

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5510 MHz, Ant 0 + Ant 2

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	39.61	32.46	-26.65	-	2.37	47.79	53.9	6.1	308	125	VBW:20 kHz
Vert.	5460.000	AV	39.55	32.46	-26.65	-	2.37	47.73	53.9	6.1	225	121	VBW:20 kHz

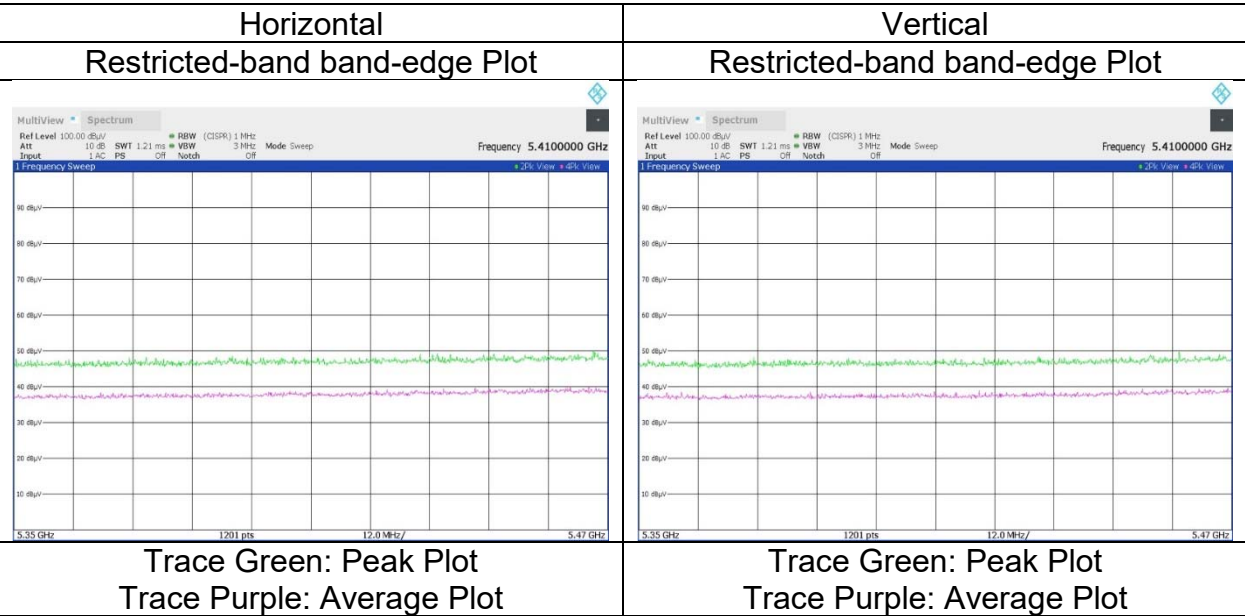
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 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.	5460.000	PK	49.03	32.46	-26.65	-	2.37	57.21	-38.02	-27.0	11.0	308	125	-
Hori.	5470.000	PK	48.94	32.49	-26.64	-	2.37	57.16	-38.07	-27.0	11.0	308	125	-
Vert.	5460.000	PK	48.80	32.46	-26.65	-	2.37	56.98	-38.25	-27.0	11.2	225	121	-
Vert.	5470.000	PK	48.57	32.49	-26.64	-	2.37	56.79	-38.44	-27.0	11.4	225	121	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

Radiated Spurious Emission

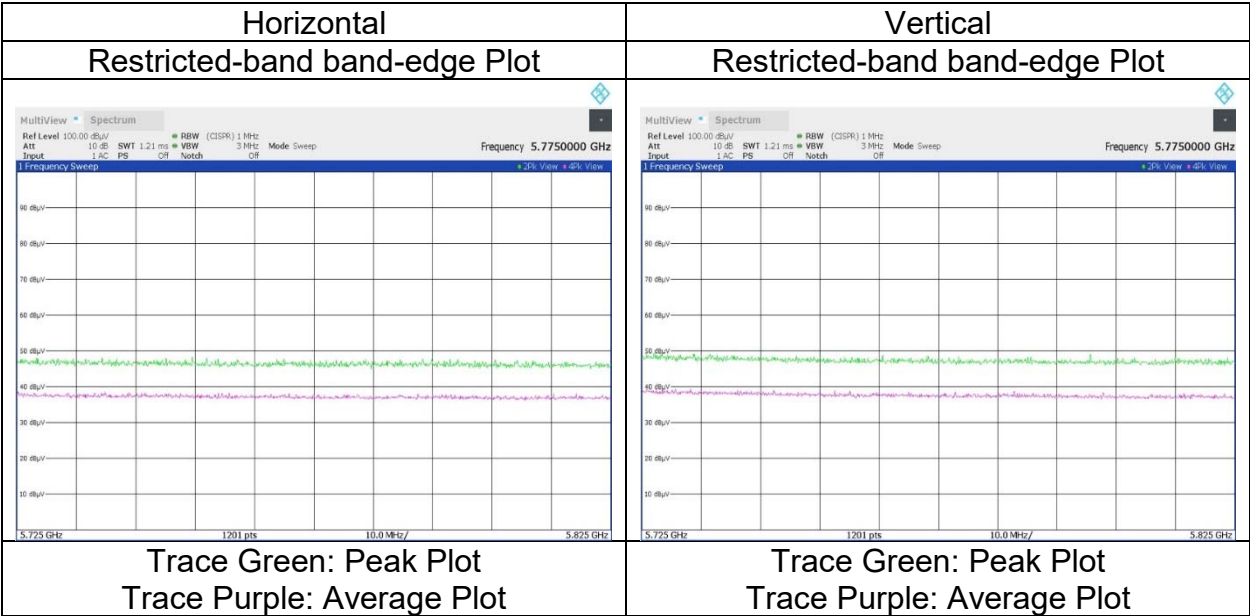
Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5670 MHz, Ant 0 + Ant 2

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.76	33.03	-26.55	-	2.37	56.61	-38.62	-27.0	11.6	235	126	-
Vert.	5725.000	PK	48.78	33.03	-26.55	-	2.37	57.63	-37.60	-27.0	10.6	162	116	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

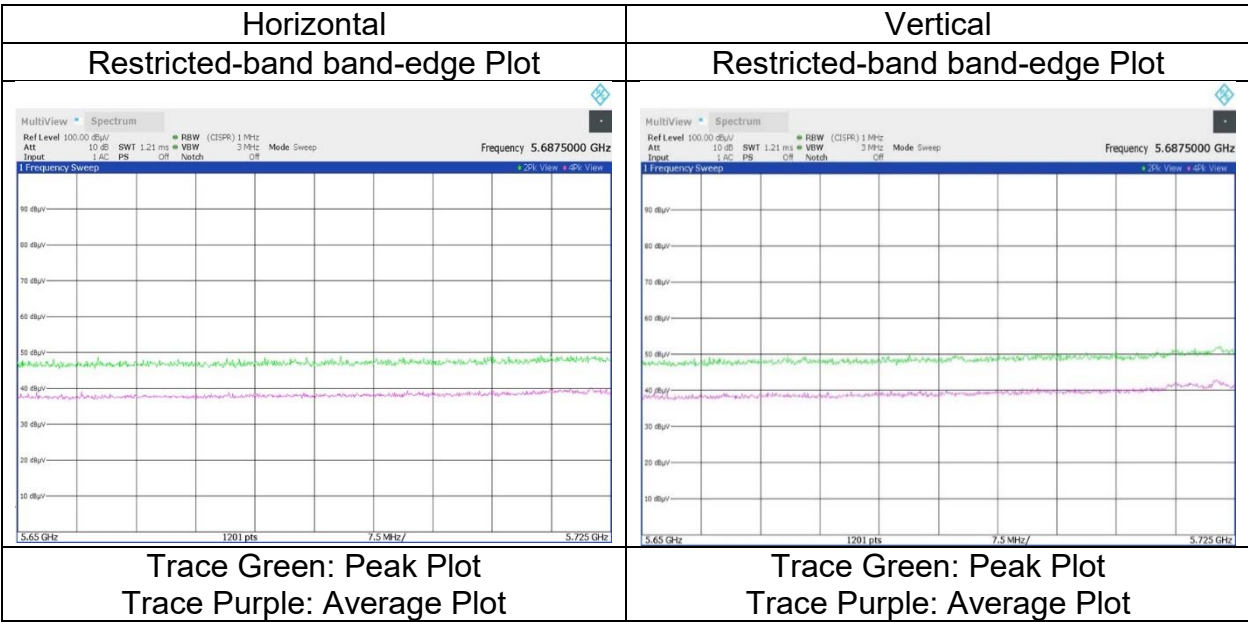
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5755 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.88	32.96	-26.58	-	2.37	56.63	-38.60	-27.0	11.6	215	124	-
Hori.	5700.000	PK	48.23	33.00	-26.56	-	2.37	57.04	-38.19	10.0	48.1	215	124	-
Hori.	5717.475	PK	49.05	33.02	-26.55	-	2.37	57.89	-37.34	14.9	52.2	215	124	-
Hori.	5720.000	PK	49.12	33.02	-26.55	-	2.37	57.96	-37.27	15.6	52.8	215	124	-
Hori.	5722.884	PK	49.27	33.02	-26.55	-	2.37	58.11	-37.12	22.2	59.3	215	124	-
Hori.	5725.000	PK	48.89	33.03	-26.55	-	2.37	57.74	-37.49	27.0	64.4	215	124	-
Vert.	5650.000	PK	48.08	32.96	-26.58	-	2.37	56.83	-38.40	-27.0	11.4	151	124	-
Vert.	5700.000	PK	49.67	33.00	-26.56	-	2.37	58.48	-36.75	10.0	46.7	151	124	-
Vert.	5717.482	PK	51.24	33.02	-26.55	-	2.37	60.08	-35.15	14.9	50.0	151	124	-
Vert.	5720.000	PK	50.71	33.02	-26.55	-	2.37	59.55	-35.68	15.6	51.2	151	124	-
Vert.	5722.891	PK	52.61	33.02	-26.55	-	2.37	61.45	-33.78	22.2	55.9	151	124	-
Vert.	5725.000	PK	51.01	33.03	-26.55	-	2.37	59.86	-35.37	27.0	62.3	151	124	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

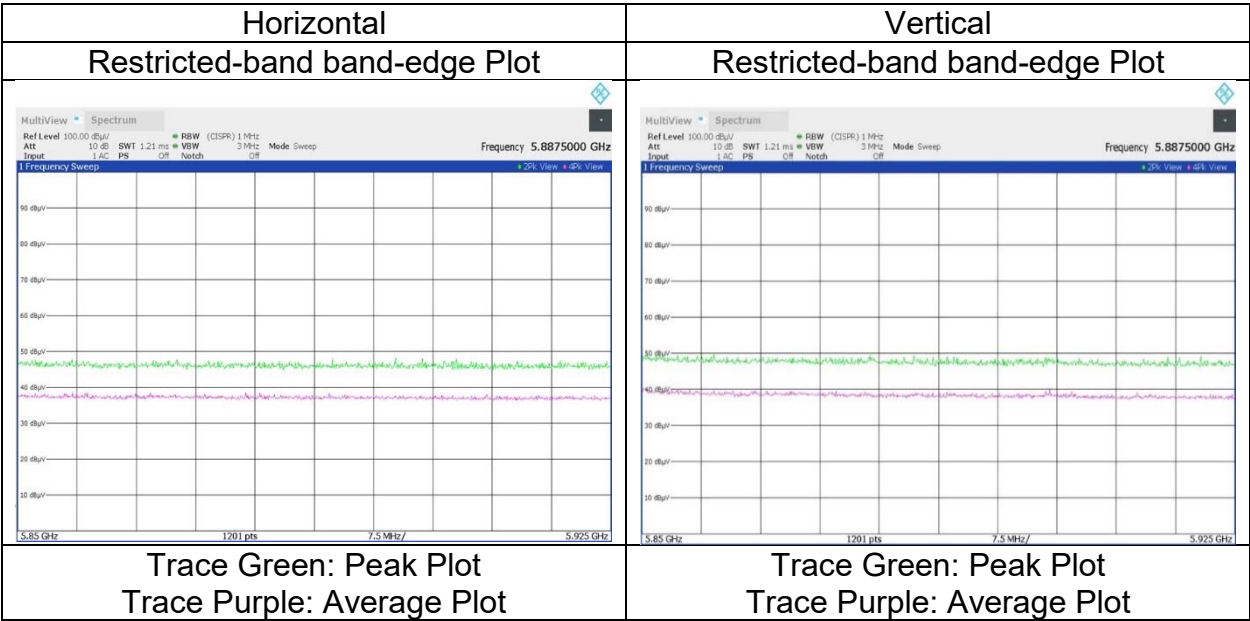
Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 15, 2024
Temperature / Humidity 21 deg. C / 32 % RH
Engineer Yusuke Tanikawara
(1 GHz to 6.4 GHz)
Mode Tx 11ax-40 (OFDMA)(SDM) 484-tone RU 5795 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	47.56	33.13	-26.51	-	2.37	56.55	-38.68	27.0	65.6	203	125	-
Hori.	5855.000	PK	47.42	33.14	-26.51	-	2.37	56.42	-38.81	15.6	54.4	203	125	-
Hori.	5875.000	PK	47.22	33.17	-26.51	-	2.37	56.25	-38.98	10.0	48.9	203	125	-
Hori.	5925.000	PK	47.01	33.27	-26.50	-	2.37	56.15	-39.08	-27.0	12.0	203	125	-
Vert.	5850.000	PK	49.56	33.13	-26.51	-	2.37	58.55	-36.68	27.0	63.6	151	121	-
Vert.	5855.000	PK	48.96	33.14	-26.51	-	2.37	57.96	-37.27	15.6	52.8	151	121	-
Vert.	5875.000	PK	48.32	33.17	-26.51	-	2.37	57.35	-37.88	10.0	47.8	151	121	-
Vert.	5925.000	PK	47.84	33.27	-26.50	-	2.37	56.98	-38.25	-27.0	11.2	151	121	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 22, 2024
20 deg. C / 44 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5210 MHz, Ant 0 + Ant 2

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

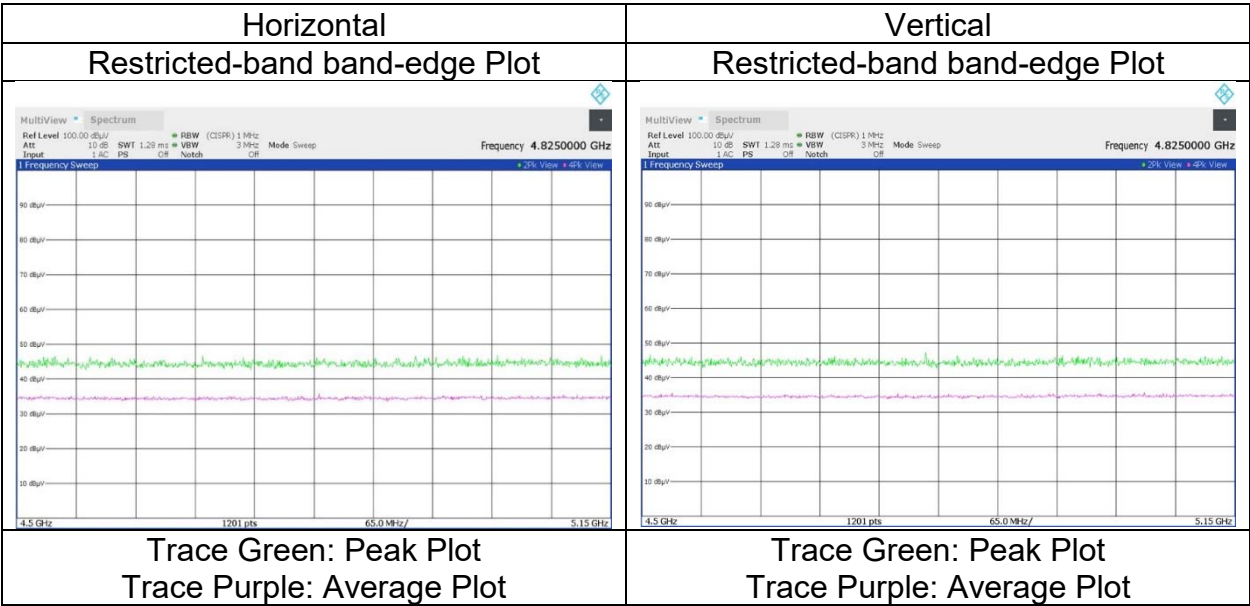
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.74	32.17	-26.97	-	2.37	56.31	73.9	17.5	153	107	-
Hori.	5150.000	AV	35.99	32.17	-26.97	-	2.37	43.56	53.9	10.3	153	107	VBW:5 kHz
Vert.	5150.000	PK	48.14	32.17	-26.97	-	2.37	55.71	73.9	18.1	285	102	-
Vert.	5150.000	AV	35.63	32.17	-26.97	-	2.37	43.20	53.9	10.7	285	102	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

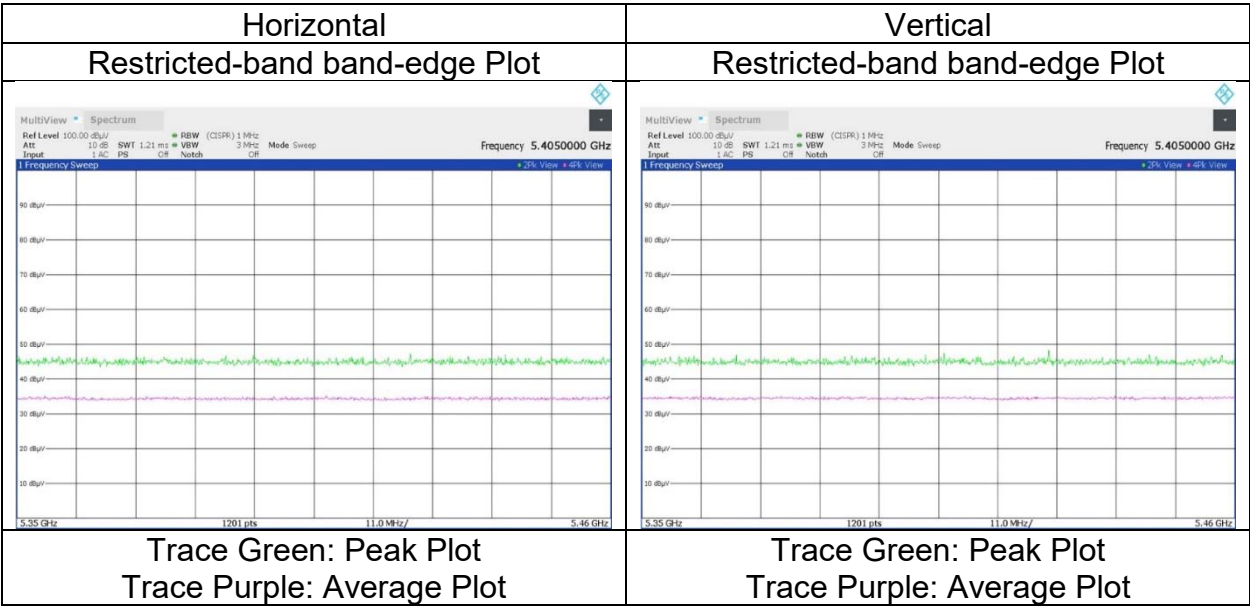
Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 22, 2024
20 deg. C / 44 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5290 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.03	32.16	-26.77	-	2.37	54.79	73.9	19.1	102	67	-
Hori.	5350.000	AV	35.02	32.16	-26.77	-	2.37	42.78	53.9	11.1	102	67	VBW:5 kHz
Vert.	5350.000	PK	47.71	32.16	-26.77	-	2.37	55.47	73.9	18.4	137	113	-
Vert.	5350.000	AV	35.36	32.16	-26.77	-	2.37	43.12	53.9	10.7	137	113	VBW:5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 22, 2024
Temperature / Humidity 20 deg. C / 44 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5530 MHz, Ant 0 + Ant 2

RU 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	AV	35.44	32.46	-26.65	-	2.37	43.62	53.9	10.2	136	109	VBW:5 kHz
Vert.	5460.000	AV	35.40	32.46	-26.65	-	2.37	43.58	53.9	10.3	244	111	VBW:5 kHz

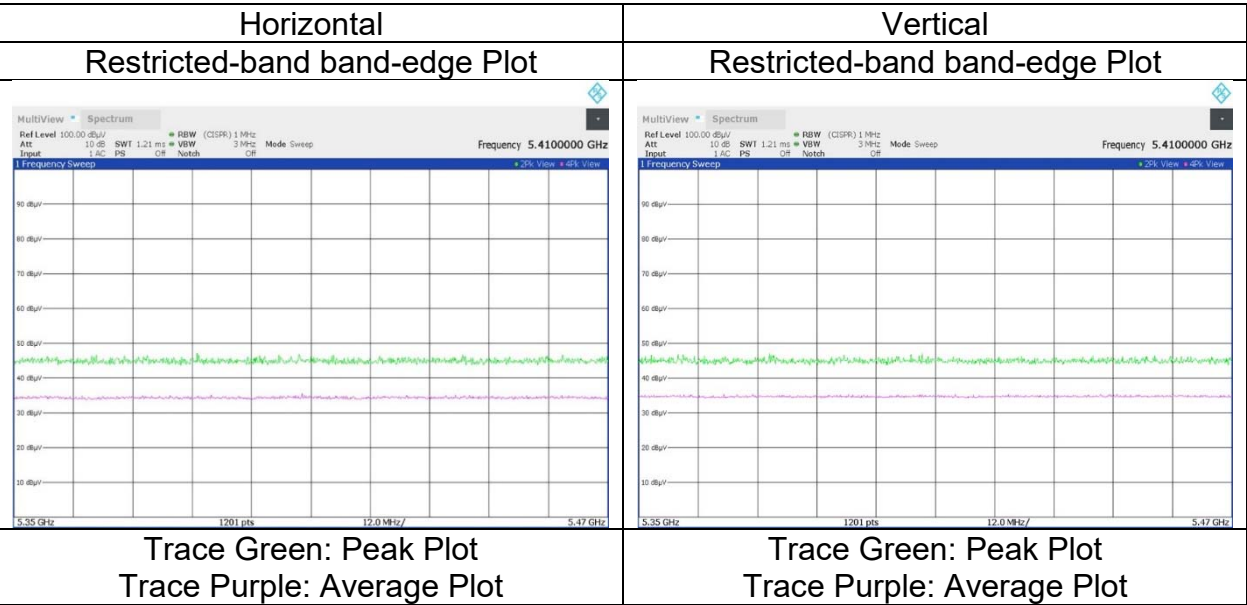
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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.	5460.000	PK	47.49	32.46	-26.65	-	2.37	55.67	-39.56	-27.0	12.5	136	109	-
Hori.	5470.000	PK	47.62	32.49	-26.64	-	2.37	55.84	-39.39	-27.0	12.3	136	109	-
Vert.	5460.000	PK	47.54	32.46	-26.65	-	2.37	55.72	-39.51	-27.0	12.5	244	111	-
Vert.	5470.000	PK	47.50	32.49	-26.64	-	2.37	55.72	-39.51	-27.0	12.5	244	111	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Result (EIRP [dBm]) = $10 * \log((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6) * \text{Distance : 3 [m]})^{\wedge}2 / 30 * 10^{\wedge}3)$
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



