

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC 1	WAC 1
Date	April 15, 2025	May 7, 2025
Temperature / Humidity	20 deg. C / 36 % RH	22 deg. C / 47 % RH
Engineer	Yuta Shiba	Takahiro Suzuki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 40 GHz)
Mode	Tx 11ac-40 5550 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.	5460.000	PK	47.33	32.85	-26.04	-	2.46	56.60	73.9	17.3	154	24	-
Hori.	11100.000	PK	55.96	37.27	-32.30	-	-9.54	51.39	73.9	22.5	157	145	-
Hori.	18500.000	PK	46.69	40.05	12.05	48.22	-9.54	41.03	73.9	32.8	136	220	-
Hori.	22200.000	PK	47.69	40.29	13.39	47.32	-9.54	44.51	73.9	29.3	134	135	-
Hori.	5460.000	AV	33.26	32.85	-26.04	-	2.46	42.53	53.9	11.3	154	24	VBW : 300 Hz
Hori.	11100.000	AV	39.98	37.27	-32.30	-	-9.54	35.41	53.9	18.4	157	145	VBW : 300 Hz
Hori.	18500.000	AV	33.48	40.05	12.05	48.22	-9.54	27.82	53.9	26.0	136	220	VBW : 300 Hz
Hori.	22200.000	AV	41.41	40.29	13.39	47.32	-9.54	38.23	53.9	15.6	134	135	VBW : 300 Hz
Vert.	5460.000	PK	47.94	32.85	-26.04	-	2.46	57.21	73.9	16.6	101	180	-
Vert.	11100.000	PK	54.61	37.27	-32.30	-	-9.54	50.04	73.9	23.8	153	227	-
Vert.	18500.000	PK	44.07	40.05	12.05	48.22	-9.54	38.41	73.9	35.4	144	320	-
Vert.	22200.000	PK	48.76	40.29	13.39	47.32	-9.54	45.58	73.9	28.3	134	317	-
Vert.	5460.000	AV	34.19	32.85	-26.04	-	2.46	43.46	53.9	10.4	101	180	VBW : 300 Hz
Vert.	11100.000	AV	41.59	37.27	-32.30	-	-9.54	37.02	53.9	16.8	153	227	VBW : 300 Hz
Vert.	18500.000	AV	33.07	40.05	12.05	48.22	-9.54	27.41	53.9	26.4	144	320	VBW : 300 Hz
Vert.	22200.000	AV	43.07	40.29	13.39	47.32	-9.54	39.89	53.9	14.0	134	317	VBW : 300 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 : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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.	5470.000	PK	49.30	32.92	-26.03	-	-	2.46	58.65	-36.58	-27.0	9.5	154	24	-
Hori.	16650.000	PK	47.44	39.48	-29.65	-	-	-9.54	47.73	-47.50	-27.0	20.5	150	0	-
Vert.	5470.000	PK	50.96	32.92	-26.03	-	-	2.46	60.31	-34.92	-27.0	7.9	101	180	-
Vert.	16650.000	PK	48.07	39.48	-29.65	-	-	-9.54	48.36	-46.87	-27.0	19.8	150	0	-

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

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

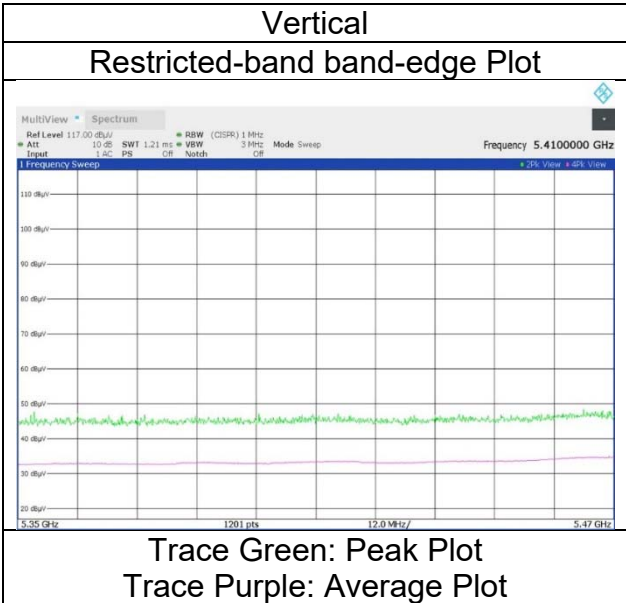
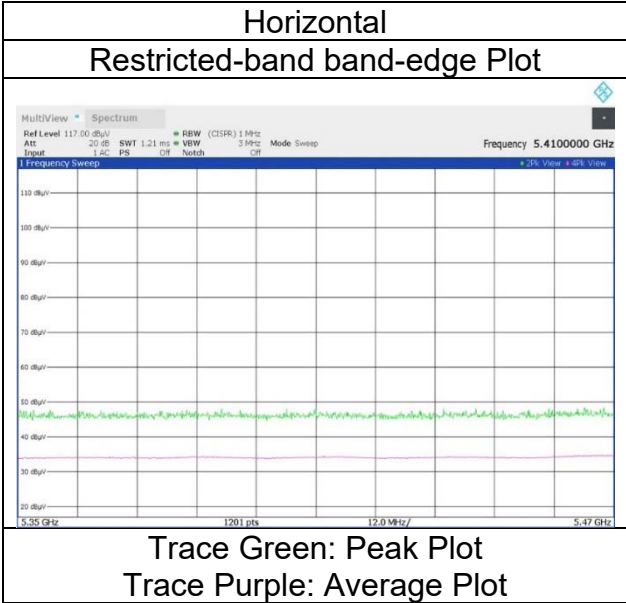
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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.
WAC 1
April 15, 2025
20 deg. C / 36 % RH
Yuta Shiba
Tx 11ac-40 5550 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	SAC 3	SAC 3
Date	February 22, 2025	March 25, 2025
Temperature / Humidity	21 deg. C / 25 % RH	24 deg. C / 38 % RH
Engineer	Masahide Ozaki	Yuta Shiba
	(1 GHz to 6.4 GHz)	(6.4 GHz to 40 GHz)
Mode	Tx 11ac-40 5590 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	PK	49.95	31.87	16.55	43.34	2.46	57.49	73.9	16.4	345	198	-
Hori.	11180.000	PK	62.31	37.19	9.13	42.83	-9.54	56.26	73.9	17.6	107	274	-
Hori.	18633.330	PK	45.12	40.09	13.60	48.19	-9.54	41.08	73.9	32.8	136	94	-
Hori.	22360.000	PK	47.88	40.27	15.14	47.32	-9.54	46.43	73.9	27.4	147	211	-
Hori.	5460.000	AV	36.09	31.87	16.55	43.34	2.46	43.63	53.9	10.2	345	198	VBW:300 Hz
Hori.	11180.000	AV	49.27	37.19	9.13	42.83	-9.54	43.22	53.9	10.6	107	274	VBW 300 Hz
Hori.	18633.330	AV	36.81	40.09	13.60	48.19	-9.54	32.77	53.9	21.1	136	94	VBW:300 Hz
Hori.	22360.000	AV	42.66	40.27	15.14	47.32	-9.54	41.21	53.9	12.6	147	211	VBW:300 Hz
Vert.	5460.000	PK	50.58	31.87	16.55	43.34	2.46	58.12	73.9	15.7	316	35	-
Vert.	11180.000	PK	59.96	37.19	9.13	42.83	-9.54	53.91	73.9	19.9	151	225	-
Vert.	18633.330	PK	42.95	40.09	13.60	48.19	-9.54	38.91	73.9	34.9	143	323	-
Vert.	22360.000	PK	46.36	40.27	15.14	47.32	-9.54	44.91	73.9	28.9	151	290	-
Vert.	5460.000	AV	36.08	31.87	16.55	43.34	2.46	43.62	53.9	10.2	316	35	VBW:300 Hz
Vert.	11180.000	AV	46.82	37.19	9.13	42.83	-9.54	40.77	53.9	13.1	151	225	VBW 300 Hz
Vert.	18633.330	AV	30.16	40.09	13.60	48.19	-9.54	26.12	53.9	27.7	143	323	VBW:300 Hz
Vert.	22360.000	AV	40.79	40.27	15.14	47.32	-9.54	39.34	53.9	14.5	151	290	VBW:300 Hz

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : 20log (3.98 [m] / 3.0 [m]) = 2.46 [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.	5470.000	PK	50.75	31.89	16.56	43.35	-	2.46	58.31	-36.92	-27.0	9.9	345	198	-
Hori.	16770.000	PK	50.71	39.55	11.74	40.52	-	-9.54	51.94	-43.29	-27.0	16.2	142	137	-
Vert.	5470.000	PK	50.87	31.89	16.56	43.35	-	2.46	58.43	-36.80	-27.0	9.8	316	35	-
Vert.	16770.000	PK	51.35	39.55	11.74	40.52	-	-9.54	52.58	-42.65	-27.0	15.6	155	211	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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).

