.30	31.95	17.34	38.83	2.10	59.86	73.9	14.0	118	335	-
Vert.	5356.941	PK	47.91	31.97	17.35	38.84	2.10	60.49	73.9	13.4	118	335	-
Vert.	15870.000	PK	46.39	39.93	11.56	40.59	-9.54	47.75	73.9	26.1	150	0	-
Vert.	5350.000	AV	34.60	31.95	17.34	38.83	2.10	47.16	53.9	6.7	118	335	VBW:200 Hz
Vert.	5356.941	AV	35.34	31.97	17.35	38.84	2.10	47.92	53.9	5.9	118	335	VBW:200 Hz
Vert.	15870.000	AV	33.99	39.93	11.56	40.59	-9.54	35.35	53.9	18.5	150	0	VBW:200 Hz, Floor noise

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.	7053.295	PK	53.01	35.94	-33.48	-	2.10	57.57	-37.66	-27.0	10.6	165	84	-
Hori.	10580.000	PK	48.21	36.89	9.44	42.85	-9.54	42.15	-53.08	-27.0	26.0	194	212	-
Vert.	7052.946	PK	53.76	35.94	-33.26	-	2.10	58.54	-36.69	-27.0	9.6	100	359	-
Vert.	10580.000	PK	49.71	36.89	9.44	42.85	-9.54	43.65	-51.58	-27.0	24.5	154	258	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

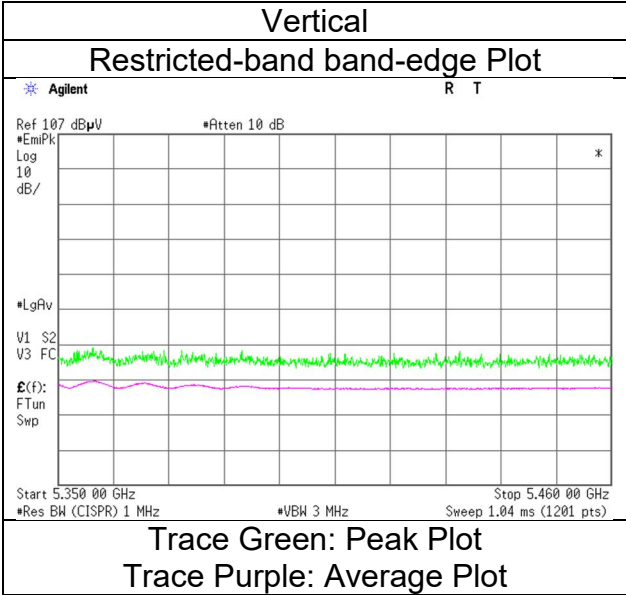
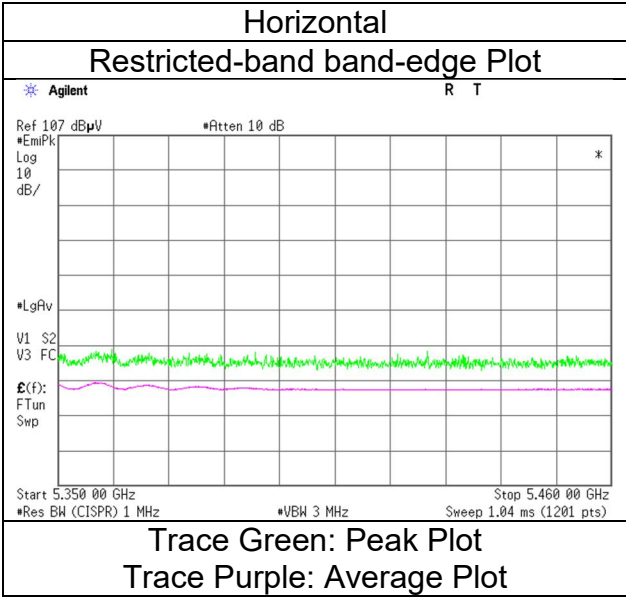
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 6, 2024
23 deg. C / 30 % RH
Makoto Hosaka
Tx 11ac-80 5290 MHz
5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3
Date	January 6, 2024	January 10, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	January 17, 2024	June 12, 2024	
Temperature / Humidity	24 deg. C / 31 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (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: monopole		

(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	45.49	32.14	17.43	38.89	2.10	58.27	73.9	15.6	139	32	-
Hori.	11060.000	PK	47.41	37.60	9.61	42.86	-9.54	42.22	73.9	31.6	196	258	-
Hori.	5460.000	AV	33.22	32.14	17.43	38.89	2.10	46.00	53.9	7.9	139	32	VBW:200 Hz
Hori.	11060.000	AV	35.64	37.60	9.61	42.86	-9.54	30.45	53.9	23.4	196	258	VBW:200 Hz
Vert.	5460.000	PK	45.64	32.14	17.43	38.89	2.10	58.42	73.9	15.4	144	339	-
Vert.	11060.000	PK	47.30	37.60	9.61	42.86	-9.54	42.11	73.9	31.7	184	255	-
Vert.	5460.000	AV	33.47	32.14	17.43	38.89	2.10	46.25	53.9	7.6	144	339	VBW:200 Hz
Vert.	11060.000	AV	35.00	37.60	9.61	42.86	-9.54	29.81	53.9	24.0	184	255	VBW:200 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	45.78	32.15	17.43	38.89	2.10	58.57	-36.66	-27.0	9.6	139	32	-
Hori.	6636.000	PK	49.02	34.31	-33.49	-	2.10	51.94	-43.29	-27.0	16.2	140	87	-
Hori.	16590.000	PK	46.24	39.92	12.33	40.62	-9.54	48.33	-46.90	-27.0	19.9	150	0	-
Vert.	5470.000	PK	46.20	32.15	17.43	38.89	2.10	58.99	-36.24	-27.0	9.2	144	339	-
Vert.	6635.817	PK	49.15	34.31	-33.36	-	2.10	52.20	-43.03	-27.0	16.0	141	0	-
Vert.	16590.000	PK	46.37	39.92	12.33	40.62	-9.54	48.46	-46.77	-27.0	19.7	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

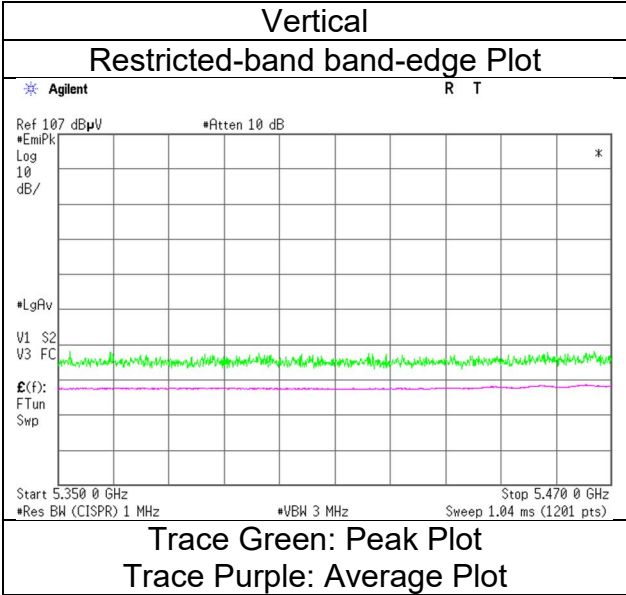
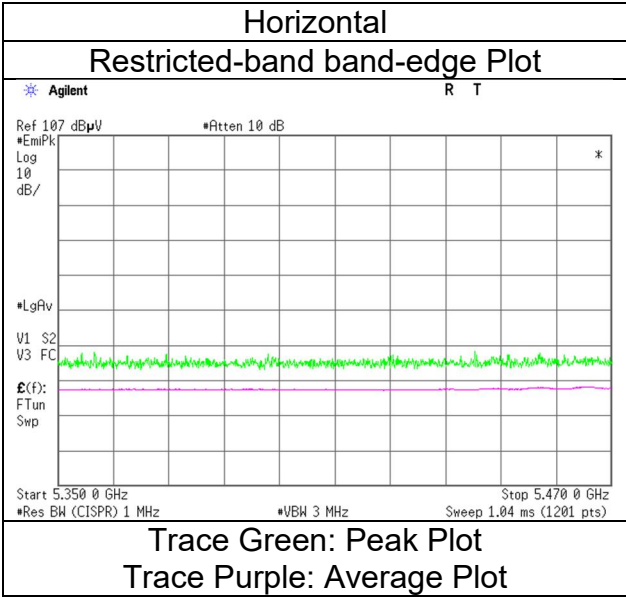
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11ac-80 5530 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3
Date	January 6, 2024	January 10, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	January 17, 2024	June 12, 2024	
Temperature / Humidity	24 deg. C / 31 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-80 5610 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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	46.11	37.87	9.70	42.76	-9.54	41.38	73.9	32.5	194	242	-
Hori.	11220.000	AV	34.72	37.87	9.70	42.76	-9.54	29.99	53.9	23.9	194	242	VBW:200 Hz
Vert.	11220.000	PK	46.73	37.87	9.70	42.76	-9.54	42.00	73.9	31.9	187	251	-
Vert.	11220.000	AV	34.54	37.87	9.70	42.76	-9.54	29.81	53.9	24.0	187	251	VBW:200 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.62	32.57	17.61	38.95	2.10	58.95	-36.28	-27.0	9.2	119	43	-
Hori.	6732.000	PK	49.11	34.38	-33.51	-	2.10	52.08	-43.15	-27.0	16.1	128	87	-
Hori.	16830.000	PK	46.54	39.51	12.42	40.54	-9.54	48.39	-46.84	-27.0	19.8	150	0	-
Vert.	5725.000	PK	45.33	32.57	17.61	38.95	2.10	58.66	-36.57	-27.0	9.5	154	348	-
Vert.	6731.656	PK	49.69	34.38	-33.36	-	2.10	52.81	-42.42	-27.0	15.4	122	195	-
Vert.	16830.000	PK	46.47	39.51	12.42	40.54	-9.54	48.32	-46.91	-27.0	19.9	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

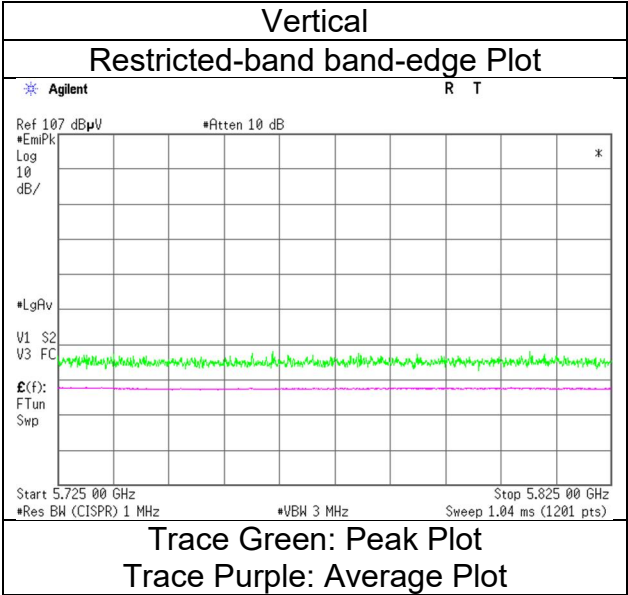
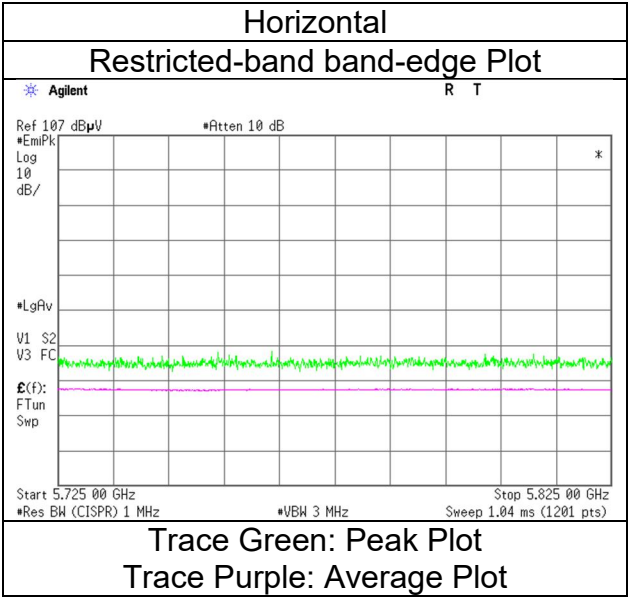
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 6, 2024
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Makoto Hosaka
Mode	Tx 11ac-80 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	SAC 2	WAC 1	SAC 3
Date	January 6, 2024	January 10, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	January 17, 2024	June 12, 2024	
Temperature / Humidity	24 deg. C / 31 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-80 5690 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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	48.12	38.23	9.79	42.66	-9.54	43.94	73.9	29.9	186	262	-
Hori.	11380.000	AV	36.20	38.23	9.79	42.66	-9.54	32.02	53.9	21.8	186	262	VBW:200 Hz
Vert.	11380.000	PK	47.93	38.23	9.79	42.66	-9.54	43.75	73.9	30.1	189	263	-
Vert.	11380.000	AV	34.99	38.23	9.79	42.66	-9.54	30.81	53.9	23.0	189	263	VBW:200 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17070.000	PK	46.31	39.78	12.51	40.44	-9.54	48.62	-46.61	-27.0	19.6	150	0	-
Vert.	17070.000	PK	46.32	39.78	12.51	40.44	-9.54	48.63	-46.60	-27.0	19.6	150	0	-

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

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

*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	SAC 2	WAC 1	SAC 3
Date	January 6, 2024	January 10, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 30 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	January 17, 2024	June 12, 2024	
Temperature / Humidity	24 deg. C / 31 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-80 5775 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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	48.59	38.34	9.88	42.56	-9.54	44.71	73.9	29.1	192	252	-
Hori.	11550.000	AV	36.27	38.34	9.88	42.56	-9.54	32.39	53.9	21.5	192	252	VBW:200 Hz
Vert.	11550.000	PK	48.37	38.34	9.88	42.56	-9.54	44.49	73.9	29.4	177	252	-
Vert.	11550.000	AV	36.24	38.34	9.88	42.56	-9.54	32.36	53.9	21.5	177	252	VBW:200 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.77	32.35	17.55	38.94	2.10	58.83	-36.40	-27.0	9.4	125	33	-
Hori.	5700.000	PK	46.54	32.48	17.59	38.95	2.10	59.76	-35.47	10.0	45.4	125	33	-
Hori.	5720.000	PK	48.97	32.55	17.60	38.95	2.10	62.27	-32.96	15.6	48.5	125	33	-
Hori.	5725.000	PK	53.34	32.57	17.61	38.95	2.10	66.67	-28.56	27.0	55.5	125	33	-
Hori.	5850.000	PK	45.20	32.90	17.71	38.97	2.10	58.94	-36.29	27.0	63.2	152	26	-
Hori.	5855.000	PK	45.82	32.91	17.71	38.97	2.10	59.57	-35.66	15.6	51.2	152	26	-
Hori.	5875.000	PK	45.91	32.96	17.73	38.98	2.10	59.72	-35.51	10.0	45.5	152	26	-
Hori.	5925.000	PK	45.43	33.04	17.76	38.99	2.10	59.34	-35.89	-27.0	8.8	152	26	-
Hori.	6930.000	PK	47.16	35.28	-33.56	-	2.10	50.98	-44.25	-27.0	17.2	162	83	-
Hori.	17325.000	PK	46.99	40.18	12.55	40.28	-9.54	49.90	-45.33	-27.0	18.3	150	0	-
Vert.	5650.000	PK	45.25	32.35	17.55	38.94	2.10	58.31	-36.92	-27.0	9.9	103	339	-
Vert.	5700.000	PK	46.08	32.48	17.59	38.95	2.10	59.30	-35.93	10.0	45.9	103	339	-
Vert.	5720.000	PK	49.52	32.55	17.60	38.95	2.10	62.82	-32.41	15.6	48.0	103	339	-
Vert.	5725.000	PK	54.10	32.57	17.61	38.95	2.10	67.43	-27.80	27.0	54.8	103	339	-
Vert.	5850.000	PK	46.17	32.90	17.71	38.97	2.10	59.91	-35.32	27.0	62.3	154	348	-
Vert.	5855.000	PK	45.94	32.91	17.71	38.97	2.10	59.69	-35.54	15.6	51.1	154	348	-
Vert.	5875.000	PK	46.16	32.96	17.73	38.98	2.10	59.97	-35.26	10.0	45.2	154	348	-
Vert.	5925.000	PK	45.54	33.04	17.76	38.99	2.10	59.45	-35.78	-27.0	8.7	154	348	-
Vert.	6930.138	PK	48.41	35.28	-33.35	-	2.10	52.44	-42.79	-27.0	15.7	161	193	-
Vert.	17325.000	PK	46.50	40.18	12.55	40.28	-9.54	49.41	-45.82	-27.0	18.8	150	0	-

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

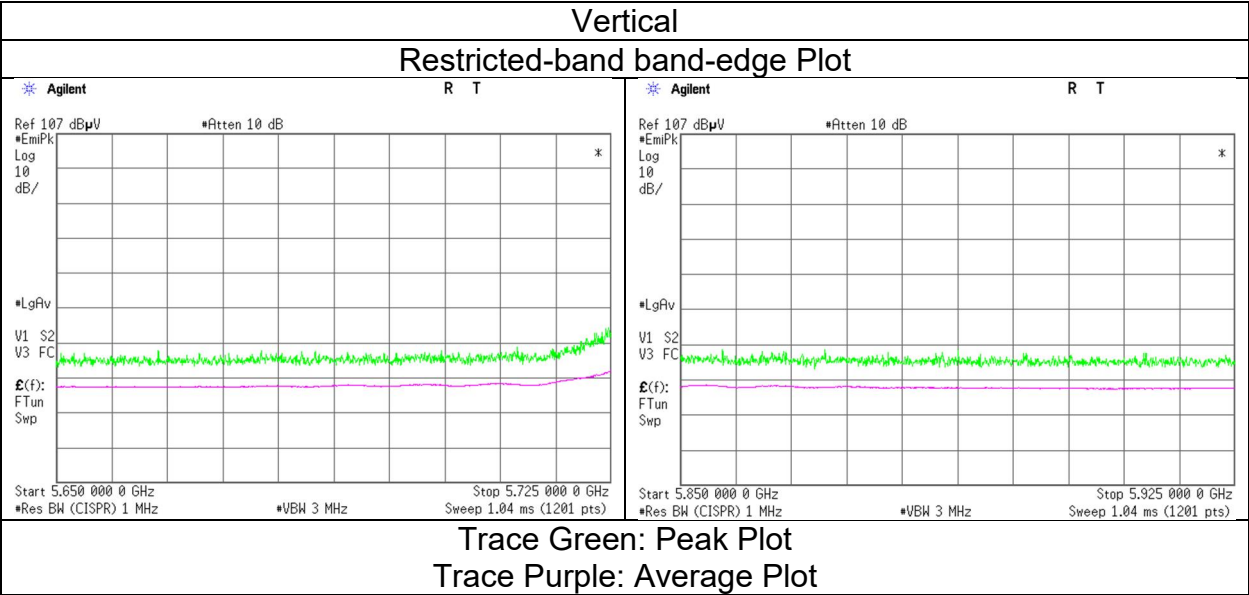
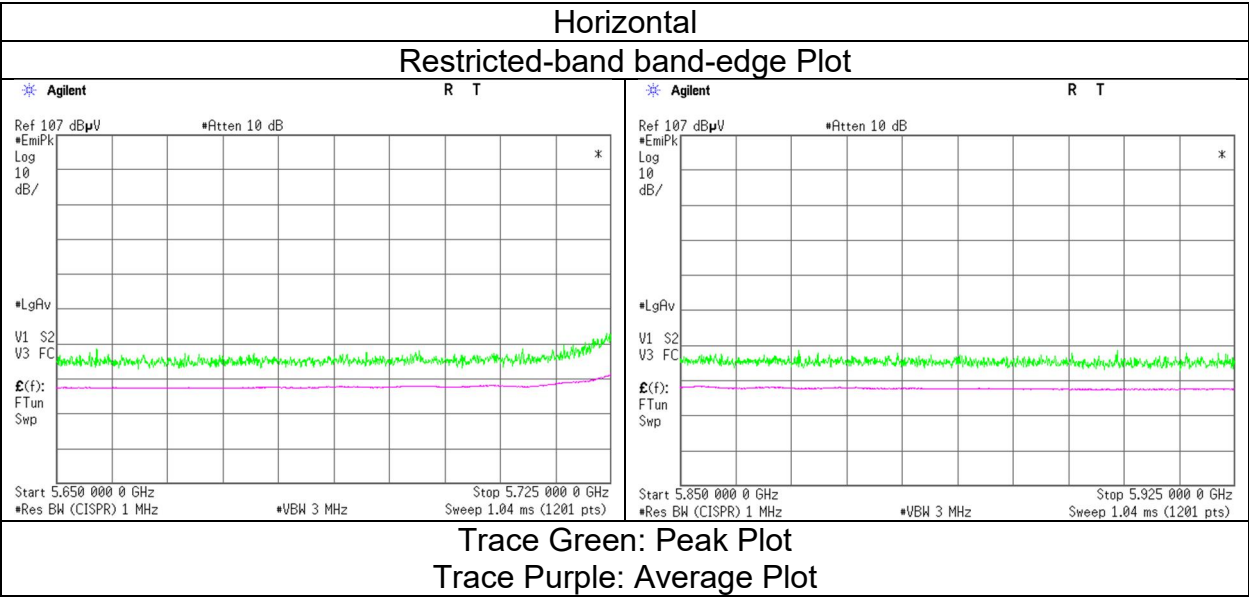
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 6, 2024
23 deg. C / 30 % RH
Makoto Hosaka
Tx 11ac-80 5775 MHz
5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 SAC3
Date March 8, 2024 March 12, 2024 December 21, 2023
Temperature / Humidity 23 deg. C / 35 % RH 20 deg. C / 31 % RH 21 deg. C / 26 % RH
Engineer Yohsuke Matsuzawa Takayuki Kobayashi Yosuke Murakami
(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: monopole

(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	49.37	31.86	-24.90	-	2.10	58.43	73.9	15.4	151	51	-
Hori.	15630.000	PK	47.15	39.52	11.62	40.54	-9.54	48.21	73.9	25.6	150	0	-
Hori.	5150.000	AV	34.57	31.86	-24.90	-	2.10	43.63	53.9	10.2	151	51	VBW: 200 Hz
Hori.	15630.000	AV	34.87	39.52	11.62	40.54	-9.54	35.93	53.9	17.9	150	0	VBW: 200 Hz, Floor noise
Vert.	5150.000	PK	49.32	31.86	-24.90	-	2.10	58.38	73.9	15.5	151	6	-
Vert.	15630.000	PK	47.42	39.52	11.62	40.54	-9.54	48.48	73.9	25.4	150	0	-
Vert.	5150.000	AV	34.66	31.86	-24.90	-	2.10	43.72	53.9	10.1	151	6	VBW: 200 Hz
Vert.	15630.000	AV	34.98	39.52	11.62	40.54	-9.54	36.04	53.9	17.8	150	0	VBW: 200 Hz, Floor noise

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6946.596	PK	53.89	35.37	-33.34	-	2.10	58.02	-37.21	-27.0	10.2	113	67	-
Hori.	10420.000	PK	52.04	36.39	9.38	42.84	-9.54	45.43	-49.80	-27.0	22.8	200	203	-
Vert.	6946.600	PK	54.14	35.37	-33.34	-	2.10	58.27	-36.96	-27.0	9.9	102	98	-
Vert.	10420.000	PK	51.75	36.39	9.38	42.84	-9.54	45.14	-50.09	-27.0	23.0	202	247	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

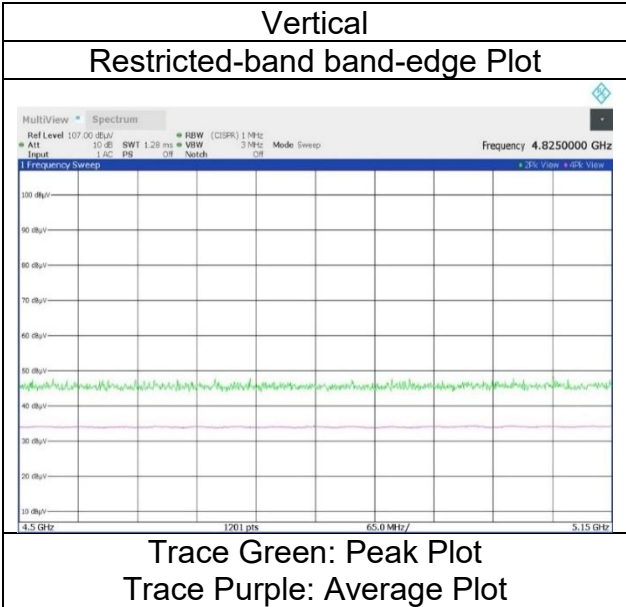
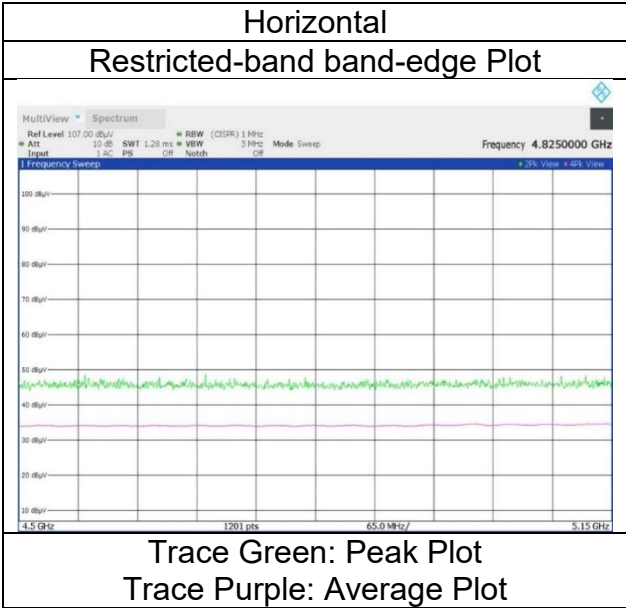
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
March 8, 2024
23 deg. C / 35 % RH
Yohsuke Matsuzawa
Tx 11ax-80(OFDM) 5210 MHz
5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	SAC3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(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: monopole		

(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	49.99	31.58	-24.65	-	2.10	59.02	73.9	14.8	154	52	-
Hori.	5358.754	PK	48.73	31.60	-24.64	-	2.10	57.79	73.9	16.1	154	52	-
Hori.	5368.702	PK	48.96	31.62	-24.63	-	2.10	58.05	73.9	15.8	154	52	-
Hori.	15870.000	PK	46.00	39.93	11.56	40.59	-9.54	47.36	73.9	26.5	150	0	-
Hori.	5350.000	AV	35.34	31.58	-24.65	-	2.10	44.37	53.9	9.5	154	52	VBW: 200 Hz
Hori.	5358.754	AV	34.02	31.60	-24.64	-	2.10	43.08	53.9	10.8	154	52	VBW: 200 Hz
Hori.	5368.702	AV	34.12	31.62	-24.63	-	2.10	43.21	53.9	10.6	154	52	VBW: 200 Hz
Hori.	15870.000	AV	33.94	39.93	11.56	40.59	-9.54	35.30	53.9	18.6	150	0	VBW: 200 Hz, Floor noise
Vert.	5350.000	PK	51.26	31.58	-24.65	-	2.10	60.29	73.9	13.6	184	358	-
Vert.	5358.754	PK	50.33	31.60	-24.64	-	2.10	59.39	73.9	14.5	184	358	-
Vert.	5368.693	PK	49.63	31.62	-24.63	-	2.10	58.72	73.9	15.1	184	358	-
Vert.	15870.000	PK	45.74	39.93	11.56	40.59	-9.54	47.10	73.9	26.8	150	0	-
Vert.	5350.000	AV	36.21	31.58	-24.65	-	2.10	45.24	53.9	8.6	184	358	VBW: 200 Hz
Vert.	5358.754	AV	34.12	31.60	-24.64	-	2.10	43.18	53.9	10.7	184	358	VBW: 200 Hz
Vert.	5368.693	AV	34.52	31.62	-24.63	-	2.10	43.61	53.9	10.2	184	358	VBW: 200 Hz
Vert.	15870.000	AV	33.88	39.93	11.56	40.59	-9.54	35.24	53.9	18.6	150	0	VBW: 200 Hz, Floor noise

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7053.272	PK	54.68	35.94	-33.26	-	2.10	59.46	-35.77	-27.0	8.7	147	67	-
Hori.	10580.000	PK	49.71	36.89	9.44	42.85	-9.54	43.65	-51.58	-27.0	24.5	199	198	-
Vert.	7053.277	PK	54.59	35.94	-33.26	-	2.10	59.37	-35.86	-27.0	8.8	154	99	-
Vert.	10580.000	PK	49.87	36.89	9.44	42.85	-9.54	43.81	-51.42	-27.0	24.4	200	251	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

