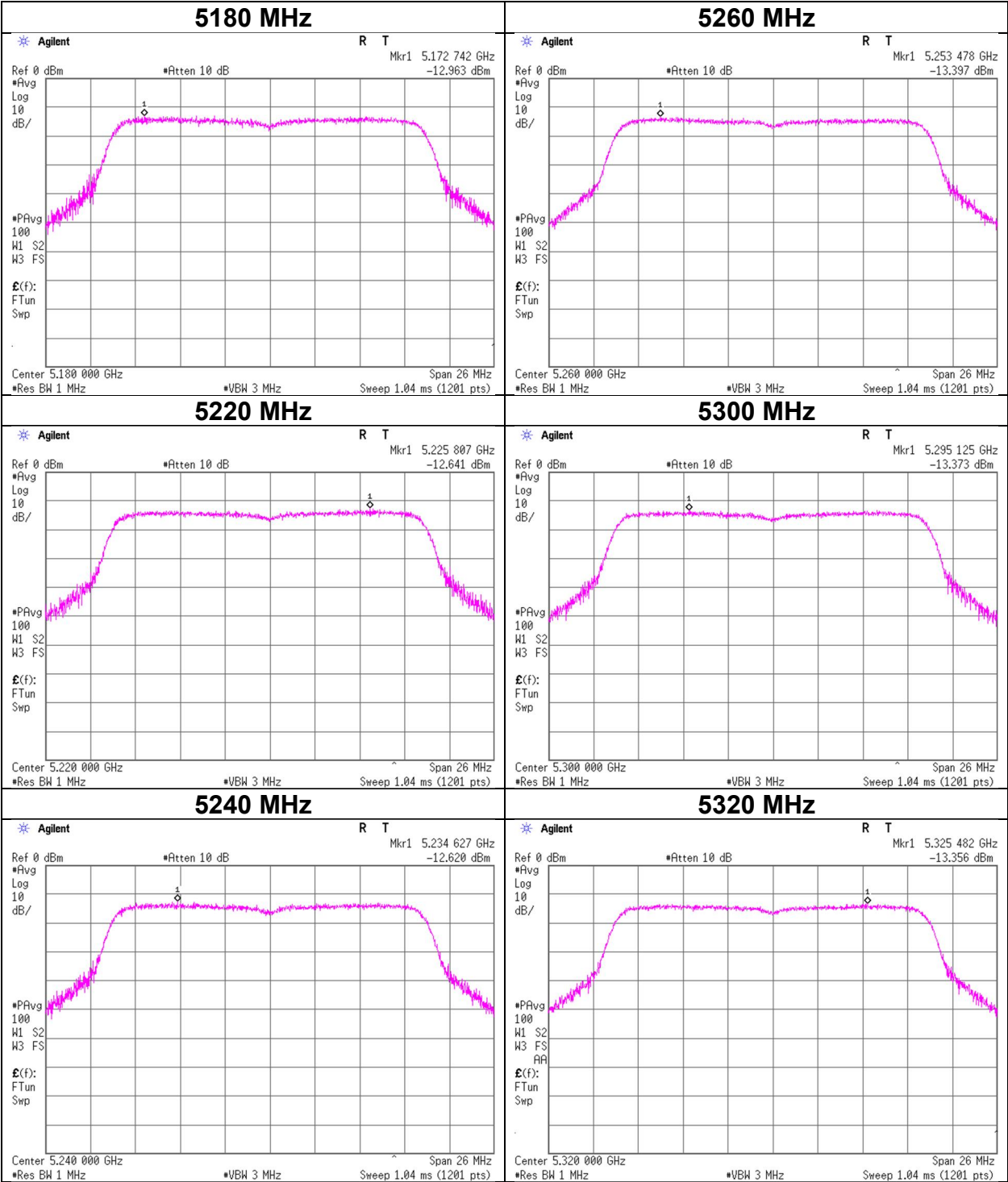


Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	October 1, 2024
Temperature / Humidity	25 deg. C / 58 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-20

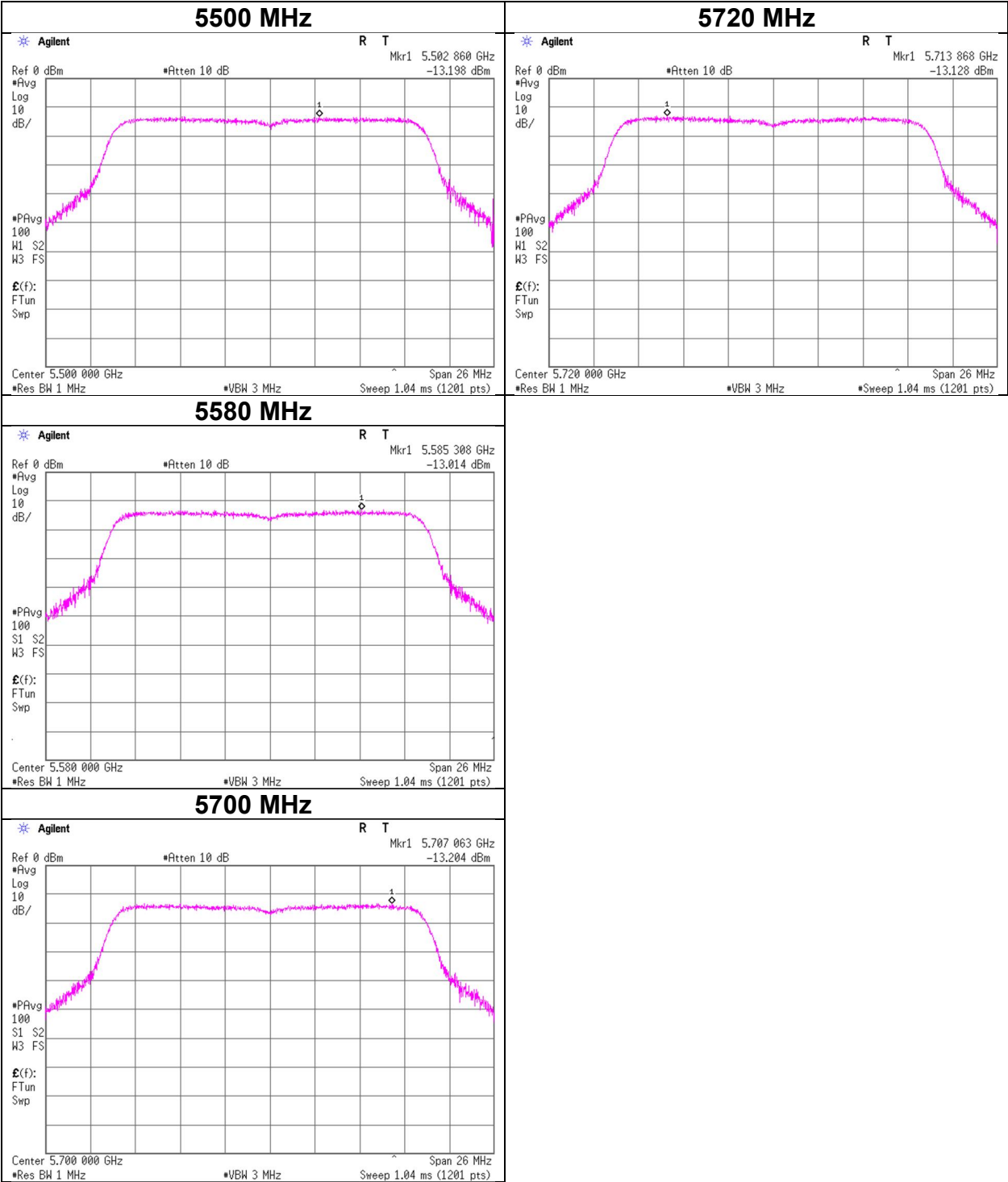
11ac-20



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	October 1, 2024
Temperature / Humidity	25 deg. C / 58 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-20

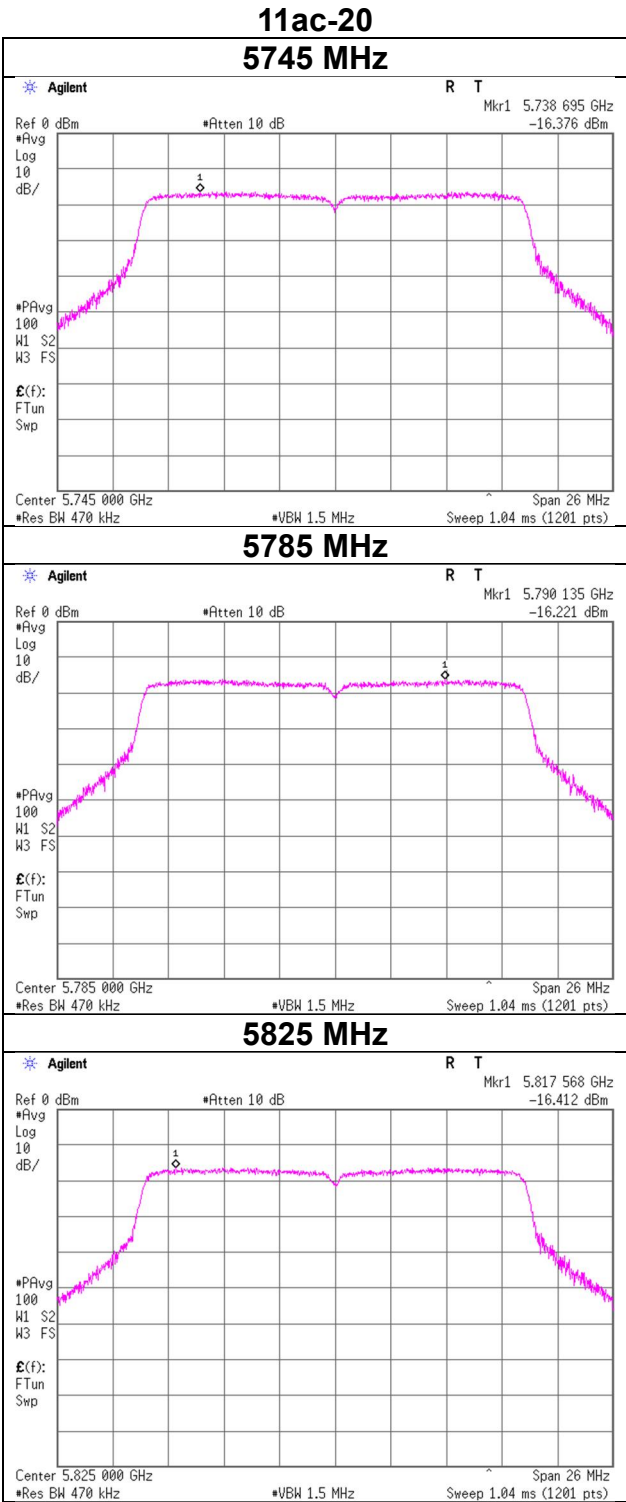
11ac-20



Maximum Power Spectral Density

Test place
Date
Temperature / Humidity
Engineer
Mode

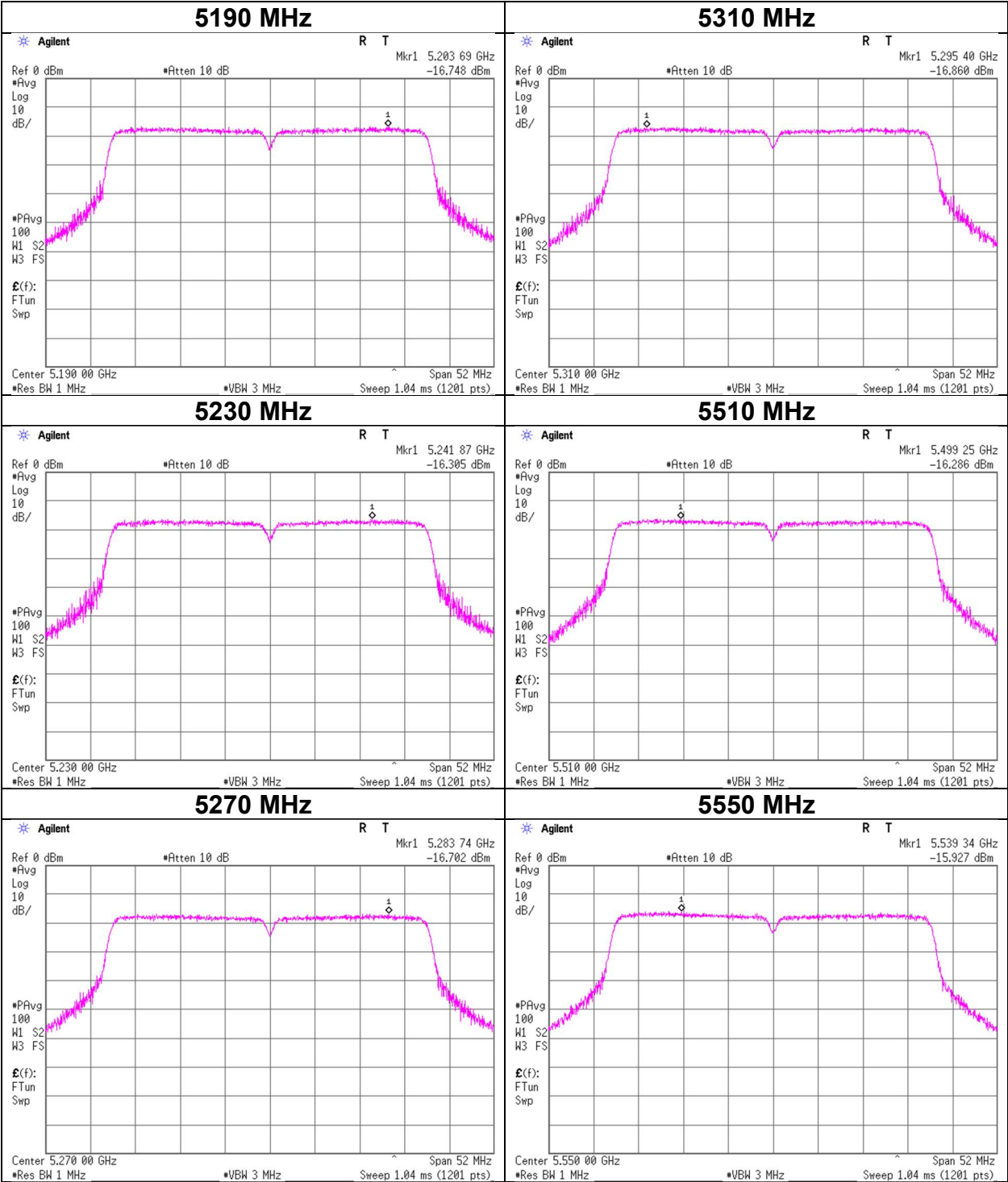
Shonan EMC Lab. No.5 Shielded Room
October 1, 2024
25 deg. C / 58 % RH
Yosuke Murakami
Tx 11ac-20



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	October 2, 2024
Temperature / Humidity	25 deg. C / 53 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-40

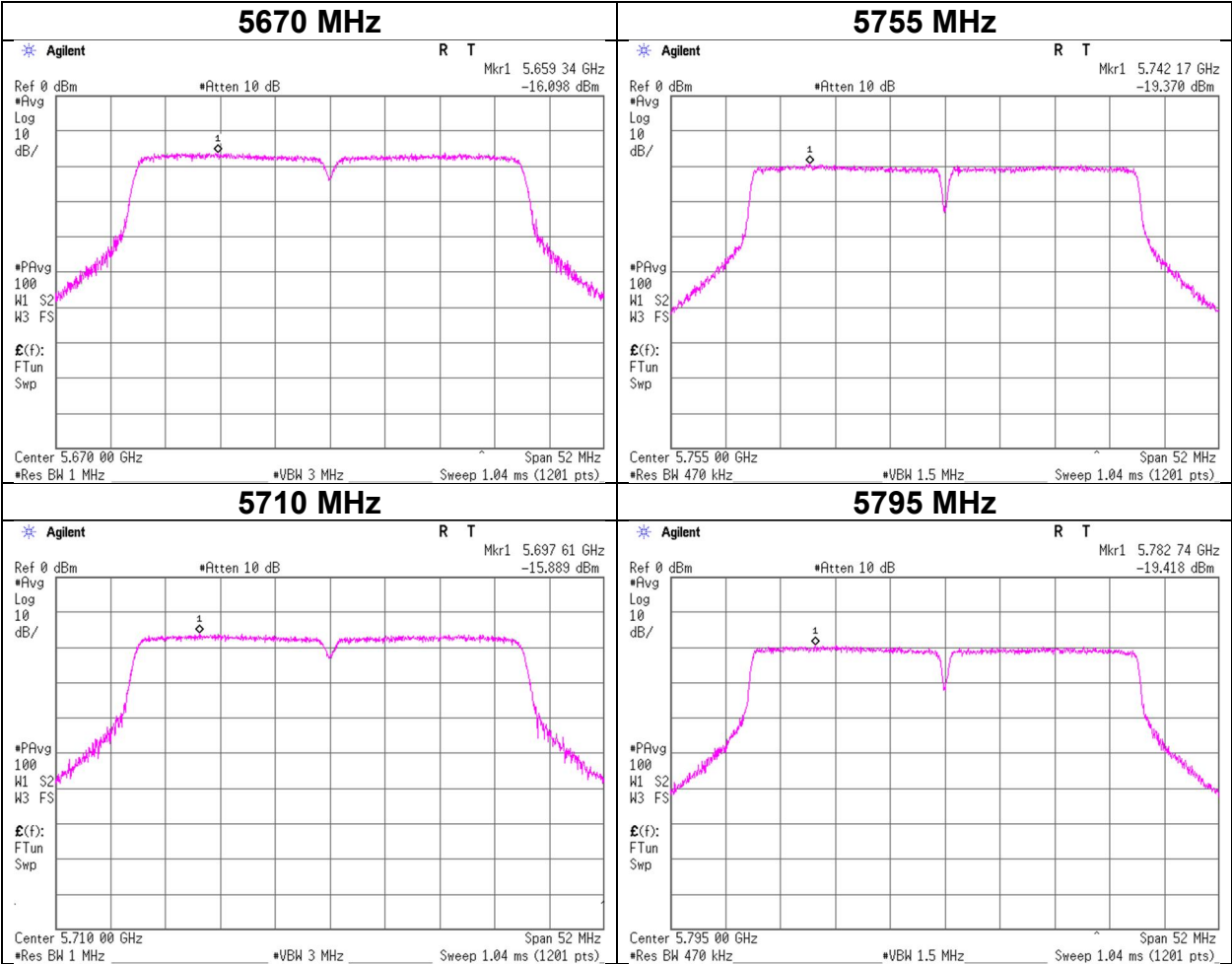
11ac-40



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	October 2, 2024
Temperature / Humidity	25 deg. C / 53 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-40

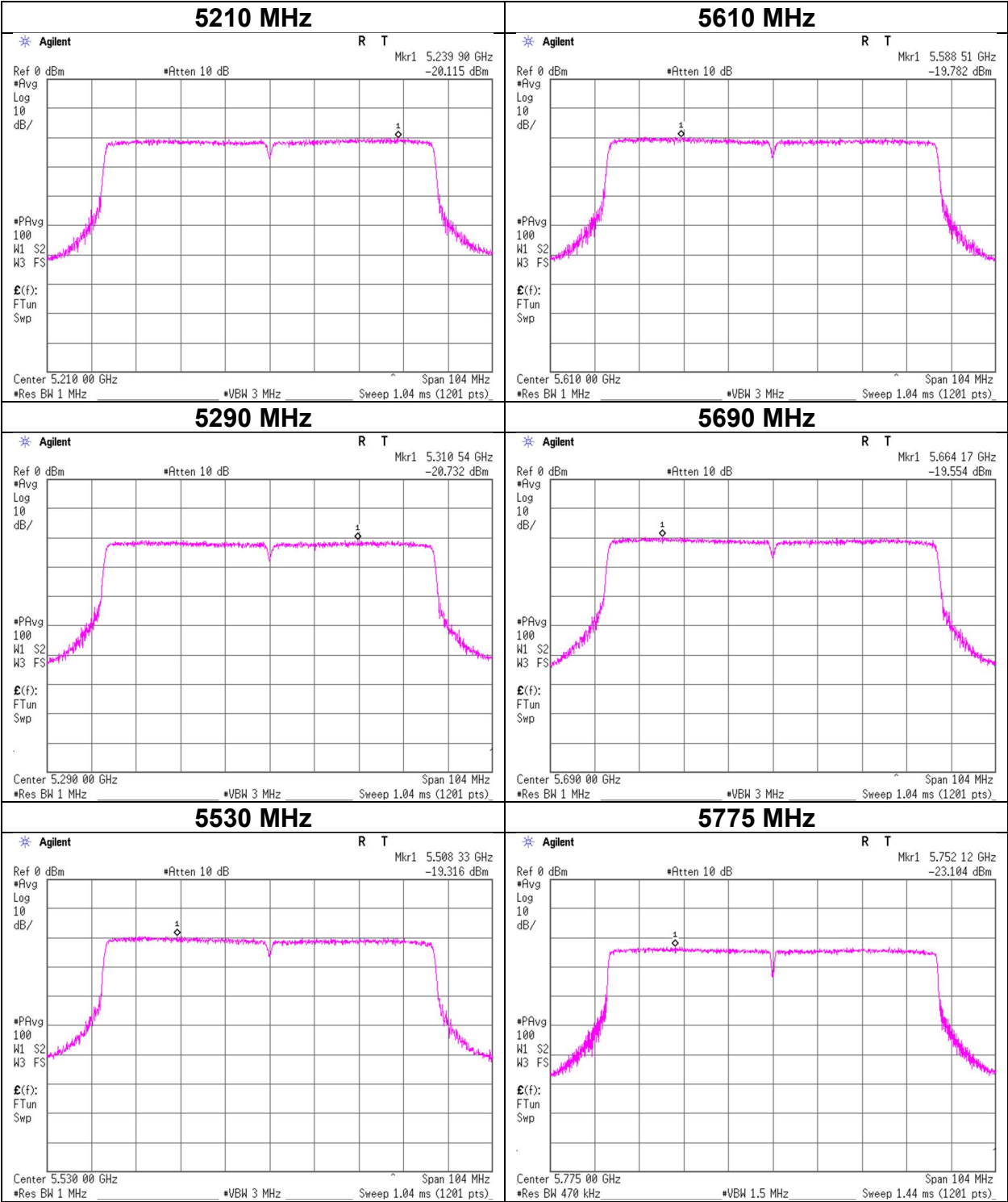
11ac-40



Maximum Power Spectral Density

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	October 2, 2024
Temperature / Humidity	25 deg. C / 53 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-80

