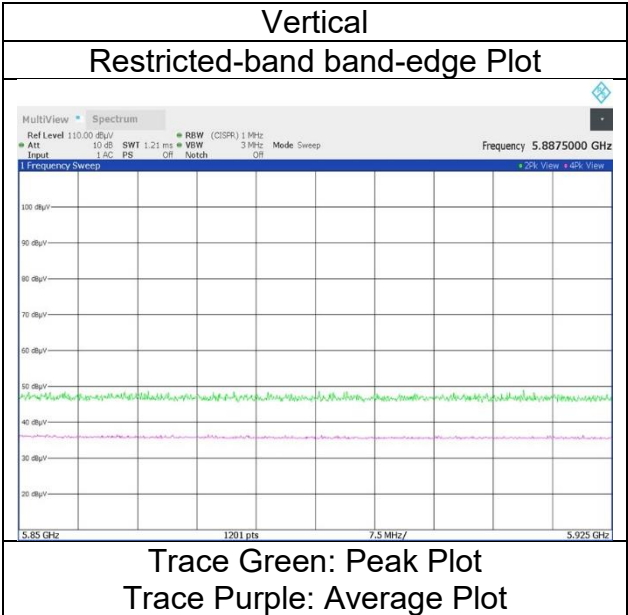
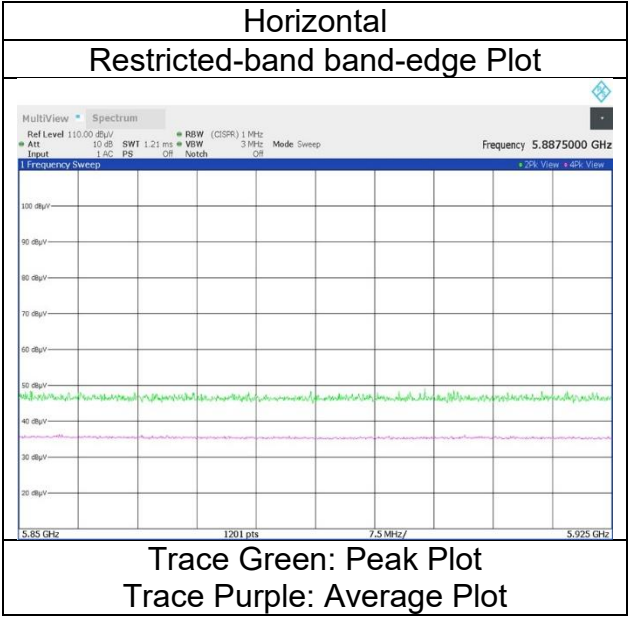


Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 17, 2024
21 deg. C / 58 % RH
Kenichi Adachi
Tx 11ax-20(OFDMA) 106-tone 5825 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 23, 2024
Temperature / Humidity 20 deg. C / 61 % RH
Engineer Takayuki Kobayashi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-20(OFDMA) 242-tone 5180 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	47.04	31.86	-25.53	-	2.10	55.47	73.9	18.4	143	35	-
Hori.	5150.000	AV	35.38	31.86	-25.53	-	2.10	43.81	53.9	10.0	143	35	VBW:2 kHz
Vert.	5150.000	PK	47.45	31.86	-25.53	-	2.10	55.88	73.9	18.0	139	344	-
Vert.	5150.000	AV	35.59	31.86	-25.53	-	2.10	44.02	53.9	9.8	139	344	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

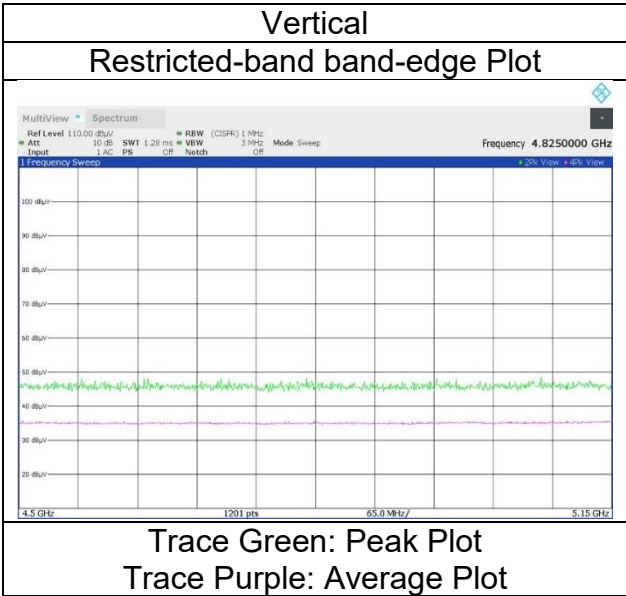
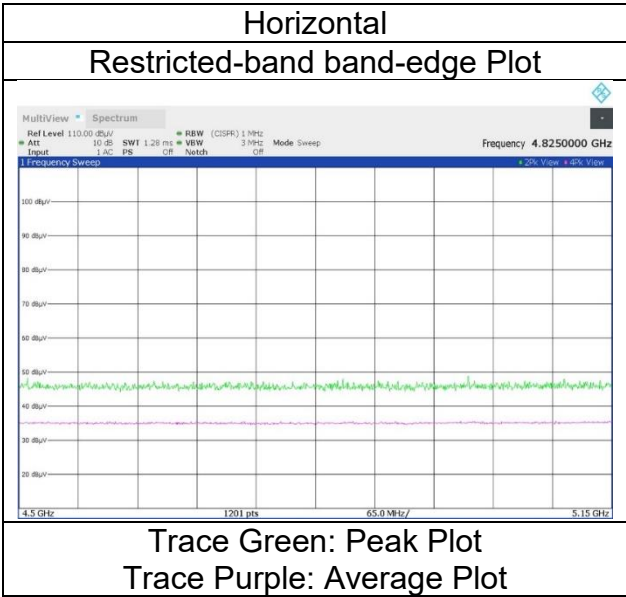
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 23, 2024
20 deg. C / 61 % RH
Takayuki Kobayashi
Tx 11ax-20(OFDMA) 242-tone 5180 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-20(OFDMA) 242-tone 5320 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.	5350.000	PK	47.15	31.58	-25.29	-	2.10	55.54	73.9	18.3	202	35	-
Hori.	5350.000	AV	35.12	31.58	-25.29	-	2.10	43.51	53.9	10.3	202	35	VBW:2 kHz
Vert.	5350.000	PK	48.41	31.58	-25.29	-	2.10	56.80	73.9	17.1	160	346	-
Vert.	5350.000	AV	35.81	31.58	-25.29	-	2.10	44.20	53.9	9.7	160	346	VBW:2 kHz

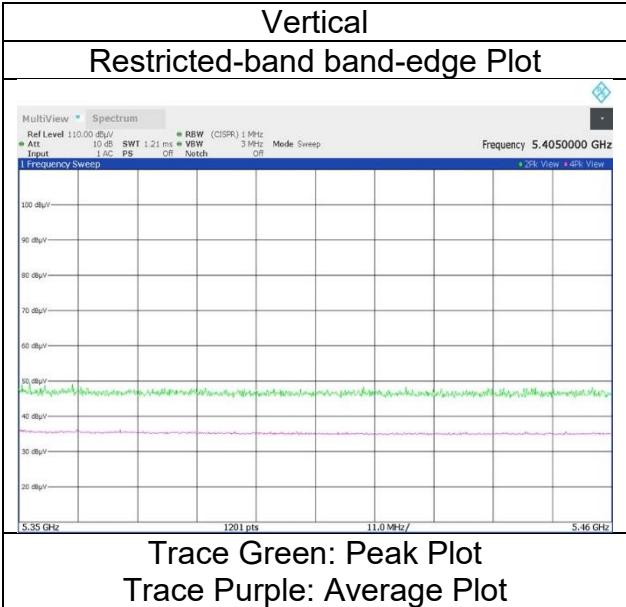
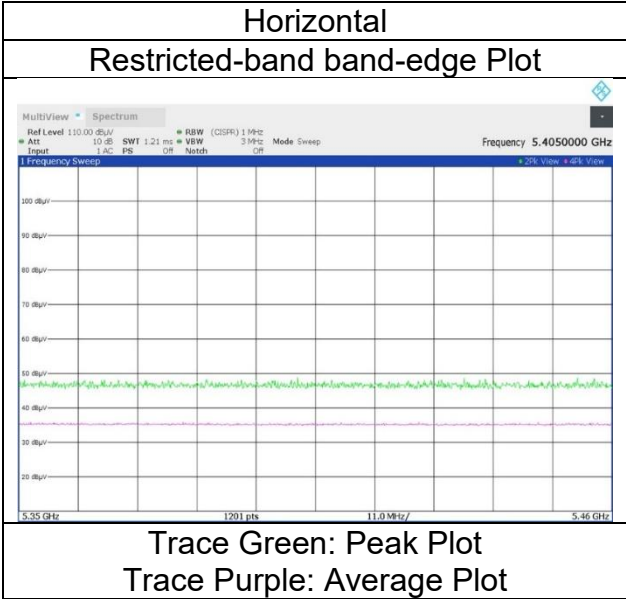
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this 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
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-20(OFDMA) 242-tone 5320 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-20(OFDMA) 242-tone 5500 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	47.19	31.78	-25.16	-	2.10	55.91	73.9	17.9	224	36	-
Hori.	5460.000	AV	35.28	31.78	-25.16	-	2.10	44.00	53.9	9.8	224	36	VBW:2 kHz
Vert.	5460.000	PK	47.25	31.78	-25.16	-	2.10	55.97	73.9	17.9	165	348	-
Vert.	5460.000	AV	35.21	31.78	-25.16	-	2.10	43.93	53.9	9.9	165	348	VBW:2 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.52	31.79	-25.15	-	2.10	55.26	-39.97	-27.0	12.9	224	36	-
Vert.	5470.000	PK	46.90	31.79	-25.15	-	2.10	55.64	-39.59	-27.0	12.5	165	348	-

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

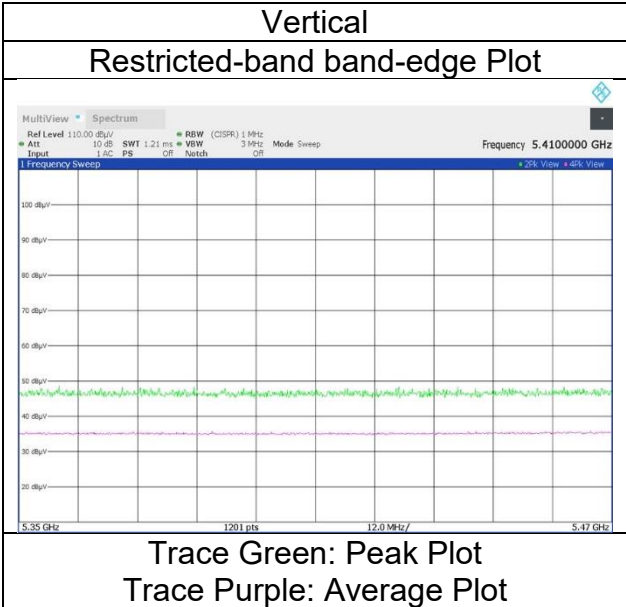
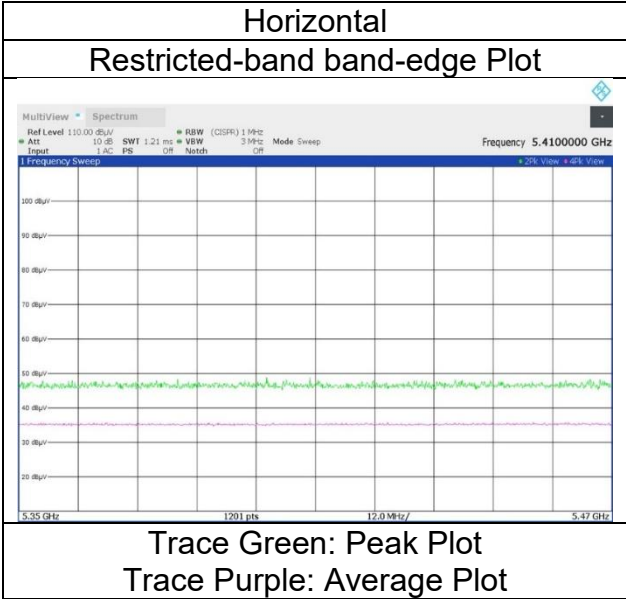
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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-20(OFDMA) 242-tone 5500 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-20(OFDMA) 242-tone 5700 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.86	32.01	-25.06	-	2.10	55.91	-39.32	-27.0	12.3	229	35	-
Vert.	5725.000	PK	47.68	32.01	-25.06	-	2.10	56.73	-38.50	-27.0	11.5	188	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 : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

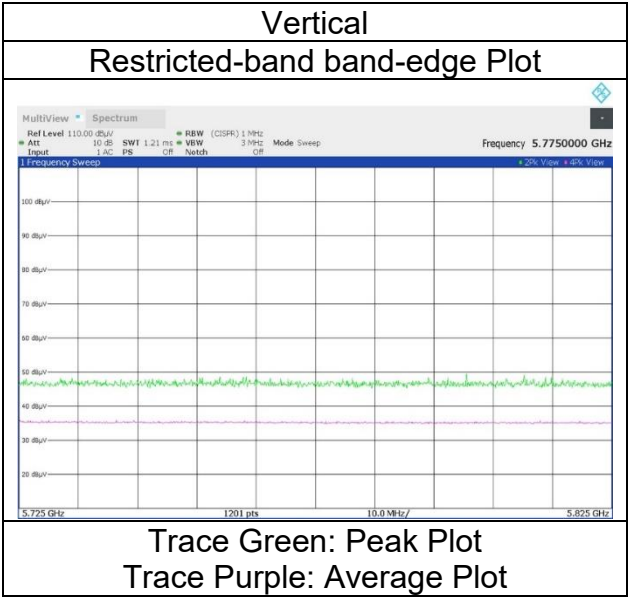
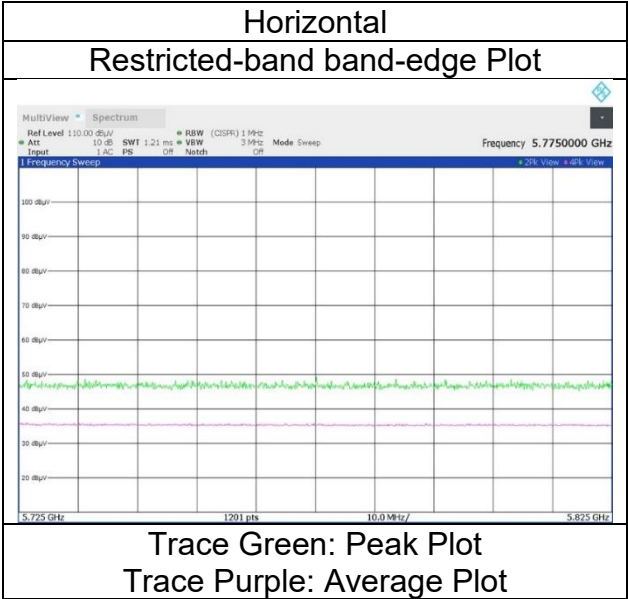
Radiated Spurious Emission

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
(1 GHz to 6.4 GHz)
Tx 11ax-20(OFDMA) 242-tone 5700 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-20(OFDMA) 242-tone 5745 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	46.50	31.84	-25.07	-	2.10	55.37	-39.86	-27.0	12.8	188	36	-
Hori.	5700.000	PK	47.01	31.95	-25.06	-	2.10	56.00	-39.23	10.0	49.2	188	36	-
Hori.	5715.000	PK	47.18	31.98	-25.06	-	2.10	56.20	-39.03	14.2	53.2	188	36	-
Hori.	5720.000	PK	46.71	31.99	-25.05	-	2.10	55.75	-39.48	15.6	55.0	188	36	-
Hori.	5725.000	PK	47.18	32.01	-25.06	-	2.10	56.23	-39.00	27.0	66.0	188	36	-
Vert.	5650.000	PK	46.41	31.84	-25.07	-	2.10	55.28	-39.95	-27.0	12.9	134	339	-
Vert.	5700.000	PK	47.58	31.95	-25.06	-	2.10	56.57	-38.66	10.0	48.6	134	339	-
Vert.	5715.000	PK	47.10	31.98	-25.06	-	2.10	56.12	-39.11	14.2	53.3	134	339	-
Vert.	5720.000	PK	47.27	31.99	-25.05	-	2.10	56.31	-38.92	15.6	54.5	134	339	-
Vert.	5725.000	PK	47.09	32.01	-25.06	-	2.10	56.14	-39.09	27.0	66.0	134	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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

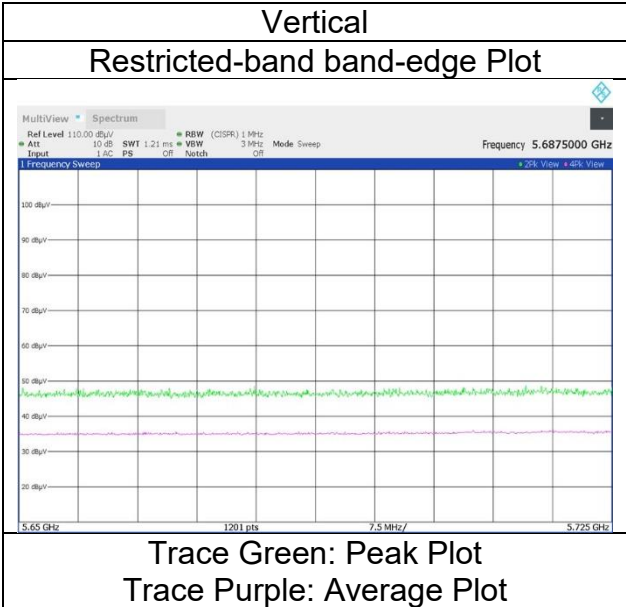
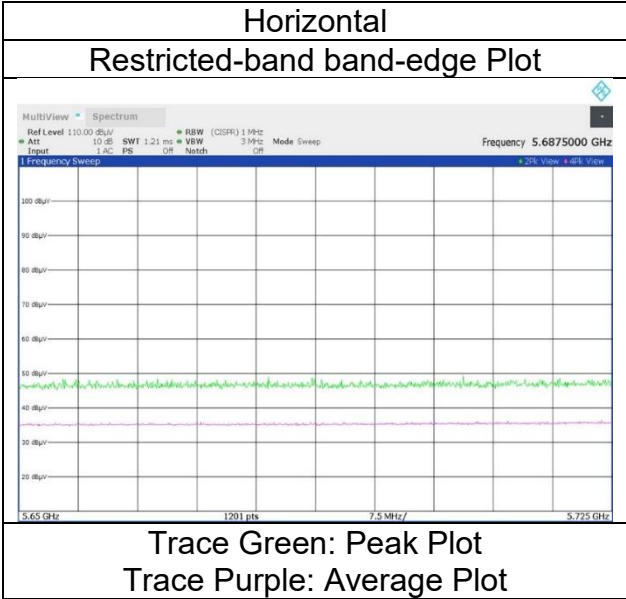
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-20(OFDMA) 242-tone 5745 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-20(OFDMA) 242-tone 5825 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.32	32.33	-25.01	-	2.10	56.74	-38.49	27.0	65.4	257	33	-
Hori.	5855.000	PK	47.26	32.34	-25.00	-	2.10	56.70	-38.53	15.6	54.1	257	33	-
Hori.	5860.000	PK	46.44	32.35	-25.01	-	2.10	55.88	-39.35	14.2	53.5	257	33	-
Hori.	5875.000	PK	46.21	32.38	-25.00	-	2.10	55.69	-39.54	10.0	49.5	257	33	-
Hori.	5925.000	PK	46.42	32.46	-24.99	-	2.10	55.99	-39.24	-27.0	12.2	257	33	-
Vert.	5850.000	PK	47.34	32.33	-25.01	-	2.10	56.76	-38.47	27.0	65.4	138	344	-
Vert.	5855.000	PK	48.09	32.34	-25.00	-	2.10	57.53	-37.70	15.6	53.3	138	344	-
Vert.	5860.000	PK	46.84	32.35	-25.01	-	2.10	56.28	-38.95	14.2	53.1	138	344	-
Vert.	5875.000	PK	47.39	32.38	-25.00	-	2.10	56.87	-38.36	10.0	48.3	138	344	-
Vert.	5925.000	PK	46.41	32.46	-24.99	-	2.10	55.98	-39.25	-27.0	12.2	138	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).

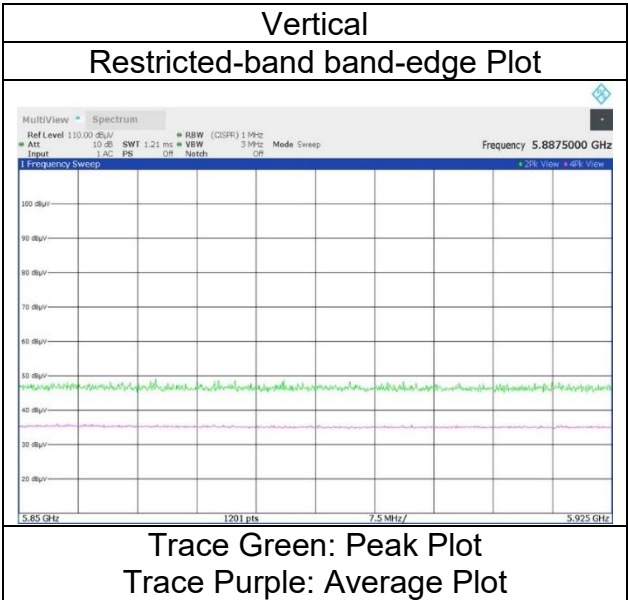
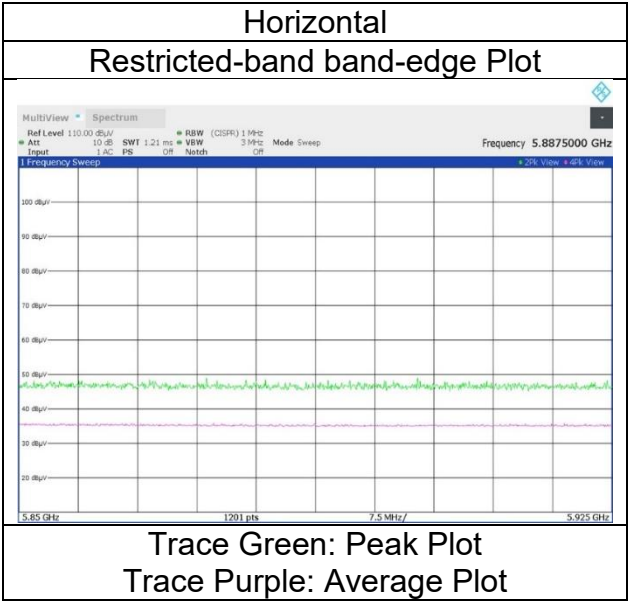
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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
Index 61

Shonan EMC Lab.
WAC1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-20(OFDMA) 242-tone 5825 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Yosuke Murakami (10 GHz to 18 GHz)	Hiromasa Sato (18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5190 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	45.94	32.23	17.20	38.73	2.10	58.74	73.9	15.1	156	38	-
Hori.	15570.000	PK	47.01	39.49	11.65	40.53	-9.54	48.08	73.9	25.8	150	0	-
Hori.	5150.000	AV	33.42	32.23	17.20	38.73	2.10	46.22	53.9	7.6	156	38	VBW:200 Hz
Hori.	15570.000	AV	35.11	39.49	11.65	40.53	-9.54	36.18	53.9	17.7	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	45.27	32.23	17.20	38.73	2.10	58.07	73.9	15.8	218	348	-
Vert.	15570.000	PK	46.92	39.49	11.65	40.53	-9.54	47.99	73.9	25.9	150	0	-
Vert.	5150.000	AV	33.29	32.23	17.20	38.73	2.10	46.09	53.9	7.8	218	348	VBW:200 Hz
Vert.	15570.000	AV	35.22	39.49	11.65	40.53	-9.54	36.29	53.9	17.6	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 : 20log (3.82 m / 3.0 m) = 2.10 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6919.967	PK	52.67	35.22	-33.55	-	2.10	56.44	-38.79	-27.0	11.7	186	56	-
Hori.	10380.000	PK	54.12	36.36	9.38	42.84	-9.54	47.48	-47.75	-27.0	20.7	203	206	-
Vert.	6919.936	PK	51.82	35.22	-33.35	-	2.10	55.79	-39.44	-27.0	12.4	159	177	-
Vert.	10380.000	PK	54.30	36.36	9.38	42.84	-9.54	47.66	-47.57	-27.0	20.5	209	246	-