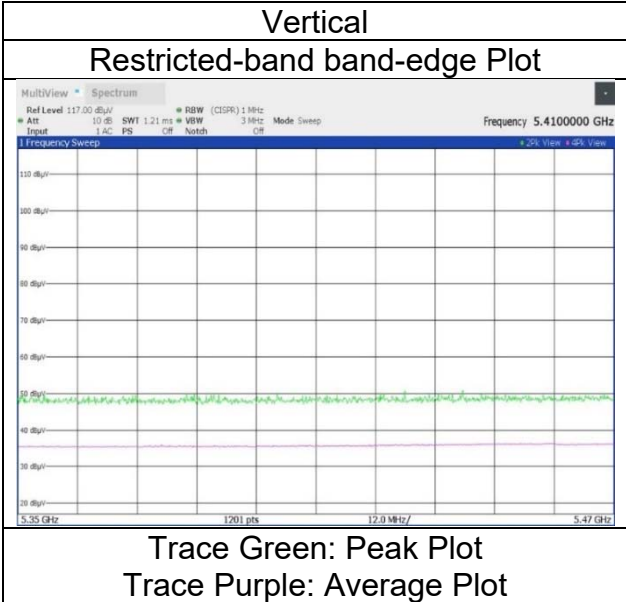
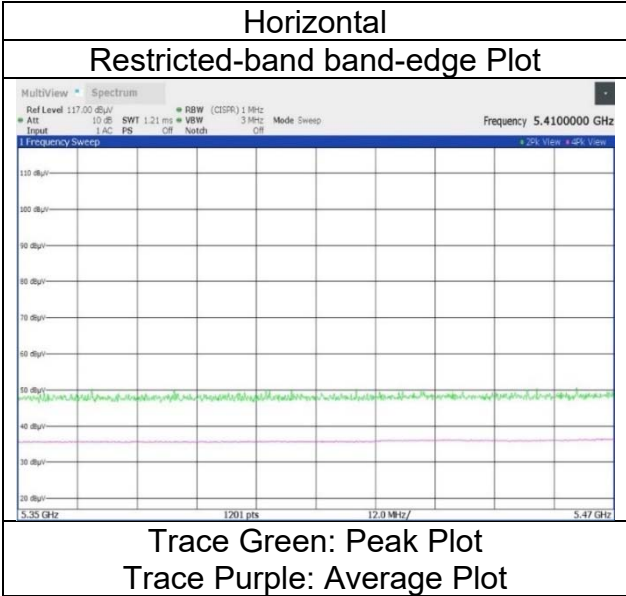
Distance Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
Tx 11ac-40 5590 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 SAC 3
Date February 22, 2025
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Masahide Ozaki
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5630 MHz

(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 Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	56.37	32.38	16.71	43.37	-	2.46	64.55	-30.68	-27.0	3.6	107	22	-
Vert.	5725.000	PK	55.02	32.38	16.71	43.37	-	2.46	63.20	-32.03	-27.0	5.0	100	62	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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).

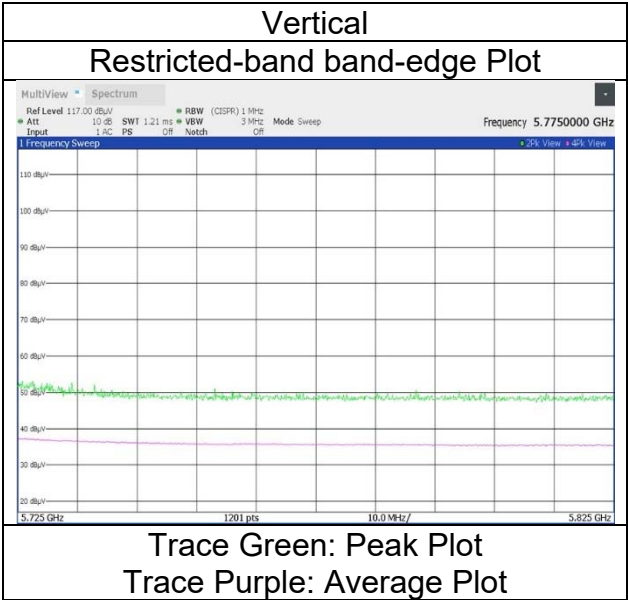
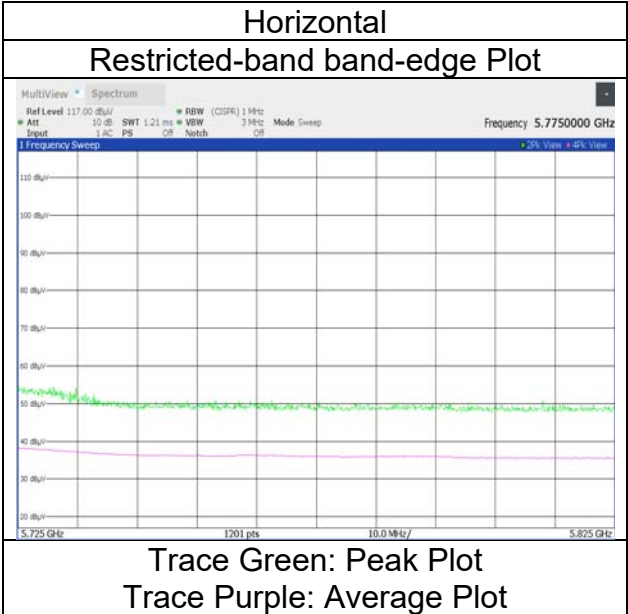
Distance Fac.: 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
Tx 11ac-40 5630 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	SAC 3	SAC 3	SAC 1	SAC 3	SAC 3
Date	February 22, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	21 deg. C / 25 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Masahide Ozaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(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	Detector	Reading	Ant.Fac.	Loss	Gain	Distance Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	11340.000	PK	54.21	37.59	9.31	42.70	-9.54	48.87	73.9	25.0	152	187	-	
Hori.	18900.000	PK	45.76	40.18	12.21	48.12	-9.54	40.49	73.9	33.4	157	104	-	
Hori.	22680.000	PK	47.76	40.21	13.53	47.25	-9.54	44.71	73.9	29.1	154	223	-	
Hori.	11340.000	AV	40.21	37.59	9.31	42.70	-9.54	34.87	53.9	19.0	152	187	VBW:300 Hz	
Hori.	18900.000	AV	38.48	40.18	12.21	48.12	-9.54	33.21	53.9	20.6	157	104	VBW:300 Hz	
Hori.	22680.000	AV	41.70	40.21	13.53	47.25	-9.54	38.65	53.9	15.2	154	223	VBW:300 Hz	
Vert.	11340.000	PK	53.24	37.59	9.31	42.70	-9.54	47.90	73.9	26.0	150	232	-	
Vert.	18900.000	PK	44.33	40.18	12.21	48.12	-9.54	39.06	73.9	34.8	145	298	-	
Vert.	22680.000	PK	47.66	40.21	13.53	47.25	-9.54	44.61	73.9	29.2	149	257	-	
Vert.	11340.000	AV	39.35	37.59	9.31	42.70	-9.54	34.01	53.9	19.8	150	232	VBW:300 Hz	
Vert.	18900.000	AV	34.14	40.18	12.21	48.12	-9.54	28.87	53.9	25.0	145	298	VBW:300 Hz	
Vert.	22680.000	AV	41.79	40.21	13.53	47.25	-9.54	38.74	53.9	15.1	149	257	VBW:300 Hz	

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : 20log (3.98 [m] / 3.0 [m]) = 2.46 [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 Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]		
Hori.	5725.000	PK	54.33	32.38	16.71	43.37	-	2.46	62.51	-32.72	-27.0	5.7	299	22	-	
Hori.	5733.535	PK	55.05	32.40	16.71	43.37	-	2.46	63.25	-31.98	-27.0	4.9	299	22	-	
Hori.	17010.000	PK	46.74	39.65	11.89	40.42	-	-9.54	48.32	-46.91	-27.0	19.9	150	0	-	
Vert.	5725.000	PK	53.66	32.38	16.71	43.37	-	2.46	61.84	-33.39	-27.0	6.3	129	141	-	
Vert.	5733.502	PK	55.15	32.40	16.71	43.37	-	2.46	63.35	-31.88	-27.0	4.8	129	141	-	
Vert.	17010.000	PK	46.89	39.65	11.89	40.42	-	-9.54	48.47	-46.76	-27.0	19.7	150	0	-	

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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).