11ac-80



Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5180 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.00	32.58	-26.65	-	2.19	58.12	73.9	15.7	210	58	
Hori.	15540.000	PK	47.25	39.64	-30.80	-	-9.54	46.55	73.9	27.3	150	0	Floor Noise
Hori.	20720.000	PK	44.86	40.12	14.51	47.00	-9.54	42.95	73.9	30.9	316	76	
Hori.	5150.000	AV	34.61	32.58	-26.65	-	2.19	42.73	53.9	11.1	210	58	VBW: 500 Hz
Hori.	15540.000	AV	33.90	39.64	-30.80	-	-9.54	33.20	53.9	20.7	150	0	Floor Noise
Hori.	20720.000	AV	30.40	40.12	14.51	47.00	-9.54	28.49	53.9	25.4	316	76	VBW: 500 Hz
Vert.	5150.000	PK	48.51	32.58	-26.65	-	2.19	56.63	73.9	17.2	300	30	
Vert.	15540.000	PK	47.45	39.64	-30.80	-	-9.54	46.75	73.9	27.1	150	0	Floor Noise
Vert.	20720.000	PK	50.26	40.12	14.51	47.00	-9.54	48.35	73.9	25.5	216	337	
Vert.	5150.000	AV	34.16	32.58	-26.65	-	2.19	42.28	53.9	11.6	300	30	VBW: 500 Hz
Vert.	15540.000	AV	34.00	39.64	-30.80	-	-9.54	33.30	53.9	20.6	150	0	Floor Noise
Vert.	20720.000	AV	35.98	40.12	14.51	47.00	-9.54	34.07	53.9	19.8	216	337	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6906.637	PK	54.80	35.81	-34.54	-	-	2.19	58.26	-36.97	-27.0	9.9	133	142	-
Hori.	10360.000	PK	57.48	36.26	-33.63	-	-	-9.54	50.57	-44.66	-27.0	17.6	138	41	-
Vert.	6906.637	PK	53.47	35.81	-34.54	-	-	2.19	56.93	-38.30	-27.0	11.3	395	4	-
Vert.	10360.000	PK	49.54	36.26	-33.63	-	-	-9.54	42.63	-52.60	-27.0	25.6	234	32	-

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

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

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

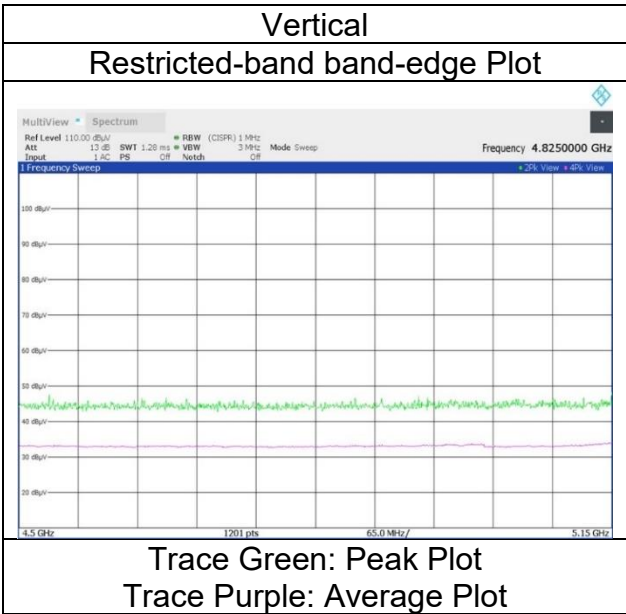
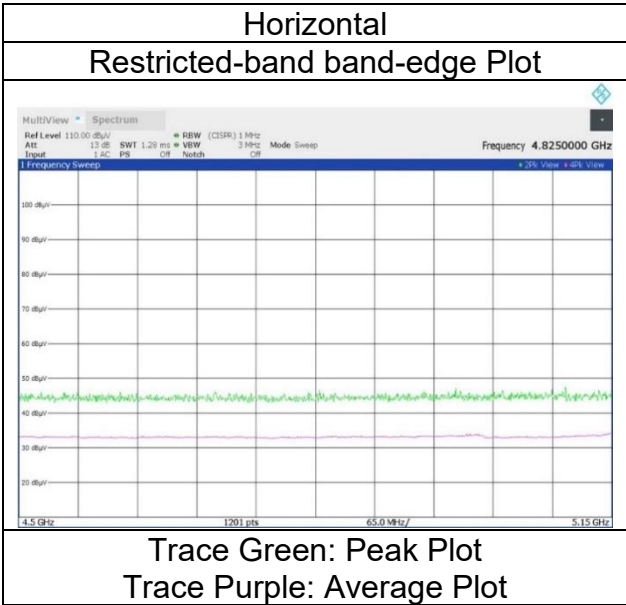
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11a 5180 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	
Mode	Tx 11a 5240 MHz		

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	47.91	39.78	-30.85	-	-9.54	47.30	73.9	26.6	150	0	Floor Noise
Hori.	20960.000	PK	45.04	40.05	14.66	47.07	-9.54	43.14	73.9	30.7	332	77	-
Hori.	15720.000	AV	34.07	39.78	-30.85	-	-9.54	33.46	53.9	20.4	150	0	Floor Noise
Hori.	20960.000	AV	30.32	40.05	14.66	47.07	-9.54	28.42	53.9	25.4	332	77	VBW: 500 Hz
Vert.	15720.000	PK	47.72	39.78	-30.85	-	-9.54	47.11	73.9	26.7	150	0	Floor Noise
Vert.	20960.000	PK	48.60	40.05	14.66	47.07	-9.54	46.70	73.9	27.2	222	337	-
Vert.	15720.000	AV	33.98	39.78	-30.85	-	-9.54	33.37	53.9	20.5	150	0	Floor Noise
Vert.	20960.000	AV	35.52	40.05	14.66	47.07	-9.54	33.62	53.9	20.2	222	337	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6986.616	PK	55.83	35.77	-34.52	-	-	2.19	59.27	-35.96	-27.0	8.9	130	152	-
Hori.	10480.000	PK	56.63	36.42	-33.44	-	-	-9.54	50.07	-45.16	-27.0	18.1	139	40	-
Vert.	6986.616	PK	53.62	35.77	-34.52	-	-	2.19	57.06	-38.17	-27.0	11.1	400	4	-
Vert.	10480.000	PK	48.72	36.42	-33.44	-	-	-9.54	42.16	-53.07	-27.0	26.0	159	4	-

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

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5320 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.30	32.42	-26.42	-	2.19	57.49	73.9	16.4	179	42	-
Hori.	10640.000	PK	52.95	37.03	-33.32	-	-9.54	47.12	73.9	26.7	133	38	-
Hori.	15960.000	PK	47.52	40.08	-30.93	-	-9.54	47.13	73.9	26.7	150	0	Floor Noise
Hori.	21280.000	PK	44.45	40.09	14.77	47.05	-9.54	42.72	73.9	31.1	280	74	-
Hori.	5350.000	AV	36.23	32.42	-26.42	-	2.19	44.42	53.9	9.4	179	42	VBW: 500 Hz
Hori.	10640.000	AV	42.20	37.03	-33.32	-	-9.54	36.37	53.9	17.5	133	38	VBW: 500 Hz
Hori.	15960.000	AV	33.92	40.08	-30.93	-	-9.54	33.53	53.9	20.3	150	0	Floor Noise
Hori.	21280.000	AV	30.89	40.09	14.77	47.05	-9.54	29.16	53.9	24.7	280	74	VBW: 500 Hz
Vert.	5350.000	PK	49.36	32.42	-26.42	-	2.19	57.55	73.9	16.3	292	33	-
Vert.	10640.000	PK	49.69	37.03	-33.32	-	-9.54	43.86	73.9	30.0	199	198	-
Vert.	15960.000	PK	47.27	40.08	-30.93	-	-9.54	46.88	73.9	27.0	150	0	Floor Noise
Vert.	21280.000	PK	46.82	40.09	14.77	47.05	-9.54	45.09	73.9	28.8	199	165	-
Vert.	5350.000	AV	35.75	32.42	-26.42	-	2.19	43.94	53.9	9.9	292	33	VBW: 500 Hz
Vert.	10640.000	AV	38.03	37.03	-33.32	-	-9.54	32.20	53.9	21.7	199	198	VBW: 500 Hz
Vert.	15960.000	AV	33.84	40.08	-30.93	-	-9.54	33.45	53.9	20.4	150	0	Floor Noise
Vert.	21280.000	AV	36.24	40.09	14.77	47.05	-9.54	34.51	53.9	19.3	199	165	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7093.292	PK	55.10	35.81	-34.40	-	-	2.19	58.70	-36.53	-27.0	9.5	185	131	-
Vert.	7093.292	PK	53.79	35.81	-34.40	-	-	2.19	57.39	-37.84	-27.0	10.8	386	20	-

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

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

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

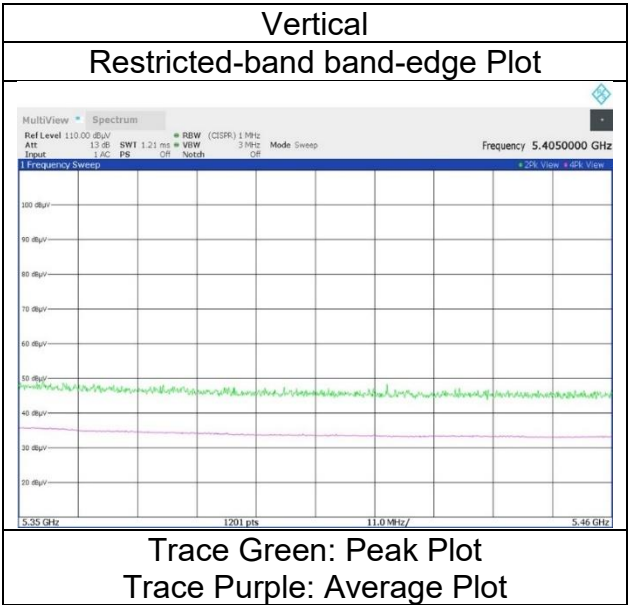
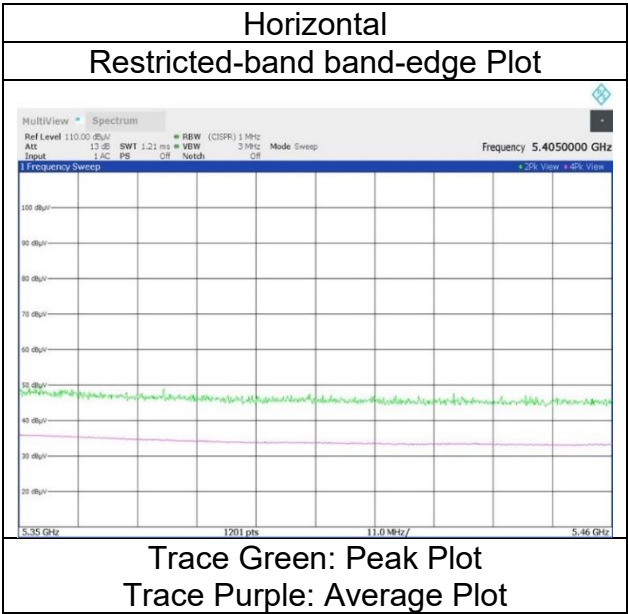
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11a 5320 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5500 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7333.316	PK	52.58	36.65	-34.07	-	2.19	57.35	73.9	16.5	133	130	-
Hori.	11000.000	PK	51.27	37.44	-33.14	-	-9.54	46.03	73.9	27.8	134	47	-
Hori.	5460.000	AV	35.11	32.85	-26.30	-	2.19	43.85	53.9	10.0	159	34	VBW: 500 Hz
Hori.	7333.316	AV	48.80	36.65	-34.07	-	2.19	53.57	53.9	0.3	133	130	VBW: 500 Hz
Hori.	11000.000	AV	40.95	37.44	-33.14	-	-9.54	35.71	53.9	18.1	134	47	VBW: 500 Hz
Vert.	7333.304	PK	51.03	36.65	-34.07	-	2.19	55.80	73.9	18.1	399	135	-
Vert.	11000.000	PK	49.78	37.44	-33.14	-	-9.54	44.54	73.9	29.3	259	338	-
Vert.	5460.000	AV	34.66	32.85	-26.30	-	2.19	43.40	53.9	10.5	276	327	VBW: 500 Hz
Vert.	7333.304	AV	45.97	36.65	-34.07	-	2.19	50.74	53.9	3.1	399	135	VBW: 500 Hz
Vert.	11000.000	AV	37.79	37.44	-33.14	-	-9.54	32.55	53.9	21.3	259	338	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.42	32.85	-26.30	-	-	2.19	58.16	-37.07	-27.0	10.0	159	34	-
Hori.	5470.000	PK	49.11	32.92	-26.29	-	-	2.19	57.93	-37.30	-27.0	10.3	159	34	-
Hori.	16500.000	PK	48.18	39.99	-30.78	-	-	-9.54	47.85	-47.38	-27.0	20.3	150	0	Floor Noise
Hori.	22000.000	PK	47.13	40.25	15.03	47.32	-	-9.54	45.55	-49.68	-27.0	22.6	212	154	-
Vert.	5460.000	PK	47.78	32.85	-26.30	-	-	2.19	56.52	-38.71	-27.0	11.7	276	327	-
Vert.	5470.000	PK	47.75	32.92	-26.29	-	-	2.19	56.57	-38.66	-27.0	11.6	276	327	-
Vert.	16500.000	PK	49.96	39.99	-30.78	-	-	-9.54	49.63	-45.60	-27.0	18.6	150	0	Floor Noise
Vert.	22000.000	PK	48.66	40.25	15.03	47.32	-	-9.54	47.08	-48.15	-27.0	21.1	209	334	-

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

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

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

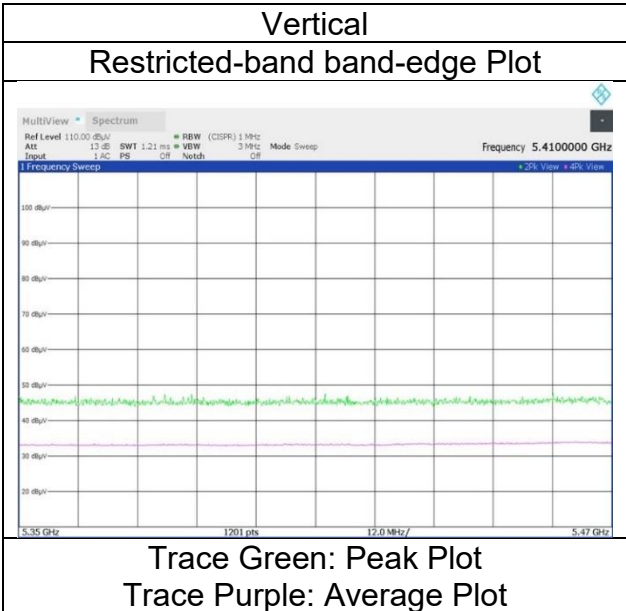
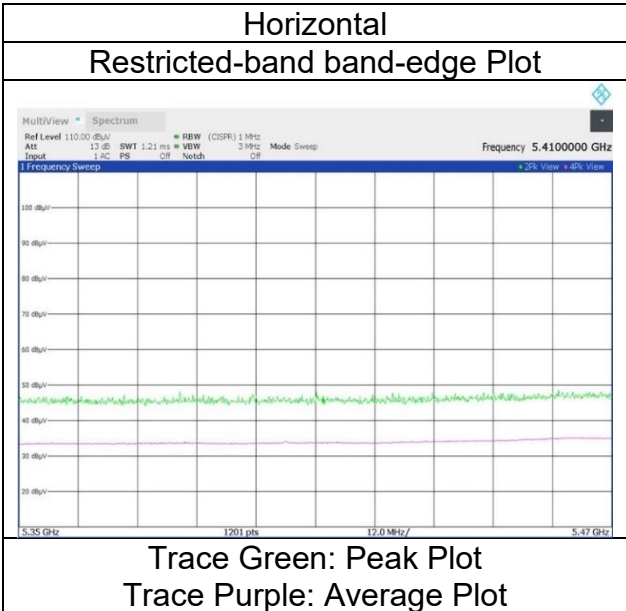
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11a 5500 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5580 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7440.000	PK	52.73	36.69	-33.92	-	2.19	57.69	73.9	16.2	209	134	-
Hori.	11160.000	PK	49.89	37.54	-32.87	-	-9.54	45.02	73.9	28.8	135	40	-
Hori.	22320.000	PK	44.14	40.28	15.12	47.32	-9.54	42.68	73.9	31.2	207	152	-
Hori.	7440.000	AV	48.16	36.69	-33.92	-	2.19	53.12	53.9	0.7	209	134	VBW: 500 Hz
Hori.	11160.000	AV	39.34	37.54	-32.87	-	-9.54	34.47	53.9	19.4	135	40	VBW: 500 Hz
Hori.	22320.000	AV	30.85	40.28	15.12	47.32	-9.54	29.39	53.9	24.5	207	152	VBW: 500 Hz
Vert.	7440.000	PK	51.50	36.69	-33.92	-	2.19	56.46	73.9	17.4	397	153	-
Vert.	11160.000	PK	48.96	37.54	-32.87	-	-9.54	44.09	73.9	29.8	258	334	-
Vert.	22320.000	PK	47.27	40.28	15.12	47.32	-9.54	45.81	73.9	28.0	191	172	-
Vert.	7440.000	AV	45.48	36.69	-33.92	-	2.19	50.44	53.9	3.4	397	153	VBW: 500 Hz
Vert.	11160.000	AV	37.18	37.54	-32.87	-	-9.54	32.31	53.9	21.5	258	334	VBW: 500 Hz
Vert.	22320.000	AV	37.73	40.28	15.12	47.32	-9.54	36.27	53.9	17.6	191	172	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	47.73	39.47	-30.35	-	-	-9.54	47.31	-47.92	-27.0	20.9	150	0	Floor Noise
Vert.	16740.000	PK	47.41	39.47	-30.35	-	-	-9.54	46.99	-48.24	-27.0	21.2	150	0	Floor Noise

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

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 Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5700 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7600.000	PK	50.71	36.60	-33.78	-	2.19	55.72	73.9	18.1	144	123	-
Hori.	11400.000	PK	48.12	37.96	-32.49	-	-9.54	44.05	73.9	29.8	140	54	-
Hori.	22800.000	PK	44.02	40.20	15.30	47.20	-9.54	42.78	73.9	31.1	312	93	-
Hori.	7600.000	AV	43.87	36.60	-33.78	-	2.19	48.88	53.9	5.0	144	123	VBW: 500 Hz
Hori.	11400.000	AV	37.80	37.96	-32.49	-	-9.54	33.73	53.9	20.1	140	54	VBW: 500 Hz
Hori.	22800.000	AV	31.54	40.20	15.30	47.20	-9.54	30.30	53.9	23.6	312	93	VBW: 500 Hz
Vert.	7600.012	PK	49.67	36.60	-33.78	-	2.19	54.68	73.9	19.2	396	146	-
Vert.	11400.000	PK	48.22	37.96	-32.49	-	-9.54	44.15	73.9	29.7	254	338	-
Vert.	22800.000	PK	45.64	40.20	15.30	47.20	-9.54	44.40	73.9	29.5	220	340	-
Vert.	7600.012	AV	41.24	36.60	-33.78	-	2.19	46.25	53.9	7.6	396	146	VBW: 500 Hz
Vert.	11400.000	AV	37.60	37.96	-32.49	-	-9.54	33.53	53.9	20.3	254	338	VBW: 500 Hz
Vert.	22800.000	AV	37.60	40.20	15.30	47.20	-9.54	36.36	53.9	17.5	220	340	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	46.50	33.37	-26.24	-	-	2.19	55.82	-39.41	-27.0	12.4	225	33	-
Hori.	17100.000	PK	47.61	39.90	-29.83	-	-	-9.54	48.14	-47.09	-27.0	20.0	150	0	Floor Noise
Vert.	5725.000	PK	46.36	33.37	-26.24	-	-	2.19	55.68	-39.55	-27.0	12.5	351	187	-
Vert.	17100.000	PK	47.41	39.90	-29.83	-	-	-9.54	47.94	-47.29	-27.0	20.2	150	0	Floor Noise

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

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).