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

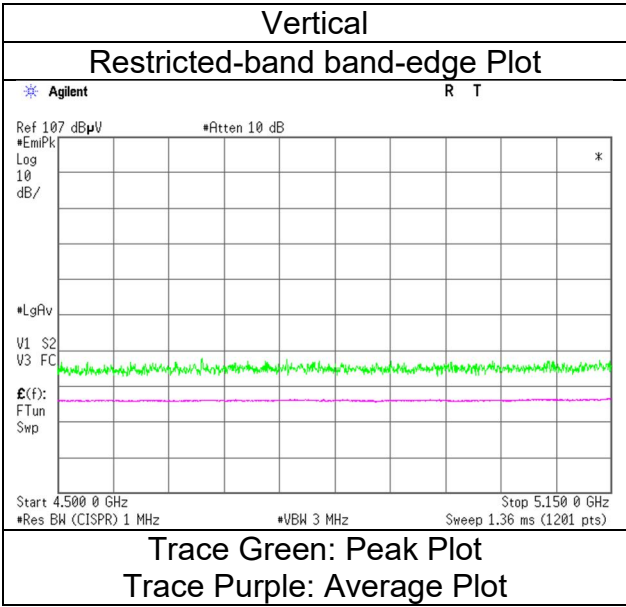
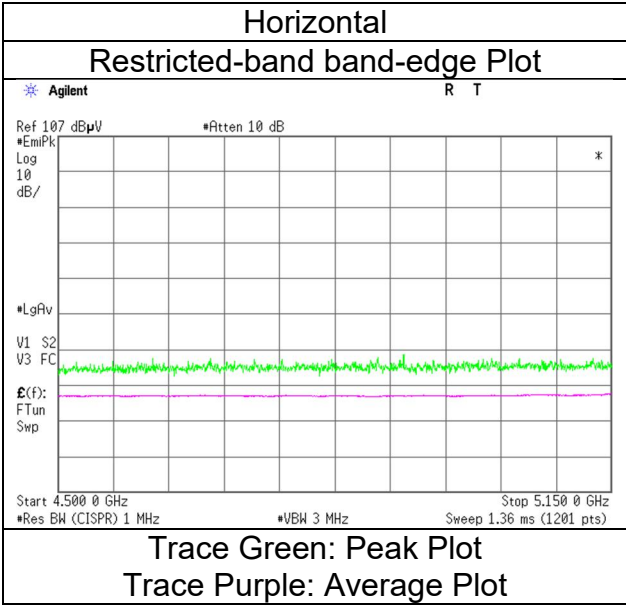
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 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	SAC 2
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-40 5190 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Yosuke Murakami (10 GHz to 18 GHz)	Hiromasa Sato (18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5230 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.	15690.000	PK	46.75	39.59	11.61	40.55	-9.54	47.86	73.9	26.0	150	0	-
Hori.	15690.000	AV	34.89	39.59	11.61	40.55	-9.54	36.00	53.9	17.9	150	0	VBW:200 Hz, Floor noise
Vert.	15690.000	PK	46.87	39.59	11.61	40.55	-9.54	47.98	73.9	25.9	150	0	-
Vert.	15690.000	AV	34.92	39.59	11.61	40.55	-9.54	36.03	53.9	17.8	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.	6973.293	PK	52.67	35.53	-33.56	-	2.10	56.74	-38.49	-27.0	11.4	197	57	-
Hori.	10460.000	PK	52.66	36.48	9.40	42.84	-9.54	46.16	-49.07	-27.0	22.0	200	207	-
Vert.	6973.212	PK	53.24	35.53	-33.56	-	2.10	57.31	-37.92	-27.0	10.9	187	192	-
Vert.	10460.000	PK	51.84	36.48	9.40	42.84	-9.54	45.34	-49.89	-27.0	22.8	195	237	-

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	WAC 1	SAC 3	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)	Miku Ikudome (6.4 GHz to 10 GHz)	Yosuke Murakami (10 GHz to 18 GHz)	Hiromasa Sato (18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5310 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	46.87	31.95	17.34	38.83	2.10	59.43	73.9	14.4	114	29	-
Hori.	5357.476	PK	46.22	31.97	17.35	38.84	2.10	58.80	73.9	15.1	114	29	-
Hori.	10620.000	PK	48.71	37.05	9.45	42.85	-9.54	42.82	73.9	31.0	140	285	-
Hori.	15930.000	PK	46.18	40.05	11.53	40.60	-9.54	47.62	73.9	26.2	150	0	-
Hori.	5350.000	AV	34.56	31.95	17.34	38.83	2.10	47.12	53.9	6.7	114	29	VBW:200 Hz
Hori.	5357.476	AV	33.62	31.97	17.35	38.84	2.10	46.20	53.9	7.7	114	29	VBW:200 Hz
Hori.	10620.000	AV	37.27	37.05	9.45	42.85	-9.54	31.38	53.9	22.5	140	285	VBW:200 Hz
Hori.	15930.000	AV	33.88	40.05	11.53	40.60	-9.54	35.32	53.9	18.5	150	0	VBW:200 Hz, Floor noise
Vert.	5350.000	PK	45.72	31.95	17.34	38.83	2.10	58.28	73.9	15.6	117	336	-
Vert.	5354.875	PK	46.28	31.96	17.35	38.83	2.10	58.86	73.9	15.0	117	336	-
Vert.	10620.000	PK	51.00	37.05	9.45	42.85	-9.54	45.11	73.9	28.7	194	239	-
Vert.	15930.000	PK	46.30	40.05	11.53	40.60	-9.54	47.74	73.9	26.1	150	0	-
Vert.	5350.000	AV	33.32	31.95	17.34	38.83	2.10	45.88	53.9	8.0	117	336	VBW:200 Hz
Vert.	5354.875	AV	34.62	31.96	17.35	38.83	2.10	47.20	53.9	6.7	117	336	VBW:200 Hz
Vert.	10620.000	AV	38.30	37.05	9.45	42.85	-9.54	32.41	53.9	21.4	194	239	VBW:200 Hz
Vert.	15930.000	AV	33.87	40.05	11.53	40.60	-9.54	35.31	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 : 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.	7079.961	PK	53.19	36.03	-33.23	-	2.10	58.09	-37.14	-27.0	10.1	136	84	-
Vert.	7079.954	PK	54.14	36.03	-33.23	-	2.10	59.04	-36.19	-27.0	9.1	179	107	-

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

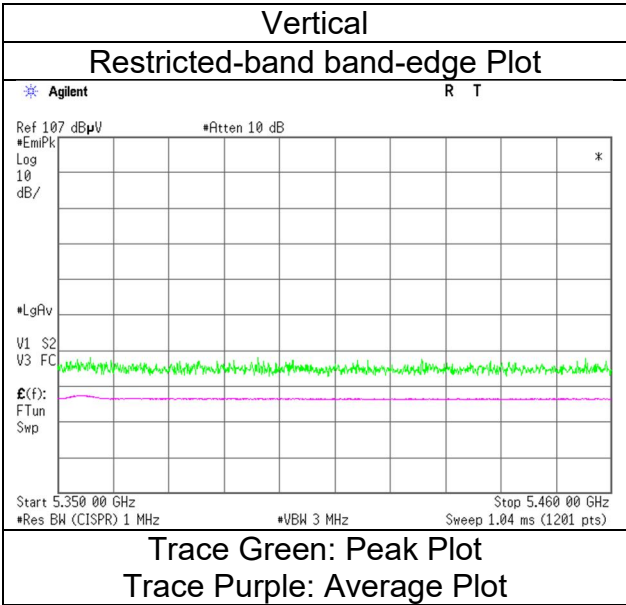
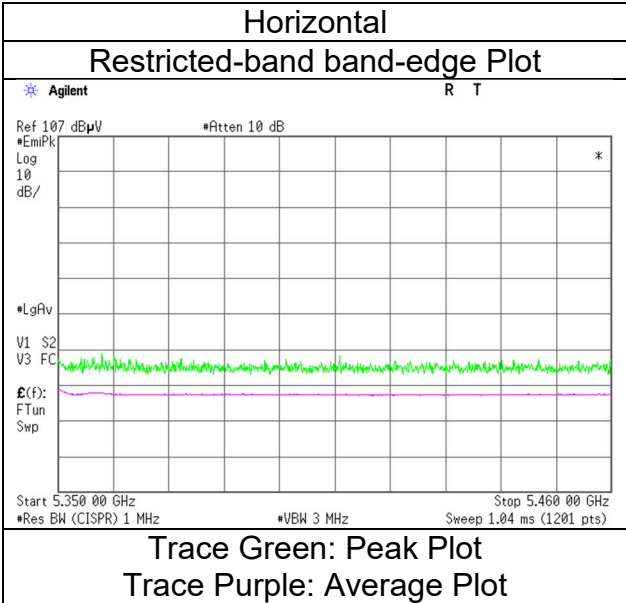
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 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	SAC 2
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-40 5310 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5510 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	45.36	32.14	17.43	38.89	2.10	58.14	73.9	15.7	131	33	-
Hori.	11020.000	PK	48.62	37.59	9.60	42.89	-9.54	43.38	73.9	30.5	204	217	-
Hori.	5460.000	AV	33.20	32.14	17.43	38.89	2.10	45.98	53.9	7.9	131	33	VBW:200 Hz
Hori.	11020.000	AV	36.22	37.59	9.60	42.89	-9.54	30.98	53.9	22.9	204	217	VBW:200 Hz
Vert.	5460.000	PK	45.43	32.14	17.43	38.89	2.10	58.21	73.9	15.6	140	339	-
Vert.	11020.000	PK	48.37	37.59	9.60	42.89	-9.54	43.13	73.9	30.7	210	230	-
Vert.	5460.000	AV	33.26	32.14	17.43	38.89	2.10	46.04	53.9	7.8	140	339	VBW:200 Hz
Vert.	11020.000	AV	36.04	37.59	9.60	42.89	-9.54	30.80	53.9	23.1	210	230	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	46.13	32.15	17.43	38.89	2.10	58.92	-36.31	-27.0	9.3	131	33	-
Hori.	6611.870	PK	49.11	34.31	-33.48	-	2.10	52.04	-43.19	-27.0	16.1	243	26	-
Hori.	16530.000	PK	46.52	40.11	12.30	40.64	-9.54	48.75	-46.48	-27.0	19.4	150	0	-
Vert.	5470.000	PK	47.00	32.15	17.43	38.89	2.10	59.79	-35.44	-27.0	8.4	140	339	-
Vert.	6611.977	PK	51.15	34.31	-33.48	-	2.10	54.08	-41.15	-27.0	14.1	199	195	-
Vert.	16530.000	PK	46.45	40.11	12.30	40.64	-9.54	48.68	-46.55	-27.0	19.5	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).

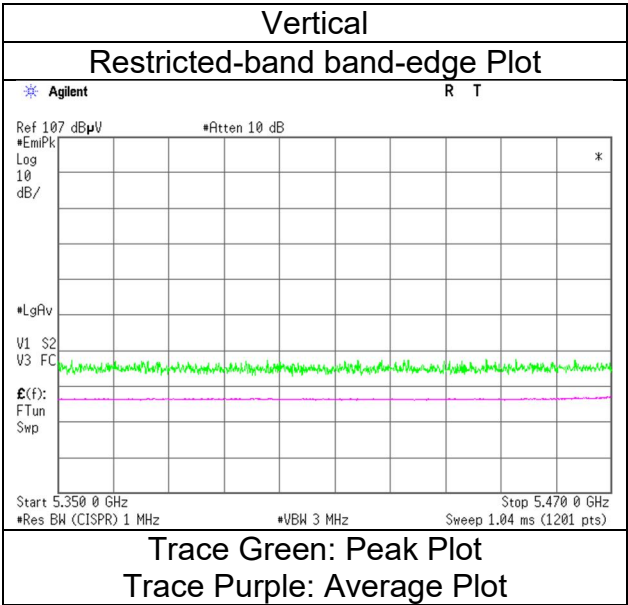
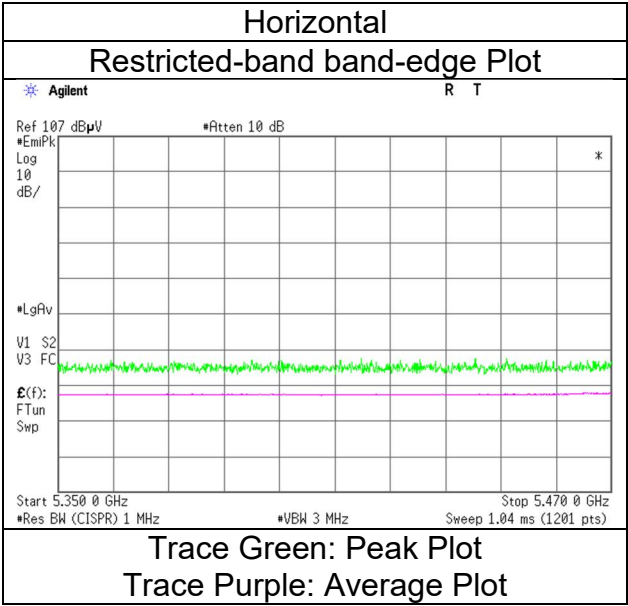
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11n-40 5510 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5550 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.	11100.000	PK	47.81	37.63	9.65	42.84	-9.54	42.71	73.9	31.1	189	260	-
Hori.	11100.000	AV	35.58	37.63	9.65	42.84	-9.54	30.48	53.9	23.4	189	260	VBW:200 Hz
Vert.	11100.000	PK	48.42	37.63	9.65	42.84	-9.54	43.32	73.9	30.5	180	252	-
Vert.	11100.000	AV	35.74	37.63	9.65	42.84	-9.54	30.64	53.9	23.2	180	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.	6660.000	PK	49.33	34.33	-33.50	-	2.10	52.26	-42.97	-27.0	15.9	163	117	-
Hori.	16650.000	PK	46.64	39.77	12.36	40.60	-9.54	48.63	-46.60	-27.0	19.6	150	0	-
Vert.	6659.908	PK	49.61	34.33	-33.37	-	2.10	52.67	-42.56	-27.0	15.5	152	195	-
Vert.	16650.000	PK	46.71	39.77	12.36	40.60	-9.54	48.70	-46.53	-27.0	19.5	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	WAC 1	SAC 3	WAC 1
Date	January 7, 2024	January 10, 2024	December 20, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Yosuke Murakami	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5670 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.	11340.000	PK	47.68	38.17	9.77	42.68	-9.54	43.40	73.9	30.5	194	261	-
Hori.	11340.000	AV	35.04	38.17	9.77	42.68	-9.54	30.76	53.9	23.1	194	261	VBW:200 Hz
Vert.	11340.000	PK	47.43	38.17	9.77	42.68	-9.54	43.15	73.9	30.7	195	279	-
Vert.	11340.000	AV	34.84	38.17	9.77	42.68	-9.54	30.56	53.9	23.3	195	279	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	44.99	32.57	17.61	38.95	2.10	58.32	-36.91	-27.0	9.9	129	42	-
Hori.	6804.004	PK	48.71	34.59	-33.53	-	2.10	51.87	-43.36	-27.0	16.3	146	92	-
Hori.	17010.000	PK	45.63	39.67	12.49	40.48	-9.54	47.77	-47.46	-27.0	20.4	150	0	-
Vert.	5725.000	PK	45.45	32.57	17.61	38.95	2.10	58.78	-36.45	-27.0	9.4	178	348	-
Vert.	6803.646	PK	48.92	34.58	-33.35	-	2.10	52.25	-42.98	-27.0	15.9	148	0	-
Vert.	17010.000	PK	45.87	39.67	12.49	40.48	-9.54	48.01	-47.22	-27.0	20.2	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).

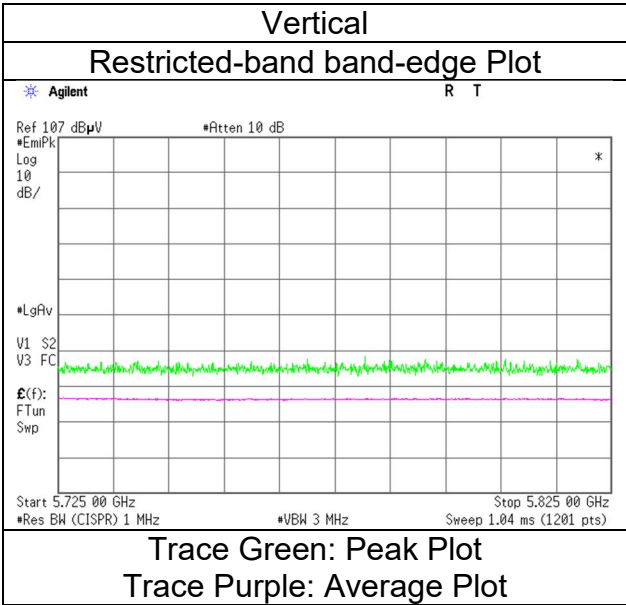
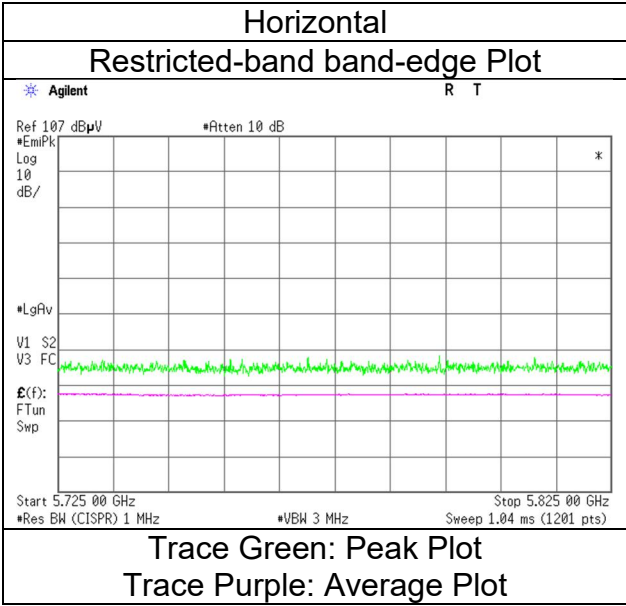
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11n-40 5670 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 21, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Hiromasa Sato	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5755 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.	11510.000	PK	48.97	38.33	9.86	42.58	-9.54	45.04	73.9	28.8	197	254	-
Hori.	11510.000	AV	35.89	38.33	9.86	42.58	-9.54	31.96	53.9	21.9	197	254	VBW:200 Hz
Vert.	11510.000	PK	48.79	38.33	9.86	42.58	-9.54	44.86	73.9	29.0	198	244	-
Vert.	11510.000	AV	36.04	38.33	9.86	42.58	-9.54	32.11	53.9	21.7	198	244	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	45.34	32.35	17.55	38.94	2.10	58.40	-36.83	-27.0	9.8	105	32	-
Hori.	5700.000	PK	45.47	32.48	17.59	38.95	2.10	58.69	-36.54	10.0	46.5	105	32	-
Hori.	5720.000	PK	47.19	32.55	17.60	38.95	2.10	60.49	-34.74	15.6	50.3	105	32	-
Hori.	5725.000	PK	47.15	32.57	17.61	38.95	2.10	60.48	-34.75	27.0	61.7	105	32	-
Hori.	6906.000	PK	48.63	35.13	-33.55	-	2.10	52.31	-42.92	-27.0	15.9	110	91	-
Hori.	17265.000	PK	46.73	40.10	12.53	40.32	-9.54	49.50	-45.73	-27.0	18.7	150	0	-
Vert.	5650.000	PK	45.90	32.35	17.55	38.94	2.10	58.96	-36.27	-27.0	9.2	164	346	-
Vert.	5700.000	PK	46.39	32.48	17.59	38.95	2.10	59.61	-35.62	10.0	45.6	164	346	-
Vert.	5720.000	PK	47.31	32.55	17.60	38.95	2.10	60.61	-34.62	15.6	50.2	164	346	-
Vert.	5725.000	PK	48.20	32.57	17.61	38.95	2.10	61.53	-33.70	27.0	60.7	164	346	-
Vert.	6906.000	PK	48.53	35.13	-33.55	-	2.10	52.21	-43.02	-27.0	16.0	135	101	-
Vert.	17265.000	PK	48.54	40.10	12.53	40.32	-9.54	51.31	-43.92	-27.0	16.9	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

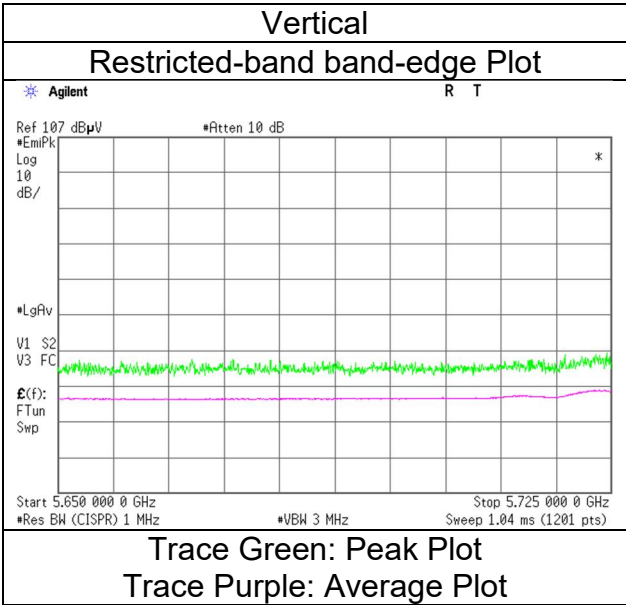
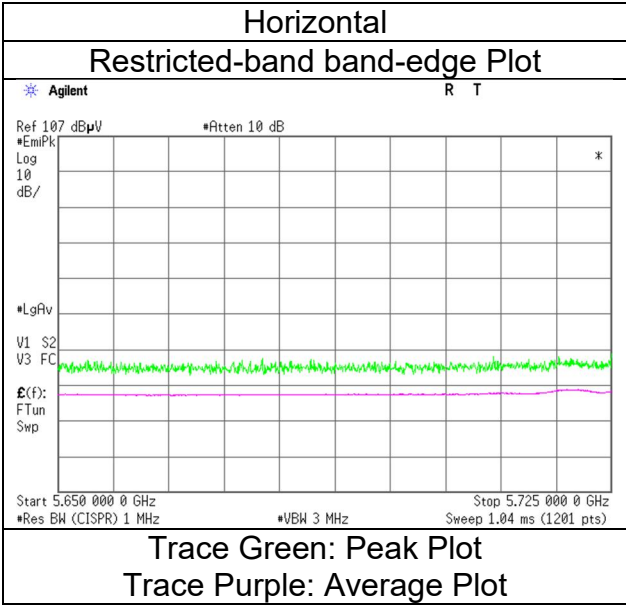
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
Mode	Tx 11n-40 5755 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	WAC 1
Date	January 7, 2024	January 10, 2024	December 21, 2023	January 17, 2024
Temperature / Humidity	23 deg. C / 35 % RH	20 deg. C / 35 % RH	21 deg. C / 26 % RH	24 deg. C / 31 % RH
Engineer	Makoto Hosaka	Miku Ikudome	Hiromasa Sato	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)
Mode	Tx 11n-40 5795 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.	11590.000	PK	49.92	38.33	9.91	42.54	-9.54	46.08	73.9	27.8	187	261	-
Hori.	11590.000	AV	37.30	38.33	9.91	42.54	-9.54	33.46	53.9	20.4	187	261	VBW:200 Hz
Vert.	11590.000	PK	49.13	38.33	9.91	42.54	-9.54	45.29	73.9	28.6	195	259	-
Vert.	11590.000	AV	36.62	38.33	9.91	42.54	-9.54	32.78	53.9	21.1	195	259	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.	5850.000	PK	46.10	32.90	17.71	38.97	2.10	59.84	-35.39	27.0	62.3	150	28	-
Hori.	5855.000	PK	44.98	32.91	17.71	38.97	2.10	58.73	-36.50	15.6	52.1	150	28	-
Hori.	5875.000	PK	45.06	32.96	17.73	38.98	2.10	58.87	-36.36	10.0	46.3	150	28	-
Hori.	5925.000	PK	45.10	33.04	17.76	38.99	2.10	59.01	-36.22	-27.0	9.2	150	28	-
Hori.	6954.000	PK	49.02	35.41	-33.34	-	2.10	53.19	-42.04	-27.0	15.0	156	92	-
Hori.	17385.000	PK	46.66	40.22	12.55	40.24	-9.54	49.65	-45.58	-27.0	18.5	150	0	-
Vert.	5850.000	PK	46.63	32.90	17.71	38.97	2.10	60.37	-34.86	27.0	61.8	153	348	-
Vert.	5855.000	PK	45.35	32.91	17.71	38.97	2.10	59.10	-36.13	15.6	51.7	153	348	-
Vert.	5875.000	PK	45.45	32.96	17.73	38.98	2.10	59.26	-35.97	10.0	45.9	153	348	-
Vert.	5925.000	PK	45.68	33.04	17.76	38.99	2.10	59.59	-35.64	-27.0	8.6	153	348	-
Vert.	6955.335	PK	49.09	35.42	-33.34	-	2.10	53.27	-41.96	-27.0	14.9	160	90	-
Vert.	17385.000	PK	45.95	40.22	12.55	40.24	-9.54	48.94	-46.29	-27.0	19.2	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).