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

Radiated Spurious Emission

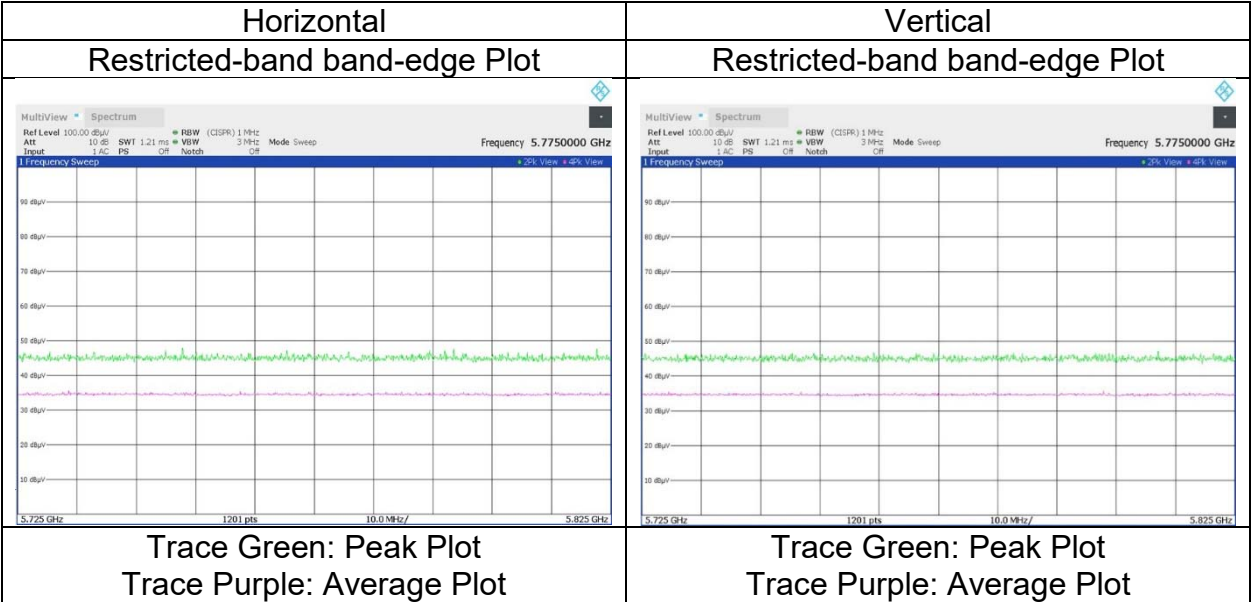
Test place
Semi Anechoic Chamber
Date
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Shonan EMC Lab.
WAC2
January 22, 2024
20 deg. C / 44 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5530 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.57	33.03	-28.99	-	2.37	53.98	-41.25	-27.0	14.2	240	127	-
Vert.	5725.000	PK	47.74	33.03	-28.99	-	2.37	54.15	-41.08	-27.0	14.0	223	114	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 22, 2024
Temperature / Humidity 20 deg. C / 44 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5775 MHz, Ant 0 + Ant 2

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

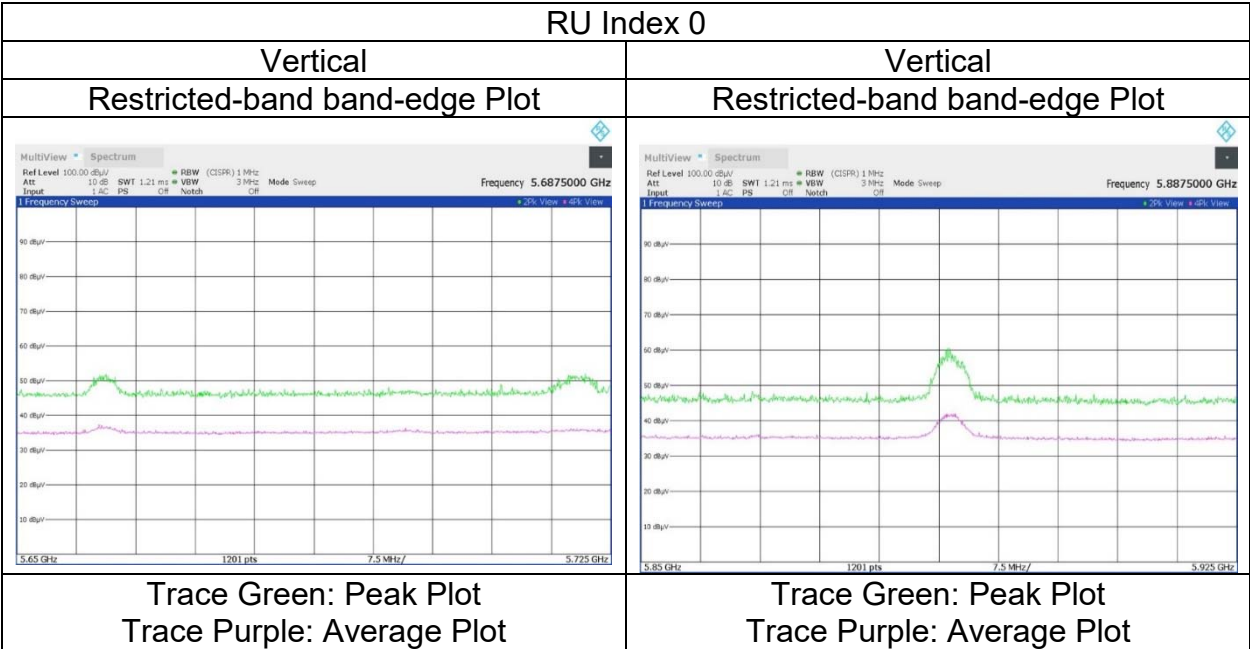
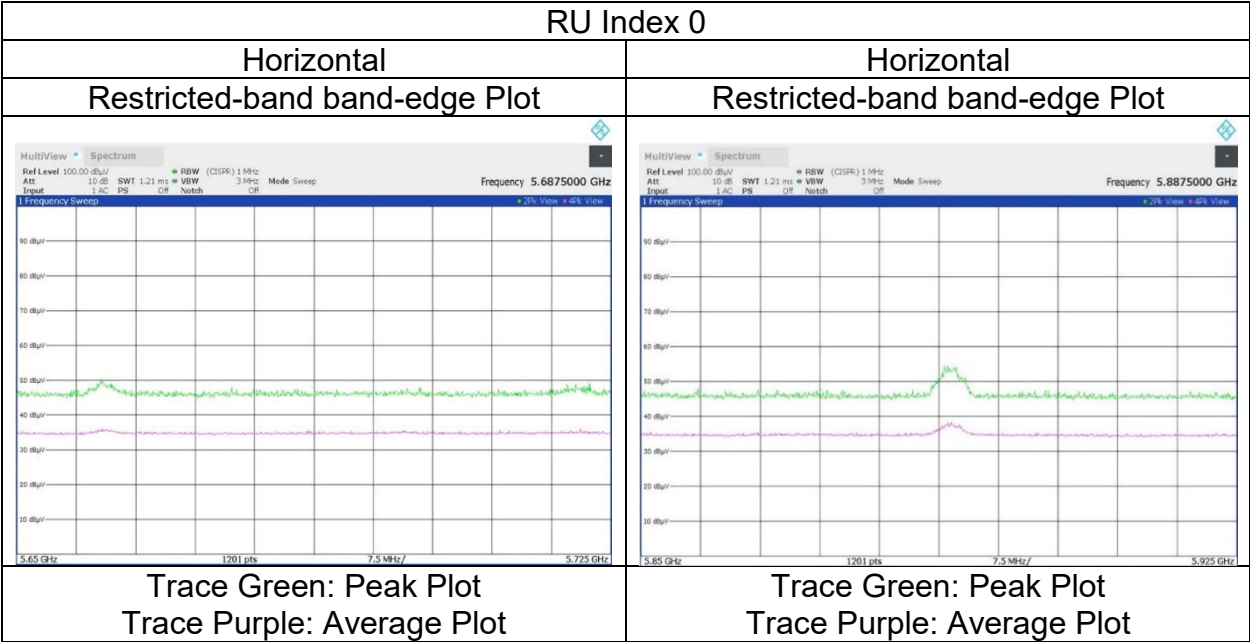
(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.09	32.96	-26.58	-	2.37	56.84	-38.39	-27.0	11.3	228	126	-
Hori.	5661.091	PK	51.45	32.98	-26.57	-	2.37	60.23	-35.00	-18.7	16.2	228	126	-
Hori.	5700.000	PK	47.40	33.00	-26.56	-	2.37	56.21	-39.02	10.0	49.0	228	126	-
Hori.	5720.000	PK	48.48	33.02	-26.55	-	2.37	57.32	-37.91	15.6	53.5	228	126	-
Hori.	5720.883	PK	49.69	33.02	-26.55	-	2.37	58.53	-36.70	17.7	54.4	228	126	-
Hori.	5725.000	PK	50.08	33.03	-26.55	-	2.37	58.93	-36.30	27.0	63.3	228	126	-
Hori.	5850.000	PK	47.83	33.13	-26.51	-	2.37	56.82	-38.41	27.0	65.4	228	126	-
Hori.	5855.000	PK	47.19	33.14	-26.51	-	2.37	56.19	-39.04	15.6	54.6	228	126	-
Hori.	5875.000	PK	47.32	33.17	-26.51	-	2.37	56.35	-38.88	10.0	48.8	228	126	-
Hori.	5888.926	PK	55.45	33.19	-26.51	-	2.37	64.50	-30.73	-0.3	30.4	228	126	-
Hori.	5925.000	PK	47.27	33.27	-26.50	-	2.37	56.41	-38.82	-27.0	11.8	228	126	-
Vert.	5650.000	PK	47.62	32.96	-26.58	-	2.37	56.37	-38.86	-27.0	11.8	135	116	-
Vert.	5661.090	PK	54.50	32.98	-26.57	-	2.37	63.28	-31.95	-18.7	13.2	135	116	-
Vert.	5700.000	PK	48.50	33.00	-26.56	-	2.37	57.31	-37.92	10.0	47.9	135	116	-
Vert.	5720.000	PK	52.44	33.02	-26.55	-	2.37	61.28	-33.95	15.6	49.5	135	116	-
Vert.	5720.879	PK	53.39	33.02	-26.55	-	2.37	62.23	-33.00	17.7	50.7	135	116	-
Vert.	5725.000	PK	52.49	33.03	-26.55	-	2.37	61.34	-33.89	27.0	60.8	135	116	-
Vert.	5850.000	PK	47.96	33.13	-26.51	-	2.37	56.95	-38.28	27.0	65.2	135	116	-
Vert.	5855.000	PK	48.12	33.14	-26.51	-	2.37	57.12	-38.11	15.6	53.7	135	116	-
Vert.	5875.000	PK	47.63	33.17	-26.51	-	2.37	56.66	-38.57	10.0	48.5	135	116	-
Vert.	5888.928	PK	60.44	33.19	-26.51	-	2.37	69.49	-25.74	-0.3	25.4	135	116	-
Vert.	5925.000	PK	48.18	33.27	-26.50	-	2.37	57.32	-37.91	-27.0	10.9	135	116	-

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 22, 2024
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5775 MHz, Ant 0 + Ant 2



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	January 22, 2024	May 4, 2024	April 17, 2024
Temperature / Humidity	20 deg. C / 44 % RH	23 deg. C / 49 % RH	24 deg. C / 50 % RH
Engineer	Miku Ikudome	Miku Ikudome	Makoto Hosaka
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 40 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5775 MHz, Ant 0 + Ant 2		

RU Index 36

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11550.000	PK	61.80	37.94	-32.30	0.00	-9.54	57.90	73.9	16.0	147	189	-
Hori.	11550.000	AV	47.86	37.94	-32.30	0.00	-9.54	43.96	53.9	9.9	147	189	VBW: 5 kHz
Vert.	11550.000	PK	63.17	37.94	-32.30	0.00	-9.54	59.27	73.9	14.6	119	241	-
Vert.	11550.000	AV	48.14	37.94	-32.30	0.00	-9.54	44.24	53.9	9.6	119	241	VBW: 5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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.	5650.000	PK	48.23	32.96	-26.58	0.00	2.37	56.98	-38.25	-27.0	11.2	208	123	-
Hori.	5660.994	PK	58.30	32.98	-26.57	0.00	2.37	67.08	-28.15	-18.8	9.3	208	123	-
Hori.	5700.000	PK	48.17	33.00	-26.56	0.00	2.37	56.98	-38.25	10.0	48.2	208	123	-
Hori.	5720.000	PK	47.59	33.02	-26.55	0.00	2.37	56.43	-38.80	15.6	54.4	208	123	-
Hori.	5725.000	PK	47.61	33.03	-26.55	0.00	2.37	56.46	-38.77	27.0	65.7	208	123	-
Hori.	5850.000	PK	47.78	33.13	-26.51	0.00	2.37	56.77	-38.46	27.0	65.4	208	123	-
Hori.	5850.981	PK	48.79	33.13	-26.51	0.00	2.37	57.78	-37.45	24.8	62.2	208	123	-
Hori.	5855.000	PK	47.48	33.14	-26.51	0.00	2.37	56.48	-38.75	15.6	54.3	208	123	-
Hori.	5875.000	PK	47.71	33.17	-26.51	0.00	2.37	56.74	-38.49	10.0	48.4	208	123	-
Hori.	5888.753	PK	51.67	33.19	-26.51	0.00	2.37	60.72	-34.51	-0.1	34.4	208	123	-
Hori.	5925.000	PK	46.84	33.27	-26.50	0.00	2.37	55.98	-39.25	-27.0	12.2	208	123	-
Hori.	17325.000	PK	48.67	40.28	-29.92	0.00	-9.54	49.49	-45.74	-27.0	18.7	150	0	Floor noise
Vert.	5650.000	PK	47.61	32.96	-26.58	0.00	2.37	56.36	-38.87	-27.0	11.8	173	119	-
Vert.	5660.996	PK	62.82	32.98	-26.57	0.00	2.37	71.60	-23.63	-18.8	4.8	173	119	-
Vert.	5700.000	PK	47.89	33.00	-26.56	0.00	2.37	56.70	-38.53	10.0	48.5	173	119	-
Vert.	5720.000	PK	47.78	33.02	-26.55	0.00	2.37	56.62	-38.61	15.6	54.2	173	119	-
Vert.	5725.000	PK	48.28	33.03	-26.55	0.00	2.37	57.13	-38.10	27.0	65.1	173	119	-
Vert.	5850.000	PK	48.61	33.13	-26.51	0.00	2.37	57.60	-37.63	27.0	64.6	173	119	-
Vert.	5850.983	PK	50.20	33.13	-26.51	0.00	2.37	59.19	-36.04	24.8	60.8	173	119	-
Vert.	5855.000	PK	47.56	33.14	-26.51	0.00	2.37	56.56	-38.67	15.6	54.2	173	119	-
Vert.	5875.000	PK	47.75	33.17	-26.51	0.00	2.37	56.78	-38.45	10.0	48.4	173	119	-
Vert.	5888.747	PK	54.56	33.19	-26.51	0.00	2.37	63.61	-31.62	-0.1	31.5	173	119	-
Vert.	5925.000	PK	46.83	33.27	-26.50	0.00	2.37	55.97	-39.26	-27.0	12.2	173	119	-
Vert.	17325.000	PK	48.45	40.28	-29.92	0.00	-9.54	49.27	-45.96	-27.0	18.9	150	0	Floor noise

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)

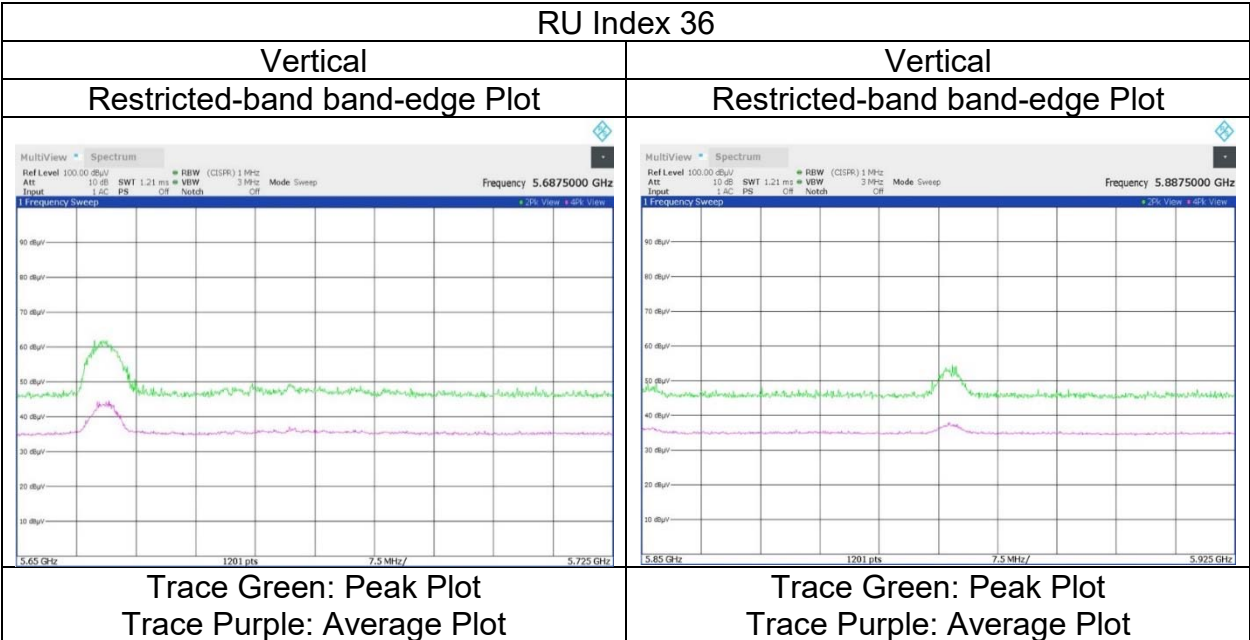
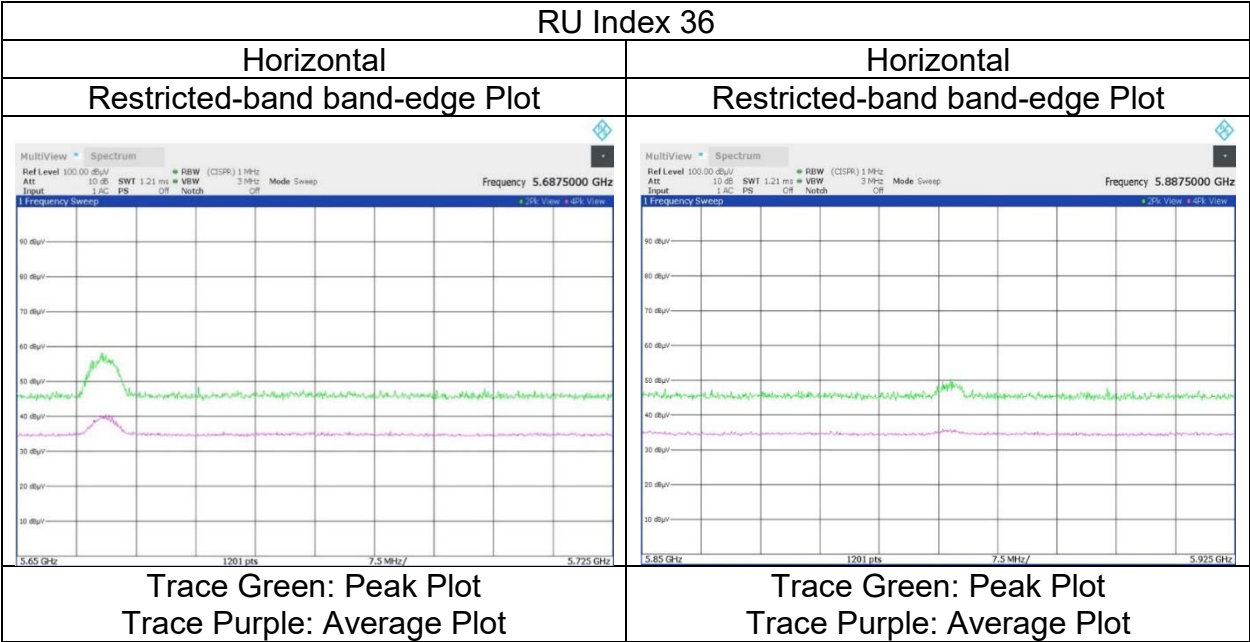
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 22, 2024
Temperature / Humidity	20 deg. C / 44 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 26-tone RU 5775 MHz, Ant 0 + Ant 2



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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Shonan EMC Lab.
WAC2
January 23, 2024
21 deg. C / 40 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5210 MHz, Ant 0 + Ant 2

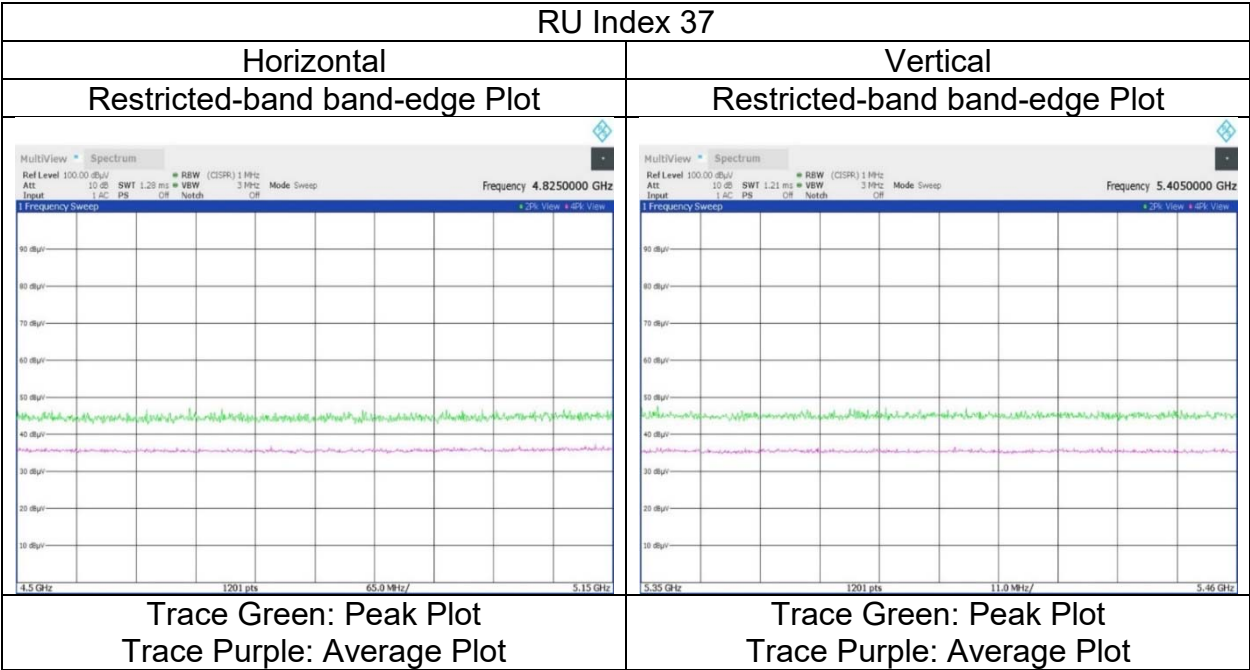
RU Index 37
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.20	32.17	-26.97	-	2.37	55.77	73.9	18.1	176	78	-
Hori.	5150.000	AV	37.56	32.17	-26.97	-	2.37	45.13	53.9	8.7	176	78	VBW:10 kHz
Vert.	5150.000	PK	47.76	32.17	-26.97	-	2.37	55.33	73.9	18.5	206	113	-
Vert.	5150.000	AV	37.31	32.17	-26.97	-	2.37	44.88	53.9	9.0	206	113	VBW:10 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