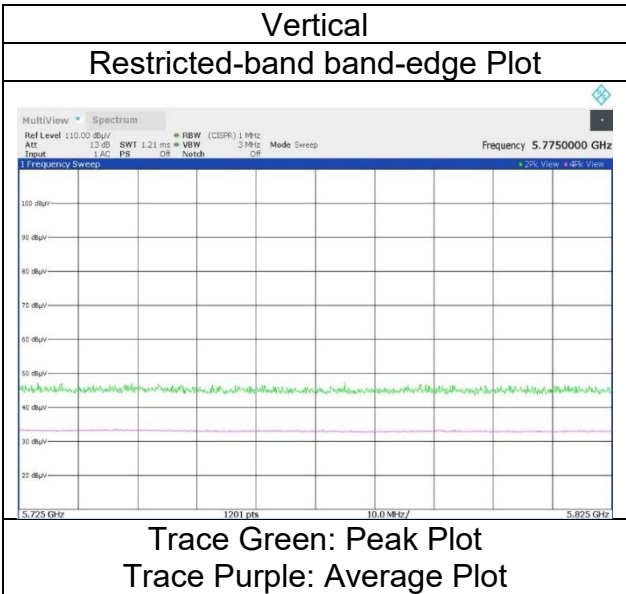
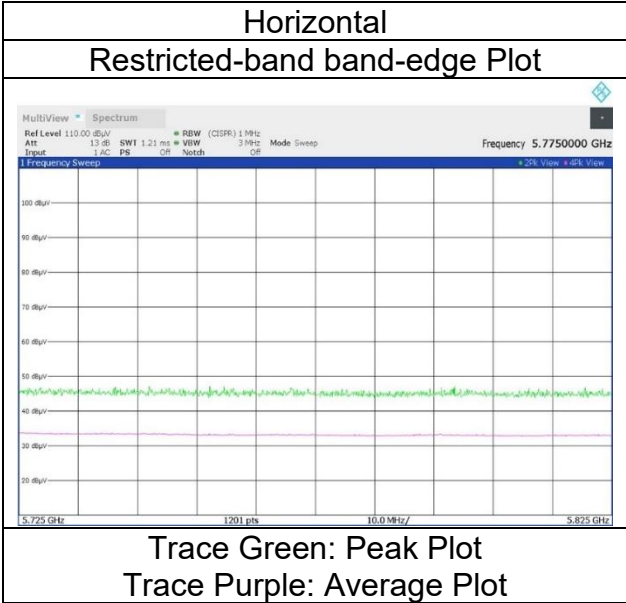
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11a 5700 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	24 deg. C / 56 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11a 5745 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7660.000	PK	50.51	36.50	-33.74	-	2.19	55.46	73.9	18.4	106	124	-
Hori.	11490.000	PK	48.82	38.08	-32.32	-	-9.54	45.04	73.9	28.8	130	53	-
Hori.	22980.000	PK	44.05	40.16	15.39	47.13	-9.54	42.93	73.9	30.9	315	94	-
Hori.	7660.000	AV	44.02	36.50	-33.74	-	2.19	48.97	53.9	4.9	106	124	VBW: 500 Hz
Hori.	11490.000	AV	39.08	38.08	-32.32	-	-9.54	35.30	53.9	18.6	130	53	VBW: 500 Hz
Hori.	22980.000	AV	31.69	40.16	15.39	47.13	-9.54	30.57	53.9	23.3	315	94	VBW: 500 Hz
Vert.	7660.000	PK	50.16	36.50	-33.74	-	2.19	55.11	73.9	18.7	388	145	-
Vert.	11490.000	PK	48.89	38.08	-32.32	-	-9.54	45.11	73.9	28.7	259	332	-
Vert.	22980.000	PK	45.89	40.16	15.39	47.13	-9.54	44.77	73.9	29.1	210	334	-
Vert.	7660.000	AV	38.67	36.50	-33.74	-	2.19	43.62	53.9	10.2	388	145	VBW: 500 Hz
Vert.	11490.000	AV	38.81	38.08	-32.32	-	-9.54	35.03	53.9	18.8	259	332	VBW: 500 Hz
Vert.	22980.000	AV	37.15	40.16	15.39	47.13	-9.54	36.03	53.9	17.8	210	334	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.55	33.45	-26.24	-	-	2.19	54.95	-40.28	-27.0	13.2	102	36	-
Hori.	5700.000	PK	46.50	33.37	-26.24	-	-	2.19	55.82	-39.41	10.0	49.4	102	36	-
Hori.	5720.000	PK	46.69	33.37	-26.23	-	-	2.19	56.02	-39.21	15.6	54.8	102	36	-
Hori.	5725.000	PK	48.83	33.37	-26.24	-	-	2.19	58.15	-37.08	27.0	64.0	102	36	-
Hori.	17235.000	PK	47.71	40.19	-29.76	-	-	-9.54	48.60	-46.63	-27.0	19.6	150	0	Floor Noise
Vert.	5650.000	PK	44.67	33.45	-26.24	-	-	2.19	54.07	-41.16	-27.0	14.1	151	320	-
Vert.	5700.000	PK	45.61	33.37	-26.24	-	-	2.19	54.93	-40.30	10.0	50.3	151	320	-
Vert.	5720.000	PK	46.00	33.37	-26.23	-	-	2.19	55.33	-39.90	15.6	55.5	151	320	-
Vert.	5725.000	PK	47.17	33.37	-26.24	-	-	2.19	56.49	-38.74	27.0	65.7	151	320	-
Vert.	17235.000	PK	47.86	40.19	-29.76	-	-	-9.54	48.75	-46.48	-27.0	19.4	150	0	Floor Noise

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

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).

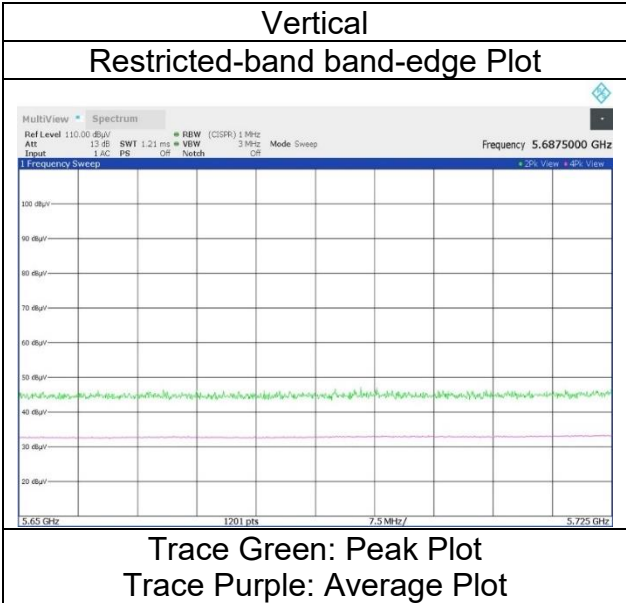
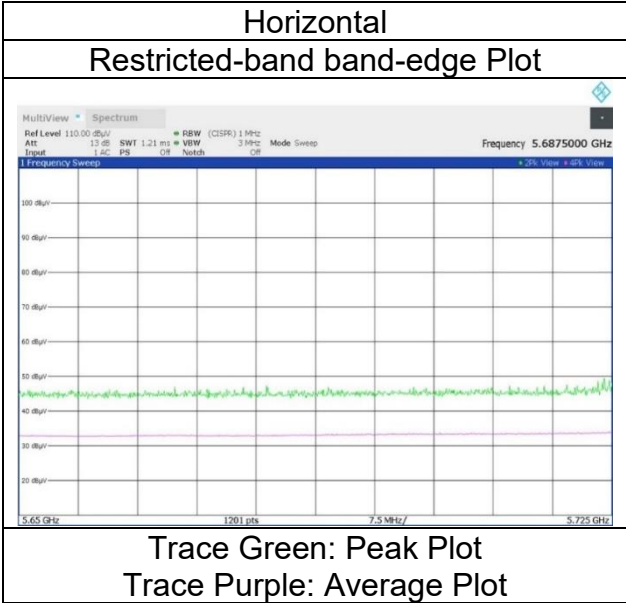
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 56 % RH
Yohsuke Matsuzawa
Tx 11a 5745 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	24 deg. C / 56 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5785 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	7713.258	PK	51.39	36.53	-33.70	-	2.19	56.41	73.9	17.4	138	124	-
Hori.	11570.000	PK	49.87	38.16	-32.35	-	-9.54	46.14	73.9	27.7	135	50	-
Hori.	7713.258	AV	45.19	36.53	-33.70	-	2.19	50.21	53.9	3.6	138	124	VBW: 500 Hz
Hori.	11570.000	AV	39.82	38.16	-32.35	-	-9.54	36.09	53.9	17.8	135	50	VBW: 500 Hz
Vert.	7713.287	PK	49.22	36.53	-33.70	-	2.19	54.24	73.9	19.6	393	145	-
Vert.	11570.000	PK	49.03	38.16	-32.35	-	-9.54	45.30	73.9	28.6	236	337	-
Vert.	7713.287	AV	40.47	36.53	-33.70	-	2.19	45.49	53.9	8.4	393	145	VBW: 500 Hz
Vert.	11570.000	AV	39.04	38.16	-32.35	-	-9.54	35.31	53.9	18.5	236	337	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	17355.000	PK	47.79	40.37	-29.69	-	-	-9.54	48.93	-46.30	-27.0	19.3	150	0	Floor Noise
Hori.	23140.000	PK	44.18	40.13	15.44	47.01	-	-9.54	43.20	-52.03	-27.0	25.0	266	89	-
Vert.	17355.000	PK	48.13	40.37	-29.69	-	-	-9.54	49.27	-45.96	-27.0	18.9	150	0	Floor Noise
Vert.	23140.000	PK	46.18	40.13	15.44	47.01	-	-9.54	45.20	-50.03	-27.0	23.0	223	319	-

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

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	24 deg. C / 56 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11a 5825 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	49.83	38.25	-32.39	-	-9.54	46.15	73.9	27.7	130	51	-
Hori.	11650.000	AV	39.89	38.25	-32.39	-	-9.54	36.21	53.9	17.6	130	51	VBW: 500 Hz
Vert.	11650.000	PK	49.52	38.25	-32.39	-	-9.54	45.84	73.9	28.0	239	338	-
Vert.	11650.000	AV	39.20	38.25	-32.39	-	-9.54	35.52	53.9	18.3	239	338	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.19	33.35	-26.20	-	-	2.19	59.53	-35.70	27.0	62.7	148	30	-
Hori.	5855.000	PK	48.24	33.36	-26.20	-	-	2.19	57.59	-37.64	15.6	53.2	148	30	-
Hori.	5875.000	PK	47.08	33.38	-26.20	-	-	2.19	56.45	-38.78	10.0	48.7	148	30	-
Hori.	5925.000	PK	46.81	33.53	-26.20	-	-	2.19	56.33	-38.90	-27.0	11.9	148	30	-
Hori.	7766.624	PK	51.81	36.53	-33.67	-	-	2.19	56.86	-38.37	-27.0	11.3	123	127	-
Hori.	17475.000	PK	47.30	40.44	-29.63	-	-	-9.54	48.57	-46.66	-27.0	19.6	150	0	Floor Noise
Hori.	23300.000	PK	43.44	40.14	15.49	46.89	-	-9.54	42.64	-52.59	-27.0	25.5	279	84	-
Vert.	5850.000	PK	49.12	33.35	-26.20	-	-	2.19	58.46	-36.77	27.0	63.7	311	143	-
Vert.	5855.000	PK	47.23	33.36	-26.20	-	-	2.19	56.58	-38.65	15.6	54.2	311	143	-
Vert.	5875.000	PK	47.57	33.38	-26.20	-	-	2.19	56.94	-38.29	10.0	48.2	311	143	-
Vert.	5925.000	PK	46.82	33.53	-26.20	-	-	2.19	56.34	-38.89	-27.0	11.8	311	143	-
Vert.	7766.672	PK	49.45	36.53	-33.67	-	-	2.19	54.50	-40.73	-27.0	13.7	391	142	-
Vert.	17475.000	PK	48.05	40.44	-29.63	-	-	-9.54	49.32	-45.91	-27.0	18.9	150	0	Floor Noise
Vert.	23300.000	PK	46.42	40.14	15.49	46.89	-	-9.54	45.62	-49.61	-27.0	22.6	226	318	-

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

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

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

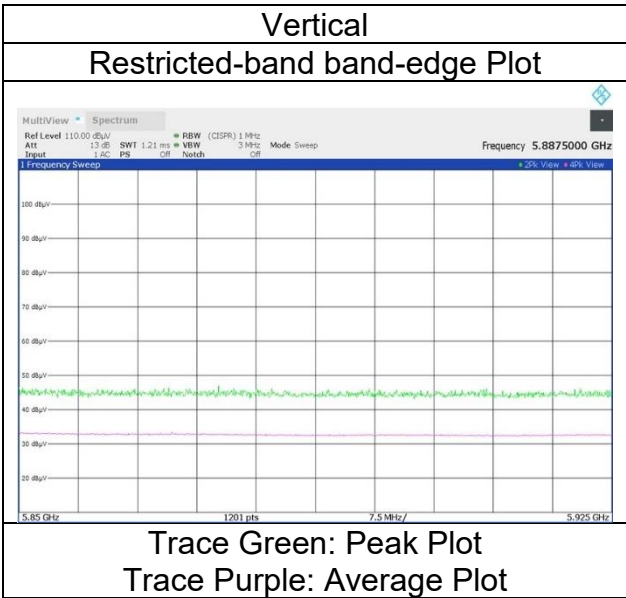
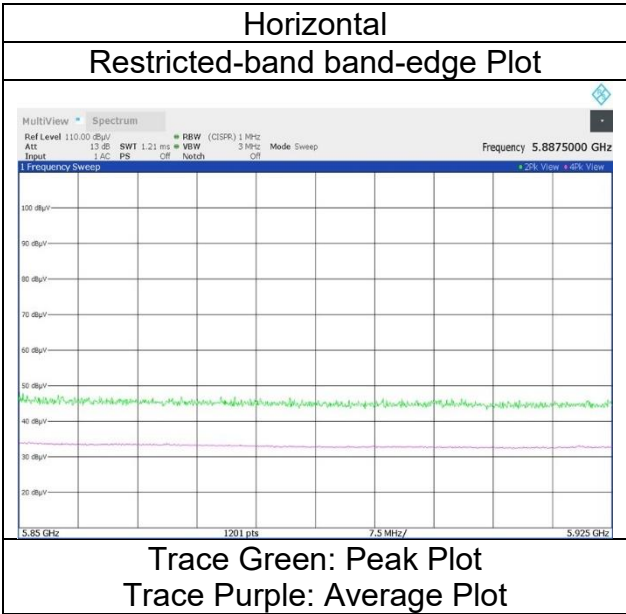
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 56 % RH
Yohsuke Matsuzawa
Tx 11a 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	24 deg. C / 56 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-20 5180 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.94	32.58	-26.65	-	2.19	60.06	73.9	13.8	206	61	-
Hori.	15540.000	PK	48.06	39.64	-30.80	-	-9.54	47.36	73.9	26.5	150	0	Floor Noise
Hori.	20720.000	PK	44.84	40.12	14.51	47.00	-9.54	42.93	73.9	30.9	317	76	-
Hori.	5150.000	AV	34.36	32.58	-26.65	-	2.19	42.48	53.9	11.4	206	61	VBW: 500 Hz
Hori.	15540.000	AV	34.01	39.64	-30.80	-	-9.54	33.31	53.9	20.5	150	0	Floor Noise
Hori.	20720.000	AV	30.33	40.12	14.51	47.00	-9.54	28.42	53.9	25.4	317	76	VBW: 500 Hz
Vert.	5150.000	PK	52.35	32.58	-26.65	-	2.19	60.47	73.9	13.4	304	40	-
Vert.	15540.000	PK	47.74	39.64	-30.80	-	-9.54	47.04	73.9	26.8	150	0	Floor Noise
Vert.	20720.000	PK	49.81	40.12	14.51	47.00	-9.54	47.90	73.9	26.0	215	338	-
Vert.	5150.000	AV	34.04	32.58	-26.65	-	2.19	42.16	53.9	11.7	304	40	VBW: 500 Hz
Vert.	15540.000	AV	34.01	39.64	-30.80	-	-9.54	33.31	53.9	20.5	150	0	Floor Noise
Vert.	20720.000	AV	35.96	40.12	14.51	47.00	-9.54	34.05	53.9	19.8	215	338	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6906.624	PK	54.85	35.81	-34.54	-	-	2.19	58.31	-36.92	-27.0	9.9	123	127	-
Hori.	10360.000	PK	58.17	36.26	-33.63	-	-	-9.54	51.26	-43.97	-27.0	16.9	132	41	-
Vert.	6906.656	PK	52.84	35.81	-34.54	-	-	2.19	56.30	-38.93	-27.0	11.9	388	152	-
Vert.	10360.000	PK	51.17	36.26	-33.63	-	-	-9.54	44.26	-50.97	-27.0	23.9	237	333	-

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

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

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

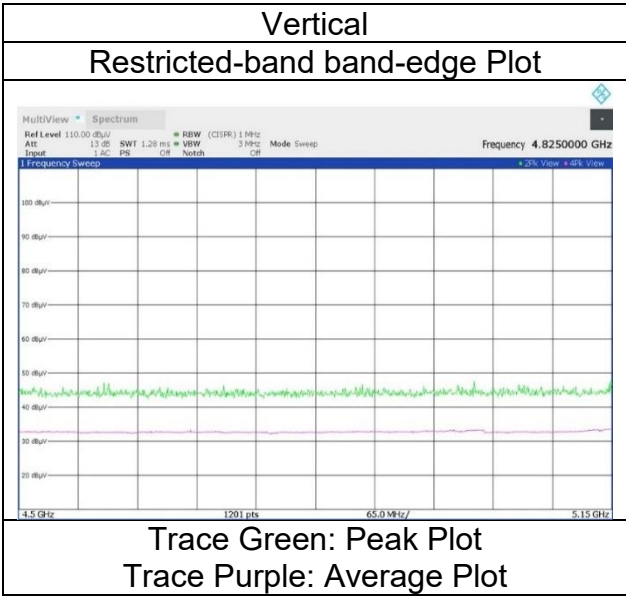
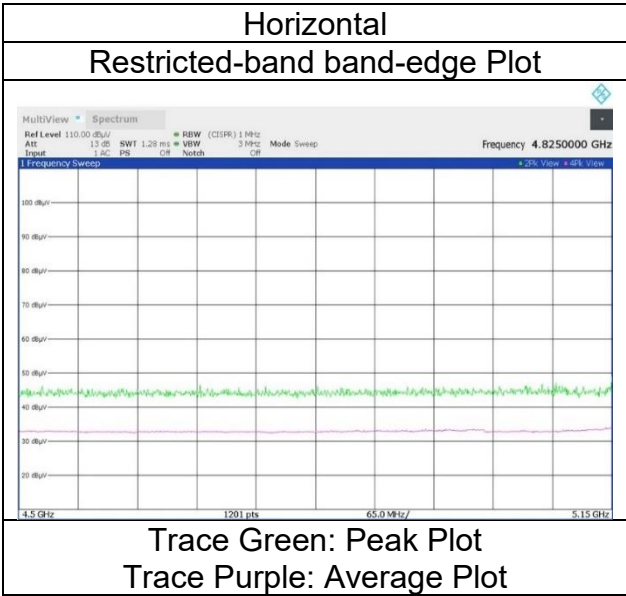
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 56 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5180 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-20 5240 MHz		

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15720.000	PK	47.57	39.78	-30.85	-	-9.54	46.96	73.9	26.9	150	0	Floor Noise
Hori.	20960.000	PK	44.28	40.05	14.66	47.07	-9.54	42.38	73.9	31.5	323	76	-
Hori.	15720.000	AV	33.93	39.78	-30.85	-	-9.54	33.32	53.9	20.5	150	0	Floor Noise
Hori.	20960.000	AV	30.18	40.05	14.66	47.07	-9.54	28.28	53.9	25.6	323	76	VBW: 500 Hz
Vert.	15720.000	PK	47.53	39.78	-30.85	-	-9.54	46.92	73.9	26.9	150	0	Floor Noise
Vert.	20960.000	PK	49.05	40.05	14.66	47.07	-9.54	47.15	73.9	26.7	218	338	-
Vert.	15720.000	AV	33.99	39.78	-30.85	-	-9.54	33.38	53.9	20.5	150	0	Floor Noise
Vert.	20960.000	AV	35.20	40.05	14.66	47.07	-9.54	33.30	53.9	20.6	218	338	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6986.636	PK	55.05	35.77	-34.52	-	-	2.19	58.49	-36.74	-27.0	9.7	151	129	-
Hori.	10480.000	PK	56.28	36.42	-33.44	-	-	-9.54	49.72	-45.51	-27.0	18.5	130	39	-
Vert.	6986.367	PK	52.28	35.77	-34.52	-	-	2.19	55.72	-39.51	-27.0	12.5	385	155	-
Vert.	10480.000	PK	49.53	36.42	-33.44	-	-	-9.54	42.97	-52.26	-27.0	25.2	236	337	-

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

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-20 5320 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.07	32.42	-26.42	-	2.19	59.26	73.9	14.6	150	42	-
Hori.	10640.000	PK	53.47	37.03	-33.32	-	-9.54	47.64	73.9	26.2	133	38	-
Hori.	15960.000	PK	47.33	40.08	-30.93	-	-9.54	46.94	73.9	26.9	150	0	Floor Noise
Hori.	21280.000	PK	43.00	40.09	14.77	47.05	-9.54	41.27	73.9	32.6	276	73	-
Hori.	5350.000	AV	36.20	32.42	-26.42	-	2.19	44.39	53.9	9.5	150	42	VBW: 500 Hz
Hori.	10640.000	AV	42.18	37.03	-33.32	-	-9.54	36.35	53.9	17.5	133	38	VBW: 500 Hz
Hori.	15960.000	AV	33.83	40.08	-30.93	-	-9.54	33.44	53.9	20.4	150	0	Floor Noise
Hori.	21280.000	AV	30.85	40.09	14.77	47.05	-9.54	29.12	53.9	24.7	276	73	VBW: 500 Hz
Vert.	5350.000	PK	49.76	32.42	-26.42	-	2.19	57.95	73.9	15.9	303	56	-
Vert.	10640.000	PK	49.34	37.03	-33.32	-	-9.54	43.51	73.9	30.3	217	337	-
Vert.	15960.000	PK	47.50	40.08	-30.93	-	-9.54	47.11	73.9	26.7	150	0	Floor Noise
Vert.	21280.000	PK	46.33	40.09	14.77	47.05	-9.54	44.60	73.9	29.3	195	167	-
Vert.	5350.000	AV	35.47	32.42	-26.42	-	2.19	43.66	53.9	10.2	303	56	VBW: 500 Hz
Vert.	10640.000	AV	37.22	37.03	-33.32	-	-9.54	31.39	53.9	22.5	217	337	VBW: 500 Hz
Vert.	15960.000	AV	32.78	40.08	-30.93	-	-9.54	32.39	53.9	21.5	150	0	Floor Noise
Vert.	21280.000	AV	36.45	40.09	14.77	47.05	-9.54	34.72	53.9	19.1	195	167	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7093.276	PK	55.23	35.81	-34.40	-	-	2.19	58.83	-36.40	-27.0	9.4	184	131	-
Vert.	7093.241	PK	53.36	35.81	-34.40	-	-	2.19	56.96	-38.27	-27.0	11.2	363	160	-