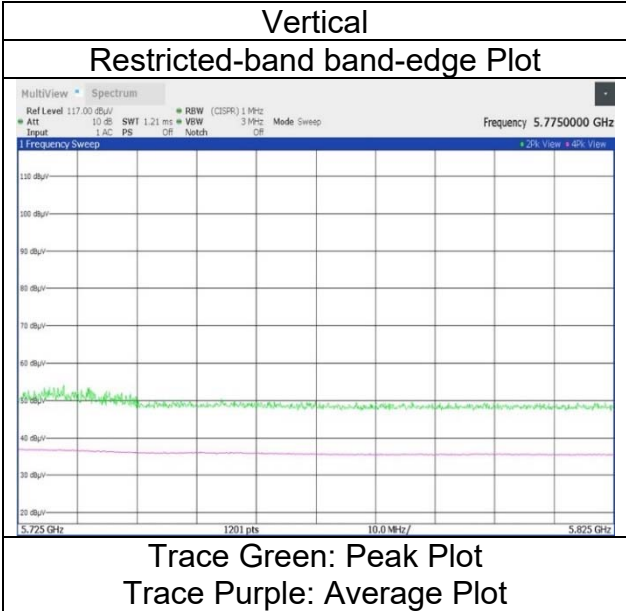
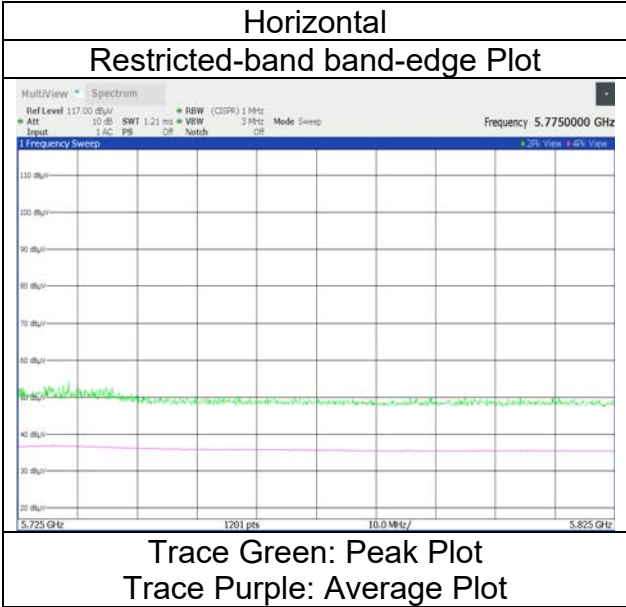
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
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	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 23, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	23 deg. C / 38 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(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	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.	11510.000	PK	51.24	37.85	9.37	42.58	-9.54	46.34	73.9	27.5	150	231	-
Hori.	19183.330	PK	46.16	40.31	12.32	48.00	-9.54	41.25	73.9	32.6	156	103	-
Hori.	23020.000	PK	46.12	40.15	13.63	47.10	-9.54	43.26	73.9	30.6	151	258	-
Hori.	11510.000	AV	36.47	37.85	9.37	42.58	-9.54	31.57	53.9	22.3	150	231	VBW:300 Hz
Hori.	19183.330	AV	39.87	40.31	12.32	48.00	-9.54	34.96	53.9	18.9	156	103	VBW:300 Hz
Hori.	23020.000	AV	39.30	40.15	13.63	47.10	-9.54	36.44	53.9	17.4	151	258	VBW:300 Hz
Vert.	11510.000	PK	50.63	37.85	9.37	42.58	-9.54	45.73	73.9	28.1	152	198	-
Vert.	19183.330	PK	44.95	40.31	12.32	48.00	-9.54	40.04	73.9	33.8	143	298	-
Vert.	23020.000	PK	46.00	40.15	13.63	47.10	-9.54	43.14	73.9	30.7	148	256	-
Vert.	11510.000	AV	35.68	37.85	9.37	42.58	-9.54	30.78	53.9	23.1	152	198	VBW:300 Hz
Vert.	19183.330	AV	35.62	40.31	12.32	48.00	-9.54	30.71	53.9	23.1	143	298	VBW:300 Hz
Vert.	23020.000	AV	39.92	40.15	13.63	47.10	-9.54	37.06	53.9	16.8	148	256	VBW:300 Hz

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : 20log (3.98 [m] / 3.0 [m]) = 2.46 [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.	5650.000	PK	49.55	32.13	16.66	43.37	-	2.46	57.43	-37.80	-27.0	10.8	120	18	-
Hori.	5700.000	PK	50.00	32.30	16.70	43.37	-	2.46	58.09	-37.14	10.0	47.1	120	18	-
Hori.	5720.000	PK	51.58	32.36	16.71	43.37	-	2.46	59.74	-35.49	15.6	51.0	120	18	-
Hori.	5725.000	PK	51.75	32.38	16.71	43.37	-	2.46	59.93	-35.30	27.0	62.3	120	18	-
Hori.	17265.000	PK	47.02	40.02	11.96	40.31	-	-9.54	49.15	-46.08	-27.0	19.0	150	0	-
Vert.	5650.000	PK	49.21	32.13	16.66	43.37	-	2.46	57.09	-38.14	-27.0	11.1	151	50	-
Vert.	5700.000	PK	50.00	32.30	16.70	43.37	-	2.46	58.09	-37.14	10.0	47.1	151	50	-
Vert.	5720.000	PK	52.75	32.36	16.71	43.37	-	2.46	60.91	-34.32	15.6	49.9	151	50	-
Vert.	5725.000	PK	52.93	32.38	16.71	43.37	-	2.46	61.11	-34.12	27.0	61.1	151	50	-
Vert.	17265.000	PK	36.96	40.02	11.96	40.31	-	-9.54	39.09	-56.14	-27.0	29.1	150	0	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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).

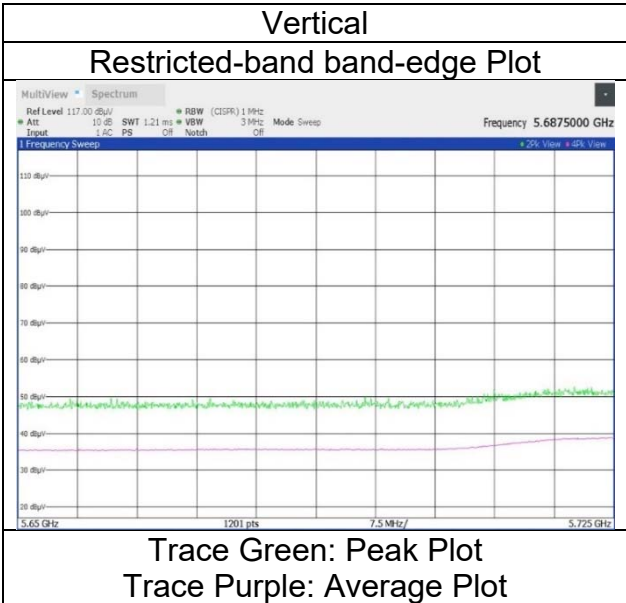
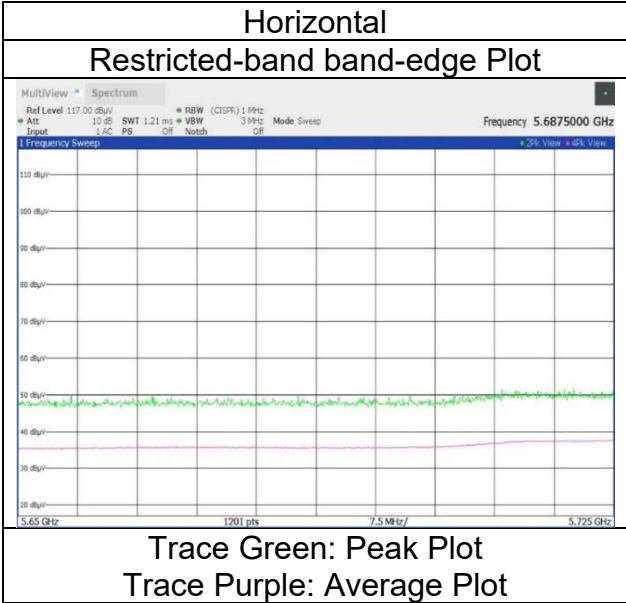
Distance Fac. : 1 GHz to 10 GHz : 20log (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Yohsuke Matsuzawa
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	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 23, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	23 deg. C / 38 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(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]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	11590.000	PK	57.39	37.91	9.42	42.56	-9.54	52.62	73.9	21.2	147	200	-	
Hori.	19316.670	PK	46.17	40.32	12.37	47.93	-9.54	41.39	73.9	32.5	155	104	-	
Hori.	11590.000	AV	43.11	37.91	9.42	42.56	-9.54	38.34	53.9	15.5	147	200	VBW:300 Hz	
Hori.	19316.670	AV	39.07	40.32	12.37	47.93	-9.54	34.29	53.9	19.6	155	104	VBW:300 Hz	
Vert.	11590.000	PK	54.92	37.91	9.42	42.56	-9.54	50.15	73.9	23.7	147	223	-	
Vert.	19316.670	PK	45.31	40.32	12.37	47.93	-9.54	40.53	73.9	33.3	147	298	-	
Vert.	11590.000	AV	40.60	37.91	9.42	42.56	-9.54	35.83	53.9	18.0	147	223	VBW:300 Hz	
Vert.	19316.670	AV	36.04	40.32	12.37	47.93	-9.54	31.26	53.9	22.6	147	298	VBW:300 Hz	