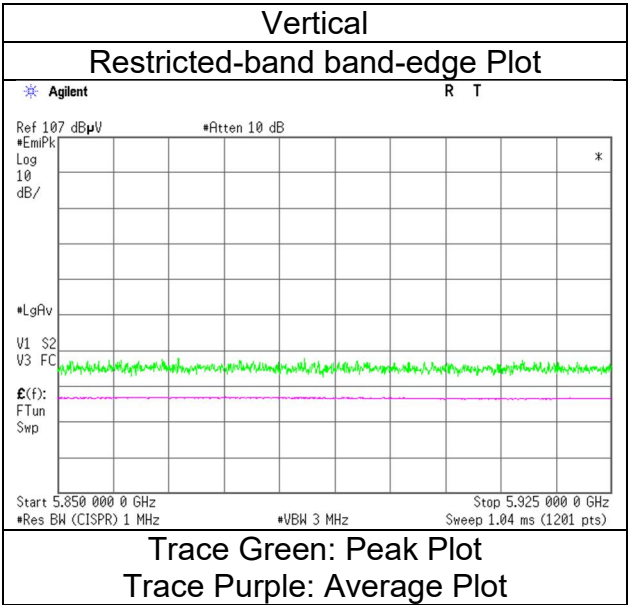
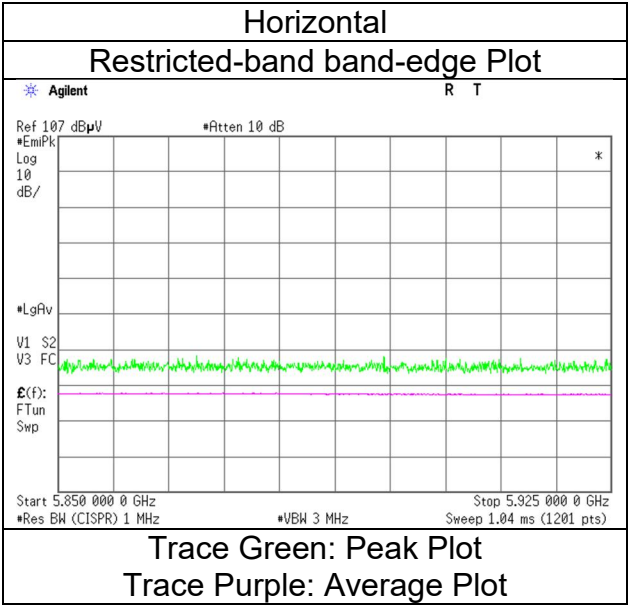
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11n-40 5795 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
Date January 7, 2024
Temperature / Humidity 23 deg. C / 35 % RH
Engineer Makoto Hosaka
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5190 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	45.97	32.23	17.20	38.73	2.10	58.77	73.9	15.1	107	39	-
Hori.	5150.000	AV	33.32	32.23	17.20	38.73	2.10	46.12	53.9	7.7	107	39	VBW:200 Hz
Vert.	5150.000	PK	45.97	32.23	17.20	38.73	2.10	58.77	73.9	15.1	248	348	-
Vert.	5150.000	AV	33.29	32.23	17.20	38.73	2.10	46.09	53.9	7.8	248	348	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).

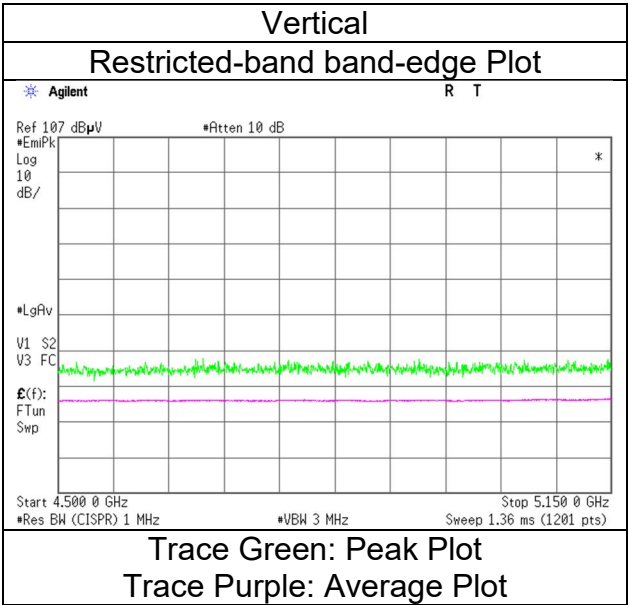
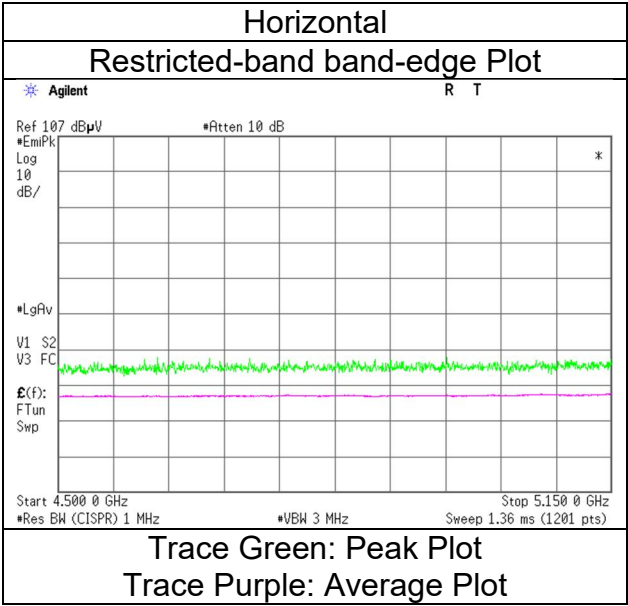
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11ac-40 5190 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
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5310 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	47.07	31.95	17.34	38.83	2.10	59.63	73.9	14.2	129	29	-
Hori.	5354.875	PK	45.82	31.96	17.35	38.83	2.10	58.40	73.9	15.5	129	29	-
Hori.	5350.000	AV	34.19	31.95	17.34	38.83	2.10	46.75	53.9	7.1	129	29	VBW:200 Hz
Hori.	5354.875	AV	33.39	31.96	17.35	38.83	2.10	45.97	53.9	7.9	129	29	VBW:200 Hz
Vert.	5350.000	PK	45.42	31.95	17.34	38.83	2.10	57.98	73.9	15.9	119	336	-
Vert.	5354.875	PK	45.45	31.96	17.35	38.83	2.10	58.03	73.9	15.8	119	336	-
Vert.	5350.000	AV	33.28	31.95	17.34	38.83	2.10	45.84	53.9	8.0	119	336	VBW:200 Hz
Vert.	5354.875	AV	34.51	31.96	17.35	38.83	2.10	47.09	53.9	6.8	119	336	VBW:200 Hz

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

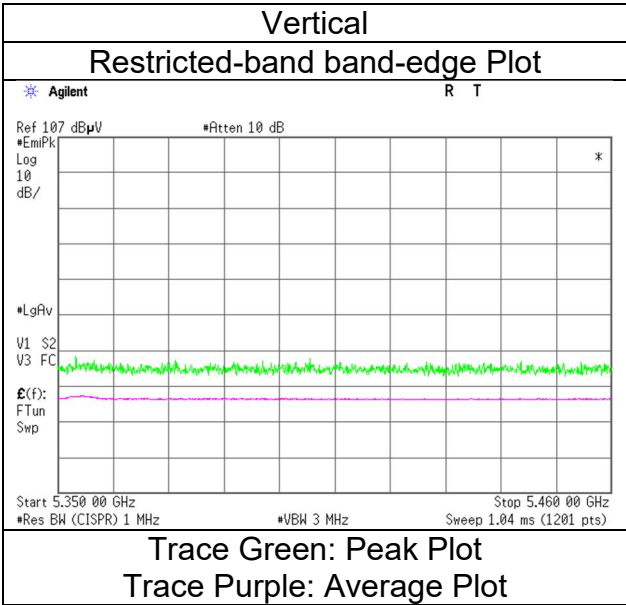
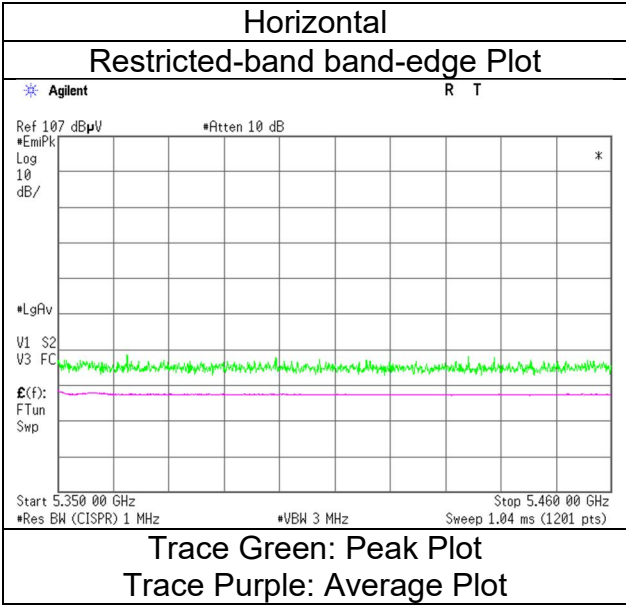
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 2
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
Mode	Tx 11ac-40 5310 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
Date January 7, 2024
Temperature / Humidity 23 deg. C / 35 % RH
Engineer Makoto Hosaka
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5510 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	45.59	32.14	17.43	38.89	2.10	58.37	73.9	15.5	117	33	-
Hori.	5460.000	AV	33.15	32.14	17.43	38.89	2.10	45.93	53.9	7.9	117	33	VBW:200 Hz
Vert.	5460.000	PK	45.39	32.14	17.43	38.89	2.10	58.17	73.9	15.7	141	338	-
Vert.	5460.000	AV	33.18	32.14	17.43	38.89	2.10	45.96	53.9	7.9	141	338	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)

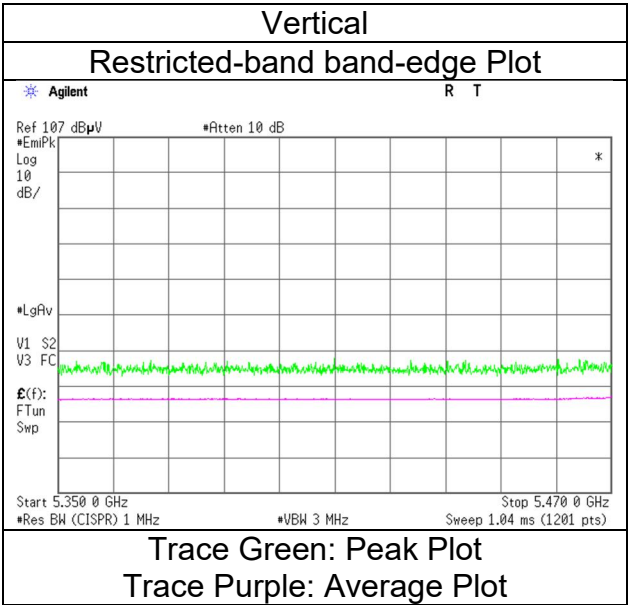
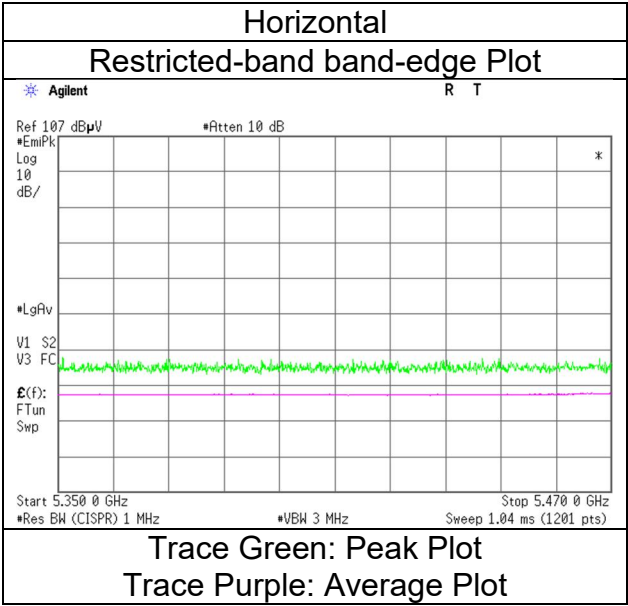
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	45.85	32.15	17.43	38.89	2.10	58.64	-36.59	-27.0	9.5	117	33	-
Vert.	5470.000	PK	46.14	32.15	17.43	38.89	2.10	58.93	-36.30	-27.0	9.3	141	338	-

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11ac-40 5510 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
Date January 7, 2024
Temperature / Humidity 23 deg. C / 35 % RH
Engineer Makoto Hosaka
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

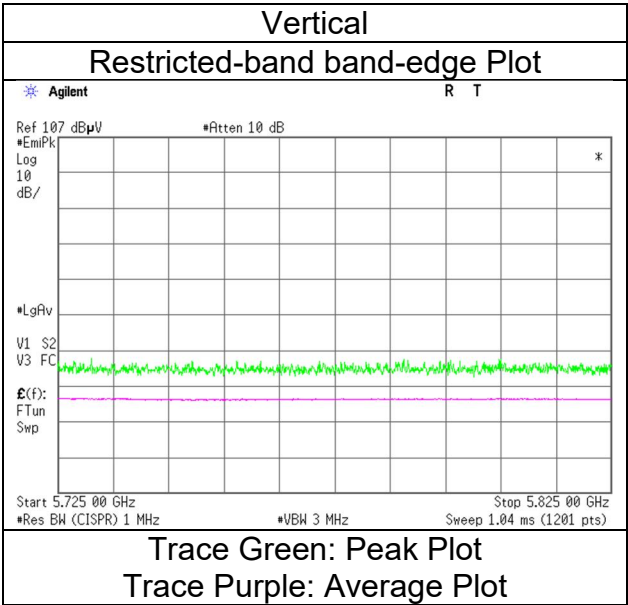
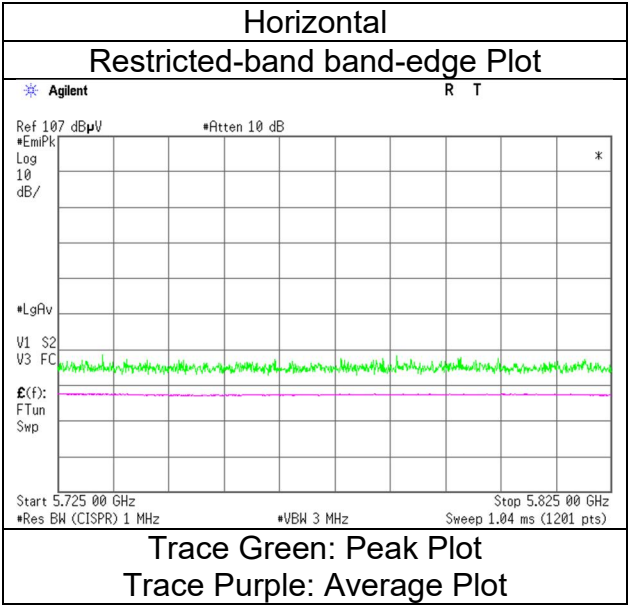
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.20	32.57	17.61	38.95	2.10	58.53	-36.70	-27.0	9.7	114	41	-
Vert.	5725.000	PK	45.85	32.57	17.61	38.95	2.10	59.18	-36.05	-27.0	9.0	177	348	-

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11ac-40 5670 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
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5755 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: 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	45.11	32.35	17.55	38.94	2.10	58.17	-37.06	-27.0	10.0	147	32	-
Hori.	5700.000	PK	45.16	32.48	17.59	38.95	2.10	58.38	-36.85	10.0	46.8	147	32	-
Hori.	5720.000	PK	46.42	32.55	17.60	38.95	2.10	59.72	-35.51	15.6	51.1	147	32	-
Hori.	5725.000	PK	46.90	32.57	17.61	38.95	2.10	60.23	-35.00	27.0	62.0	147	32	-
Vert.	5650.000	PK	45.67	32.35	17.55	38.94	2.10	58.73	-36.50	-27.0	9.4	165	342	-
Vert.	5700.000	PK	46.53	32.48	17.59	38.95	2.10	59.75	-35.48	10.0	45.4	165	342	-
Vert.	5720.000	PK	46.76	32.55	17.60	38.95	2.10	60.06	-35.17	15.6	50.7	165	342	-
Vert.	5725.000	PK	48.21	32.57	17.61	38.95	2.10	61.54	-33.69	27.0	60.6	165	342	-

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

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

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

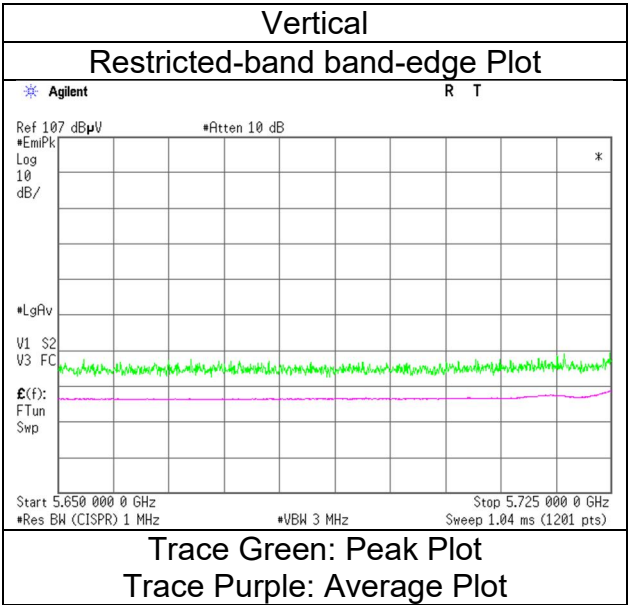
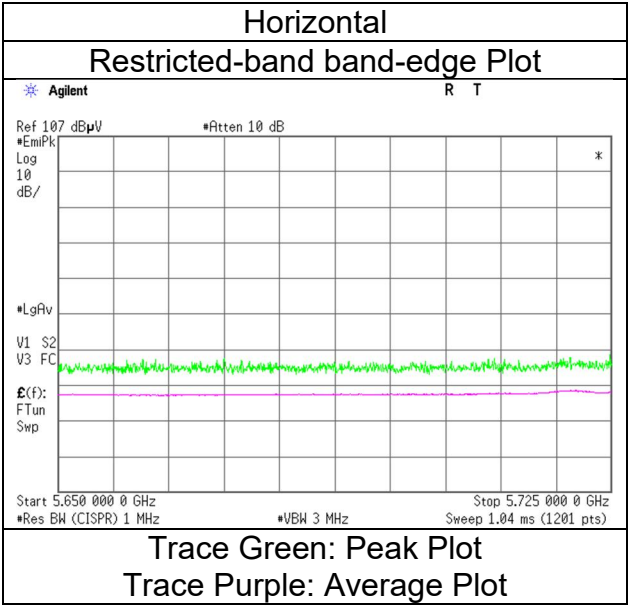
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

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

Shonan EMC Lab.
SAC 2
January 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11ac-40 5755 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
Date	January 7, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Makoto Hosaka (1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5795 MHz
Antenna type	5G CH 0: monopole 5G CH 1: monopole

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

(* PK: Peak, AV: 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.	5850.000	PK	45.45	32.90	17.71	38.97	2.10	59.19	-36.04	27.0	63.0	152	28	-
Hori.	5855.000	PK	45.23	32.91	17.71	38.97	2.10	58.98	-36.25	15.6	51.8	152	28	-
Hori.	5875.000	PK	45.25	32.96	17.73	38.98	2.10	59.06	-36.17	10.0	46.1	152	28	-
Hori.	5925.000	PK	45.07	33.04	17.76	38.99	2.10	58.98	-36.25	-27.0	9.2	152	28	-
Vert.	5850.000	PK	46.44	32.90	17.71	38.97	2.10	60.18	-35.05	27.0	62.0	156	349	-
Vert.	5855.000	PK	46.18	32.91	17.71	38.97	2.10	59.93	-35.30	15.6	50.9	156	349	-
Vert.	5875.000	PK	45.77	32.96	17.73	38.98	2.10	59.58	-35.65	10.0	45.6	156	349	-
Vert.	5925.000	PK	45.69	33.04	17.76	38.99	2.10	59.60	-35.63	-27.0	8.6	156	349	-

Vert.	5525.000	1 R	45.05	55.04	17.75	55.55	2.10	55.00	-55.05	-2
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor										

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

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

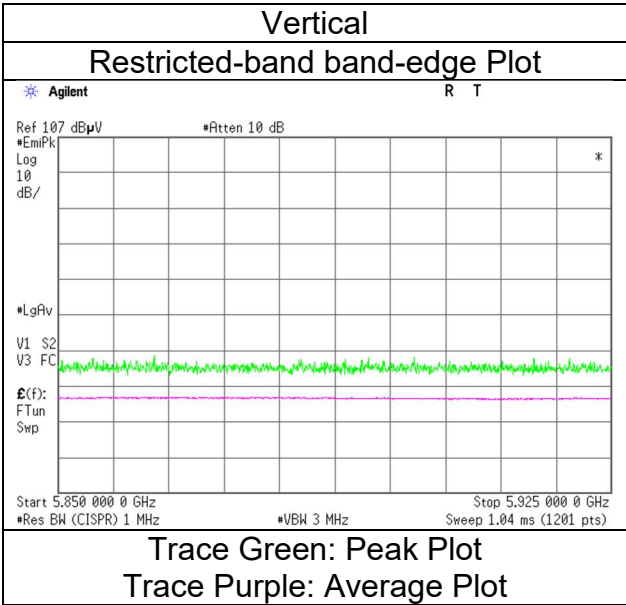
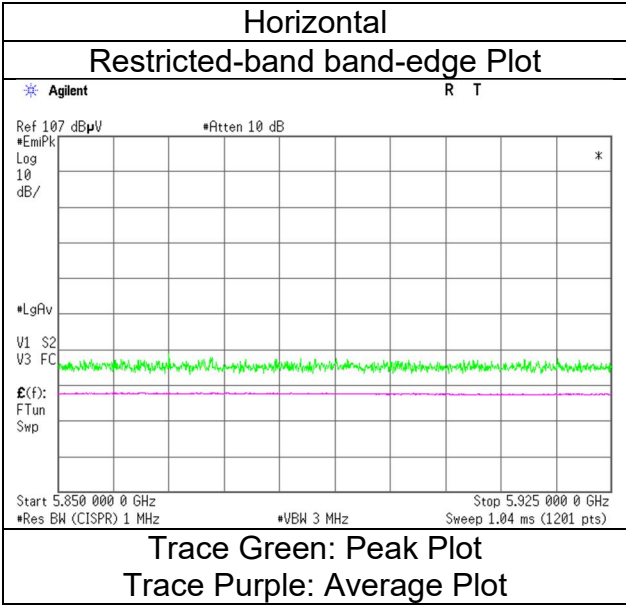
Distance factor : 1 GHz - 10 GHz : $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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 7, 2024
23 deg. C / 35 % RH
Makoto Hosaka
Tx 11ac-40 5795 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 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 Takayuki Kobayashi Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: 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	48.88	31.86	-24.90	-	2.10	57.94	73.9	15.9	141	141	-
Hori.	15570.000	PK	47.58	39.49	11.65	40.53	-9.54	48.65	73.9	25.2	100	0	-
Hori.	5150.000	AV	34.65	31.86	-24.90	-	2.10	43.71	53.9	10.1	141	141	VBW: 200 Hz
Hori.	15570.000	AV	35.34	39.49	11.65	40.53	-9.54	36.41	53.9	17.4	100	0	VBW: 200 Hz, Floor noise
Vert.	5150.000	PK	48.87	31.86	-24.90	-	2.10	57.93	73.9	15.9	135	345	-
Vert.	15570.000	PK	47.60	39.49	11.65	40.53	-9.54	48.67	73.9	25.2	100	0	-
Vert.	5150.000	AV	34.63	31.86	-24.90	-	2.10	43.69	53.9	10.2	135	345	VBW: 200 Hz
Vert.	15570.000	AV	35.21	39.49	11.65	40.53	-9.54	36.28	53.9	17.6	100	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.	6919.934	PK	54.06	35.22	-33.35	-	2.10	58.03	-37.20	-27.0	10.2	105	69	-
Hori.	10380.000	PK	54.35	36.36	9.38	42.84	-9.54	47.71	-47.52	-27.0	20.5	206	216	-
Vert.	6919.935	PK	54.74	35.22	-33.35	-	2.10	58.71	-36.52	-27.0	9.5	172	195	-
Vert.	10380.000	PK	53.74	36.36	9.38	42.84	-9.54	47.10	-48.13	-27.0	21.1	153	257	-

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

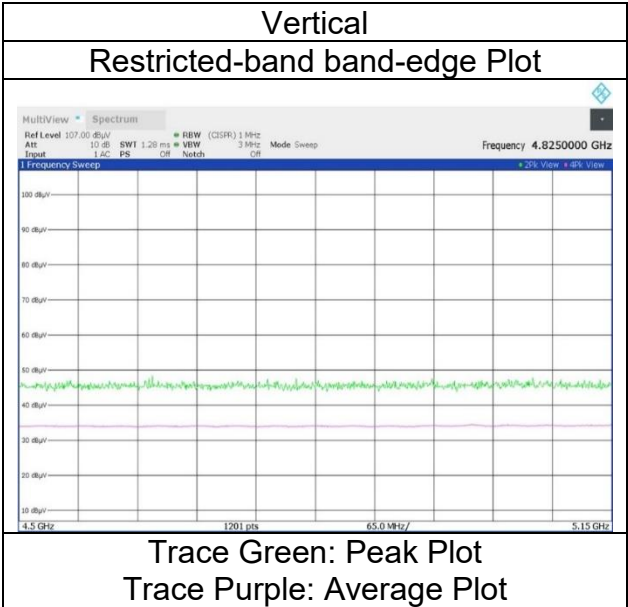
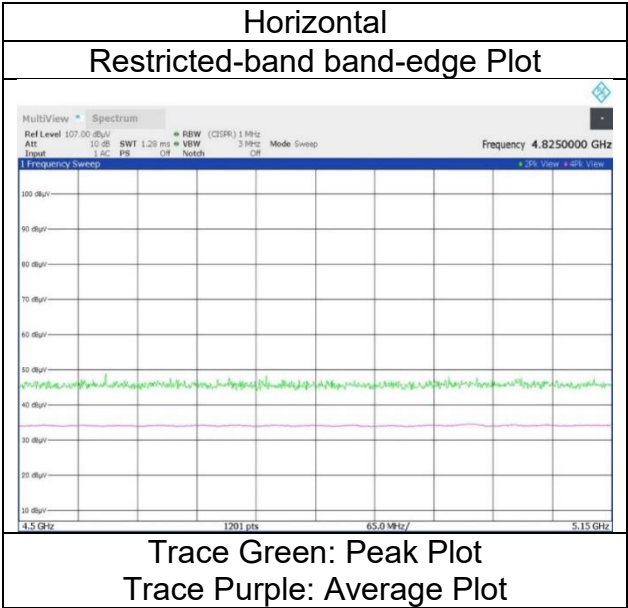
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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-40(OFDM) 5190 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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5230 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: 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.	15690.000	PK	46.66	39.59	11.61	40.55	-9.54	47.77	73.9	26.1	100	0	-
Hori.	15690.000	AV	34.90	39.59	11.61	40.55	-9.54	36.01	53.9	17.8	100	0	VBW: 200 Hz, Floor noise
Vert.	15690.000	PK	46.37	39.59	11.61	40.55	-9.54	47.48	73.9	26.4	100	0	-
Vert.	15690.000	AV	34.79	39.59	11.61	40.55	-9.54	35.90	53.9	18.0	100	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 : 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.	6973.257	PK	54.25	35.53	-33.34	-	2.10	58.54	-36.69	-27.0	9.6	150	66	-
Hori.	10460.000	PK	52.75	36.48	9.40	42.84	-9.54	46.25	-48.98	-27.0	21.9	192	234	-
Vert.	6973.293	PK	54.60	35.53	-33.34	-	2.10	58.89	-36.34	-27.0	9.3	169	194	-
Vert.	10460.000	PK	51.55	36.48	9.40	42.84	-9.54	45.05	-50.18	-27.0	23.1	205	258	-