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

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

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

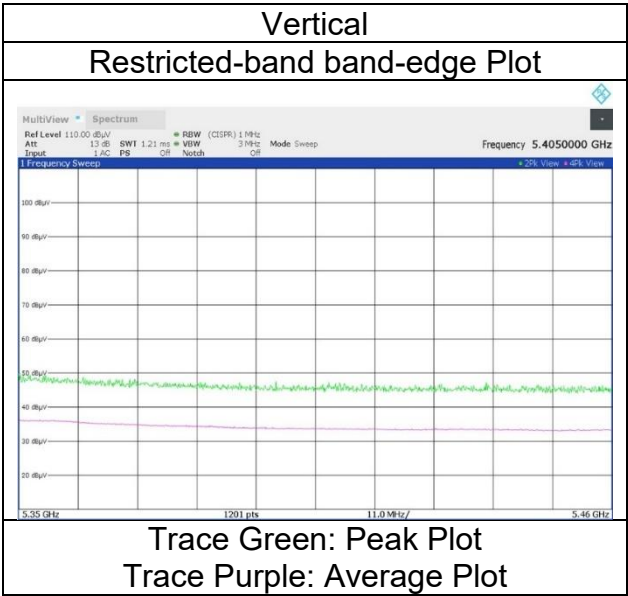
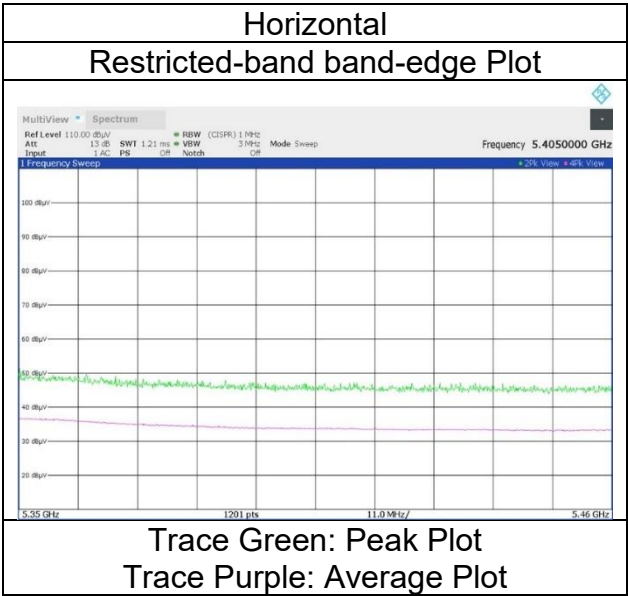
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5320 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date October 6, 2024 October 10, 2024 October 11, 2024
Temperature / Humidity 23 deg. C / 60 % RH 21 deg. C / 62 % RH 23 deg. C / 53 % RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber WAC1 WAC1
Date October 15, 2024 October 15, 2024
Temperature / Humidity 24 deg. C / 61 % RH 24 deg. C / 54 % RH
Engineer Yosuke Murakami Yuta Shiba
(18 GHz to 26.5 GHz) (26.5 GHz to 40 GHz)

Mode Tx 11ac-20 5500 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7333.302	PK	53.41	36.65	-34.07	-	2.19	58.18	73.9	15.7	201	133	-
Hori.	11000.000	PK	51.67	37.44	-33.14	-	-9.54	46.43	73.9	27.4	131	42	-
Hori.	5460.000	AV	34.98	32.85	-26.30	-	2.19	43.72	53.9	10.1	104	28	VBW: 500 Hz
Hori.	7333.302	AV	48.77	36.65	-34.07	-	2.19	53.54	53.9	0.3	201	133	VBW: 500 Hz
Hori.	11000.000	AV	41.12	37.44	-33.14	-	-9.54	35.88	53.9	18.0	131	42	VBW: 500 Hz
Vert.	7333.296	PK	51.84	36.65	-34.07	-	2.19	56.61	73.9	17.2	395	136	-
Vert.	11000.000	PK	49.73	37.44	-33.14	-	-9.54	44.49	73.9	29.4	250	339	-
Vert.	5460.000	AV	34.29	32.85	-26.30	-	2.19	43.03	53.9	10.8	243	199	VBW: 500 Hz
Vert.	7333.296	AV	46.48	36.65	-34.07	-	2.19	51.25	53.9	2.6	395	136	VBW: 500 Hz
Vert.	11000.000	AV	37.81	37.44	-33.14	-	-9.54	32.57	53.9	21.3	250	339	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.62	32.85	-26.30	-	-	2.19	57.36	-37.87	-27.0	10.8	104	28	-
Hori.	5470.000	PK	49.27	32.92	-26.29	-	-	2.19	58.09	-37.14	-27.0	10.1	104	28	-
Hori.	16500.000	PK	48.50	39.99	-30.78	-	-	-9.54	48.17	-47.06	-27.0	20.0	150	0	Floor Noise
Hori.	22000.000	PK	46.10	40.25	15.03	47.32	-	-9.54	44.52	-50.71	-27.0	23.7	257	158	-
Vert.	5460.000	PK	48.28	32.85	-26.30	-	-	2.19	57.02	-38.21	-27.0	11.2	243	199	-
Vert.	5470.000	PK	49.22	32.92	-26.29	-	-	2.19	58.04	-37.19	-27.0	10.1	243	199	-
Vert.	16500.000	PK	48.20	39.99	-30.78	-	-	-9.54	47.87	-47.36	-27.0	20.3	150	0	Floor Noise
Vert.	22000.000	PK	47.73	40.25	15.03	47.32	-	-9.54	46.15	-49.08	-27.0	22.0	207	334	-

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

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

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

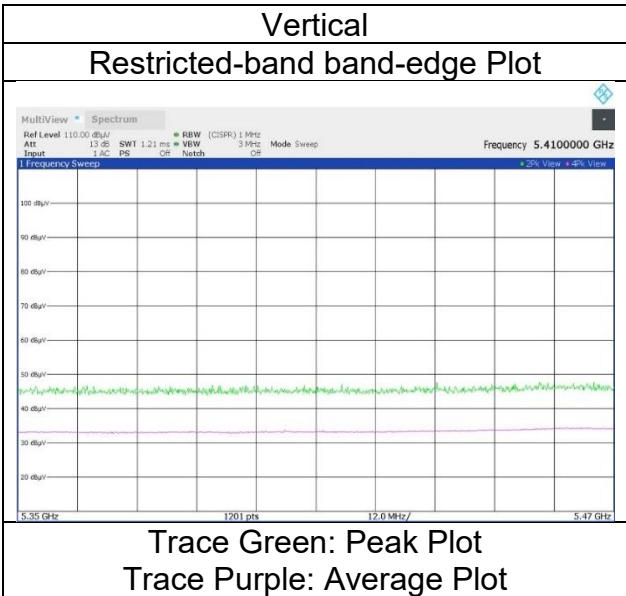
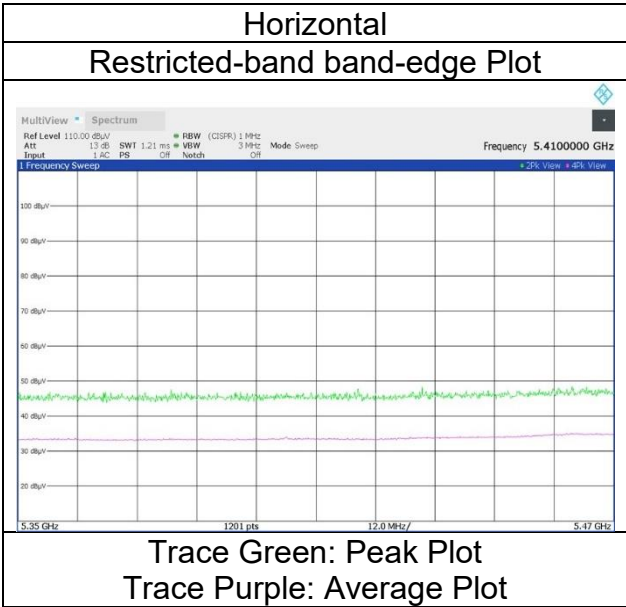
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5500 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1		
Date	October 15, 2024		
Temperature / Humidity	24 deg. C / 54 % RH		
Engineer	Yuta Shiba (18 GHz to 40 GHz)		
Mode	Tx 11ac-20 5580 MHz		

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7440.000	PK	53.00	36.69	-33.92	-	2.19	57.96	73.9	15.9	209	134	-
Hori.	11160.000	PK	49.60	37.54	-32.87	-	-9.54	44.73	73.9	29.1	136	40	-
Hori.	22320.000	PK	43.77	40.28	15.12	47.32	-9.54	42.31	73.9	31.5	210	154	-
Hori.	7440.000	AV	48.03	36.69	-33.92	-	2.19	52.99	53.9	0.9	209	134	VBW: 500 Hz
Hori.	11160.000	AV	39.55	37.54	-32.87	-	-9.54	34.68	53.9	19.2	136	40	VBW: 500 Hz
Hori.	22320.000	AV	30.84	40.28	15.12	47.32	-9.54	29.38	53.9	24.5	210	154	VBW: 500 Hz
Vert.	7440.000	PK	50.72	36.69	-33.92	-	2.19	55.68	73.9	18.2	400	154	-
Vert.	11160.000	PK	50.25	37.54	-32.87	-	-9.54	45.38	73.9	28.5	258	337	-
Vert.	22320.000	PK	44.93	40.28	15.12	47.32	-9.54	43.47	73.9	30.4	200	174	-
Vert.	7440.000	AV	44.28	36.69	-33.92	-	2.19	49.24	53.9	4.6	400	154	VBW: 500 Hz
Vert.	11160.000	AV	38.30	37.54	-32.87	-	-9.54	33.43	53.9	20.4	258	337	VBW: 500 Hz
Vert.	22320.000	AV	34.63	40.28	15.12	47.32	-9.54	33.17	53.9	20.7	200	174	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	47.94	39.47	-30.35	-	-	-9.54	47.52	-47.71	-27.0	20.7	150	0	Floor Noise
Vert.	16740.000	PK	48.10	39.47	-30.35	-	-	-9.54	47.68	-47.55	-27.0	20.5	150	0	Floor Noise

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

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 Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 6, 2024	October 10, 2024	October 11, 2024
Temperature / Humidity	23 deg. C / 60 % RH	21 deg. C / 62 % RH	23 deg. C / 53 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1		
Date	October 15, 2024		
Temperature / Humidity	24 deg. C / 54 % RH		
Engineer	Yuta Shiba (18 GHz to 40 GHz)		

Mode Tx 11ac-20 5700 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7600.000	PK	50.85	36.60	-33.78	-	2.19	55.86	73.9	18.0	139	123	-
Hori.	11400.000	PK	48.57	37.96	-32.49	-	-9.54	44.50	73.9	29.4	142	40	-
Hori.	22800.000	PK	43.38	40.20	15.30	47.20	-9.54	42.14	73.9	31.7	312	93	-
Hori.	7600.000	AV	44.01	36.60	-33.78	-	2.19	49.02	53.9	4.8	139	123	VBW: 500 Hz
Hori.	11400.000	AV	37.95	37.96	-32.49	-	-9.54	33.88	53.9	20.0	142	40	VBW: 500 Hz
Hori.	22800.000	AV	31.30	40.20	15.30	47.20	-9.54	30.06	53.9	23.8	312	93	VBW: 500 Hz
Vert.	7600.000	PK	49.56	36.60	-33.78	-	2.19	54.57	73.9	19.3	396	148	-
Vert.	11400.000	PK	48.64	37.96	-32.49	-	-9.54	44.57	73.9	29.3	257	334	-
Vert.	22800.000	PK	44.24	40.20	15.30	47.20	-9.54	43.00	73.9	30.9	180	157	-
Vert.	7600.000	AV	41.17	36.60	-33.78	-	2.19	46.18	53.9	7.7	396	148	VBW: 500 Hz
Vert.	11400.000	AV	37.90	37.96	-32.49	-	-9.54	33.83	53.9	20.0	257	334	VBW: 500 Hz
Vert.	22800.000	AV	33.42	40.20	15.30	47.20	-9.54	32.18	53.9	21.7	180	157	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.17	33.37	-26.24	-	-	2.19	57.49	-37.74	-27.0	10.7	150	36	-
Hori.	17100.000	PK	47.80	39.90	-29.83	-	-	-9.54	48.33	-46.90	-27.0	19.9	150	0	Floor Noise
Vert.	5725.000	PK	47.49	33.37	-26.24	-	-	2.19	56.81	-38.42	-27.0	11.4	293	1	-
Vert.	17100.000	PK	47.95	39.90	-29.83	-	-	-9.54	48.48	-46.75	-27.0	19.7	150	0	Floor Noise

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

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

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

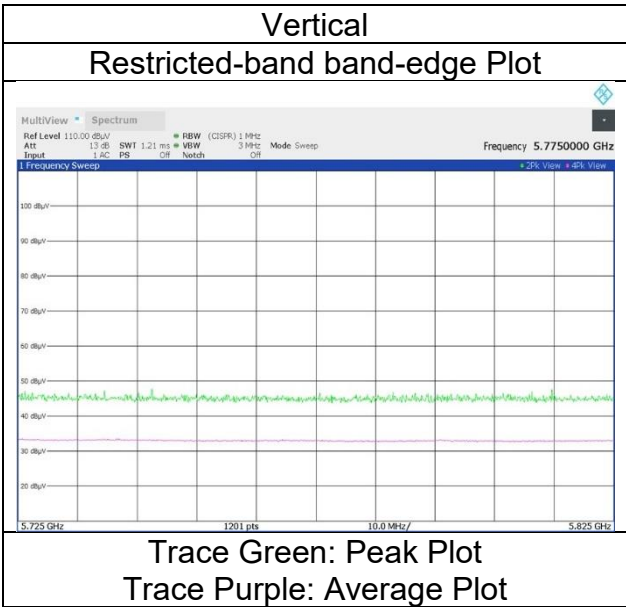
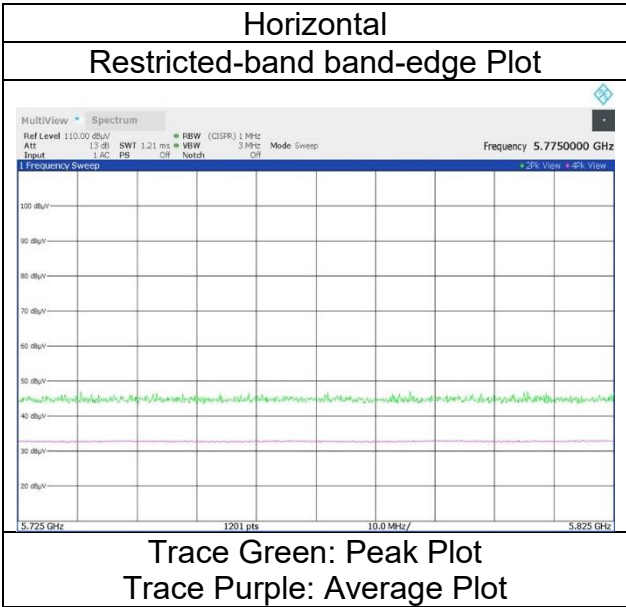
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 6, 2024
23 deg. C / 60 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5700 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 13, 2024
Temperature / Humidity	24 deg. C / 56 % RH	21 deg. C / 62 % RH	22 deg. C / 45 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1
Date	October 15, 2024
Temperature / Humidity	24 deg. C / 54 % RH
Engineer	Yuta Shiba (18 GHz to 40 GHz)

Mode Tx 11ac-20 5745 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7660.000	PK	50.74	36.50	-33.74	-	2.19	55.69	73.9	18.2	138	124	-
Hori.	11490.000	PK	49.34	38.08	-32.09	-	-9.54	45.79	73.9	28.1	149	35	-
Hori.	22980.000	PK	44.18	40.16	15.39	47.13	-9.54	43.06	73.9	30.8	308	94	-
Hori.	7660.000	AV	44.04	36.50	-33.74	-	2.19	48.99	53.9	4.9	138	124	VBW: 500 Hz
Hori.	11490.000	AV	39.63	38.08	-32.09	-	-9.54	36.08	53.9	17.8	149	35	VBW: 500 Hz
Hori.	22980.000	AV	31.70	40.16	15.39	47.13	-9.54	30.58	53.9	23.3	308	94	VBW: 500 Hz
Vert.	7660.003	PK	49.02	36.50	-33.74	-	2.19	53.97	73.9	19.9	384	145	-
Vert.	11490.000	PK	48.16	38.08	-32.09	-	-9.54	44.61	73.9	29.2	170	336	-
Vert.	22980.000	PK	45.32	40.16	15.39	47.13	-9.54	44.20	73.9	29.7	189	161	-
Vert.	7660.003	AV	40.17	36.50	-33.74	-	2.19	45.12	53.9	8.7	384	145	VBW: 500 Hz
Vert.	11490.000	AV	36.11	38.08	-32.09	-	-9.54	32.56	53.9	21.3	170	336	VBW: 500 Hz
Vert.	22980.000	AV	34.52	40.16	15.39	47.13	-9.54	33.40	53.9	20.5	189	161	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.07	33.45	-26.24	-	-	2.19	56.47	-38.76	-27.0	11.7	111	32	-
Hori.	5700.000	PK	48.19	33.37	-26.24	-	-	2.19	57.51	-37.72	10.0	47.7	111	32	-
Hori.	5720.000	PK	50.17	33.37	-26.23	-	-	2.19	59.50	-35.73	15.6	51.3	111	32	-
Hori.	5725.000	PK	50.08	33.37	-26.24	-	-	2.19	59.40	-35.83	27.0	62.8	111	32	-
Hori.	17235.000	PK	48.21	40.19	-29.52	-	-	-9.54	49.34	-45.89	-27.0	18.8	150	0	Floor Noise
Vert.	5650.000	PK	46.78	33.45	-26.24	-	-	2.19	56.18	-39.05	-27.0	12.0	278	344	-
Vert.	5700.000	PK	47.55	33.37	-26.24	-	-	2.19	56.87	-38.36	10.0	48.3	278	344	-
Vert.	5720.000	PK	47.74	33.37	-26.23	-	-	2.19	57.07	-38.16	15.6	53.7	278	344	-
Vert.	5725.000	PK	51.38	33.37	-26.24	-	-	2.19	60.70	-34.53	27.0	61.5	278	344	-
Vert.	17235.000	PK	47.38	40.19	-29.52	-	-	-9.54	48.51	-46.72	-27.0	19.7	150	0	Floor Noise

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

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

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

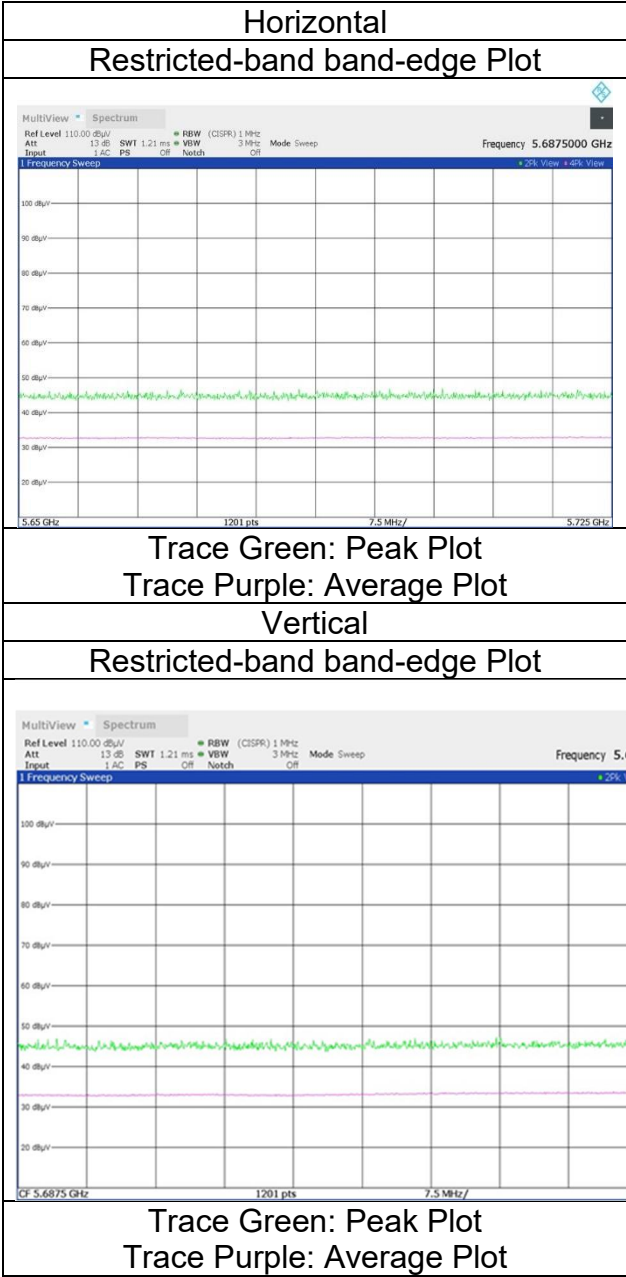
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 56 % RH
Yohsuke Matsuzawa
Tx 11ac-20 5745 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 18, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	23 deg. C / 69 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1
Date	October 15, 2024
Temperature / Humidity	24 deg. C / 54 % RH
Engineer	Yuta Shiba (18 GHz to 40 GHz)

Mode Tx 11ac-20 5785 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7713.317	PK	50.93	36.53	-33.70	-	2.19	55.95	73.9	17.9	148	125	-
Hori.	11570.000	PK	50.16	38.16	-32.12	-	-9.54	46.66	73.9	27.2	142	35	-
Hori.	7713.317	AV	45.13	36.53	-33.70	-	2.19	50.15	53.9	3.7	148	125	VBW: 500 Hz
Hori.	11570.000	AV	40.32	38.16	-32.12	-	-9.54	36.82	53.9	17.0	142	35	VBW: 500 Hz
Vert.	7713.292	PK	49.96	36.53	-33.70	-	2.19	54.98	73.9	18.9	387	156	-
Vert.	11570.000	PK	50.00	38.16	-32.12	-	-9.54	46.50	73.9	27.4	233	334	-
Vert.	7713.292	AV	41.21	36.53	-33.70	-	2.19	46.23	53.9	7.6	387	156	VBW: 500 Hz
Vert.	11570.000	AV	38.61	38.16	-32.12	-	-9.54	35.11	53.9	18.7	233	334	VBW: 500 Hz

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

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

Distance Fac.: 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	48.61	40.37	-29.45	-	-	-9.54	49.99	-45.24	-27.0	18.2	150	0	Floor Noise
Hori.	23140.000	PK	44.01	40.13	15.44	47.01	-	-9.54	43.03	-52.20	-27.0	25.2	312	88	-
Vert.	17355.000	PK	47.77	40.37	-29.45	-	-	-9.54	49.15	-46.08	-27.0	19.0	150	0	Floor Noise
Vert.	23140.000	PK	44.55	40.13	15.44	47.01	-	-9.54	43.57	-51.66	-27.0	24.6	202	323	-

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

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

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

Distance Fac.: 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date October 7, 2024 October 10, 2024 October 13, 2024
Temperature / Humidity 24 deg. C / 54 % RH 21 deg. C / 62 % RH 22 deg. C / 45 % RH
Engineer Takayuki Kobayashi Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber WAC1
Date October 15, 2024
Temperature / Humidity 24 deg. C / 54 % RH
Engineer Yuta Shiba
(18 GHz to 40 GHz)