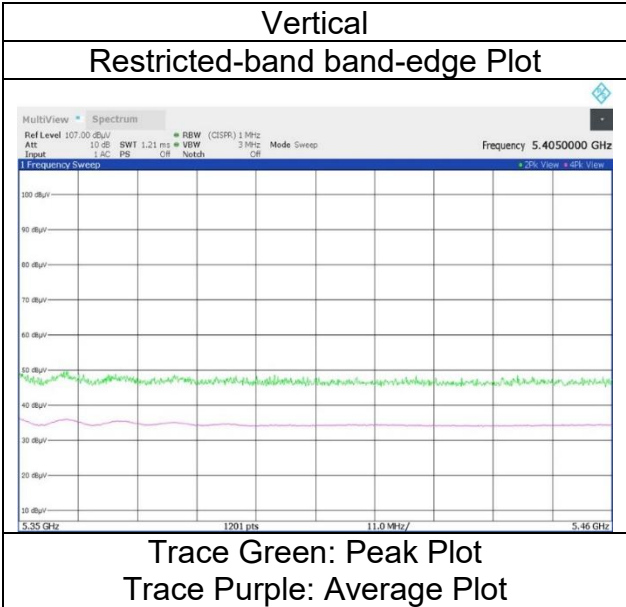
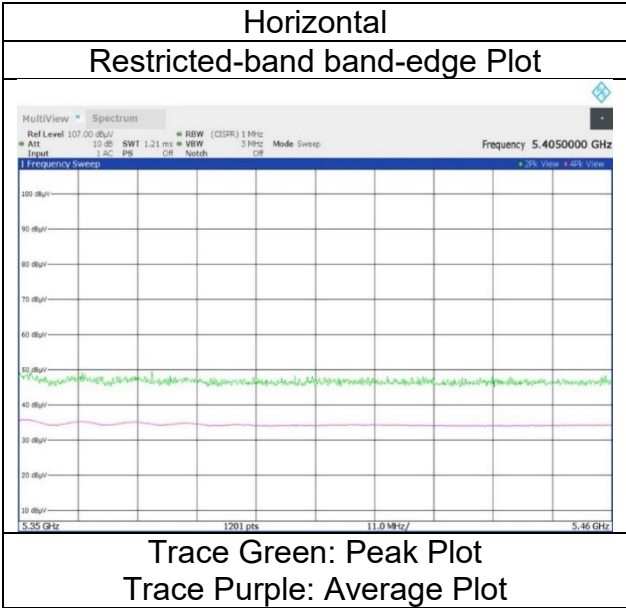
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80(OFDM) 5290 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	SAC3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(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: monopole		

(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	49.17	31.78	-24.51	-	2.10	58.54	73.9	15.3	148	38	-
Hori.	11060.000	PK	48.79	37.60	9.61	42.86	-9.54	43.60	73.9	30.3	194	215	-
Hori.	5460.000	AV	34.41	31.78	-24.51	-	2.10	43.78	53.9	10.1	148	38	VBW: 200 Hz
Hori.	11060.000	AV	36.21	37.60	9.61	42.86	-9.54	31.02	53.9	22.8	194	215	VBW: 200 Hz
Vert.	5460.000	PK	48.68	31.78	-24.51	-	2.10	58.05	73.9	15.8	161	4	-
Vert.	7373.331	PK	48.11	36.36	-32.80	-	2.10	53.77	73.9	20.1	105	185	-
Vert.	7374.985	PK	48.13	36.36	-32.80	-	2.10	53.79	73.9	20.1	112	173	-
Vert.	11060.000	PK	48.04	37.60	9.61	42.86	-9.54	42.85	73.9	31.0	201	246	-
Vert.	5460.000	AV	34.68	31.78	-24.51	-	2.10	44.05	53.9	9.8	161	4	VBW: 200 Hz
Vert.	11060.000	AV	35.71	37.60	9.61	42.86	-9.54	30.52	53.9	23.3	201	246	VBW: 200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.96	31.79	-24.50	-	2.10	58.35	-36.88	-27.0	9.8	148	38	-
Hori.	6635.940	PK	50.30	34.31	-33.36	-	2.10	53.35	-41.88	-27.0	14.8	168	66	-
Hori.	16590.000	PK	46.53	39.92	12.33	40.62	-9.54	48.62	-46.61	-27.0	19.6	150	0	-
Vert.	5470.000	PK	48.57	31.79	-24.50	-	2.10	57.96	-37.27	-27.0	10.2	161	4	-
Vert.	6635.940	PK	50.36	34.31	-33.36	-	2.10	53.41	-41.82	-27.0	14.8	105	185	-
Vert.	16590.000	PK	46.70	39.92	12.33	40.62	-9.54	48.79	-46.44	-27.0	19.4	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

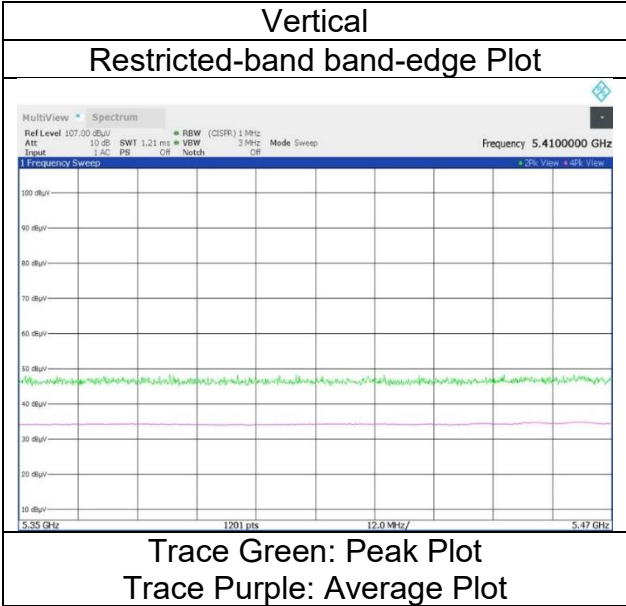
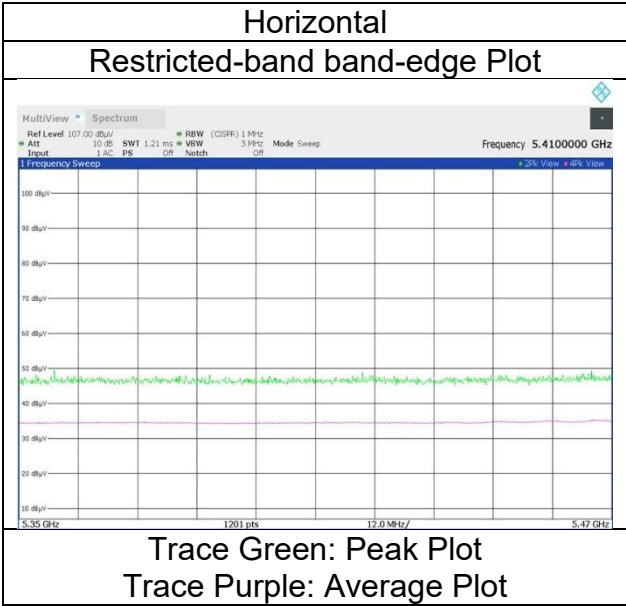
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80(OFDM) 5530 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	SAC3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(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: monopole		

(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.	7480.331	PK	48.36	36.45	-32.65	-	2.10	54.26	73.9	19.6	151	175	-
Hori.	11220.000	PK	46.86	37.87	9.70	42.76	-9.54	42.13	73.9	31.7	205	217	-
Hori.	11220.000	AV	34.65	37.87	9.70	42.76	-9.54	29.92	53.9	23.9	205	217	VBW:200 Hz
Vert.	7480.590	PK	48.18	36.45	-32.65	-	2.10	54.08	73.9	19.8	112	187	-
Vert.	11220.000	PK	47.21	37.87	9.70	42.76	-9.54	42.48	73.9	31.4	177	212	-
Vert.	11220.000	AV	34.85	37.87	9.70	42.76	-9.54	30.12	53.9	23.7	177	212	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.95	32.01	-24.39	-	2.10	58.67	-36.56	-27.0	9.5	153	40	-
Hori.	16830.000	PK	46.86	39.51	12.42	40.54	-9.54	48.71	-46.52	-27.0	19.5	150	0	-
Vert.	5725.000	PK	48.61	32.01	-24.39	-	2.10	58.33	-36.90	-27.0	9.9	343	201	-
Vert.	16830.000	PK	46.89	39.51	12.42	40.54	-9.54	48.74	-46.49	-27.0	19.4	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

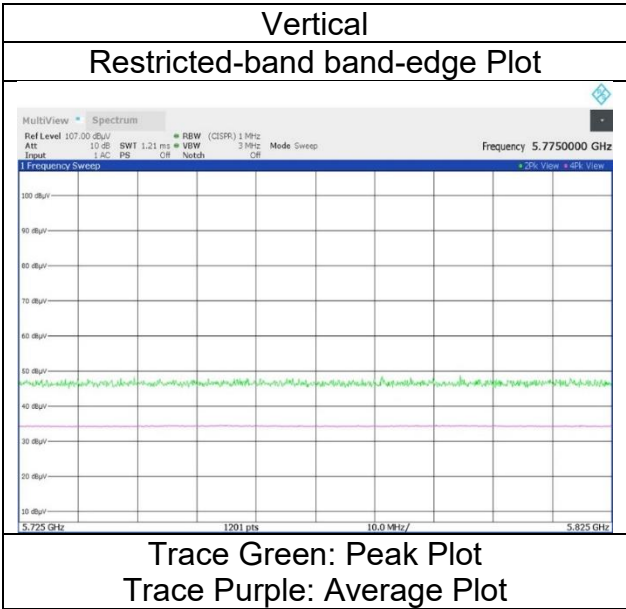
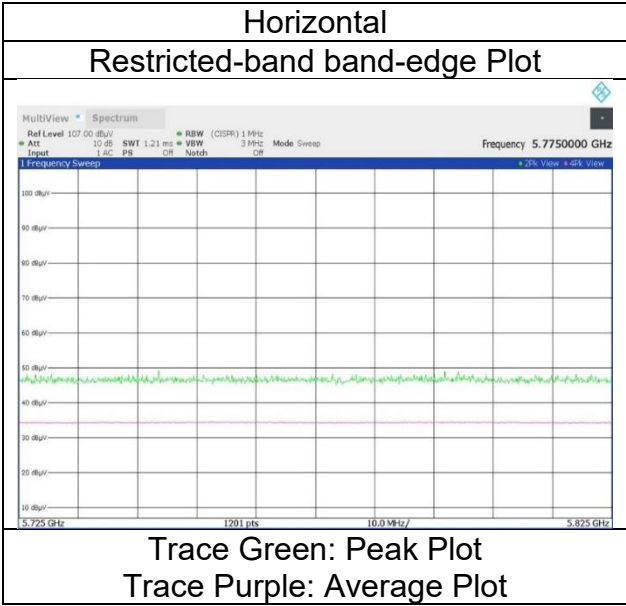
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80(OFDM) 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	SAC3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-80(OFDM) 5690 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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	47.02	38.23	9.79	42.66	-9.54	42.84	73.9	31.0	204	214	-
Hori.	11380.000	AV	35.12	38.23	9.79	42.66	-9.54	30.94	53.9	22.9	204	214	VBW:200 Hz
Vert.	11380.000	PK	46.89	38.23	9.79	42.66	-9.54	42.71	73.9	31.1	182	247	-
Vert.	11380.000	AV	35.03	38.23	9.79	42.66	-9.54	30.85	53.9	23.0	182	247	VBW:200 Hz

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17070.000	PK	46.46	39.78	12.51	40.44	-9.54	48.77	-46.46	-27.0	19.4	150	0	-
Vert.	17070.000	PK	46.67	39.78	12.51	40.44	-9.54	48.98	-46.25	-27.0	19.2	150	0	-

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	SAC3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa	Takayuki Kobayashi	Yosuke Murakami
	(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: monopole		

(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.	7702.965	PK	48.40	36.20	-32.48	-	2.10	54.22	73.9	19.6	150	93	-
Hori.	11550.000	PK	48.31	38.34	9.88	42.56	-9.54	44.43	73.9	29.4	191	215	-
Hori.	11550.000	AV	35.83	38.34	9.88	42.56	-9.54	31.95	53.9	21.9	191	215	VBW:200 Hz
Vert.	7702.990	PK	48.09	36.20	-32.48	-	2.10	53.91	73.9	19.9	102	181	-
Vert.	11550.000	PK	48.37	38.34	9.88	42.56	-9.54	44.49	73.9	29.4	197	249	-
Vert.	11550.000	AV	36.09	38.34	9.88	42.56	-9.54	32.21	53.9	21.6	197	249	VBW:200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.22	31.84	-24.41	-	2.10	58.75	-36.48	-27.0	9.4	149	34	-
Hori.	5700.000	PK	49.02	31.95	-24.39	-	2.10	58.68	-36.55	10.0	46.5	149	34	-
Hori.	5720.000	PK	51.84	31.99	-24.38	-	2.10	61.55	-33.68	15.6	49.2	149	34	-
Hori.	5725.000	PK	56.75	32.01	-24.39	-	2.10	66.47	-28.76	27.0	55.7	149	34	-
Hori.	5850.000	PK	48.47	32.33	-24.33	-	2.10	58.57	-36.66	27.0	63.6	149	34	-
Hori.	5855.000	PK	49.03	32.34	-24.32	-	2.10	59.15	-36.08	15.6	51.6	149	34	-
Hori.	5875.000	PK	48.85	32.38	-24.32	-	2.10	59.01	-36.22	10.0	46.2	149	34	-
Hori.	5925.000	PK	49.13	32.46	-24.31	-	2.10	59.38	-35.85	-27.0	8.8	149	34	-
Hori.	17325.000	PK	46.55	40.18	12.55	40.28	-9.54	49.46	-45.77	-27.0	18.7	150	0	-
Vert.	5650.000	PK	48.86	31.84	-24.41	-	2.10	58.39	-36.84	-27.0	9.8	189	2	-
Vert.	5700.000	PK	49.00	31.95	-24.39	-	2.10	58.66	-36.57	10.0	46.5	189	2	-
Vert.	5720.000	PK	52.61	31.99	-24.38	-	2.10	62.32	-32.91	15.6	48.5	189	2	-
Vert.	5725.000	PK	56.83	32.01	-24.39	-	2.10	66.55	-28.68	27.0	55.6	189	2	-
Vert.	5850.000	PK	49.56	32.33	-24.33	-	2.10	59.66	-35.57	27.0	62.5	189	2	-
Vert.	5855.000	PK	48.53	32.34	-24.32	-	2.10	58.65	-36.58	15.6	52.1	189	2	-
Vert.	5875.000	PK	48.59	32.38	-24.32	-	2.10	58.75	-36.48	10.0	46.4	189	2	-
Vert.	5925.000	PK	49.23	32.46	-24.31	-	2.10	59.48	-35.75	-27.0	8.7	189	2	-
Vert.	17325.000	PK	46.58	40.18	12.55	40.28	-9.54	49.49	-45.74	-27.0	18.7	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

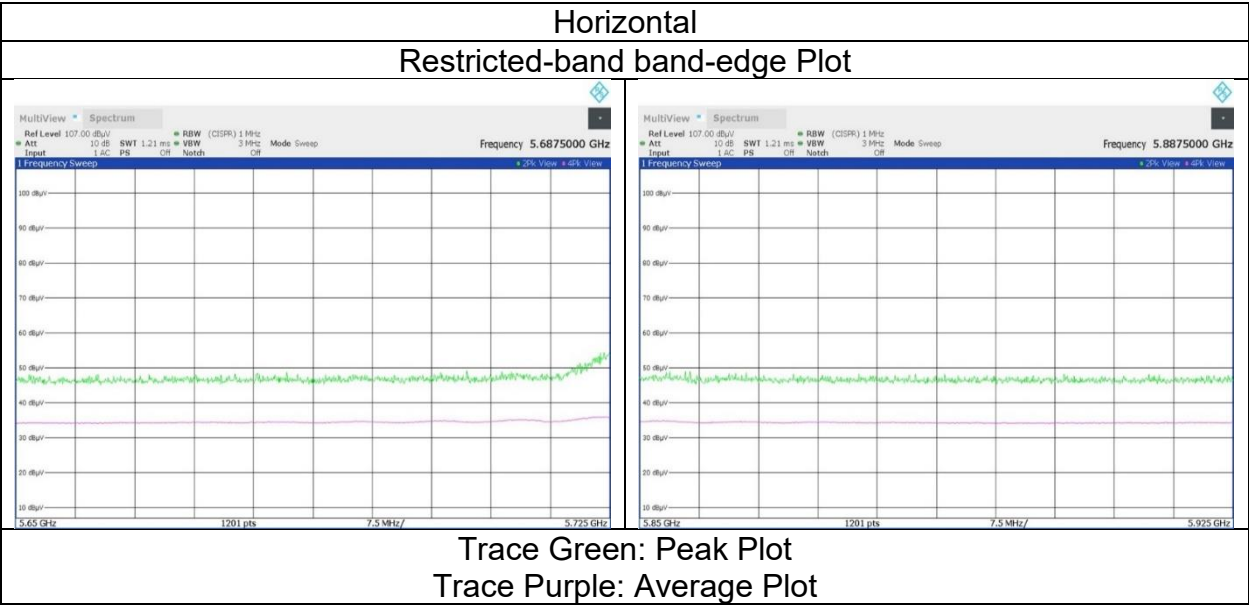
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80(OFDM) 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.50	31.86	-25.53	-	2.10	55.93	73.9	17.9	232	340	-
Hori.	5150.000	AV	34.92	31.86	-25.53	-	2.10	43.35	53.9	10.5	232	340	VBW:1 kHz
Vert.	5150.000	PK	47.96	31.86	-25.53	-	2.10	56.39	73.9	17.5	100	0	-
Vert.	5150.000	AV	35.03	31.86	-25.53	-	2.10	43.46	53.9	10.4	100	0	VBW:1 kHz

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

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

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

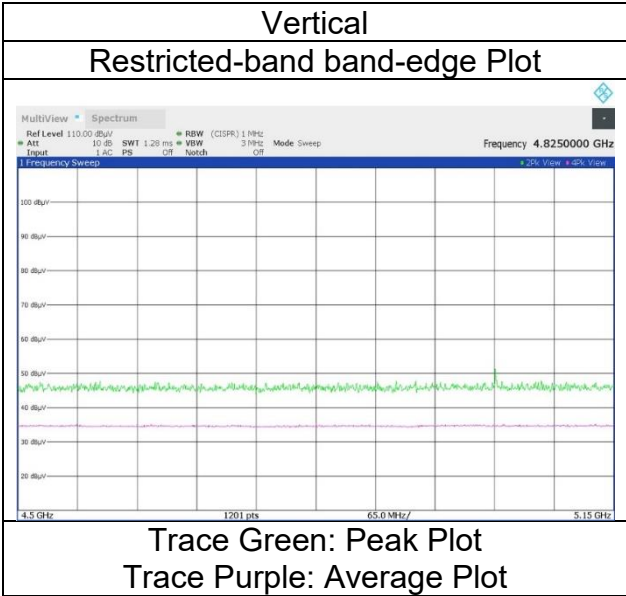
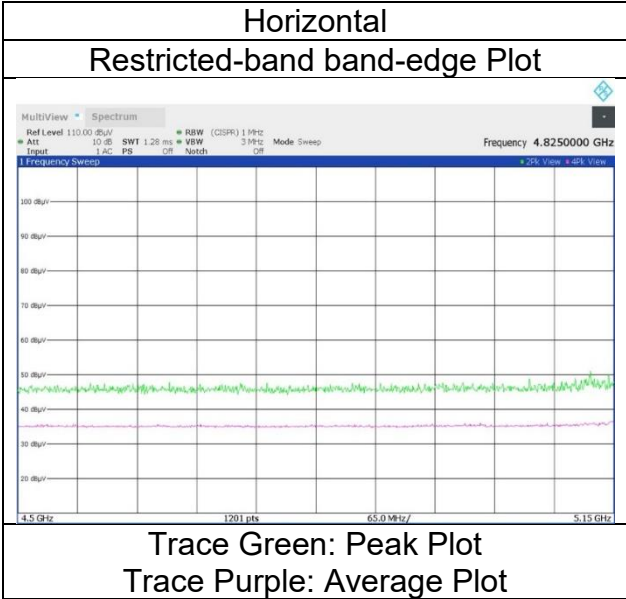
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5210 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.74	31.58	-25.29	-	2.10	56.13	73.9	17.7	144	331	-
Hori.	5350.000	AV	35.02	31.58	-25.29	-	2.10	43.41	53.9	10.4	144	331	VBW:1 kHz
Vert.	5350.000	PK	48.69	31.58	-25.29	-	2.10	57.08	73.9	16.8	100	0	-
Vert.	5350.000	AV	35.38	31.58	-25.29	-	2.10	43.77	53.9	10.1	100	0	VBW:1 kHz

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

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

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

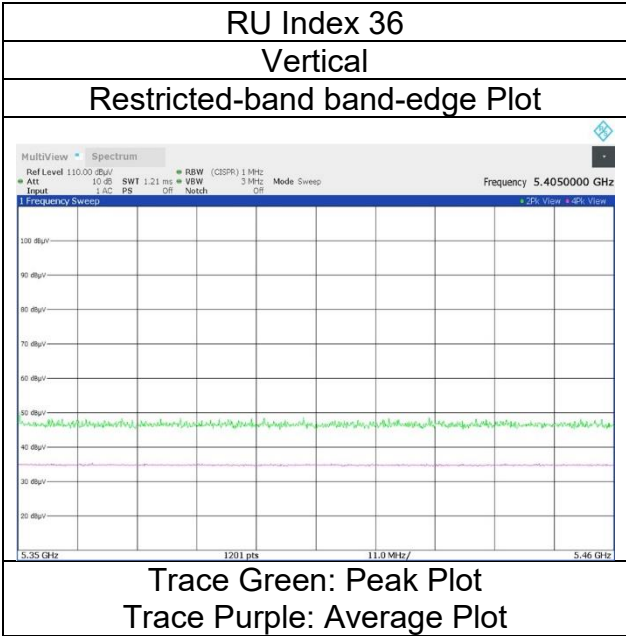
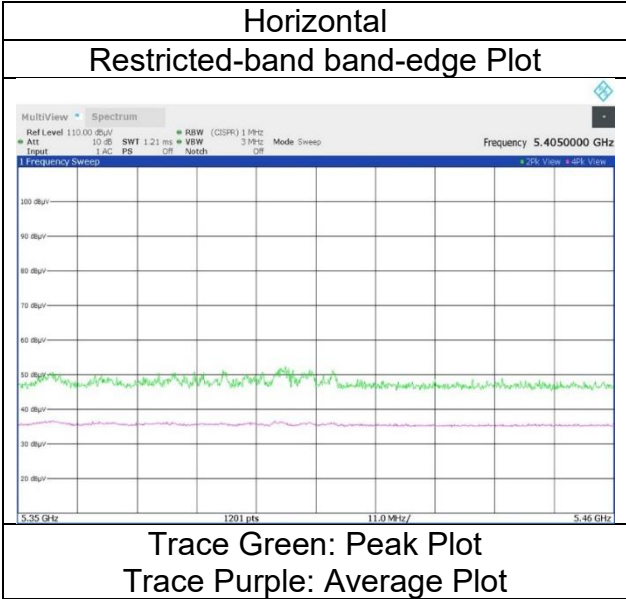
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5290 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 36



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.30	31.78	-25.16	-	2.10	56.02	73.9	17.8	129	328	-
Hori.	5460.000	AV	34.56	31.78	-25.16	-	2.10	43.28	53.9	10.6	129	328	VBW:1 kHz
Vert.	5460.000	PK	46.33	31.78	-25.16	-	2.10	55.05	73.9	18.8	188	339	-
Vert.	5460.000	AV	34.79	31.78	-25.16	-	2.10	43.51	53.9	10.3	188	339	VBW:1 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.73	31.79	-25.15	-	2.10	56.47	-38.76	-27.0	11.7	129	328	-
Vert.	5470.000	PK	48.05	31.79	-25.15	-	2.10	56.79	-38.44	-27.0	11.4	188	339	-

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

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

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

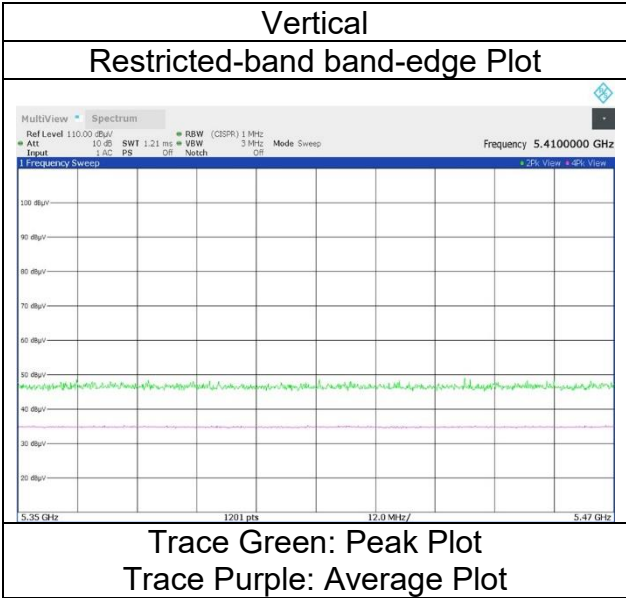
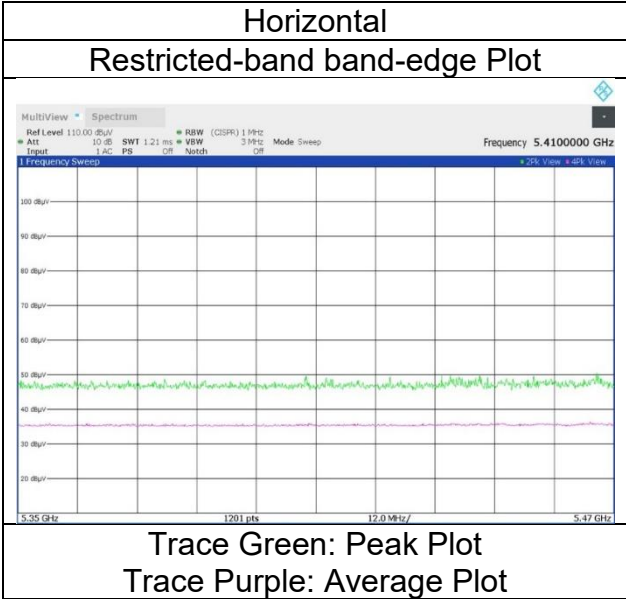
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5530 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	46.34	32.01	-25.06	-	2.10	55.39	-39.84	-27.0	12.8	269	334	-
Vert.	5725.000	PK	47.27	32.01	-25.06	-	2.10	56.32	-38.91	-27.0	11.9	160	353	-

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

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

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

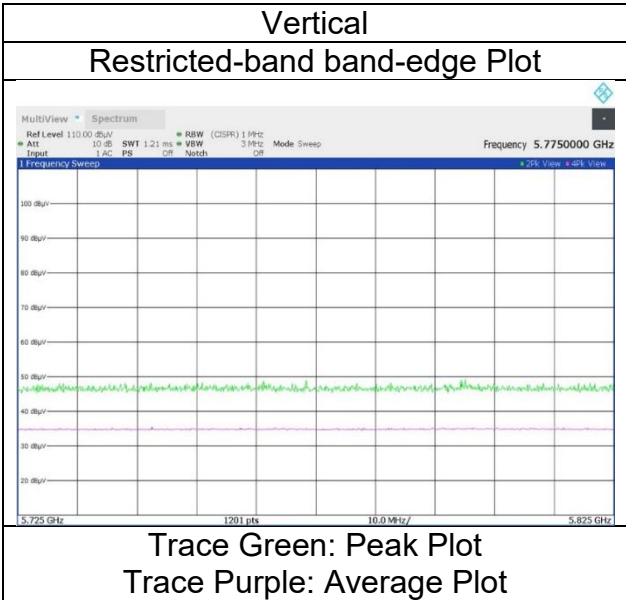
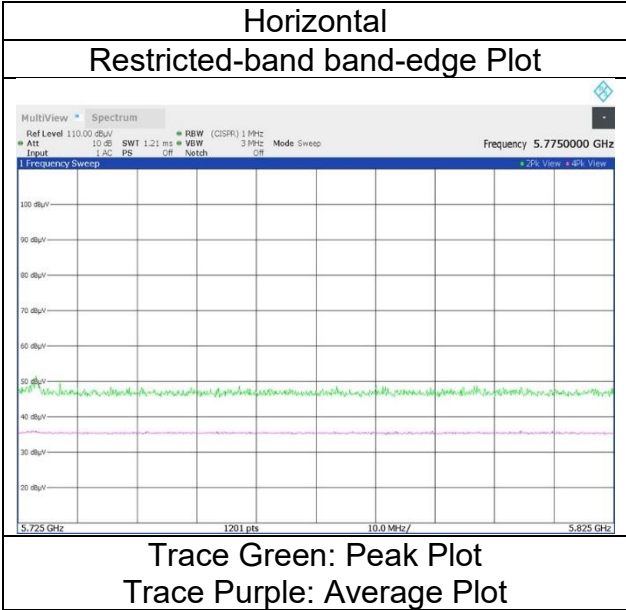
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 36



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.89	31.84	-25.07	-	2.10	55.76	-39.47	-27.0	12.4	156	340	-
Hori.	5700.000	PK	48.59	31.95	-25.06	-	2.10	57.58	-37.65	10.0	47.6	156	340	-
Hori.	5715.000	PK	47.64	31.98	-25.06	-	2.10	56.66	-38.57	14.2	52.7	156	340	-
Hori.	5720.000	PK	52.80	31.99	-25.05	-	2.10	61.84	-33.39	15.6	48.9	156	340	-
Hori.	5725.000	PK	59.95	32.01	-25.06	-	2.10	69.00	-26.23	27.0	53.2	156	340	-
Vert.	5650.000	PK	47.49	31.84	-25.07	-	2.10	56.36	-38.87	-27.0	11.8	157	346	-
Vert.	5700.000	PK	46.51	31.95	-25.06	-	2.10	55.50	-39.73	10.0	49.7	157	346	-
Vert.	5715.000	PK	48.34	31.98	-25.06	-	2.10	57.36	-37.87	14.2	52.0	157	346	-
Vert.	5720.000	PK	56.09	31.99	-25.05	-	2.10	65.13	-30.10	15.6	45.7	157	346	-
Vert.	5725.000	PK	63.13	32.01	-25.06	-	2.10	72.18	-23.05	27.0	50.0	157	346	-

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

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

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).