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	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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5310 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: 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	48.23	31.58	-24.65	-	2.10	57.26	73.9	16.6	157	46	-
Hori.	5354.167	PK	50.54	31.59	-24.65	-	2.10	59.58	73.9	14.3	157	46	-
Hori.	10620.000	PK	49.66	37.05	9.45	42.85	-9.54	43.77	73.9	30.1	193	288	-
Hori.	15930.000	PK	45.99	40.05	11.53	40.60	-9.54	47.43	73.9	26.4	100	0	-
Hori.	5350.000	AV	34.53	31.58	-24.65	-	2.10	43.56	53.9	10.3	157	46	VBW: 200 Hz
Hori.	5354.167	AV	35.57	31.59	-24.65	-	2.10	44.61	53.9	9.2	157	46	VBW: 200 Hz
Hori.	10620.000	AV	37.23	37.05	9.45	42.85	-9.54	31.34	53.9	22.5	193	288	VBW: 200 Hz
Hori.	15930.000	AV	33.85	40.05	11.53	40.60	-9.54	35.29	53.9	18.6	100	0	VBW: 200 Hz, Floor noise
Vert.	5350.000	PK	49.93	31.58	-24.65	-	2.10	58.96	73.9	14.9	125	201	-
Vert.	5356.823	PK	50.32	31.59	-24.65	-	2.10	59.36	73.9	14.5	125	201	-
Vert.	10620.000	PK	50.49	37.05	9.45	42.85	-9.54	44.60	73.9	29.3	196	240	-
Vert.	15930.000	PK	45.59	40.05	11.53	40.60	-9.54	47.03	73.9	26.8	100	0	-
Vert.	5350.000	AV	35.38	31.58	-24.65	-	2.10	44.41	53.9	9.4	125	201	VBW: 200 Hz
Vert.	5356.823	AV	35.93	31.59	-24.65	-	2.10	44.97	53.9	8.9	125	201	VBW: 200 Hz
Vert.	10620.000	AV	38.02	37.05	9.45	42.85	-9.54	32.13	53.9	21.7	196	240	VBW: 200 Hz
Vert.	15930.000	AV	33.76	40.05	11.53	40.60	-9.54	35.20	53.9	18.7	100	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.	7079.934	PK	54.85	36.03	-33.23	-	2.10	59.75	-35.48	-27.0	8.4	162	64	-
Vert.	7079.939	PK	55.15	36.03	-33.23	-	2.10	60.05	-35.18	-27.0	8.1	163	98	-

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

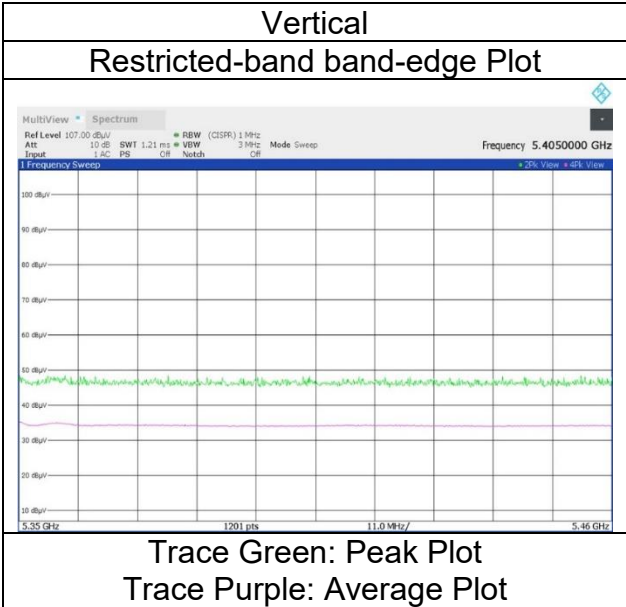
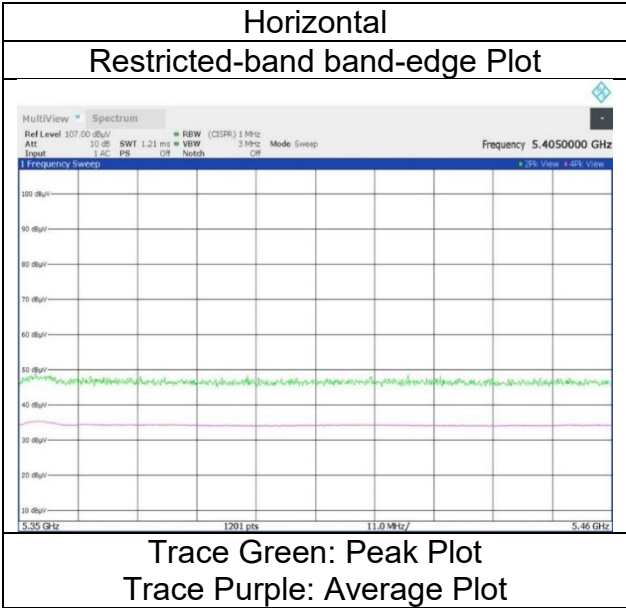
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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-40(OFDM) 5310 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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5510 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: 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	48.98	31.78	-24.51	-	2.10	58.35	73.9	15.5	247	40	-
Hori.	7346.011	PK	48.21	36.30	-32.84	-	2.10	53.77	73.9	20.1	148	210	-
Hori.	11020.000	PK	48.77	37.59	9.60	42.89	-9.54	43.53	73.9	30.3	181	275	-
Hori.	5460.000	AV	34.17	31.78	-24.51	0.00	2.10	43.54	53.9	10.3	247	40	VBW:200 Hz
Hori.	11020.000	AV	36.11	37.59	9.60	42.89	-9.54	30.87	53.9	23.0	181	275	VBW:200 Hz
Vert.	5460.000	PK	48.57	31.78	-24.51	-	2.10	57.94	73.9	15.9	152	350	-
Vert.	7346.000	PK	48.34	36.30	-32.84	-	2.10	53.90	73.9	20.0	155	201	-
Vert.	11020.000	PK	48.16	37.59	9.60	42.89	-9.54	42.92	73.9	30.9	197	239	-
Vert.	5460.000	AV	34.35	31.78	-24.51	-	2.10	43.72	53.9	10.1	152	350	VBW:200 Hz
Vert.	11020.000	AV	36.09	37.59	9.60	42.89	-9.54	30.85	53.9	23.0	197	239	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	49.28	31.79	-24.50	-	2.10	58.67	-36.56	-27.0	9.5	247	40	-
Hori.	6611.935	PK	50.46	34.31	-33.36	-	2.10	53.51	-41.72	-27.0	14.7	100	68	-
Hori.	16530.000	PK	46.28	40.11	12.30	40.64	-9.54	48.51	-46.72	-27.0	19.7	150	0	-
Vert.	5470.000	PK	49.38	31.79	-24.50	-	2.10	58.77	-36.46	-27.0	9.4	152	350	-
Vert.	6611.933	PK	51.33	34.31	-33.36	-	2.10	54.38	-40.85	-27.0	13.8	168	197	-
Vert.	16530.000	PK	45.41	40.11	12.30	40.64	-9.54	47.64	-47.59	-27.0	20.5	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).

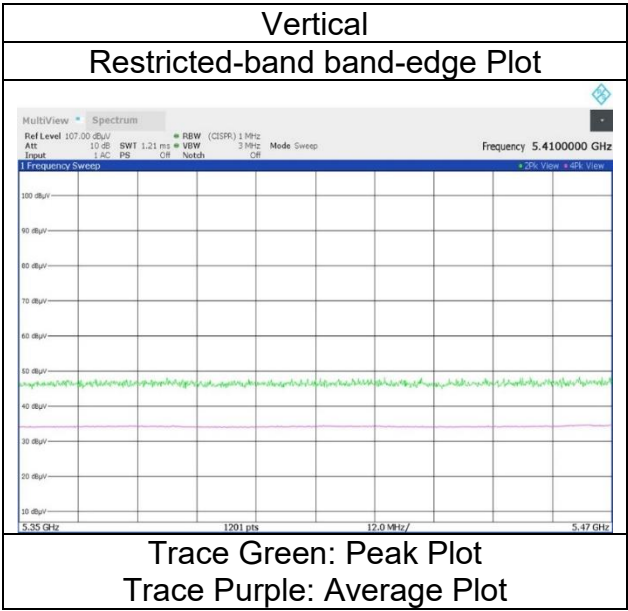
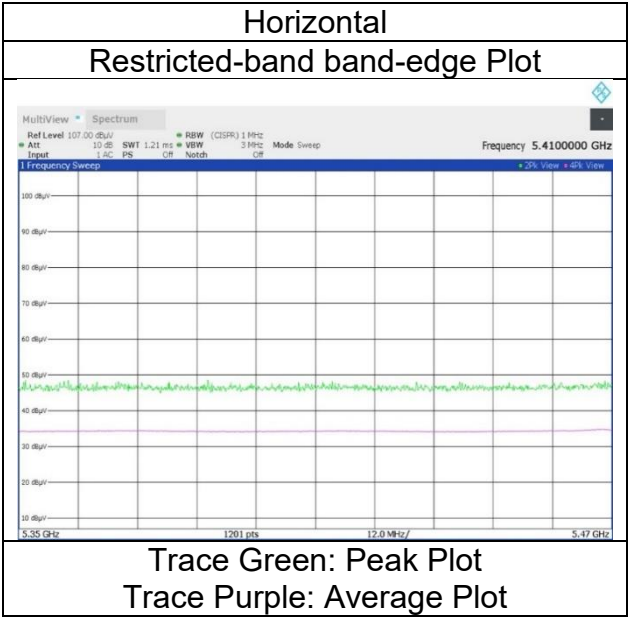
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
March 8, 2024
23 deg. C / 35 % RH
Yohsuke Matsuzawa
Tx 11ax-40(OFDM) 5510 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 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 Takayuki Kobayashi Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)
Mode Tx 11ax-40(OFDM) 5550 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: 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.	7400.931	PK	48.97	36.40	-32.76	-	2.10	54.71	73.9	19.1	155	67	-
Hori.	11100.000	PK	47.26	37.63	9.65	42.84	-9.54	42.16	73.9	31.7	188	249	-
Hori.	11100.000	AV	35.41	37.63	9.65	42.84	-9.54	30.31	53.9	23.5	188	249	VBW:200 Hz
Vert.	7400.933	PK	50.31	36.40	-32.76	-	2.10	56.05	73.9	17.8	156	195	-
Vert.	11100.000	PK	48.38	37.63	9.65	42.84	-9.54	43.28	73.9	30.6	189	250	-
Vert.	11100.000	AV	35.45	37.63	9.65	42.84	-9.54	30.35	53.9	23.5	189	250	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 (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16650.000	PK	46.26	39.77	12.36	40.60	-9.54	48.25	-46.98	-27.0	19.9	150	0	-
Vert.	16650.000	PK	47.05	39.77	12.36	40.60	-9.54	49.04	-46.19	-27.0	19.1	150	0	-

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

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	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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5670 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: 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.	7560.259	PK	48.16	36.33	-32.58	-	2.10	54.01	73.9	19.8	147	59	-
Hori.	11340.000	PK	46.95	38.17	9.77	42.68	-9.54	42.67	73.9	31.2	182	254	-
Hori.	11340.000	AV	35.04	38.17	9.77	42.68	-9.54	30.76	53.9	23.1	182	254	VBW:200 Hz
Vert.	7560.259	PK	48.45	36.33	-32.58	-	2.10	54.30	73.9	19.6	159	206	-
Vert.	11340.000	PK	46.72	38.17	9.77	42.68	-9.54	42.44	73.9	31.4	202	259	-
Vert.	11340.000	AV	34.81	38.17	9.77	42.68	-9.54	30.53	53.9	23.3	202	259	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	48.64	32.01	-24.39	-	2.10	58.36	-36.87	-27.0	9.8	149	35	-
Hori.	17010.000	PK	46.11	39.67	12.49	40.48	-9.54	48.25	-46.98	-27.0	19.9	150	0	-
Vert.	5725.000	PK	48.53	32.01	-24.39	-	2.10	58.25	-36.98	-27.0	9.9	218	359	-
Vert.	17010.000	PK	45.84	39.67	12.49	40.48	-9.54	47.98	-47.25	-27.0	20.2	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).

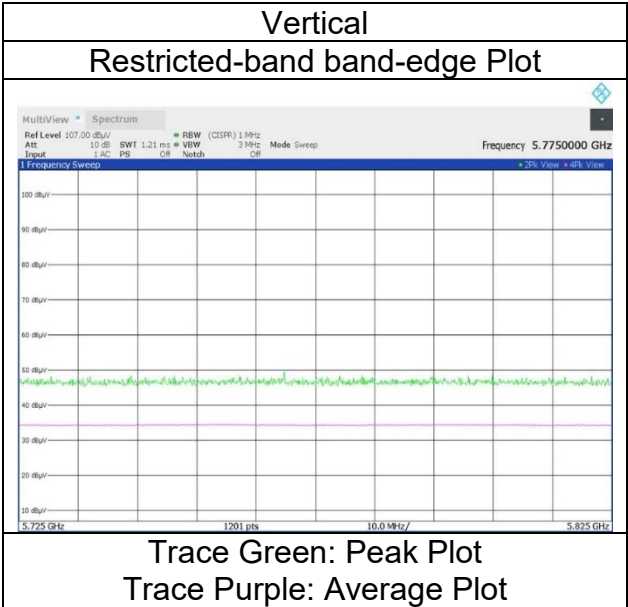
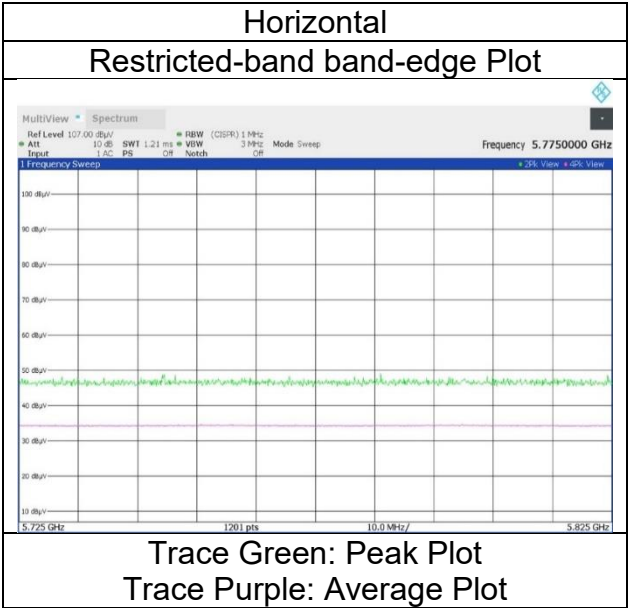
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
March 8, 2024
23 deg. C / 35 % RH
Yohsuke Matsuzawa
Tx 11ax-40(OFDM) 5670 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	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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5755 MHz		
Antenna type	5G_CH 0: monopole 5G_CH 1: 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.	7673.345	PK	48.10	36.18	-32.49	-	2.10	53.89	73.9	20.0	134	71	-
Hori.	11510.000	PK	48.93	38.33	9.86	42.58	-9.54	45.00	73.9	28.9	182	215	-
Hori.	11510.000	AV	35.94	38.33	9.86	42.58	-9.54	32.01	53.9	21.8	182	215	VBW:200 Hz
Vert.	7673.342	PK	48.22	36.18	-32.49	-	2.10	54.01	73.9	19.8	159	206	-
Vert.	11510.000	PK	47.74	38.33	9.86	42.58	-9.54	43.81	73.9	30.0	191	230	-
Vert.	11510.000	AV	35.63	38.33	9.86	42.58	-9.54	31.70	53.9	22.2	191	230	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	48.90	31.84	-24.41	-	2.10	58.43	-36.80	-27.0	9.8	151	33	-
Hori.	5700.000	PK	48.24	31.95	-24.39	-	2.10	57.90	-37.33	10.0	47.3	151	33	-
Hori.	5720.000	PK	49.43	31.99	-24.38	-	2.10	59.14	-36.09	15.6	51.6	151	33	-
Hori.	5725.000	PK	50.70	32.01	-24.39	-	2.10	60.42	-34.81	27.0	61.8	151	33	-
Hori.	17265.000	PK	45.94	40.10	12.53	40.32	-9.54	48.71	-46.52	-27.0	19.5	150	0	-
Vert.	5650.000	PK	48.53	31.84	-24.41	-	2.10	58.06	-37.17	-27.0	10.1	166	11	-
Vert.	5700.000	PK	48.55	31.95	-24.39	-	2.10	58.21	-37.02	10.0	47.0	166	11	-
Vert.	5720.000	PK	49.31	31.99	-24.38	-	2.10	59.02	-36.21	15.6	51.8	166	11	-
Vert.	5725.000	PK	50.56	32.01	-24.39	-	2.10	60.28	-34.95	27.0	61.9	166	11	-
Vert.	17265.000	PK	46.67	40.10	12.53	40.32	-9.54	49.44	-45.79	-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

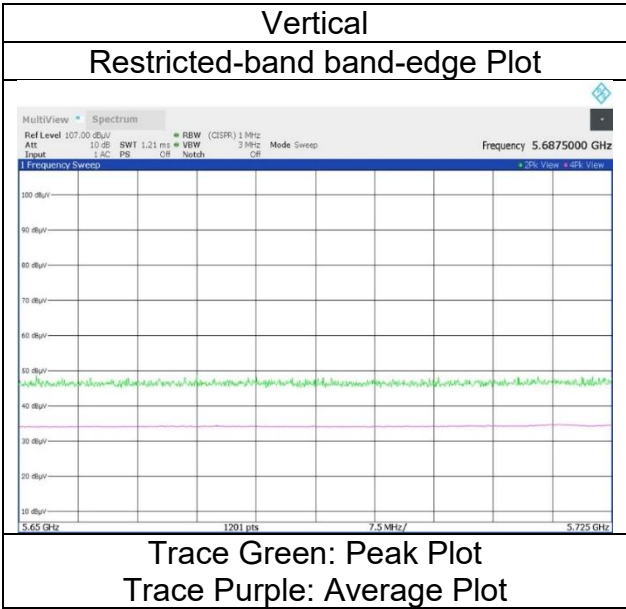
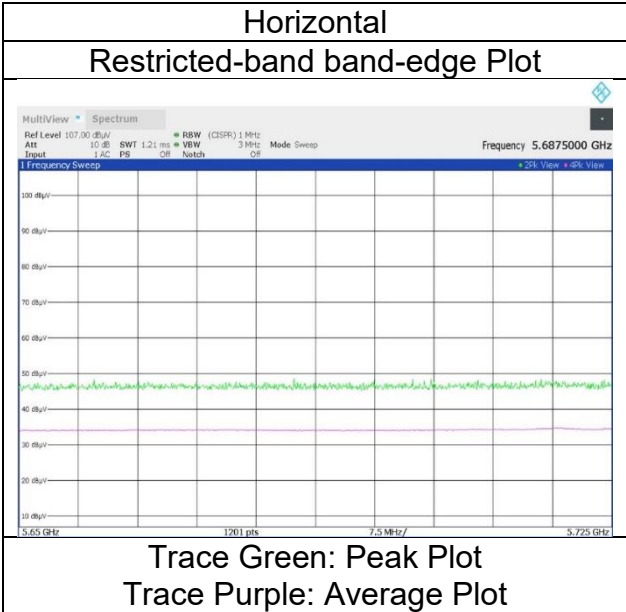
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	WAC 1
Date	March 8, 2024
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-40(OFDM) 5755 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	Takayuki Kobayashi	Hiromasa Sato
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)
Mode	Tx 11ax-40(OFDM) 5795 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.	7726.672	PK	48.53	36.22	-32.46	-	2.10	54.39	73.9	19.5	155	78	-
Hori.	11590.000	PK	48.44	38.33	9.91	42.54	-9.54	44.60	73.9	29.3	185	253	-
Hori.	11590.000	AV	36.88	38.33	9.91	42.54	-9.54	33.04	53.9	20.8	185	253	VBW:200 Hz
Vert.	7726.666	PK	48.13	36.22	-32.46	-	2.10	53.99	73.9	19.9	159	206	-
Vert.	11590.000	PK	49.55	38.33	9.91	42.54	-9.54	45.71	73.9	28.1	183	254	-
Vert.	11590.000	AV	36.76	38.33	9.91	42.54	-9.54	32.92	53.9	20.9	183	254	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.	5850.000	PK	48.68	32.33	-24.33	-	2.10	58.78	-36.45	27.0	63.4	151	37	-
Hori.	5855.000	PK	48.26	32.34	-24.32	-	2.10	58.38	-36.85	15.6	52.4	151	37	-
Hori.	5875.000	PK	49.04	32.38	-24.32	-	2.10	59.20	-36.03	10.0	46.0	151	37	-
Hori.	5925.000	PK	48.62	32.46	-24.31	-	2.10	58.87	-36.36	-27.0	9.3	151	37	-
Hori.	17385.000	PK	46.52	40.22	12.55	40.24	-9.54	49.51	-45.72	-27.0	18.7	150	0	-
Vert.	5850.000	PK	49.26	32.33	-24.33	-	2.10	59.36	-35.87	27.0	62.8	149	351	-
Vert.	5855.000	PK	48.68	32.34	-24.32	-	2.10	58.80	-36.43	15.6	52.0	149	351	-
Vert.	5875.000	PK	49.16	32.38	-24.32	-	2.10	59.32	-35.91	10.0	45.9	149	351	-
Vert.	5925.000	PK	48.26	32.46	-24.31	-	2.10	58.51	-36.72	-27.0	9.7	149	351	-
Vert.	17385.000	PK	46.22	40.22	12.55	40.24	-9.54	49.21	-46.02	-27.0	19.0	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

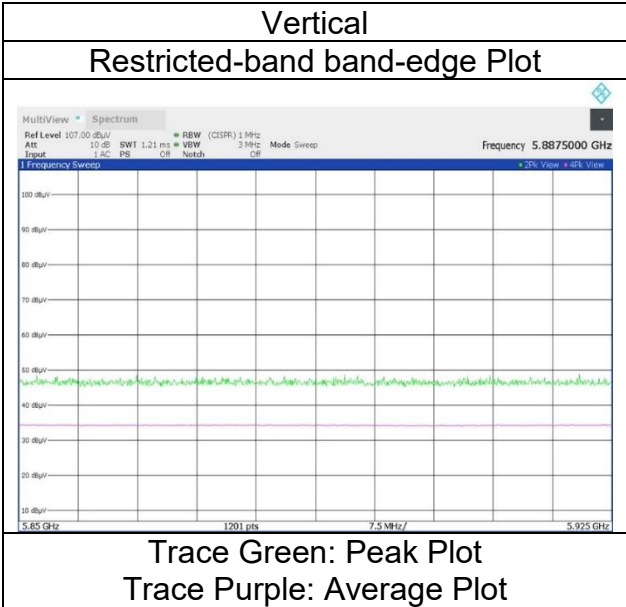
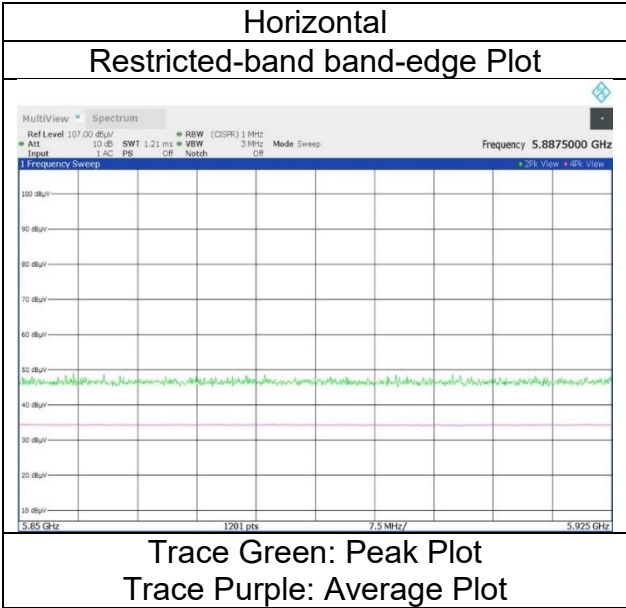
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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-40(OFDM) 5795 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
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