Mode Tx 11ac-20 5825 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	49.62	38.25	-32.16	-	-9.54	46.17	73.9	27.7	147	34	-
Hori.	11650.000	AV	39.86	38.25	-32.16	-	-9.54	36.41	53.9	17.4	147	34	VBW: 500 Hz
Vert.	11650.000	PK	49.00	38.25	-32.16	-	-9.54	45.55	73.9	28.3	219	331	-
Vert.	11650.000	AV	38.23	38.25	-32.16	-	-9.54	34.78	53.9	19.1	219	331	VBW: 500 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.38	33.35	-26.20	-	-	2.19	58.72	-36.51	27.0	63.5	152	34	-
Hori.	5855.000	PK	48.14	33.36	-26.20	-	-	2.19	57.49	-37.74	15.6	53.3	152	34	-
Hori.	5875.000	PK	47.34	33.38	-26.20	-	-	2.19	56.71	-38.52	10.0	48.5	152	34	-
Hori.	5925.000	PK	47.24	33.53	-26.20	-	-	2.19	56.76	-38.47	-27.0	11.4	152	34	-
Hori.	7766.644	PK	51.37	36.53	-33.67	-	-	2.19	56.42	-38.81	-27.0	11.8	122	127	-
Hori.	17475.000	PK	48.11	40.44	-29.40	-	-	-9.54	49.61	-45.62	-27.0	18.6	150	0	Floor Noise
Hori.	23300.000	PK	44.19	40.14	15.49	46.89	-	-9.54	43.39	-51.84	-27.0	24.8	279	84	-
Vert.	5850.000	PK	48.58	33.35	-26.20	-	-	2.19	57.92	-37.31	27.0	64.3	221	229	-
Vert.	5855.000	PK	47.42	33.36	-26.20	-	-	2.19	56.77	-38.46	15.6	54.0	221	229	-
Vert.	5875.000	PK	47.17	33.38	-26.20	-	-	2.19	56.54	-38.69	10.0	48.6	221	229	-
Vert.	5925.000	PK	46.82	33.53	-26.20	-	-	2.19	56.34	-38.89	-27.0	11.8	221	229	-
Vert.	7766.604	PK	49.38	36.53	-33.67	-	-	2.19	54.43	-40.80	-27.0	13.8	397	165	-
Vert.	17475.000	PK	47.56	40.44	-29.40	-	-	-9.54	49.06	-46.17	-27.0	19.1	150	0	Floor Noise
Vert.	23300.000	PK	45.09	40.14	15.49	46.89	-	-9.54	44.29	-50.94	-27.0	23.9	200	317	-

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

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

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

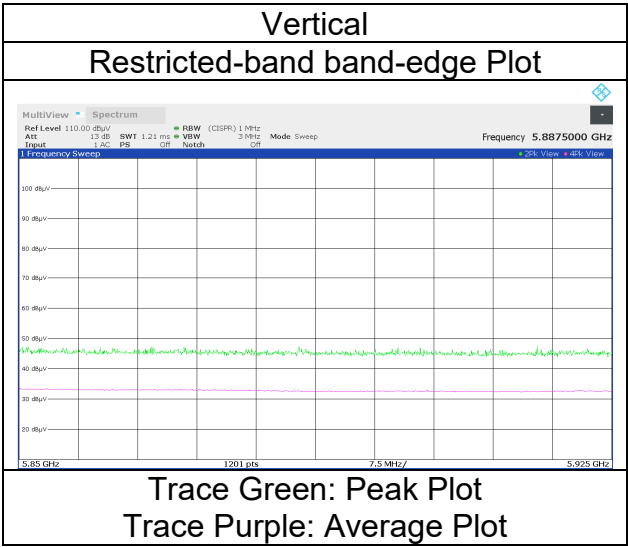
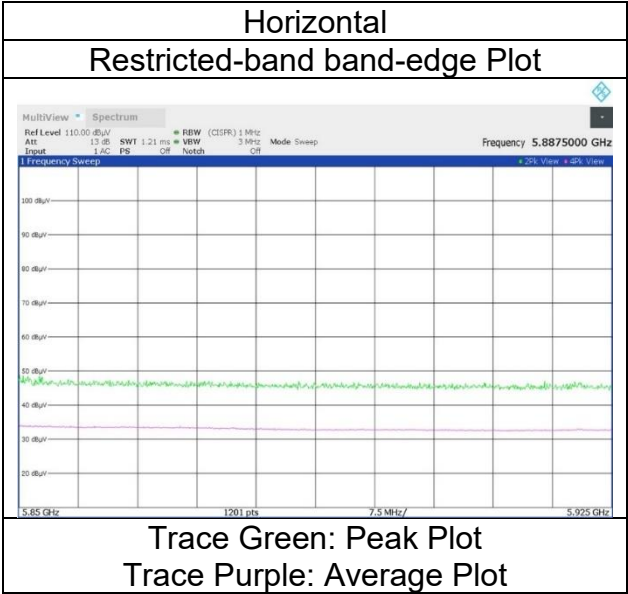
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-20 5825 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 13, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 45 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5190 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	56.81	32.58	-26.65	-	2.19	64.93	73.9	8.9	223	56	-
Hori.	15570.000	PK	46.86	39.63	-30.56	-	-9.54	46.39	73.9	27.5	150	0	Floor Noise
Hori.	20760.000	PK	44.07	40.11	14.54	47.01	-9.54	42.17	73.9	31.7	263	209	-
Hori.	5150.000	AV	34.63	32.58	-26.65	-	2.19	42.75	53.9	11.1	223	56	VBW: 50 Hz
Hori.	15570.000	AV	33.62	39.63	-30.56	-	-9.54	33.15	53.9	20.7	150	0	Floor Noise
Hori.	20760.000	AV	30.69	40.11	14.54	47.01	-9.54	28.79	53.9	25.1	263	209	VBW: 50 Hz
Vert.	5150.000	PK	56.31	32.58	-26.65	-	2.19	64.43	73.9	9.4	304	36	-
Vert.	15570.000	PK	47.36	39.63	-30.56	-	-9.54	46.89	73.9	27.0	150	0	Floor Noise
Vert.	20760.000	PK	46.57	40.11	14.54	47.01	-9.54	44.67	73.9	29.2	200	167	-
Vert.	5150.000	AV	34.31	32.58	-26.65	-	2.19	42.43	53.9	11.4	304	36	VBW: 50 Hz
Vert.	15570.000	AV	34.36	39.63	-30.56	-	-9.54	33.89	53.9	20.0	150	0	Floor Noise
Vert.	20760.000	AV	35.12	40.11	14.54	47.01	-9.54	33.22	53.9	20.6	200	167	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6920.000	PK	54.97	35.81	-34.53	-	-	2.19	58.44	-36.79	-27.0	9.7	122	127	-
Hori.	10380.000	PK	51.51	36.27	-33.39	-	-	-9.54	44.85	-50.38	-27.0	23.3	142	36	-
Vert.	6920.001	PK	52.34	35.81	-34.53	-	-	2.19	55.81	-39.42	-27.0	12.4	370	160	-
Vert.	10380.000	PK	49.33	36.27	-33.39	-	-	-9.54	42.67	-52.56	-27.0	25.5	229	206	-

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

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

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

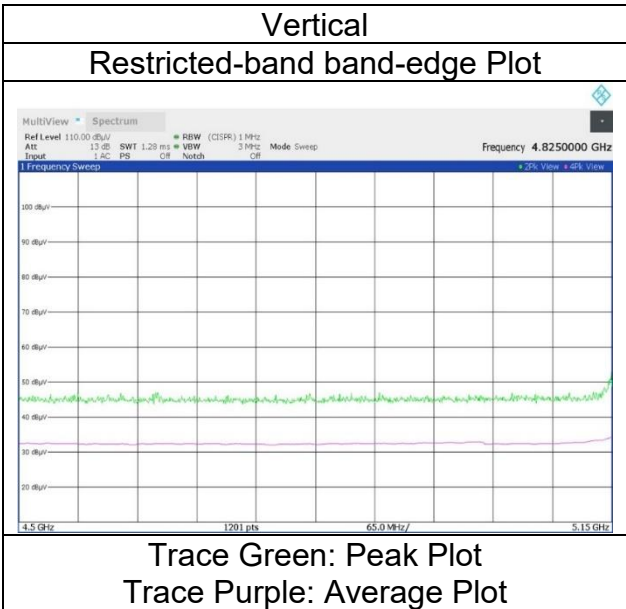
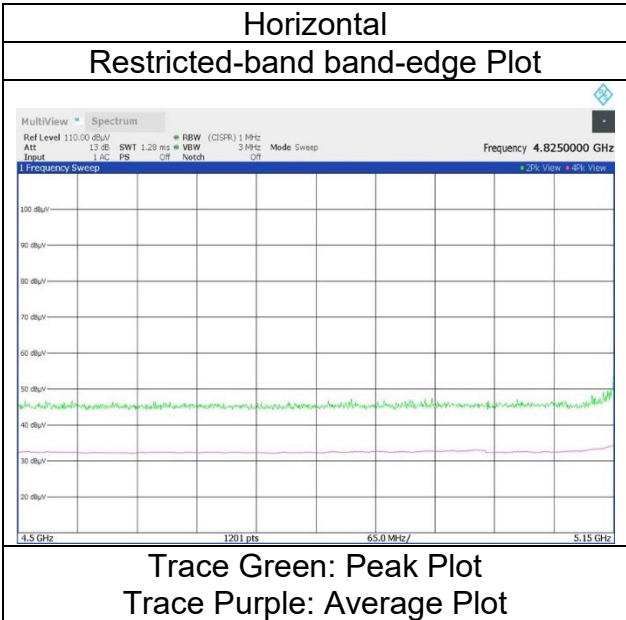
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-40 5190 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 13, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 45 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Yohsuke Matsuzawa (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	
Mode	Tx 11ac-40 5230 MHz		

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15690.000	PK	46.85	39.74	-30.58	-	-9.54	46.47	73.9	27.4	150	0	Floor Noise
Hori.	20920.000	PK	43.81	40.07	14.64	47.06	-9.54	41.92	73.9	31.9	254	208	-
Hori.	15690.000	AV	34.46	39.74	-30.58	-	-9.54	34.08	53.9	19.8	150	0	Floor Noise
Hori.	20920.000	AV	30.73	40.07	14.64	47.06	-9.54	28.84	53.9	25.0	254	208	VBW: 50 Hz
Vert.	15690.000	PK	47.17	39.74	-30.58	-	-9.54	46.79	73.9	27.1	150	0	Floor Noise
Vert.	20920.000	PK	47.30	40.07	14.64	47.06	-9.54	45.41	73.9	28.4	222	336	-
Vert.	15690.000	AV	34.45	39.74	-30.58	-	-9.54	34.07	53.9	19.8	150	0	Floor Noise
Vert.	20920.000	AV	34.33	40.07	14.64	47.06	-9.54	32.44	53.9	21.4	222	336	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	6973.288	PK	55.32	35.78	-34.53	-	-	2.19	58.76	-36.47	-27.0	9.4	120	130	-
Hori.	10460.000	PK	51.65	36.38	-33.25	-	-	-9.54	45.24	-49.99	-27.0	22.9	140	36	-
Vert.	6973.297	PK	53.24	35.78	-34.53	-	-	2.19	56.68	-38.55	-27.0	11.5	390	158	-
Vert.	10460.000	PK	50.33	36.38	-33.25	-	-	-9.54	43.92	-51.31	-27.0	24.3	252	234	-

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

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)
Semi Anechoic Chamber	WAC1	WAC1	
Date	October 15, 2024	October 15, 2024	
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH	
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)	

Mode Tx 11ac-40 5310 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	54.46	32.42	-26.42	-	2.19	62.65	73.9	11.2	322	49	-
Hori.	10620.000	PK	53.01	36.94	-33.13	-	-9.54	47.28	73.9	26.6	129	48	-
Hori.	15930.000	PK	48.53	40.04	-30.64	-	-9.54	48.39	73.9	25.5	150	0	Floor Noise
Hori.	21240.000	PK	43.64	40.08	14.77	47.06	-9.54	41.89	73.9	32.0	230	208	-
Hori.	5350.000	AV	34.69	32.42	-26.42	-	2.19	42.88	53.9	11.0	322	49	VBW: 50 Hz
Hori.	10620.000	AV	41.54	36.94	-33.13	-	-9.54	35.81	53.9	18.0	129	48	VBW: 50 Hz
Hori.	15930.000	AV	33.64	40.04	-30.64	-	-9.54	33.50	53.9	20.4	150	0	Floor Noise
Hori.	21240.000	AV	30.45	40.08	14.77	47.06	-9.54	28.70	53.9	25.2	230	208	VBW: 50 Hz
Vert.	5350.000	PK	54.90	32.42	-26.42	-	2.19	63.09	73.9	10.8	295	50	-
Vert.	10620.000	PK	50.00	36.94	-33.13	-	-9.54	44.27	73.9	29.6	240	226	-
Vert.	15930.000	PK	48.50	40.04	-30.64	-	-9.54	48.36	73.9	25.5	150	0	Floor Noise
Vert.	21240.000	PK	46.21	40.08	14.77	47.06	-9.54	44.46	73.9	29.4	194	170	-
Vert.	5350.000	AV	34.78	32.42	-26.42	-	2.19	42.97	53.9	10.9	295	50	VBW: 50 Hz
Vert.	10620.000	AV	38.87	36.94	-33.13	-	-9.54	33.14	53.9	20.7	240	226	VBW: 50 Hz
Vert.	15930.000	AV	33.68	40.04	-30.64	-	-9.54	33.54	53.9	20.3	150	0	Floor Noise
Vert.	21240.000	AV	36.65	40.08	14.77	47.06	-9.54	34.90	53.9	19.0	194	170	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7080.000	PK	55.17	35.79	-34.42	-	-	2.19	58.73	-36.50	-27.0	9.5	186	131	-
Vert.	7080.000	PK	52.58	35.79	-34.42	-	-	2.19	56.14	-39.09	-27.0	12.0	397	167	-

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

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

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

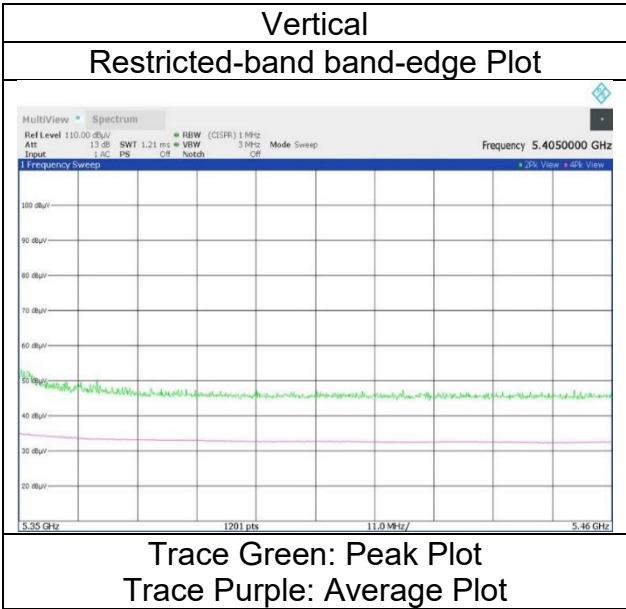
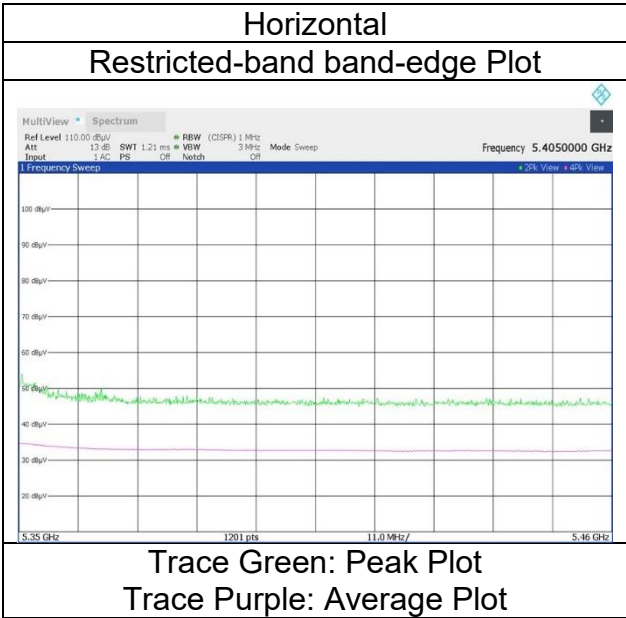
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-40 5310 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5510 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7346.631	PK	53.00	36.67	-34.05	-	2.19	57.81	73.9	16.0	201	134	-
Hori.	11020.000	PK	51.19	37.44	-32.91	-	-9.54	46.18	73.9	27.7	128	52	-
Hori.	22040.000	PK	45.28	40.24	15.04	47.32	-9.54	43.70	73.9	30.2	244	251	-
Hori.	5460.000	AV	33.11	32.85	-26.30	-	2.19	41.85	53.9	12.0	226	43	VBW: 50 Hz
Hori.	7346.631	AV	48.59	36.67	-34.05	-	2.19	53.40	53.9	0.5	201	134	VBW: 50 Hz
Hori.	11020.000	AV	39.74	37.44	-32.91	-	-9.54	34.73	53.9	19.1	128	52	VBW: 50 Hz
Hori.	22040.000	AV	31.99	40.24	15.04	47.32	-9.54	30.41	53.9	23.4	244	251	VBW: 50 Hz
Vert.	7346.657	PK	51.30	36.67	-34.05	-	2.19	56.11	73.9	17.7	378	136	-
Vert.	11020.000	PK	49.60	37.44	-32.91	-	-9.54	44.59	73.9	29.3	218	206	-
Vert.	22040.000	PK	47.78	40.24	15.04	47.32	-9.54	46.20	73.9	27.7	212	336	-
Vert.	5460.000	AV	33.03	32.85	-26.30	-	2.19	41.77	53.9	12.1	258	27	VBW: 50 Hz
Vert.	7346.657	AV	45.49	36.67	-34.05	-	2.19	50.30	53.9	3.6	378	136	VBW: 50 Hz
Vert.	11020.000	AV	38.11	37.44	-32.91	-	-9.54	33.10	53.9	20.8	218	206	VBW: 50 Hz
Vert.	22040.000	AV	37.46	40.24	15.04	47.32	-9.54	35.88	53.9	18.0	212	336	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.89	32.85	-26.30	-	-	2.19	57.63	-37.60	-27.0	10.6	226	43	-
Hori.	5470.000	PK	52.89	32.92	-26.29	-	-	2.19	61.71	-33.52	-27.0	6.5	226	43	-
Hori.	16530.000	PK	48.42	39.92	-30.45	-	-	-9.54	48.35	-46.88	-27.0	19.8	150	0	Floor Noise
Vert.	5460.000	PK	48.81	32.85	-26.30	-	-	2.19	57.55	-37.68	-27.0	10.6	258	27	-
Vert.	5470.000	PK	52.46	32.92	-26.29	-	-	2.19	61.28	-33.95	-27.0	6.9	258	27	-
Vert.	16530.000	PK	48.52	39.92	-30.45	-	-	-9.54	48.45	-46.78	-27.0	19.7	150	0	Floor Noise

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

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

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

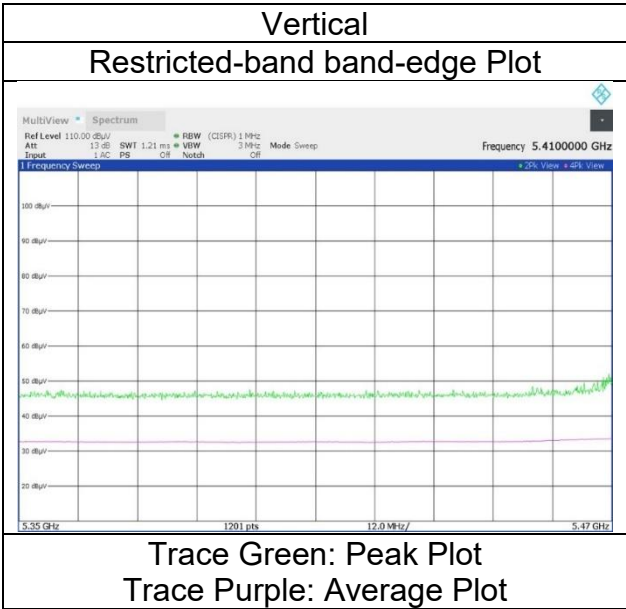
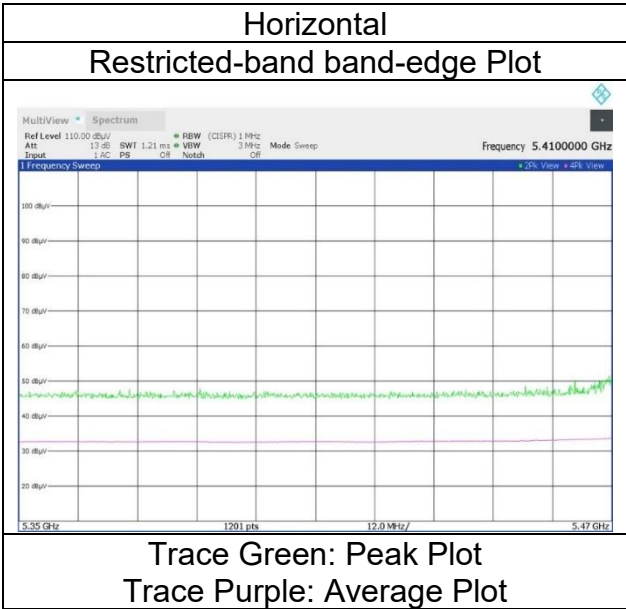
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-40 5510 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	November 26, 2024	October 7, 2024	October 10, 2024
Temperature / Humidity	17 deg. C / 43 % RH	24 deg. C / 54 % RH	21 deg. C / 62 % RH
Engineer	Yosuke Murakami (30 MHz to 1 GHz)	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 14, 2024	October 15, 2024	October 15, 2024
Temperature / Humidity	22 deg. C / 59 % RH	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Hiromasa Sato (10 GHz to 18 GHz)	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5550 MHz