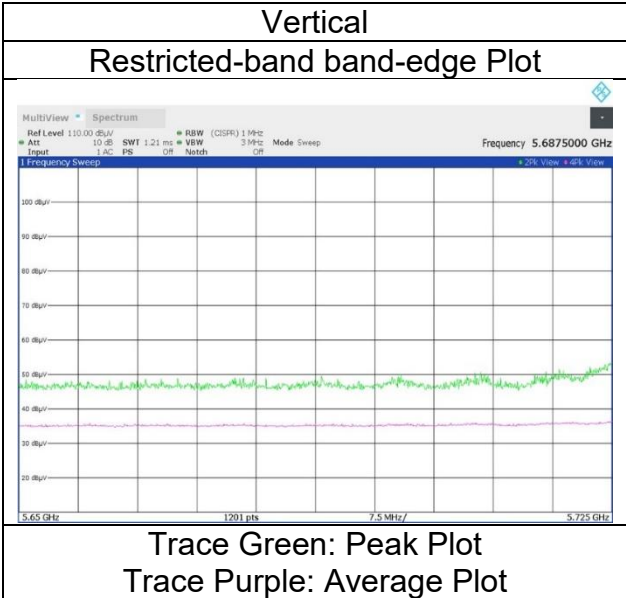
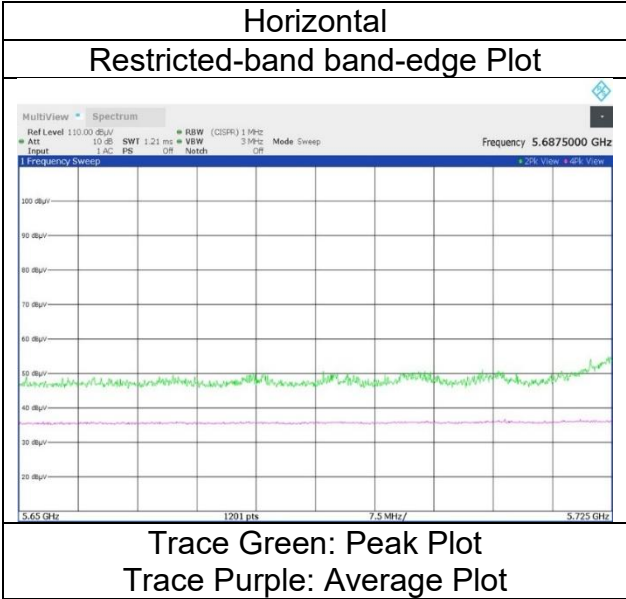
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

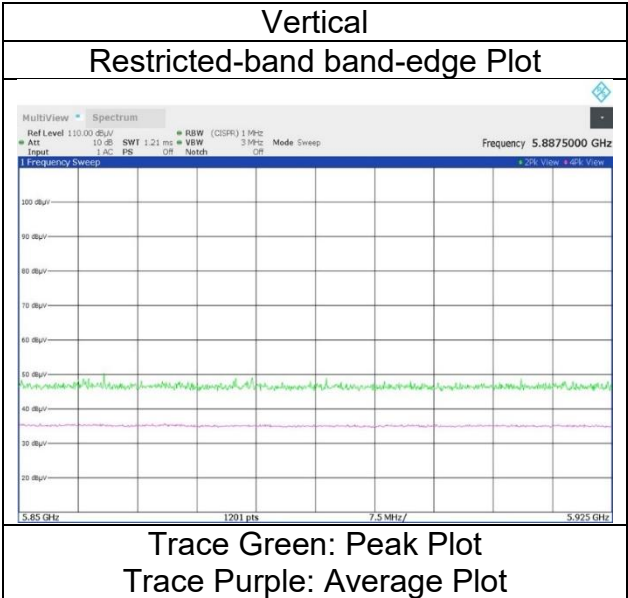
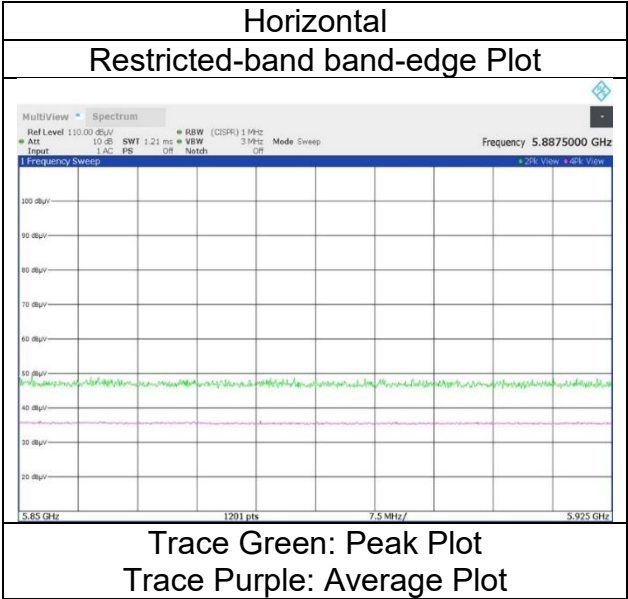
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.13	32.33	-25.01	-	2.10	56.55	-38.68	27.0	65.6	169	337	-
Hori.	5855.000	PK	46.76	32.34	-25.00	-	2.10	56.20	-39.03	15.6	54.6	169	337	-
Hori.	5860.000	PK	46.58	32.35	-25.01	-	2.10	56.02	-39.21	14.2	53.4	169	337	-
Hori.	5875.000	PK	46.78	32.38	-25.00	-	2.10	56.26	-38.97	10.0	48.9	169	337	-
Hori.	5889.373	PK	53.69	32.41	-25.00	-	2.10	63.20	-32.03	-0.6	31.4	169	337	-
Hori.	5925.000	PK	46.72	32.46	-24.99	-	2.10	56.29	-38.94	-27.0	11.9	169	337	-
Vert.	5850.000	PK	47.57	32.33	-25.01	-	2.10	56.99	-38.24	27.0	65.2	222	354	-
Vert.	5855.000	PK	46.67	32.34	-25.00	-	2.10	56.11	-39.12	15.6	54.7	222	354	-
Vert.	5860.000	PK	46.88	32.35	-25.01	-	2.10	56.32	-38.91	14.2	53.1	222	354	-
Vert.	5875.000	PK	48.18	32.38	-25.00	-	2.10	57.66	-37.57	10.0	47.5	222	354	-
Vert.	5925.000	PK	46.03	32.46	-24.99	-	2.10	55.60	-39.63	-27.0	12.6	222	354	-

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
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	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 26-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.65	31.86	-25.53	-	2.10	56.08	73.9	17.8	160	331	-
Hori.	5150.000	AV	35.50	31.86	-25.53	-	2.10	43.93	53.9	9.9	160	331	VBW:2 kHz
Vert.	5150.000	PK	47.80	31.86	-25.53	-	2.10	56.23	73.9	17.6	279	334	-
Vert.	5150.000	AV	35.31	31.86	-25.53	-	2.10	43.74	53.9	10.1	279	334	VBW:2 kHz

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

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

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

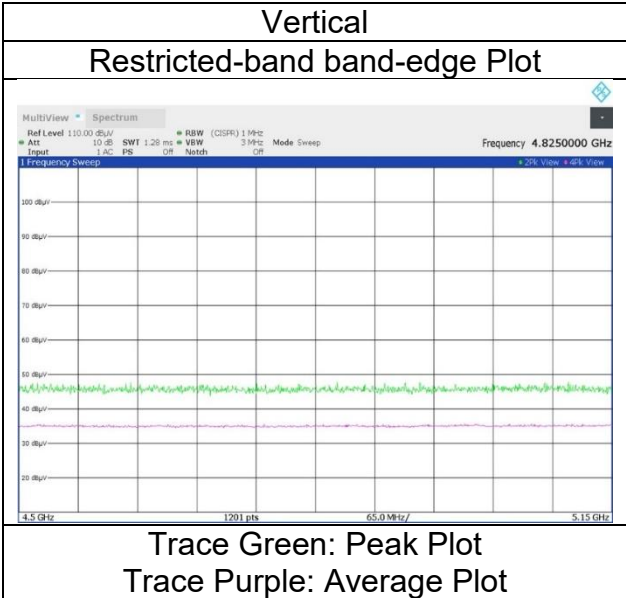
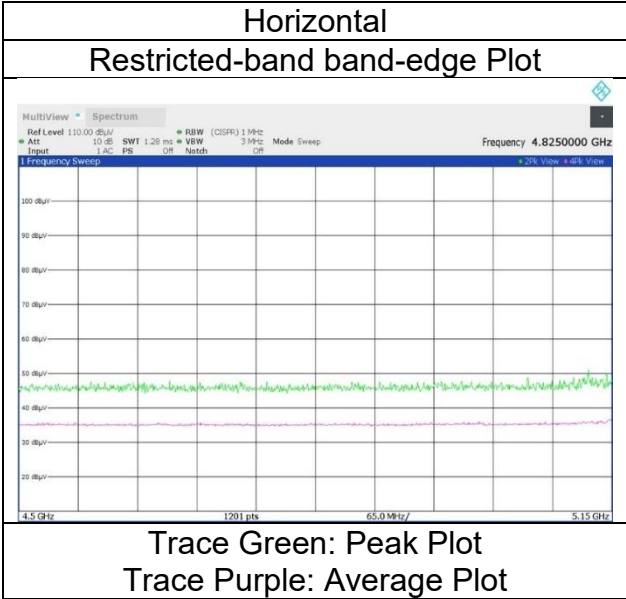
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5210 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 52
(above 1 GHz Inside of the restricted band)

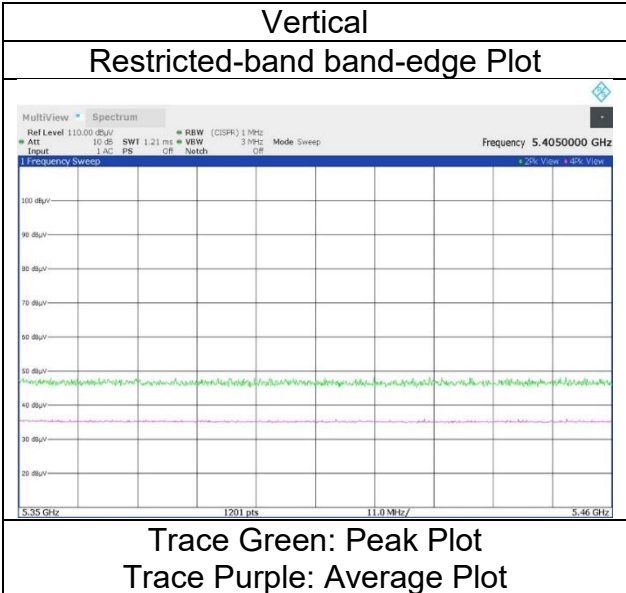
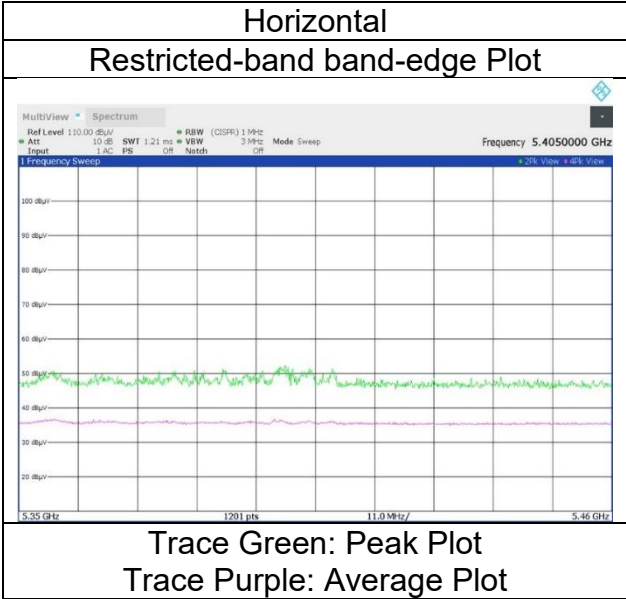
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.71	31.58	-25.29	-	2.10	58.10	73.9	15.8	222	336	-
Hori.	5350.000	AV	35.66	31.58	-25.29	-	2.10	44.05	53.9	9.8	222	336	VBW:2 kHz
Vert.	5350.000	PK	47.61	31.58	-25.29	-	2.10	56.00	73.9	17.9	321	355	-
Vert.	5350.000	AV	35.73	31.58	-25.29	-	2.10	44.12	53.9	9.7	321	355	VBW:2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5290 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.70	31.78	-25.16	-	2.10	56.42	73.9	17.4	212	326	-
Hori.	5460.000	AV	34.90	31.78	-25.16	-	2.10	43.62	53.9	10.2	212	326	VBW:2 kHz
Vert.	5460.000	PK	47.42	31.78	-25.16	-	2.10	56.14	73.9	17.7	193	342	-
Vert.	5460.000	AV	35.05	31.78	-25.16	-	2.10	43.77	53.9	10.1	193	342	VBW:2 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.49	31.79	-25.15	-	2.10	56.23	-39.00	-27.0	12.0	212	326	-
Vert.	5470.000	PK	46.85	31.79	-25.15	-	2.10	55.59	-39.64	-27.0	12.6	193	342	-

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

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

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

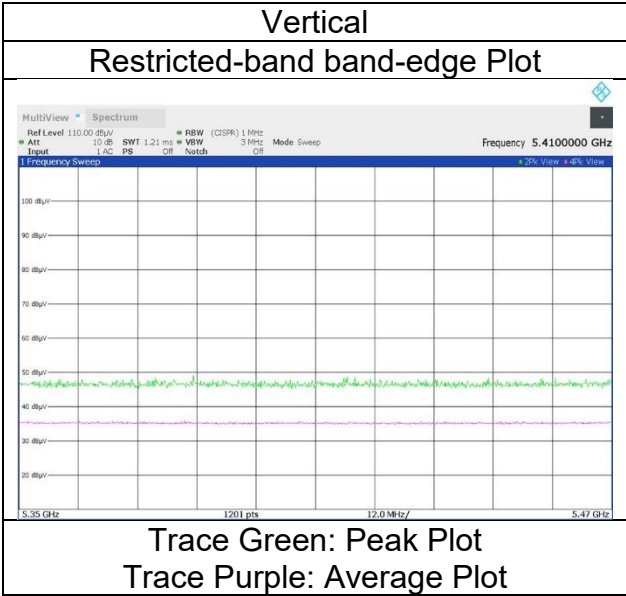
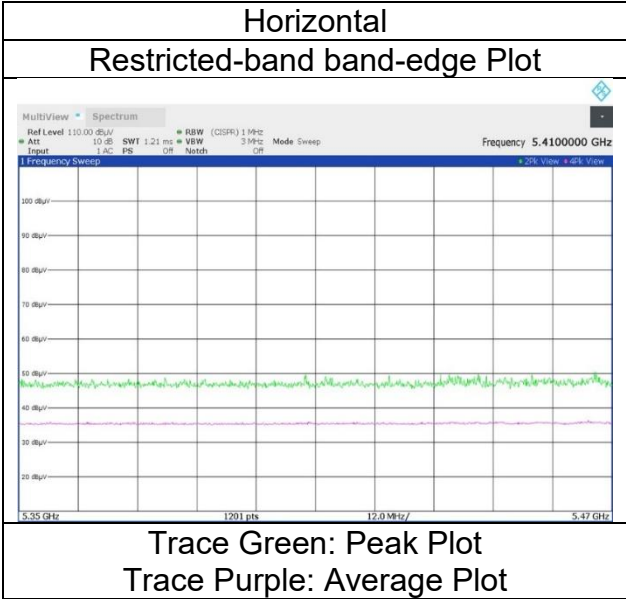
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5530 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 37



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	46.72	32.01	-25.06	-	2.10	55.77	-39.46	-27.0	12.4	336	336	-
Vert.	5725.000	PK	46.41	32.01	-25.06	-	2.10	55.46	-39.77	-27.0	12.7	245	355	-

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

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

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

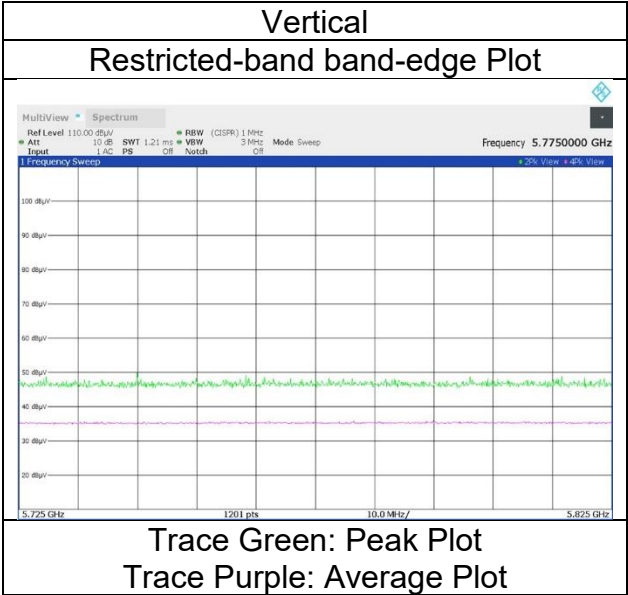
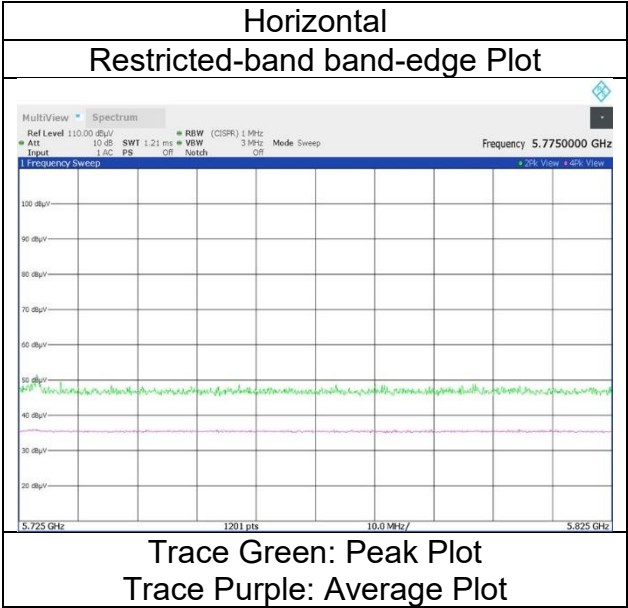
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	48.30	31.84	-25.07	-	2.10	57.17	-38.06	-27.0	11.0	214	329	-
Hori.	5700.000	PK	46.82	31.95	-25.06	-	2.10	55.81	-39.42	10.0	49.4	214	329	-
Hori.	5715.000	PK	48.24	31.98	-25.06	-	2.10	57.26	-37.97	14.2	52.1	214	329	-
Hori.	5720.000	PK	53.33	31.99	-25.05	-	2.10	62.37	-32.86	15.6	48.4	214	329	-
Hori.	5725.000	PK	60.87	32.01	-25.06	-	2.10	69.92	-25.31	27.0	52.3	214	329	-
Vert.	5650.000	PK	47.27	31.84	-25.07	-	2.10	56.14	-39.09	-27.0	12.0	163	341	-
Vert.	5700.000	PK	47.10	31.95	-25.06	-	2.10	56.09	-39.14	10.0	49.1	163	341	-
Vert.	5715.000	PK	48.39	31.98	-25.06	-	2.10	57.41	-37.82	14.2	52.0	163	341	-
Vert.	5720.000	PK	55.43	31.99	-25.05	-	2.10	64.47	-30.76	15.6	46.3	163	341	-
Vert.	5725.000	PK	63.93	32.01	-25.06	-	2.10	72.98	-22.25	27.0	49.2	163	341	-

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

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

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

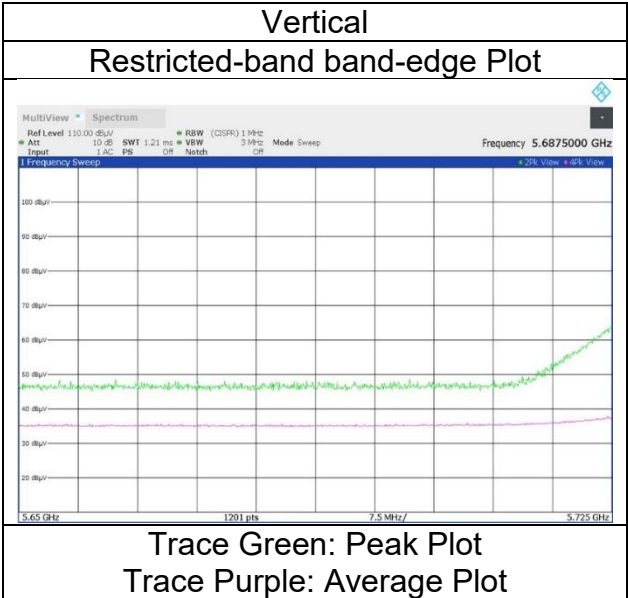
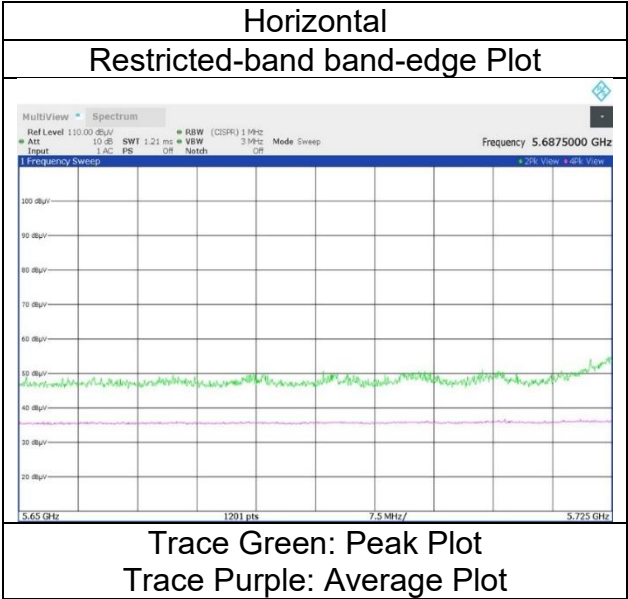
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.70	32.33	-25.01	-	2.10	56.12	-39.11	27.0	66.1	223	337	-
Hori.	5855.000	PK	46.43	32.34	-25.00	-	2.10	55.87	-39.36	15.6	54.9	223	337	-
Hori.	5860.000	PK	47.38	32.35	-25.01	-	2.10	56.82	-38.41	14.2	52.6	223	337	-
Hori.	5875.000	PK	47.51	32.38	-25.00	-	2.10	56.99	-38.24	10.0	48.2	223	337	-
Hori.	5925.000	PK	46.96	32.46	-24.99	-	2.10	56.53	-38.70	-27.0	11.7	223	337	-
Vert.	5850.000	PK	46.84	32.33	-25.01	-	2.10	56.26	-38.97	27.0	65.9	125	329	-
Vert.	5855.000	PK	46.61	32.34	-25.00	-	2.10	56.05	-39.18	15.6	54.7	125	329	-
Vert.	5860.000	PK	46.70	32.35	-25.01	-	2.10	56.14	-39.09	14.2	53.2	125	329	-
Vert.	5875.000	PK	47.76	32.38	-25.00	-	2.10	57.24	-37.99	10.0	47.9	125	329	-
Vert.	5925.000	PK	46.97	32.46	-24.99	-	2.10	56.54	-38.69	-27.0	11.6	125	329	-

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

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

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

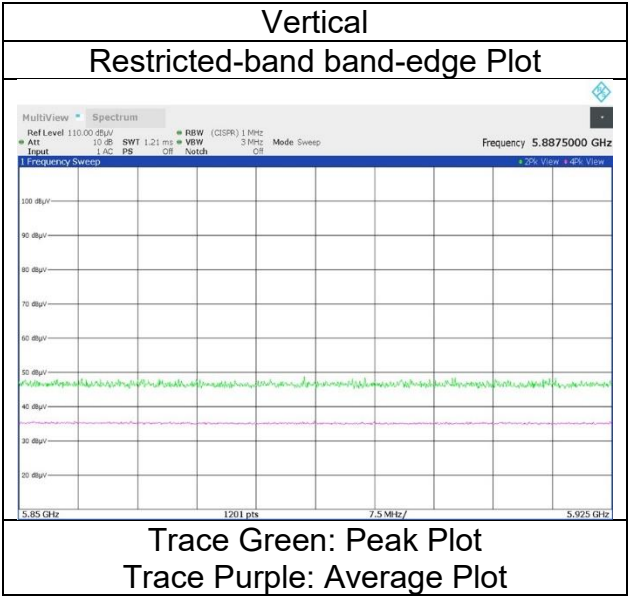
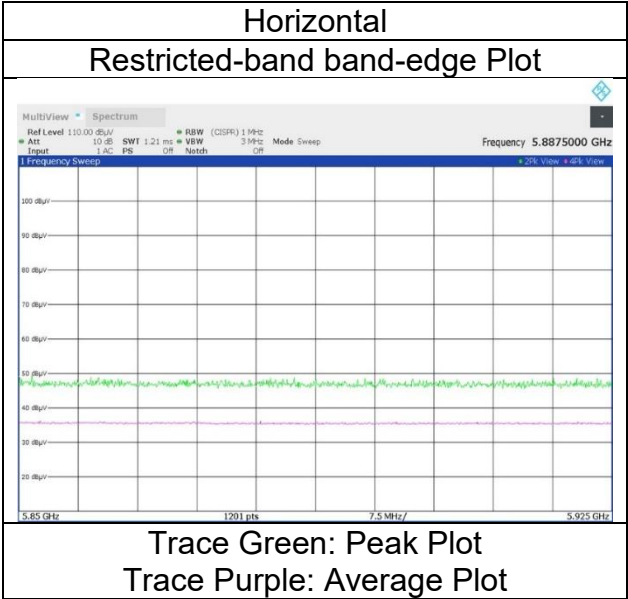
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 52-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.10	31.86	-25.53	-	2.10	55.53	73.9	18.3	226	327	-
Hori.	5150.000	AV	35.51	31.86	-25.53	-	2.10	43.94	53.9	9.9	226	327	VBW:3 kHz
Vert.	5150.000	PK	47.98	31.86	-25.53	-	2.10	56.41	73.9	17.4	192	352	-
Vert.	5150.000	AV	35.60	31.86	-25.53	-	2.10	44.03	53.9	9.8	192	352	VBW:3 kHz

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

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

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

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

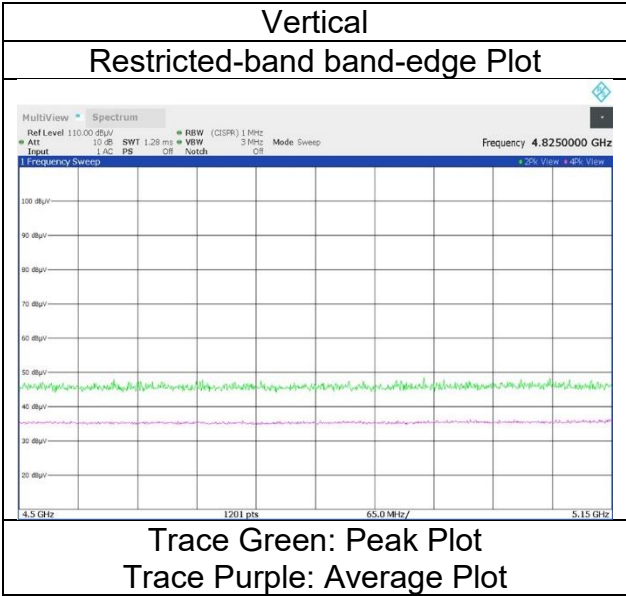
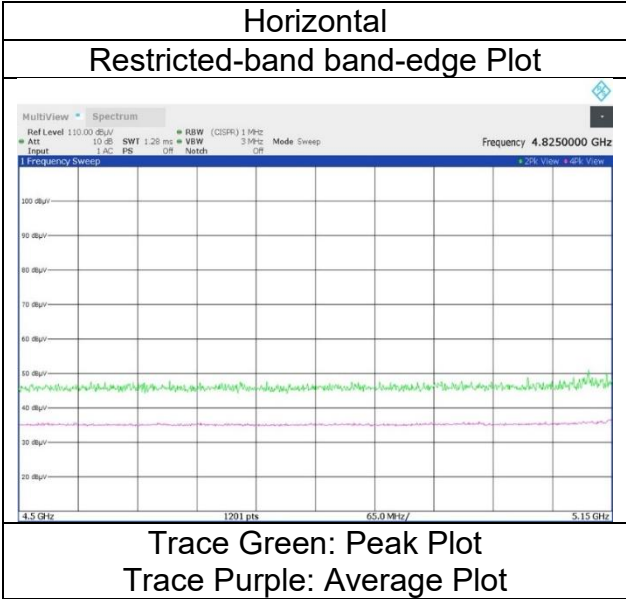
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 18, 2024
21deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-80(OFDMA) 106-tone 5210 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.43	31.58	-25.29	-	2.10	55.82	73.9	18.0	142	333	-
Hori.	5350.000	AV	35.41	31.58	-25.29	-	2.10	43.80	53.9	10.1	142	333	VBW:3 kHz
Vert.	5350.000	PK	47.18	31.58	-25.29	-	2.10	55.57	73.9	18.3	204	330	-
Vert.	5350.000	AV	35.88	31.58	-25.29	-	2.10	44.27	53.9	9.6	204	330	VBW:3 kHz