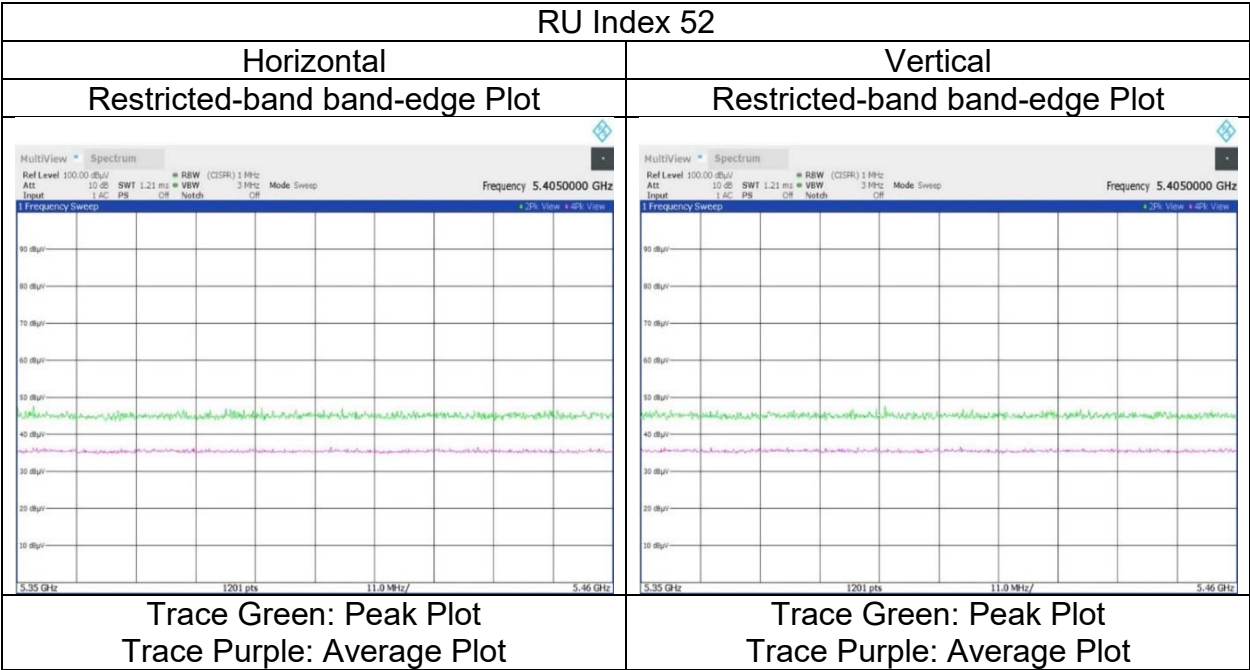
Mode

Shonan EMC Lab.
WAC2
January 23, 2024
21 deg. C / 40 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5290 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.04	32.16	-26.77	-	2.37	54.80	73.9	19.1	178	74	-
Hori.	5350.000	AV	36.31	32.16	-26.77	-	2.37	44.07	53.9	9.8	178	74	VBW:10 kHz
Vert.	5350.000	PK	47.64	32.16	-26.77	-	2.37	55.40	73.9	18.5	151	107	-
Vert.	5350.000	AV	36.51	32.16	-26.77	-	2.37	44.27	53.9	9.6	151	107	VBW:10 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

Shonan EMC Lab.
WAC2
January 23, 2024
21 deg. C / 40 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5530 MHz, Ant 0 + Ant 2

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

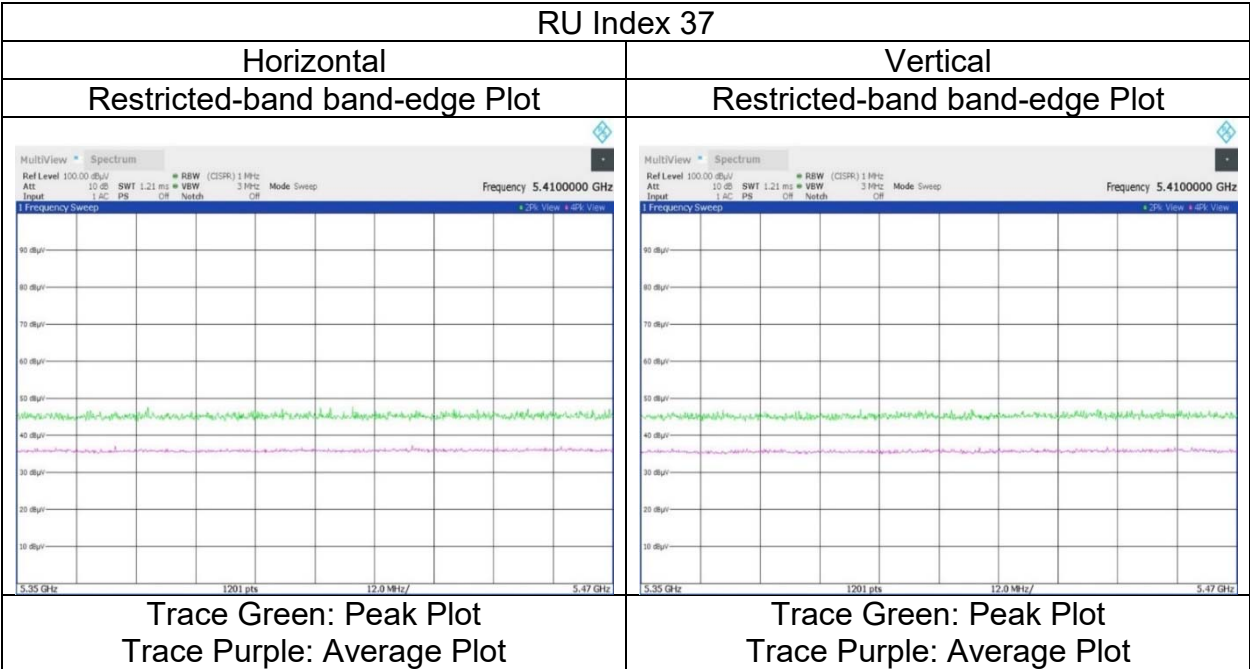
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	37.07	32.46	-26.65	-	2.37	45.25	53.9	8.6	123	109	VBW:10 kHz
Vert.	5460.000	AV	36.90	32.46	-26.65	-	2.37	45.08	53.9	8.8	269	113	VBW:10 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	47.80	32.46	-26.65	-	2.37	55.98	-39.25	-27.0	12.2	123	109	-
Hori.	5470.000	PK	47.67	32.49	-26.64	-	2.37	55.89	-39.34	-27.0	12.3	123	109	-
Vert.	5460.000	PK	48.20	32.46	-26.65	-	2.37	56.38	-38.85	-27.0	11.8	269	113	-
Vert.	5470.000	PK	47.59	32.49	-26.64	-	2.37	55.81	-39.42	-27.0	12.4	269	113	-

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 (3.940 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



Vertical

Restricted-band band-edge Plot

Trace Green: Peak Plot
Trace Purple: Average Plot

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

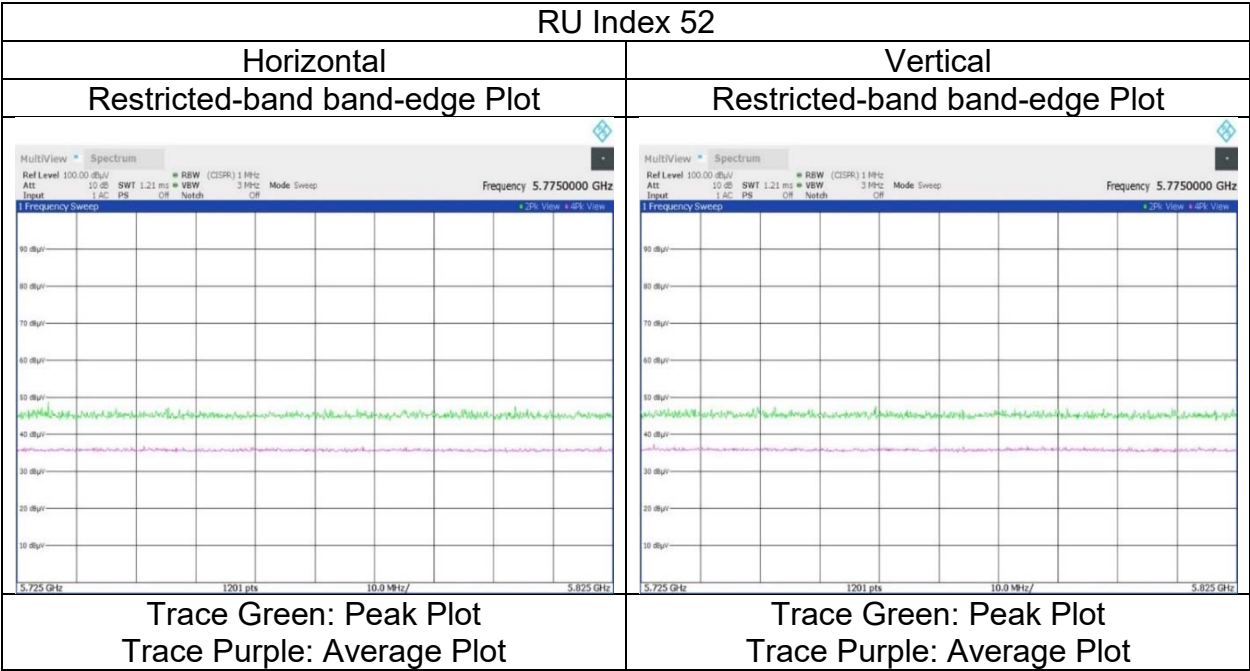
Mode

Shonan EMC Lab.
WAC2
April 16, 2024
23 deg. C / 47 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5530 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5725.000	PK	48.36	33.03	-28.99	-	2.37	54.77	-40.46	-27.0	13.6	240	131	-	
Vert.	5725.000	PK	48.22	33.03	-28.99	-	2.37	54.63	-40.60	-27.0	13.6	199	124	-	

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 37

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	37.70	32.96	-26.58	-	2.37	46.45	-48.78	-27.0	21.7	233	130	-
Hori.	5665.019	PK	37.63	32.98	-26.57	-	2.37	46.41	-48.82	-15.8	33.0	233	130	-
Hori.	5700.000	PK	37.92	33.00	-26.56	-	2.37	46.73	-48.50	10.0	58.5	233	130	-
Hori.	5720.000	PK	38.92	33.02	-26.55	-	2.37	47.76	-47.47	15.6	63.0	233	130	-
Hori.	5720.722	PK	39.31	33.02	-26.55	-	2.37	48.15	-47.08	17.3	64.3	233	130	-
Hori.	5725.000	PK	37.84	33.03	-26.55	-	2.37	46.69	-48.54	27.0	75.5	233	130	-
Hori.	5850.000	PK	37.65	33.13	-26.51	-	2.37	46.64	-48.59	27.0	75.5	233	130	-
Hori.	5855.000	PK	37.71	33.14	-26.51	-	2.37	46.71	-48.52	15.6	64.1	233	130	-
Hori.	5875.000	PK	37.37	33.17	-26.51	-	2.37	46.40	-48.83	10.0	58.8	233	130	-
Hori.	5885.962	PK	41.18	33.18	-26.51	-	2.37	50.22	-45.01	1.9	46.9	233	130	-
Hori.	5925.000	PK	37.46	33.27	-26.50	-	2.37	46.60	-48.63	-27.0	21.6	233	130	-
Vert.	5650.000	PK	48.05	32.96	-26.58	-	2.37	56.80	-38.43	-27.0	11.4	198	121	-
Vert.	5665.019	PK	48.50	32.98	-26.57	-	2.37	57.28	-37.95	-15.8	22.1	198	121	-
Vert.	5700.000	PK	48.48	33.00	-26.56	-	2.37	57.29	-37.94	10.0	47.9	198	121	-
Vert.	5720.000	PK	52.11	33.02	-26.55	-	2.37	60.95	-34.28	15.6	49.8	198	121	-
Vert.	5720.722	PK	53.05	33.02	-26.55	-	2.37	61.89	-33.34	17.3	50.6	198	121	-
Vert.	5725.000	PK	53.28	33.03	-26.55	-	2.37	62.13	-33.10	27.0	60.1	198	121	-
Vert.	5850.000	PK	48.43	33.13	-26.51	-	2.37	57.42	-37.81	27.0	64.8	198	121	-
Vert.	5855.000	PK	48.57	33.14	-26.51	-	2.37	57.57	-37.66	15.6	53.2	198	121	-
Vert.	5875.000	PK	47.91	33.17	-26.51	-	2.37	56.94	-38.29	10.0	48.2	198	121	-
Vert.	5885.962	PK	56.09	33.18	-26.51	-	2.37	65.13	-30.10	1.9	31.9	198	121	-
Vert.	5925.000	PK	47.39	33.27	-26.50	-	2.37	56.53	-38.70	-27.0	11.7	198	121	-

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)

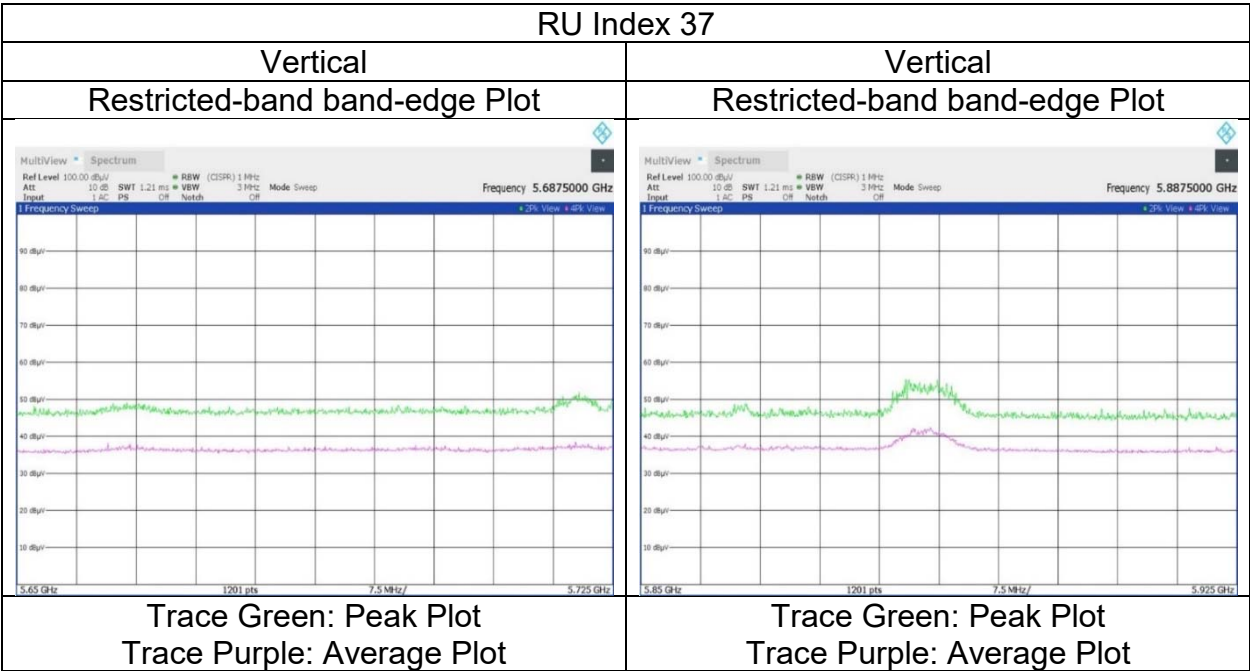
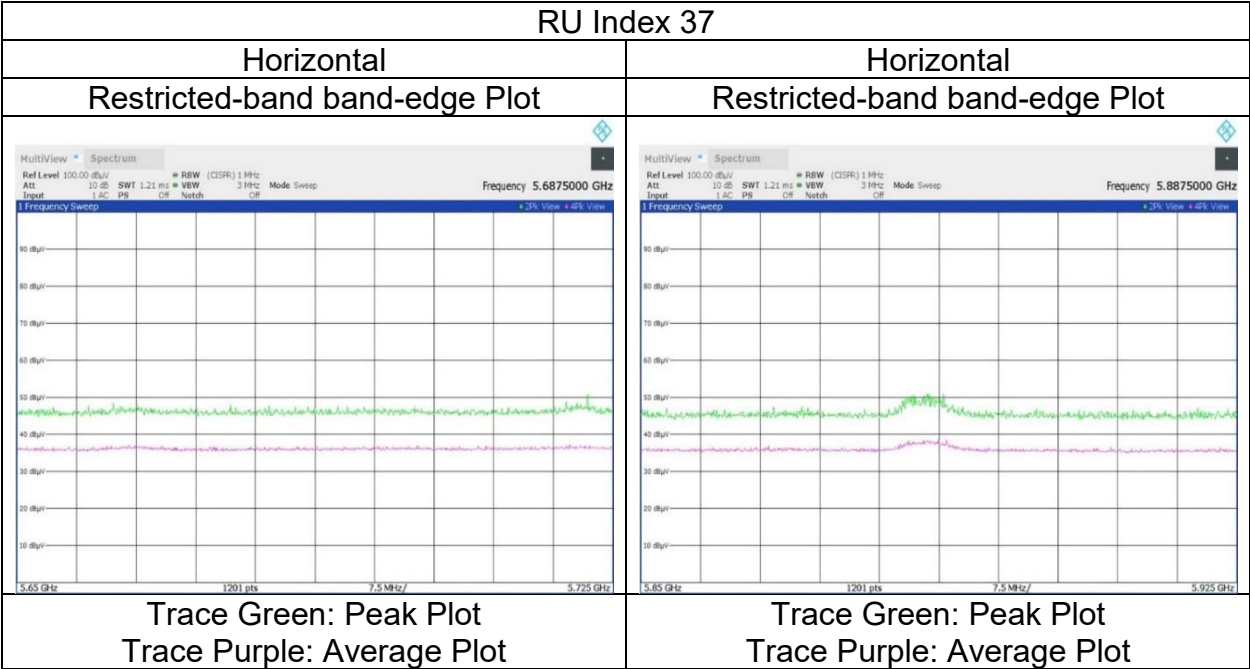
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 52

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.70	32.96	-26.58	-	2.37	56.45	-38.78	-27.0	11.7	225	128	-
Hori.	5664.743	PK	55.27	32.98	-26.57	-	2.37	64.05	-31.18	-16.0	15.1	225	128	-
Hori.	5700.000	PK	47.59	33.00	-26.56	-	2.37	56.40	-38.83	10.0	48.8	225	128	-
Hori.	5720.000	PK	47.77	33.02	-26.55	-	2.37	56.61	-38.62	15.6	54.2	225	128	-
Hori.	5725.000	PK	48.20	33.03	-26.55	-	2.37	57.05	-38.18	27.0	65.1	225	128	-
Hori.	5850.000	PK	48.19	33.13	-26.51	-	2.37	57.18	-38.05	27.0	65.0	225	128	-
Hori.	5855.000	PK	47.25	33.14	-26.51	-	2.37	56.25	-38.98	15.6	54.5	225	128	-
Hori.	5875.000	PK	47.39	33.17	-26.51	-	2.37	56.42	-38.81	10.0	48.8	225	128	-
Hori.	5886.370	PK	49.00	33.18	-26.51	-	2.37	58.04	-37.19	1.6	38.7	225	128	-
Hori.	5925.000	PK	46.98	33.27	-26.50	-	2.37	56.12	-39.11	-27.0	12.1	225	128	-
Vert.	5650.000	PK	48.59	32.96	-26.58	-	2.37	57.34	-37.89	-27.0	10.8	205	119	-
Vert.	5665.019	PK	58.31	32.98	-26.57	-	2.37	67.09	-28.14	-15.8	12.3	205	119	-
Vert.	5683.191	PK	52.63	32.99	-26.57	-	2.37	61.42	-33.81	-2.4	31.4	205	119	-
Vert.	5700.000	PK	48.14	33.00	-26.56	-	2.37	56.95	-38.28	10.0	48.2	205	119	-
Vert.	5720.000	PK	47.85	33.02	-26.55	-	2.37	56.69	-38.54	15.6	54.1	205	119	-
Vert.	5725.000	PK	48.06	33.03	-26.55	-	2.37	56.91	-38.32	27.0	65.3	205	119	-
Vert.	5850.000	PK	49.01	33.13	-26.51	-	2.37	58.00	-37.23	27.0	64.2	205	119	-
Vert.	5855.000	PK	48.39	33.14	-26.51	-	2.37	57.39	-37.84	15.6	53.4	205	119	-
Vert.	5875.000	PK	49.02	33.17	-26.51	-	2.37	58.05	-37.18	10.0	47.1	205	119	-
Vert.	5886.370	PK	51.70	33.18	-26.51	-	2.37	60.74	-34.49	1.6	36.0	205	119	-
Vert.	5925.000	PK	47.56	33.27	-26.50	-	2.37	56.70	-38.53	-27.0	11.5	205	119	-

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)

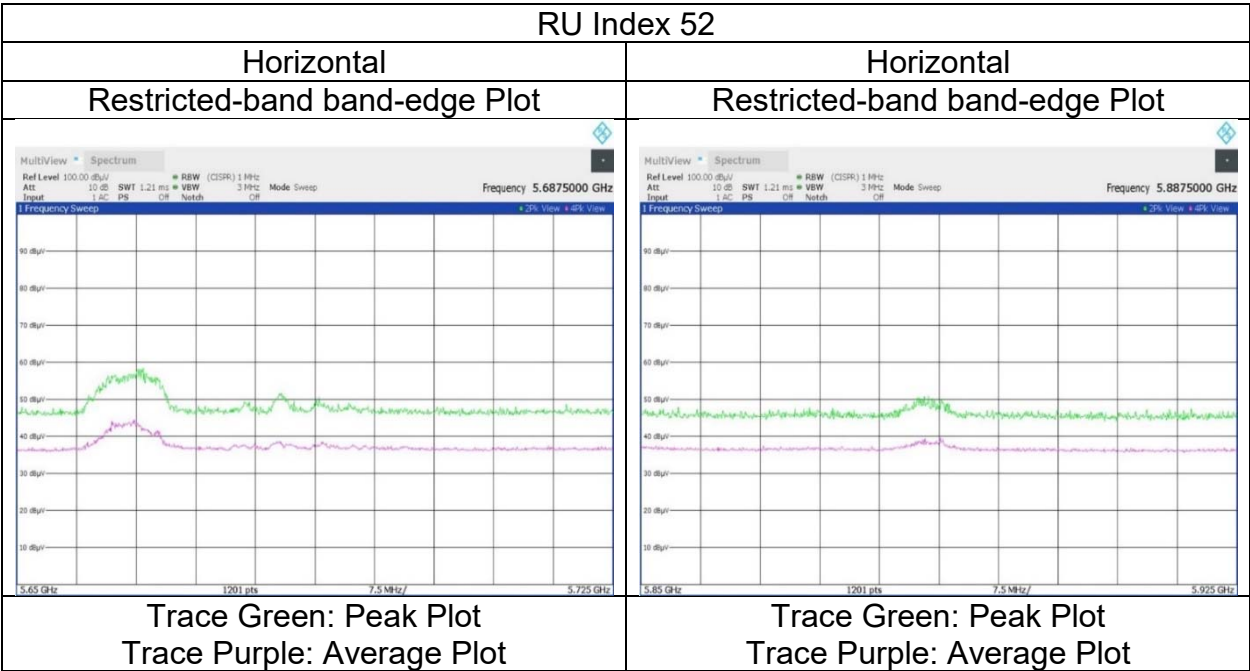
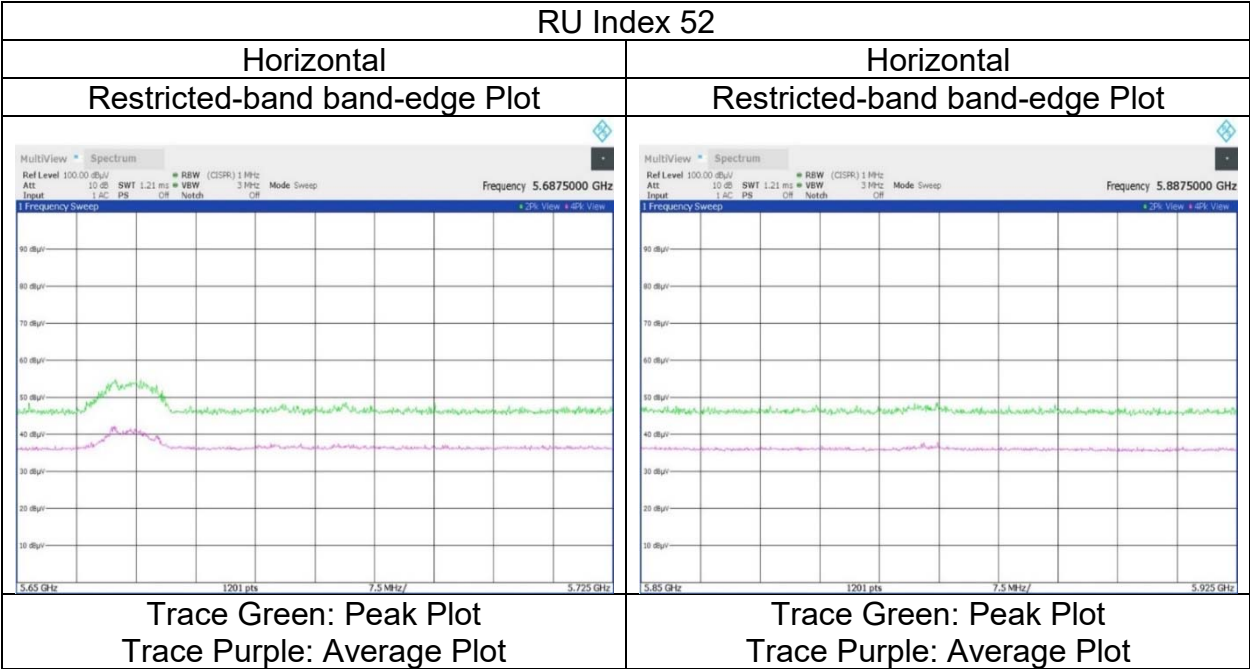
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 52-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome (1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5210 MHz, Ant 0 + Ant 2