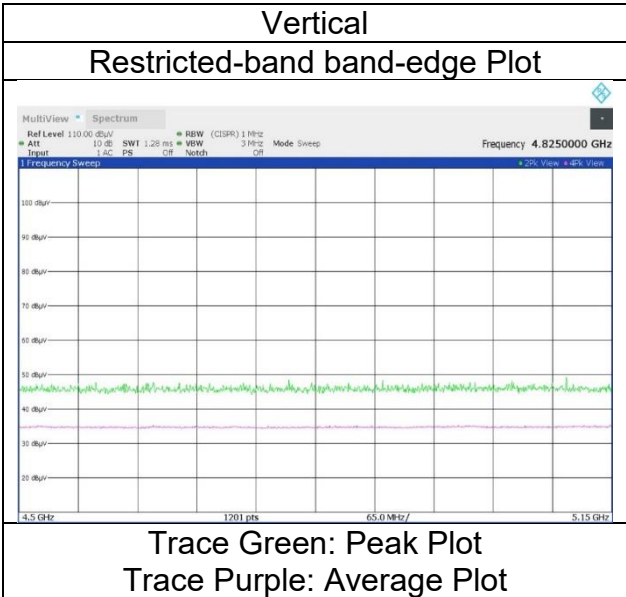
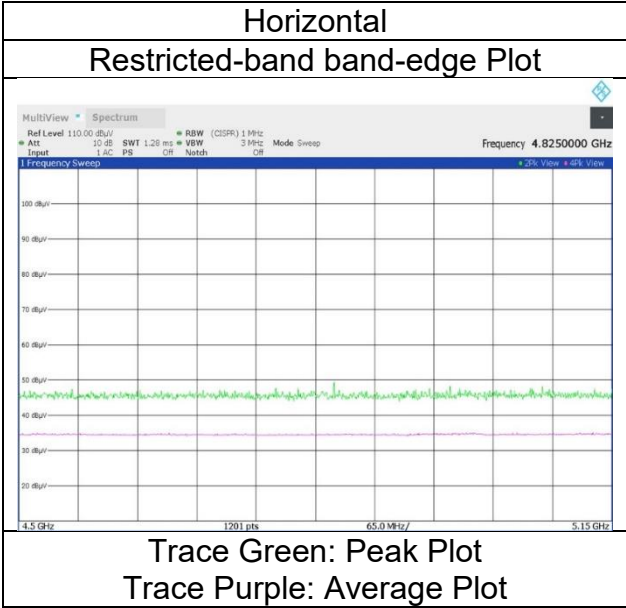
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.55	31.86	-25.53	-	2.10	56.98	73.9	16.9	240	339	-
Hori.	5150.000	AV	35.18	31.86	-25.53	-	2.10	43.61	53.9	10.2	240	339	VBW: 1 kHz
Vert.	5150.000	PK	48.10	31.86	-25.53	-	2.10	56.53	73.9	17.3	208	340	-
Vert.	5150.000	AV	34.95	31.86	-25.53	-	2.10	43.38	53.9	10.5	208	340	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	WAC 1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5190 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 WAC 1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

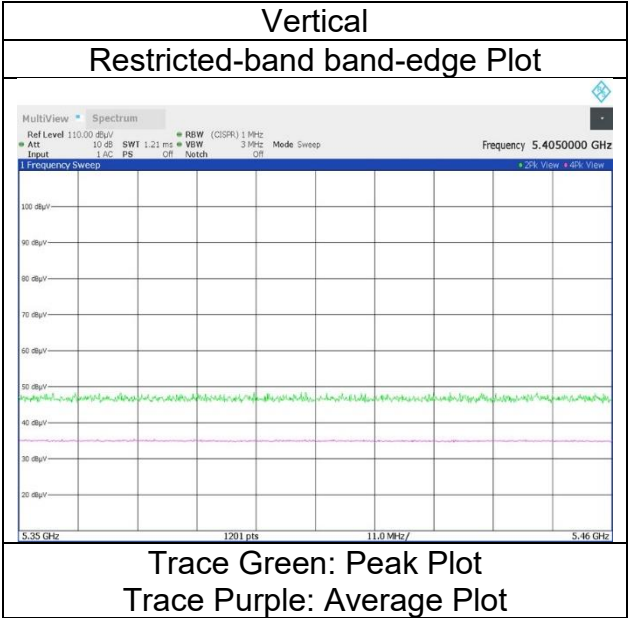
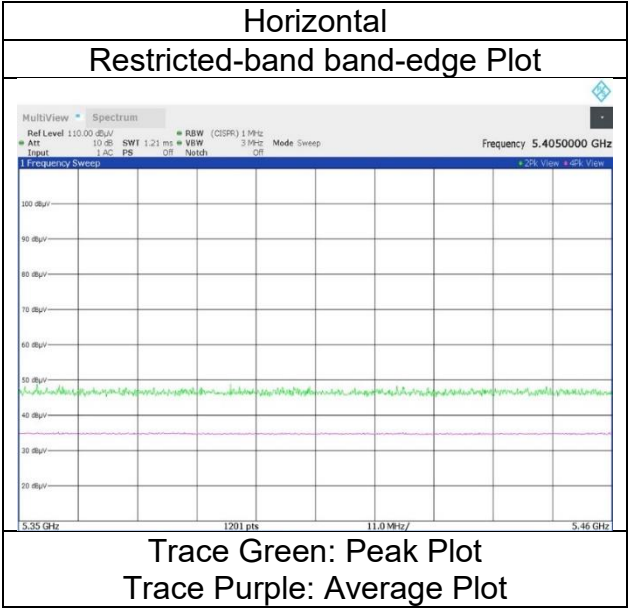
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.86	31.58	-25.29	-	2.10	57.25	73.9	16.6	143	333	-
Hori.	5350.000	AV	34.84	31.58	-25.29	-	2.10	43.23	53.9	10.6	143	333	VBW. 1 kHz
Vert.	5350.000	PK	50.11	31.58	-25.29	-	2.10	58.50	73.9	15.4	150	349	-
Vert.	5350.000	AV	34.77	31.58	-25.29	-	2.10	43.16	53.9	10.7	150	349	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	WAC 1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5310 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
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5510 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	48.44	31.78	-25.16	-	2.10	57.16	73.9	16.7	131	328	-
Hori.	5460.000	AV	34.82	31.78	-25.16	-	2.10	43.54	53.9	10.3	131	328	VBW 1 KHz
Vert.	5460.000	PK	47.05	31.78	-25.16	-	2.10	55.77	73.9	18.1	173	339	-
Vert.	5460.000	AV	34.73	31.78	-25.16	-	2.10	43.45	53.9	10.4	173	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	48.96	31.79	-25.15	-	2.10	57.70	-37.53	-27.0	10.5	131	328	-
Vert.	5470.000	PK	46.81	31.79	-25.15	-	2.10	55.55	-39.68	-27.0	12.6	173	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).

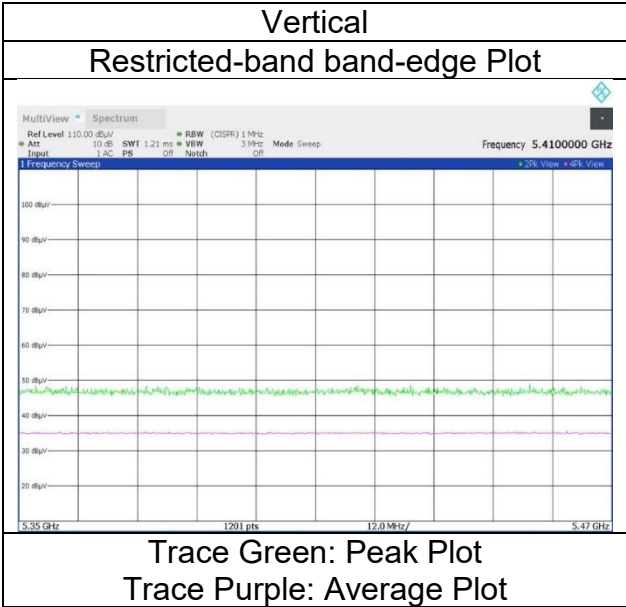
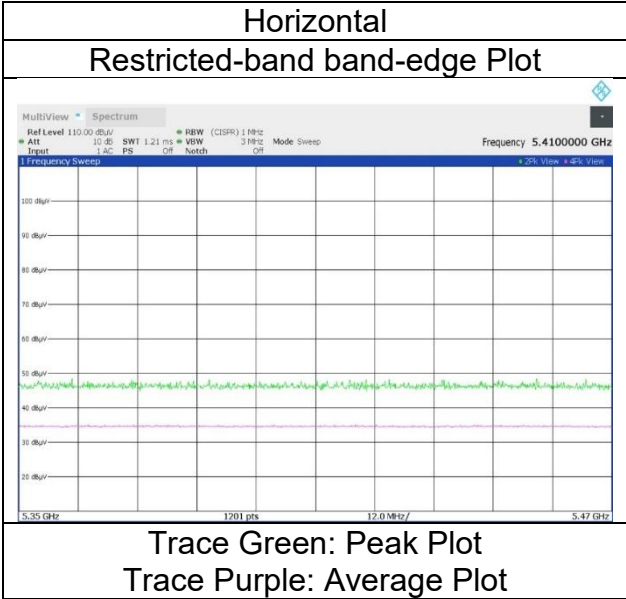
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5510 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 WAC 1
Date April 17, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.83	32.01	-25.06	-	2.10	56.88	-38.35	-27.0	11.3	229	46	-
Vert.	5725.000	PK	46.44	32.01	-25.06	-	2.10	55.49	-39.74	-27.0	12.7	171	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).

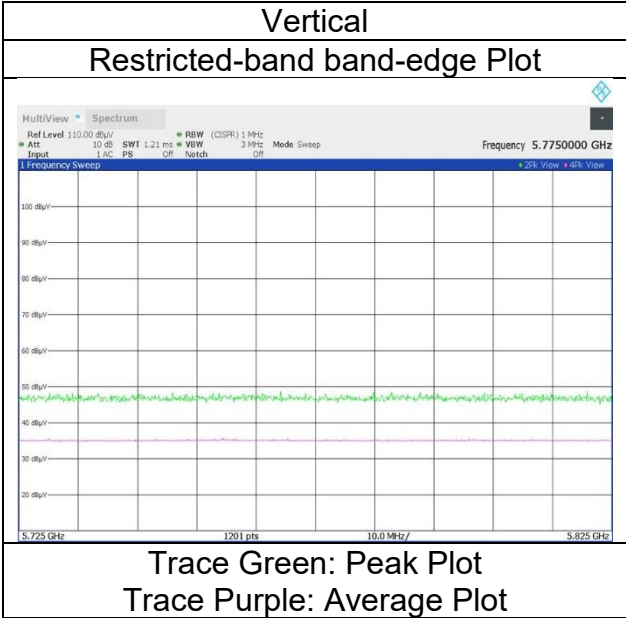
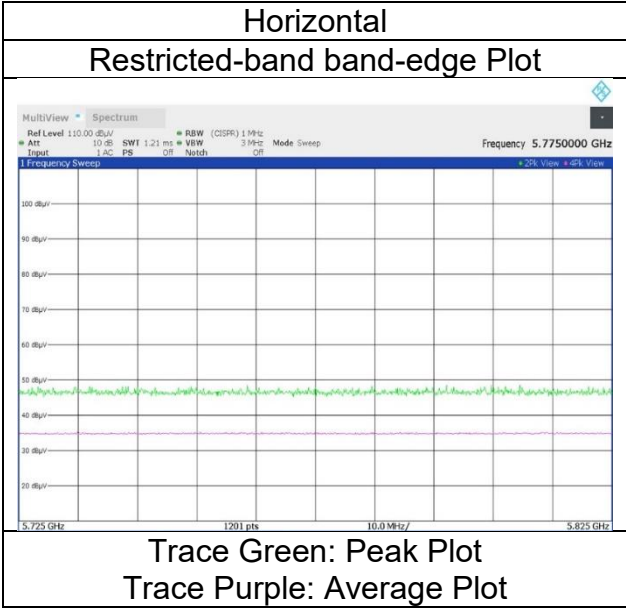
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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	April 17, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5670 MHz
Antenna type	5G_CH 0: monopole 5G_CH 1: monopole

Index 17



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC 1
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5755 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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.37	31.84	-25.07	-	2.10	57.24	-37.99	-27.0	10.9	169	329	-
Hori.	5700.000	PK	48.03	31.95	-25.06	-	2.10	57.02	-38.21	10.0	48.2	169	329	-
Hori.	5715.000	PK	49.07	31.98	-25.06	-	2.10	58.09	-37.14	14.2	51.3	169	329	-
Hori.	5720.000	PK	48.15	31.99	-25.05	-	2.10	57.19	-38.04	15.6	53.6	169	329	-
Hori.	5725.000	PK	51.31	32.01	-25.06	-	2.10	60.36	-34.87	27.0	61.8	169	329	-
Vert.	5650.000	PK	46.95	31.84	-25.07	-	2.10	55.82	-39.41	-27.0	12.4	165	347	-
Vert.	5700.000	PK	46.77	31.95	-25.06	-	2.10	55.76	-39.47	10.0	49.4	165	347	-
Vert.	5715.000	PK	48.24	31.98	-25.06	-	2.10	57.26	-37.97	14.2	52.1	165	347	-
Vert.	5720.000	PK	46.78	31.99	-25.05	-	2.10	55.82	-39.41	15.6	55.0	165	347	-
Vert.	5725.000	PK	51.20	32.01	-25.06	-	2.10	60.25	-34.98	27.0	61.9	165	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).

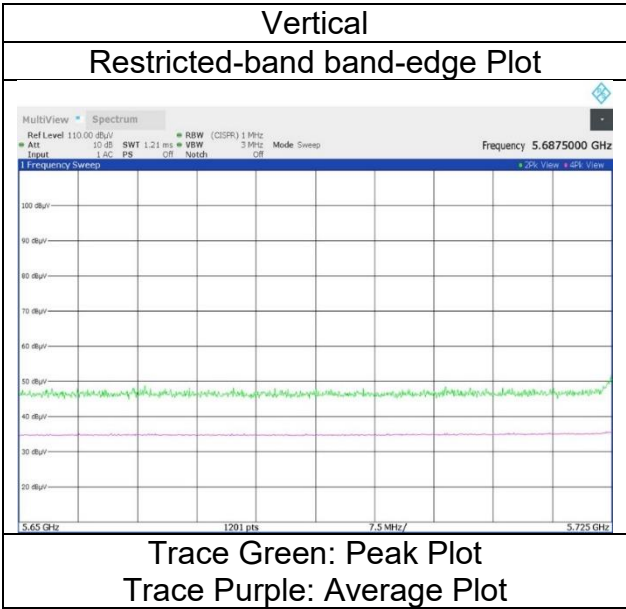
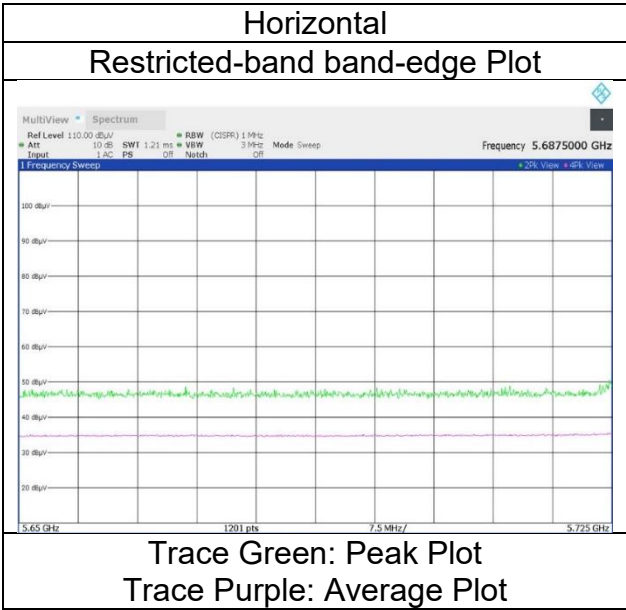
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5755 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 WAC 1
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 26-tone 5795 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.60	32.33	-25.01	-	2.10	57.02	-38.21	27.0	65.2	166	328	-
Hori.	5855.000	PK	47.35	32.34	-25.00	-	2.10	56.79	-38.44	15.6	54.0	166	328	-
Hori.	5860.000	PK	47.33	32.35	-25.01	-	2.10	56.77	-38.46	14.2	52.6	166	328	-
Hori.	5875.000	PK	47.29	32.38	-25.00	-	2.10	56.77	-38.46	10.0	48.4	166	328	-
Hori.	5925.000	PK	47.33	32.46	-24.99	-	2.10	56.90	-38.33	-27.0	11.3	166	328	-
Vert.	5850.000	PK	47.13	32.33	-25.01	-	2.10	56.55	-38.68	27.0	65.6	243	351	-
Vert.	5855.000	PK	46.45	32.34	-25.00	-	2.10	55.89	-39.34	15.6	54.9	243	351	-
Vert.	5860.000	PK	46.62	32.35	-25.01	-	2.10	56.06	-39.17	14.2	53.3	243	351	-
Vert.	5875.000	PK	46.21	32.38	-25.00	-	2.10	55.69	-39.54	10.0	49.5	243	351	-
Vert.	5925.000	PK	47.00	32.46	-24.99	-	2.10	56.57	-38.66	-27.0	11.6	243	351	-

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).

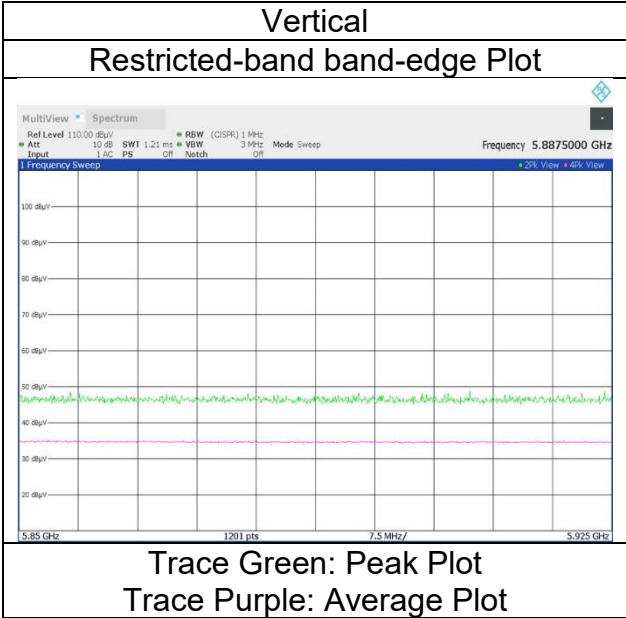
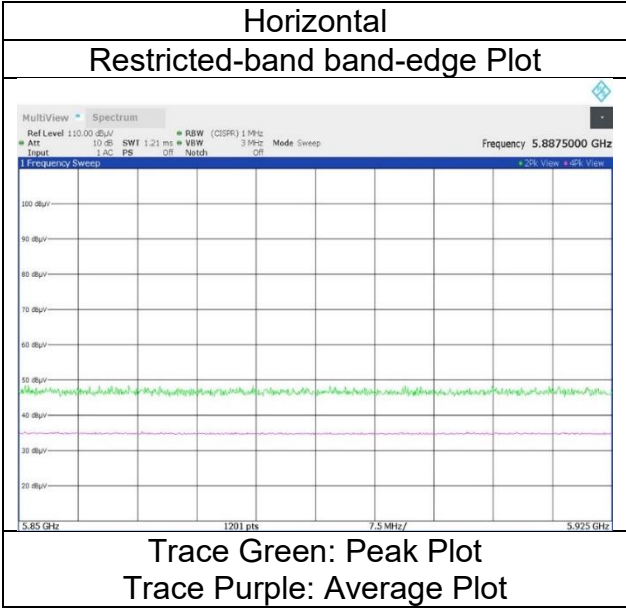
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 26-tone 5795 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
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 52-tone 5190 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	48.25	31.86	-25.53		2.10	56.68	73.9	17.2	170	338	-
Hori.	5150.000	AV	35.48	31.86	-25.53		2.10	43.91	53.9	9.9	170	338	VBW.2 kHz
Vert.	5150.000	PK	47.60	31.86	-25.53		2.10	56.03	73.9	17.8	110	340	-
Vert.	5150.000	AV	35.03	31.86	-25.53		2.10	43.46	53.9	10.4	110	340	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).

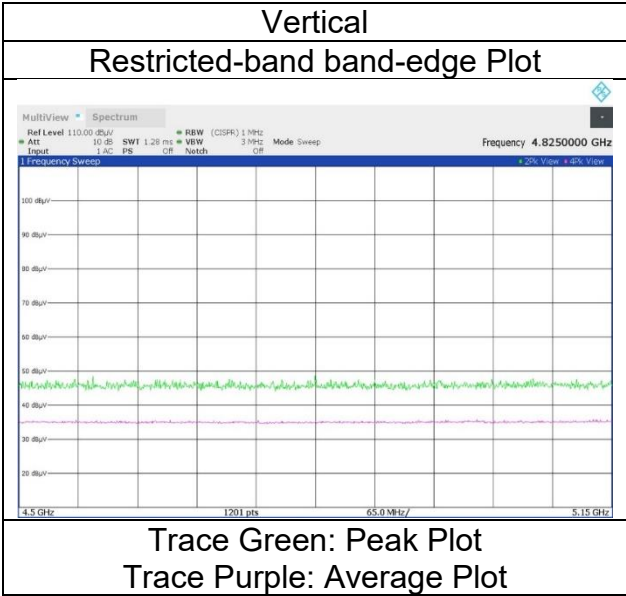
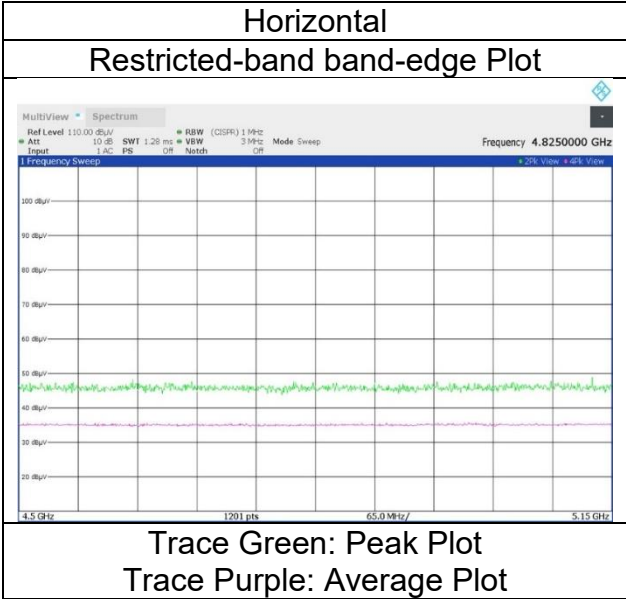
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 52-tone 5190 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
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	59.35	31.58	-25.29	-	2.10	67.74	73.9	6.1	249	335	-
Hori.	5350.000	AV	35.55	31.58	-25.29	-	2.10	43.94	53.9	9.9	249	335	VBW.2 kHz
Vert.	5350.000	PK	46.75	31.58	-25.29	-	2.10	55.14	73.9	18.7	147	354	-
Vert.	5350.000	AV	35.19	31.58	-25.29	-	2.10	43.58	53.9	10.3	147	354	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).

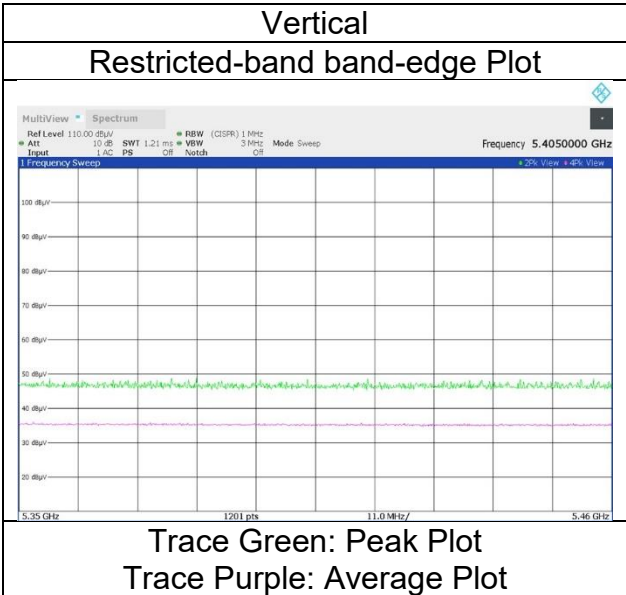
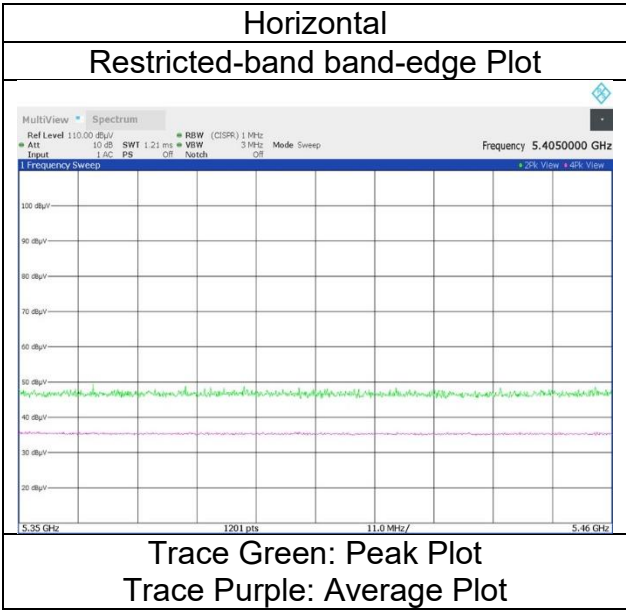
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 52-tone 5310 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
Date	April 18, 2024
Temperature / Humidity	21 deg.C, 58 %RH
Engineer	Adachi Kenichi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 52-tone 5510 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	47.88	31.78	-25.16	-	2.10	56.60	73.9	17.3	243	325	-
Hori.	5460.000	AV	35.30	31.78	-25.16	-	2.10	44.02	53.9	9.8	243	325	VBW.2 kHz
Vert.	5460.000	PK	47.07	31.78	-25.16	-	2.10	55.79	73.9	18.1	192	338	-
Vert.	5460.000	AV	35.23	31.78	-25.16	-	2.10	43.95	53.9	9.9	192	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	46.98	31.79	-25.15	-	2.10	55.72	-39.51	-27.0	12.5	243	325	-
Vert.	5470.000	PK	46.89	31.79	-25.15	-	2.10	55.63	-39.60	-27.0	12.6	192	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).