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

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

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

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

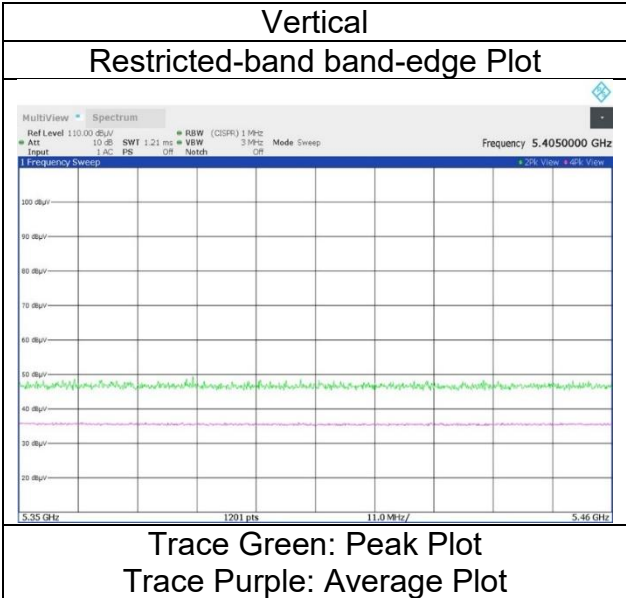
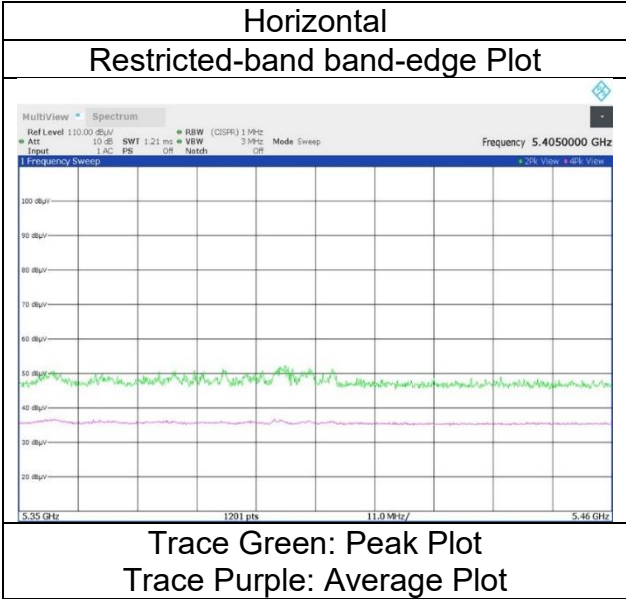
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 18, 2024
21deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-80(OFDMA) 106-tone 5290 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
Mode Tx 11ax-80(OFDMA) 106-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	47.63	31.78	-25.16	-	2.10	56.35	73.9	17.5	152	326	-
Hori.	5460.000	AV	35.29	31.78	-25.16	-	2.10	44.01	53.9	9.8	152	326	VBW:3 kHz
Vert.	5460.000	PK	46.59	31.78	-25.16	-	2.10	55.31	73.9	18.5	223	343	-
Vert.	5460.000	AV	35.44	31.78	-25.16	-	2.10	44.16	53.9	9.7	223	343	VBW:3 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	48.28	31.79	-25.15	-	2.10	57.02	-38.21	-27.0	11.2	152	326	-
Vert.	5470.000	PK	47.32	31.79	-25.15	-	2.10	56.06	-39.17	-27.0	12.1	223	343	-

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

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

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

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

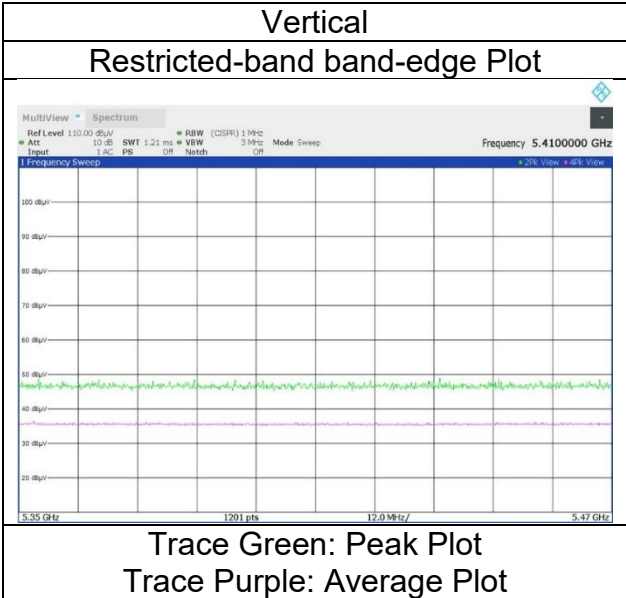
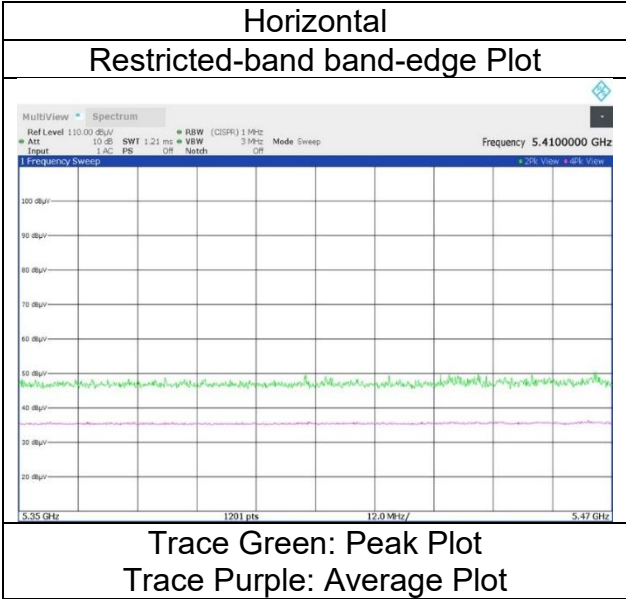
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 18, 2024
21deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-80(OFDMA) 106-tone 5530 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.83	32.01	-25.06	-	2.10	55.88	-39.35	-27.0	12.3	180	327	-
Vert.	5725.000	PK	46.81	32.01	-25.06	-	2.10	55.86	-39.37	-27.0	12.3	217	350	-

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

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

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

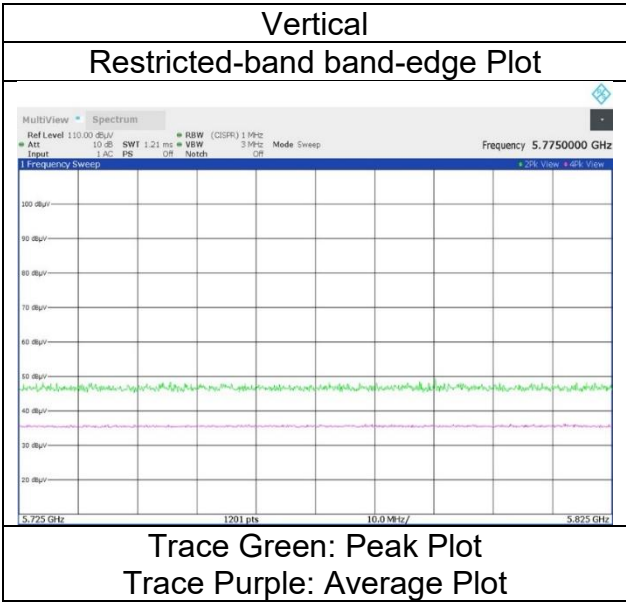
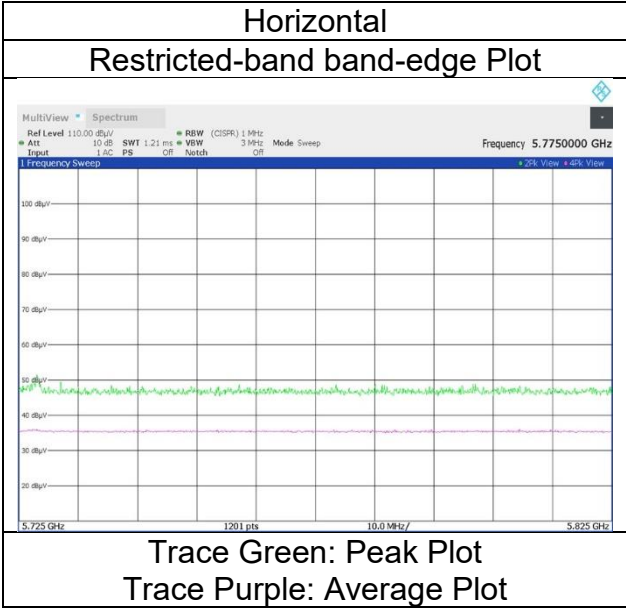
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 106-tone 5610 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.06	31.84	-25.07	-	2.10	56.93	-38.30	-27.0	11.3	144	329	-
Hori.	5700.000	PK	47.80	31.95	-25.06	-	2.10	56.79	-38.44	10.0	48.4	144	329	-
Hori.	5715.000	PK	47.72	31.98	-25.06	-	2.10	56.74	-38.49	14.2	52.6	144	329	-
Hori.	5720.000	PK	51.46	31.99	-25.05	-	2.10	60.50	-34.73	15.6	50.3	144	329	-
Hori.	5725.000	PK	58.82	32.01	-25.06	-	2.10	67.87	-27.36	27.0	54.3	144	329	-
Vert.	5650.000	PK	46.78	31.84	-25.07	-	2.10	55.65	-39.58	-27.0	12.5	134	346	-
Vert.	5700.000	PK	48.40	31.95	-25.06	-	2.10	57.39	-37.84	10.0	47.8	134	346	-
Vert.	5715.000	PK	46.75	31.98	-25.06	-	2.10	55.77	-39.46	14.2	53.6	134	346	-
Vert.	5720.000	PK	53.17	31.99	-25.05	-	2.10	62.21	-33.02	15.6	48.6	134	346	-
Vert.	5725.000	PK	59.03	32.01	-25.06	-	2.10	68.08	-27.15	27.0	54.1	134	346	-

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

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

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

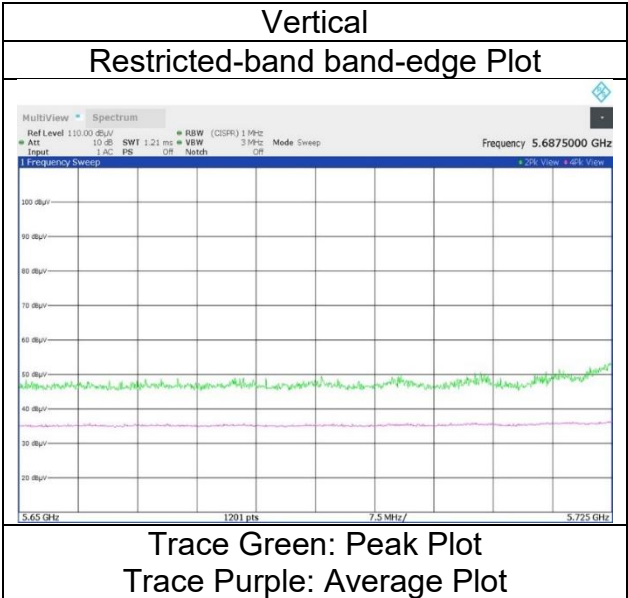
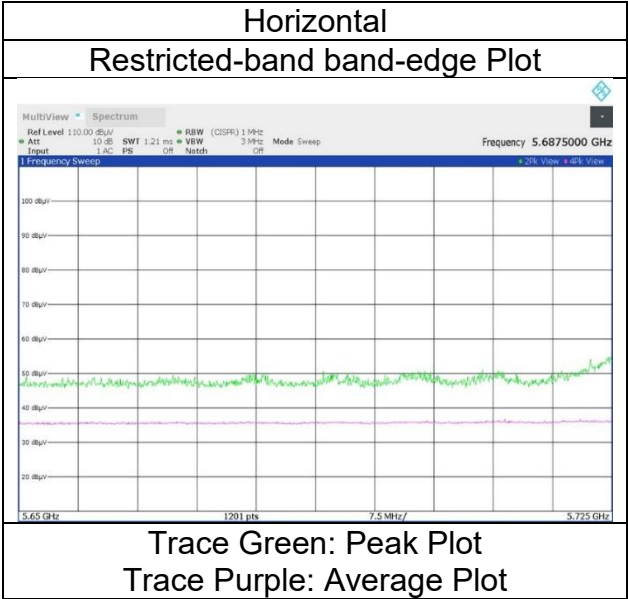
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 18, 2024
Temperature / Humidity 21deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	46.97	32.33	-25.01	-	2.10	56.39	-38.84	27.0	65.8	133	339	-
Hori.	5855.000	PK	47.89	32.34	-25.00	-	2.10	57.33	-37.90	15.6	53.5	133	339	-
Hori.	5860.000	PK	46.73	32.35	-25.01	-	2.10	56.17	-39.06	14.2	53.2	133	339	-
Hori.	5875.000	PK	47.31	32.38	-25.00	-	2.10	56.79	-38.44	10.0	48.4	133	339	-
Hori.	5925.000	PK	47.02	32.46	-24.99	-	2.10	56.59	-38.64	-27.0	11.6	133	339	-
Vert.	5850.000	PK	47.81	32.33	-25.01	-	2.10	57.23	-38.00	27.0	65.0	143	347	-
Vert.	5855.000	PK	46.78	32.34	-25.00	-	2.10	56.22	-39.01	15.6	54.6	143	347	-
Vert.	5860.000	PK	46.56	32.35	-25.01	-	2.10	56.00	-39.23	14.2	53.4	143	347	-
Vert.	5875.000	PK	48.62	32.38	-25.00	-	2.10	58.10	-37.13	10.0	47.1	143	347	-
Vert.	5925.000	PK	47.01	32.46	-24.99	-	2.10	56.58	-38.65	-27.0	11.6	143	347	-

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

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

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

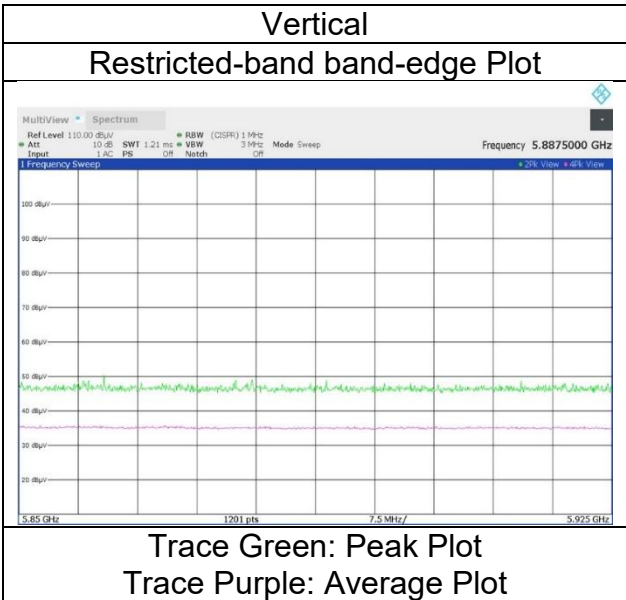
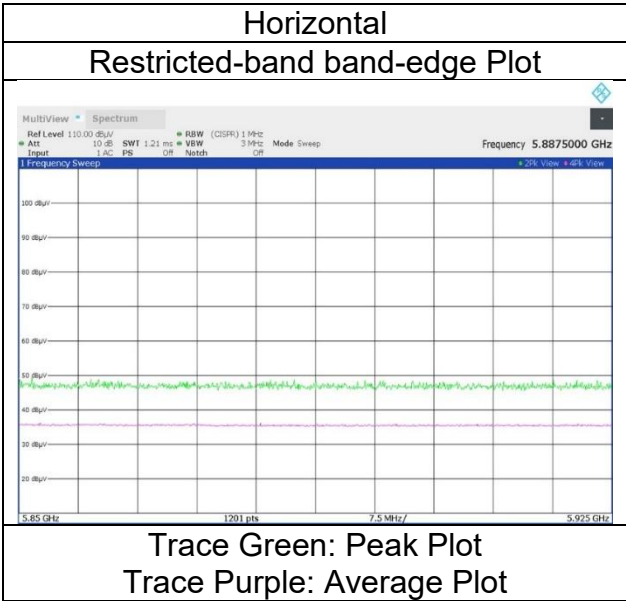
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 18, 2024
Temperature / Humidity	21deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-80(OFDMA) 106-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.02	31.86	-25.53	-	2.10	55.45	73.9	18.4	155	48	-
Hori.	5150.000	AV	34.99	31.86	-25.53	-	2.10	43.42	53.9	10.4	155	48	VBW:500 Hz
Vert.	5150.000	PK	47.44	31.86	-25.53	-	2.10	55.87	73.9	18.0	150	353	-
Vert.	5150.000	AV	34.89	31.86	-25.53	-	2.10	43.32	53.9	10.5	150	353	VBW:500 Hz

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

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

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

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

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

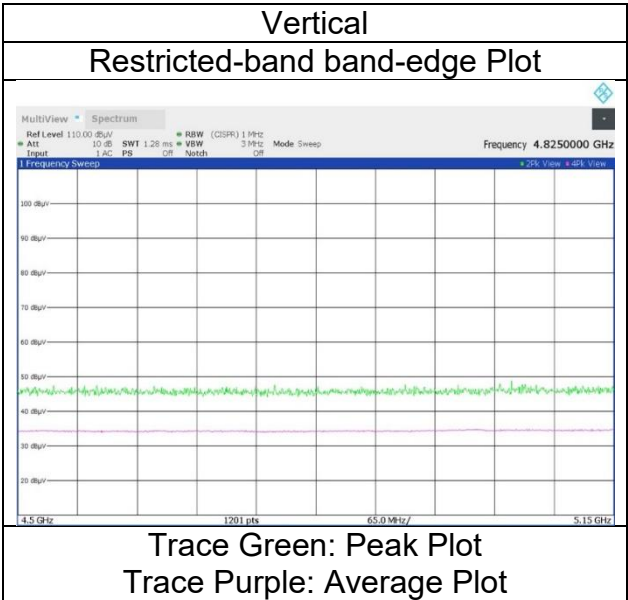
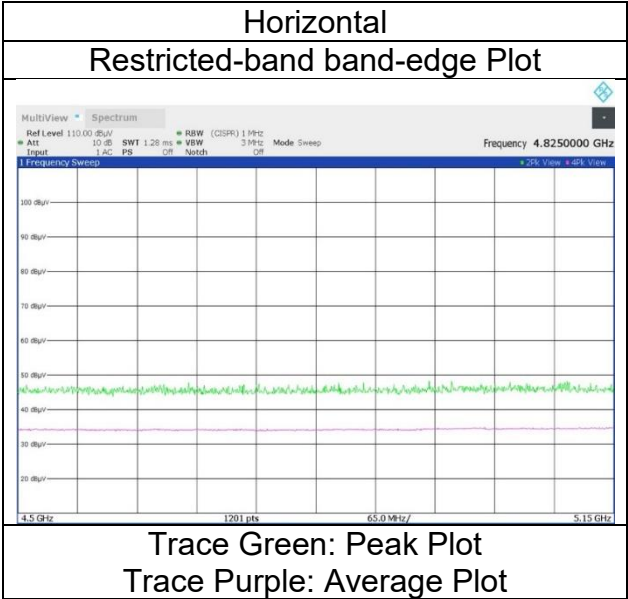
Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
(1 GHz to 6.4 GHz)
Tx 11ax-80(OFDMA) 242-tone 5210 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.17	31.58	-25.29	-	2.10	55.56	73.9	18.3	221	39	-
Hori.	5350.000	AV	34.62	31.58	-25.29	-	2.10	43.01	53.9	10.8	221	39	VBW:500 Hz
Vert.	5350.000	PK	47.85	31.58	-25.29	-	2.10	56.24	73.9	17.6	167	350	-
Vert.	5350.000	AV	34.98	31.58	-25.29	-	2.10	43.37	53.9	10.5	167	350	VBW:500 Hz

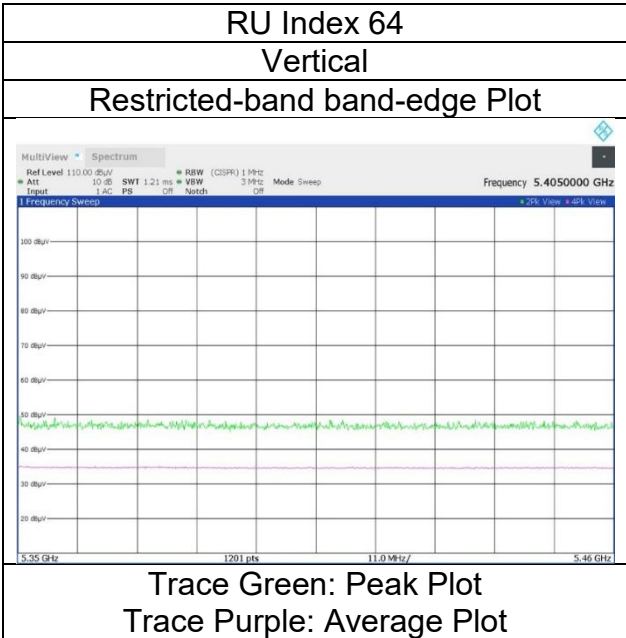
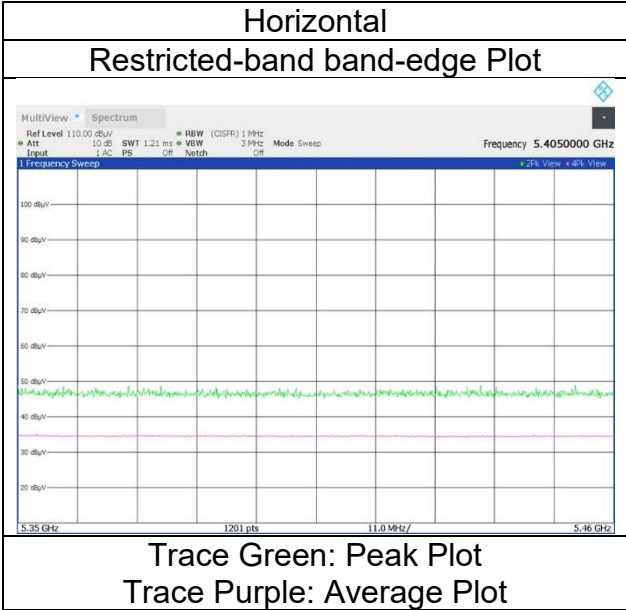
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-80(OFDMA) 242-tone 5290 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.19	31.78	-25.16	-	2.10	55.91	73.9	17.9	137	39	-
Hori.	5460.000	AV	34.54	31.78	-25.16	-	2.10	43.26	53.9	10.6	137	39	VBW:500 Hz
Vert.	5460.000	PK	47.63	31.78	-25.16	-	2.10	56.35	73.9	17.5	184	341	-
Vert.	5460.000	AV	34.75	31.78	-25.16	-	2.10	43.47	53.9	10.4	184	341	VBW:500 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.67	31.79	-25.15	-	2.10	55.41	-39.82	-27.0	12.8	137	39	-
Vert.	5470.000	PK	47.49	31.79	-25.15	-	2.10	56.23	-39.00	-27.0	12.0	184	341	-

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

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

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

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

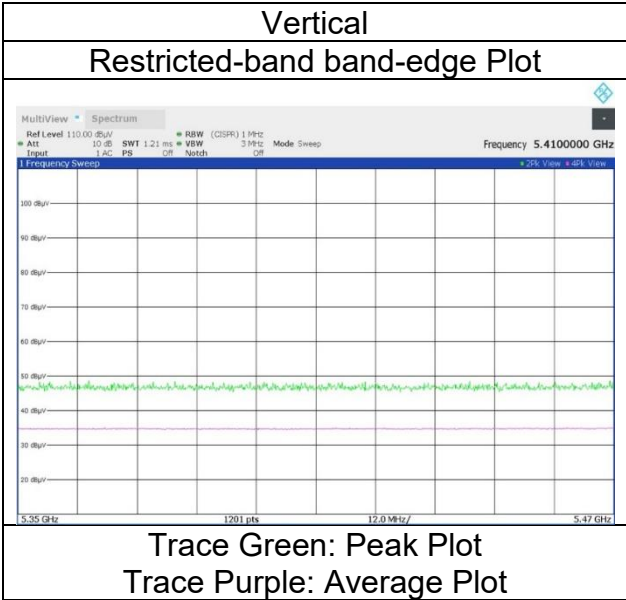
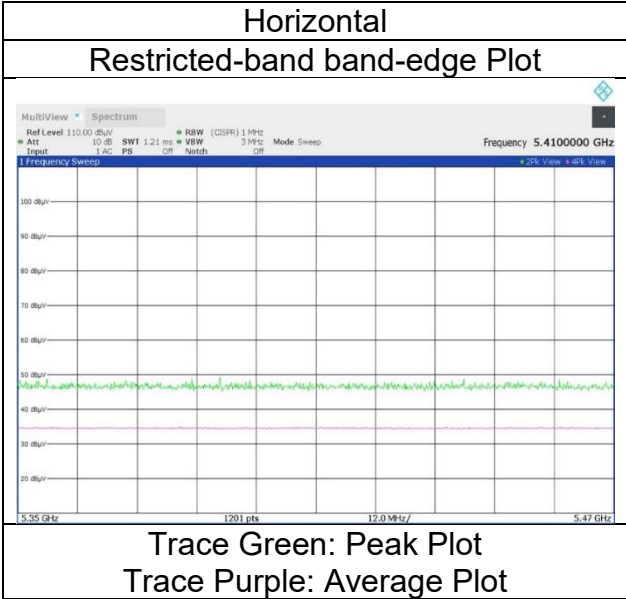
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-80(OFDMA) 242-tone 5530 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 64
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.70	32.01	-25.06		2.10	55.75	-39.48	-27.0	12.4	151	36	-
Vert.	5725.000	PK	47.42	32.01	-25.06		2.10	56.47	-38.76	-27.0	11.7	160	337	-

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

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

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

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

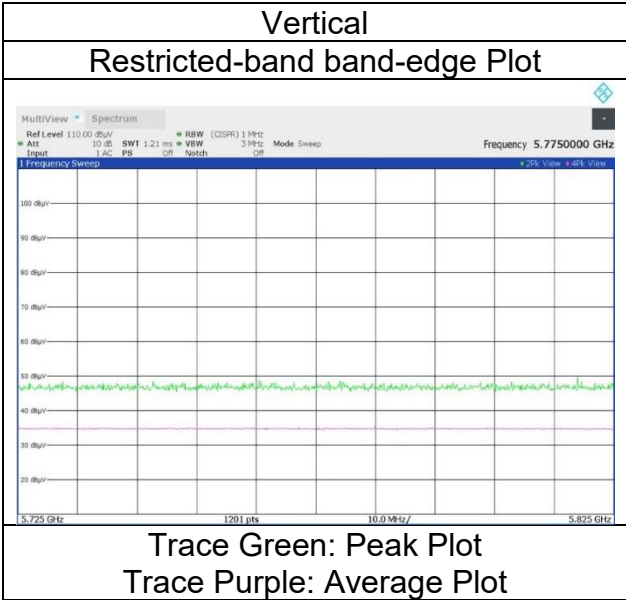
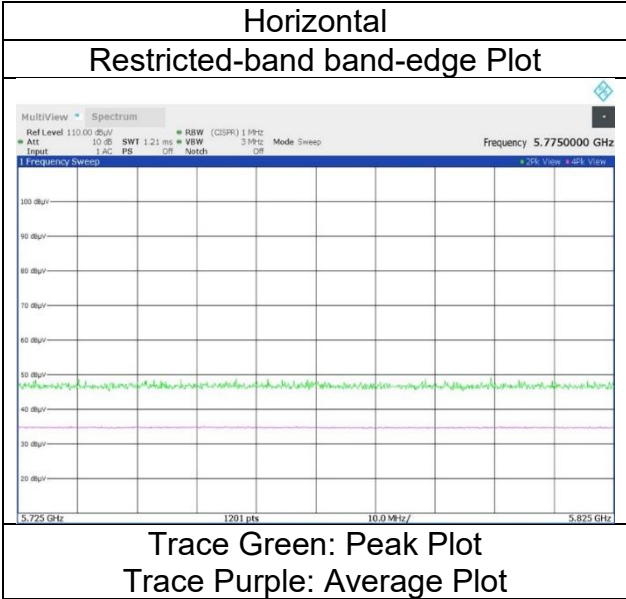
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-80(OFDMA) 242-tone 5610 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.97	31.84	-25.07	-	2.10	55.84	-39.39	-27.0	12.3	145	39	-
Hori.	5700.000	PK	47.31	31.95	-25.06	-	2.10	56.30	-38.93	10.0	48.9	145	39	-
Hori.	5715.000	PK	47.51	31.98	-25.06	-	2.10	56.53	-38.70	14.2	52.8	145	39	-
Hori.	5720.000	PK	50.44	31.99	-25.05	-	2.10	59.48	-35.75	15.6	51.3	145	39	-
Hori.	5725.000	PK	57.42	32.01	-25.06	-	2.10	66.47	-28.76	27.0	55.7	145	39	-
Vert.	5650.000	PK	47.74	31.84	-25.07	-	2.10	56.61	-38.62	-27.0	11.6	191	341	-
Vert.	5700.000	PK	47.14	31.95	-25.06	-	2.10	56.13	-39.10	10.0	49.1	191	341	-
Vert.	5715.000	PK	48.49	31.98	-25.06	-	2.10	57.51	-37.72	14.2	51.9	191	341	-
Vert.	5720.000	PK	52.28	31.99	-25.05	-	2.10	61.32	-33.91	15.6	49.5	191	341	-
Vert.	5725.000	PK	59.99	32.01	-25.06	-	2.10	69.04	-26.19	27.0	53.1	191	341	-