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

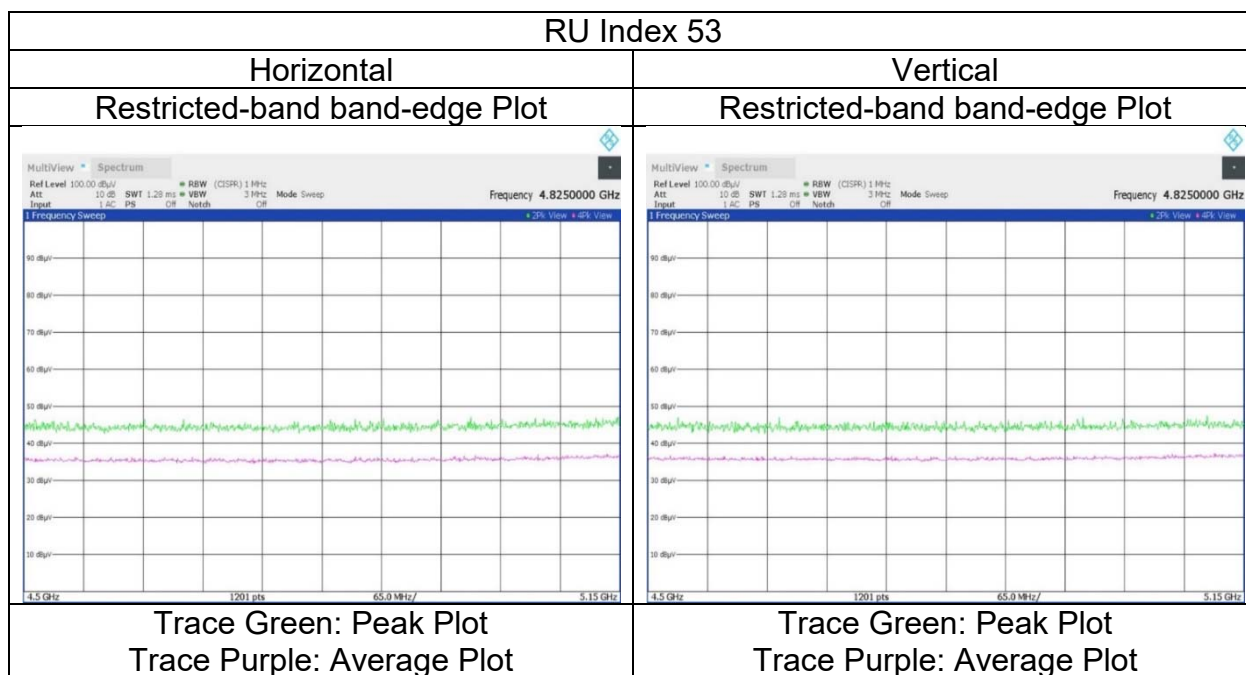
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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	48.89	32.17	-26.97	-	2.37	56.46	73.9	17.4	162	74	-
Hori.	5150.000	AV	37.68	32.17	-26.97	-	2.37	45.25	53.9	8.6	162	74	VBW:10 kHz
Vert.	5150.000	PK	48.66	32.17	-26.97	-	2.37	56.23	73.9	17.6	273	109	-
Vert.	5150.000	AV	37.91	32.17	-26.97	-	2.37	45.48	53.9	8.4	273	109	VBW:10 kHz

Vert.	5150.000	AV	57.91	52.17	-20.57	-	2.57	45.45	55.5	5.4	27
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 : $20\log (3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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


Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

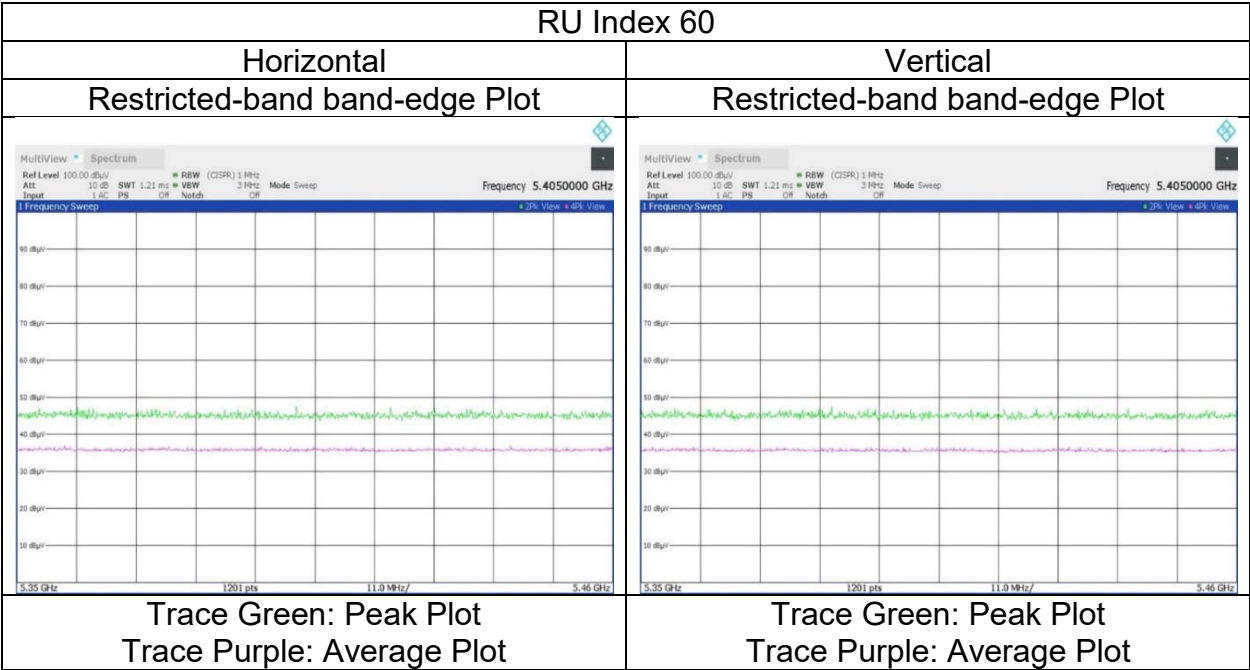
Mode

Shonan EMC Lab.
WAC2
January 23, 2024
21 deg. C / 40 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5290 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	47.79	32.16	-26.77	-	2.37	55.55	73.9	18.3	271	123	-
Hori.	5350.000	AV	36.31	32.16	-26.77	-	2.37	44.07	53.9	9.8	271	123	VBW:10 kHz
Vert.	5350.000	PK	47.68	32.16	-26.77	-	2.37	55.44	73.9	18.4	143	117	-
Vert.	5350.000	AV	36.68	32.16	-26.77	-	2.37	44.44	53.9	9.4	143	117	VBW:10 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

Shonan EMC Lab.
WAC2
January 23, 2024
21 deg. C / 40 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5530 MHz, Ant 0 + Ant 2

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

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

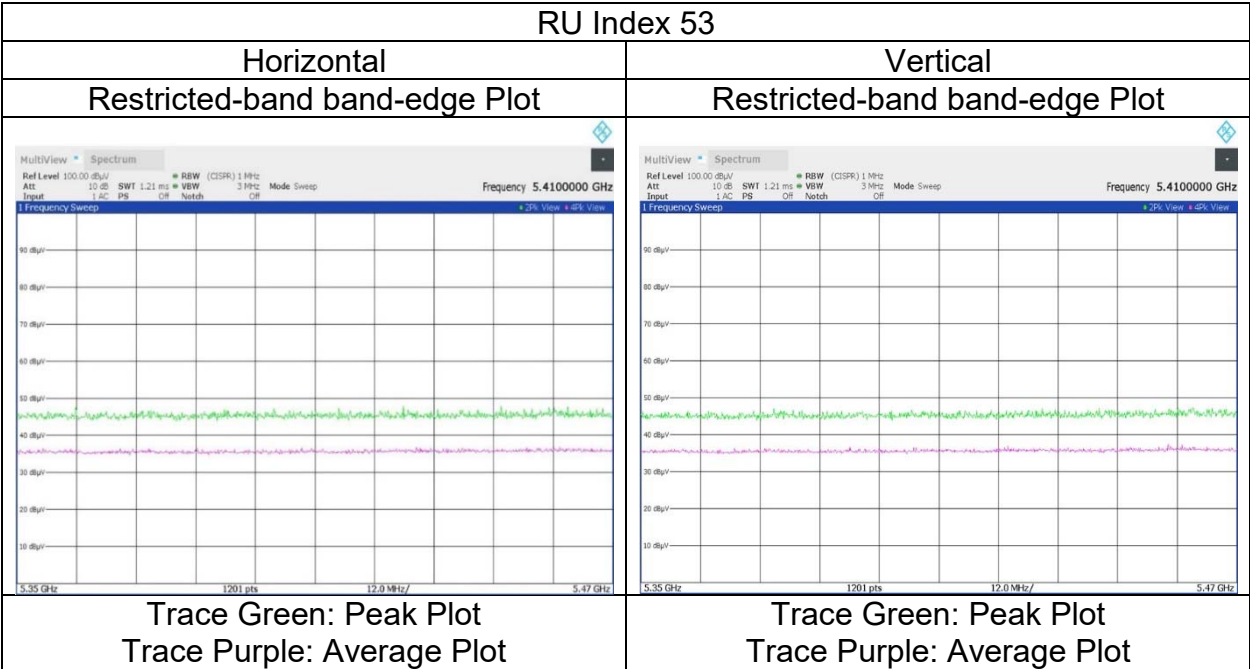
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	37.17	32.46	-26.65	-	2.37	45.35	53.9	8.5	302	123	VBW:10 kHz
Vert.	5460.000	AV	37.22	32.46	-26.65	-	2.37	45.40	53.9	8.5	233	115	VBW:10 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	48.76	32.46	-26.65	-	2.37	56.94	-38.29	-27.0	11.2	302	123	-
Hori.	5470.000	PK	47.80	32.49	-26.64	-	2.37	56.02	-39.21	-27.0	12.2	302	123	-
Vert.	5460.000	PK	48.02	32.46	-26.65	-	2.37	56.20	-39.03	-27.0	12.0	233	115	-
Vert.	5470.000	PK	47.76	32.49	-26.64	-	2.37	55.98	-39.25	-27.0	12.2	233	115	-

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 (3.940 m / 3.0 m) = 2.37 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

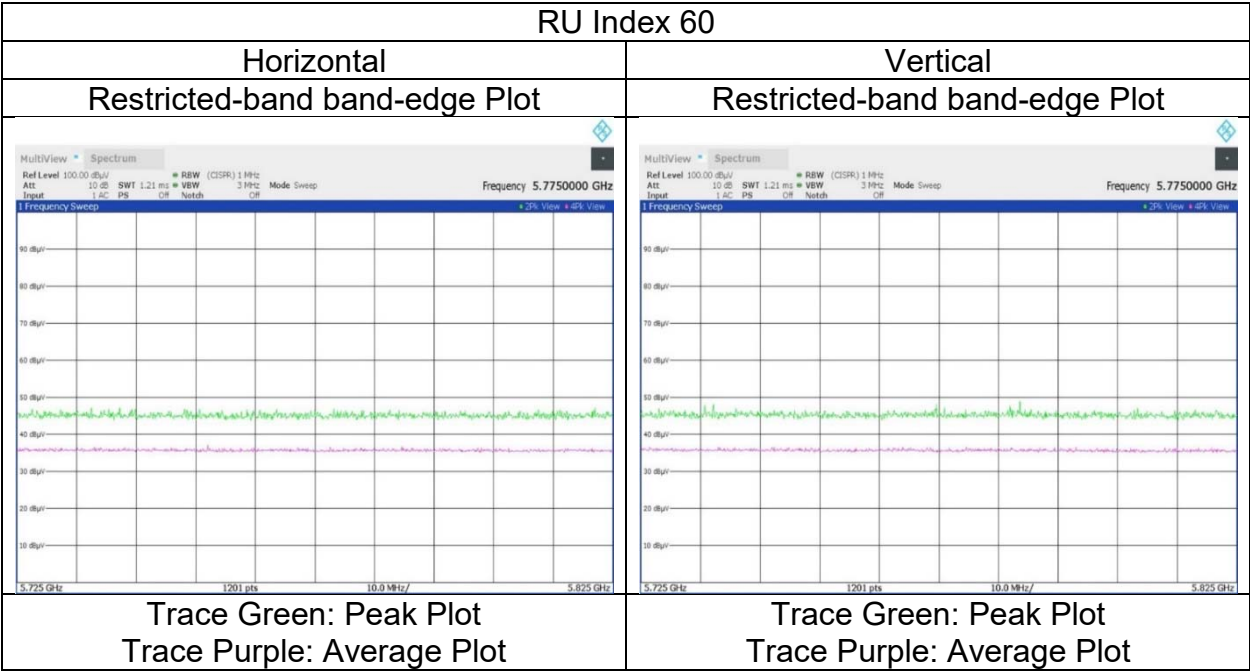
Mode

Shonan EMC Lab.
WAC2
April 16, 2024
23 deg. C / 47 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5530 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.47	33.03	-28.99	-	2.37	54.88	-40.35	-27.0	13.3	239	128	-
Vert.	5725.000	PK	48.64	33.03	-28.99	-	2.37	55.05	-40.18	-27.0	13.1	224	112	-

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome (1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 53

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

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

[Pk, Peak, Av. Average, Ur. Quasi-Peak]														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.52	32.96	-26.58	-	2.37	56.27	-38.96	-27.0	11.9	223	123	-
Hori.	5700.000	PK	47.48	33.00	-26.56	-	2.37	56.29	-38.94	10.0	48.9	223	123	-
Hori.	5720.000	PK	48.55	33.02	-26.55	-	2.37	57.39	-37.84	15.6	53.4	223	123	-
Hori.	5725.000	PK	48.05	33.03	-26.55	-	2.37	56.90	-38.33	27.0	65.3	223	123	-
Hori.	5850.000	PK	47.97	33.13	-26.51	-	2.37	56.96	-38.27	27.0	65.2	223	123	-
Hori.	5855.000	PK	47.34	33.14	-26.51	-	2.37	56.34	-38.89	15.6	54.4	223	123	-
Hori.	5875.000	PK	47.59	33.17	-26.51	-	2.37	56.62	-38.61	10.0	48.6	223	123	-
Hori.	5880.013	PK	48.29	33.17	-26.51	-	2.37	57.32	-37.91	6.3	44.2	223	123	-
Hori.	5925.000	PK	47.40	33.27	-26.50	-	2.37	56.54	-38.69	-27.0	11.6	223	123	-
Vert.	5650.000	PK	47.88	32.96	-26.58	-	2.37	56.63	-38.60	-27.0	11.6	139	116	-
Vert.	5700.000	PK	48.16	33.00	-26.56	-	2.37	56.97	-38.26	10.0	48.2	139	116	-
Vert.	5720.000	PK	50.15	33.02	-26.55	-	2.37	58.99	-36.24	15.6	51.8	139	116	-
Vert.	5725.000	PK	50.11	33.03	-26.55	-	2.37	58.96	-36.27	27.0	63.2	139	116	-
Vert.	5850.000	PK	47.98	33.13	-26.51	-	2.37	56.97	-38.26	27.0	65.2	139	116	-
Vert.	5855.000	PK	47.99	33.14	-26.51	-	2.37	56.99	-38.24	15.6	53.8	139	116	-
Vert.	5875.000	PK	50.90	33.17	-26.51	-	2.37	59.93	-35.30	10.0	45.3	139	116	-
Vert.	5879.737	PK	52.41	33.17	-26.51	-	2.37	61.44	-33.79	6.5	40.2	139	116	-
Vert.	5925.000	PK	47.46	33.27	-26.50	-	2.37	56.60	-38.63	-27.0	11.6	139	116	-

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

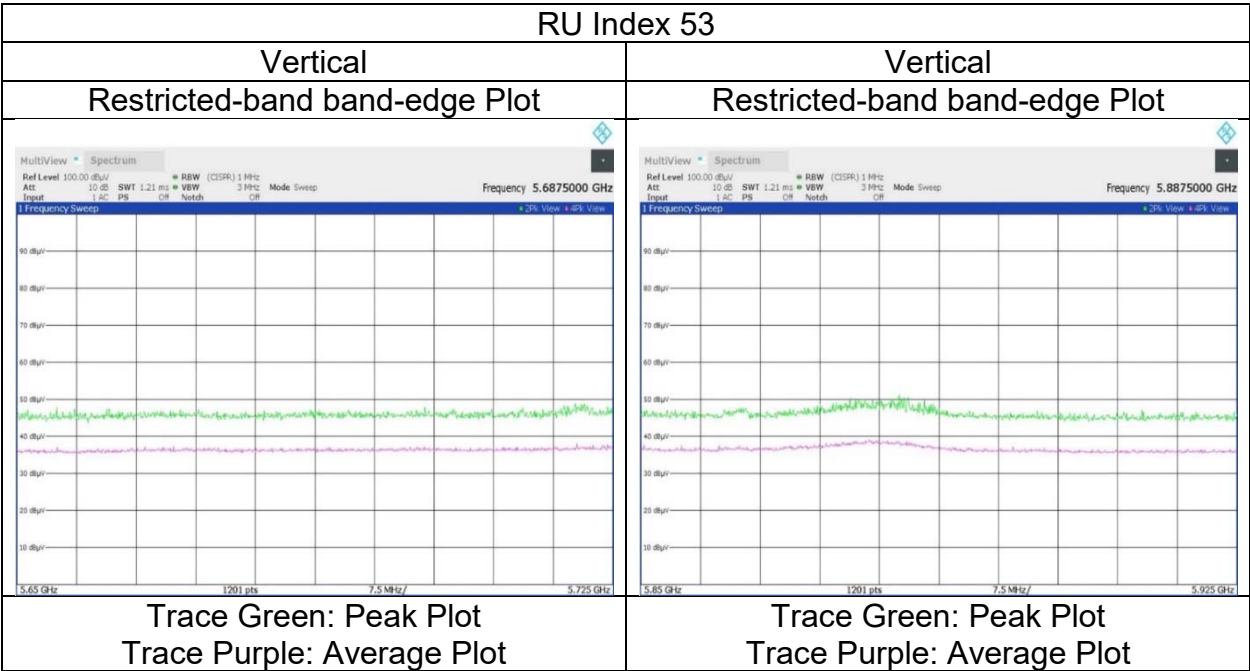
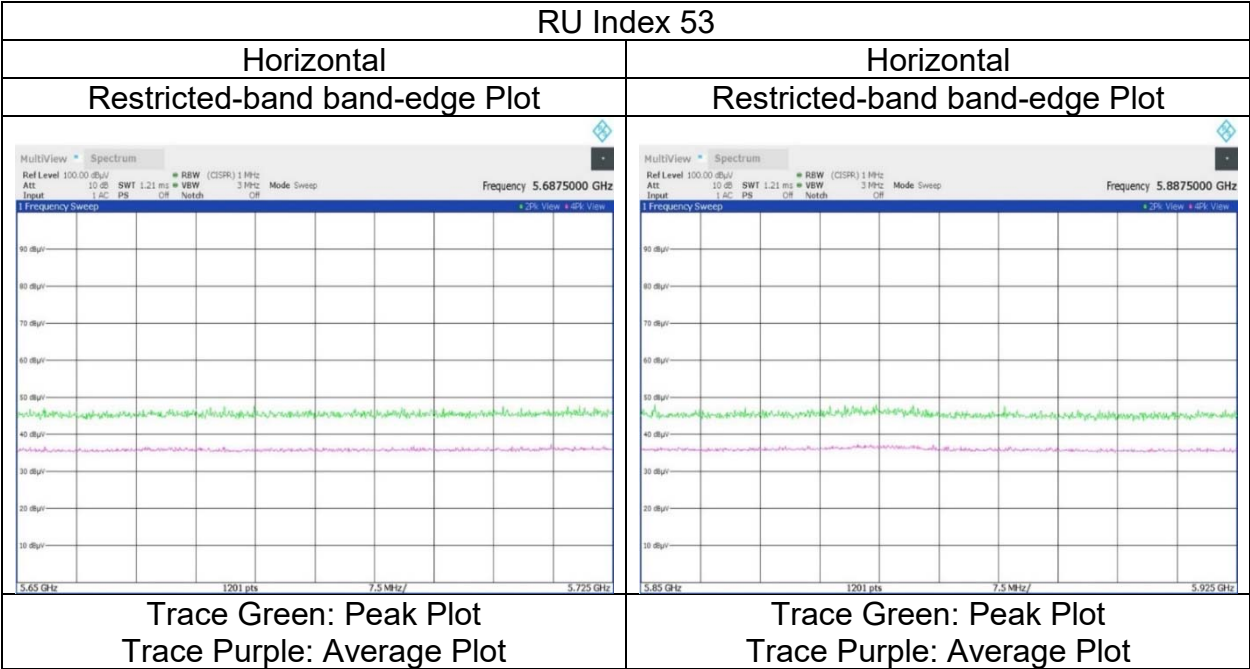
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log (3.940 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 23, 2024
Temperature / Humidity 21 deg. C / 40 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5775 MHz, Ant 0 + Ant 2