(below 1 GHz and above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	81.438	QP	23.10	9.02	6.79	33.23	0.00	5.68	40.0	34.3	100	0	-
Hori.	110.487	QP	22.90	10.14	6.85	33.24	0.00	6.65	43.5	36.8	100	0	-
Hori.	434.476	QP	22.20	16.15	7.89	32.57	0.00	13.67	46.0	32.3	100	0	-
Hori.	882.007	QP	20.80	21.97	8.82	30.84	0.00	20.75	46.0	25.2	100	0	-
Hori.	7400.000	PK	53.10	36.71	-33.97	-	2.19	58.03	73.9	15.8	225	134	-
Hori.	11100.000	PK	50.94	37.46	-32.76	-	-9.54	46.10	73.9	27.8	133	53	-
Hori.	22200.000	PK	45.39	40.29	15.08	47.32	-9.54	43.90	73.9	30.0	272	74	-
Hori.	7400.000	AV	48.45	36.71	-33.97	-	2.19	53.38	53.9	0.5	225	134	VBW: 50 Hz
Hori.	11100.000	AV	39.69	37.46	-32.76	-	-9.54	34.85	53.9	19.0	133	53	VBW: 50 Hz
Hori.	22200.000	AV	31.00	40.29	15.08	47.32	-9.54	29.51	53.9	24.3	272	74	VBW: 50 Hz
Vert.	62.000	QP	24.70	9.45	6.38	33.17	0.00	7.36	40.0	32.6	100	0	-
Vert.	92.967	QP	22.80	9.25	6.92	33.24	0.00	5.73	43.5	37.7	100	0	-
Vert.	132.000	QP	28.10	11.27	6.79	33.22	0.00	12.94	43.5	30.5	103	128	-
Vert.	421.029	QP	22.40	16.01	7.85	32.60	0.00	13.66	46.0	32.3	100	0	-
Vert.	7400.002	PK	51.44	36.71	-33.97	-	2.19	56.37	73.9	17.5	390	155	-
Vert.	11100.000	PK	50.51	37.46	-32.76	-	-9.54	45.67	73.9	28.2	217	205	-
Vert.	22200.000	PK	46.28	40.29	15.08	47.32	-9.54	44.79	73.9	29.1	192	172	-
Vert.	7400.002	AV	45.75	36.71	-33.97	-	2.19	50.68	53.9	3.2	390	155	VBW: 50 Hz
Vert.	11100.000	AV	38.20	37.46	-32.76	-	-9.54	33.36	53.9	20.5	217	205	VBW: 50 Hz
Vert.	22200.000	AV	36.62	40.29	15.08	47.32	-9.54	35.13	53.9	18.7	192	172	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19$ [dB]

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54$ [dB]

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16650.000	PK	48.56	39.63	-30.23	-	-	-9.54	48.42	-46.81	-27.0	19.8	150	0	Floor Noise
Vert.	16650.000	PK	48.72	39.63	-30.23	-	-	-9.54	48.58	-46.65	-27.0	19.6	150	0	Floor Noise

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

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19$ [dB]

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54$ [dB]

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 18 GHz)

Semi Anechoic Chamber	WAC1	WAC1
Date	October 15, 2024	October 15, 2024
Temperature / Humidity	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5670 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7560.000	PK	50.86	36.61	-33.80	-	2.19	55.86	73.9	18.0	143	124	-
Hori.	11340.000	PK	49.37	37.83	-32.36	-	-9.54	45.30	73.9	28.6	126	46	-
Hori.	22680.000	PK	44.77	40.21	15.25	47.25	-9.54	43.44	73.9	30.4	309	98	-
Hori.	7560.000	AV	43.50	36.61	-33.80	-	2.19	48.50	53.9	5.4	143	124	VBW: 50 Hz
Hori.	11340.000	AV	37.16	37.83	-32.36	-	-9.54	33.09	53.9	20.8	126	46	VBW: 50 Hz
Hori.	22680.000	AV	30.35	40.21	15.25	47.25	-9.54	29.02	53.9	24.8	309	98	VBW: 50 Hz
Vert.	7560.011	PK	48.90	36.61	-33.80	-	2.19	53.90	73.9	20.0	391	175	-
Vert.	11340.000	PK	49.65	37.83	-32.36	-	-9.54	45.58	73.9	28.3	198	166	-
Vert.	22680.000	PK	45.89	40.21	15.25	47.25	-9.54	44.56	73.9	29.3	212	340	-
Vert.	7560.011	AV	40.45	36.61	-33.80	-	2.19	45.45	53.9	8.4	391	175	VBW: 50 Hz
Vert.	11340.000	AV	37.29	37.83	-32.36	-	-9.54	33.22	53.9	20.6	198	166	VBW: 50 Hz
Vert.	22680.000	AV	37.12	40.21	15.25	47.25	-9.54	35.79	53.9	18.1	212	340	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	47.91	33.37	-26.24	-	-	2.19	57.23	-38.00	-27.0	11.0	229	34	-
Hori.	17010.000	PK	48.29	39.71	-29.64	-	-	-9.54	48.82	-46.41	-27.0	19.4	150	0	Floor Noise
Vert.	5725.000	PK	47.89	33.37	-26.24	-	-	2.19	57.21	-38.02	-27.0	11.0	273	198	-
Vert.	17010.000	PK	48.11	39.71	-29.64	-	-	-9.54	48.64	-46.59	-27.0	19.5	150	0	Floor Noise

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

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).

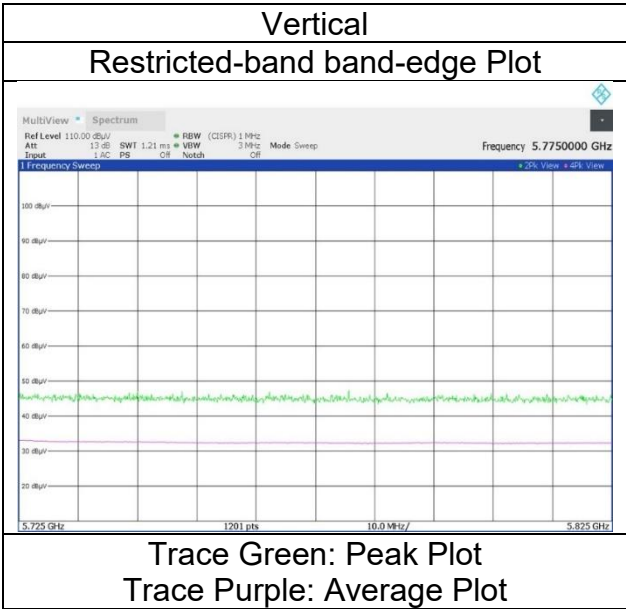
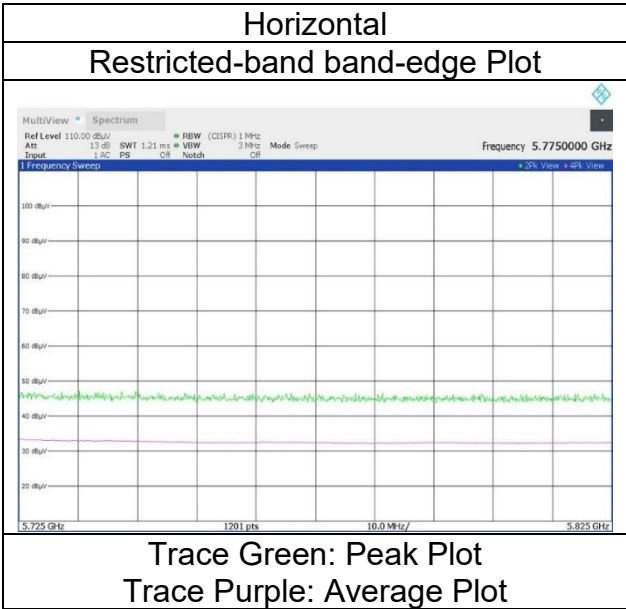
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-40 5670 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 7, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	24 deg. C / 54 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 26.5 GHz)

Semi Anechoic Chamber	WAC1
Date	October 15, 2024
Temperature / Humidity	24 deg. C / 54 % RH
Engineer	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5755 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7673.302	PK	50.56	36.51	-33.72	-	2.19	55.54	73.9	18.3	136	124	-
Hori.	11510.000	PK	50.15	38.12	-32.09	-	-9.54	46.64	73.9	27.2	127	46	-
Hori.	23020.000	PK	44.45	40.15	15.41	47.10	-9.54	43.37	73.9	30.5	313	97	-
Hori.	7673.302	AV	44.00	36.51	-33.72	-	2.19	48.98	53.9	4.9	136	124	VBW: 50 Hz
Hori.	11510.000	AV	38.74	38.12	-32.09	-	-9.54	35.23	53.9	18.6	127	46	VBW: 50 Hz
Hori.	23020.000	AV	31.18	40.15	15.41	47.10	-9.54	30.10	53.9	23.8	313	97	VBW: 50 Hz
Vert.	7673.250	PK	49.26	36.51	-33.72	-	2.19	54.24	73.9	19.6	391	171	-
Vert.	11510.000	PK	49.44	38.12	-32.09	-	-9.54	45.93	73.9	27.9	249	307	-
Vert.	23020.000	PK	46.14	40.15	15.41	47.10	-9.54	45.06	73.9	28.8	202	299	-
Vert.	7673.250	AV	40.39	36.51	-33.72	-	2.19	45.37	53.9	8.5	391	171	VBW: 50 Hz
Vert.	11510.000	AV	37.79	38.12	-32.09	-	-9.54	34.28	53.9	19.6	249	307	VBW: 50 Hz
Vert.	23020.000	AV	36.79	40.15	15.41	47.10	-9.54	35.71	53.9	18.1	202	299	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.01	33.45	-26.24	-	-	2.19	56.41	-38.82	-27.0	11.8	100	35	-
Hori.	5700.000	PK	48.15	33.37	-26.24	-	-	2.19	57.47	-37.76	10.0	47.7	100	35	-
Hori.	5720.000	PK	53.04	33.37	-26.23	-	-	2.19	62.37	-32.86	15.6	48.4	100	35	-
Hori.	5722.649	PK	53.26	33.37	-26.23	-	-	2.19	62.59	-32.64	21.7	54.3	100	35	-
Hori.	5725.000	PK	51.96	33.37	-26.24	-	-	2.19	61.28	-33.95	27.0	60.9	100	35	-
Hori.	17265.000	PK	48.60	40.25	-29.51	-	-	-9.54	49.80	-45.43	-27.0	18.4	150	0	Floor Noise
Vert.	5650.000	PK	47.19	33.45	-26.24	-	-	2.19	56.59	-38.64	-27.0	11.6	343	32	-
Vert.	5700.000	PK	47.34	33.37	-26.24	-	-	2.19	56.66	-38.57	10.0	48.5	343	32	-
Vert.	5720.000	PK	52.27	33.37	-26.23	-	-	2.19	61.60	-33.63	15.6	49.2	343	32	-
Vert.	5723.145	PK	52.39	33.37	-26.23	-	-	2.19	61.72	-33.51	22.8	56.3	343	32	-
Vert.	5725.000	PK	50.90	33.37	-26.24	-	-	2.19	60.22	-35.01	27.0	62.0	343	32	-
Vert.	17265.000	PK	48.33	40.25	-29.51	-	-	-9.54	49.53	-45.70	-27.0	18.7	150	0	Floor Noise

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

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

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

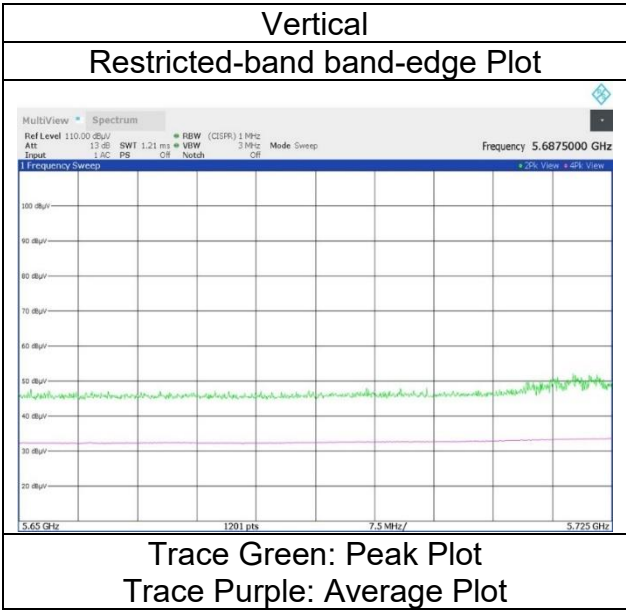
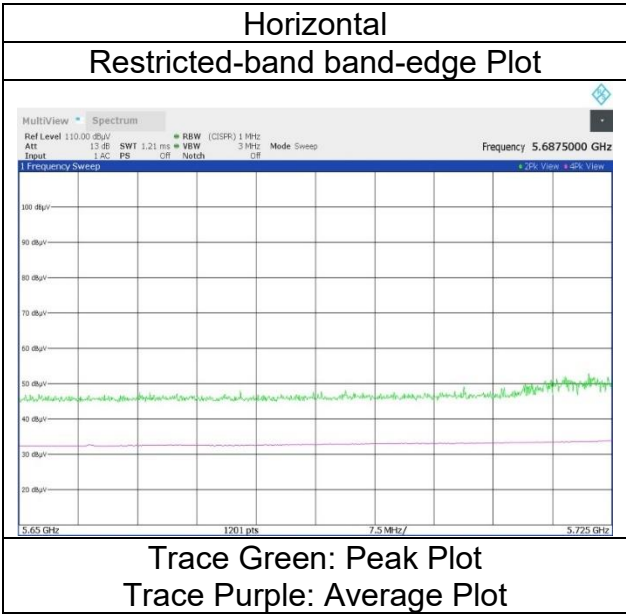
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 7, 2024
24 deg. C / 54 % RH
Takayuki Kobayashi
Tx 11ac-40 5755 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date October 7, 2024 October 10, 2024 October 14, 2024
Temperature / Humidity 24 deg. C / 54 % RH 21 deg. C / 62 % RH 22 deg. C / 59 % RH
Engineer Takayuki Kobayashi Yohsuke Matsuzawa Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 26.5 GHz)

Semi Anechoic Chamber WAC1
Date October 15, 2024
Temperature / Humidity 24 deg. C / 54 % RH
Engineer Yuta Shiba
(26.5 GHz to 40 GHz)

Mode Tx 11ac-40 5795 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	7726.638	PK	50.86	36.53	-33.70	-	2.19	55.88	73.9	18.0	105	126	-
Hori.	11590.000	PK	50.30	38.19	-32.13	-	-9.54	46.82	73.9	27.0	127	44	-
Hori.	7726.638	AV	45.03	36.53	-33.70	-	2.19	50.05	53.9	3.8	105	126	VBW: 50 Hz
Hori.	11590.000	AV	39.21	38.19	-32.13	-	-9.54	35.73	53.9	18.1	127	44	VBW: 50 Hz
Vert.	7726.653	PK	49.43	36.53	-33.70	-	2.19	54.45	73.9	19.4	386	171	-
Vert.	11590.000	PK	49.88	38.19	-32.13	-	-9.54	46.40	73.9	27.5	249	308	-
Vert.	7726.653	AV	40.24	36.53	-33.70	-	2.19	45.26	53.9	8.6	386	171	VBW: 50 Hz
Vert.	11590.000	AV	38.43	38.19	-32.13	-	-9.54	34.95	53.9	18.9	249	308	VBW: 50 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	Fac. [dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5850.000	PK	48.13	33.35	-26.20	-	-	2.19	57.47	-37.76	27.0	64.7	130	33	-
Hori.	5855.000	PK	47.84	33.36	-26.20	-	-	2.19	57.19	-38.04	15.6	53.6	130	33	-
Hori.	5875.000	PK	46.82	33.38	-26.20	-	-	2.19	56.19	-39.04	10.0	49.0	130	33	-
Hori.	5925.000	PK	46.65	33.53	-26.20	-	-	2.19	56.17	-39.06	-27.0	12.0	130	33	-
Hori.	17385.000	PK	48.38	40.41	-29.45	-	-	-9.54	49.80	-45.43	-27.0	18.4	150	0	Floor Noise
Hori.	23180.000	PK	43.77	40.13	15.45	46.98	-	-9.54	42.83	-52.40	-27.0	25.4	306	92	-
Vert.	5850.000	PK	47.89	33.35	-26.20	-	-	2.19	57.23	-38.00	27.0	65.0	323	35	-
Vert.	5855.000	PK	47.34	33.36	-26.20	-	-	2.19	56.69	-38.54	15.6	54.1	323	35	-
Vert.	5875.000	PK	46.89	33.38	-26.20	-	-	2.19	56.26	-38.97	10.0	48.9	323	35	-
Vert.	5925.000	PK	46.56	33.53	-26.20	-	-	2.19	56.08	-39.15	-27.0	12.1	323	35	-
Vert.	17385.000	PK	48.68	40.41	-29.45	-	-	-9.54	50.10	-45.13	-27.0	18.1	150	0	Floor Noise
Vert.	23180.000	PK	45.85	40.13	15.45	46.98	-	-9.54	44.91	-50.32	-27.0	23.3	224	316	-

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

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

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

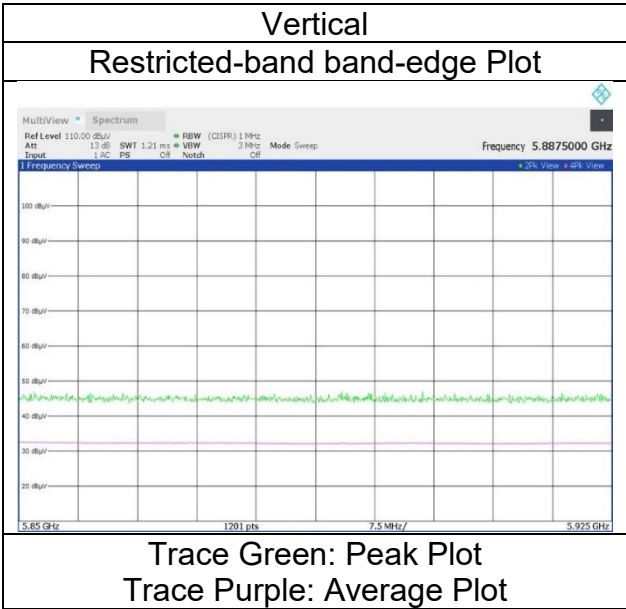
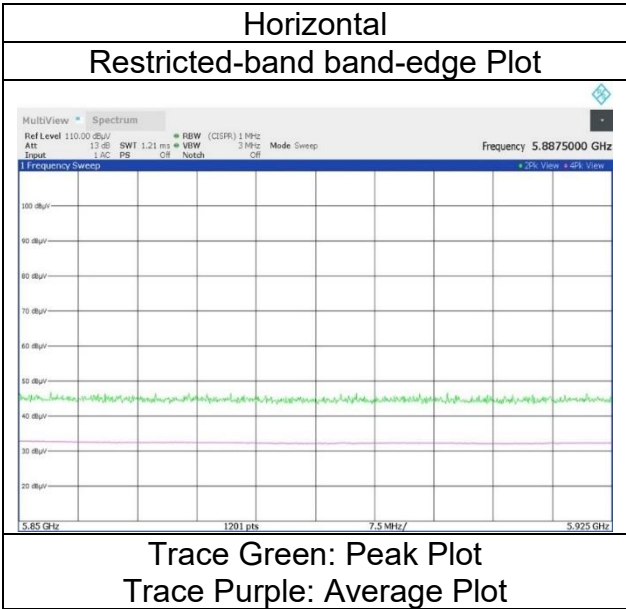
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 8, 2024
25 deg. C / 65 % RH
Yohsuke Matsuzawa
Tx 11ac-40 5795 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date October 8, 2024 October 10, 2024 October 14, 2024
Temperature / Humidity 25 deg. C / 65 % RH 21 deg. C / 62 % RH 22 deg. C / 59 % RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 26.5 GHz)

Semi Anechoic Chamber WAC1
Date October 15, 2024
Temperature / Humidity 24 deg. C / 54 % RH
Engineer Yuta Shiba
(26.5 GHz to 40 GHz)

Mode Tx 11ac-80 5210 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5150.000	PK	54.42	32.58	-26.65	-	2.19	62.54	73.9	11.3	205	57	-
Hori.	15630.000	PK	48.71	39.73	-30.58	-	-9.54	48.32	73.9	25.5	150	0	Floor Noise
Hori.	20840.000	PK	43.58	40.10	14.58	47.03	-9.54	41.69	73.9	32.2	293	140	-
Hori.	5150.000	AV	35.13	32.58	-26.65	-	2.19	43.25	53.9	10.6	205	57	VBW: 100 Hz
Hori.	15630.000	AV	33.83	39.73	-30.58	-	-9.54	33.44	53.9	20.4	150	0	Floor Noise
Hori.	20840.000	AV	29.80	40.10	14.58	47.03	-9.54	27.91	53.9	25.9	293	140	VBW: 100 Hz
Vert.	5150.000	PK	52.64	32.58	-26.65	-	2.19	60.76	73.9	13.1	204	20	-
Vert.	15630.000	PK	48.31	39.73	-30.58	-	-9.54	47.92	73.9	25.9	150	0	Floor Noise
Vert.	20840.000	PK	45.68	40.10	14.58	47.03	-9.54	43.79	73.9	30.1	197	170	-
Vert.	5150.000	AV	34.77	32.58	-26.65	-	2.19	42.89	53.9	11.0	204	20	VBW: 100 Hz
Vert.	15630.000	AV	33.91	39.73	-30.58	-	-9.54	33.52	53.9	20.3	150	0	Floor Noise
Vert.	20840.000	AV	35.37	40.10	14.58	47.03	-9.54	33.48	53.9	20.4	197	170	VBW: 100 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [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	Detector	Reading	Ant. Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	Fac. [dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	6946.635	PK	55.22	35.80	-34.52	-	-	2.19	58.69	-36.54	-27.0	9.5	105	126	-
Hori.	10420.000	PK	54.46	36.31	-33.33	-	-	-9.54	47.90	-47.33	-27.0	20.3	131	49	-
Vert.	6946.269	PK	52.83	35.80	-34.52	-	-	2.19	56.30	-38.93	-27.0	11.9	397	159	-
Vert.	10420.000	PK	50.97	36.31	-33.33	-	-	-9.54	44.41	-50.82	-27.0	23.8	216	222	-