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

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

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

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

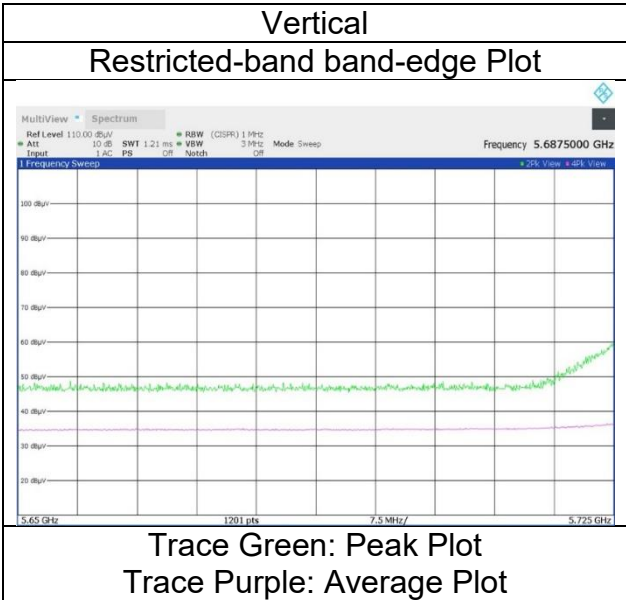
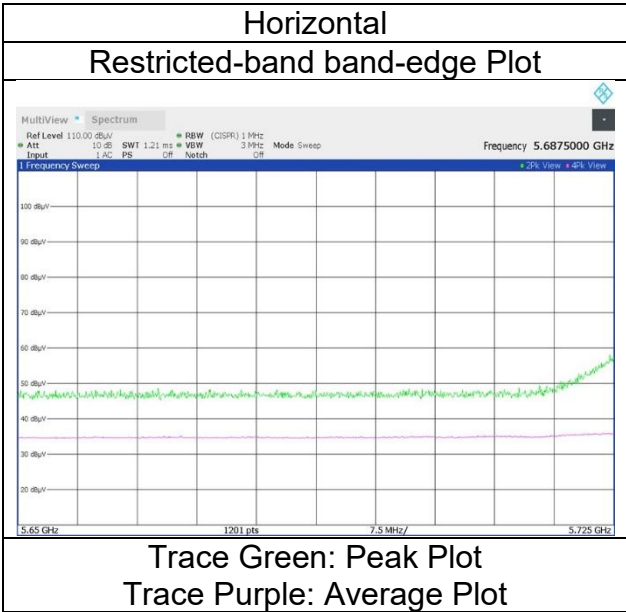
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 242-tone 5775 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 242-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.73	32.33	-25.01	-	2.10	56.15	-39.08	27.0	66.0	151	31	-
Hori.	5855.000	PK	46.87	32.34	-25.00	-	2.10	56.31	-38.92	15.6	54.5	151	31	-
Hori.	5860.000	PK	47.27	32.35	-25.01	-	2.10	56.71	-38.52	14.2	52.7	151	31	-
Hori.	5875.000	PK	48.15	32.38	-25.00	-	2.10	57.63	-37.60	10.0	47.6	151	31	-
Hori.	5925.000	PK	46.49	32.46	-24.99	-	2.10	56.06	-39.17	-27.0	12.1	151	31	-
Vert.	5850.000	PK	46.61	32.33	-25.01	-	2.10	56.03	-39.20	27.0	66.2	160	344	-
Vert.	5855.000	PK	46.79	32.34	-25.00	-	2.10	56.23	-39.00	15.6	54.6	160	344	-
Vert.	5860.000	PK	47.74	32.35	-25.01	-	2.10	57.18	-38.05	14.2	52.2	160	344	-
Vert.	5875.000	PK	46.95	32.38	-25.00	-	2.10	56.43	-38.80	10.0	48.8	160	344	-
Vert.	5925.000	PK	47.26	32.46	-24.99	-	2.10	56.83	-38.40	-27.0	11.4	160	344	-

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

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

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

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

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

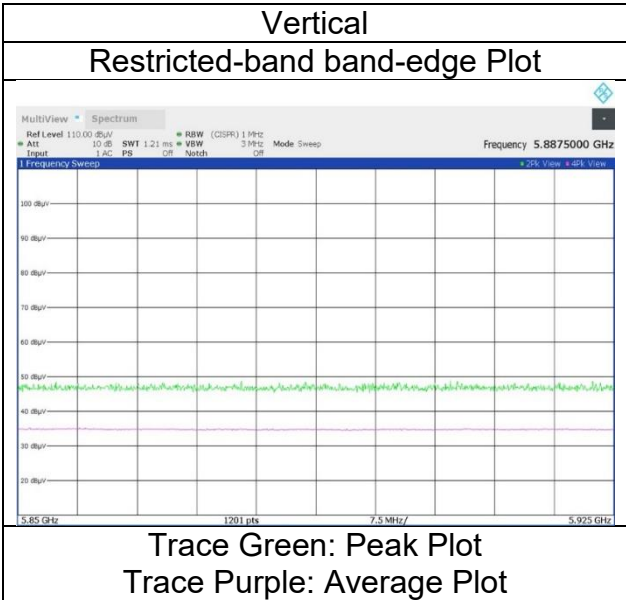
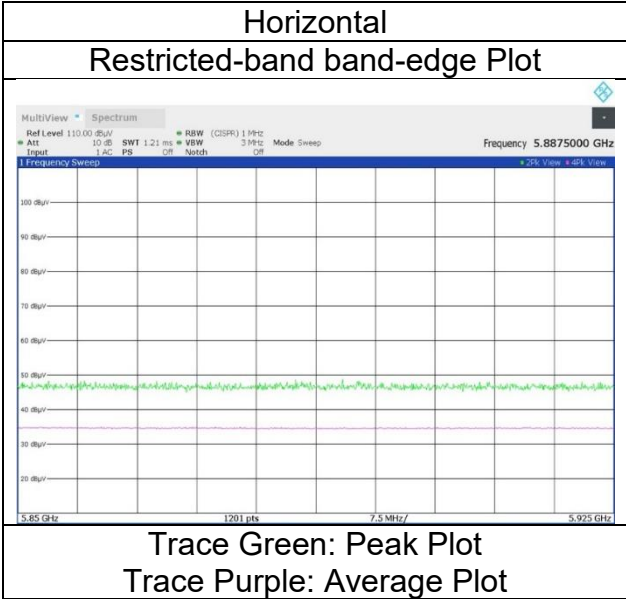
Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode
Antenna type

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
(1 GHz to 6.4 GHz)
Tx 11ax-80(OFDMA) 242-tone 5775 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 64



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 484-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	48.39	31.86	-25.53	-	2.10	56.82	73.9	17.0	100	0	-
Hori.	5150.000	AV	34.66	31.86	-25.53	-	2.10	43.09	53.9	10.8	100	0	VBW: 1 kHz
Vert.	5150.000	PK	47.24	31.86	-25.53	-	2.10	55.67	73.9	18.2	100	0	-
Vert.	5150.000	AV	35.32	31.86	-25.53	-	2.10	43.75	53.9	10.1	100	0	VBW: 1 kHz

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

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

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

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

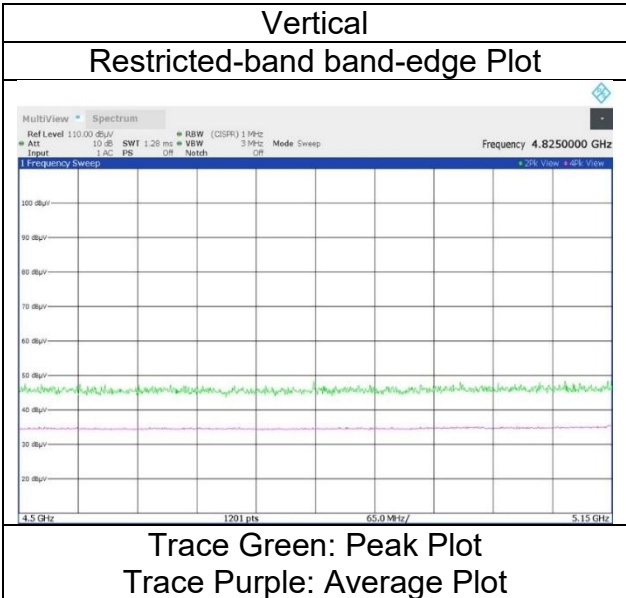
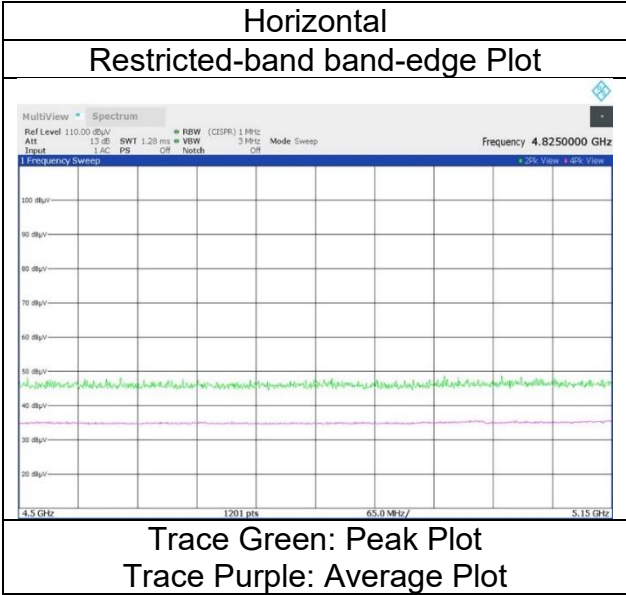
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5210 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 65



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 484-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.86	31.58	-25.29	-	2.10	56.25	73.9	17.6	151	39	-
Hori.	5350.000	AV	35.18	31.58	-25.29	-	2.10	43.57	53.9	10.3	151	39	VBW: 1 kHz
Vert.	5350.000	PK	48.04	31.58	-25.29	-	2.10	56.43	73.9	17.4	154	353	-
Vert.	5350.000	AV	35.63	31.58	-25.29	-	2.10	44.02	53.9	9.8	154	353	VBW: 1 kHz

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

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

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

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

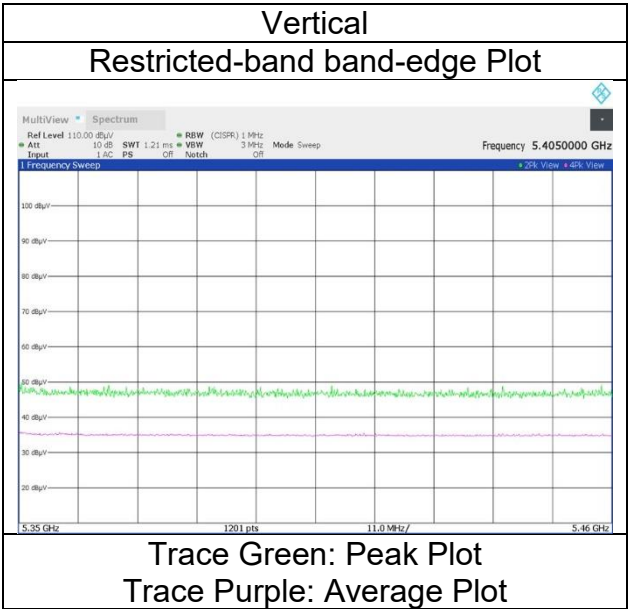
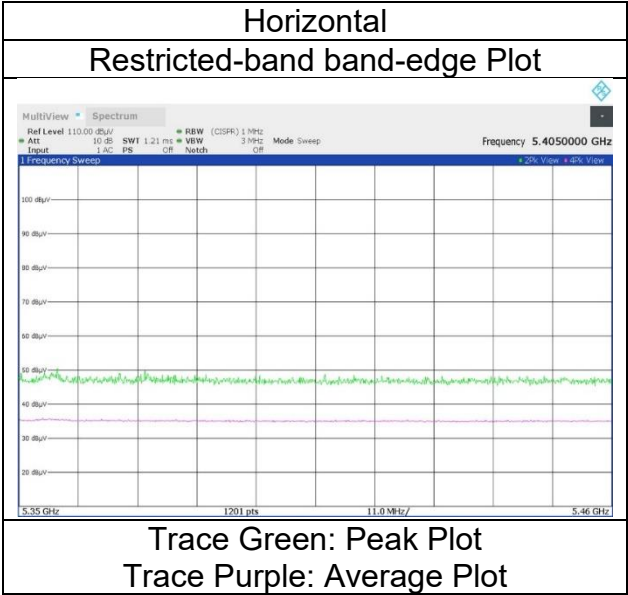
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5290 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 484-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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	47.14	31.78	-25.16	-	2.10	55.86	73.9	18.0	127	45	-
Hori.	5460.000	AV	34.67	31.78	-25.16	-	2.10	43.39	53.9	10.5	127	45	VBW: 1kHz
Vert.	5460.000	PK	47.91	31.78	-25.16	-	2.10	56.63	73.9	17.2	151	340	-
Vert.	5460.000	AV	35.02	31.78	-25.16	-	2.10	43.74	53.9	10.1	151	340	VBW: 1kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.04	31.79	-25.15	-	2.10	55.78	-39.45	-27.0	12.4	127	45	-
Vert.	5470.000	PK	47.73	31.79	-25.15	-	2.10	56.47	-38.76	-27.0	11.7	151	340	-

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

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

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

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

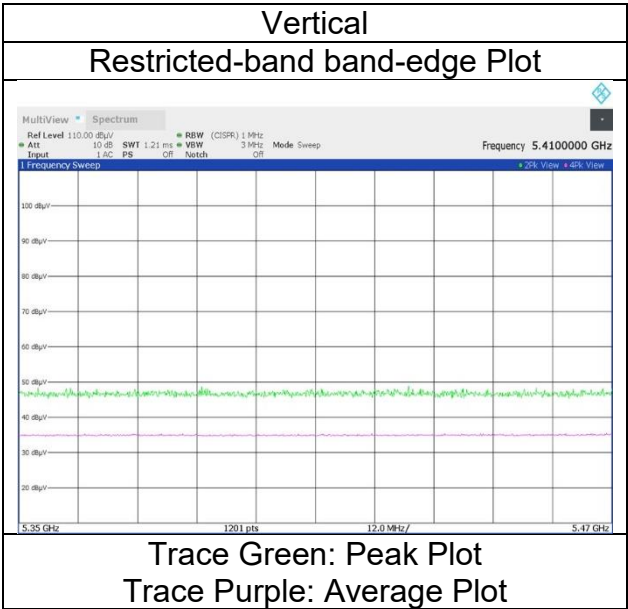
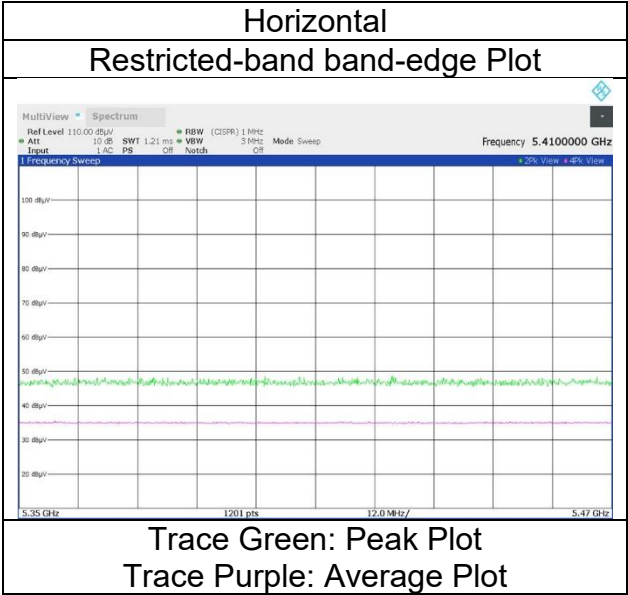
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5530 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 65



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 24, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80(OFDMA) 484-tone 5610 MHz
Antenna type	5G CH 0: monopole 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remarks
Hori.	5725.000	PK	47.74	32.01	-25.06	-	2.10	56.79	-38.44	-27.0	11.4	182	39	-
Vert.	5725.000	PK	47.30	32.01	-25.06	-	2.10	56.35	-38.88	-27.0	11.8	147	336	-

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

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

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

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

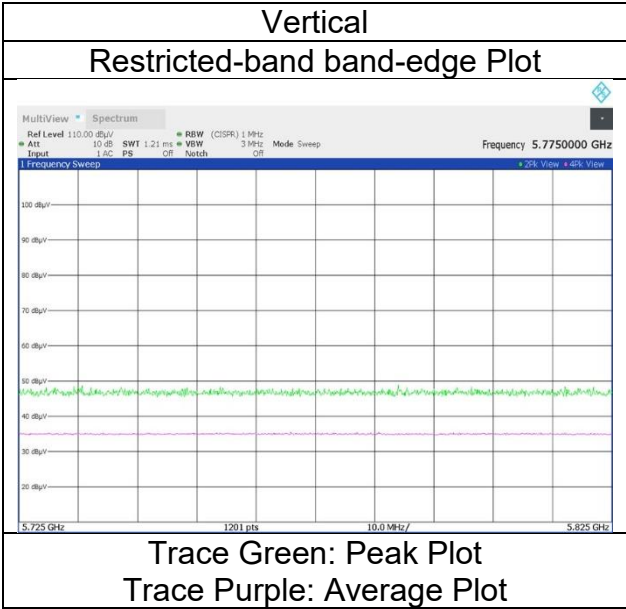
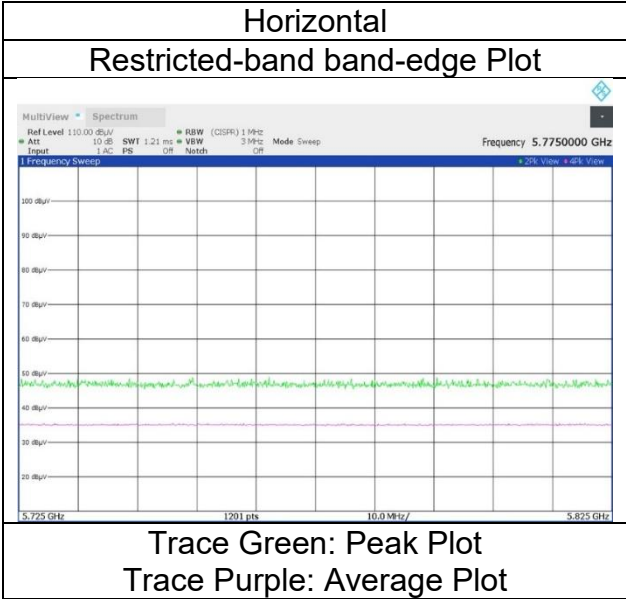
10 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5610 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 484-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.32	31.84	-25.07	-	2.10	56.19	-39.04	-27.0	12.0	158	37	-
Hori.	5700.000	PK	46.41	31.95	-25.06	-	2.10	55.40	-39.83	10.0	49.8	158	37	-
Hori.	5715.000	PK	47.96	31.98	-25.06	-	2.10	56.98	-38.25	14.2	52.4	158	37	-
Hori.	5720.000	PK	49.11	31.99	-25.05	-	2.10	58.15	-37.08	15.6	52.6	158	37	-
Hori.	5725.000	PK	55.85	32.01	-25.06	-	2.10	64.90	-30.33	27.0	57.3	158	37	-
Vert.	5650.000	PK	47.41	31.84	-25.07	-	2.10	56.28	-38.95	-27.0	11.9	153	343	-
Vert.	5700.000	PK	46.31	31.95	-25.06	-	2.10	55.30	-39.93	10.0	49.9	153	343	-
Vert.	5715.000	PK	47.62	31.98	-25.06	-	2.10	56.64	-38.59	14.2	52.7	153	343	-
Vert.	5720.000	PK	51.17	31.99	-25.05	-	2.10	60.21	-35.02	15.6	50.6	153	343	-
Vert.	5725.000	PK	56.91	32.01	-25.06	-	2.10	65.96	-29.27	27.0	56.2	153	343	-

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

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

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

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

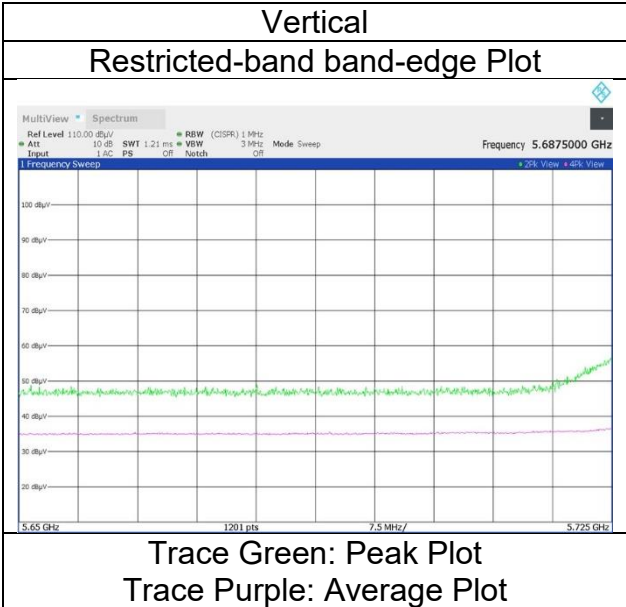
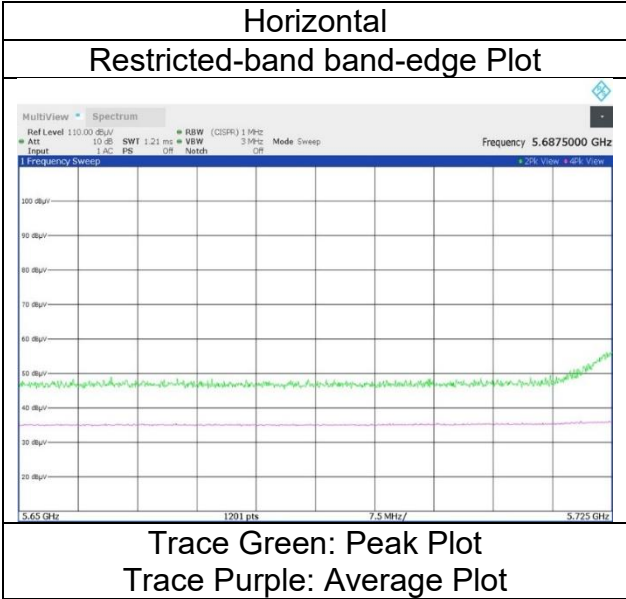
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5775 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 484-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.63	32.33	-25.01	-	2.10	57.05	-38.18	27.0	65.1	216	38	-
Hori.	5855.000	PK	47.74	32.34	-25.00	-	2.10	57.18	-38.05	15.6	53.6	216	38	-
Hori.	5860.000	PK	46.87	32.35	-25.01	-	2.10	56.31	-38.92	14.2	53.1	216	38	-
Hori.	5875.000	PK	46.76	32.38	-25.00	-	2.10	56.24	-38.99	10.0	48.9	216	38	-
Hori.	5925.000	PK	47.26	32.46	-24.99	-	2.10	56.83	-38.40	-27.0	11.4	216	38	-
Vert.	5850.000	PK	48.03	32.33	-25.01	-	2.10	57.45	-37.78	27.0	64.7	148	339	-
Vert.	5855.000	PK	47.04	32.34	-25.00	-	2.10	56.48	-38.75	15.6	54.3	148	339	-
Vert.	5860.000	PK	46.91	32.35	-25.01	-	2.10	56.35	-38.88	14.2	53.0	148	339	-
Vert.	5875.000	PK	47.25	32.38	-25.00	-	2.10	56.73	-38.50	10.0	48.5	148	339	-
Vert.	5925.000	PK	46.77	32.46	-24.99	-	2.10	56.34	-38.89	-27.0	11.8	148	339	-

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

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

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

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

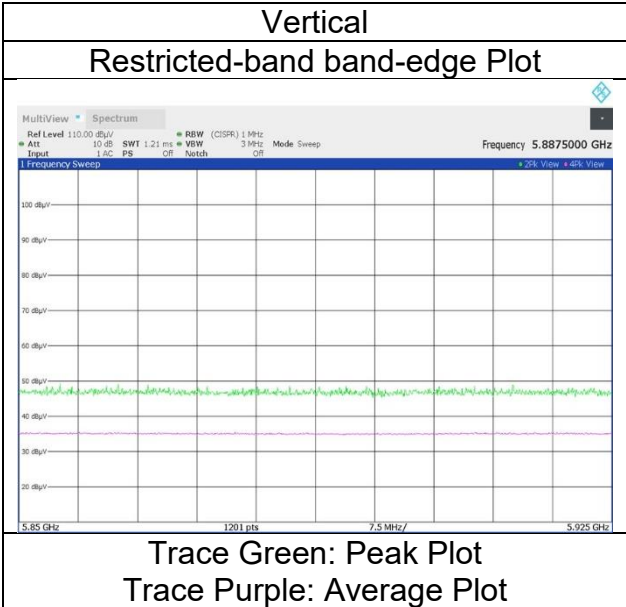
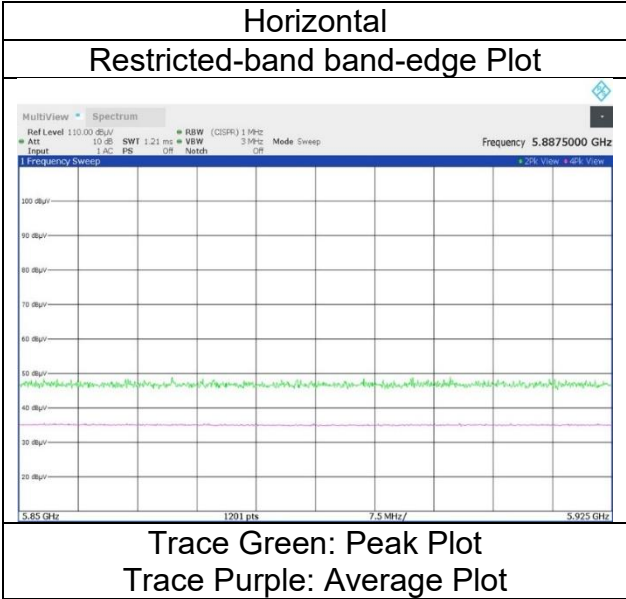
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 484-tone 5775 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 66



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 996-tone 5210 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 67
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.91	31.86	-25.53	-	2.10	56.34	73.9	17.5	170	39	-
Hori.	5150.000	AV	36.17	31.86	-25.53	-	2.10	44.60	53.9	9.3	170	39	VBW: 2 kHz
Vert.	5150.000	PK	50.50	31.86	-25.53	-	2.10	58.93	73.9	14.9	160	343	-
Vert.	5150.000	AV	36.92	31.86	-25.53	-	2.10	45.35	53.9	8.5	160	343	VBW: 2 kHz