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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.	5850.000	PK	60.31	32.76	16.79	43.37	-	2.46	68.95	-26.28	27.0	53.2	153	21	-	
Hori.	5855.000	PK	58.32	32.77	16.79	43.37	-	2.46	66.97	-28.26	15.6	43.8	153	21	-	
Hori.	5875.000	PK	54.73	32.81	16.80	43.37	-	2.46	63.43	-31.80	10.0	41.8	153	21	-	
Hori.	5925.000	PK	49.78	32.92	16.83	43.36	-	2.46	58.63	-36.60	-27.0	9.6	153	21	-	
Hori.	17385.000	PK	48.38	40.22	11.98	40.26	-	-9.54	50.78	-44.45	-27.0	17.4	151	196	-	
Hori.	23180.000	PK	44.75	40.13	13.67	46.98	-	-9.54	42.03	-53.20	-27.0	26.2	148	221	-	
Vert.	5850.000	PK	58.62	32.76	16.79	43.37	-	2.46	67.26	-27.97	27.0	54.9	147	47	-	
Vert.	5855.000	PK	57.91	32.77	16.79	43.37	-	2.46	66.56	-28.67	15.6	44.2	147	47	-	
Vert.	5875.000	PK	51.26	32.81	16.80	43.37	-	2.46	59.96	-35.27	10.0	45.2	147	47	-	
Vert.	5925.000	PK	49.56	32.92	16.83	43.36	-	2.46	58.41	-36.82	-27.0	9.8	147	47	-	
Vert.	17385.000	PK	48.12	40.22	11.98	40.26	-	-9.54	50.52	-44.71	-27.0	17.7	150	232	-	
Vert.	23180.000	PK	46.06	40.13	13.67	46.98	-	-9.54	43.34	-51.89	-27.0	24.8	146	256	-	

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

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

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

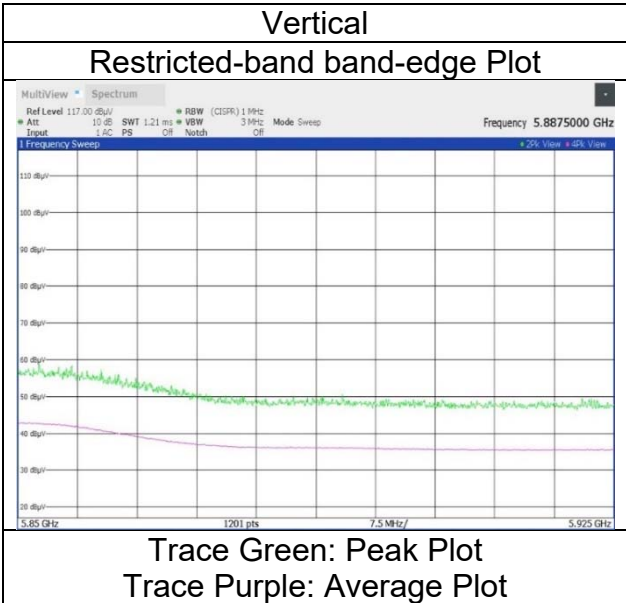
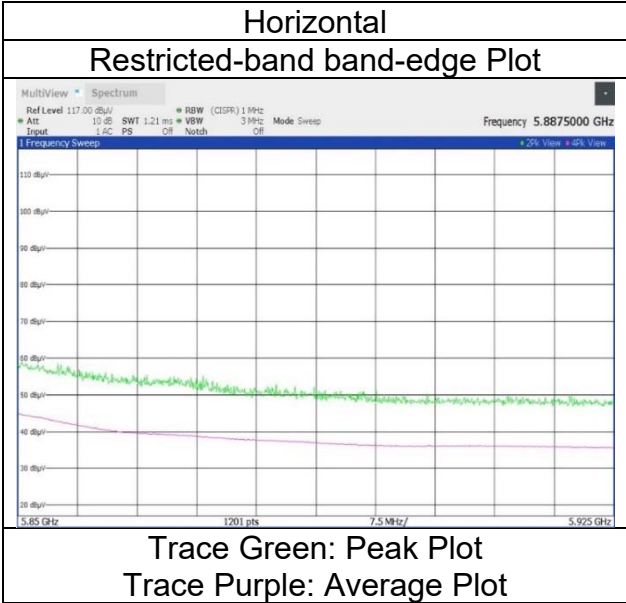
Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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.
SAC 3
February 22, 2025
21 deg. C / 25 % 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	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 21, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 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 Fac.	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	5150.000	PK	50.84	31.88	16.37	42.99	2.46	58.56	73.9	15.3	100	66	-
Hori.	15630.000	PK	47.55	39.73	-30.21	-	-9.54	47.53	73.9	26.3	150	0	-
Hori.	20840.000	PK	49.05	40.10	12.91	47.03	-9.54	45.49	73.9	28.4	160	220	-
Hori.	5150.000	AV	37.09	31.88	16.37	42.99	2.46	44.81	53.9	9.0	100	66	VBW:1 kHz
Hori.	15630.000	AV	33.98	39.73	-30.21	-	-9.54	33.96	53.9	19.9	150	0	VBW:1 kHz
Hori.	20840.000	AV	45.23	40.10	12.91	47.03	-9.54	41.67	53.9	12.2	160	220	VBW:1 kHz
Vert.	5150.000	PK	51.10	31.88	16.37	42.99	2.46	58.82	73.9	15.0	139	142	-
Vert.	15630.000	PK	47.42	39.73	-30.21	-	-9.54	47.40	73.9	26.5	150	0	-
Vert.	20840.000	PK	49.64	40.10	12.91	47.03	-9.54	46.08	73.9	27.8	145	314	-
Vert.	5150.000	AV	37.11	31.88	16.37	42.99	2.46	44.83	53.9	9.0	139	142	VBW:1 kHz
Vert.	15630.000	AV	33.91	39.73	-30.21	-	-9.54	33.89	53.9	20.0	150	0	VBW:1 kHz
Vert.	20840.000	AV	45.79	40.10	12.91	47.03	-9.54	42.23	53.9	11.6	145	314	VBW:1 kHz

(WAC 1): 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.

(SAC 3): Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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: $20\log(3.98 [m] / 3.0 [m]) = 2.46 [dB]$

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 Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	10420.000	PK	47.98	36.31	-32.98	-	-	-9.54	41.77	-53.46	-27.0	26.4	136	296	-
Vert.	10420.000	PK	47.68	36.31	-32.98	-	-	-9.54	41.47	-53.76	-27.0	26.7	174	256	-