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

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

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

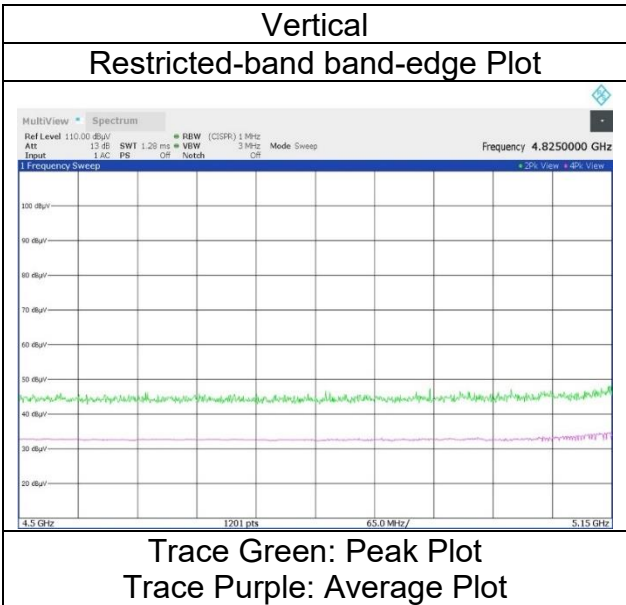
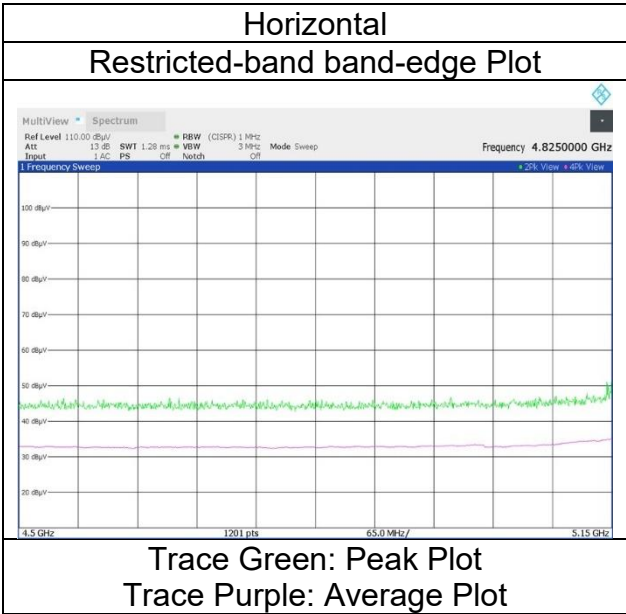
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 8, 2024
25 deg. C / 65 % RH
Yohsuke Matsuzawa
Tx 11ac-80 5210 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 8, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	25 deg. C / 65 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 26.5 GHz)

Semi Anechoic Chamber	WAC1
Date	October 15, 2024
Temperature / Humidity	24 deg. C / 54 % RH
Engineer	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-80 5290 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	53.40	32.42	-26.42	-	2.19	61.59	73.9	12.3	147	55	
Hori.	15870.000	PK	48.86	40.00	-30.62	-	-9.54	48.70	73.9	25.2	150	0	Floor Noise
Hori.	21160.000	PK	43.59	40.07	14.74	47.06	-9.54	41.80	73.9	32.1	302	165	
Hori.	5350.000	AV	36.09	32.42	-26.42	-	2.19	44.28	53.9	9.6	147	55	VBW: 100 Hz
Hori.	15870.000	AV	33.88	40.00	-30.62	-	-9.54	33.72	53.9	20.1	150	0	Floor Noise
Hori.	21160.000	AV	29.41	40.07	14.74	47.06	-9.54	27.62	53.9	26.2	302	165	VBW: 100 Hz
Vert.	5350.000	PK	51.36	32.42	-26.42	-	2.19	59.55	73.9	14.3	202	135	
Vert.	15870.000	PK	47.99	40.00	-30.62	-	-9.54	47.83	73.9	26.0	150	0	Floor Noise
Vert.	21160.000	PK	45.83	40.07	14.74	47.06	-9.54	44.04	73.9	29.8	199	166	
Vert.	5350.000	AV	35.08	32.42	-26.42	-	2.19	43.27	53.9	10.6	202	135	VBW: 100 Hz
Vert.	15870.000	AV	33.70	40.00	-30.62	-	-9.54	33.54	53.9	20.3	150	0	Floor Noise
Vert.	21160.000	AV	35.72	40.07	14.74	47.06	-9.54	33.93	53.9	19.9	199	166	VBW: 100 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7053.281	PK	54.84	35.76	-34.45	-	-	2.19	58.34	-36.89	-27.0	9.8	149	130	-
Hori.	10580.000	PK	52.46	36.79	-33.15	-	-	-9.54	46.56	-48.67	-27.0	21.6	129	48	-
Vert.	7053.241	PK	52.21	35.76	-34.45	-	-	2.19	55.71	-39.52	-27.0	12.5	376	158	-
Vert.	10580.000	PK	50.38	36.79	-33.15	-	-	-9.54	44.48	-50.75	-27.0	23.7	244	241	-

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

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

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

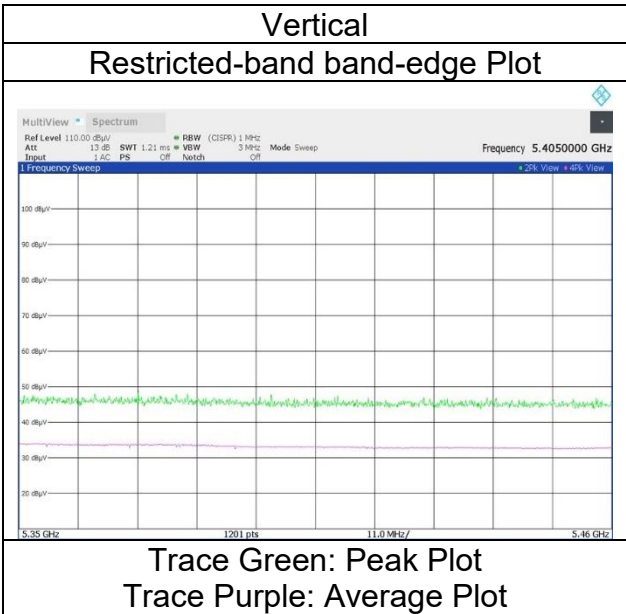
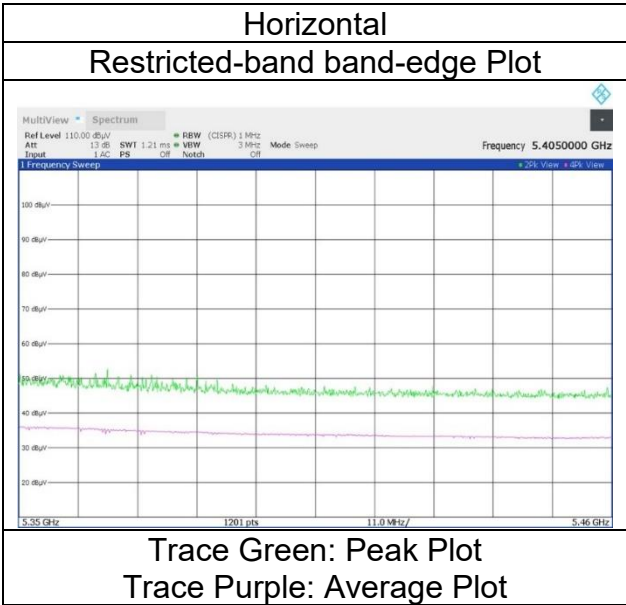
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 8, 2024
25 deg. C / 65 % RH
Yohsuke Matsuzawa
Tx 11ac-80 5290 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 8, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	25 deg. C / 65 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 26.5 GHz)
Semi Anechoic Chamber	WAC1		
Date	October 15, 2024		
Temperature / Humidity	24 deg. C / 54 % RH		
Engineer	Yuta Shiba (26.5 GHz to 40 GHz)		
Mode	Tx 11ac-80 5530 MHz		

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency	Detector	Reading	Ant. Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	7373.357	PK	52.58	36.69	-34.02	-	2.19	57.44	73.9	16.4	174	128	-
Hori.	11060.000	PK	50.81	37.46	-32.84	-	-9.54	45.89	73.9	28.0	127	54	-
Hori.	22120.000	PK	45.49	40.27	-15.06	47.32	-9.54	43.96	73.9	29.9	213	189	-
Hori.	5460.000	AV	37.20	32.85	-26.30	-	2.19	45.94	53.9	7.9	133	45	VBW: 100 Hz
Hori.	7373.357	AV	48.58	36.69	-34.02	-	2.19	53.44	53.9	0.4	174	128	VBW: 100 Hz
Hori.	11060.000	AV	40.48	37.46	-32.84	-	-9.54	35.56	53.9	18.3	127	54	VBW: 100 Hz
Hori.	22120.000	AV	32.04	40.27	-15.06	47.32	-9.54	30.51	53.9	23.3	213	189	VBW: 100 Hz
Vert.	7373.357	PK	50.65	36.69	-34.02	-	2.19	55.51	73.9	18.3	379	165	-
Vert.	11060.000	PK	49.83	37.46	-32.84	-	-9.54	44.91	73.9	28.9	186	162	-
Vert.	22120.000	PK	46.95	40.27	-15.06	47.32	-9.54	45.42	73.9	28.4	188	171	-
Vert.	5460.000	AV	36.27	32.85	-26.30	-	2.19	45.01	53.9	8.8	186	200	VBW: 100 Hz
Vert.	7373.357	AV	45.26	36.69	-34.02	-	2.19	50.12	53.9	3.7	379	165	VBW: 100 Hz
Vert.	11060.000	AV	37.90	37.46	-32.84	-	-9.54	32.98	53.9	20.9	186	162	VBW: 100 Hz
Vert.	22120.000	AV	37.31	40.27	-15.06	47.32	-9.54	35.78	53.9	18.1	188	171	VBW: 100 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [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	Detector	Reading	Ant. Fac.	Loss	Gain	Duty	Distance	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5460.000	PK	51.89	32.85	-26.30	-	-	2.19	60.63	-34.60	-27.0	7.5	133	45	-
Hori.	5470.000	PK	54.31	32.92	-26.29	-	-	2.19	63.13	-32.10	-27.0	5.1	133	45	-
Hori.	16590.000	PK	48.25	39.77	-30.35	-	-	-9.54	48.13	-47.10	-27.0	20.1	150	0	Floor Noise
Vert.	5460.000	PK	50.03	32.85	-26.30	-	-	2.19	58.77	-36.46	-27.0	9.4	186	200	-
Vert.	5470.000	PK	52.15	32.92	-26.29	-	-	2.19	60.97	-34.26	-27.0	7.2	186	200	-
Vert.	16590.000	PK	48.62	39.77	-30.35	-	-	-9.54	48.50	-46.73	-27.0	19.7	150	0	Floor Noise

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

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

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

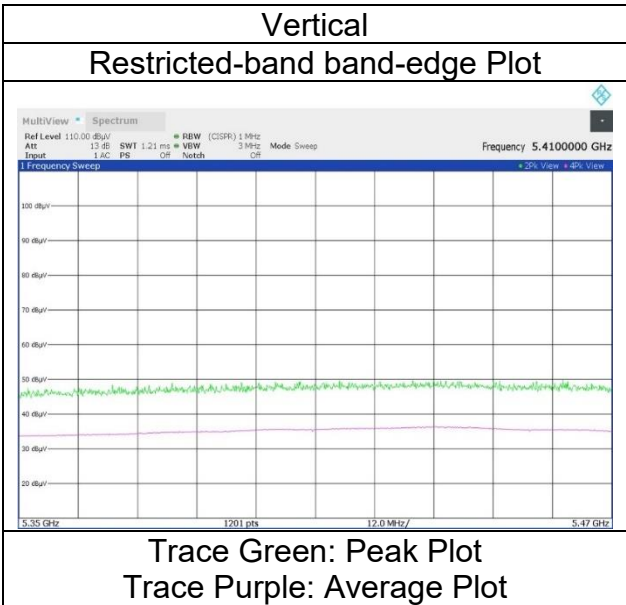
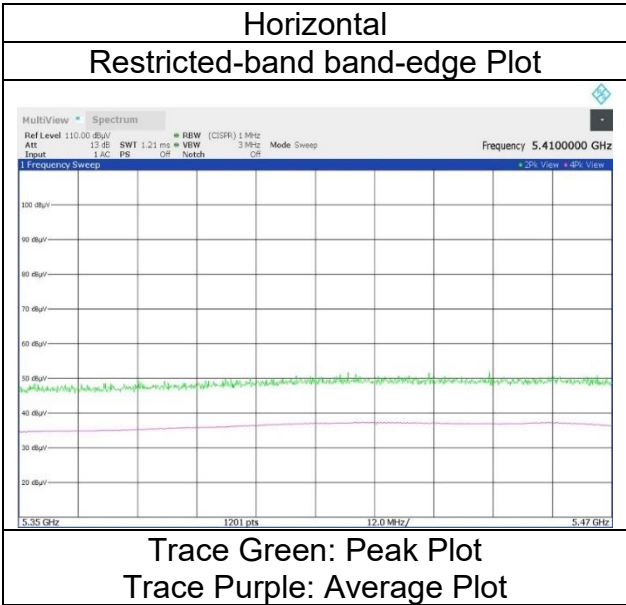
Distance Fac. : 1 GHz to 10 GHz: 20log (3.86 [m] / 3.0 [m]) = 2.19 [dB]

10 GHz to 40 GHz: 20log (1.00 [m] / 3.0 [m]) = -9.54 [dB]

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 8, 2024
25 deg. C / 65 % RH
Yohsuke Matsuzawa
Tx 11ac-80 5530 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 8, 2024	October 10, 2024	October 14, 2024
Temperature / Humidity	25 deg. C / 65 % RH	21 deg. C / 62 % RH	22 deg. C / 59 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)	Hiromasa Sato (10 GHz to 26.5 GHz)

Semi Anechoic Chamber	WAC1
Date	October 15, 2024
Temperature / Humidity	24 deg. C / 54 % RH
Engineer	Yuta Shiba (26.5 GHz to 40 GHz)

Mode Tx 11ac-80 5610 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7480.000	PK	51.24	36.68	-33.87	-	2.19	56.24	73.9	17.6	187	134	-
Hori.	11220.000	PK	49.58	37.61	-32.56	-	-9.54	45.09	73.9	28.8	130	52	-
Hori.	22440.000	PK	44.20	40.26	15.15	47.32	-9.54	42.75	73.9	31.1	281	159	-
Hori.	7480.000	AV	46.01	36.68	-33.87	-	2.19	51.01	53.9	2.8	187	134	VBW: 100 Hz
Hori.	11220.000	AV	38.09	37.61	-32.56	-	-9.54	33.60	53.9	20.3	130	52	VBW: 100 Hz
Hori.	22440.000	AV	31.28	40.26	15.15	47.32	-9.54	29.83	53.9	24.0	281	159	VBW: 100 Hz
Vert.	7480.000	PK	50.22	36.68	-33.87	-	2.19	55.22	73.9	18.6	393	153	-
Vert.	11220.000	PK	49.65	37.61	-32.56	-	-9.54	45.16	73.9	28.7	198	165	-
Vert.	22440.000	PK	46.83	40.26	15.15	47.32	-9.54	45.38	73.9	28.5	233	336	-
Vert.	7480.000	AV	43.80	36.68	-33.87	-	2.19	48.80	53.9	5.1	393	153	VBW: 100 Hz
Vert.	11220.000	AV	37.90	37.61	-32.56	-	-9.54	33.41	53.9	20.4	198	165	VBW: 100 Hz
Vert.	22440.000	AV	37.23	40.26	15.15	47.32	-9.54	35.78	53.9	18.1	233	336	VBW: 100 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	49.34	33.37	-26.24	-	-	2.19	58.66	-36.57	-27.0	9.5	100	38	-
Hori.	16830.000	PK	48.84	39.47	-29.94	-	-	-9.54	48.83	-46.40	-27.0	19.4	150	0	Floor Noise
Vert.	5725.000	PK	47.72	33.37	-26.24	-	-	2.19	57.04	-38.19	-27.0	11.1	326	172	-
Vert.	16830.000	PK	48.21	39.47	-29.94	-	-	-9.54	48.20	-47.03	-27.0	20.0	150	0	Floor Noise

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

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

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

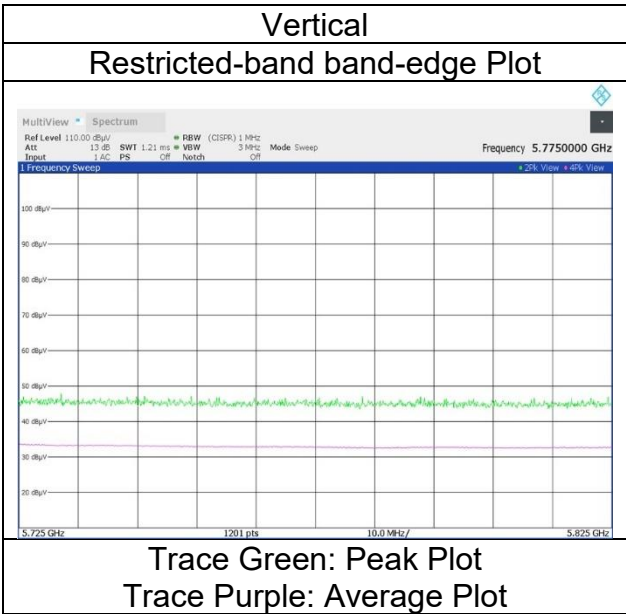
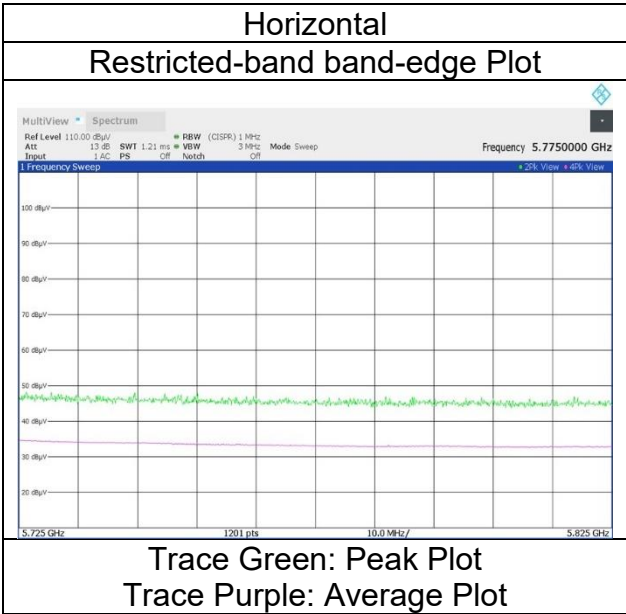
Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
WAC1
October 8, 2024
25 deg. C / 65 % RH
Yohsuke Matsuzawa
Tx 11ac-80 5610 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1 WAC1
Date October 8, 2024 October 10, 2024 October 14, 2024
Temperature / Humidity 25 deg. C / 65 % RH 21 deg. C / 62 % RH 22 deg. C / 59 % RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa Hiromasa Sato
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 26.5 GHz)

Semi Anechoic Chamber WAC1
Date October 15, 2024
Temperature / Humidity 24 deg. C / 54 % RH
Engineer Yuta Shiba
(26.5 GHz to 40 GHz)

Mode Tx 11ac-80 5775 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7700.000	PK	50.74	36.53	-33.72	-	2.19	55.74	73.9	18.1	162	125	-
Hori.	11550.000	PK	50.89	38.15	-32.11	-	-9.54	47.39	73.9	26.5	135	43	-
Hori.	23100.000	PK	44.18	40.14	15.43	47.04	-9.54	43.17	73.9	30.7	270	93	-
Hori.	7700.000	AV	44.76	36.53	-33.72	-	2.19	49.76	53.9	4.1	162	125	VBW: 100 Hz
Hori.	11550.000	AV	39.11	38.15	-32.11	-	-9.54	35.61	53.9	18.2	135	43	VBW: 100 Hz
Hori.	23100.000	AV	31.53	40.14	15.43	47.04	-9.54	30.52	53.9	23.3	270	93	VBW: 100 Hz
Vert.	7700.000	PK	49.47	36.53	-33.72	-	2.19	54.47	73.9	19.4	388	171	-
Vert.	11550.000	PK	49.61	38.15	-32.11	-	-9.54	46.11	73.9	27.7	249	307	-
Vert.	23100.000	PK	46.26	40.14	15.43	47.04	-9.54	45.25	73.9	28.6	213	307	-
Vert.	7700.000	AV	40.71	36.53	-33.72	-	2.19	45.71	53.9	8.1	388	171	VBW: 100 Hz
Vert.	11550.000	AV	38.05	38.15	-32.11	-	-9.54	34.55	53.9	19.3	249	307	VBW: 100 Hz
Vert.	23100.000	AV	38.01	40.14	15.43	47.04	-9.54	37.00	53.9	16.9	213	307	VBW: 100 Hz

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.40	33.45	-26.24	-	-	2.19	56.80	-38.43	-27.0	11.4	150	37	-
Hori.	5700.000	PK	48.07	33.37	-26.24	-	-	2.19	57.39	-37.84	10.0	47.8	150	37	-
Hori.	5720.000	PK	55.05	33.37	-26.23	-	-	2.19	64.38	-30.85	15.6	46.4	150	37	-
Hori.	5725.000	PK	57.66	33.37	-26.24	-	-	2.19	66.98	-28.25	27.0	55.2	150	37	-
Hori.	5850.000	PK	48.11	33.35	-26.20	-	-	2.19	57.45	-37.78	27.0	64.7	150	37	-
Hori.	5855.000	PK	48.10	33.36	-26.20	-	-	2.19	57.45	-37.78	15.6	53.3	150	37	-
Hori.	5875.000	PK	48.52	33.38	-26.20	-	-	2.19	57.89	-37.34	10.0	47.3	150	37	-
Hori.	5925.000	PK	47.95	33.53	-26.20	-	-	2.19	57.47	-37.76	-27.0	10.7	150	37	-
Hori.	17325.000	PK	48.10	40.31	-29.47	-	-	-9.54	49.40	-45.83	-27.0	18.8	150	0	Floor Noise
Vert.	5650.000	PK	46.61	33.45	-26.24	-	-	2.19	56.01	-39.22	-27.0	12.2	396	13	-
Vert.	5700.000	PK	46.20	33.37	-26.24	-	-	2.19	55.52	-39.71	10.0	49.7	396	13	-
Vert.	5720.000	PK	48.35	33.37	-26.23	-	-	2.19	57.68	-37.55	15.6	53.1	396	13	-
Vert.	5725.000	PK	55.00	33.37	-26.24	-	-	2.19	64.32	-30.91	27.0	57.9	396	13	-
Vert.	5850.000	PK	47.28	33.35	-26.20	-	-	2.19	56.62	-38.61	27.0	65.6	396	13	-
Vert.	5855.000	PK	45.57	33.36	-26.20	-	-	2.19	54.92	-40.31	15.6	55.9	396	13	-
Vert.	5875.000	PK	45.80	33.38	-26.20	-	-	2.19	55.17	-40.06	10.0	50.0	396	13	-
Vert.	5925.000	PK	46.58	33.53	-26.20	-	-	2.19	56.10	-39.13	-27.0	12.1	396	13	-
Vert.	17325.000	PK	48.58	40.31	-29.47	-	-	-9.54	49.88	-45.35	-27.0	18.3	150	0	Floor Noise