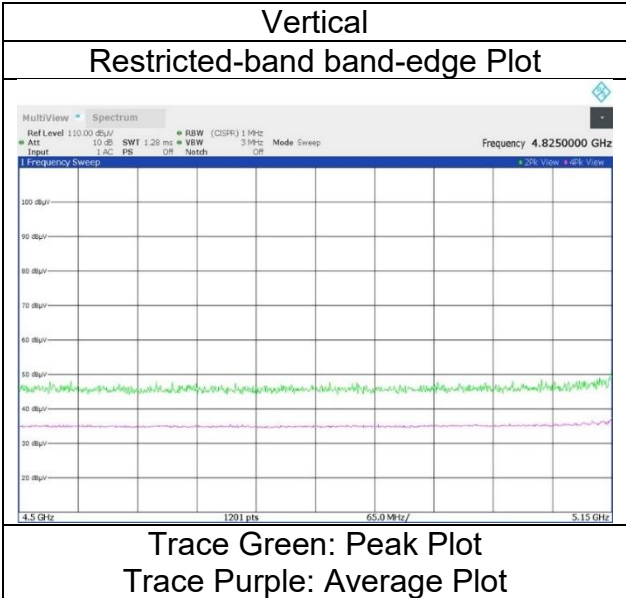
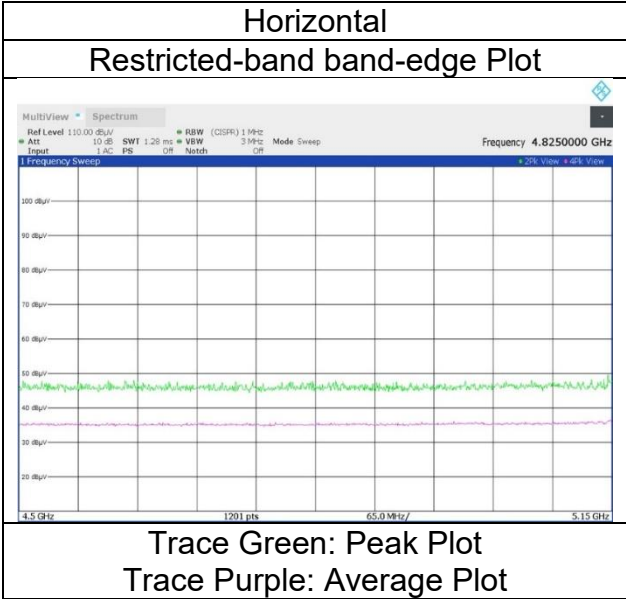
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 996-tone 5210 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Index 67



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 996-tone 5290 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Index 67
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.35	31.58	-25.29	-	2.10	56.74	73.9	17.1	238	32	-
Hori.	5350.000	AV	36.12	31.58	-25.29	-	2.10	44.51	53.9	9.3	238	32	VBW: 2 kHz
Vert.	5350.000	PK	50.97	31.58	-25.29	-	2.10	59.36	73.9	14.5	229	339	-
Vert.	5350.000	AV	36.16	31.58	-25.29	-	2.10	44.55	53.9	9.3	229	339	VBW: 2 kHz

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

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

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

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

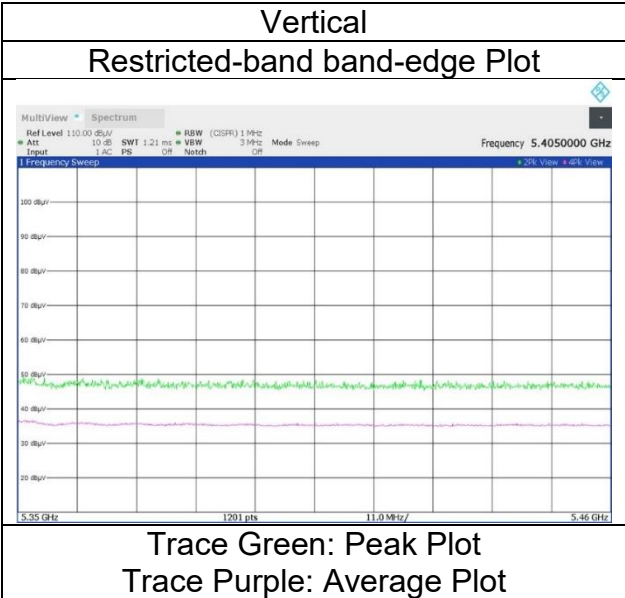
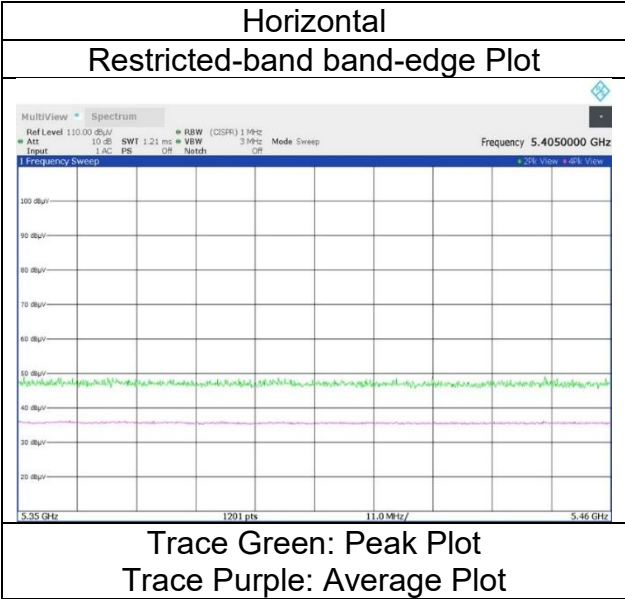
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 996-tone 5290 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 996-tone 5530 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.17	31.78	-25.16	-	2.10	56.89	73.9	17.0	207	34	-
Hori.	5460.000	AV	35.61	31.78	-25.16	-	2.10	44.33	53.9	9.5	207	34	VBW: 2 kHz
Vert.	5460.000	PK	47.39	31.78	-25.16	-	2.10	56.11	73.9	17.7	142	332	-
Vert.	5460.000	AV	34.94	31.78	-25.16	-	2.10	43.66	53.9	10.2	142	332	VBW: 2 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.85	31.79	-25.15	-	2.10	58.59	-36.64	-27.0	9.6	207	34	-
Vert.	5470.000	PK	47.22	31.79	-25.15	-	2.10	55.96	-39.27	-27.0	12.2	142	332	-

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

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

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

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

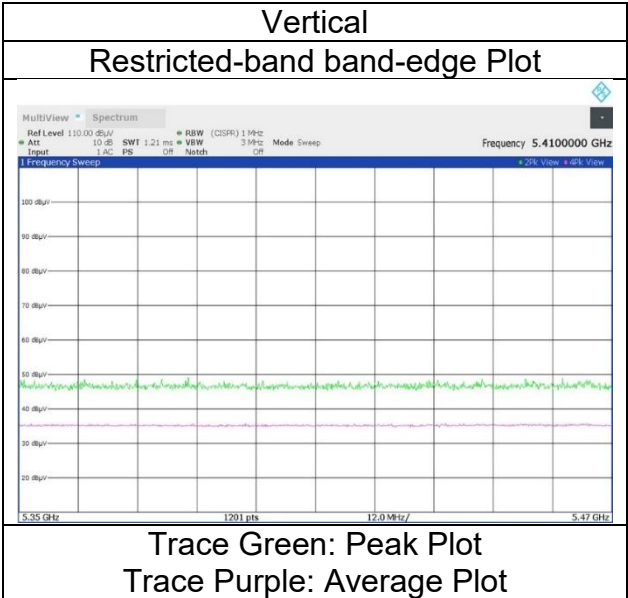
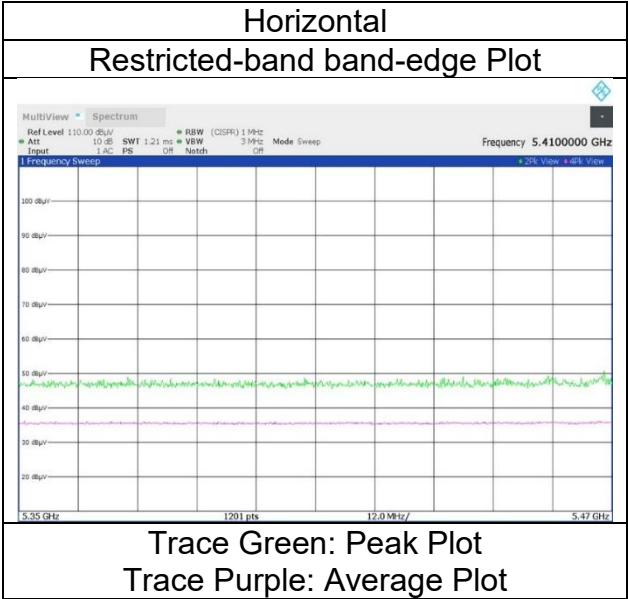
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 996-tone 5530 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 996-tone 5610 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.07	32.01	-25.06	-	2.10	57.12	-38.11	-27.0	11.1	169	36	-
Vert.	5725.000	PK	47.11	32.01	-25.06	-	2.10	56.16	-39.07	-27.0	12.0	170	337	-

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

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

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

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

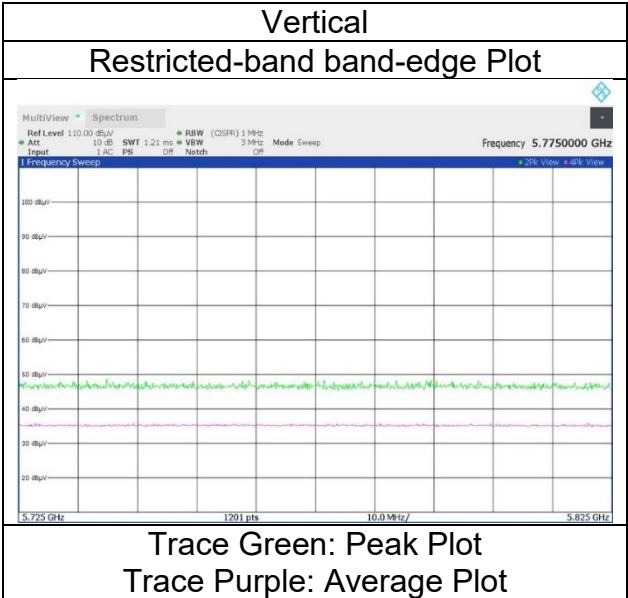
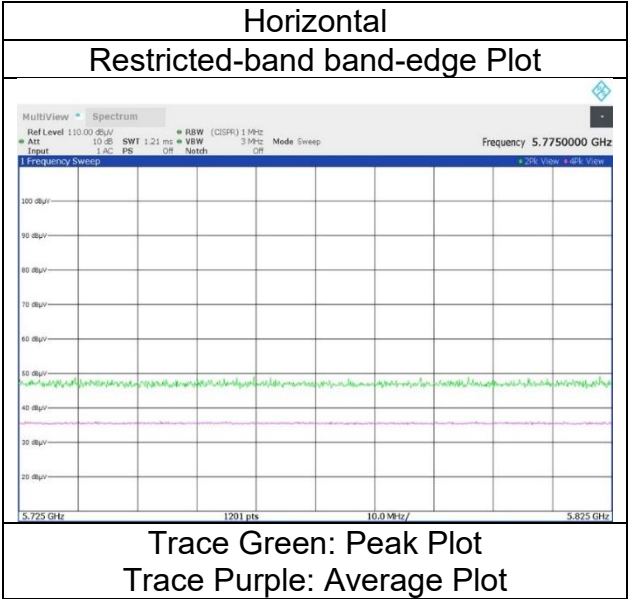
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
21 deg. C / 65 % RH
Hiromasa Sato
Tx 11ax-80(OFDMA) 996-tone 5610 MHz
5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 24, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80(OFDMA) 996-tone 5775 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.63	31.84	-25.07	-	2.10	56.50	-38.73	-27.0	11.7	183	38	-
Hori.	5700.000	PK	48.40	31.95	-25.06	-	2.10	57.39	-37.84	10.0	47.8	183	38	-
Hori.	5708.607	PK	51.04	31.97	-25.06	-	2.10	60.05	-35.18	12.5	47.6	183	38	-
Hori.	5715.000	PK	47.08	31.98	-25.06	-	2.10	56.10	-39.13	14.2	53.3	183	38	-
Hori.	5720.000	PK	49.75	31.99	-25.05	-	2.10	58.79	-36.44	15.6	52.0	183	38	-
Hori.	5725.000	PK	54.47	32.01	-25.06	-	2.10	63.52	-31.71	27.0	58.7	183	38	-
Hori.	5850.000	PK	47.94	32.33	-25.01	-	2.10	57.36	-37.87	27.0	64.8	183	38	-
Hori.	5855.000	PK	47.28	32.34	-25.00	-	2.10	56.72	-38.51	15.6	54.1	183	38	-
Hori.	5860.000	PK	47.43	32.35	-25.01	-	2.10	56.87	-38.36	14.2	52.5	183	38	-
Hori.	5875.000	PK	46.95	32.38	-25.00	-	2.10	56.43	-38.80	10.0	48.8	183	38	-
Hori.	5925.000	PK	47.84	32.46	-24.99	-	2.10	57.41	-37.82	-27.0	10.8	183	38	-
Vert.	5650.000	PK	46.12	31.84	-25.07	-	2.10	54.99	-40.24	-27.0	13.2	159	338	-
Vert.	5700.000	PK	49.56	31.95	-25.06	-	2.10	58.55	-36.68	10.0	46.6	159	338	-
Vert.	5708.420	PK	50.57	31.97	-25.06	-	2.10	59.58	-35.65	12.4	48.0	159	338	-
Vert.	5715.000	PK	47.24	31.98	-25.06	-	2.10	56.26	-38.97	14.2	53.1	159	338	-
Vert.	5720.000	PK	48.99	31.99	-25.05	-	2.10	58.03	-37.20	15.6	52.8	159	338	-
Vert.	5725.000	PK	53.53	32.01	-25.06	-	2.10	62.58	-32.65	27.0	59.6	159	338	-
Vert.	5850.000	PK	48.38	32.33	-25.01	-	2.10	57.80	-37.43	27.0	64.4	159	338	-
Vert.	5855.000	PK	46.98	32.34	-25.00	-	2.10	56.42	-38.81	15.6	54.4	159	338	-
Vert.	5860.000	PK	47.91	32.35	-25.01	-	2.10	57.35	-37.88	14.2	52.0	159	338	-
Vert.	5875.000	PK	46.33	32.38	-25.00	-	2.10	55.81	-39.42	10.0	49.4	159	338	-
Vert.	5925.000	PK	46.97	32.46	-24.99	-	2.10	56.54	-38.69	-27.0	11.6	159	338	-

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

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

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

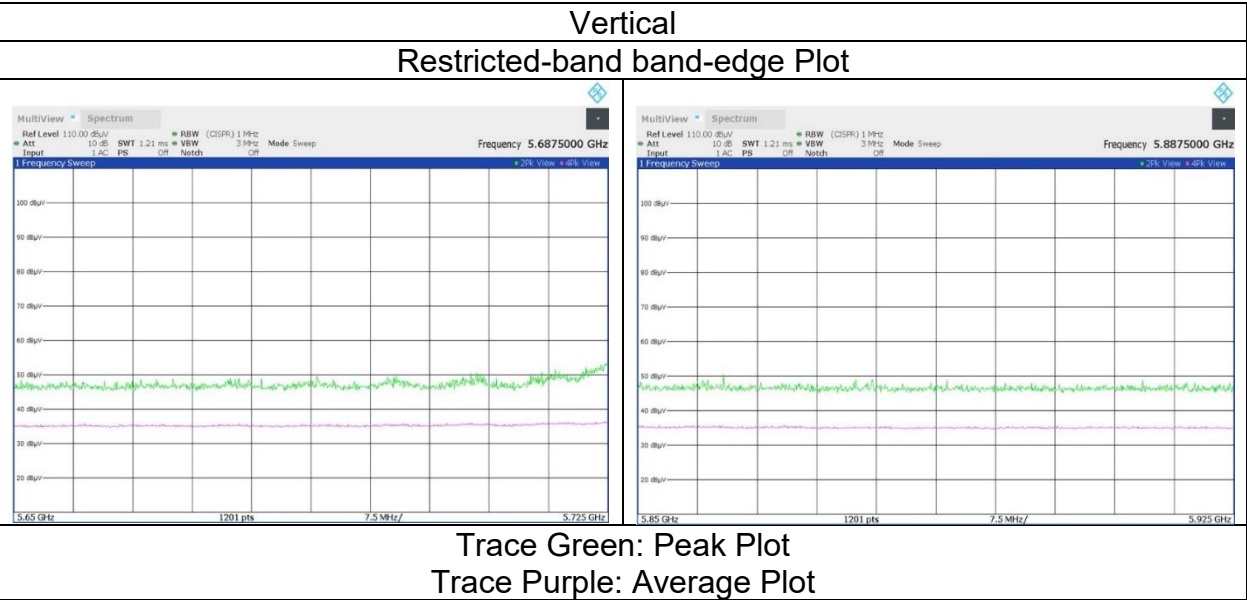
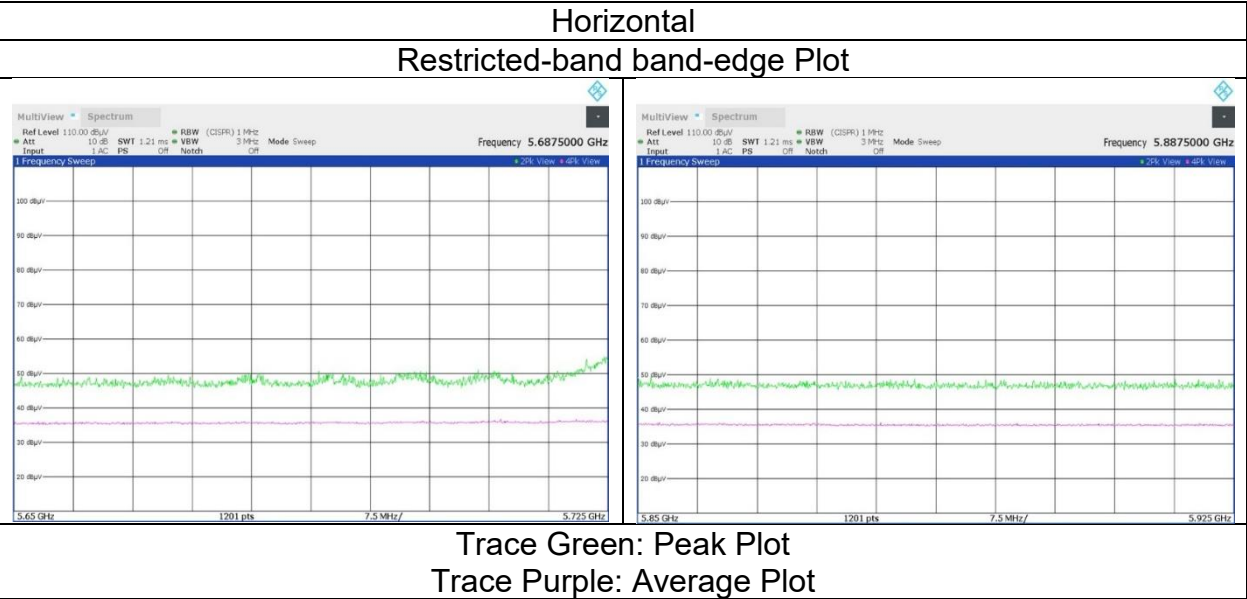
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 24, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	Tx 11ax-80(OFDMA) 996-tone 5775 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC 1	WAC 1	SAC 3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Takayuki Kobayashi (6.4 GHz to 10 GHz)	Yosuke Murakami (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	June 13, 2024	June 12, 2024	
Temperature / Humidity	23 deg. C / 64 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ax-160(OFDM) 5250 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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.	5100.000	PK	48.68	31.96	-24.96	-	2.10	57.78	73.9	16.1	153	40	-	
Hori.	5150.000	PK	49.71	31.86	-24.90	-	2.10	58.77	73.9	15.1	153	40	-	
Hori.	5350.000	PK	50.08	31.58	-24.65	-	2.10	59.11	73.9	14.7	153	40	-	
Hori.	15750.000	PK	46.87	39.69	11.60	40.57	-9.54	48.05	73.9	25.8	150	0	-	
Hori.	5100.000	AV	34.23	31.96	-24.96	-	2.10	43.33	53.9	10.5	153	40	VBW: 200 Hz	
Hori.	5150.000	AV	34.48	31.86	-24.90	-	2.10	43.54	53.9	10.3	153	40	VBW: 200 Hz	
Hori.	5350.000	AV	35.36	31.58	-24.65	-	2.10	44.39	53.9	9.5	153	40	VBW: 200 Hz	
Hori.	15750.000	AV	34.97	39.69	11.60	40.57	-9.54	36.15	53.9	17.7	150	0	VBW: 200 Hz, Floor noise	
Vert.	5100.000	PK	49.46	31.96	-24.96	-	2.10	58.56	73.9	15.3	146	203	-	
Vert.	5150.000	PK	49.68	31.86	-24.90	-	2.10	58.74	73.9	15.1	146	203	-	
Vert.	5350.000	PK	51.63	31.58	-24.65	-	2.10	60.66	73.9	13.2	146	203	-	
Vert.	15750.000	PK	46.90	39.69	11.60	40.57	-9.54	48.08	73.9	25.8	150	0	-	
Vert.	5100.000	AV	34.36	31.96	-24.96	-	2.10	43.46	53.9	10.4	146	203	VBW: 200 Hz	
Vert.	5150.000	AV	34.93	31.86	-24.90	-	2.10	43.99	53.9	9.9	146	203	VBW: 200 Hz	
Vert.	5350.000	AV	36.56	31.58	-24.65	-	2.10	45.59	53.9	8.3	146	203	VBW: 200 Hz	
Vert.	15750.000	AV	34.99	39.69	11.60	40.57	-9.54	36.17	53.9	17.7	150	0	VBW: 200 Hz, Floor noise	

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

(* PK: Peak, AV: 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.	6999.869	PK	54.03	35.68	-33.34	-	2.10	58.47	-36.76	-27.0	9.7	138	66	-
Hori.	10500.000	PK	50.25	36.56	9.41	42.84	-9.54	43.84	-51.39	-27.0	24.3	206	205	-
Vert.	6999.938	PK	54.16	35.68	-33.34	-	2.10	58.60	-36.63	-27.0	9.6	133	98	-
Vert.	10500.000	PK	49.70	36.56	9.41	42.84	-9.54	43.29	-51.94	-27.0	24.9	203	277	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

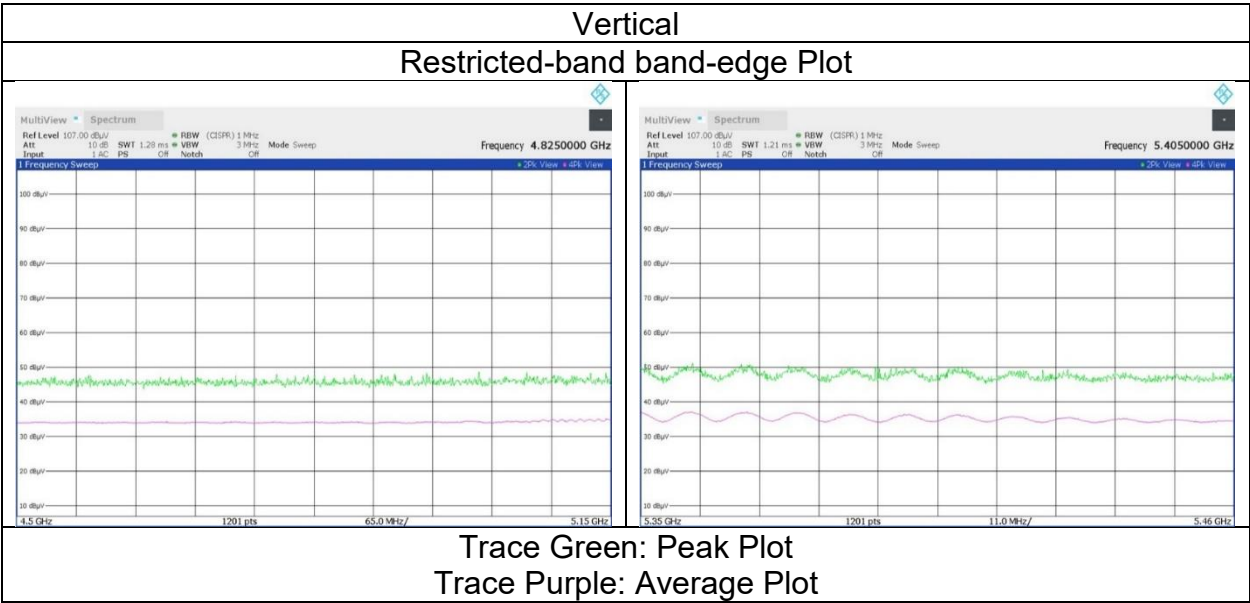
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-160(OFDM) 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC 1	WAC 1	SAC 3
Date	March 8, 2024	March 12, 2024	December 21, 2023
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 31 % RH	21 deg. C / 26 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Takayuki Kobayashi (6.4 GHz to 10 GHz)	Yosuke Murakami (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC 1	WAC 1	
Date	June 13, 2024	June 12, 2024	
Temperature / Humidity	23 deg. C / 64 % RH	24 deg. C / 67 % RH	
Engineer	Hiromasa Sato (18 GHz to 26.5 GHz)	Hiromasa Sato (26.5 GHz to 40 GHz)	
Mode	Tx 11ax-160(OFDM) 5570 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole		

(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	49.26	31.78	-24.51	-	2.10	58.63	73.9	15.2	152	33	-
Hori.	7426.858	PK	48.71	36.43	-32.73	-	2.10	54.51	73.9	19.3	143	146	-
Hori.	11140.000	PK	47.23	37.68	9.67	42.81	-9.54	42.23	73.9	31.6	207	205	-
Hori.	5460.000	AV	34.79	31.78	-24.51	-	2.10	44.16	53.9	9.7	152	33	VBW: 200 Hz
Hori.	11140.000	AV	34.99	37.68	9.67	42.81	-9.54	29.99	53.9	23.9	207	205	VBW: 200 Hz
Vert.	5460.000	PK	49.36	31.78	-24.51	-	2.10	58.73	73.9	15.1	256	2	-
Vert.	7426.858	PK	48.16	36.43	-32.73	-	2.10	53.96	73.9	19.9	140	147	-
Vert.	11140.000	PK	47.76	37.68	9.67	42.81	-9.54	42.76	73.9	31.1	211	217	-
Vert.	5460.000	AV	34.76	31.78	-24.51	-	2.10	44.13	53.9	9.7	256	2	VBW: 200 Hz
Vert.	11140.000	AV	35.08	37.68	9.67	42.81	-9.54	30.08	53.9	23.8	211	217	VBW: 200 Hz

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	49.87	31.79	-24.50	-	2.10	59.26	-35.97	-27.0	8.9	152	33	-
Hori.	5725.000	PK	49.24	32.01	-24.39	-	2.10	58.96	-36.27	-27.0	9.2	152	33	-
Hori.	6683.942	PK	50.11	34.32	-33.36	-	2.10	53.17	-42.06	-27.0	15.0	159	64	-
Hori.	16710.000	PK	46.56	39.63	12.38	40.58	-9.54	48.45	-46.78	-27.0	19.7	150	0	-
Vert.	5470.000	PK	49.72	31.79	-24.50	-	2.10	59.11	-36.12	-27.0	9.1	256	2	-
Vert.	5725.000	PK	49.68	32.01	-24.39	-	2.10	59.40	-35.83	-27.0	8.8	256	2	-
Vert.	6683.946	PK	49.92	34.32	-33.36	-	2.10	52.98	-42.25	-27.0	15.2	150	100	-
Vert.	16710.000	PK	46.22	39.63	12.38	40.58	-9.54	48.11	-47.12	-27.0	20.1	150	0	-

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

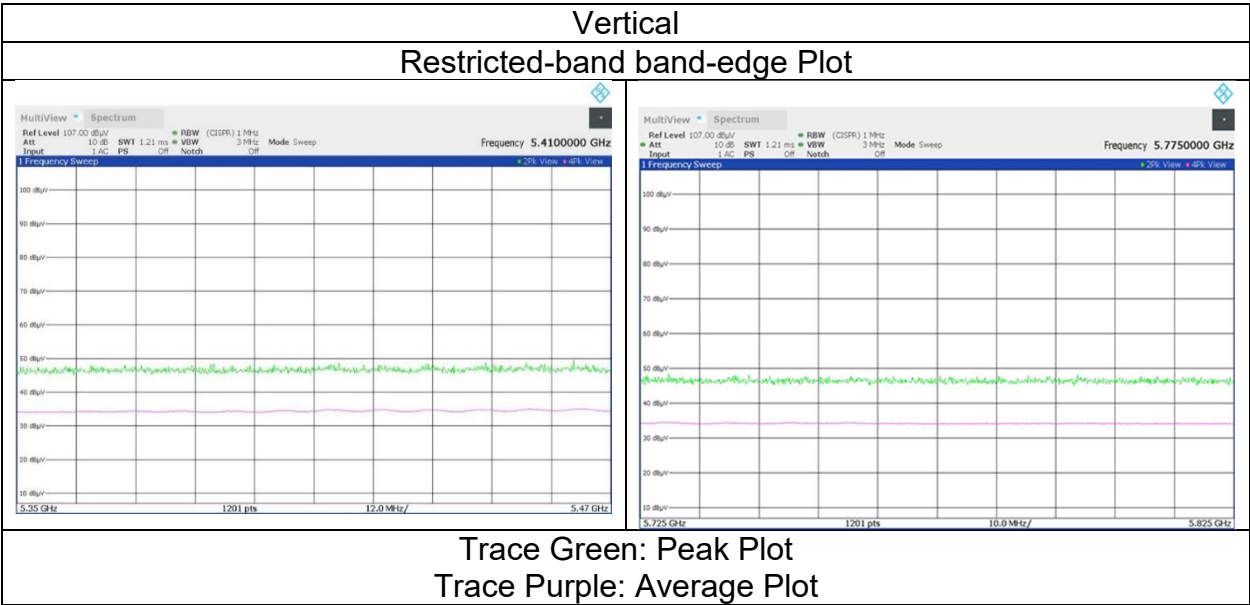
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-160(OFDM) 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
 (1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 26-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	46.61	31.86	-25.53	-	2.10	55.04	73.9	18.8	209	339	-
Hori.	5150.000	AV	34.80	31.86	-25.53	-	2.10	43.23	53.9	10.6	209	339	VBW:1 kHz
Vert.	5150.000	PK	46.34	31.86	-25.53	-	2.10	54.77	73.9	19.1	130	342	-
Vert.	5150.000	AV	34.81	31.86	-25.53	-	2.10	43.24	53.9	10.6	130	342	VBW:1 kHz