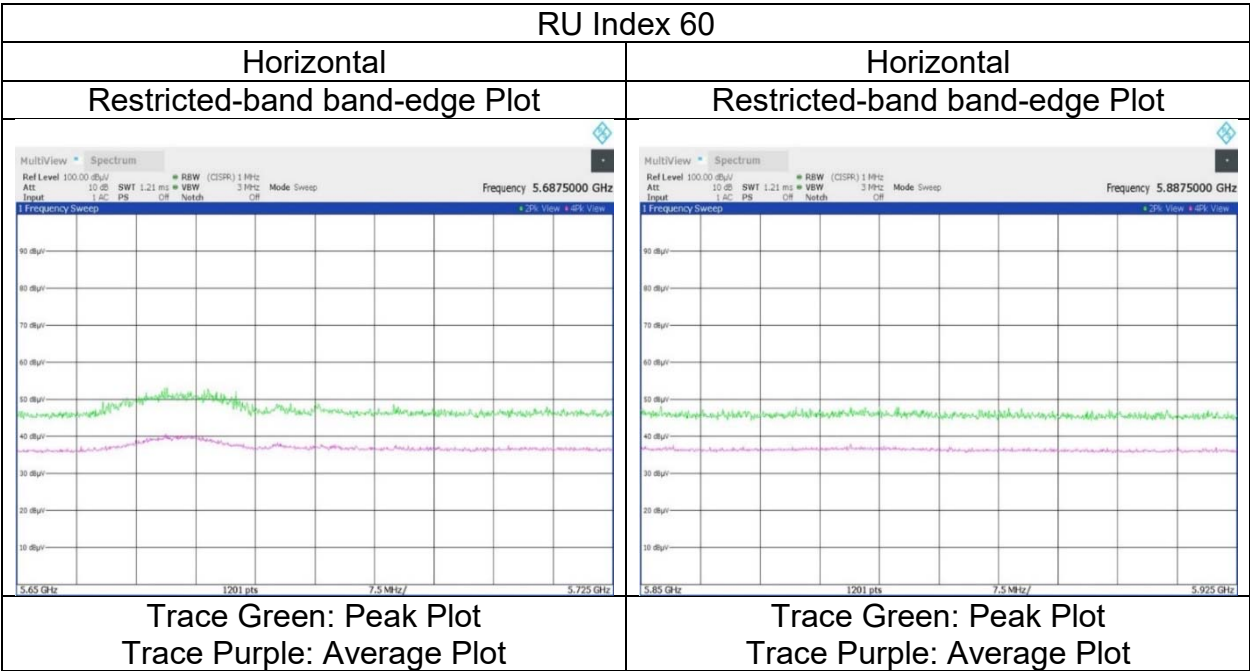
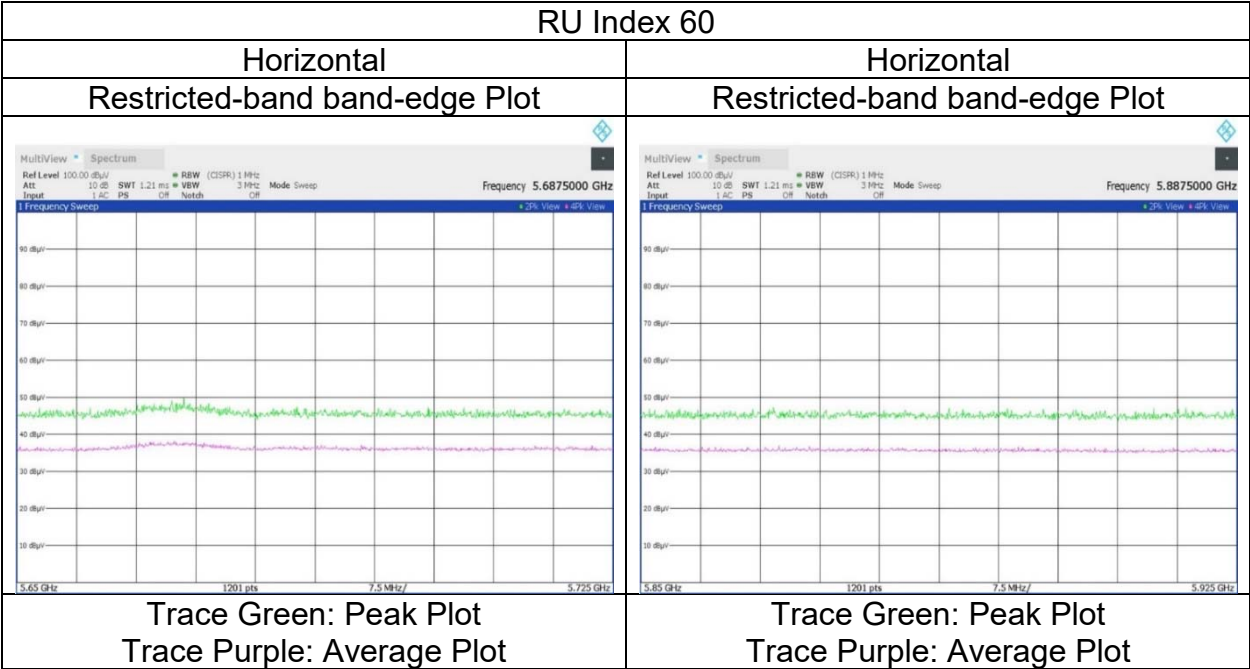
RU Index 60
(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5650.000	PK	47.40	32.96	-26.58	-	2.37	56.15	-39.08	-27.0	12.0	234	88	-	
Hori.	5670.153	PK	50.73	32.98	-26.56	-	2.37	59.52	-35.71	-12.0	23.7	234	88	-	
Hori.	5700.000	PK	48.02	33.00	-26.56	-	2.37	56.83	-38.40	10.0	48.4	234	88	-	
Hori.	5720.000	PK	47.39	33.02	-26.55	-	2.37	56.23	-39.00	15.6	54.6	234	88	-	
Hori.	5725.000	PK	47.53	33.03	-26.55	-	2.37	56.38	-38.85	27.0	65.8	234	88	-	
Hori.	5850.000	PK	47.79	33.13	-26.51	-	2.37	56.78	-38.45	27.0	65.4	234	88	-	
Hori.	5855.000	PK	47.45	33.14	-26.51	-	2.37	56.45	-38.78	15.6	54.3	234	88	-	
Hori.	5875.000	PK	47.81	33.17	-26.51	-	2.37	56.84	-38.39	10.0	48.3	234	88	-	
Hori.	5925.000	PK	47.50	33.27	-26.50	-	2.37	56.64	-38.59	-27.0	11.5	234	88	-	
Vert.	5650.000	PK	48.36	32.96	-26.58	-	2.37	57.11	-38.12	-27.0	11.1	161	121	-	
Vert.	5670.186	PK	53.42	32.98	-26.56	-	2.37	62.21	-33.02	-12.0	21.0	161	121	-	
Vert.	5700.000	PK	48.17	33.00	-26.56	-	2.37	56.98	-38.25	10.0	48.2	161	121	-	
Vert.	5720.000	PK	48.24	33.02	-26.55	-	2.37	57.08	-38.15	15.6	53.7	161	121	-	
Vert.	5725.000	PK	48.02	33.03	-26.55	-	2.37	56.87	-38.36	27.0	65.3	161	121	-	
Vert.	5850.000	PK	47.66	33.13	-26.51	-	2.37	56.65	-38.58	27.0	65.5	161	121	-	
Vert.	5855.000	PK	47.54	33.14	-26.51	-	2.37	56.54	-38.69	15.6	54.2	161	121	-	
Vert.	5875.000	PK	48.63	33.17	-26.51	-	2.37	57.66	-37.57	10.0	47.5	161	121	-	
Vert.	5925.000	PK	47.68	33.27	-26.50	-	2.37	56.82	-38.41	-27.0	11.4	161	121	-	

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 23, 2024
Temperature / Humidity	21 deg. C / 40 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 106-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Shonan EMC Lab.
WAC2
January 24, 2024
20 deg. C / 26 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5210 MHz, Ant 0 + Ant 2

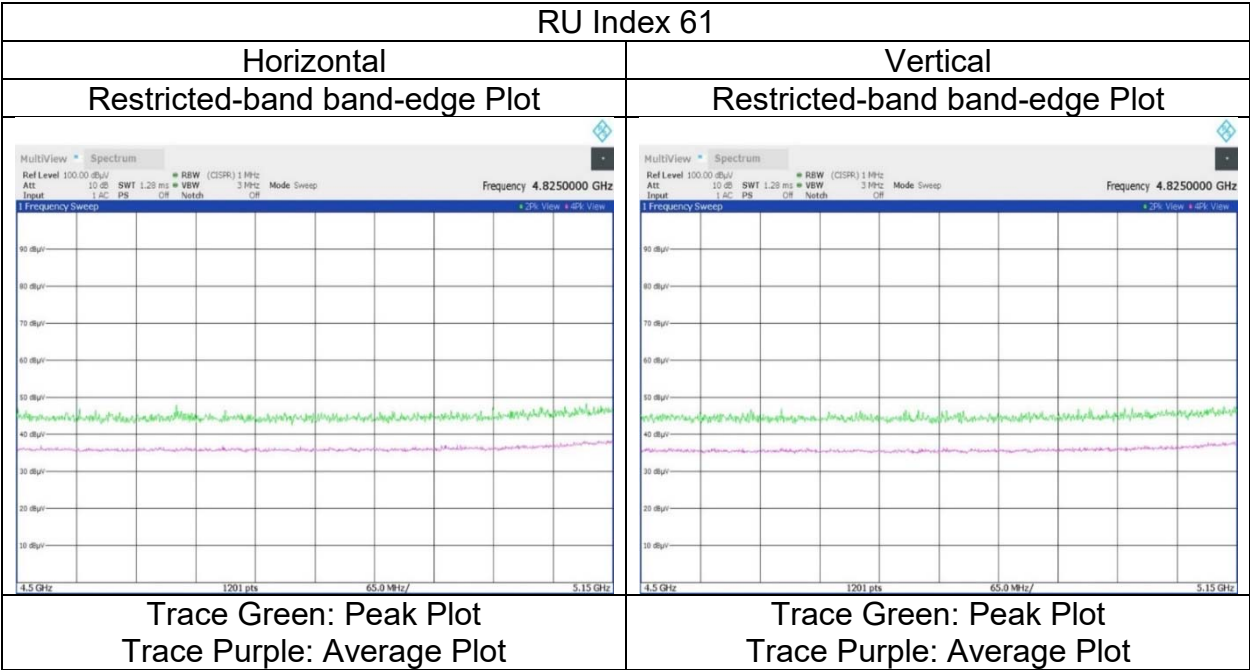
RU Index 61
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.47	32.17	-26.97	-	2.37	58.04	73.9	15.8	207	79	-
Hori.	5150.000	AV	40.06	32.17	-26.97	-	2.37	47.63	53.9	6.2	207	79	VBW:20 kHz
Vert.	5150.000	PK	49.93	32.17	-26.97	-	2.37	57.50	73.9	16.4	200	105	-
Vert.	5150.000	AV	40.01	32.17	-26.97	-	2.37	47.58	53.9	6.3	200	105	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

Shonan EMC Lab.
WAC2
January 24, 2024
20 deg. C / 26 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5290 MHz, Ant 0 + Ant 2

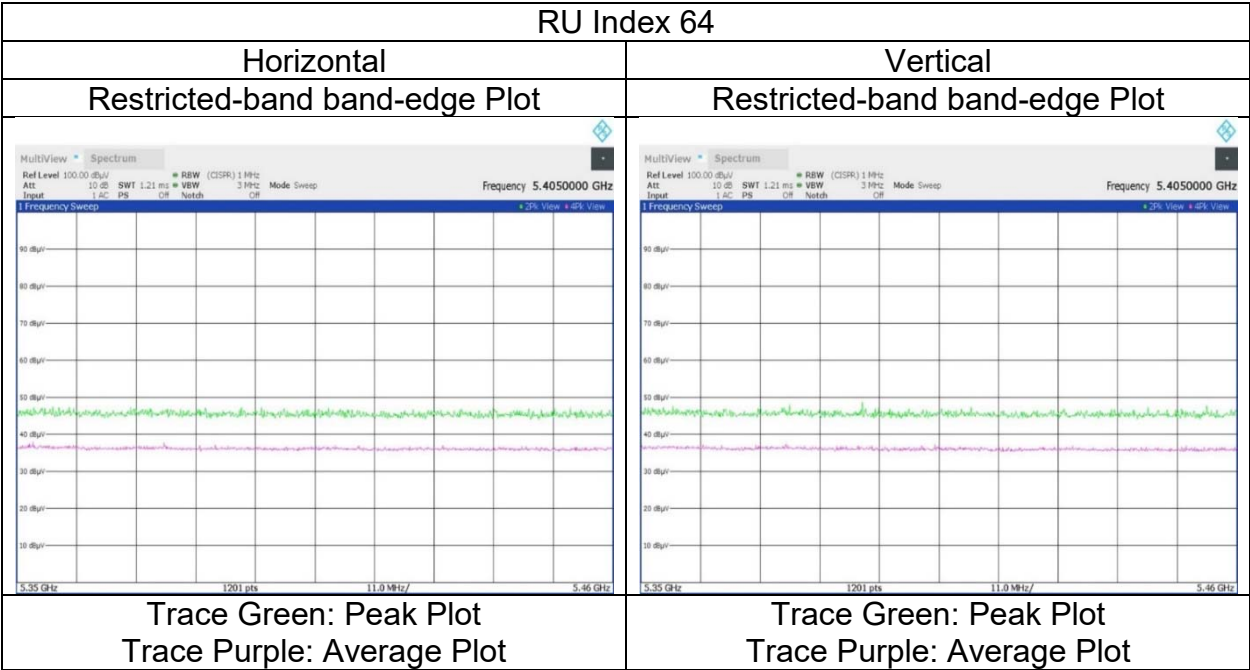
RU Index 64
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.46	32.16	-26.77	-	2.37	56.22	73.9	17.6	324	126	-
Hori.	5350.000	AV	38.48	32.16	-26.77	-	2.37	46.24	53.9	7.6	324	126	VBW:20 kHz
Vert.	5350.000	PK	49.14	32.16	-26.77	-	2.37	56.90	73.9	17.0	172	111	-
Vert.	5350.000	AV	38.59	32.16	-26.77	-	2.37	46.35	53.9	7.5	172	111	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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 WAC2
Date January 24, 2024
Temperature / Humidity 20 deg. C / 26 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5530 MHz, Ant 0 + Ant 2

RU Index 61

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	38.42	32.46	-26.65	-	2.37	46.60	53.9	7.3	156	112	VBW:20 kHz
Vert.	5460.000	AV	38.86	32.46	-26.65	-	2.37	47.04	53.9	6.8	237	119	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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.	5460.000	PK	48.53	32.46	-26.65	-	2.37	56.71	-38.52	-27.0	11.5	156	112	-
Hori.	5470.000	PK	48.73	32.49	-26.64	-	2.37	56.95	-38.28	-27.0	11.2	156	112	-
Vert.	5460.000	PK	48.45	32.46	-26.65	-	2.37	56.63	-38.60	-27.0	11.6	237	119	-
Vert.	5470.000	PK	48.90	32.49	-26.64	-	2.37	57.12	-38.11	-27.0	11.1	237	119	-

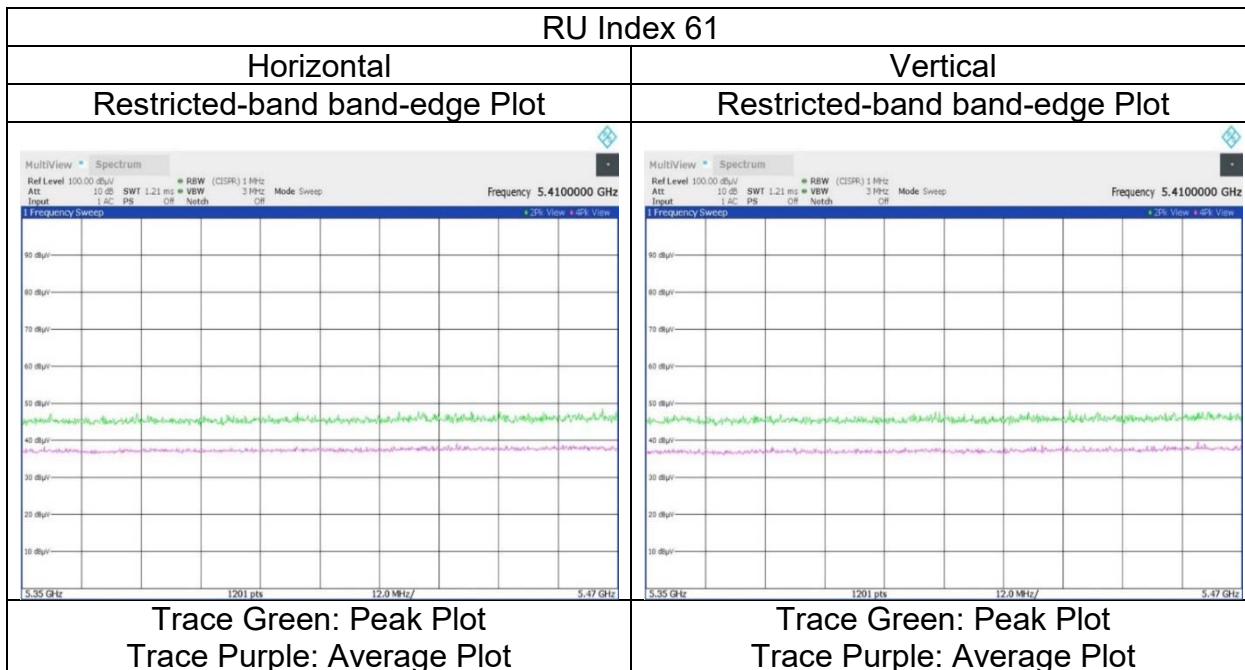
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

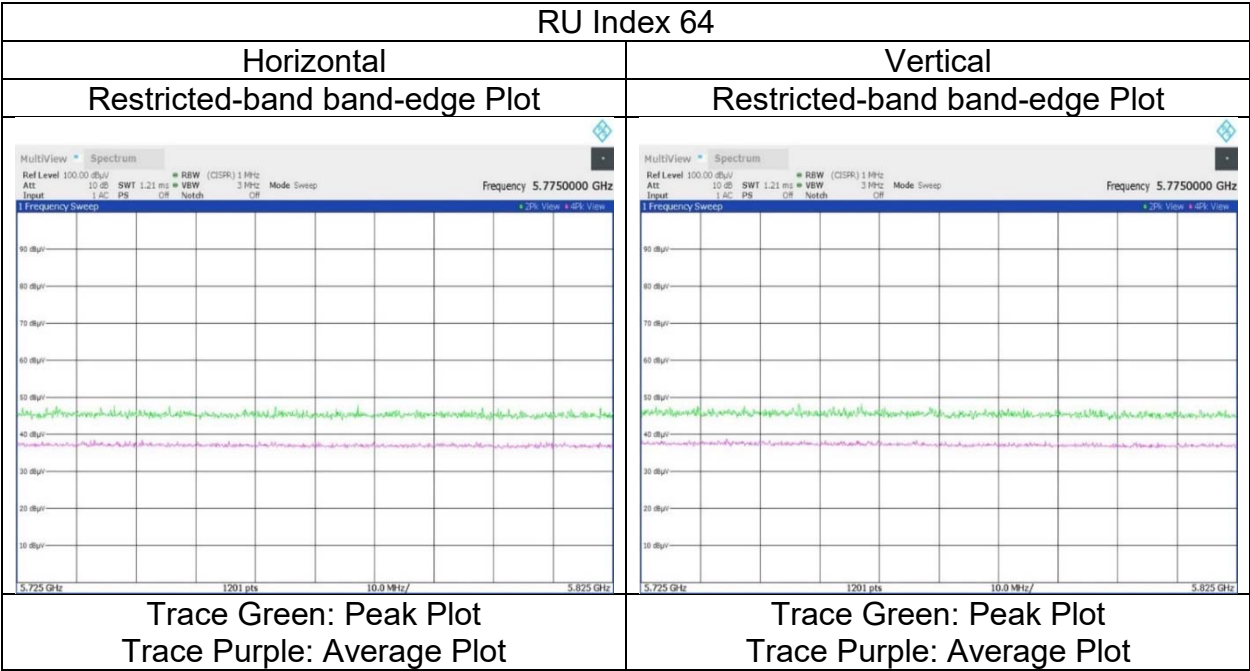
Mode

Shonan EMC Lab.
WAC2
April 16, 2024
23 deg. C / 47 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5530 MHz, Ant 0 + Ant 2

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5725.000	PK	47.74	33.03	-28.99	-	2.37	54.15	-41.08	-27.0	14.0	243	131	-	
Vert.	5725.000	PK	47.36	33.03	-28.99	-	2.37	53.77	-41.46	-27.0	14.4	220	115	-	

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 61

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.32	32.96	-26.58	-	2.37	56.07	-39.16	-27.0	12.1	183	105	-
Hori.	5700.000	PK	48.12	33.00	-26.56	-	2.37	56.93	-38.30	10.0	48.3	183	105	-
Hori.	5720.000	PK	48.73	33.02	-26.55	-	2.37	57.57	-37.66	15.6	53.2	183	105	-
Hori.	5725.000	PK	48.78	33.03	-26.55	-	2.37	57.63	-37.60	27.0	64.6	183	105	-
Hori.	5850.000	PK	47.55	33.13	-26.51	-	2.37	56.54	-38.69	27.0	65.6	183	105	-
Hori.	5855.000	PK	47.61	33.14	-26.51	-	2.37	56.61	-38.62	15.6	54.2	183	105	-
Hori.	5875.000	PK	47.50	33.17	-26.51	-	2.37	56.53	-38.70	10.0	48.7	183	105	-
Hori.	5925.000	PK	47.19	33.27	-26.50	-	2.37	56.33	-38.90	-27.0	11.9	183	105	-
Vert.	5650.000	PK	48.02	32.96	-26.58	-	2.37	56.77	-38.46	-27.0	11.4	158	120	-
Vert.	5700.000	PK	49.11	33.00	-26.56	-	2.37	57.92	-37.31	10.0	47.3	158	120	-
Vert.	5720.000	PK	50.64	33.02	-26.55	-	2.37	59.48	-35.75	15.6	51.3	158	120	-
Vert.	5725.000	PK	51.08	33.03	-26.55	-	2.37	59.93	-35.30	27.0	62.3	158	120	-
Vert.	5850.000	PK	49.23	33.13	-26.51	-	2.37	58.22	-37.01	27.0	64.0	158	120	-
Vert.	5855.000	PK	49.98	33.14	-26.51	-	2.37	58.98	-36.25	15.6	51.8	158	120	-
Vert.	5875.000	PK	49.92	33.17	-26.51	-	2.37	58.95	-36.28	10.0	46.2	158	120	-
Vert.	5925.000	PK	47.36	33.27	-26.50	-	2.37	56.50	-38.73	-27.0	11.7	158	120	-

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)

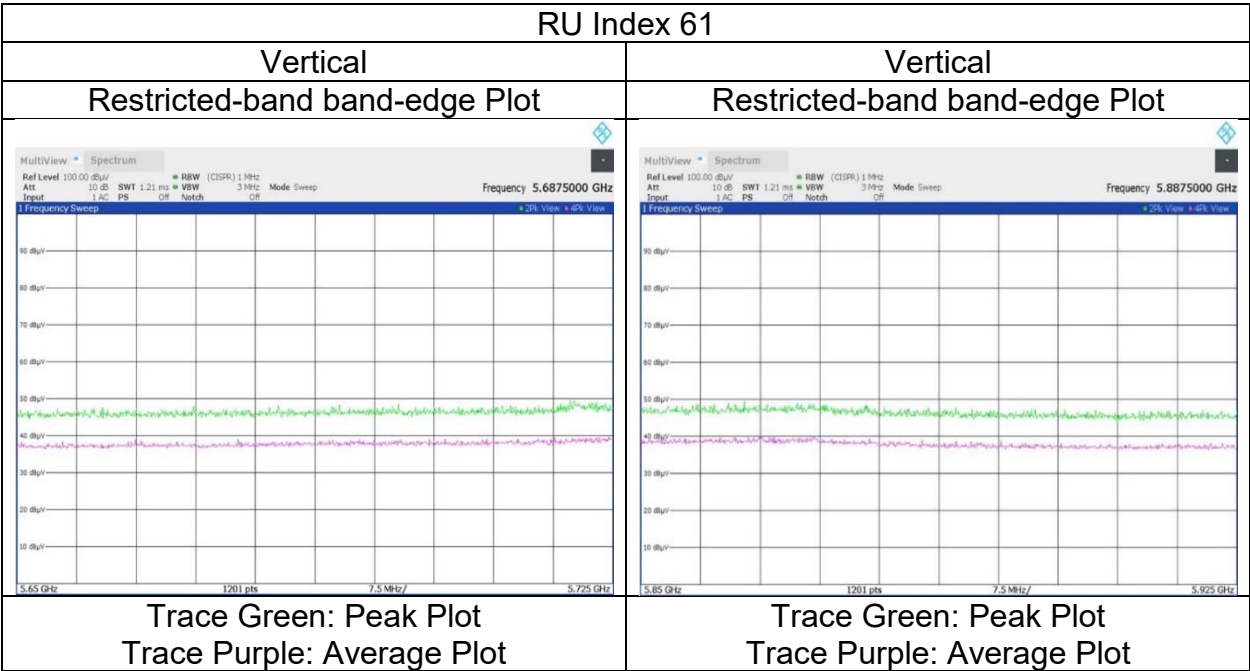
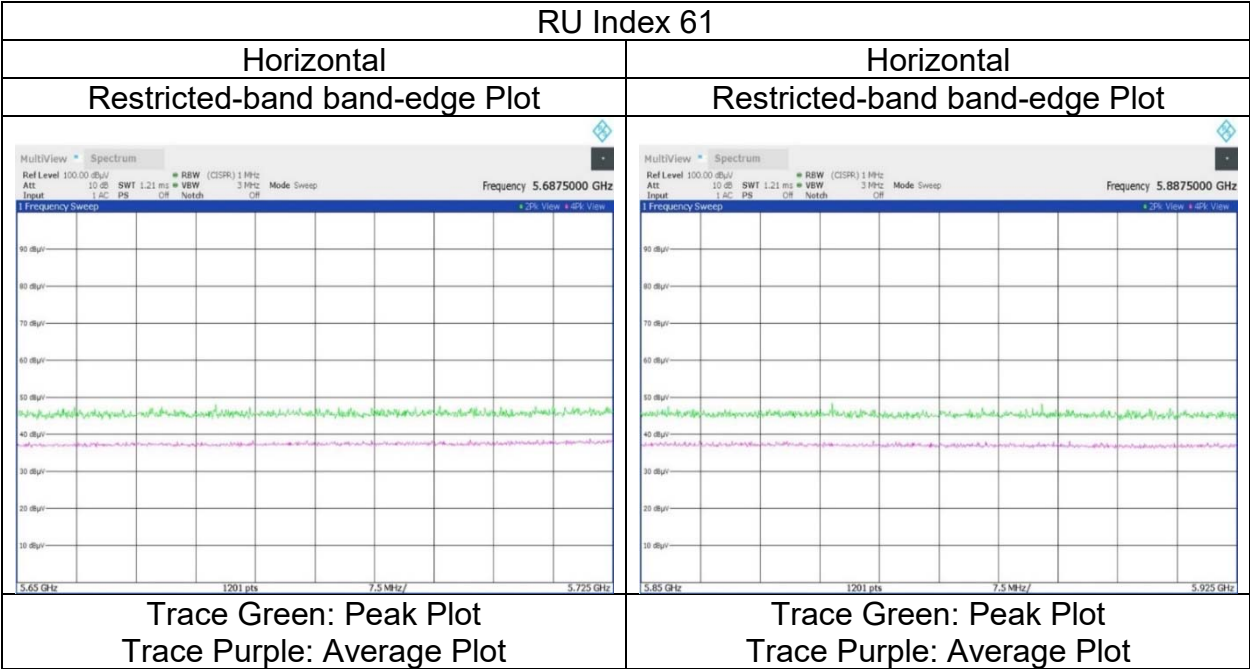
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 24, 2024
Temperature / Humidity 20 deg. C / 26 % RH
Engineer Miku Ikudome
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5775 MHz, Ant 0 + Ant 2