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

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

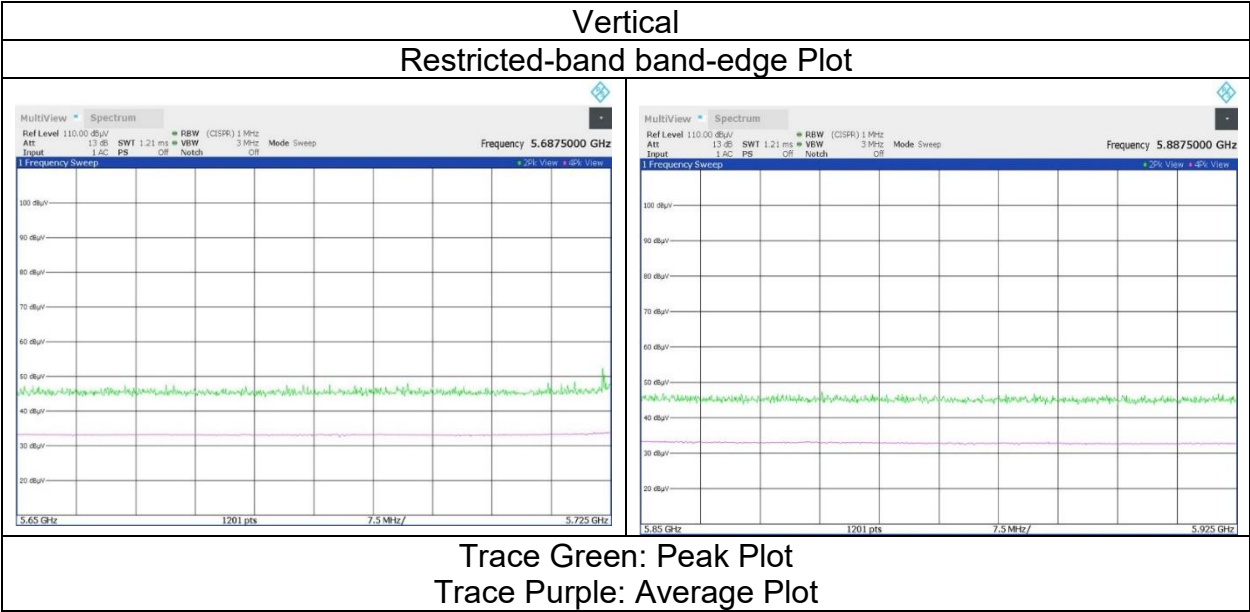
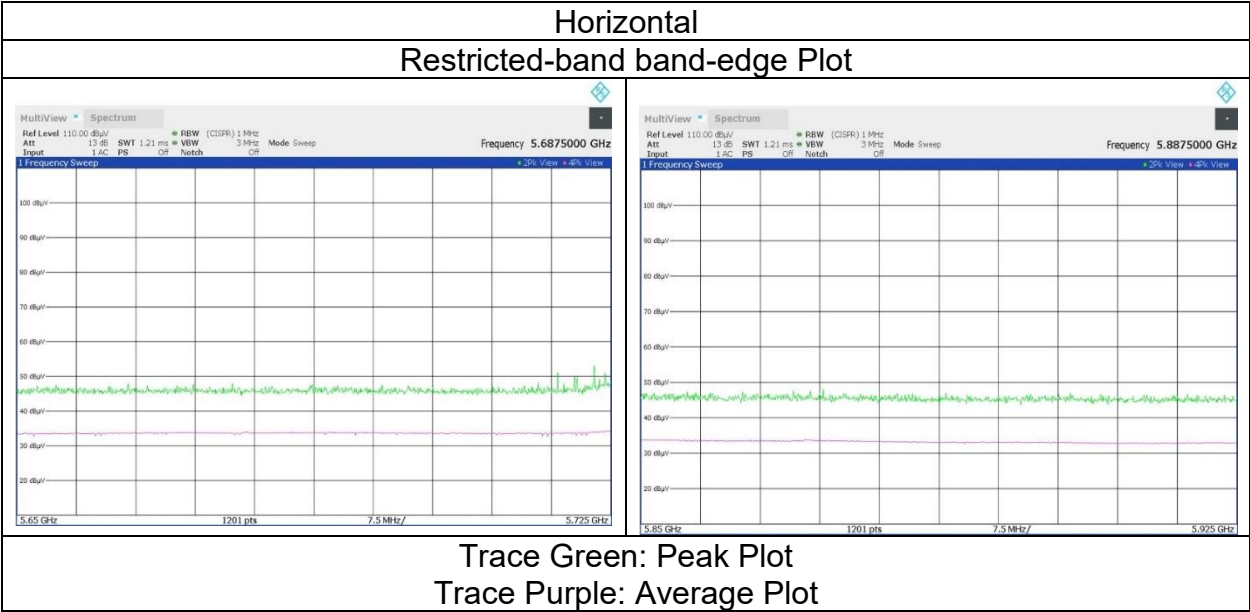
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance Fac. : 1 GHz to 10 GHz: $20\log(3.86[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	October 8, 2024
Temperature / Humidity	25 deg. C / 65 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ac-80 5775 MHz



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	November 26, 2024	November 20, 2024	November 19, 2024
Temperature / Humidity	17 deg. C / 43 % RH	20 deg. C / 45 % RH	21 deg. C / 35 % RH
Engineer	Yosuke Murakami (30 MHz to 1 GHz)	Miku Ikudome (1 GHz to 6.4 GHz)	Yosuke Murakami (6.4 GHz to 10 GHz)
Semi Anechoic Chamber	WAC1		
Date	November 22, 2024		
Temperature / Humidity	17 deg. C / 58 % RH		
Engineer	Miku Ikudome (10 GHz to 40 GHz)		

Mode Tx 11a 5500 MHz with BT LE 1M-PHY 2480 MHz

(below 1 GHz and above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	81.299	QP	23.10	9.02	6.78	33.23	0.00	5.67	40.0	34.3	100	0	-
Hori.	113.151	QP	22.90	10.26	6.84	33.24	0.00	6.76	43.5	36.7	100	0	-
Hori.	433.960	QP	22.20	16.14	7.89	32.58	0.00	13.65	46.0	32.3	100	0	-
Hori.	881.774	QP	20.90	21.97	8.82	30.84	0.00	20.85	46.0	25.1	100	0	-
Hori.	7333.292	PK	52.34	36.65	-33.90	-	2.19	57.28	73.9	16.6	399	172	-
Hori.	11000.000	PK	50.77	37.44	-32.84	-	-9.54	45.83	73.9	28.0	135	47	-
Hori.	7333.292	AV	48.11	36.65	-33.90	-	2.19	53.05	53.9	0.8	399	172	VBW : 500 Hz
Hori.	11000.000	AV	40.61	37.44	-32.84	-	-9.54	35.67	53.9	18.2	135	47	VBW : 500 Hz
Vert.	62.038	QP	25.70	9.45	6.38	33.17	0.00	8.36	40.0	31.6	102	254	-
Vert.	92.500	QP	23.50	9.23	6.93	33.24	0.00	6.42	43.5	37.0	100	0	-
Vert.	132.142	QP	28.00	11.28	6.79	33.22	0.00	12.85	43.5	30.6	101	136	-
Vert.	422.217	QP	22.50	16.01	7.86	32.59	0.00	13.78	46.0	32.2	100	0	-
Vert.	7333.280	PK	50.68	36.65	-33.90	-	2.19	55.62	73.9	18.2	150	174	-
Vert.	11000.000	PK	48.81	37.44	-32.84	-	-9.54	43.87	73.9	30.0	154	113	-
Vert.	7333.280	AV	44.57	36.65	-33.90	-	2.19	49.51	53.9	4.3	150	174	VBW : 500 Hz
Vert.	11000.000	AV	34.00	37.44	-32.84	-	-9.54	29.06	53.9	24.8	154	113	VBW : 500 Hz

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(2.19[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16500.000	PK	47.78	39.99	-30.49	-	-	-9.54	47.74	-47.49	-27.0	20.4	150	0	Floor Noise
Hori.	22000.000	PK	43.81	40.25	15.03	47.32	-	-9.54	42.23	-53.00	-27.0	26.0	154	227	-
Vert.	16500.000	PK	48.35	39.99	-30.49	-	-	-9.54	48.31	-46.92	-27.0	19.9	150	0	Floor Noise
Vert.	22000.000	PK	44.20	40.25	15.03	47.32	-	-9.54	42.62	-52.61	-27.0	25.6	207	333	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

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

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(2.19[m]/3.0[m]) = 2.19[dB]$

10 GHz to 40 GHz: $20\log(1.00[m]/3.0[m]) = -9.54[dB]$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	February 6, 2025
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Takayuki Kobayashi
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-80 5530 MHz with BT LE 1M-PHY 2480 MHz

(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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	AV	34.09	32.85	-26.04	-	2.19	43.09	53.9	10.8	129	28	VBW : 100 Hz
Vert.	5460.000	AV	33.37	32.85	-26.04	-	2.19	42.37	53.9	11.5	232	189	VBW : 100 Hz

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz: $20\log(2.19 [m] / 3.0 [m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	48.49	32.85	-26.04	-	-	2.19	57.49	-37.74	-27.0	10.7	129	28	-
Hori.	5470.000	PK	52.02	32.92	-26.03	-	-	2.19	61.10	-34.13	-27.0	7.1	129	28	-
Vert.	5460.000	PK	47.68	32.85	-26.04	-	-	2.19	56.68	-38.55	-27.0	11.5	232	189	-
Vert.	5470.000	PK	50.03	32.92	-26.03	-	-	2.19	59.11	-36.12	-27.0	9.1	232	189	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz) - Gain(Amp) (1 GHz to 18 GHz)) - Gain(Amp) (only below 1 GHz & above 18 GHz) + Duty Fac. + Distance Fac.

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

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

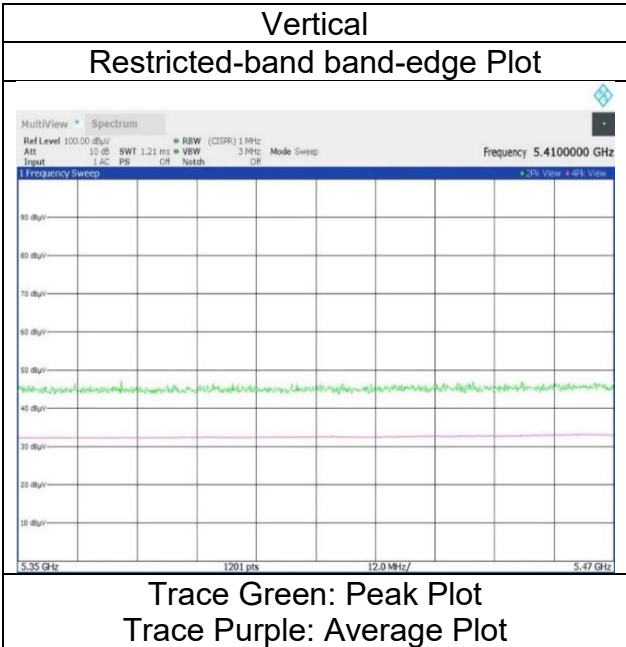
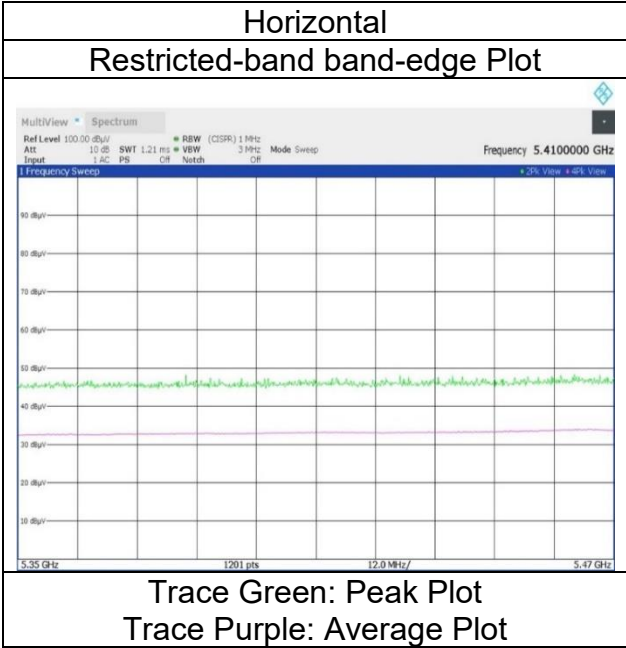
Distance Fac. : 1 GHz to 10 GHz: $20\log(2.19 [m] / 3.0 [m]) = 2.19 [dB]$

10 GHz to 40 GHz: $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

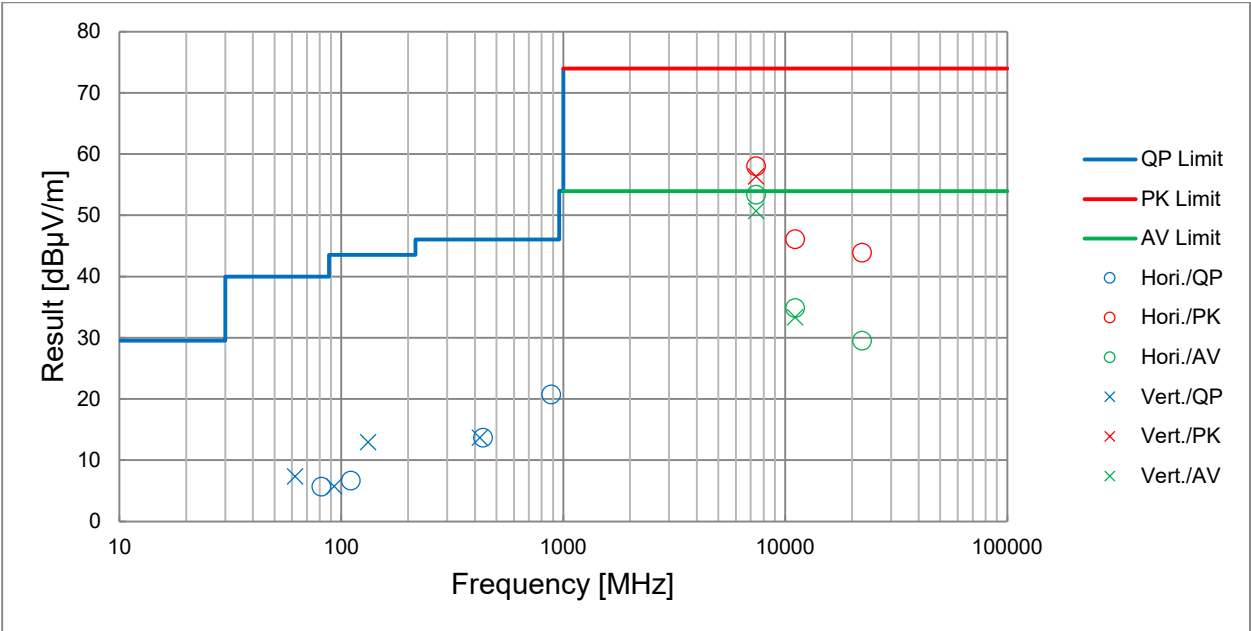
Shonan EMC Lab.
WAC1
February 6, 2025
20 deg. C / 30 % RH
Takayuki Kobayashi
Tx 11ac-80 5530 MHz with BLE 1M-PHY 2480 MHz



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

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

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	November 26, 2024	October 7, 2024	October 10, 2024
Temperature / Humidity	17 deg. C / 43 % RH	24 deg. C / 54 % RH	21 deg. C / 62 % RH
Engineer	Yosuke Murakami (30 MHz to 1 GHz)	Takayuki Kobayashi (1 GHz to 6.4 GHz)	Yohsuke Matsuzawa (6.4 GHz to 10 GHz)
Semi Anechoic Chamber	WAC1	WAC1	WAC1
Date	October 14, 2024	October 15, 2024	October 15, 2024
Temperature / Humidity	22 deg. C / 59 % RH	24 deg. C / 61 % RH	24 deg. C / 54 % RH
Engineer	Hiromasa Sato (10 GHz to 18 GHz)	Yosuke Murakami (18 GHz to 26.5 GHz)	Yuta Shiba (26.5 GHz to 40 GHz)
Mode	Tx 11ac-40 5550 MHz		

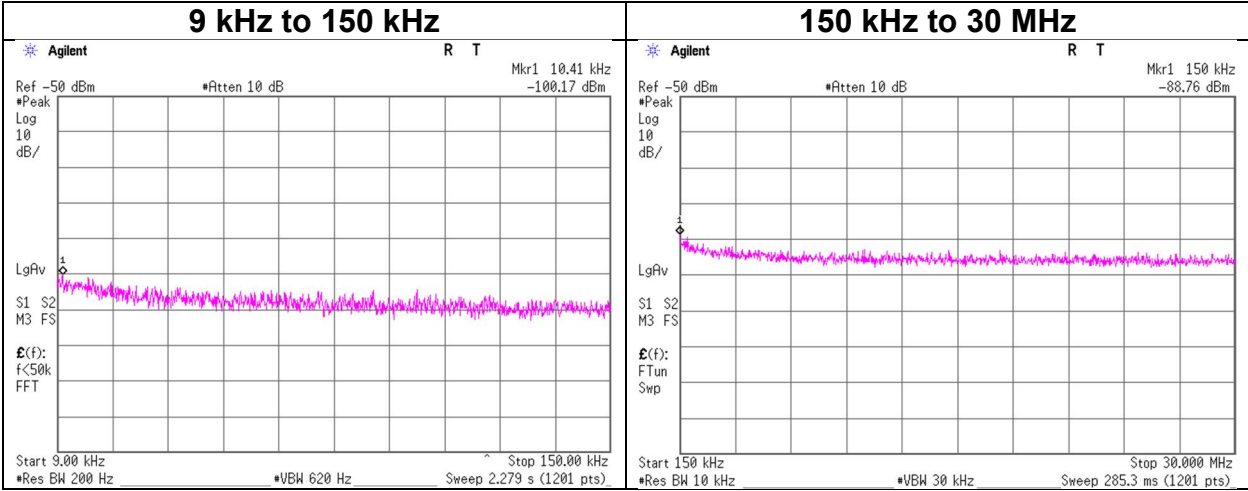


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
October 2, 2024
25 deg. C / 53 % RH
Yosuke Murakami
Tx 11ac-40 5550 MHz



FREQ	Reading	Cable	Attenuator	Antenna	N	EIRP	Distance	Ground	E (field	Limit	Margin
[kHz]	[dBm]	Loss	Loss	Gain *1)	(Number of	[dBm]	[m]	bounce	Strength)	[dBuV/m]	[dB]
		[dB]	[dB]		output)			[dB]	[dBuV/m]		
10.4	-100.17	0.01	9.83	2.00	1	-88.33	300.00	6.00	-27.07	47.20	74.27
150.0	-88.76	0.01	9.83	2.00	1	-76.92	300.00	6.00	-15.66	24.00	39.66

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

*1) 2.0 dBi was applied to the result based on KDB 789033 since antenna gain was less than 2.0 dBi.

APPENDIX 2: Test Instruments

Test Equipment[1/2]

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	145111	Digital Tester	SANWA	PC500	7019232	2024/09/24	12
AT	145801	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250152	2024/08/29	12
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	175822	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/11	12
AT	197395	Microwave cable	RS Pro	R-132G7210 100CO	-	2024/04/10	12
AT	204924	Terminator	Weinschel - API Technologies Corp	M1459A	110107	2024/02/14	12
AT	239653	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	2001221/2	2024/08/20	12
AT	242066	Attenuator	Weinschel Corp.	54A-10	120521	2024/11/06	12
AT	249685	Terminator	To-Conne Co., Ltd.	SMA50-SP 1W	-	-	-
AT,CE	146212	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997828	2024/09/24	12
CE	175822	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/11	12
CE	145033	Coaxial Cable	Fujikura Shoji Co., LTD	5D2W	-	2024/04/10	12
CE	145336	Tape Measure	PROMART	SEN1935	-	-	-
CE	145542	LISN	Rohde & Schwarz	ENV216	100516	2024/02/06	12
CE	199786	Attenuator	JFW	50HF-006N	-	2024/06/14	12
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3 (RE,CE,ME,PE)	Ver 3.1.0546	-	-
CE,RE	235267	Test Receiver	Rohde & Schwarz	ESW44	103018	2024/03/05	12
RE	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2024/08/21	12
RE	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	B3208602403-176	2024/05/09	12
RE	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2024/08/21	12
RE	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2024/06/20	12
RE	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2024/06/20	12
RE	145527	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	193	2024/04/10	12
RE	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2024/03/05	12
RE	196945	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803414/2	2024/03/12	12
RE	199784	Attenuator	JFW	50HF-006N	-	2024/06/14	12
RE	207280	Tape Measure	ASKUL	-	-	-	-
RE	235639	DIGITAL MULTIMETER	HIOKI E.E. CORPORATION	DT4261	230313156	2024/05/29	12
RE	235735	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	12
RE	236212	Semi-Anechoic Chamber	TDK	SWAC-01(NSA)	1	2024/05/09	12
RE	236616	Semi-Anechoic Chamber	TDK	SWAC-01(SVSWR)	1	2024/06/04	12
RE	236686	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	787	2024/04/19	12
RE	236708	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-SMS117B-2m	47256-02-03	2024/05/09	12
RE	236710	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-7.0m	47256-03-01	2024/05/09	12
RE	236723	Coaxial Cable	Hayashi-Repic co., Ltd.	SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C	2000429/47753-1/47256-01-03/47256-01-01	2024/05/09	12
RE	236769	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000111	2024/04/19	12
RE	236966	Pre Amplifier	TSJ (Techno Science Japan)	MLA-9K01-L01	23050009	2024/06/14	12
RE	237784	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07795	2024/11/12	12
RE	239643	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S021	2024/08/20	12
RE	239786	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124+BBA9106	01895	2024/08/10	12

Test Equipment[2/2]

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	243209	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NFS13-1.0m	49190-01-01	2024/12/05	12
RE	243687	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-NMS079B-6.0m	49373-01-01	2024/12/05	12
RE	243689	Coaxial Cable	Huber+Suhner	GL310C(Hayashi-Repic)/SF106/SF106	49373-01-01/2000781/2001160	2024/12/17	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