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

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

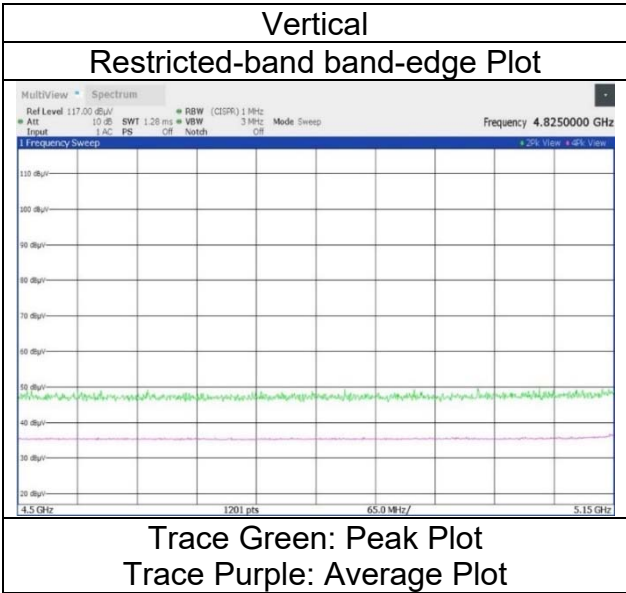
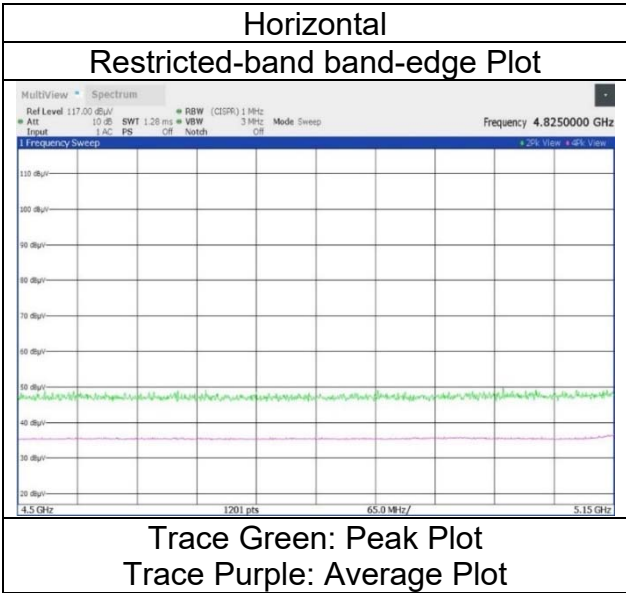
Distance Fac.: 1 GHz to 10 GHz: $20\log(3.98 [m] / 3.0 [m]) = 2.46 [dB]$

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.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
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	SAC 3	SAC 3	SAC 3	SAC 3	SAC 3
Date	February 21, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	22 deg. C / 30 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Yasumasa Owaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5290 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 Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	5350.000	PK	50.18	31.60	16.49	43.21	2.46	57.52	73.9	16.3	124	79	-	
Hori.	15870.000	PK	47.06	40.00	-30.23	-	-9.54	47.29	73.9	26.6	150	0	-	
Hori.	21160.000	PK	48.34	40.07	13.00	47.06	-9.54	44.81	73.9	29.0	161	217	-	
Hori.	5350.000	AV	36.75	31.60	16.49	43.21	2.46	44.09	53.9	9.8	124	79	VBW:1 kHz	
Hori.	15870.000	AV	33.28	40.00	-30.23	-	-9.54	33.51	53.9	20.3	150	0	VBW:1 kHz	
Hori.	21160.000	AV	43.71	40.07	13.00	47.06	-9.54	40.18	53.9	13.7	161	217	VBW:1 kHz	
Vert.	5350.000	PK	50.28	31.60	16.49	43.21	2.46	57.62	73.9	16.2	150	143	-	
Vert.	15870.000	PK	47.16	40.00	-30.23	-	-9.54	47.39	73.9	26.5	150	0	-	
Vert.	21160.000	PK	49.81	40.07	13.00	47.06	-9.54	46.28	73.9	27.6	143	297	-	
Vert.	5350.000	AV	36.79	31.60	16.49	43.21	2.46	44.13	53.9	9.7	150	143	VBW:1 kHz	
Vert.	15870.000	AV	33.35	40.00	-30.23	-	-9.54	33.58	53.9	20.3	150	0	VBW:1 kHz	
Vert.	21160.000	AV	46.33	40.07	13.00	47.06	-9.54	42.80	53.9	11.1	143	297	VBW:1 kHz	

(WAC 1) : 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.

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [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 Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	10580.000	PK	47.81	36.79	-32.80	-	-	-9.54	42.26	-52.97	-27.0	25.9	151	300	-
Vert.	10580.000	PK	49.45	36.79	-32.80	-	-	-9.54	43.90	-51.33	-27.0	24.3	158	255	-

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 (ERP) [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).

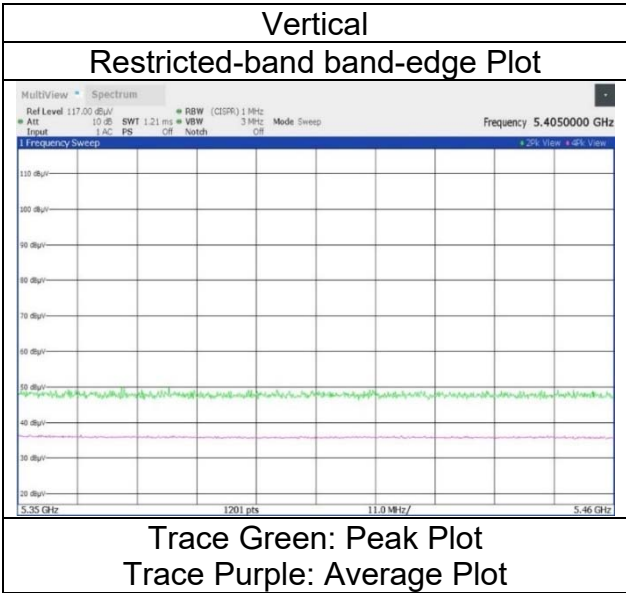
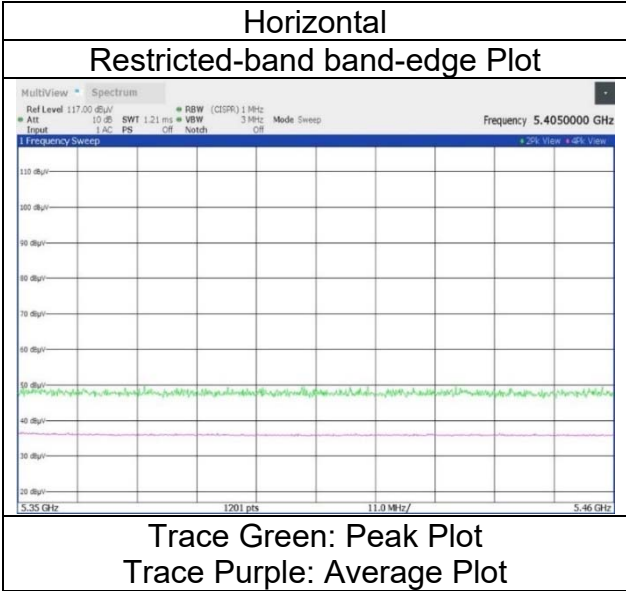
Distance Fac.: 1 GHz to 10 GHz : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [dB]

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.
SAC 3
February 21, 2025
22 deg. C / 30 % RH
Yasumasa Owaki
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.	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Semi Anechoic Chamber	SAC 3	February 22, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Date	February 22, 2025	21 deg. C / 25 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Temperature / Humidity	21 deg. C / 25 % RH	Masahide Ozaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
Engineer	Masahide Ozaki	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 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 Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	5460.000	PK	50.25	31.87	16.55	43.34	2.46	57.79	73.9	16.1	378	209	-	
Hori.	11060.000	PK	49.41	37.46	-32.36	-	-9.54	44.97	73.9	28.9	150	70	-	
Hori.	18433.330	PK	46.11	40.06	12.03	48.20	-9.54	40.46	73.9	33.4	157	104	-	
Hori.	22120.000	PK	48.50	40.27	13.37	47.32	-9.54	45.28	73.9	28.6	152	216	-	
Hori.	5460.000	AV	35.92	31.87	16.55	43.34	2.46	43.46	53.9	10.4	378	209	-	
Hori.	11060.000	AV	37.28	37.46	-32.36	-	-9.54	32.84	53.9	21.0	150	70	VBW:1 kHz	
Hori.	18433.330	AV	39.37	40.06	12.03	48.20	-9.54	33.72	53.9	20.1	157	104	VBW:1 kHz	
Hori.	22120.000	AV	43.52	40.27	13.37	47.32	-9.54	40.30	53.9	13.6	152	216	VBW:1 kHz	
Vert.	5460.000	PK	50.80	31.87	16.55	43.34	2.46	58.34	73.9	15.5	129	142	-	
Vert.	11060.000	PK	49.83	37.46	-32.36	-	-9.54	45.39	73.9	28.5	165	57	-	
Vert.	18433.330	PK	44.58	40.06	12.03	48.20	-9.54	38.93	73.9	34.9	124	299	-	
Vert.	22120.000	PK	49.45	40.27	13.37	47.32	-9.54	46.23	73.9	27.6	136	317	-	
Vert.	5460.000	AV	36.33	31.87	16.55	43.34	2.46	43.87	53.9	10.0	129	142	-	
Vert.	11060.000	AV	37.76	37.46	-32.36	-	-9.54	33.32	53.9	20.5	165	57	VBW:1 kHz	
Vert.	18433.330	AV	34.59	40.06	12.03	48.20	-9.54	28.94	53.9	24.9	124	299	VBW:1 kHz	
Vert.	22120.000	AV	44.14	40.27	13.37	47.32	-9.54	40.92	53.9	12.9	136	317	VBW:1 kHz	

(WAC 1): 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.