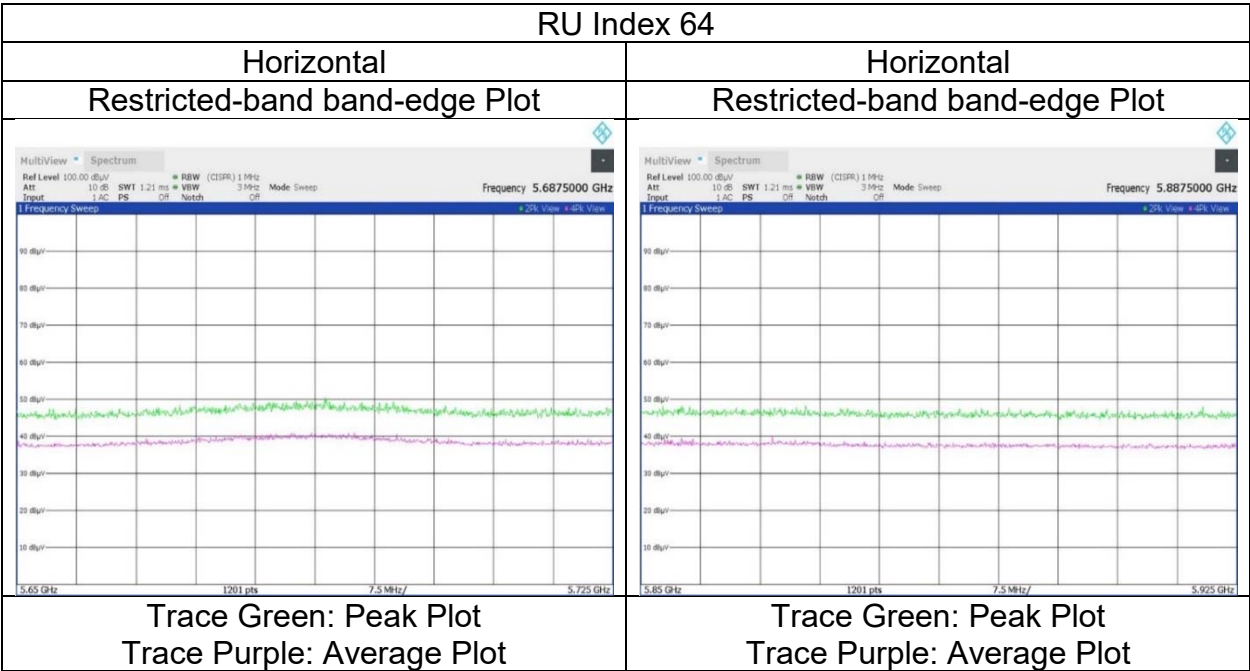
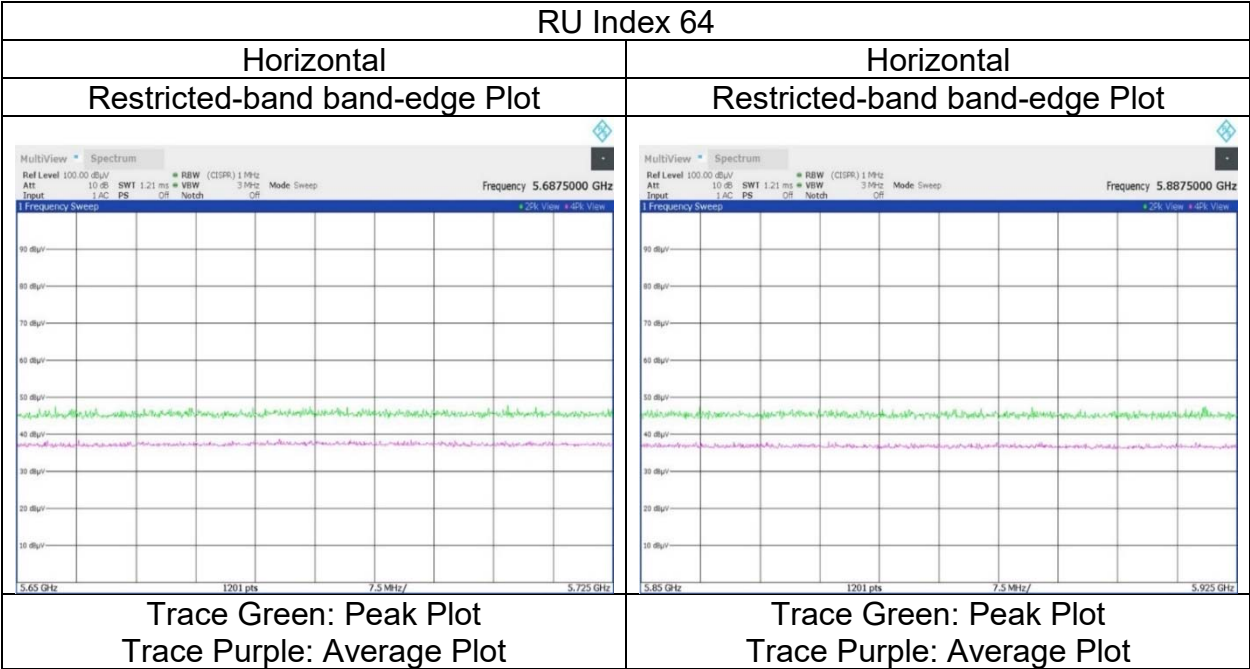
RU Index 64
(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5650.000	PK	47.45	32.96	-26.58	-	2.37	56.20	-39.03	-27.0	12.0	207	99	-	-
Hori.	5700.000	PK	47.35	33.00	-26.56	-	2.37	56.16	-39.07	10.0	49.0	207	99	-	-
Hori.	5720.000	PK	47.66	33.02	-26.55	-	2.37	56.50	-38.73	15.6	54.3	207	99	-	-
Hori.	5725.000	PK	47.86	33.03	-26.55	-	2.37	56.71	-38.52	27.0	65.5	207	99	-	-
Hori.	5850.000	PK	48.40	33.13	-26.51	-	2.37	57.39	-37.84	27.0	64.8	207	99	-	-
Hori.	5855.000	PK	48.10	33.14	-26.51	-	2.37	57.10	-38.13	15.6	53.7	207	99	-	-
Hori.	5875.000	PK	47.38	33.17	-26.51	-	2.37	56.41	-38.82	10.0	48.8	207	99	-	-
Hori.	5925.000	PK	47.53	33.27	-26.50	-	2.37	56.67	-38.56	-27.0	11.5	207	99	-	-
Vert.	5650.000	PK	48.73	32.96	-26.58	-	2.37	57.48	-37.75	-27.0	10.7	220	118	-	-
Vert.	5688.120	PK	50.61	33.00	-26.55	-	2.37	59.43	-35.80	1.3	37.0	220	118	-	-
Vert.	5700.000	PK	50.19	33.00	-26.56	-	2.37	59.00	-36.23	10.0	46.2	220	118	-	-
Vert.	5720.000	PK	48.15	33.02	-26.55	-	2.37	56.99	-38.24	15.6	53.8	220	118	-	-
Vert.	5725.000	PK	48.49	33.03	-26.55	-	2.37	57.34	-37.89	27.0	64.8	220	118	-	-
Vert.	5850.000	PK	48.99	33.13	-26.51	-	2.37	57.98	-37.25	27.0	64.2	220	118	-	-
Vert.	5855.000	PK	48.64	33.14	-26.51	-	2.37	57.64	-37.59	15.6	53.1	220	118	-	-
Vert.	5875.000	PK	48.60	33.17	-26.51	-	2.37	57.63	-37.60	10.0	47.6	220	118	-	-
Vert.	5925.000	PK	48.17	33.27	-26.50	-	2.37	57.31	-37.92	-27.0	10.9	220	118	-	-

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 242-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC2
January 24, 2024
20 deg. C / 26 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5210 MHz, Ant 0 + Ant 2

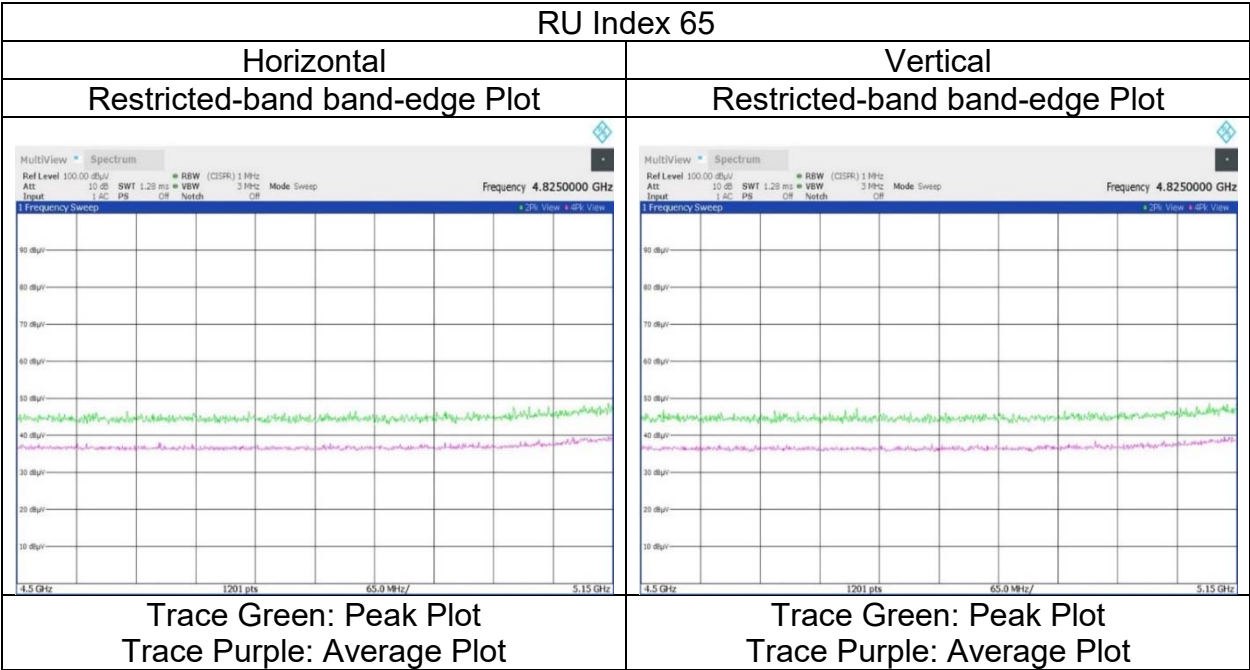
RU Index 65
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.23	32.17	-26.97	-	2.37	57.80	73.9	16.1	203	78	-
Hori.	5150.000	AV	40.96	32.17	-26.97	-	2.37	48.53	53.9	5.3	203	78	VBW:20 kHz
Vert.	5150.000	PK	49.72	32.17	-26.97	-	2.37	57.29	73.9	16.6	219	121	-
Vert.	5150.000	AV	40.71	32.17	-26.97	-	2.37	48.28	53.9	5.6	219	121	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

Shonan EMC Lab.
WAC2
January 24, 2024
20 deg. C / 26 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5290 MHz, Ant 0 + Ant 2

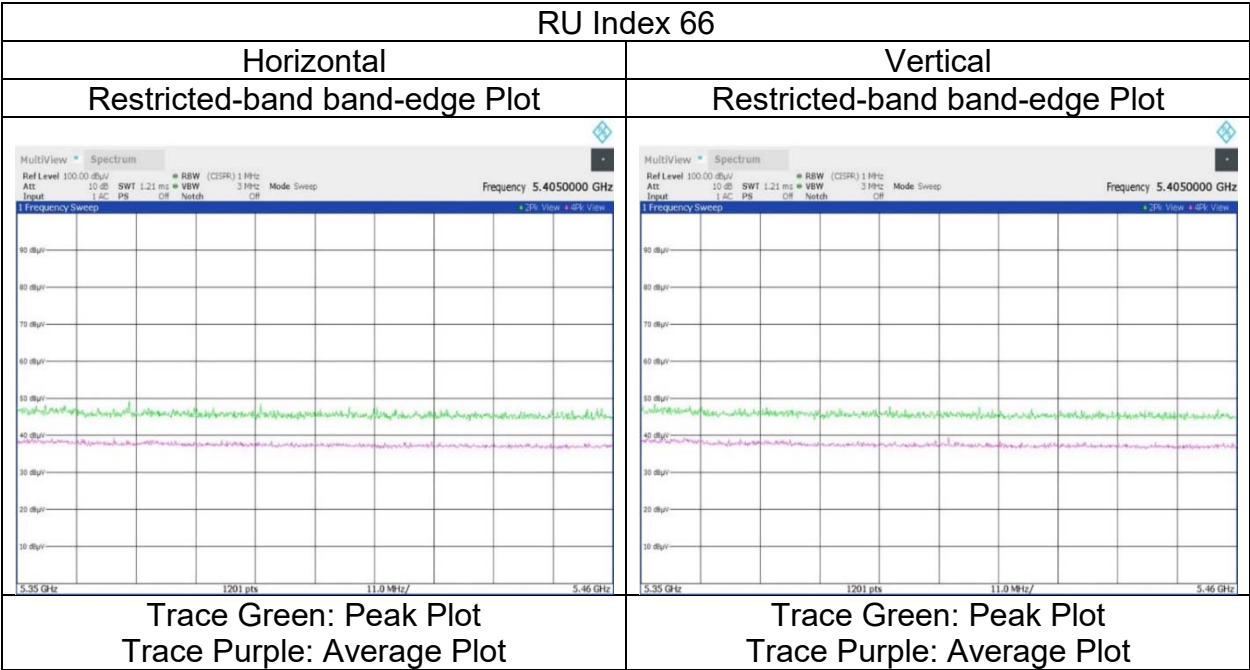
RU Index 66
(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.77	32.16	-26.77	-	2.37	56.53	73.9	17.3	283	125	-
Hori.	5350.000	AV	38.98	32.16	-26.77	-	2.37	46.74	53.9	7.1	283	125	VBW:20 kHz
Vert.	5350.000	PK	48.58	32.16	-26.77	-	2.37	56.34	73.9	17.5	164	117	-
Vert.	5350.000	AV	39.85	32.16	-26.77	-	2.37	47.61	53.9	6.2	164	117	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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

Shonan EMC Lab.
WAC2
January 24, 2024
20 deg. C / 26 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5530 MHz, Ant 0 + Ant 2

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

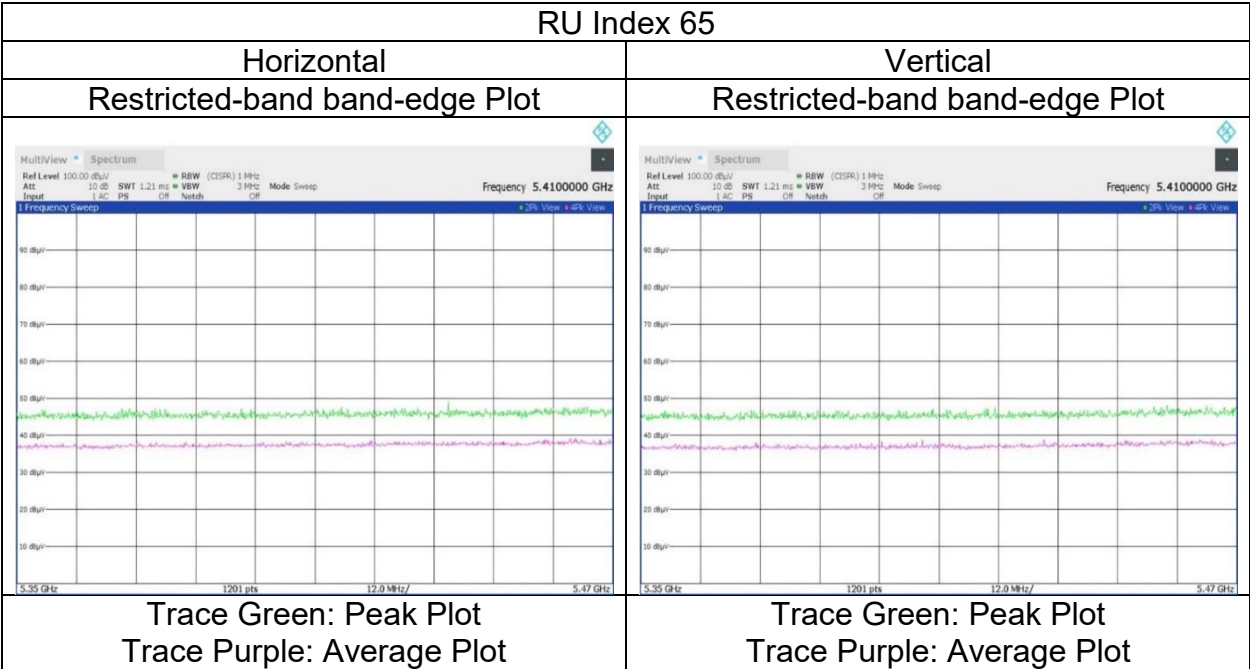
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	38.94	32.46	-26.65	-	2.37	47.12	53.9	6.7	309	120	VBW:20 kHz
Vert.	5460.000	AV	38.88	32.46	-26.65	-	2.37	47.06	53.9	6.8	231	108	VBW:20 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	48.95	32.46	-26.65	-	2.37	57.13	-38.10	-27.0	11.1	309	120	-
Hori.	5470.000	PK	49.52	32.49	-26.64	-	2.37	57.74	-37.49	-27.0	10.4	309	120	-
Vert.	5460.000	PK	48.57	32.46	-26.65	-	2.37	56.75	-38.48	-27.0	11.4	231	108	-
Vert.	5470.000	PK	49.13	32.49	-26.64	-	2.37	57.35	-37.88	-27.0	10.8	231	108	-

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 (3.940 m / 3.0 m) = 2.37 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

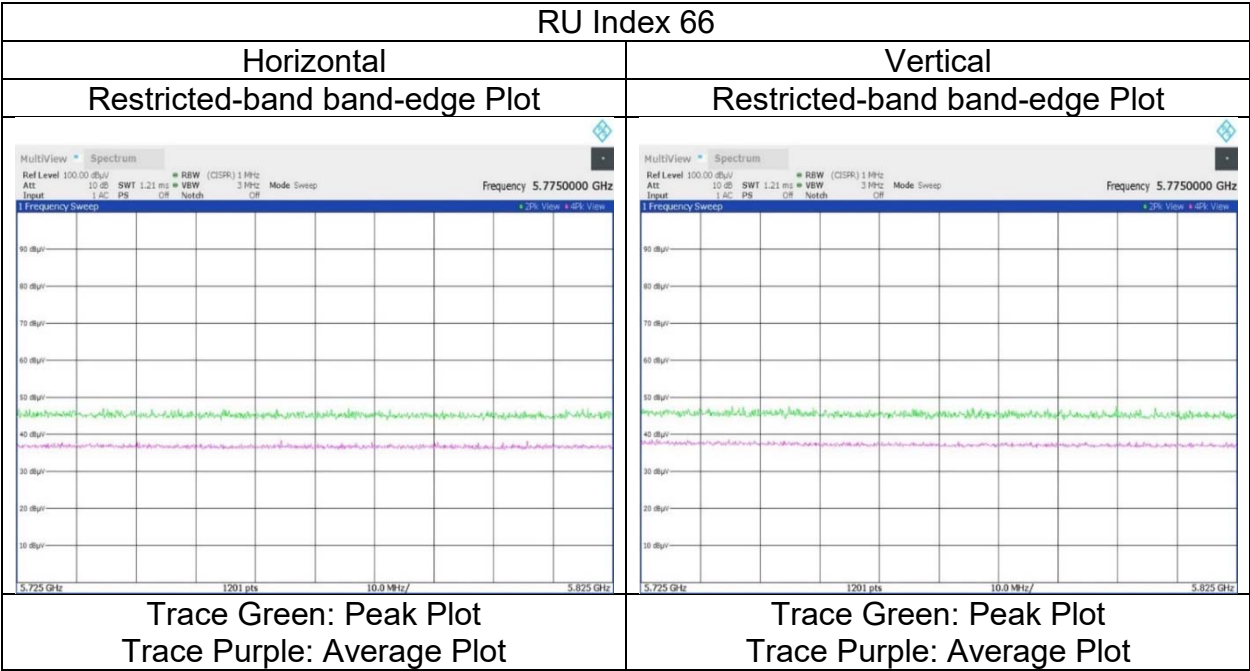
Mode

Shonan EMC Lab.
WAC2
April 16, 2024
23 deg. C / 47 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5530 MHz, Ant 0 + Ant 2

RU Index 66
(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5725.000	PK	48.02	33.03	-28.99	-	2.37	54.43	-40.80	-27.0	13.8	240	130	-	
Vert.	5725.000	PK	47.76	33.03	-28.99	-	2.37	54.17	-41.06	-27.0	14.0	217	113	-	

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 65

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.41	32.96	-26.58	-	2.37	57.16	-38.07	-27.0	11.0	256	130	-
Hori.	5700.000	PK	48.19	33.00	-26.56	-	2.37	57.00	-38.23	10.0	48.2	256	130	-
Hori.	5720.000	PK	48.34	33.02	-26.55	-	2.37	57.18	-38.05	15.6	53.6	256	130	-
Hori.	5725.000	PK	48.42	33.03	-26.55	-	2.37	57.27	-37.96	27.0	64.9	256	130	-
Hori.	5850.000	PK	47.93	33.13	-26.51	-	2.37	56.92	-38.31	27.0	65.3	256	130	-
Hori.	5855.000	PK	48.05	33.14	-26.51	-	2.37	57.05	-38.18	15.6	53.7	256	130	-
Hori.	5875.000	PK	47.47	33.17	-26.51	-	2.37	56.50	-38.73	10.0	48.7	256	130	-
Hori.	5925.000	PK	47.01	33.27	-26.50	-	2.37	56.15	-39.08	-27.0	12.0	256	130	-
Vert.	5650.000	PK	48.30	32.96	-26.58	-	2.37	57.05	-38.18	-27.0	11.1	167	122	-
Vert.	5700.000	PK	48.80	33.00	-26.56	-	2.37	57.61	-37.62	10.0	47.6	167	122	-
Vert.	5720.000	PK	50.61	33.02	-26.55	-	2.37	59.45	-35.78	15.6	51.3	167	122	-
Vert.	5725.000	PK	50.41	33.03	-26.55	-	2.37	59.26	-35.97	27.0	62.9	167	122	-
Vert.	5850.000	PK	49.37	33.13	-26.51	-	2.37	58.36	-36.87	27.0	63.8	167	122	-
Vert.	5855.000	PK	49.19	33.14	-26.51	-	2.37	58.19	-37.04	15.6	52.6	167	122	-
Vert.	5875.000	PK	48.65	33.17	-26.51	-	2.37	57.68	-37.55	10.0	47.5	167	122	-
Vert.	5925.000	PK	47.75	33.27	-26.50	-	2.37	56.89	-38.34	-27.0	11.3	167	122	-

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)