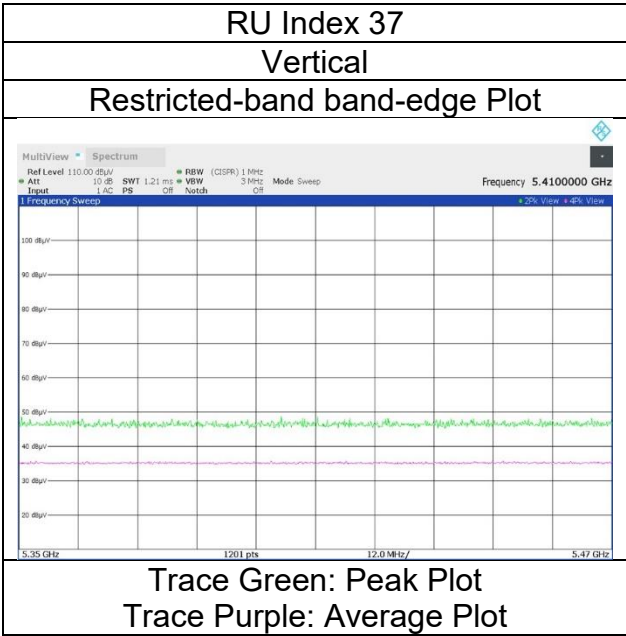
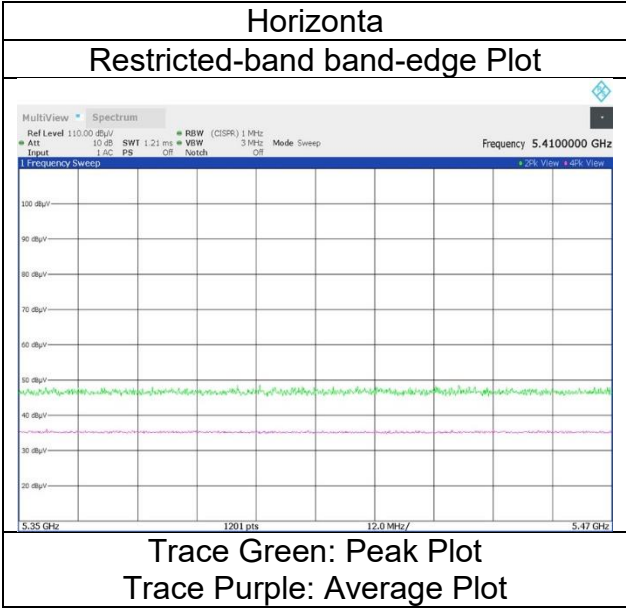
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C, 58 %RH
Engineer	Adachi Kenichi
Mode	Tx 11ax-40(OFDMA) 52-tone 5510 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
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5670 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	47.17	32.01	-25.06	-	2.10	56.22	-39.01	-27.0	12.0	187	338	-
Vert.	5725.000	PK	47.09	32.01	-25.06	-	2.10	56.14	-39.09	-27.0	12.0	148	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).

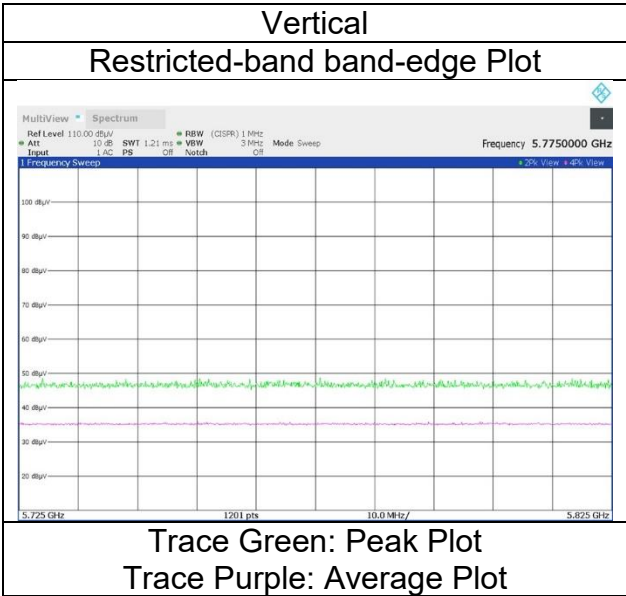
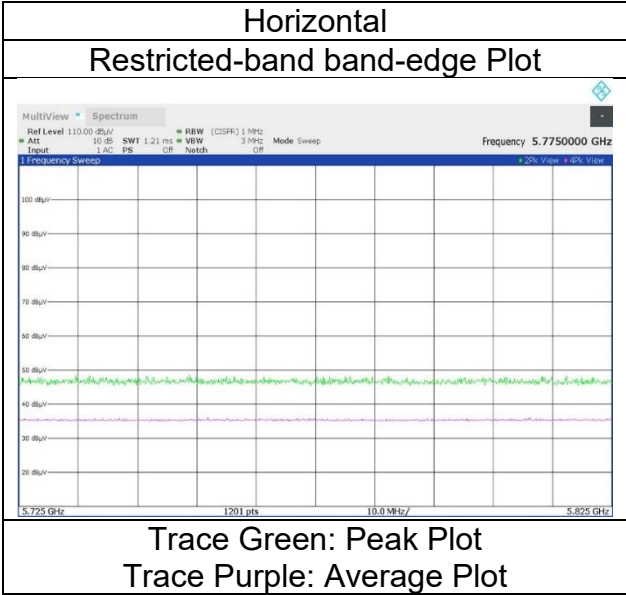
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 52-tone 5670 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
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5755 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	47.81	31.84	-25.07	-	2.10	56.68	-38.55	-27.0	11.5	227	329	-
Hori.	5700.000	PK	47.96	31.95	-25.06	-	2.10	56.95	-38.28	10.0	48.2	227	329	-
Hori.	5715.000	PK	48.11	31.98	-25.06	-	2.10	57.13	-38.10	14.2	52.2	227	329	-
Hori.	5720.000	PK	48.13	31.99	-25.05	-	2.10	57.17	-38.06	15.6	53.6	227	329	-
Hori.	5725.000	PK	50.30	32.01	-25.06	-	2.10	59.35	-35.88	27.0	62.8	227	329	-
Vert.	5650.000	PK	46.57	31.84	-25.07	-	2.10	55.44	-39.79	-27.0	12.7	170	337	-
Vert.	5700.000	PK	47.66	31.95	-25.06	-	2.10	56.65	-38.58	10.0	48.5	170	337	-
Vert.	5715.000	PK	48.32	31.98	-25.06	-	2.10	57.34	-37.89	14.2	52.0	170	337	-
Vert.	5720.000	PK	46.42	31.99	-25.05	-	2.10	55.46	-39.77	15.6	55.3	170	337	-
Vert.	5725.000	PK	52.05	32.01	-25.06	-	2.10	61.10	-34.13	27.0	61.1	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).

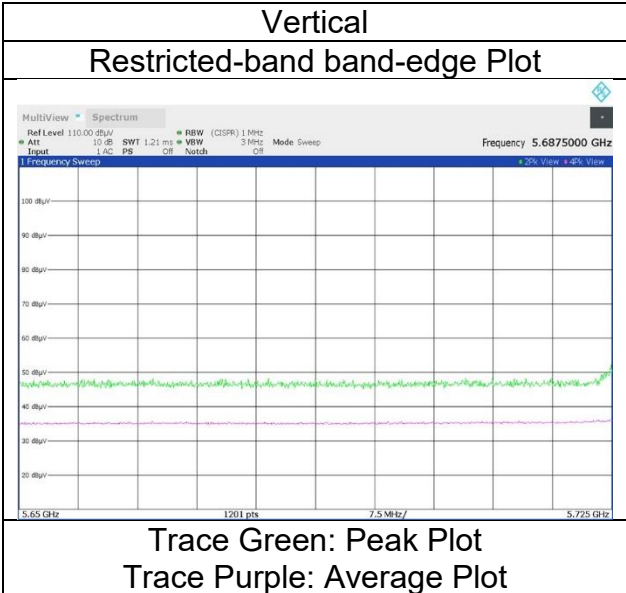
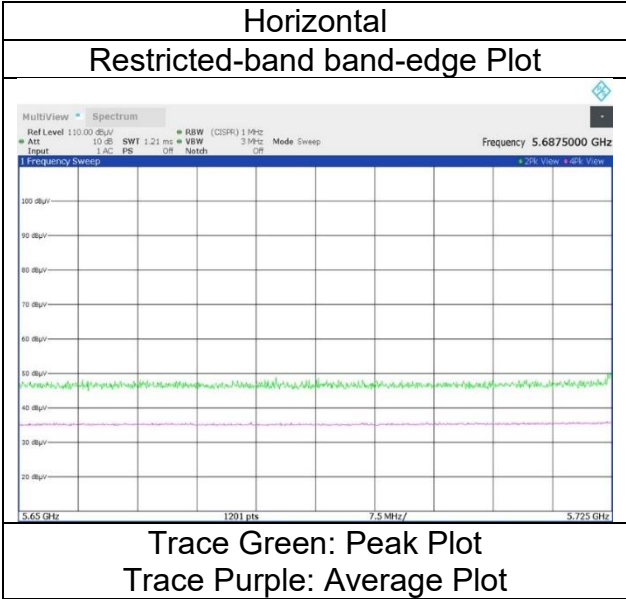
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 52-tone 5755 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
Date April 18, 2024
Temperature / Humidity 21 deg. C / 58 % RH
Engineer Kenichi Adachi
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 52-tone 5795 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	47.49	32.33	-25.01	-	2.10	56.91	-38.32	27.0	65.3	172	334	-
Hori.	5855.000	PK	47.26	32.34	-25.00	-	2.10	56.70	-38.53	15.6	54.1	172	334	-
Hori.	5860.000	PK	47.84	32.35	-25.01	-	2.10	57.28	-37.95	14.2	52.1	172	334	-
Hori.	5875.000	PK	46.55	32.38	-25.00	-	2.10	56.03	-39.20	10.0	49.2	172	334	-
Hori.	5925.000	PK	46.39	32.46	-24.99	-	2.10	55.96	-39.27	-27.0	12.2	172	334	-
Vert.	5850.000	PK	46.85	32.33	-25.01	-	2.10	56.27	-38.96	27.0	65.9	122	333	-
Vert.	5855.000	PK	46.65	32.34	-25.00	-	2.10	56.09	-39.14	15.6	54.7	122	333	-
Vert.	5860.000	PK	47.15	32.35	-25.01	-	2.10	56.59	-38.64	14.2	52.8	122	333	-
Vert.	5875.000	PK	48.31	32.38	-25.00	-	2.10	57.79	-37.44	10.0	47.4	122	333	-
Vert.	5925.000	PK	46.35	32.46	-24.99	-	2.10	55.92	-39.31	-27.0	12.3	122	333	-

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

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

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

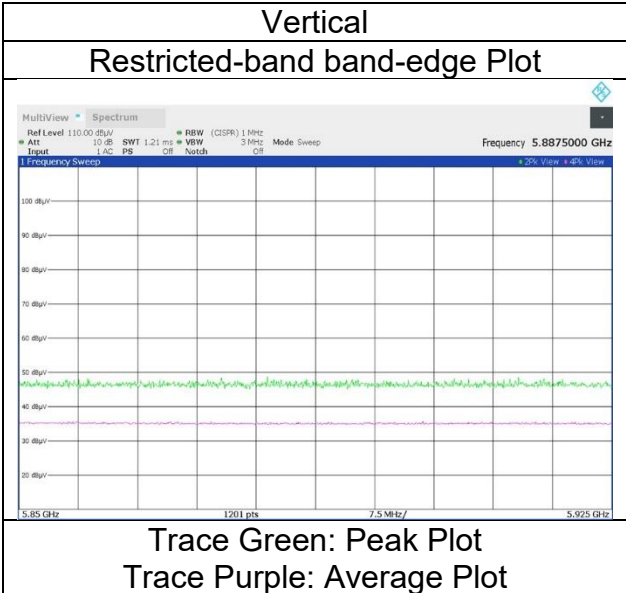
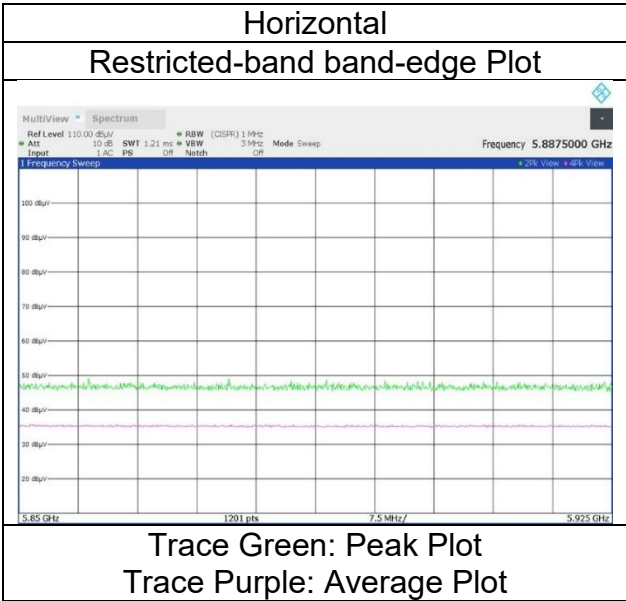
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	April 18, 2024
Temperature / Humidity	21 deg. C / 58 % RH
Engineer	Kenichi Adachi
Mode	Tx 11ax-40(OFDMA) 52-tone 5795 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
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5190 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	48.05	31.86	-25.53	-	2.10	56.48	73.9	17.4	150	38	-
Hori.	5150.000	AV	34.74	31.86	-25.53	-	2.10	43.17	53.9	10.7	150	38	VBW:300 Hz
Vert.	5150.000	PK	47.92	31.86	-25.53	-	2.10	56.35	73.9	17.5	155	352	-
Vert.	5150.000	AV	35.89	31.86	-25.53	-	2.10	44.32	53.9	9.5	155	352	VBW:300 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

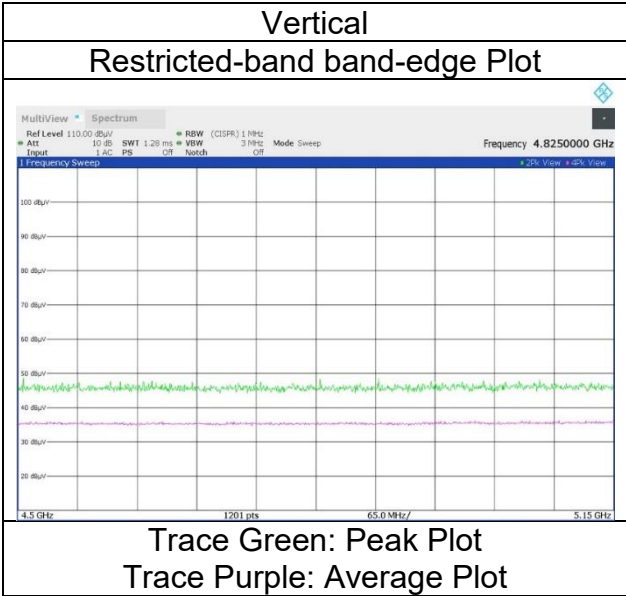
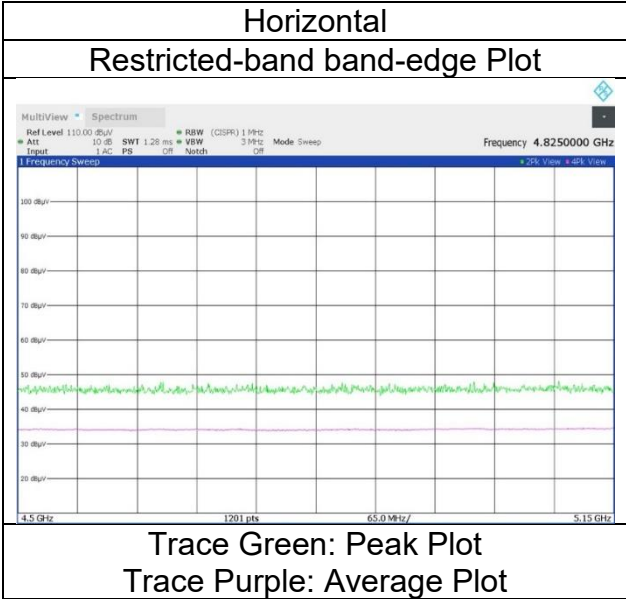
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 106-tone 5190 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.19	31.58	-25.29	-	2.10	56.58	73.9	17.3	150	38	-
Hori.	5350.000	AV	34.59	31.58	-25.29	-	2.10	42.98	53.9	10.9	150	38	VBW:300Hz
Vert.	5350.000	PK	47.68	31.58	-25.29	-	2.10	56.07	73.9	17.8	156	333	-
Vert.	5350.000	AV	35.59	31.58	-25.29	-	2.10	43.98	53.9	9.9	156	333	VBW:300Hz

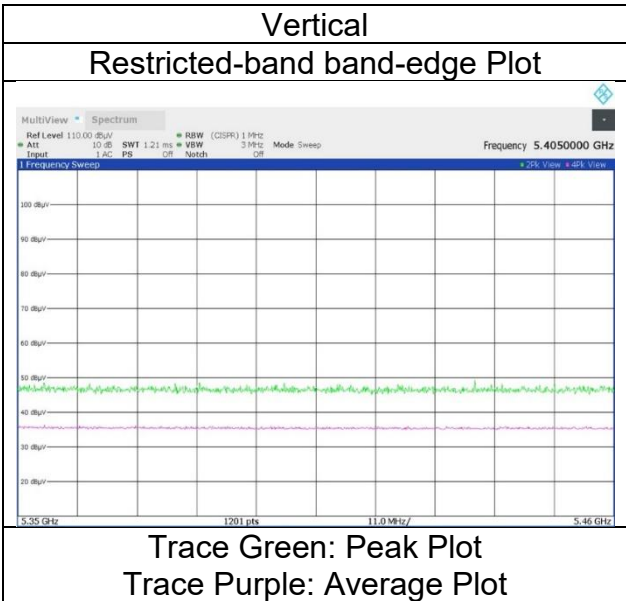
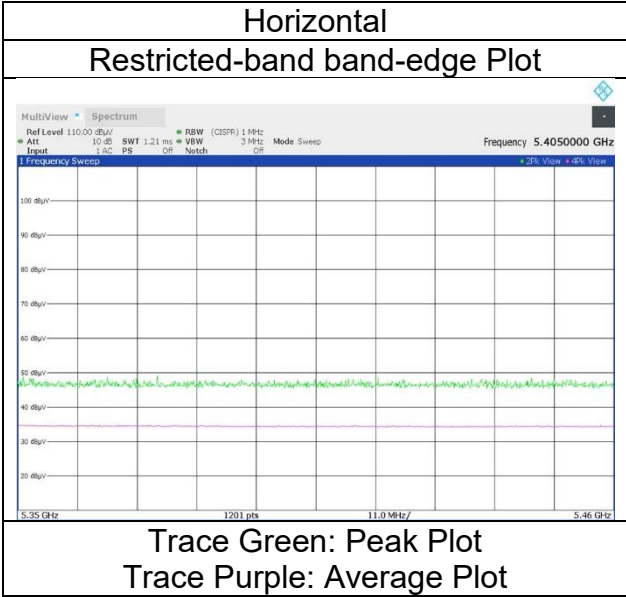
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this 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.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 106-tone 5310 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5510 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.	5460.000	PK	47.37	31.78	-25.16	-	2.10	56.09	73.9	17.8	162	36	-
Hori.	5460.000	AV	34.43	31.78	-25.16	-	2.10	43.15	53.9	10.7	162	36	VBW:300 Hz
Vert.	5460.000	PK	47.31	31.78	-25.16	-	2.10	56.03	73.9	17.8	156	335	-
Vert.	5460.000	AV	35.36	31.78	-25.16	-	2.10	44.08	53.9	9.8	156	335	VBW:300 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	46.89	31.79	-25.15	-	2.10	55.63	-39.60	-27.0	12.6	162	36	-
Vert.	5470.000	PK	47.07	31.79	-25.15	-	2.10	55.81	-39.42	-27.0	12.4	156	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).

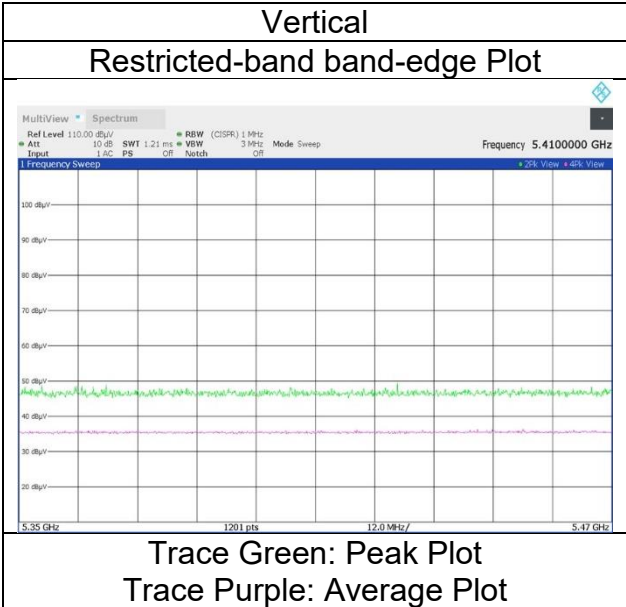
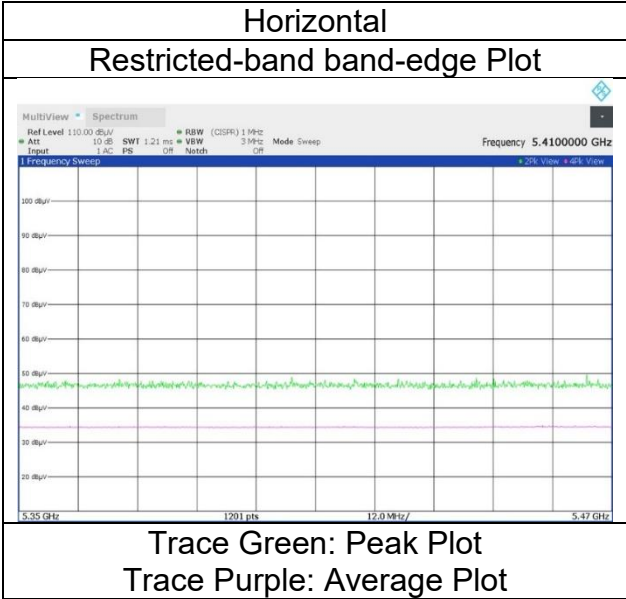
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40(OFDMA) 106-tone 5510 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
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5670 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	48.04	32.01	-25.06	-	2.10	57.09	-38.14	-27.0	11.1	191	37	-
Vert.	5725.000	PK	47.62	32.01	-25.06	-	2.10	56.67	-38.56	-27.0	11.5	196	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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