(SAC 3): Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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: $20\log(3.98[\text{m}]/3.0[\text{m}]) = 2.46[\text{dB}]$

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5470.000	PK	51.06	31.89	16.56	43.35	-	2.46	58.62	-36.61	-27.0	9.6	378	209	-
Hori.	16590.000	PK	48.75	39.77	-29.77	-	-	-9.54	49.21	-46.02	-27.0	19.0	150	0	-
Vert.	5470.000	PK	51.24	31.89	16.56	43.35	-	2.46	58.80	-36.43	-27.0	9.4	129	142	-
Vert.	16590.000	PK	47.88	39.77	-29.77	-	-	-9.54	48.34	-46.89	-27.0	19.8	150	0	-

(WAC 1): 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.

(SAC 3): Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

Result (ERP) [dBm] = $10 \cdot \log((10^{\frac{1}{10}}(\text{Result [dBuV/m]} / 20))^2 \cdot 10^{-6} \cdot \text{Distance} : 3[\text{m}]^2 / 30 \cdot 10^{-3})$

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

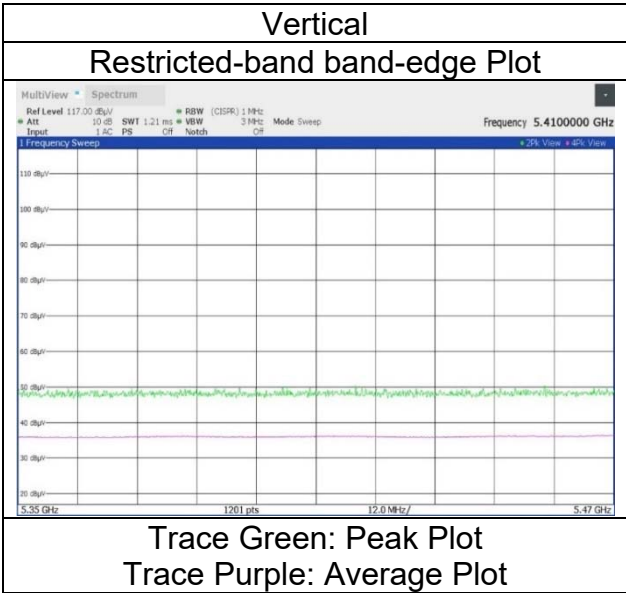
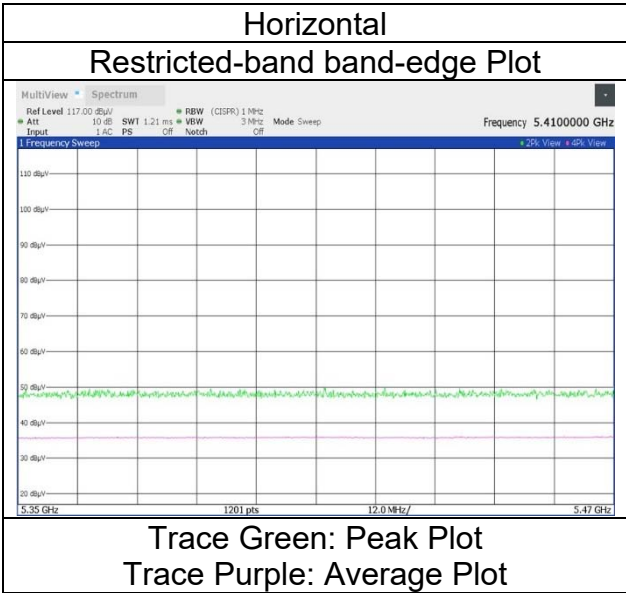
Distance Fac.: 1 GHz to 10 GHz: $20\log(3.98[\text{m}]/3.0[\text{m}]) = 2.46[\text{dB}]$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
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	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Date	February 22, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	21 deg. C / 25 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Masahide Ozaki	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5610 MHz				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance Fac.	Result	Limit	Margin	Height	Angle	Remark	
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]		
Hori.	11220.000	PK	49.63	37.61	-32.14	-	-9.54	45.56	73.9	28.3	100	256	-	
Hori.	18700.000	PK	46.36	40.08	12.13	48.17	-9.54	40.86	73.9	33.0	157	103	-	
Hori.	22440.000	PK	47.75	40.26	13.46	47.32	-9.54	44.61	73.9	29.2	151	257	-	
Hori.	11220.000	AV	38.05	37.61	-32.14	-	-9.54	33.98	53.9	19.9	100	256	VBW:1 kHz	
Hori.	18700.000	AV	40.09	40.08	12.13	48.17	-9.54	34.59	53.9	19.3	157	103	VBW:1 kHz	
Hori.	22440.000	AV	43.11	40.26	13.46	47.32	-9.54	39.97	53.9	13.9	151	257	VBW:1 kHz	
Vert.	11220.000	PK	49.56	37.61	-32.14	-	-9.54	45.49	73.9	28.4	174	224	-	
Vert.	18700.000	PK	46.35	40.08	12.13	48.17	-9.54	40.85	73.9	33.0	136	298	-	
Vert.	22440.000	PK	48.20	40.26	13.46	47.32	-9.54	45.06	73.9	28.8	155	256	-	
Vert.	11220.000	AV	37.24	37.61	-32.14	-	-9.54	33.17	53.9	20.7	174	224	VBW:1 kHz	
Vert.	18700.000	AV	37.79	40.08	12.13	48.17	-9.54	32.29	53.9	21.6	136	298	VBW:1 kHz	
Vert.	22440.000	AV	43.10	40.26	13.46	47.32	-9.54	39.96	53.9	13.9	155	256	VBW:1 kHz	

(WAC 1) : 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.

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20lg (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 Fac.	Distance Fac.	Result	Result (EIRP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5725.000	PK	50.04	32.38	16.71	43.37	-	2.46	58.22	-37.01	-27.0	10.0	116	11	-
Hori.	16830.000	PK	47.31	39.47	-29.32	-	-	-9.54	47.92	-47.31	-27.0	20.3	150	0	-
Vert.	5725.000	PK	50.24	32.38	16.71	43.37	-	2.46	58.42	-36.81	-27.0	9.8	100	141	-
Vert.	16830.000	PK	47.53	39.47	-29.32	-	-	-9.54	48.14	-47.09	-27.0	20.0	150	0	-

(WAC 1) : 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.

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

Result (ERP) [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).

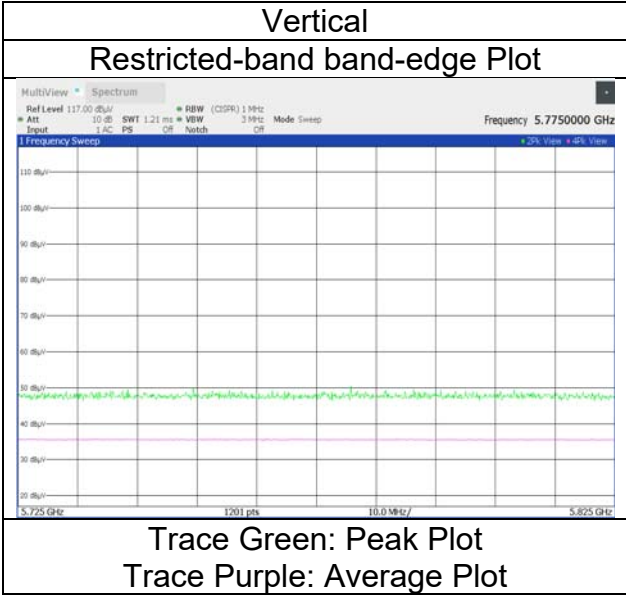
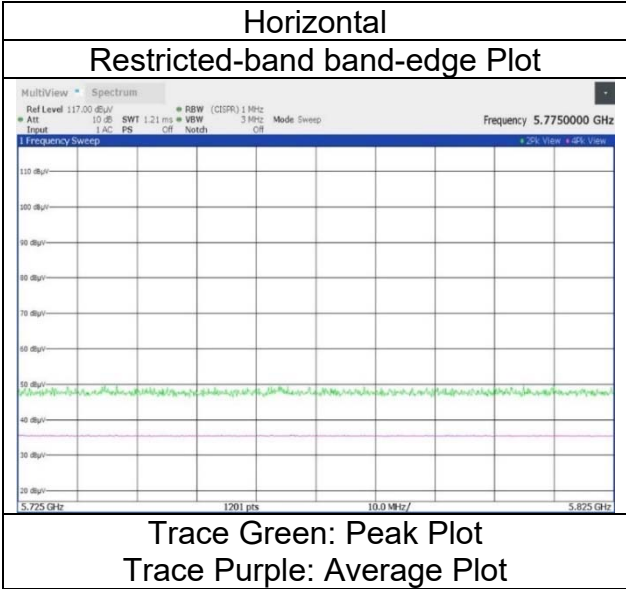
Distance Fac.: 1 GHz to 10 GHz : 20lg (3.98 [m] / 3.0 [m]) = 2.46 [dB]