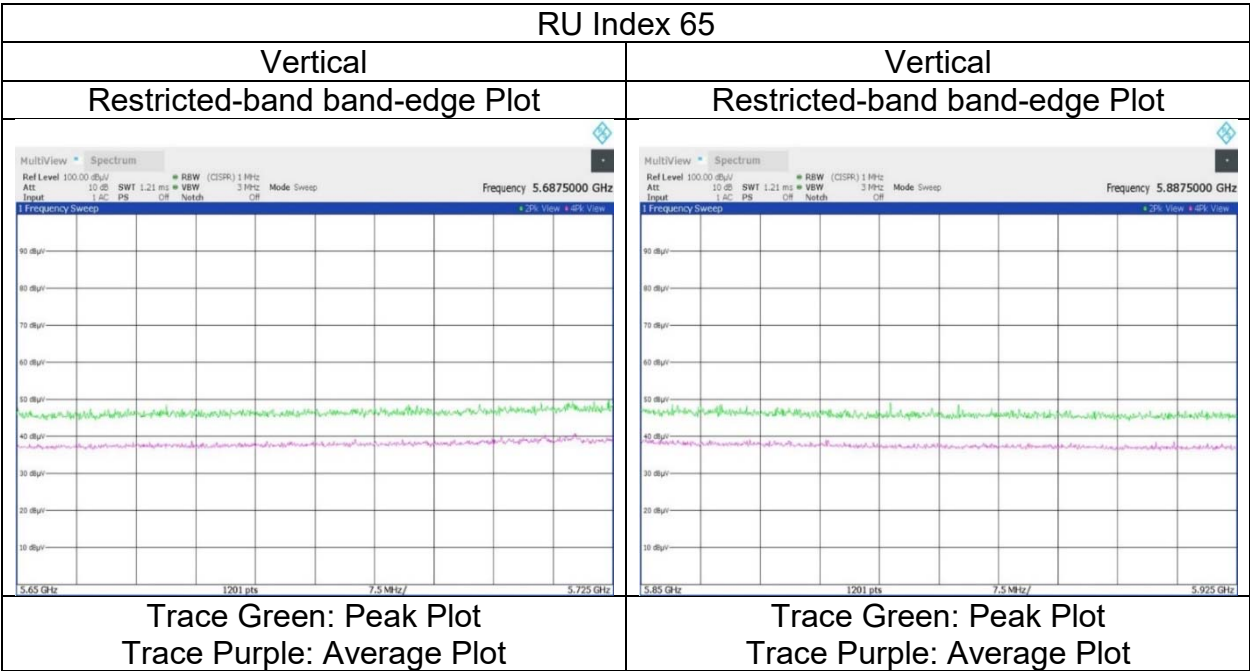
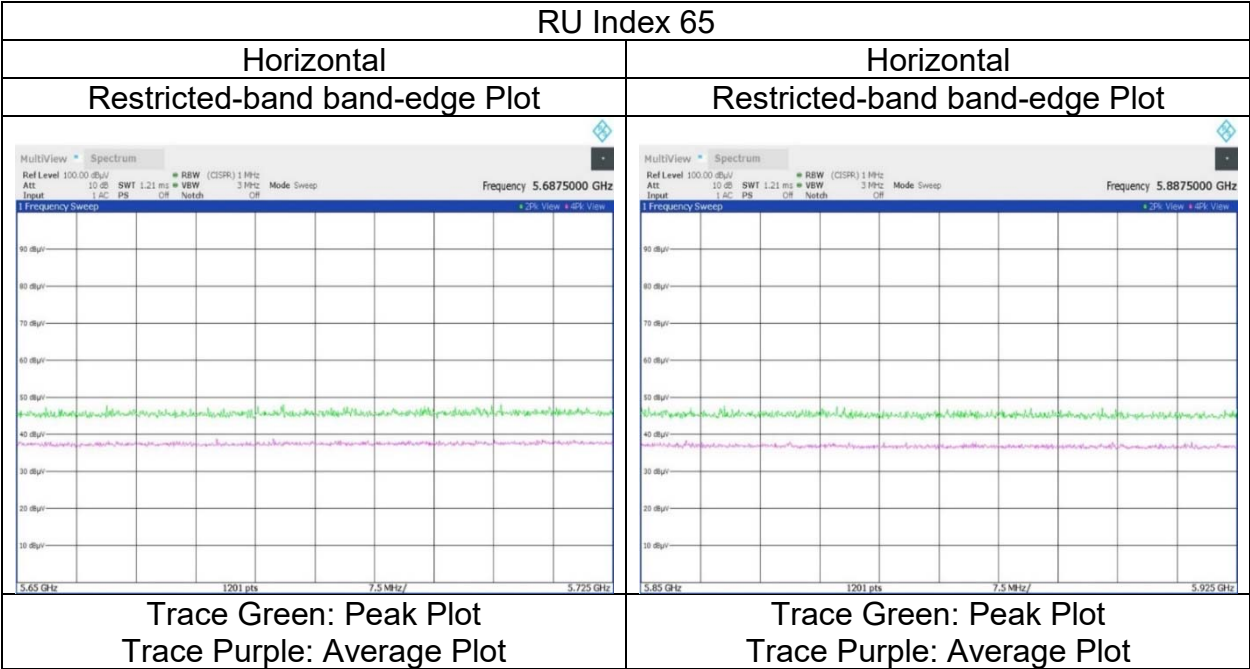
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 66

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.73	32.96	-26.58	-	2.37	56.48	-38.75	-27.0	11.7	254	131	-
Hori.	5700.000	PK	49.43	33.00	-26.56	-	2.37	58.24	-36.99	10.0	46.9	254	131	-
Hori.	5720.000	PK	49.33	33.02	-26.55	-	2.37	58.17	-37.06	15.6	52.6	254	131	-
Hori.	5725.000	PK	48.85	33.03	-26.55	-	2.37	57.70	-37.53	27.0	64.5	254	131	-
Hori.	5850.000	PK	48.97	33.13	-26.51	-	2.37	57.96	-37.27	27.0	64.2	254	131	-
Hori.	5855.000	PK	47.50	33.14	-26.51	-	2.37	56.50	-38.73	15.6	54.3	254	131	-
Hori.	5875.000	PK	47.87	33.17	-26.51	-	2.37	56.90	-38.33	10.0	48.3	254	131	-
Hori.	5925.000	PK	47.13	33.27	-26.50	-	2.37	56.27	-38.96	-27.0	11.9	254	131	-
Vert.	5650.000	PK	47.90	32.96	-26.58	-	2.37	56.65	-38.58	-27.0	11.5	227	123	-
Vert.	5700.000	PK	49.41	33.00	-26.56	-	2.37	58.22	-37.01	10.0	47.0	227	123	-
Vert.	5720.000	PK	49.47	33.02	-26.55	-	2.37	58.31	-36.92	15.6	52.5	227	123	-
Vert.	5725.000	PK	49.31	33.03	-26.55	-	2.37	58.16	-37.07	27.0	64.0	227	123	-
Vert.	5850.000	PK	48.78	33.13	-26.51	-	2.37	57.77	-37.46	27.0	64.4	227	123	-
Vert.	5855.000	PK	48.62	33.14	-26.51	-	2.37	57.62	-37.61	15.6	53.2	227	123	-
Vert.	5875.000	PK	48.42	33.17	-26.51	-	2.37	57.45	-37.78	10.0	47.7	227	123	-
Vert.	5925.000	PK	47.25	33.27	-26.50	-	2.37	56.39	-38.84	-27.0	11.8	227	123	-

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)

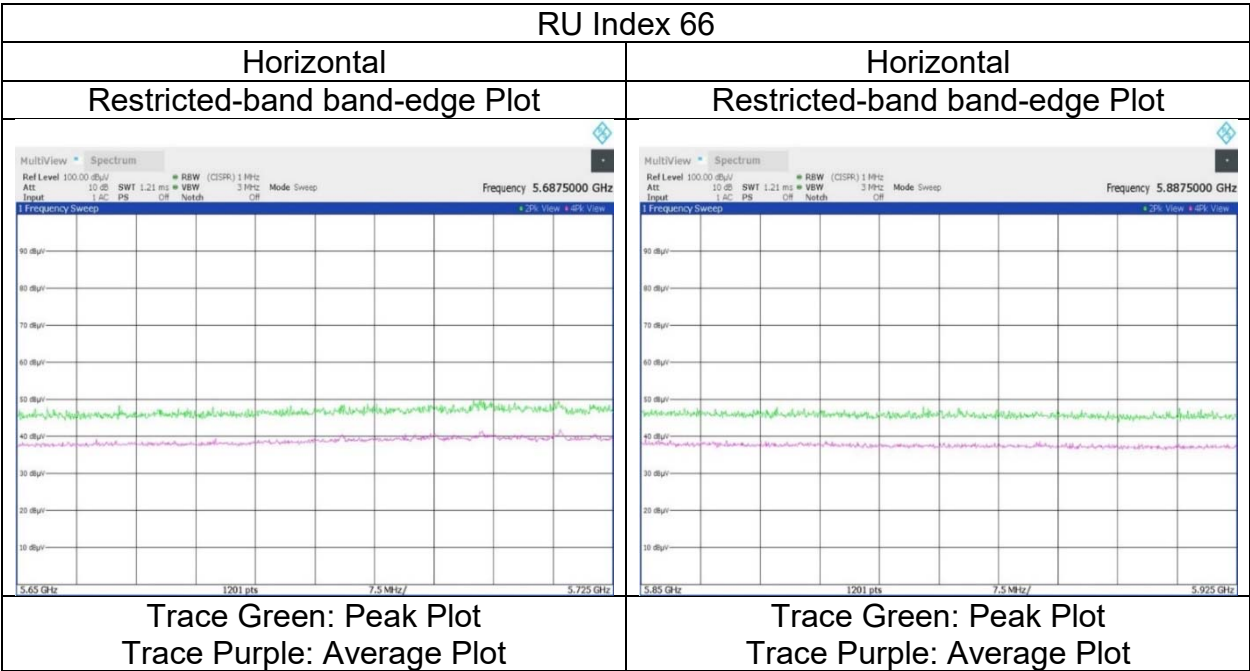
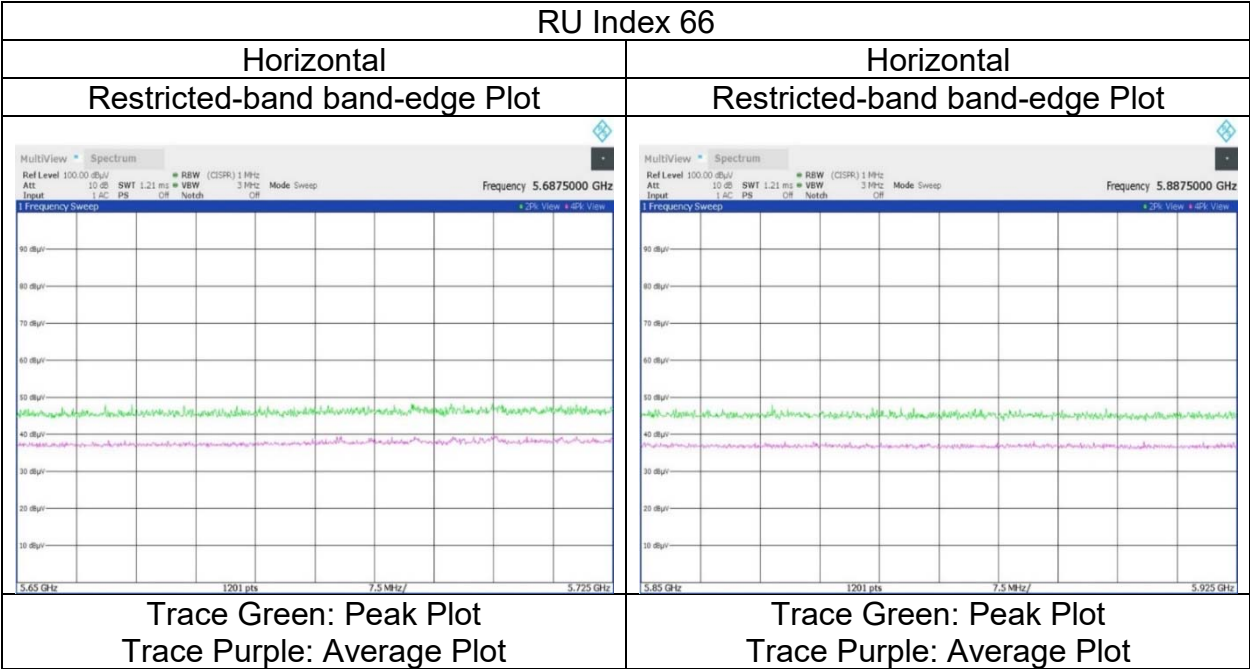
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 24, 2024
Temperature / Humidity	20 deg. C / 26 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 484-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date January 25, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Miku Ikudome
(1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5210 MHz, Ant 0 + Ant 2

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

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

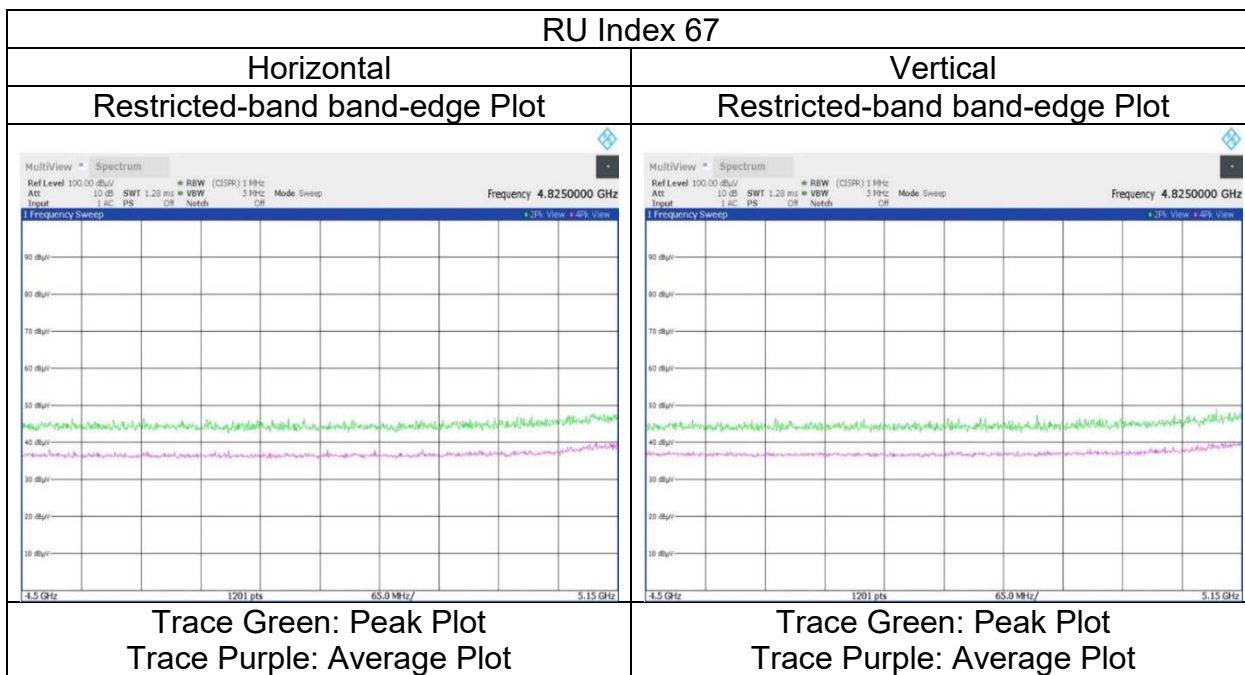
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.33	32.17	-26.97	-	2.37	56.90	73.9	17.0	345	116	-
Hori.	5150.000	AV	40.42	32.17	-26.97	-	2.37	47.99	53.9	5.9	345	116	VBW:20 kHz
Vert.	5150.000	PK	49.53	32.17	-26.97	-	2.37	57.10	73.9	16.8	154	114	-
Vert.	5150.000	AV	41.03	32.17	-26.97	-	2.37	48.60	53.9	5.3	154	114	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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 WAC2
Date January 25, 2024
Temperature / Humidity 22 deg. C / 23 % RH
Engineer Miku Ikudome
 (1 GHz to 6.4 GHz)
Mode Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5290 MHz, Ant 0 + Ant 2

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

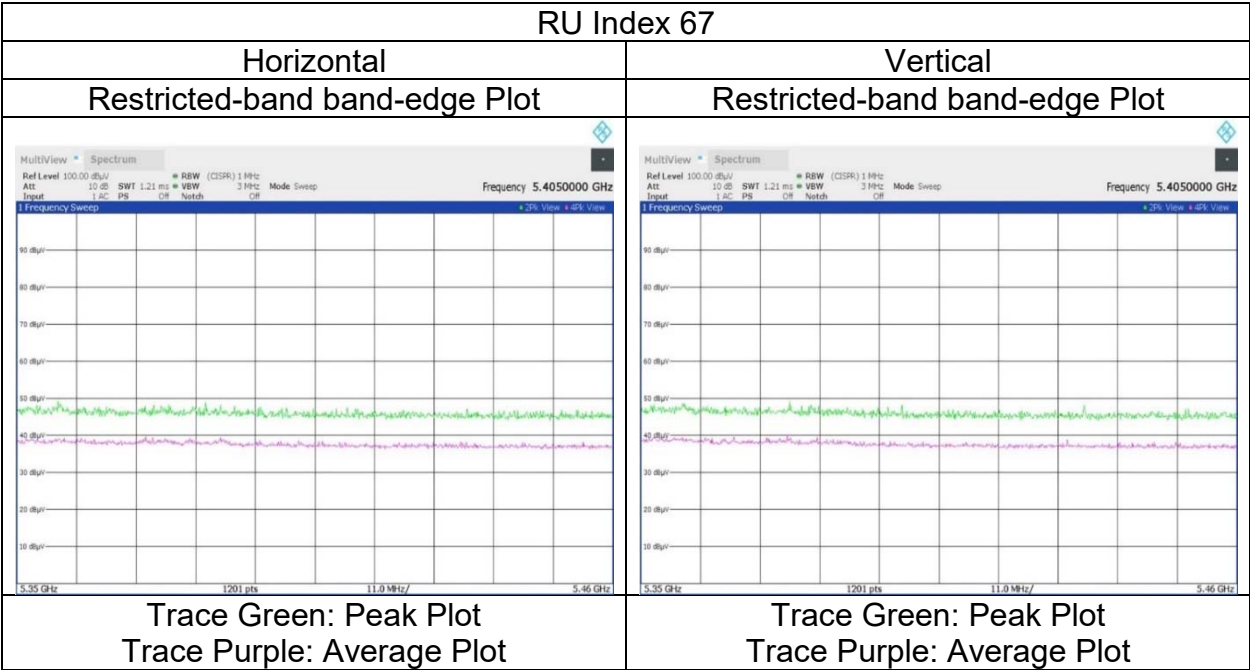
(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.62	32.16	-26.77	-	2.37	57.38	73.9	16.5	270	124	-
Hori.	5350.000	AV	39.39	32.16	-26.77	-	2.37	47.15	53.9	6.7	270	124	VBW:20 kHz
Vert.	5350.000	PK	49.81	32.16	-26.77	-	2.37	57.57	73.9	16.3	153	110	-
Vert.	5350.000	AV	39.98	32.16	-26.77	-	2.37	47.74	53.9	6.1	153	110	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.940\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$
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

Shonan EMC Lab.
WAC2
January 25, 2024
22 deg. C / 23 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5530 MHz, Ant 0 + Ant 2

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

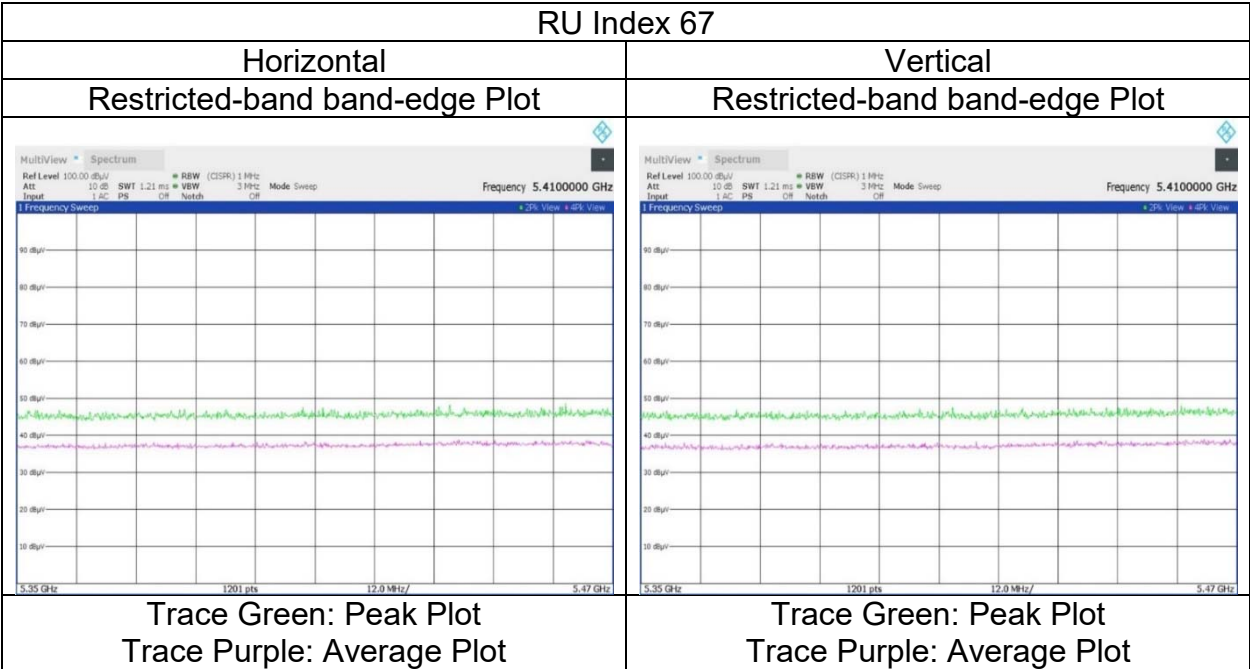
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	38.69	32.46	-26.65	-	2.37	46.87	53.9	7.0	248	128	VBW:20 kHz
Vert.	5460.000	AV	39.31	32.46	-26.65	-	2.37	47.49	53.9	6.4	252	113	VBW:20 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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.	5460.000	PK	48.59	32.46	-26.65	-	2.37	56.77	-38.46	-27.0	11.4	248	128	-
Hori.	5470.000	PK	48.63	32.49	-26.64	-	2.37	56.85	-38.38	-27.0	11.3	248	128	-
Vert.	5460.000	PK	48.65	32.46	-26.65	-	2.37	56.83	-38.40	-27.0	11.4	252	113	-
Vert.	5470.000	PK	48.60	32.49	-26.64	-	2.37	56.82	-38.41	-27.0	11.4	252	113	-

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 (3.940 m / 3.0 m) = 2.37 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

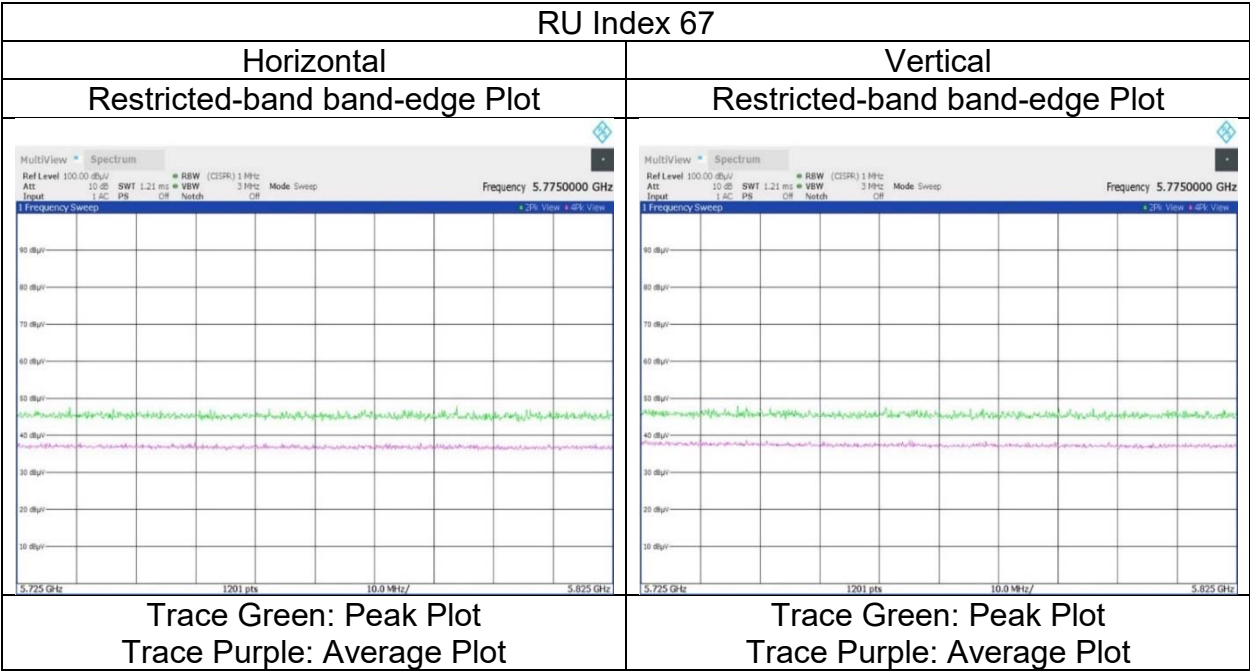
Mode

Shonan EMC Lab.
WAC2
April 16, 2024
23 deg. C / 47 % RH
Miku Ikudome
(1 GHz to 6.4 GHz)
Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5530 MHz, Ant 0 + Ant 2