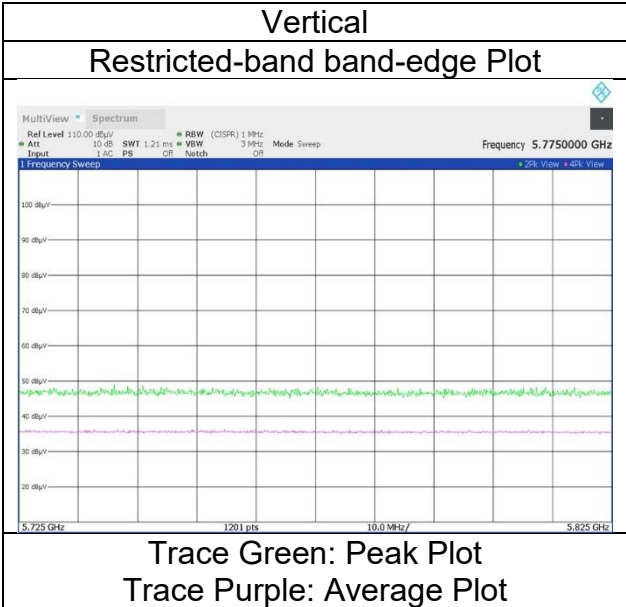
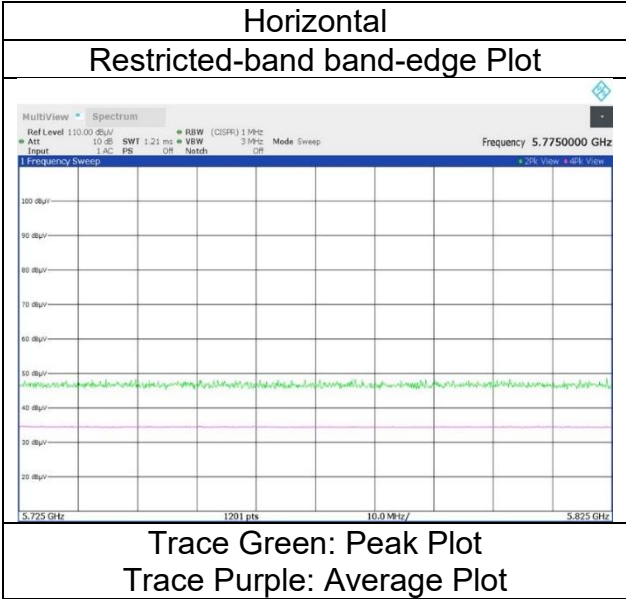
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 106-tone 5670 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 106-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.11	31.84	-25.07	-	2.10	56.98	-38.25	-27.0	11.2	201	36	-
Hori.	5700.000	PK	46.94	31.95	-25.06	-	2.10	55.93	-39.30	10.0	49.3	201	36	-
Hori.	5715.000	PK	48.12	31.98	-25.06	-	2.10	57.14	-38.09	14.2	52.2	201	36	-
Hori.	5720.000	PK	46.75	31.99	-25.05	-	2.10	55.79	-39.44	15.6	55.0	201	36	-
Hori.	5725.000	PK	48.85	32.01	-25.06	-	2.10	57.90	-37.33	27.0	64.3	201	36	-
Vert.	5650.000	PK	47.07	31.84	-25.07	-	2.10	55.94	-39.29	-27.0	12.2	170	336	-
Vert.	5700.000	PK	47.84	31.95	-25.06	-	2.10	56.83	-38.40	10.0	48.4	170	336	-
Vert.	5715.000	PK	47.14	31.98	-25.06	-	2.10	56.16	-39.07	14.2	53.2	170	336	-
Vert.	5720.000	PK	47.47	31.99	-25.05	-	2.10	56.51	-38.72	15.6	54.3	170	336	-
Vert.	5725.000	PK	50.98	32.01	-25.06	-	2.10	60.03	-35.20	27.0	62.2	170	336	-

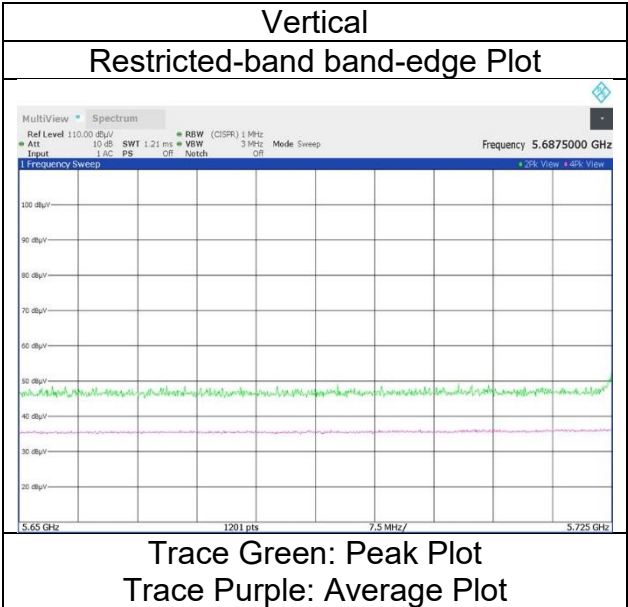
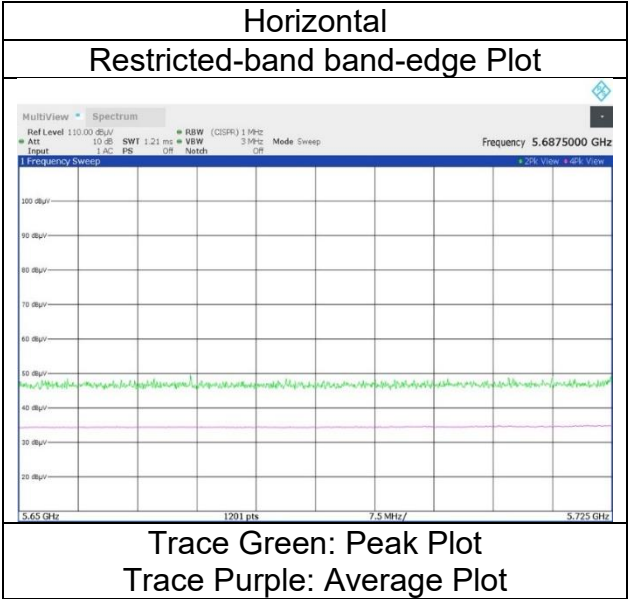
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this 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.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 106-tone 5755 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	WAC 1
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 106-tone 5795 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	47.43	32.33	-25.01	-	2.10	56.85	-38.38	27.0	65.3	135	32	-
Hori.	5855.000	PK	47.23	32.34	-25.00	-	2.10	56.67	-38.56	15.6	54.1	135	32	-
Hori.	5860.000	PK	46.47	32.35	-25.01	-	2.10	55.91	-39.32	14.2	53.5	135	32	-
Hori.	5875.000	PK	47.20	32.38	-25.00	-	2.10	56.68	-38.55	10.0	48.5	135	32	-
Hori.	5925.000	PK	46.24	32.46	-24.99	-	2.10	55.81	-39.42	-27.0	12.4	135	32	-
Vert.	5850.000	PK	46.49	32.33	-25.01	-	2.10	55.91	-39.32	27.0	66.3	174	345	-
Vert.	5855.000	PK	46.41	32.34	-25.00	-	2.10	55.85	-39.38	15.6	54.9	174	345	-
Vert.	5860.000	PK	46.95	32.35	-25.01	-	2.10	56.39	-38.84	14.2	53.0	174	345	-
Vert.	5875.000	PK	46.41	32.38	-25.00	-	2.10	55.89	-39.34	10.0	49.3	174	345	-
Vert.	5925.000	PK	46.08	32.46	-24.99	-	2.10	55.65	-39.58	-27.0	12.5	174	345	-

1 GHz - 6.4GHz : 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).

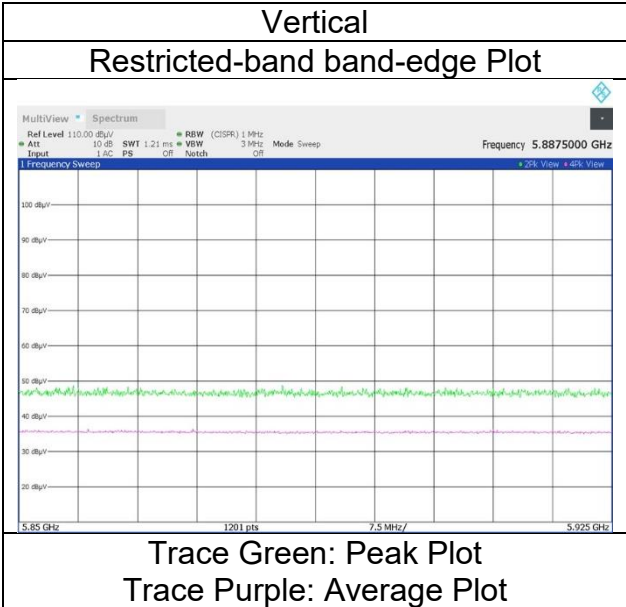
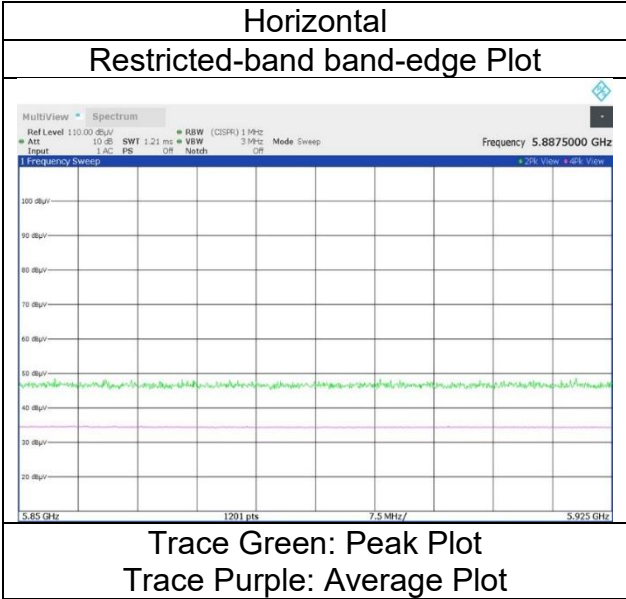
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40(OFDMA) 106-tone 5795 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
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5190 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.	5150.000	PK	47.00	31.86	-25.53	-	2.10	55.43	73.9	18.4	133	36	-
Hori.	5150.000	AV	34.99	31.86	-25.53	-	2.10	43.42	53.9	10.4	133	36	VBW:1 kHz
Vert.	5150.000	PK	47.14	31.86	-25.53	-	2.10	55.57	73.9	18.3	165	355	-
Vert.	5150.000	AV	34.78	31.86	-25.53	-	2.10	43.21	53.9	10.6	165	355	VBW:1 kHz

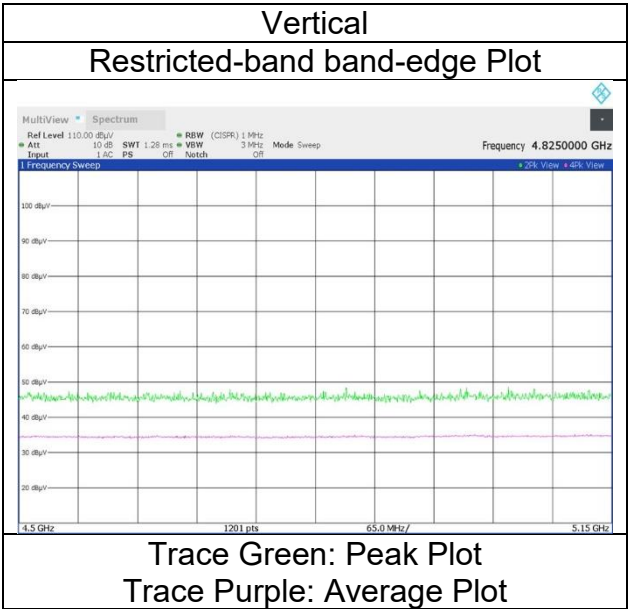
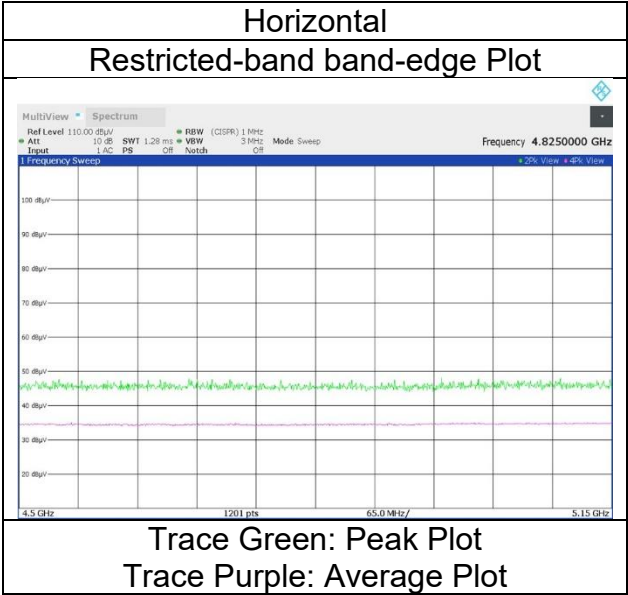
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 242-tone 5190 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5310 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.48	31.58	-25.29	-	2.10	56.87	73.9	17.0	169	39	-
Hori.	5350.000	AV	34.83	31.58	-25.29	-	2.10	43.22	53.9	10.6	169	39	VBW:1 kHz
Vert.	5350.000	PK	46.99	31.58	-25.29	-	2.10	55.38	73.9	18.5	156	350	-
Vert.	5350.000	AV	34.85	31.58	-25.29	-	2.10	43.24	53.9	10.6	156	350	VBW:1 kHz

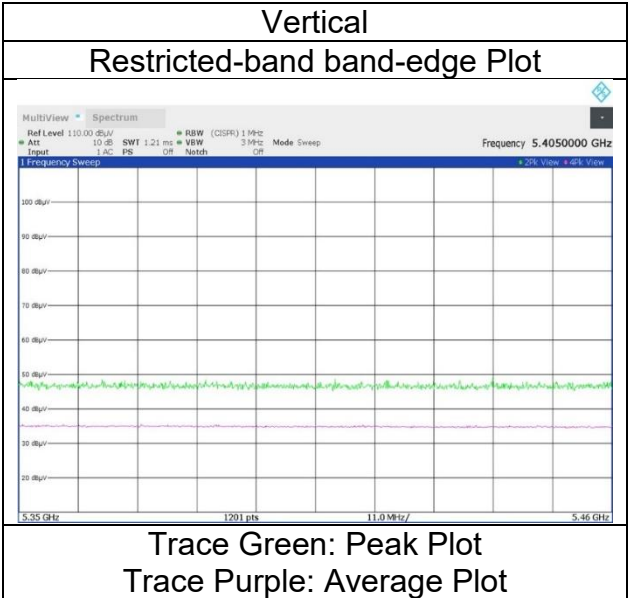
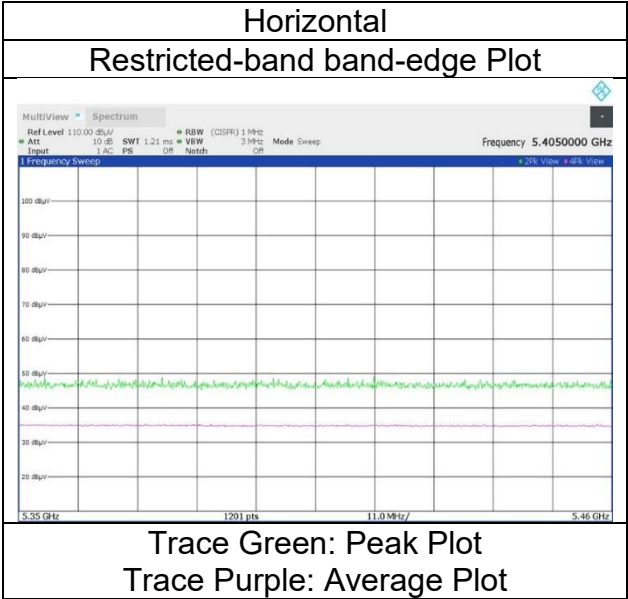
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode
Antenna type

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 242-tone 5310 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5510 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	46.88	31.78	-25.16	-	2.10	55.60	73.9	18.3	148	42	-
Hori.	5460.000	AV	34.85	31.78	-25.16	-	2.10	43.57	53.9	10.3	148	42	VBW:1 kHz
Vert.	5460.000	PK	46.68	31.78	-25.16	-	2.10	55.40	73.9	18.5	140	337	-
Vert.	5460.000	AV	34.82	31.78	-25.16	-	2.10	43.54	53.9	10.3	140	337	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	46.60	31.79	-25.15	-	2.10	55.34	-39.89	-27.0	12.8	148	42	-
Vert.	5470.000	PK	47.27	31.79	-25.15	-	2.10	56.01	-39.22	-27.0	12.2	140	337	-

1 GHz - 16.4 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).

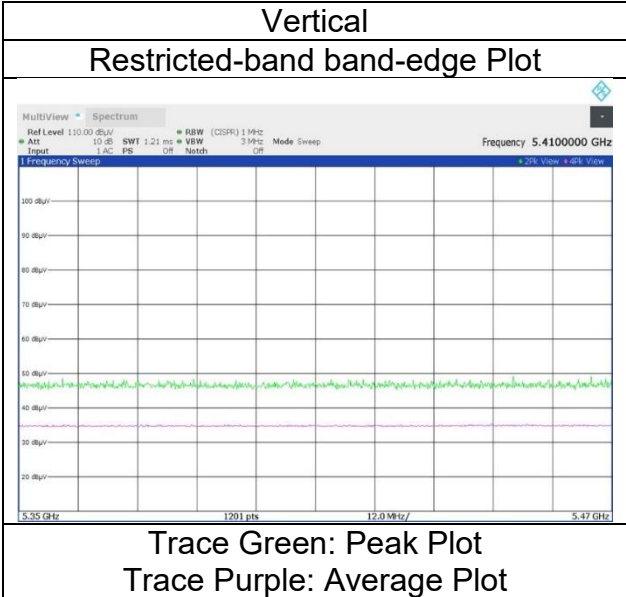
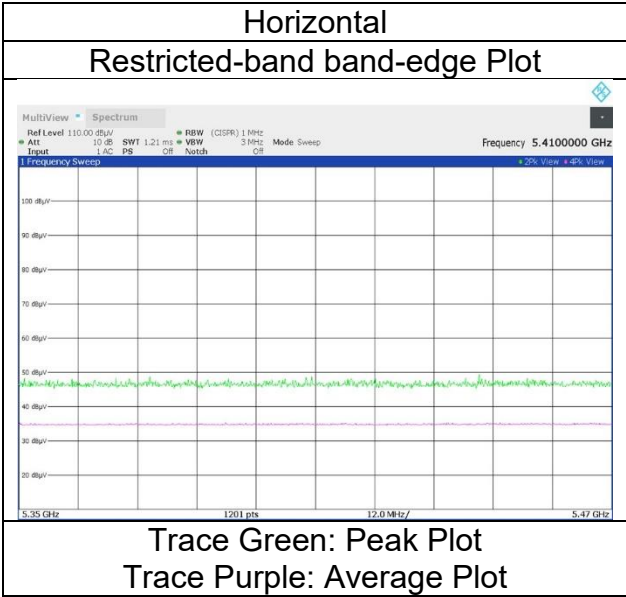
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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
Index 61

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 242-tone 5510 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.13	32.01	-25.06	-	2.10	56.18	-39.05	-27.0	12.0	158	35	-
Vert.	5725.000	PK	47.55	32.01	-25.06	-	2.10	56.60	-38.63	-27.0	11.6	150	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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

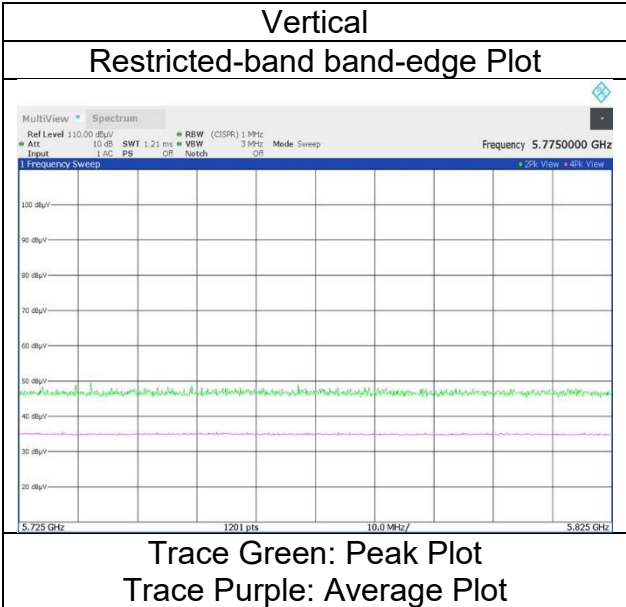
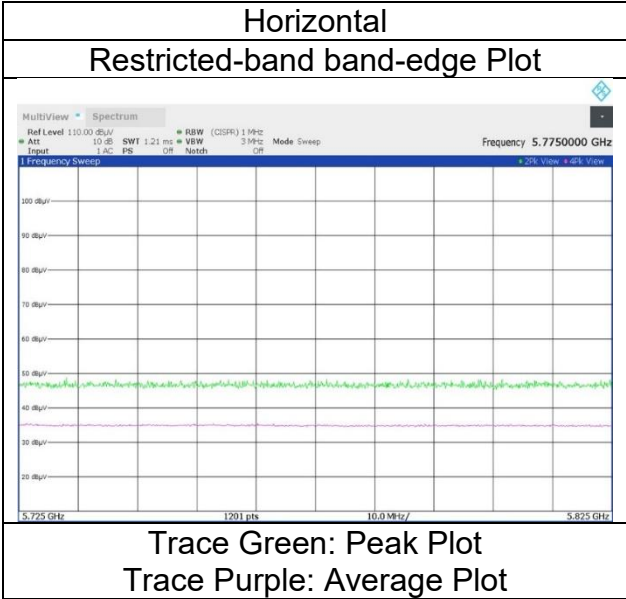
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 242-tone 5670 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5755 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	47.55	31.84	-25.07	-	2.10	56.42	-38.81	-27.0	11.8	153	29	-
Hori.	5700.000	PK	46.97	31.95	-25.06	-	2.10	55.96	-39.27	10.0	49.2	153	29	-
Hori.	5715.000	PK	46.60	31.98	-25.06	-	2.10	55.62	-39.61	14.2	53.8	153	29	-
Hori.	5720.000	PK	46.68	31.99	-25.05	-	2.10	55.72	-39.51	15.6	55.1	153	29	-
Hori.	5725.000	PK	48.14	32.01	-25.06	-	2.10	57.19	-38.04	27.0	65.0	153	29	-
Vert.	5650.000	PK	47.12	31.84	-25.07	-	2.10	55.99	-39.24	-27.0	12.2	170	343	-
Vert.	5700.000	PK	46.29	31.95	-25.06	-	2.10	55.28	-39.95	10.0	49.9	170	343	-
Vert.	5715.000	PK	47.77	31.98	-25.06	-	2.10	56.79	-38.44	14.2	52.6	170	343	-
Vert.	5720.000	PK	48.51	31.99	-25.05	-	2.10	57.55	-37.68	15.6	53.2	170	343	-
Vert.	5725.000	PK	50.94	32.01	-25.06	-	2.10	59.99	-35.24	27.0	62.2	170	343	-

1 GHz -6.4GHz : 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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

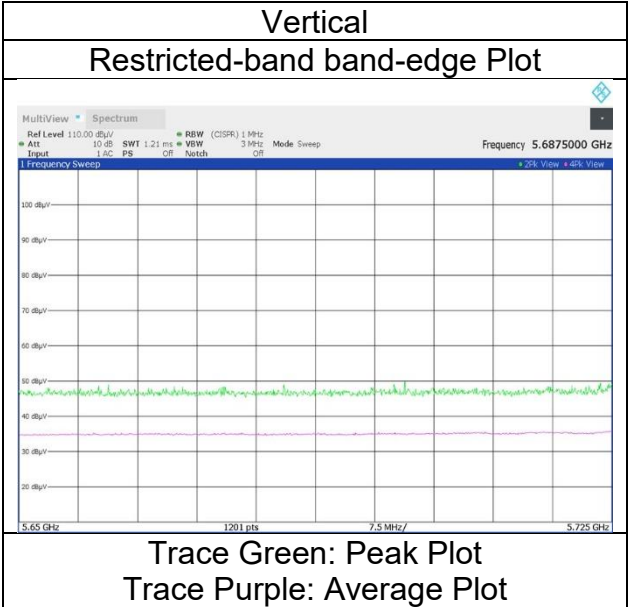
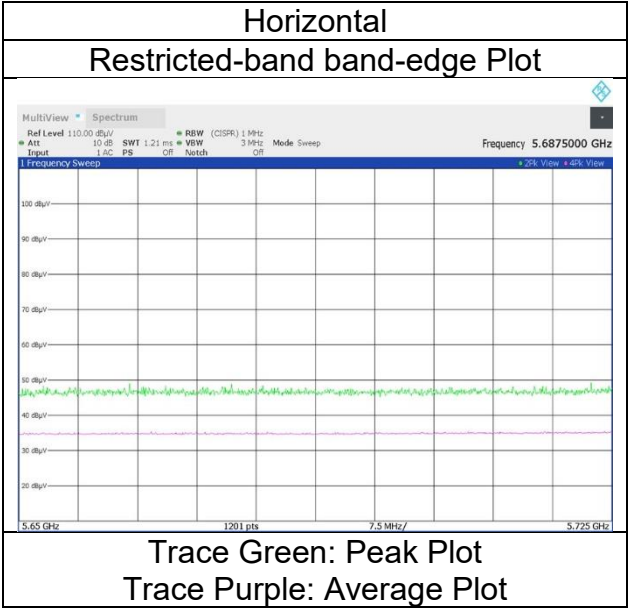
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 242-tone 5755 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 242-tone 5795 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	47.73	32.33	-25.01	-	2.10	57.15	-38.08	27.0	65.0	172	36	-
Hori.	5855.000	PK	46.60	32.34	-25.00	-	2.10	56.04	-39.19	15.6	54.7	172	36	-
Hori.	5860.000	PK	46.65	32.35	-25.01	-	2.10	56.09	-39.14	14.2	53.3	172	36	-
Hori.	5875.000	PK	46.61	32.38	-25.00	-	2.10	56.09	-39.14	10.0	49.1	172	36	-
Hori.	5925.000	PK	46.70	32.46	-24.99	-	2.10	56.27	-38.96	-27.0	11.9	172	36	-
Vert.	5850.000	PK	47.87	32.33	-25.01	-	2.10	57.29	-37.94	27.0	64.9	177	345	-
Vert.	5855.000	PK	47.85	32.34	-25.00	-	2.10	57.29	-37.94	15.6	53.5	177	345	-
Vert.	5860.000	PK	47.15	32.35	-25.01	-	2.10	56.59	-38.64	14.2	52.8	177	345	-
Vert.	5875.000	PK	46.62	32.38	-25.00	-	2.10	56.10	-39.13	10.0	49.1	177	345	-
Vert.	5925.000	PK	46.84	32.46	-24.99	-	2.10	56.41	-38.82	-27.0	11.8	177	345	-

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).