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

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

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

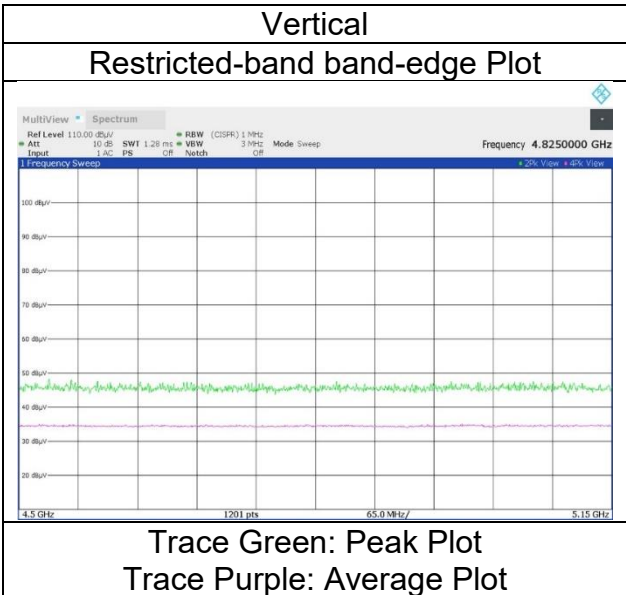
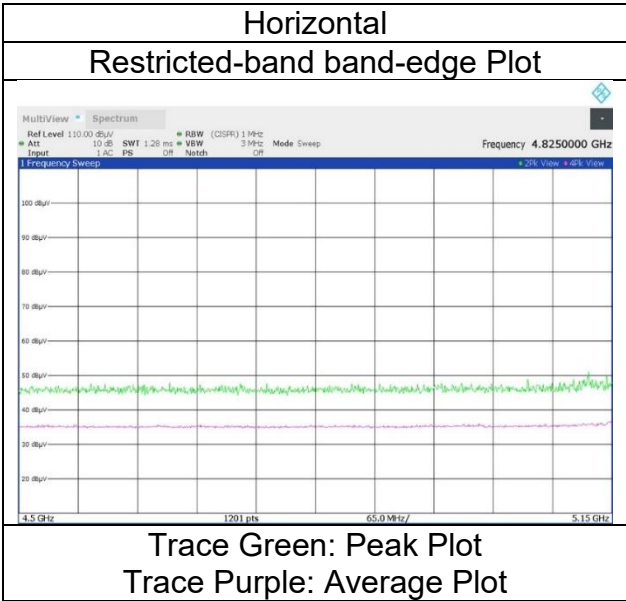
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 26-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 26-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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	46.81	31.58	-25.29	-	2.10	55.20	73.9	18.7	170	333	-
Hori.	5350.000	AV	34.49	31.58	-25.29	-	2.10	42.88	53.9	11.0	170	333	VBW:1 kHz
Vert.	5350.000	PK	46.89	31.58	-25.29	-	2.10	55.28	73.9	18.6	150	354	-
Vert.	5350.000	AV	34.67	31.58	-25.29	-	2.10	43.06	53.9	10.8	150	354	VBW:1 kHz

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

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

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

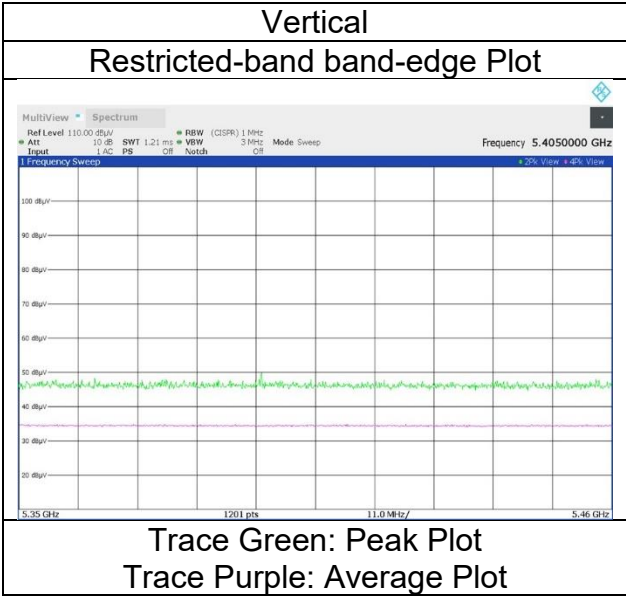
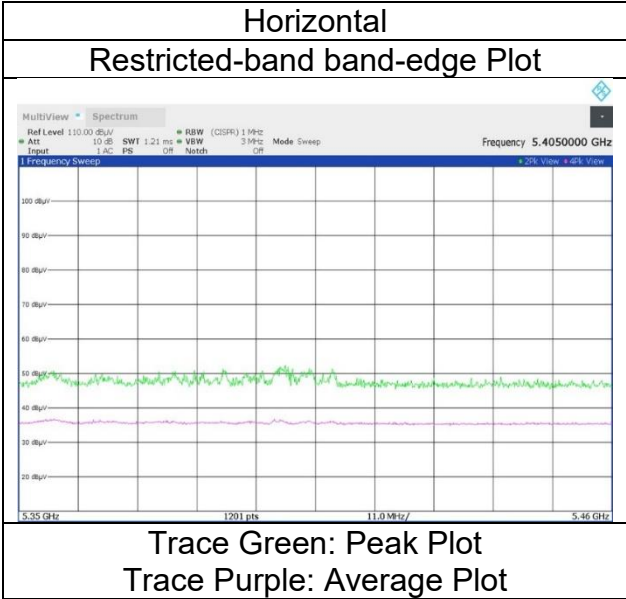
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 26-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 36



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	TX 11ax-160(OFDMA) 26-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	48.40	31.78	-25.16	-	2.10	57.12	73.9	16.7	134	328	-
Hori.	5460.000	AV	34.86	31.78	-25.16	-	2.10	43.58	53.9	10.3	134	328	VBW:1 kHz
Vert.	5460.000	PK	47.12	31.78	-25.16	-	2.10	55.84	73.9	18.0	119	339	-
Vert.	5460.000	AV	34.52	31.78	-25.16	-	2.10	43.24	53.9	10.6	119	339	VBW:1 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.08	31.79	-25.15	-	2.10	55.82	-39.41	-27.0	12.4	134	328	-
Vert.	5470.000	PK	47.75	31.79	-25.15	-	2.10	56.49	-38.74	-27.0	11.7	119	339	-

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

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

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

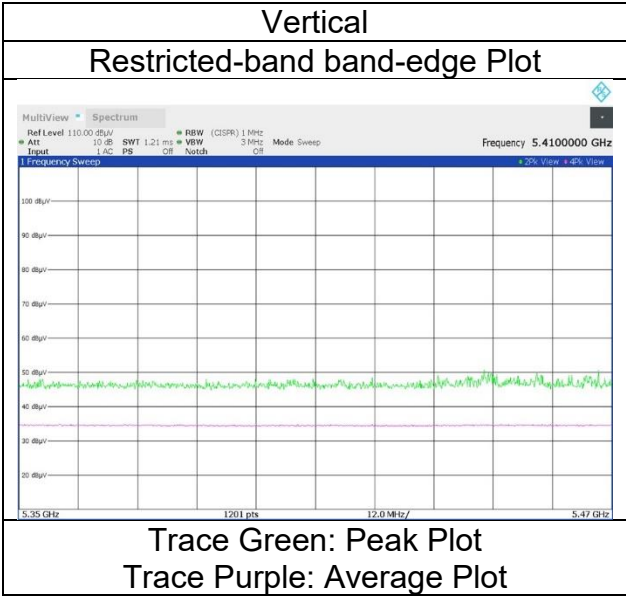
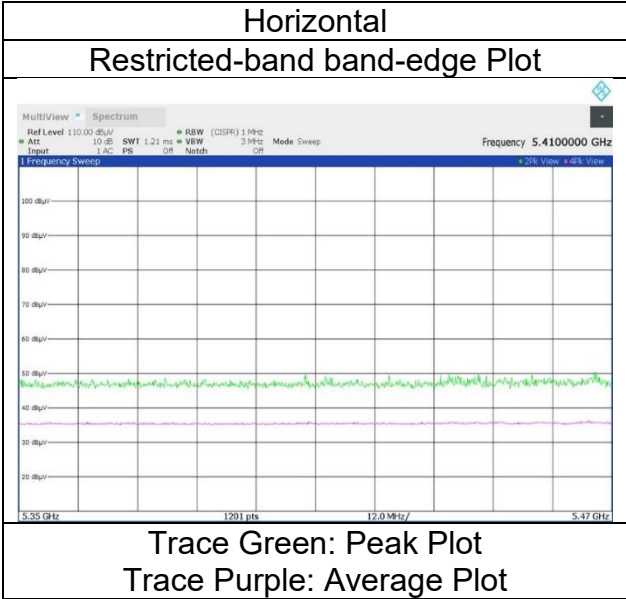
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 26-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 0



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 26-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.59	32.01	-25.06	-	2.10	55.64	-39.59	-27.0	12.5	136	336	-
Vert.	5725.000	PK	48.88	32.01	-25.06	-	2.10	57.93	-37.30	-27.0	10.3	185	354	-

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

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

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

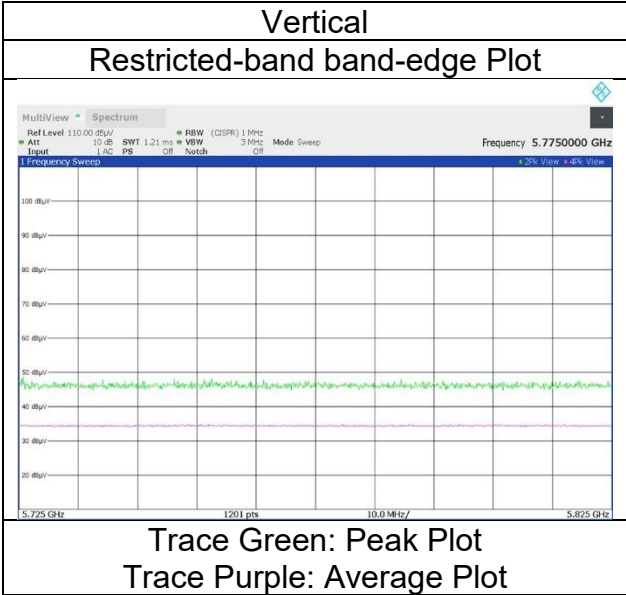
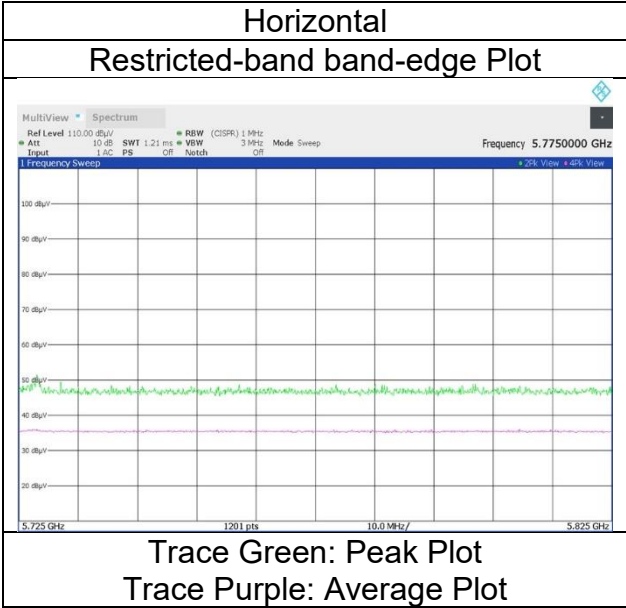
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 26-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 36



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 52-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	46.22	31.86	-25.53	-	2.10	54.65	73.9	19.2	238	338	-
Hori.	5150.000	AV	35.31	31.86	-25.53	-	2.10	43.74	53.9	10.1	238	338	VBW:2 kHz
Vert.	5150.000	PK	46.94	31.86	-25.53	-	2.10	55.37	73.9	18.5	121	339	-
Vert.	5150.000	AV	35.48	31.86	-25.53	-	2.10	43.91	53.9	9.9	121	339	VBW:2 kHz

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

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

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

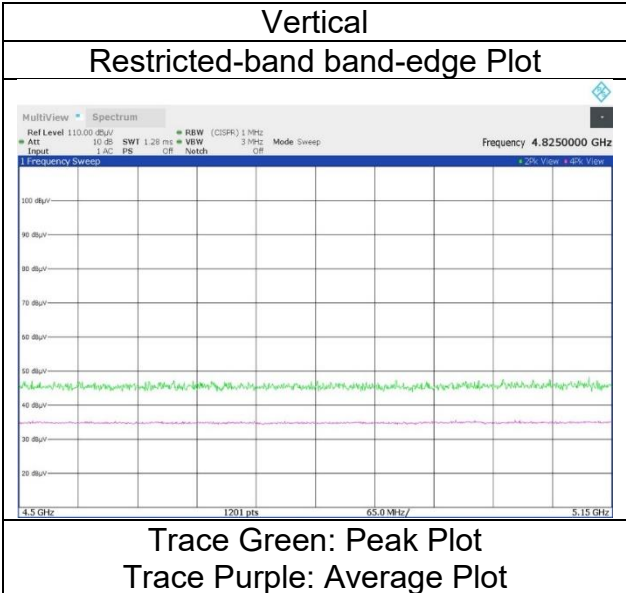
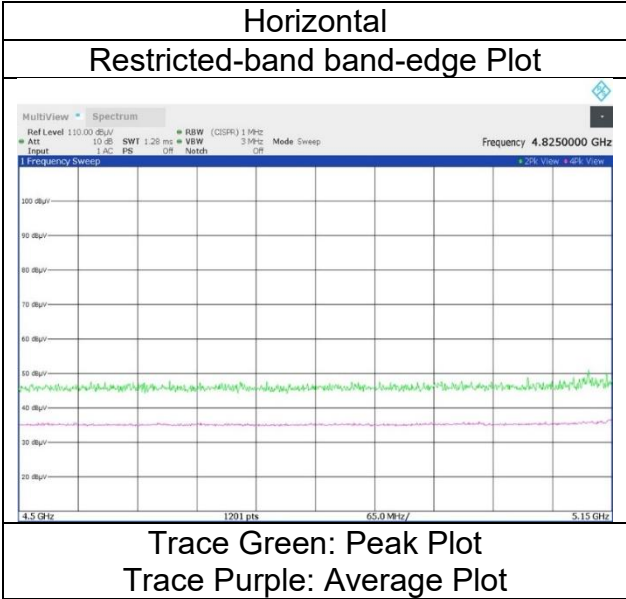
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 52-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 37



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 52-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 52
(above 1 GHz Inside of the restricted band)

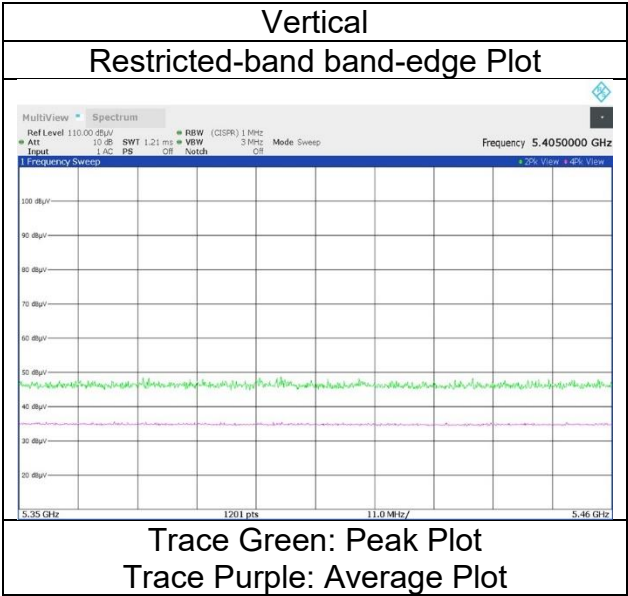
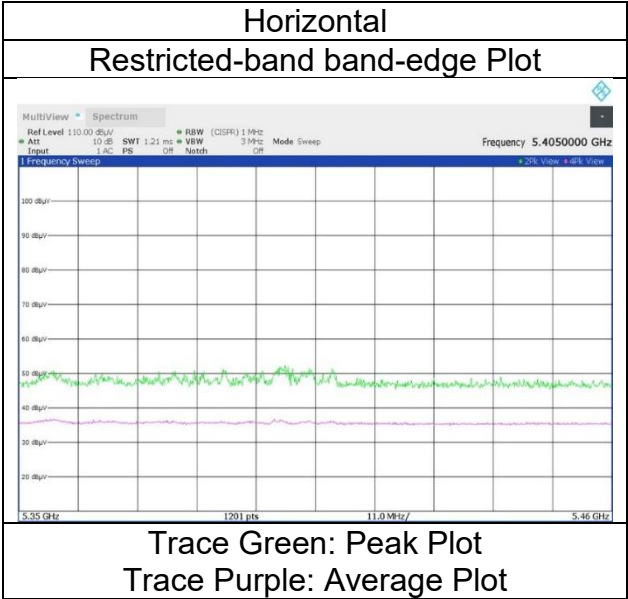
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	46.72	31.58	-25.29	-	2.10	55.11	73.9	18.7	130	337	-
Hori.	5350.000	AV	34.98	31.58	-25.29	-	2.10	43.37	53.9	10.5	130	337	VBW:2 kHz
Vert.	5350.000	PK	46.45	31.58	-25.29	-	2.10	54.84	73.9	19.0	150	355	-
Vert.	5350.000	AV	35.01	31.58	-25.29	-	2.10	43.40	53.9	10.5	150	355	VBW:2 kHz

1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 52-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 52



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 52-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	46.73	31.78	-25.16	-	2.10	55.45	73.9	18.4	151	327	-
Hori.	5460.000	AV	35.16	31.78	-25.16	-	2.10	43.88	53.9	10.0	151	327	VBW:2 kHz
Vert.	5435.580	PK	51.38	31.76	-25.20	-	2.10	60.04	73.9	13.8	155	338	-
Vert.	5460.000	PK	46.76	31.78	-25.16	-	2.10	55.48	73.9	18.4	155	338	-
Vert.	5435.580	AV	35.46	31.76	-25.20	-	2.10	44.12	53.9	9.7	155	338	VBW:2 kHz
Vert.	5460.000	AV	34.77	31.78	-25.16	-	2.10	43.49	53.9	10.4	155	338	VBW:2 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.07	31.79	-25.15	-	2.10	55.81	-39.42	-27.0	12.4	151	327	-
Vert.	5470.000	PK	46.67	31.79	-25.15	-	2.10	55.41	-39.82	-27.0	12.8	155	338	-

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

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

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

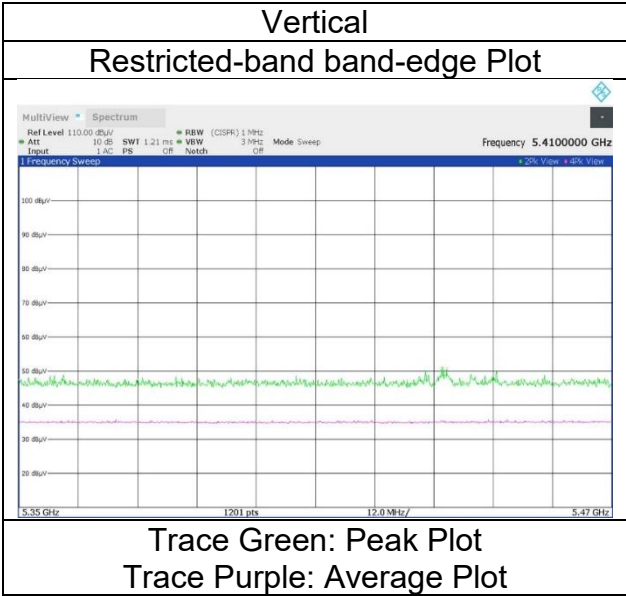
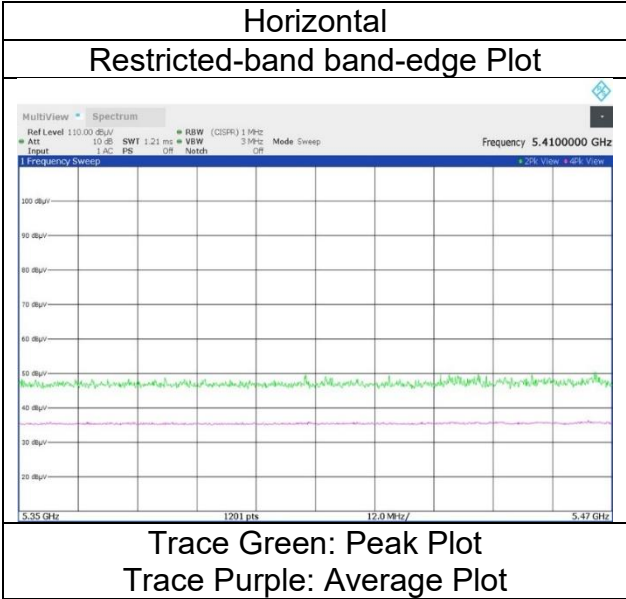
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 52-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / index 37



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 52-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.45	32.01	-25.06	-	2.10	56.50	-38.73	-27.0	11.7	202	339	-
Vert.	5725.000	PK	46.73	32.01	-25.06	-	2.10	55.78	-39.45	-27.0	12.4	150	356	-

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

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

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

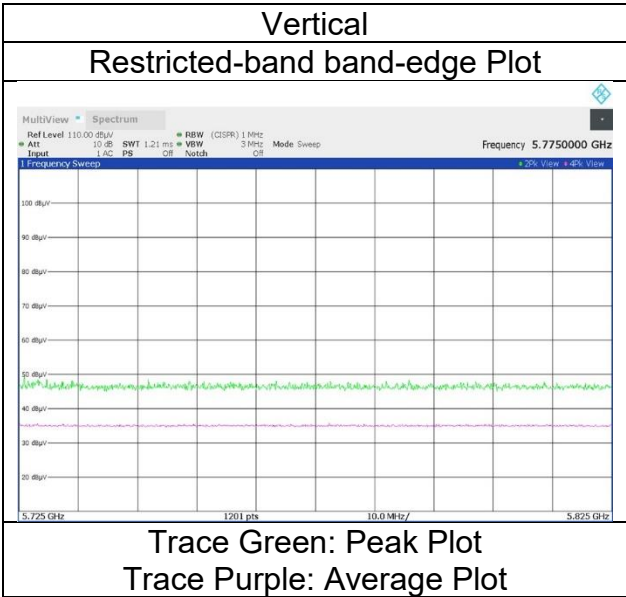
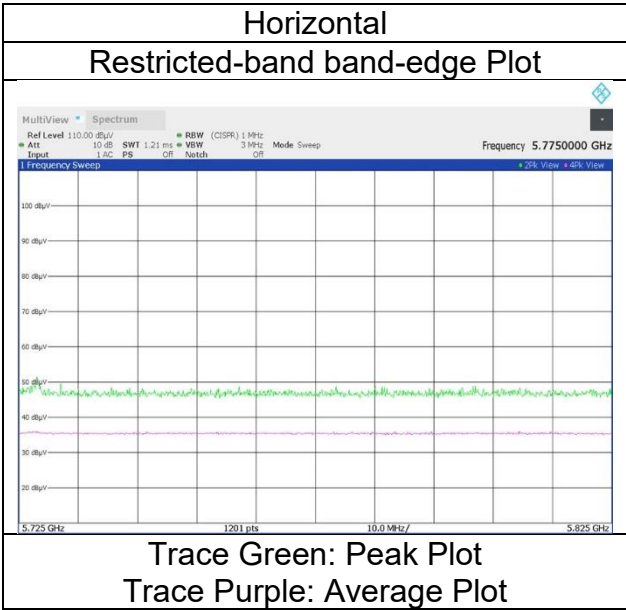
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 52-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / index 52



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 106-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	46.47	31.86	-25.53	-	2.10	54.90	73.9	19.0	169	337	-
Hori.	5150.000	AV	35.72	31.86	-25.53	-	2.10	44.15	53.9	9.7	169	337	VBW:3 kHz
Vert.	5150.000	PK	47.16	31.86	-25.53	-	2.10	55.59	73.9	18.3	152	350	-
Vert.	5150.000	AV	35.36	31.86	-25.53	-	2.10	43.79	53.9	10.1	152	350	VBW:3 kHz

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

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

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

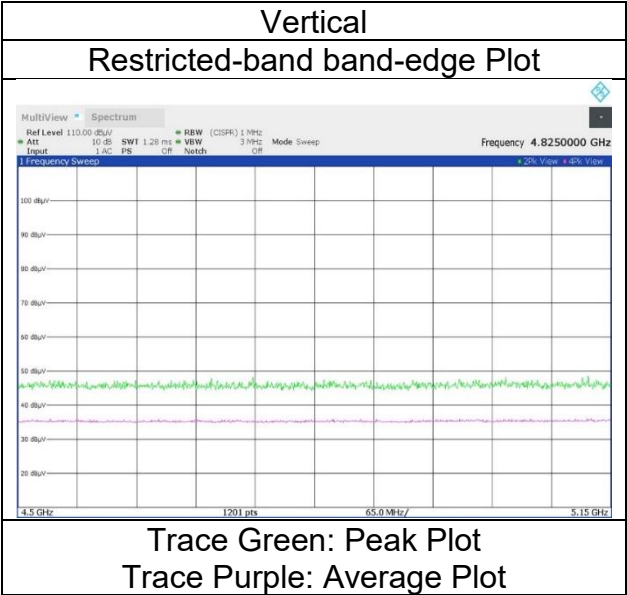
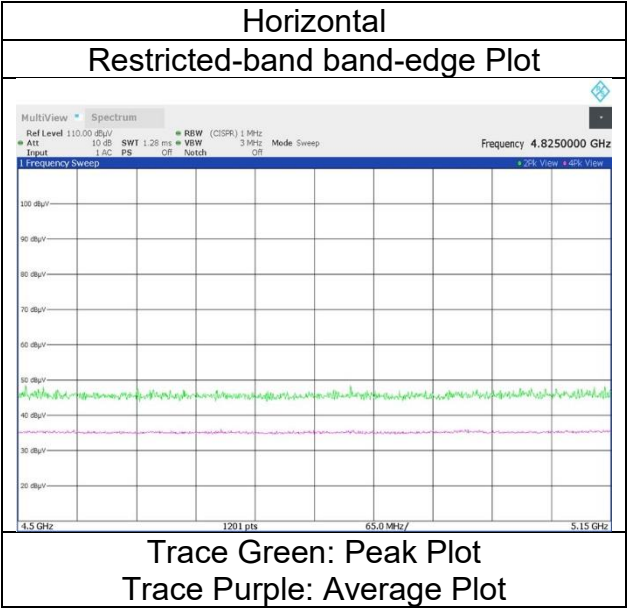
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 106-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 index 53



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 106-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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	46.74	31.58	-25.29	-	2.10	55.13	73.9	18.7	170	331	-
Hori.	5350.000	AV	35.35	31.58	-25.29	-	2.10	43.74	53.9	10.1	170	331	VBW:3 kHz
Vert.	5350.000	PK	47.19	31.58	-25.29	-	2.10	55.58	73.9	18.3	156	342	-
Vert.	5356.091	PK	49.70	31.59	-25.29	-	2.10	58.10	73.9	15.8	156	342	-
Vert.	5365.433	PK	49.81	31.61	-25.27	-	2.10	58.25	73.9	15.6	156	342	-
Vert.	5375.783	PK	50.84	31.64	-25.26	-	2.10	59.32	73.9	14.5	156	342	-
Vert.	5385.491	PK	50.78	31.67	-25.25	-	2.10	59.30	73.9	14.6	156	342	-
Vert.	5350.000	AV	35.61	31.58	-25.29	-	2.10	44.00	53.9	9.9	156	342	VBW:3 kHz
Vert.	5356.091	AV	35.27	31.59	-25.29	-	2.10	43.67	53.9	10.2	156	342	VBW:3 kHz
Vert.	5365.433	AV	35.28	31.61	-25.27	-	2.10	43.72	53.9	10.1	156	342	VBW:3 kHz
Vert.	5375.783	AV	36.01	31.64	-25.26	-	2.10	44.49	53.9	9.4	156	342	VBW:3 kHz
Vert.	5385.491	AV	35.55	31.67	-25.25	-	2.10	44.07	53.9	9.8	156	342	VBW:3 kHz