10 GHz to 40 GHz : 20lg (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.
SAC 3
February 22, 2025
21 deg. C / 25 % RH
Masahide Ozaki
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	SAC 3	SAC 3	WAC 1	SAC 3	SAC 3
Date	February 25, 2025	February 27, 2025	February 28, 2025	February 19, 2025	December 8, 2024
Temperature / Humidity	21 deg. C / 30 % RH	24deg. C / 23 % RH	23 deg. C / 23 % RH	20 deg. C / 30 % RH	20 deg. C / 30 % RH
Engineer	Takayuki Kobayashii	Miku Ikudome	Miku Ikudome	Yasumasa Owaki	Yasumasa Owaki
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-80 5775 MHz				

(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.	11550.000	PK	48.98	38.15	-31.78	-	-9.54	45.81	73.9	28.0	156	256	-
Hori.	19250.000	PK	47.20	40.36	12.35	47.97	-9.54	42.40	73.9	31.5	157	104	-
Hori.	23100.000	PK	46.37	40.14	13.65	47.04	-9.54	43.58	73.9	30.3	150	257	-
Hori.	11550.000	AV	38.51	38.15	-31.78	-	-9.54	35.34	53.9	18.5	156	256	VBW:1 kHz
Hori.	19250.000	AV	41.14	40.36	12.35	47.97	-9.54	36.34	53.9	17.5	157	104	VBW:1 kHz
Hori.	23100.000	AV	39.94	40.14	13.65	47.04	-9.54	37.15	53.9	16.7	150	257	VBW:1 kHz
Vert.	11550.000	PK	48.62	38.15	-31.78	-	-9.54	45.45	73.9	28.4	148	318	-
Vert.	19250.000	PK	46.27	40.36	12.35	47.97	-9.54	41.47	73.9	32.4	148	297	-
Vert.	23100.000	PK	46.21	40.14	13.65	47.04	-9.54	43.42	73.9	30.4	153	257	-
Vert.	11550.000	AV	35.84	38.15	-31.78	-	-9.54	32.67	53.9	21.2	148	318	VBW:1 kHz
Vert.	19250.000	AV	39.46	40.36	12.35	47.97	-9.54	34.66	53.9	19.2	148	297	VBW:1 kHz
Vert.	23100.000	AV	40.19	40.14	13.65	47.04	-9.54	37.40	53.9	16.5	153	257	VBW:1 kHz

(WAC 1) : 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.

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + 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 : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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 (ERP)	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	[cm]	[deg.]	
Hori.	5650.000	PK	49.92	32.13	16.66	43.37	-	2.46	57.80	-37.43	-27.0	10.4	143	335	-
Hori.	5700.000	PK	50.40	32.30	16.70	43.37	-	2.46	58.49	-36.74	10.0	46.7	143	335	-
Hori.	5720.000	PK	52.13	32.36	16.71	43.37	-	2.46	60.29	-34.94	15.6	50.5	143	335	-
Hori.	5725.000	PK	54.13	32.38	16.71	43.37	-	2.46	62.31	-32.92	27.0	59.9	143	335	-
Hori.	5850.000	PK	49.85	32.76	16.79	43.37	-	2.46	58.49	-36.74	27.0	63.7	143	335	-
Hori.	5855.000	PK	49.90	32.77	16.79	43.37	-	2.46	58.55	-36.68	15.6	52.2	143	335	-
Hori.	5875.000	PK	49.54	32.81	16.80	43.37	-	2.46	58.24	-36.99	10.0	46.9	143	335	-
Hori.	5925.000	PK	49.99	32.92	16.83	43.36	-	2.46	58.84	-36.39	-27.0	9.3	143	335	-
Hori.	17325.000	PK	47.29	40.31	-28.98	-	-	-9.54	49.08	-46.15	-27.0	19.1	150	0	-
Vert.	5650.000	PK	49.25	32.13	16.66	43.37	-	2.46	57.13	-38.10	-27.0	11.1	153	56	-
Vert.	5700.000	PK	49.67	32.30	16.70	43.37	-	2.46	57.76	-37.47	10.0	47.4	153	56	-
Vert.	5720.000	PK	50.43	32.36	16.71	43.37	-	2.46	58.59	-36.64	15.6	52.2	153	56	-
Vert.	5725.000	PK	51.10	32.38	16.71	43.37	-	2.46	59.28	-35.95	27.0	62.9	153	56	-
Vert.	5850.000	PK	50.11	32.76	16.79	43.37	-	2.46	58.75	-36.48	27.0	63.4	153	56	-
Vert.	5855.000	PK	49.49	32.77	16.79	43.37	-	2.46	58.14	-37.09	15.6	52.6	153	56	-
Vert.	5875.000	PK	49.24	32.81	16.80	43.37	-	2.46	57.94	-37.29	10.0	47.2	153	56	-
Vert.	5925.000	PK	49.98	32.92	16.83	43.36	-	2.46	58.83	-36.40	-27.0	9.4	153	56	-
Vert.	17325.000	PK	47.49	40.31	-28.98	-	-	-9.54	49.28	-45.95	-27.0	18.9	150	0	-

(WAC 1) : 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.

(SAC 3) : Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

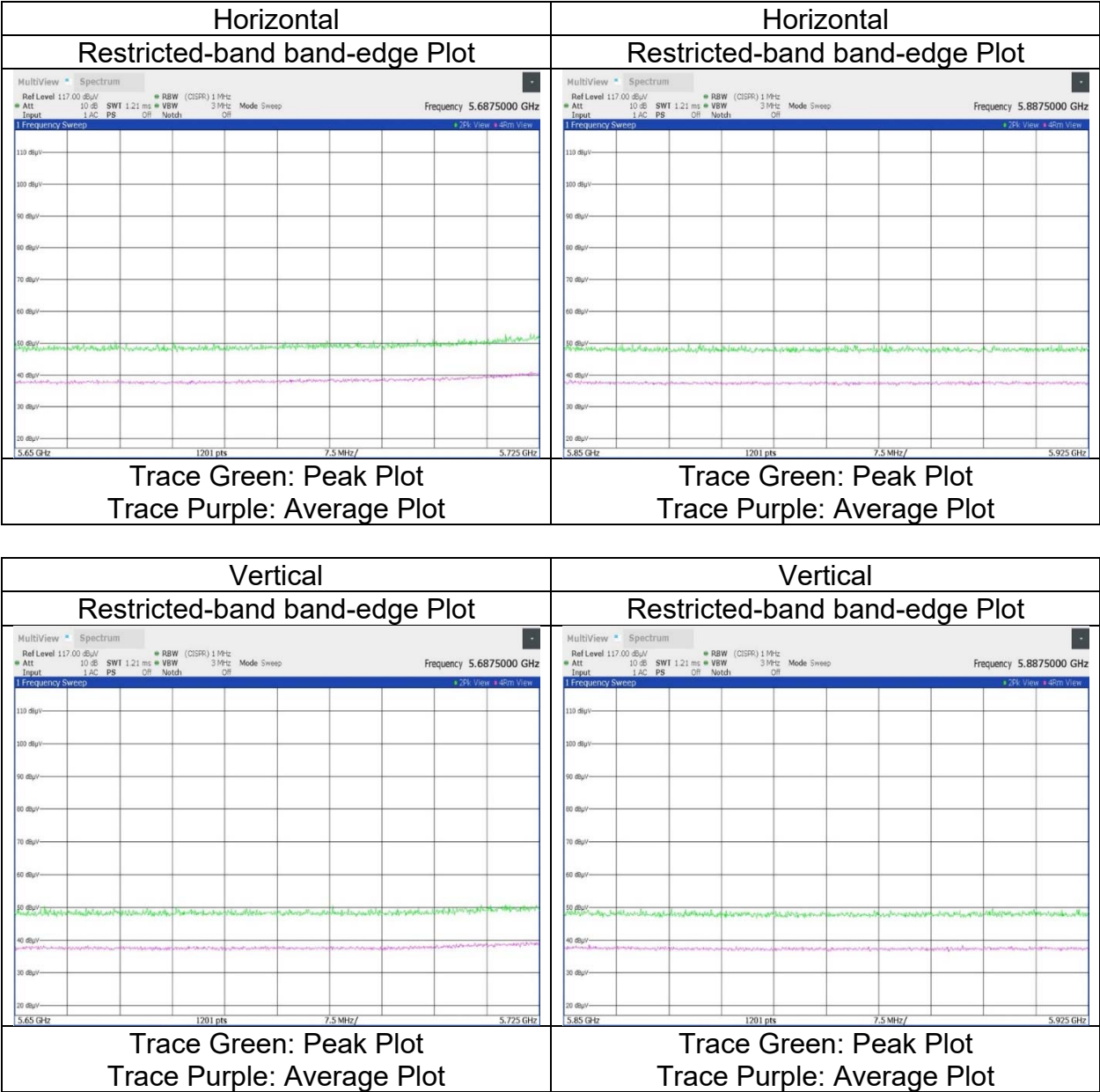
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance Fac. : 1 GHz to 10 GHz : $20\log(3.98[m]/3.0[m]) = 2.46[dB]$