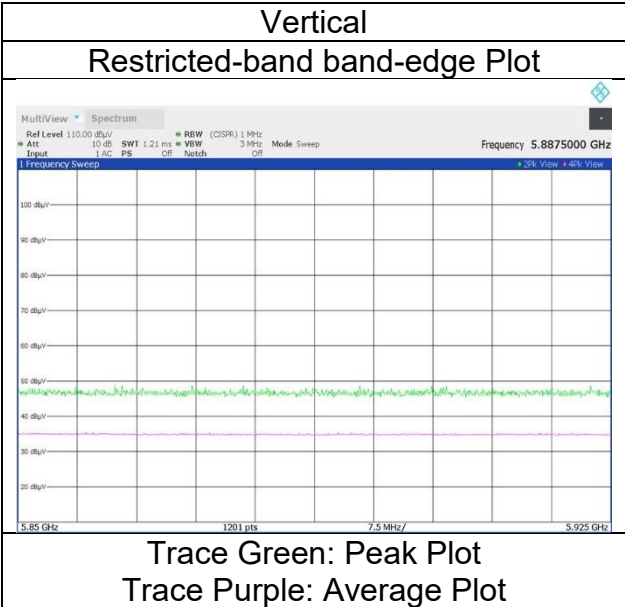
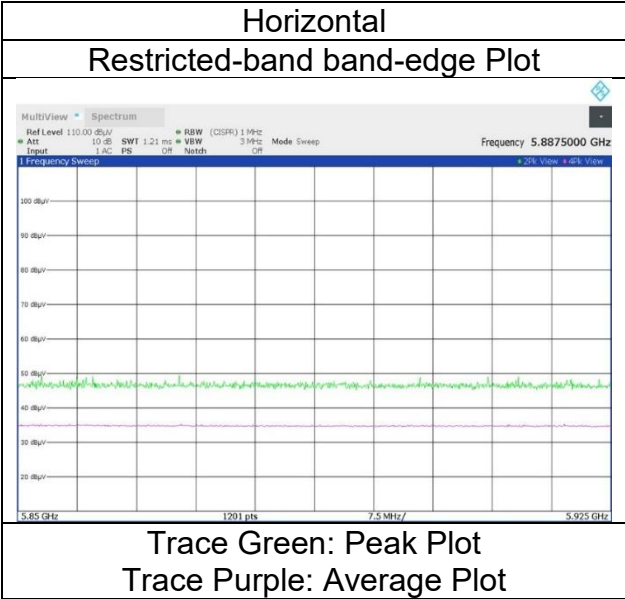
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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	WAC 1
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40(OFDMA) 242-tone 5795 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
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5190 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

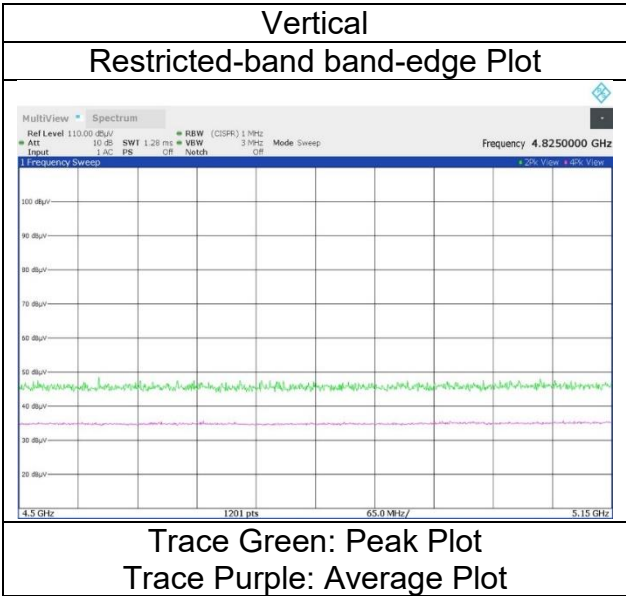
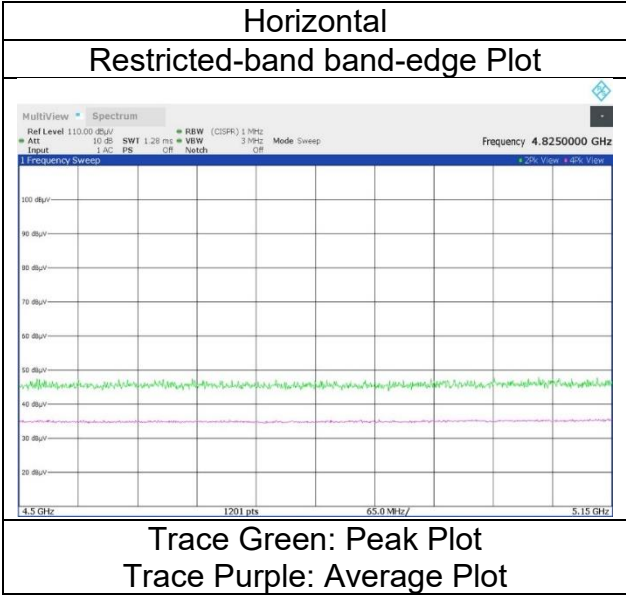
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.38	31.86	-25.53	-	2.10	55.81	73.9	18.0	189	43	-
Hori.	5150.000	AV	35.31	31.86	-25.53	-	2.10	43.74	53.9	10.1	189	43	VBW:2 kHz
Vert.	5150.000	PK	47.69	31.86	-25.53	-	2.10	56.12	73.9	17.7	166	333	-
Vert.	5150.000	AV	35.27	31.86	-25.53	-	2.10	43.70	53.9	10.2	166	333	VBW:2 kHz

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40(OFDMA) 484-tone 5190 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
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-40(OFDMA) 484-tone 5310 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	47.96	31.58	-25.29	-	2.10	56.35	73.9	17.5	138	37	-
Hori.	5350.000	AV	35.20	31.58	-25.29	-	2.10	43.59	53.9	10.3	138	37	VBW:2 kHz
Vert.	5350.000	PK	47.56	31.58	-25.29	-	2.10	55.95	73.9	17.9	165	333	-
Vert.	5350.000	AV	35.19	31.58	-25.29	-	2.10	43.58	53.9	10.3	165	333	VBW:2 kHz

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

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

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

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

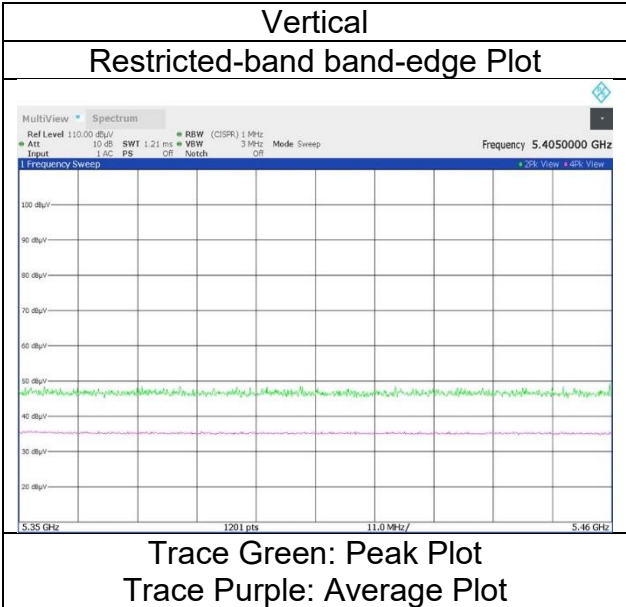
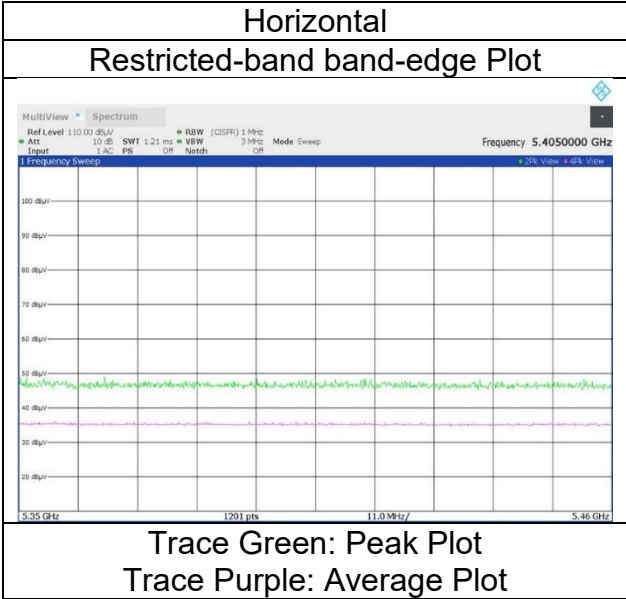
$$10 \text{ GHz} - 40 \text{ GHz} : 20 \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 484-tone 5310 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5510 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	47.12	31.78	-25.16	-	2.10	55.84	73.9	18.0	150	43	-
Hori.	5460.000	AV	35.39	31.78	-25.16	-	2.10	44.11	53.9	9.7	150	43	VBW:2 kHz
Vert.	5460.000	PK	47.09	31.78	-25.16	-	2.10	55.81	73.9	18.0	220	336	-
Vert.	5460.000	AV	35.40	31.78	-25.16	-	2.10	44.12	53.9	9.7	220	336	VBW:2 kHz

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

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

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

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

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	46.83	31.79	-25.15	-	2.10	55.57	-39.66	-27.0	12.6	150	43	-
Vert.	5470.000	PK	47.37	31.79	-25.15	-	2.10	56.11	-39.12	-27.0	12.1	220	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).

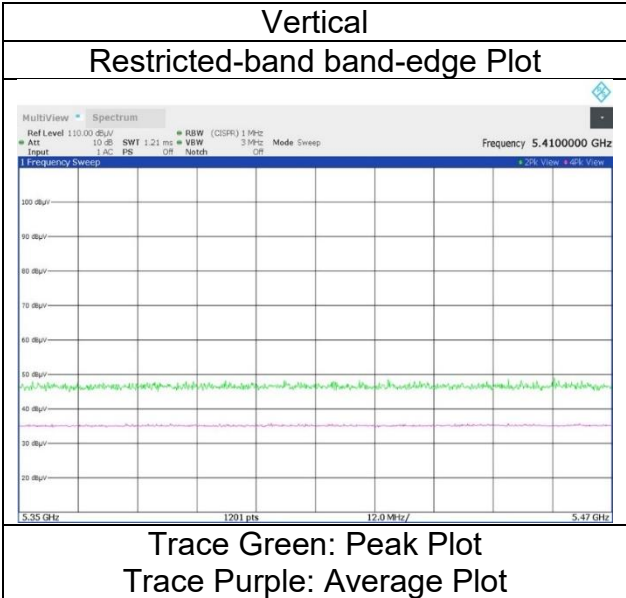
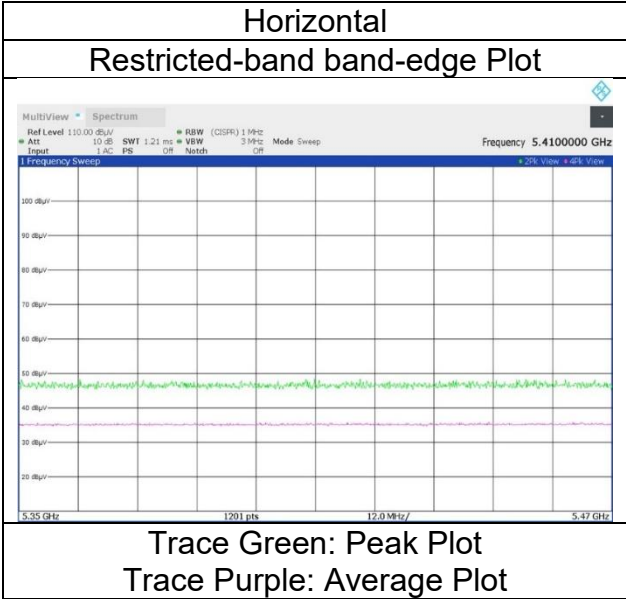
Distance factor : 1 GHz - 10 GHz : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC 1
Date	April 24, 2024
Temperature / Humidity	20 deg. C / 65 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-40(OFDMA) 484-tone 5510 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
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5670 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.59	32.01	-25.06	-	2.10	56.64	-38.59	-27.0	11.5	144	35	-
Vert.	5725.000	PK	48.19	32.01	-25.06	-	2.10	57.24	-37.99	-27.0	10.9	159	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).

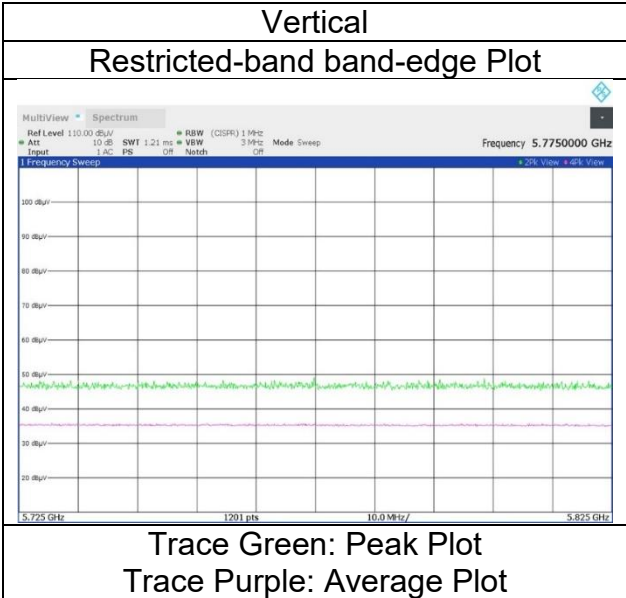
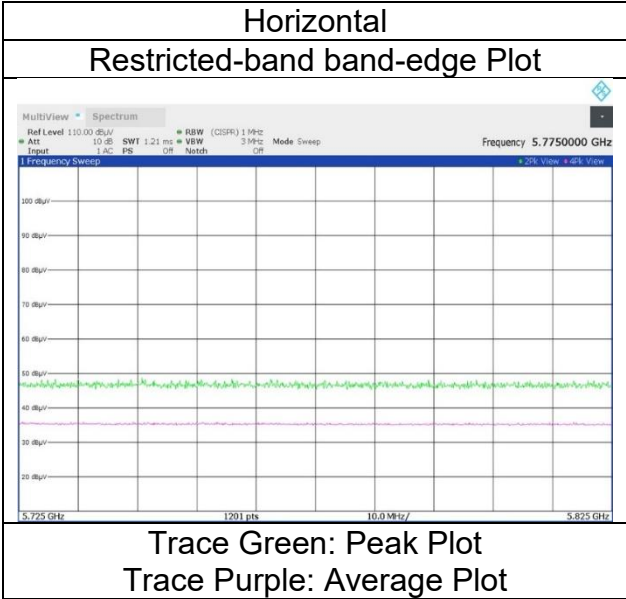
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 484-tone 5670 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5755 MHz
Antenna type 5G_CH 0: monopole 5G_CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.79	31.84	-25.07	-	2.10	55.66	-39.57	-27.0	12.5	156	30	-
Hori.	5700.000	PK	47.38	31.95	-25.06	-	2.10	56.37	-38.86	10.0	48.8	156	30	-
Hori.	5715.000	PK	47.80	31.98	-25.06	-	2.10	56.82	-38.41	14.2	52.6	156	30	-
Hori.	5720.000	PK	46.58	31.99	-25.05	-	2.10	55.62	-39.61	15.6	55.2	156	30	-
Hori.	5725.000	PK	46.92	32.01	-25.06	-	2.10	55.97	-39.26	27.0	66.2	156	30	-
Vert.	5650.000	PK	46.90	31.84	-25.07	-	2.10	55.77	-39.46	-27.0	12.4	132	344	-
Vert.	5700.000	PK	46.61	31.95	-25.06	-	2.10	55.60	-39.63	10.0	49.6	132	344	-
Vert.	5715.000	PK	46.32	31.98	-25.06	-	2.10	55.34	-39.89	14.2	54.0	132	344	-
Vert.	5720.000	PK	47.92	31.99	-25.05	-	2.10	56.96	-38.27	15.6	53.8	132	344	-
Vert.	5725.000	PK	48.62	32.01	-25.06	-	2.10	57.67	-37.56	27.0	64.5	132	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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

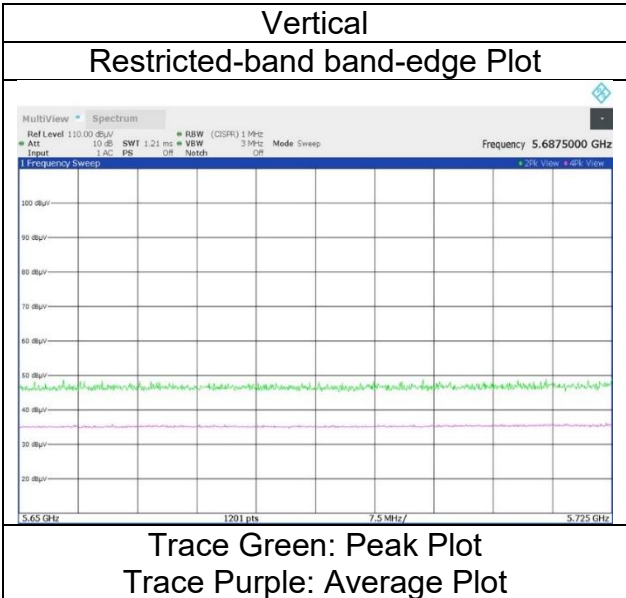
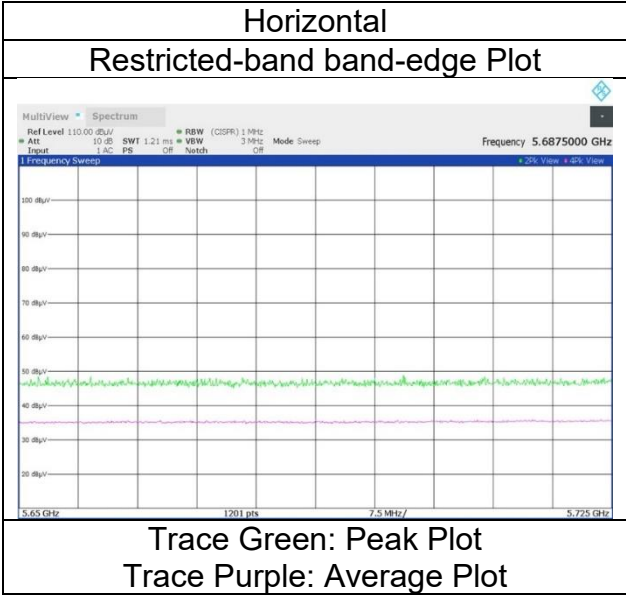
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 484-tone 5755 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 WAC 1
Date April 24, 2024
Temperature / Humidity 20 deg. C / 65 % RH
Engineer Yosuke Murakami
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40(OFDMA) 484-tone 5795 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	47.33	32.33	-25.01	-	2.10	56.75	-38.48	27.0	65.4	168	35	-
Hori.	5855.000	PK	47.06	32.34	-25.00	-	2.10	56.50	-38.73	15.6	54.3	168	35	-
Hori.	5860.000	PK	47.03	32.35	-25.01	-	2.10	56.47	-38.76	14.2	52.9	168	35	-
Hori.	5875.000	PK	47.40	32.38	-25.00	-	2.10	56.88	-38.35	10.0	48.3	168	35	-
Hori.	5925.000	PK	47.22	32.46	-24.99	-	2.10	56.79	-38.44	-27.0	11.4	168	35	-
Vert.	5850.000	PK	47.20	32.33	-25.01	-	2.10	56.62	-38.61	27.0	65.6	139	343	-
Vert.	5855.000	PK	46.76	32.34	-25.00	-	2.10	56.20	-39.03	15.6	54.6	139	343	-
Vert.	5860.000	PK	47.17	32.35	-25.01	-	2.10	56.61	-38.62	14.2	52.8	139	343	-
Vert.	5875.000	PK	47.34	32.38	-25.00	-	2.10	56.82	-38.41	10.0	48.4	139	343	-
Vert.	5925.000	PK	46.99	32.46	-24.99	-	2.10	56.56	-38.67	-27.0	11.6	139	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 : $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

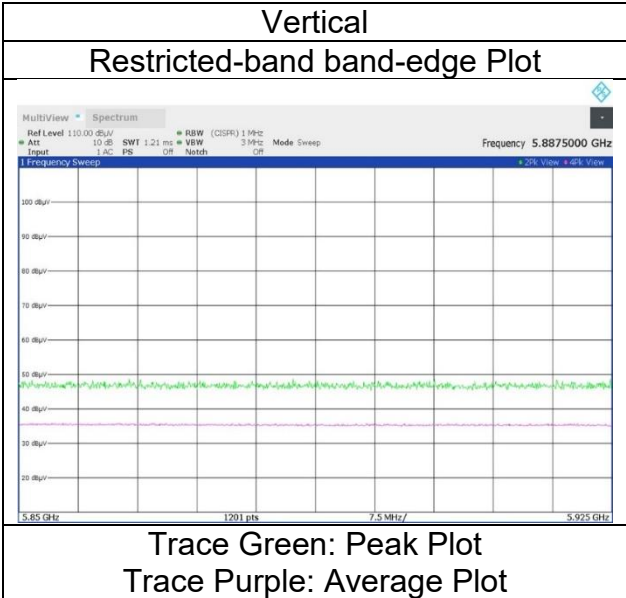
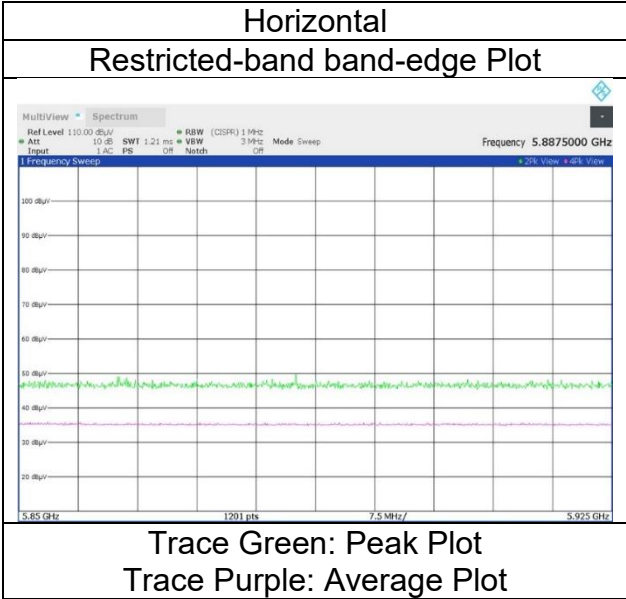
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

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

Shonan EMC Lab.
WAC 1
April 24, 2024
20 deg. C / 65 % RH
Yosuke Murakami
Tx 11ax-40(OFDMA) 484-tone 5795 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	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 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	45.75	32.23	17.20	38.73	2.10	58.55	73.9	15.3	187	39	-
Hori.	15630.000	PK	46.58	39.52	11.62	40.54	-9.54	47.64	73.9	26.2	150	0	-
Hori.	5150.000	AV	33.65	32.23	17.20	38.73	2.10	46.45	53.9	7.4	187	39	VBW:200 Hz
Hori.	15630.000	AV	34.91	39.52	11.62	40.54	-9.54	35.97	53.9	17.9	150	0	VBW:200 Hz, Floor noise
Vert.	5150.000	PK	46.83	32.23	17.20	38.73	2.10	59.63	73.9	14.2	109	340	-
Vert.	15630.000	PK	46.43	39.52	11.62	40.54	-9.54	47.49	73.9	26.4	150	0	-
Vert.	5150.000	AV	33.97	32.23	17.20	38.73	2.10	46.77	53.9	7.1	109	340	VBW:200 Hz
Vert.	15630.000	AV	35.01	39.52	11.62	40.54	-9.54	36.07	53.9	17.8	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 : 20log (3.82 m / 3.0 m) = 2.10 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6946.663	PK	52.57	35.37	-33.56	-	2.10	56.48	-38.75	-27.0	11.7	149	85	-
Hori.	10420.000	PK	51.34	36.39	9.38	42.84	-9.54	44.73	-50.50	-27.0	23.5	199	216	-
Vert.	6946.292	PK	53.12	35.37	-33.34	-	2.10	57.25	-37.98	-27.0	10.9	100	359	-
Vert.	10420.000	PK	51.31	36.39	9.38	42.84	-9.54	44.70	-50.53	-27.0	23.5	111	256	-

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 : 20log (3.82 m / 3.0 m) = 2.10 dB

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