RU Index 67
(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5725.000	PK	47.82	33.03	-28.99	-	2.37	54.23	-41.00	-27.0	14.0	242	131	-	-
Vert.	5725.000	PK	48.24	33.03	-28.99	-	2.37	54.65	-40.58	-27.0	13.5	221	114	-	-

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 (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 25, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Miku Ikudome
	(1 GHz to 6.4 GHz)
Mode	Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5775 MHz, Ant 0 + Ant 2

RU Index 67

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.60	32.96	-26.58	-	2.37	56.35	-38.88	-27.0	11.8	247	124	-
Hori.	5700.000	PK	48.40	33.00	-26.56	-	2.37	57.21	-38.02	10.0	48.0	247	124	-
Hori.	5720.000	PK	48.86	33.02	-26.55	-	2.37	57.70	-37.53	15.6	53.1	247	124	-
Hori.	5725.000	PK	49.21	33.03	-26.55	-	2.37	58.06	-37.17	27.0	64.1	247	124	-
Hori.	5850.000	PK	48.30	33.13	-26.51	-	2.37	57.29	-37.94	27.0	64.9	247	124	-
Hori.	5855.000	PK	47.85	33.14	-26.51	-	2.37	56.85	-38.38	15.6	53.9	247	124	-
Hori.	5875.000	PK	47.70	33.17	-26.51	-	2.37	56.73	-38.50	10.0	48.5	247	124	-
Hori.	5925.000	PK	47.27	33.27	-26.50	-	2.37	56.41	-38.82	-27.0	11.8	247	124	-
Vert.	5650.000	PK	48.60	32.96	-26.58	-	2.37	57.35	-37.88	-27.0	10.8	156	116	-
Vert.	5700.000	PK	49.82	33.00	-26.56	-	2.37	58.63	-36.60	10.0	46.6	156	116	-
Vert.	5720.000	PK	49.95	33.02	-26.55	-	2.37	58.79	-36.44	15.6	52.0	156	116	-
Vert.	5725.000	PK	49.71	33.03	-26.55	-	2.37	58.56	-36.67	27.0	63.6	156	116	-
Vert.	5850.000	PK	48.71	33.13	-26.51	-	2.37	57.70	-37.53	27.0	64.5	156	116	-
Vert.	5855.000	PK	48.36	33.14	-26.51	-	2.37	57.36	-37.87	15.6	53.4	156	116	-
Vert.	5875.000	PK	48.26	33.17	-26.51	-	2.37	57.29	-37.94	10.0	47.9	156	116	-
Vert.	5925.000	PK	47.82	33.27	-26.50	-	2.37	56.96	-38.27	-27.0	11.2	156	116	-

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)

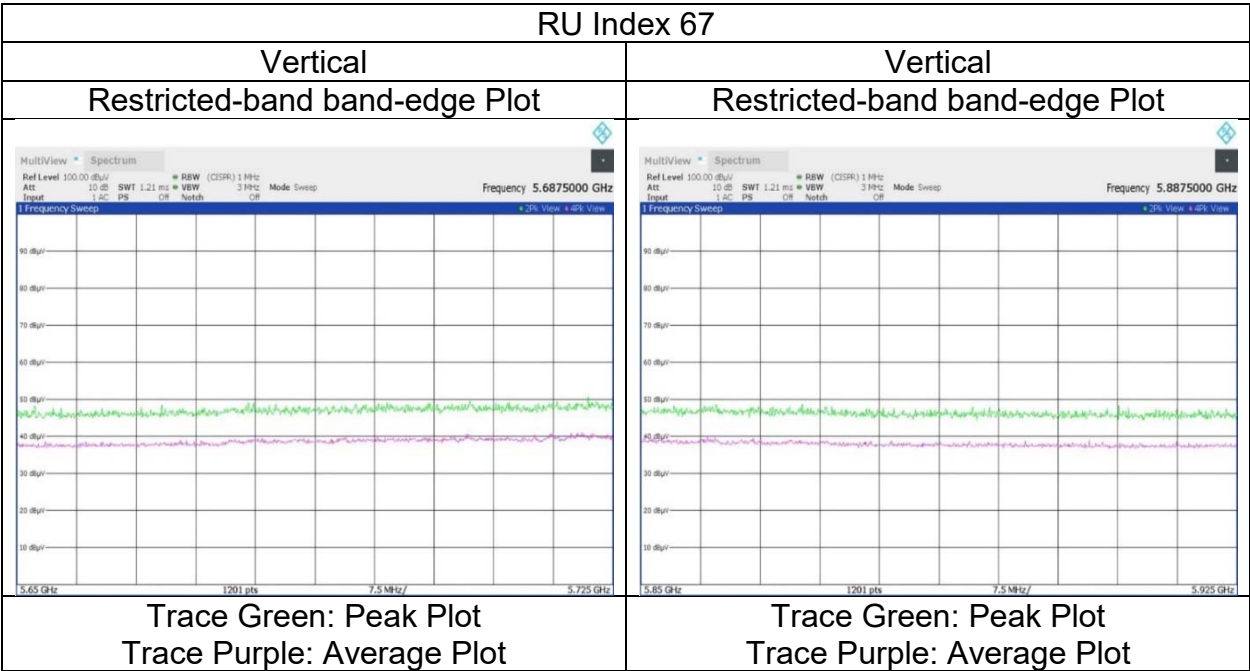
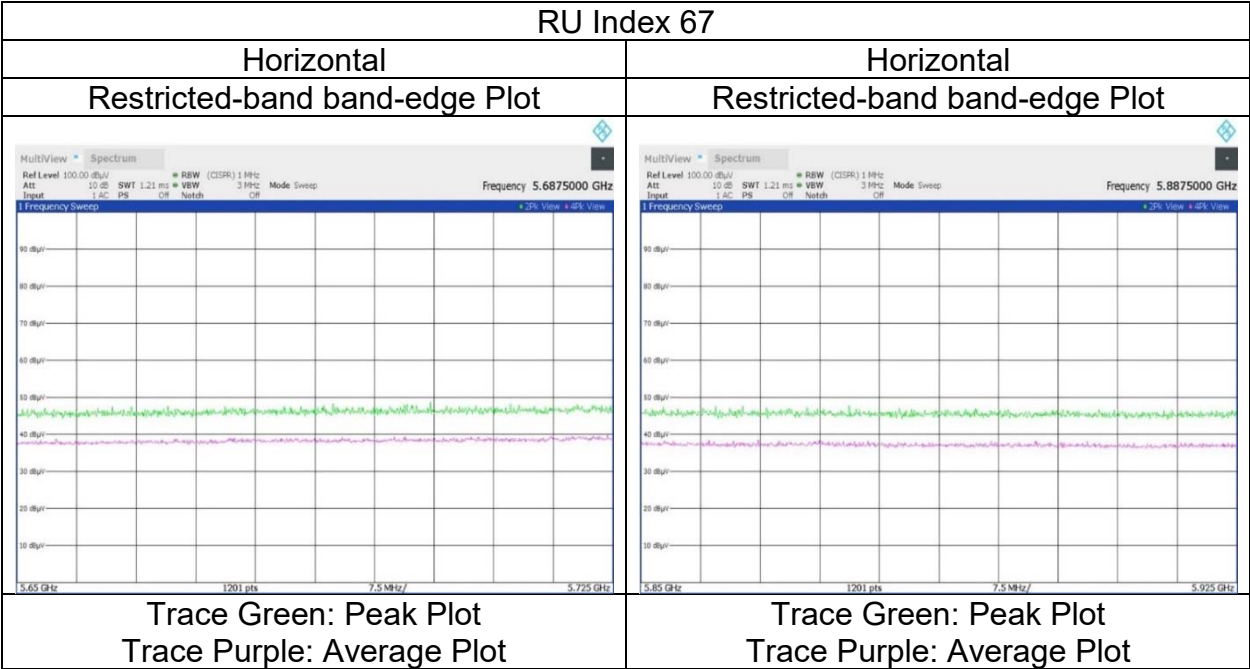
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.940 m / 3.0 m) = 2.37 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	WAC2
Date	January 25, 2024
Temperature / Humidity	22 deg. C / 23 % RH
Engineer	Miku Ikudome
Mode	Tx 11ax-80 (OFDMA)(SDM) 996-tone RU 5775 MHz, Ant 0 + Ant 2



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2 WAC2 WAC2
Date December 19, 2023 April 16, 2024 April 17, 2024
Temperature / Humidity 18 deg. C / 30 % RH 23 deg. C / 47 % RH 23 deg. C / 47 % RH
Engineer Makoto Hosaka Yosuke Murakami Yosuke Murakami
(1 GHz to 6.4 GHz) (6.4 GHz to 18 GHz) (18 GHz to 40 GHz)
Mode Tx 11ax-80 (OFDM)(SDM) 5210 MHz, Ant 0 + Ant 2 With BT 3DH5 Hopping, Ant 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	50.94	32.17	-25.85	-	2.37	59.63	73.9	14.2	172	83	-
Hori.	15630.000	PK	47.63	39.55	-32.46	-	-9.54	45.18	73.9	28.7	150	0	Floor noise
Hori.	5150.000	AV	42.20	32.17	-25.85	-	2.37	50.89	53.9	3.0	172	83	VBW: 20 kHz
Hori.	15630.000	AV	38.41	39.55	-32.46	-	-9.54	35.96	53.9	17.9	150	0	VBW: 20 kHz, Floor noise
Vert.	5150.000	PK	50.29	32.17	-25.85	-	2.37	58.98	73.9	14.9	171	123	-
Vert.	15630.000	PK	47.60	39.55	-32.46	-	-9.54	45.15	73.9	28.7	150	0	Floor noise
Vert.	5150.000	AV	41.40	32.17	-25.85	-	2.37	50.09	53.9	3.8	171	123	VBW: 20 kHz
Vert.	15630.000	AV	38.40	39.55	-32.46	-	-9.54	35.95	53.9	17.9	150	0	VBW: 20 kHz, 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 (3.94 m / 3.0 m) = 2.37 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.	10420.000	PK	48.16	36.27	-33.94	-	-9.54	40.95	-54.28	-27.0	27.2	146	236	-
Vert.	10420.000	PK	47.10	36.27	-33.94	-	-9.54	39.89	-55.34	-27.0	28.3	208	218	-

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 (3.94 m / 3.0 m) = 2.37 dB

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

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2
Date April 22, 2024
Temperature / Humidity 22 deg. C / 55 % RH
Engineer Kouki Yamada
(Below 1 GHz)
Mode Tx 11ax-20 (OFDM)(SDM) 5180 MHz, Ant 0 + Ant 2 With BT 3DH5 Hopping, Ant 0

(below 1 GHz)

(* PK: Peak, AV: 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.	189.300	QP	41.30	13.84	7.17	32.98	0.00	29.33	43.5	14.1	181	78	-
Hori.	363.304	QP	42.80	15.08	7.63	32.59	0.00	32.92	46.0	13.0	100	70	-
Vert.	38.860	QP	44.20	11.72	6.31	32.76	0.00	29.47	40.0	10.5	100	324	-
Vert.	58.663	QP	47.20	9.59	6.38	32.99	0.00	30.18	40.0	9.8	100	106	-
Vert.	66.731	QP	44.10	9.37	6.39	33.03	0.00	26.83	40.0	13.1	100	87	-
Vert.	69.608	QP	41.40	9.28	6.44	33.05	0.00	24.07	40.0	15.9	100	120	-
Vert.	84.221	QP	43.90	8.96	6.83	33.07	0.00	26.62	40.0	13.3	100	103	-
Vert.	103.045	QP	46.80	9.65	6.89	33.08	0.00	30.26	43.5	13.2	100	113	-
Vert.	480.021	QP	40.90	17.19	7.92	32.30	0.00	33.71	46.0	12.2	100	166	-

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

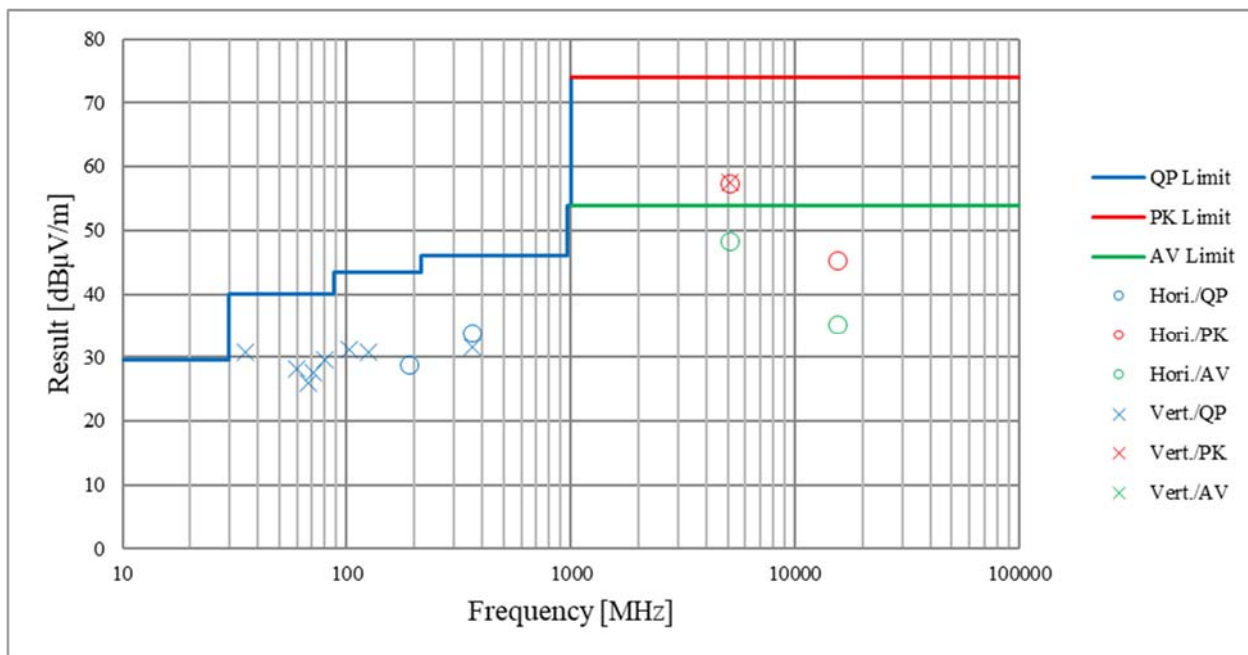
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2
Date	April 22, 2024	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	22 deg. C / 55 % RH	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kouki Yamada (Below 1 GHz)	Kenichi Adachi (1 GHz to 10 GHz)	Kouki Yamada (10 GHz to 18 GHz)	Kouki Yamada (Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5180 MHz, Ant 0 + Ant 2			

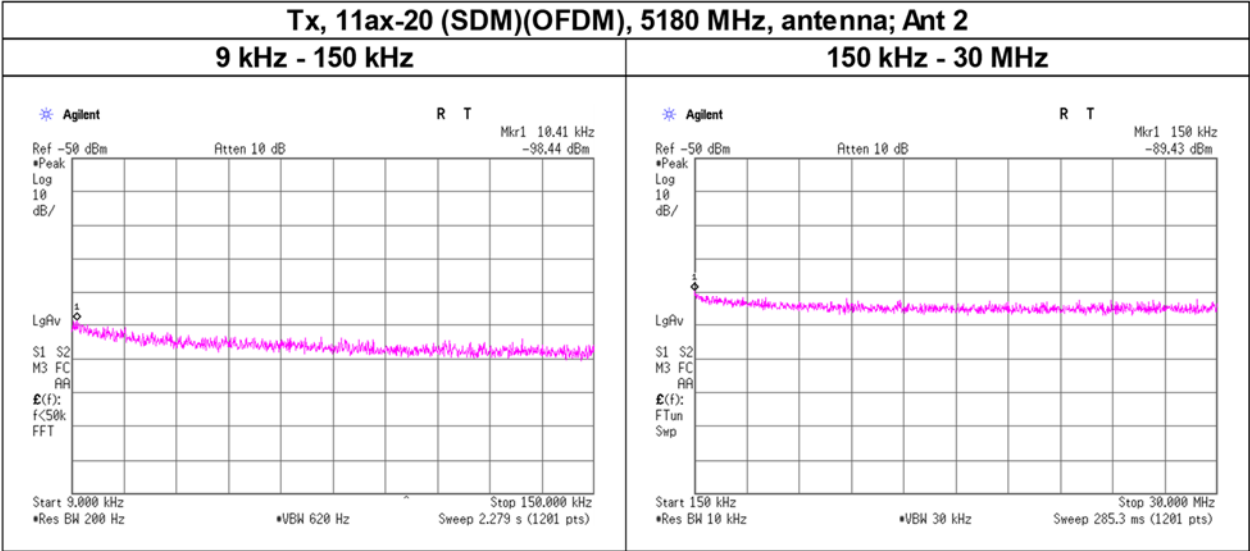


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.1 Measurement Room
February 5, 2024
23 deg. C / 32 % RH
Kazuya Noda
Tx



FREQ	Reading	Cable Loss	Attenuator Loss	Antenna Gain *1)	N (Number of output)	EIRP	Distance	Ground bounce	E (field Strength)	Limit	Margin
[kHz]	[dBm]	[dB]	[dB]			[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
10.4	-98.44	0.0	9.9	4.07	2	-81.44	300.00	6.00	-20.19	47.20	67.39
150.0	-89.43	0.0	9.9	4.07	2	-72.43	300.00	6.00	-11.17	24.00	35.17

E [dBuV/m] = EIRP [dBm] - 20 x log (Distance [m]) + Ground bounce [dB] + 104.8 [dBuV/m]
EIRP [dBm] = Reading [dBm] + Cable Loss [dB] + Attenuator Loss [dB] + Antenna Gain [dBi] + 10 x log (N)
N: Number of output port

APPENDIX 2: Test Instruments

Test Equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	145095	Digital Tester	SANWA	PC500	7019224	2024/05/29	12
AT	145132	Attenuator	Weinschel Corp.	54A-10	W5692	2024/10/10	12
AT	145800	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250106	2024/03/25	12
AT	146062	Terminator	Hirose Electric	HRM-TMP-05(40)	-	-	-
AT	160899	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46185516	-	-
AT	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2024/09/11	12
AT	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2024/09/11	12
AT	169912	Power sensor	Keysight Technologies Inc	N1923A	MY57290005	2024/09/11	12
AT	171615	Terminator	Weinschel - API Technologies Corp	M1459A	88997	2024/05/09	12
AT	171616	Terminator	Weinschel - API Technologies Corp	M1459A	89025	2024/05/09	12
AT	191845	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/07	12
AT	191846	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/07	12
AT	196942	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803416/2	2024/03/07	12
AT	196946	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803411/2	2024/03/07	12
AT	204927	Attenuator	Weinschel Corp.	54A-10	109972	2024/02/09	12
AT	204928	Attenuator	Weinschel Corp.	54A-10	109973	2024/02/09	12
AT	235737	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	12
AT	239653	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	2001221/2	2024/08/20	12
AT	242076	Terminator	Weinschel - API Technologies Corp	M1459A	121090	2024/11/06	12
AT,RE	235640	DIGITAL MULTIMETER	HIOKI E.E. CORPORATION	DT4261	230313157	2024/05/29	12
CE	144969	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS 4906	-/0901-270(RF Selector)	2024/04/10	12
CE	145539	LISN	Rohde & Schwarz	ENV216	100512	2024/02/06	12
CE	145541	LISN	Rohde & Schwarz	ENV216	100514	2024/02/06	12
CE	145793	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997819	2024/05/29	12
CE	146188	Terminator	TME	CT-01 BP	-	2024/11/21	12
CE	150923	Attenuator	JFW	50HF-003N	-	2024/02/13	12
CE	191839	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2023/08/01	12
CE	207277	Tape Measure	ASKUL	-	-	-	-
CE	213530	Test Receiver	Rohde & Schwarz	ESW44	103068	2024/02/22	12
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0546	-	-
RE	144878	Pre Amplifier	Hewlett Packard	8449B	3008A01268	2024/04/04	12
RE	144938	Highpass Filter	Micro-Tronics	HPM50112	7	2024/10/10	12
RE	145008	Pre Amplifier	Toyo Corporation	HAP18-26W	18	2024/08/21	12
RE	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	B3208602403-176	2024/05/09	12
RE	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2024/10/10	12
RE	145137	Attenuator	Keysight Technologies Inc	8493C-010	74865	2024/10/10	12
RE	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2024/08/21	12
RE	145377	Highpass Filter	Micro-Tronics	HPM50112	28	2024/10/10	12
RE	145513	Horn Antenna	ETS-Lindgren	3160-09	00094867	2024/06/20	12
RE	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2024/06/20	12
RE	145528	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	195	2024/04/10	12
RE	150463	Test Receiver	Rohde & Schwarz	ESW44	101581	2024/08/06	12
RE	151788	Antenna Tilt Jig	Intelligent System Engineering Co., Ltd	ETi-5	1512004-006-052	-	-
RE	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2024/03/05	12

Test Equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	192293	Attenuator	JFW	50HF-010N	-	2023/12/08	12
RE	199783	Attenuator	JFW	50HF-006N	-	2024/06/14	12
RE	200008	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	575616/4	2024/06/05	12
RE	207281	Tape Measure	ASKUL	-	-	-	-
RE	235268	Test Receiver	Rohde & Schwarz	ESW44	103212	2023/12/26	12
RE	235738	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	12
RE	236584	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000112	2024/04/04	12
RE	236615	Semi-Anechoic Chamber	TDK	SWAC-02(NSA)	2	2024/05/10	12
RE	236617	Semi-Anechoic Chamber	TDK	SWAC-02(SVSWR)	2	2024/06/06	12
RE	236687	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	788	2024/04/04	12
RE	236709	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-SMS117B-2m	47256-02-04	2024/05/09	12
RE	236711	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-7.0m	47256-03-02	2024/05/09	12
RE	236720	Coaxial Cable	Huber+Suhner	SF106/SF106/SF106	2001167/2001168/2001161	2024/05/10	12
RE	236724	Coaxial Cable	Hayashi-Repic co., Ltd.	SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C	2000430/47753-2/47256-01-04/47256-01-02	2024/05/10	12
RE	236756	Coaxial Cable	Huber+Suhner	SF106/11N/11N/6000	2001167	2024/05/10	12
RE	236802	Antenna Tilt Jig	Intelligent System Engineering Co., Ltd	Antenna Tilt Jig	1512004-0020-052	-	-
RE	236967	Pre Amplifier	TSJ (Techno Science Japan)	MLA-9K01-L01	23050010	2024/06/14	12
RE	237786	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07796	2024/11/12	12
RE	239644	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S022	2024/08/21	12
RE	239647	Coaxial Cable	To-Conne Co., Ltd.	TC-048-2.92P-2.92J-1000	-	-	-
RE	239787	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124+BBA9106	01908	2024/08/10	12

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

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

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

Test item:

AT: Antenna Terminal Conducted test
CE: Conducted Emission
RE: Radiated Emission