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

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

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

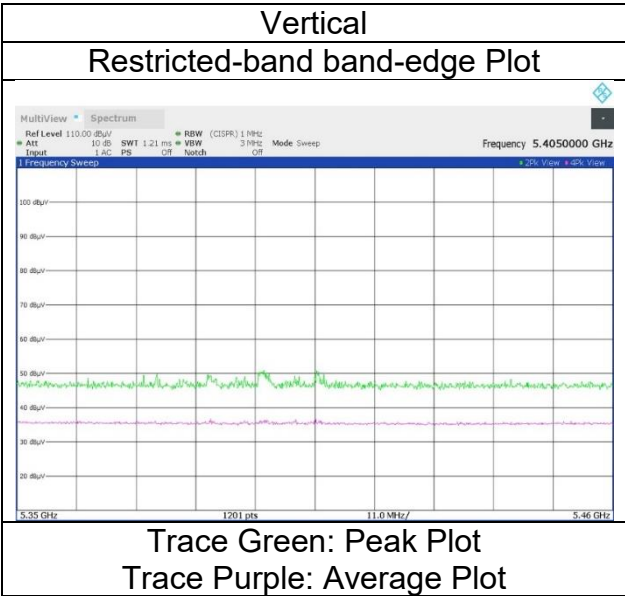
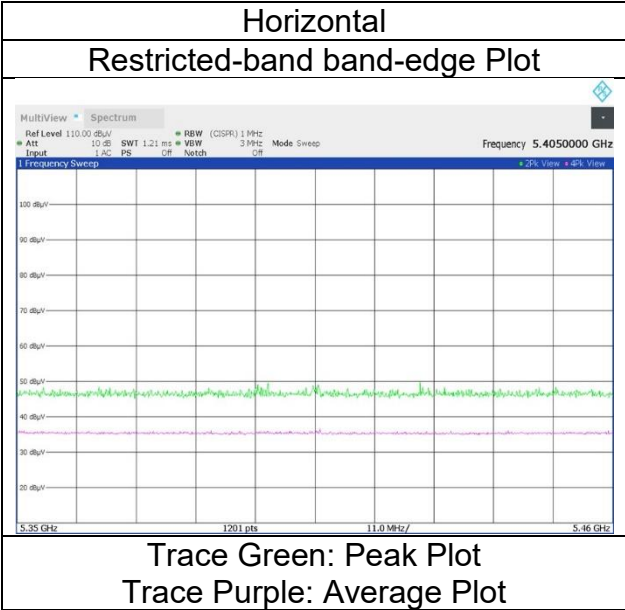
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 106-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / index 60



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
 (1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 106-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	47.04	31.78	-25.16	-	2.10	55.76	73.9	18.1	185	336	-
Hori.	5460.000	AV	35.54	31.78	-25.16	-	2.10	44.26	53.9	9.6	185	336	VBW:3 kHz
Vert.	5460.000	PK	46.76	31.78	-25.16	-	2.10	55.48	73.9	18.4	245	343	-
Vert.	5460.000	AV	35.07	31.78	-25.16	-	2.10	43.79	53.9	10.1	245	343	VBW:3 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.33	31.79	-25.15	-	2.10	55.07	-40.16	-27.0	13.1	185	336	-
Vert.	5470.000	PK	46.41	31.79	-25.15	-	2.10	55.15	-40.08	-27.0	13.0	245	343	-

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

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

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

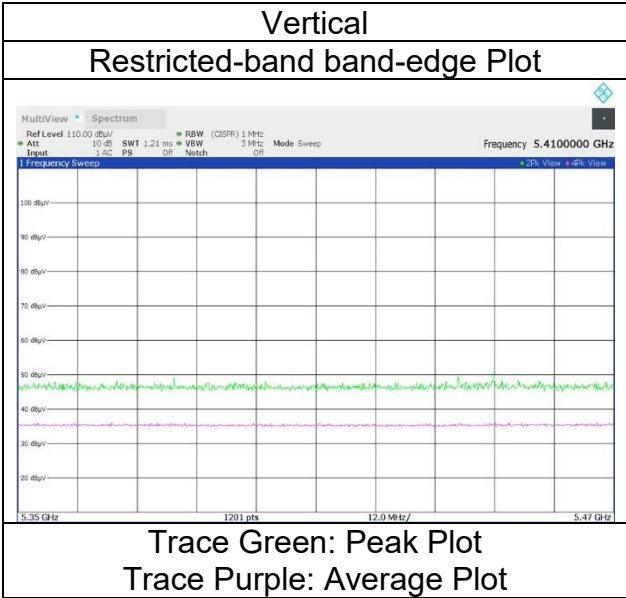
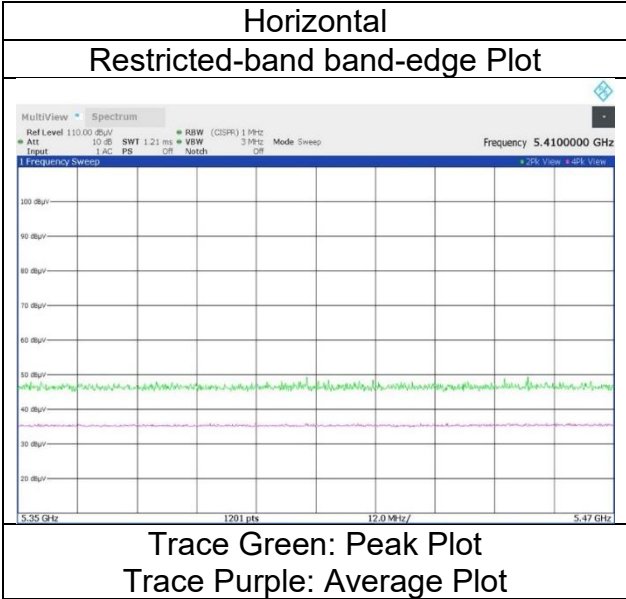
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 106-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 53



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 19, 2024
Temperature / Humidity 19 deg. C / 59 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 106-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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	46.08	32.01	-25.06	-	2.10	55.13	-40.10	-27.0	13.1	152	340	-
Vert.	5725.000	PK	46.52	32.01	-25.06	-	2.10	55.57	-39.66	-27.0	12.6	222	335	-

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

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

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

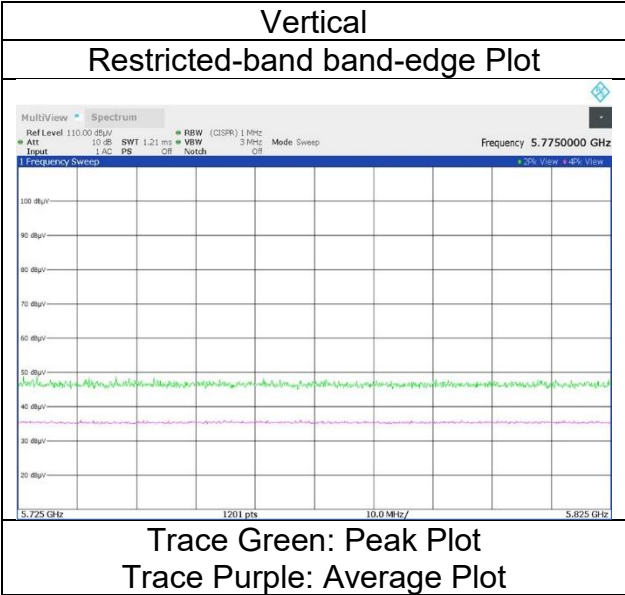
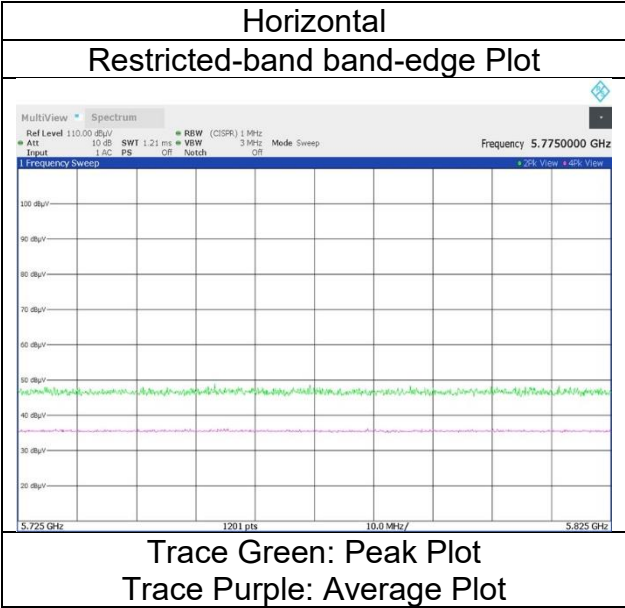
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 19, 2024
Temperature / Humidity	19 deg. C / 59 % RH
Engineer	Miku Ikudome
Mode	TX 11ax-160(OFDMA) 106-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / index 60



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 242-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	47.50	31.86	-25.53	-	2.10	55.93	73.9	17.9	173	40	-
Hori.	5150.000	AV	35.03	31.86	-25.53	-	2.10	43.46	53.9	10.4	173	40	VBW: 500 Hz
Vert.	5150.000	PK	48.02	31.86	-25.53	-	2.10	56.45	73.9	17.4	197	345	-
Vert.	5150.000	AV	34.88	31.86	-25.53	-	2.10	43.31	53.9	10.5	197	345	VBW: 500 Hz

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

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

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

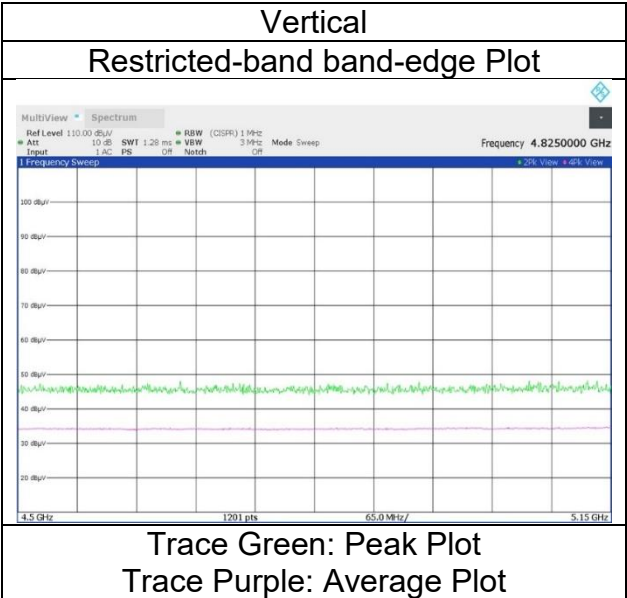
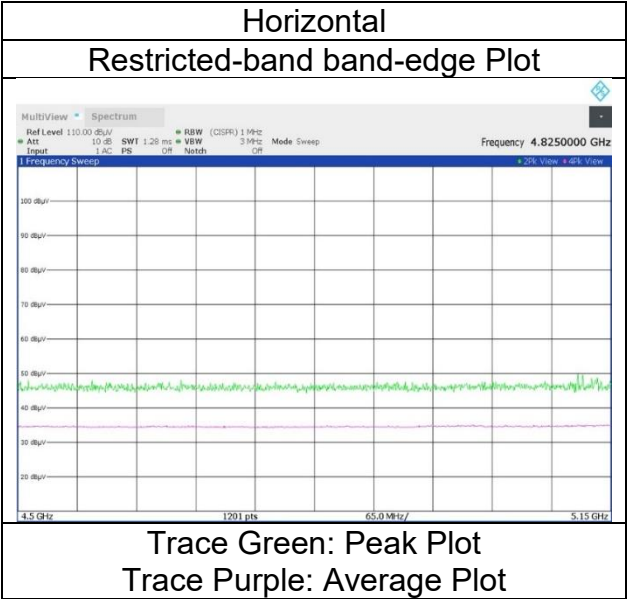
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 242-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 61



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 242-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / 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	46.64	31.58	-25.29	-	2.10	55.03	73.9	18.8	169	33	-
Hori.	5398.772	PK	50.99	31.70	-25.24	-	2.10	59.55	73.9	14.3	169	33	-
Hori.	5350.000	AV	34.85	31.58	-25.29	-	2.10	43.24	53.9	10.6	169	33	VBW: 500 Hz
Hori.	5398.772	AV	35.02	31.70	-25.24	-	2.10	43.58	53.9	10.3	169	33	VBW: 500 Hz
Vert.	5350.000	PK	47.58	31.58	-25.29	-	2.10	55.97	73.9	17.9	160	353	-
Vert.	5350.000	AV	35.03	31.58	-25.29	-	2.10	43.42	53.9	10.4	160	353	VBW: 500 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Vert.	5326.450	PK	50.64	31.54	-25.32	-	2.10	58.96	-36.27	-27.0	9.2	160	353	-

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

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

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

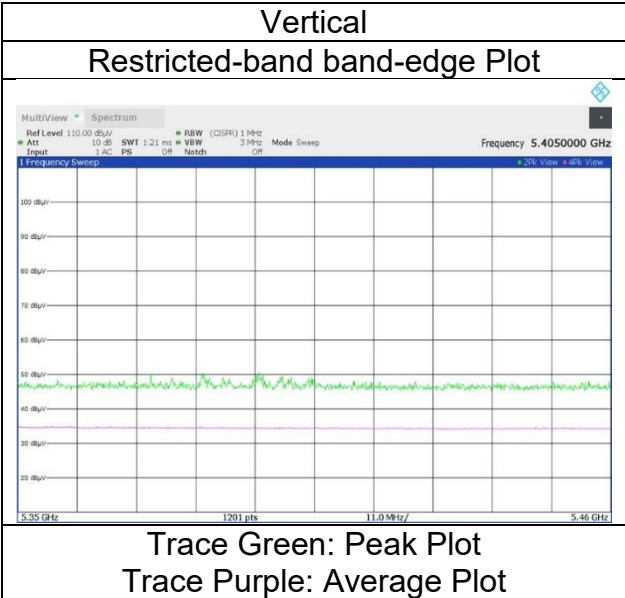
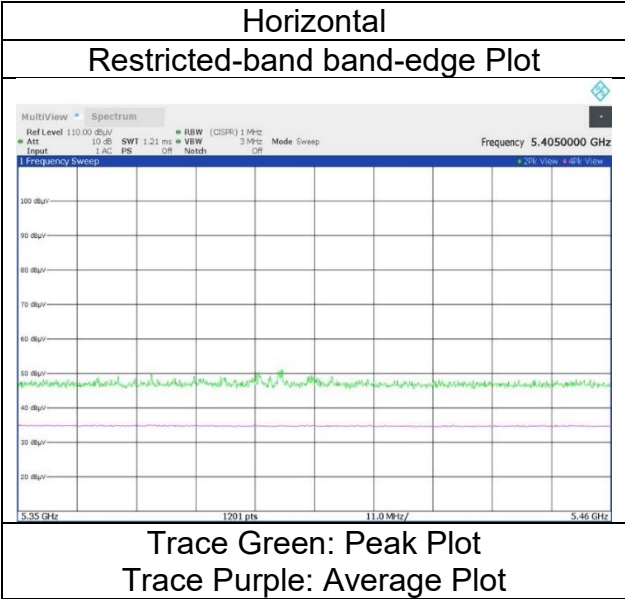
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 242-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 64



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
	(1 GHz to 6.4 GHz)
Mode	TX 11ax-160(OFDMA) 242-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	46.48	31.78	-25.16	-	2.10	55.20	73.9	18.7	198	37	-
Hori.	5460.000	AV	34.91	31.78	-25.16	-	2.10	43.63	53.9	10.2	198	37	VBW: 500 Hz
Vert.	5460.000	PK	47.61	31.78	-25.16	-	2.10	56.33	73.9	17.5	196	333	-
Vert.	5460.000	AV	34.22	31.78	-25.16	-	2.10	42.94	53.9	10.9	196	333	VBW: 500 Hz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	47.18	31.79	-25.15	-	2.10	55.92	-39.31	-27.0	12.3	198	37	-
Vert.	5470.000	PK	46.98	31.79	-25.15	-	2.10	55.72	-39.51	-27.0	12.5	196	333	-

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

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

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

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

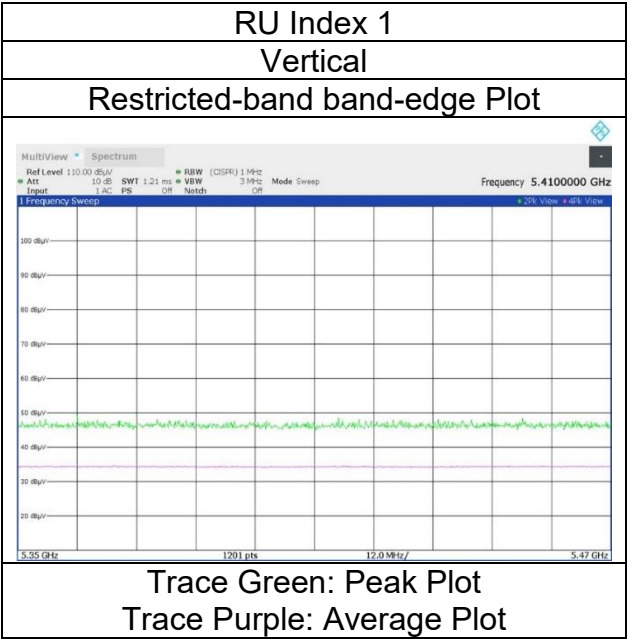
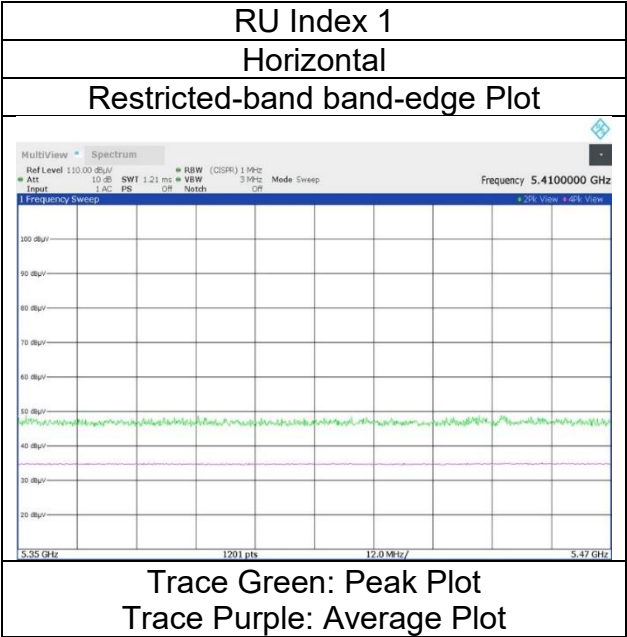
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 25, 2024
21 deg. C / 65 % RH
Hiromasa Sato
TX 11ax-160(OFDMA) 242-tone 5570 MHz
5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / Index 61



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 242-tone 5570 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 64
(Calculation) (above 1 GHz Outside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.23	32.01	-25.06	-	2.10	56.28	-38.95	-27.0	11.9	183	36	-
Vert.	5725.000	PK	47.54	32.01	-25.06	-	2.10	56.59	-38.64	-27.0	11.6	151	358	-

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

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

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

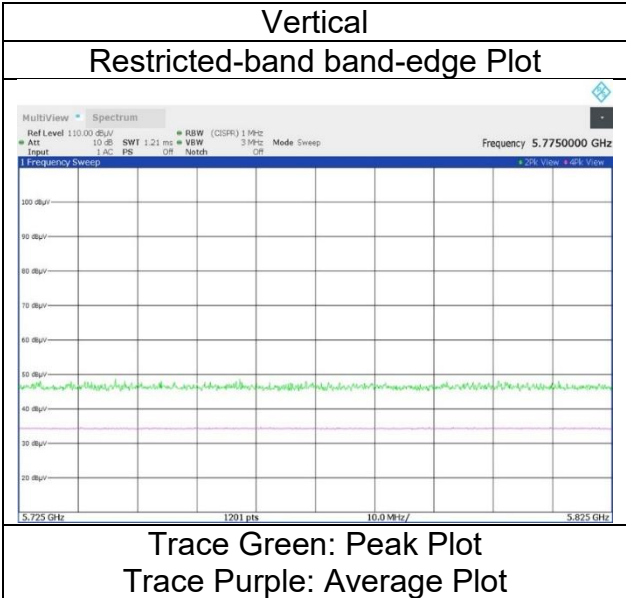
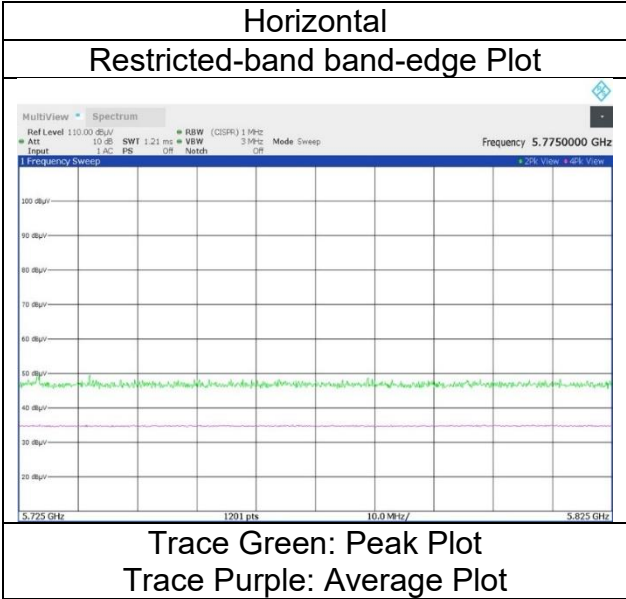
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 242-tone 5570 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / index 64



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
(1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 484-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / 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	48.72	31.86	-25.53	-	2.10	57.15	73.9	16.7	149	37	-
Hori.	5150.000	AV	35.83	31.86	-25.53	-	2.10	44.26	53.9	9.6	149	37	VBW: 1 kHz
Vert.	5150.000	PK	48.31	31.86	-25.53	-	2.10	56.74	73.9	17.1	148	339	-
Vert.	5150.000	AV	35.75	31.86	-25.53	-	2.10	44.18	53.9	9.7	148	339	VBW: 1 kHz

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

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

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

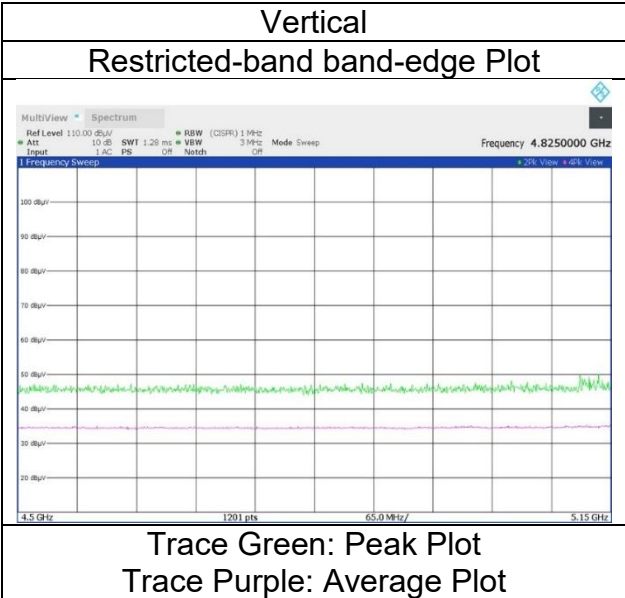
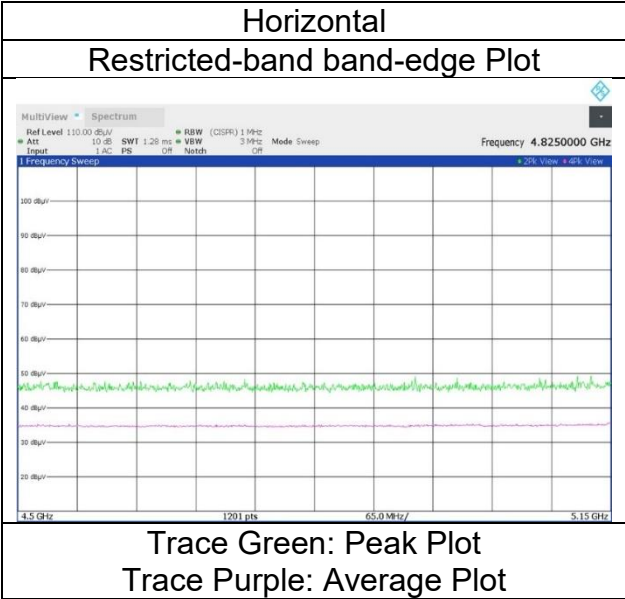
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 484-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 0 / index 65



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date April 25, 2024
Temperature / Humidity 21 deg. C / 65 % RH
Engineer Hiromasa Sato
 (1 GHz to 6.4 GHz)
Mode TX 11ax-160(OFDMA) 484-tone 5250 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 66
(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.13	31.58	-25.29	-	2.10	55.52	73.9	18.3	149	39	-
Hori.	5398.680	PK	51.45	31.70	-25.24	-	2.10	60.01	73.9	13.8	149	39	-
Hori.	5350.000	AV	35.30	31.58	-25.29	-	2.10	43.69	53.9	10.2	149	39	VBW: 1 kHz
Hori.	5398.680	AV	35.53	31.70	-25.24	-	2.10	44.09	53.9	9.8	149	39	VBW: 1 kHz
Vert.	5350.000	PK	48.58	31.58	-25.29	-	2.10	56.97	73.9	16.9	150	347	-
Vert.	5350.000	AV	35.33	31.58	-25.29	-	2.10	43.72	53.9	10.1	150	347	VBW: 1 kHz

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

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

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

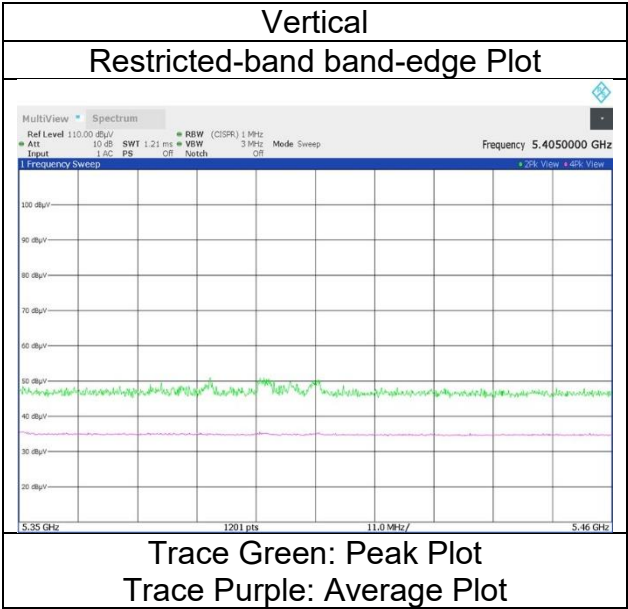
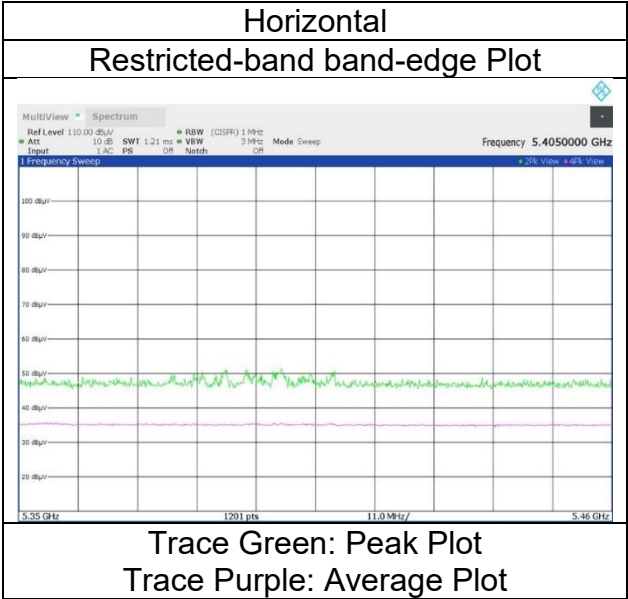
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	April 25, 2024
Temperature / Humidity	21 deg. C / 65 % RH
Engineer	Hiromasa Sato
Mode	TX 11ax-160(OFDMA) 484-tone 5250 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Segment 1 / Index 66



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

Radiated Spurious Emission

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

Segment 0 / 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	46.19	31.78	-25.16	-	2.10	54.91	73.9	18.9	139	37	-
Hori.	5460.000	AV	34.95	31.78	-25.16	-	2.10	43.67	53.9	10.2	139	37	VBW: 1 kHz
Vert.	5460.000	PK	47.08	31.78	-25.16	-	2.10	55.80	73.9	18.1	148	37	-
Vert.	5460.000	AV	34.99	31.78	-25.16	-	2.10	43.71	53.9	10.1	148	37	VBW: 1 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.84	31.79	-25.15	-	2.10	55.58	-39.65	-27.0	12.6	139	37	-
Vert.	5470.000	PK	46.94	31.79	-25.15	-	2.10	55.68	-39.55	-27.0	12.5	148	37	-

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

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

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

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

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