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	SAC 3
Date	February 22, 2025
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Masahide Ozaki
Mode	Tx 11ac-80 5775 MHz



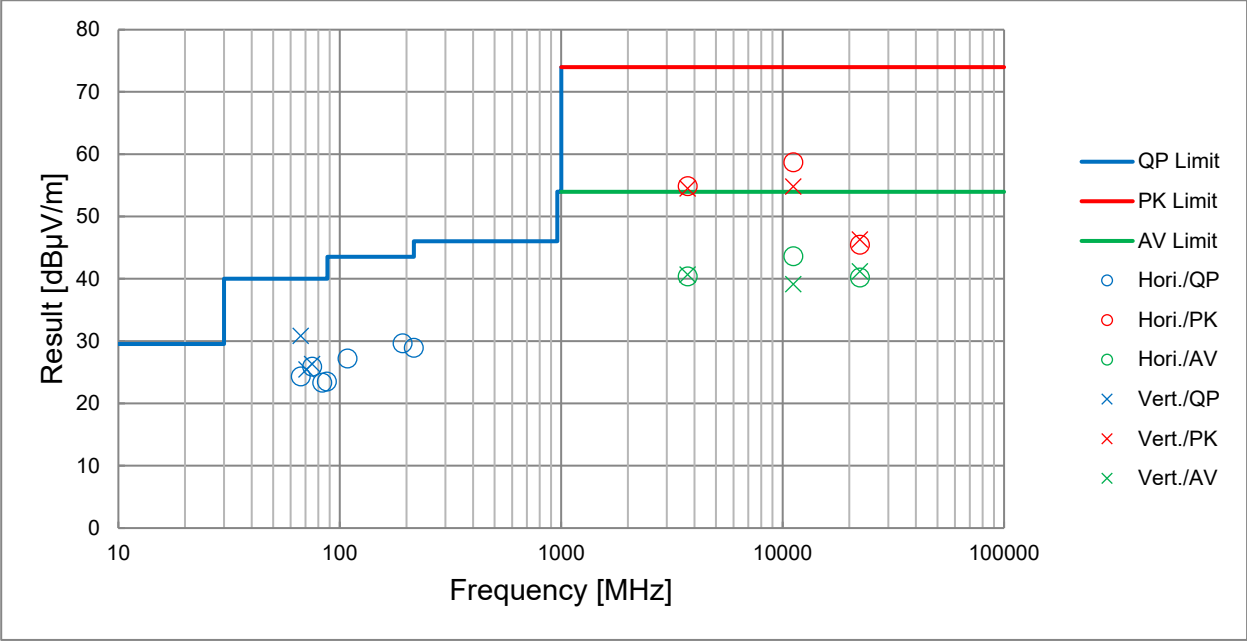
* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

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

Shonan EMC Lab.

Test place	SAC 3	SAC 3	SAC 3	SAC 3
Semi Anechoic Chamber				
Date	March 12, 2025	February 26, 2025	December 16, 2024	December 8, 2024
Temperature / Humidity	22 deg. C / 28 % RH	24 deg. C / 24 % RH	23 deg. C / 24 % RH	20 deg. C / 30 % RH
Engineer	Yuta Shiba	Miu Ikudome	Takayuki Kobayashi	Yasumasa Owaki
	(30 MHz to 1000 MHz)	(1 GHz to 10 GHz)	(10 GHz to 26.5 GHz)	(26.5 GHz to 40 GHz)
Mode	Tx 11ac-20 5580 MHz			



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

Conducted Spurious Emission

Test place

Shonan EMC Lab. No.5 Shielded Room

Date

March 5, 2025

Temperature / Humidity

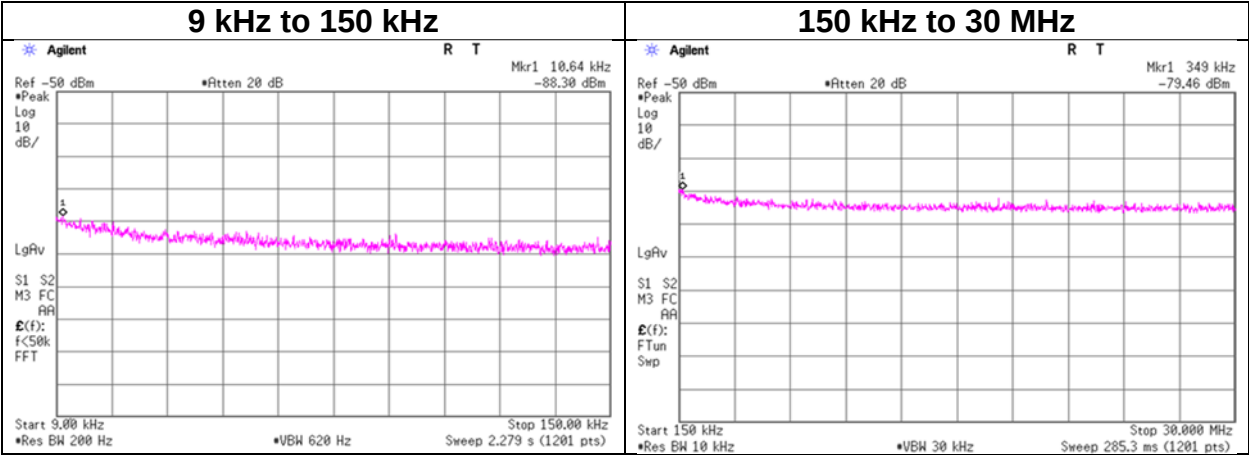
23 deg. C / 47 % RH

Engineer

Takayuki Kobayashi

Mode

Tx 11ac-20 5580 MHz



FREQ	Reading	Cable	Attenuator	Antenna	N	EIRP	Distance	Ground	E (field	Limit	Margin
[kHz]	[dBm]	Loss	Loss	Gain	Number of	[dBm]	[m]	bounce	Strength)	[dBuV/m]	[dB]
		[dB]	[dB]		output)			[dB]	[dBuV/m]		
10.3	-88.30	0.24	9.82	2.10	1	-76.15	300.00	6.00	-14.89	47.30	62.19
349.0	-79.46	0.24	9.82	2.10	1	-67.31	300.00	6.00	-6.05	16.70	22.75

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

APPENDIX 2: Test Instruments

Test Equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	160495	Attenuator	Weinschel Corp.	54A-20	86752	2024/12/03	12
AT	145113	Digital Multimeter	Agilent Technologies	U1251A	TW46350095	2024/09/24	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	150461	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186392	2024/06/11	12
AT	191847	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/12	12
AT	160494	Attenuator	Weinschel Corp.	54A-10	83420	2024/12/03	12
AT	239653	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	2001221/2	2024/08/20	12
CE	199786	Attenuator	JFW	50HF-006N	-	2024/06/14	12
CE	145036	Attenuator Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-271(RF Selector)	2024/04/01	12
CE	145538	LISN	Rohde & Schwarz	ENV216	100511	2025/02/01	12
CE	145542	LISN	Rohde & Schwarz	ENV216	100516	2025/02/01	12
CE	145745	Terminator	TME	CT-01 BP	-	2024/11/21	12
CE,RE	146210	Digital Hitester	HIOKI E. E. CORPORATION	3805-50	80997823	2024/09/24	12
CE,RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0546	-	-
CE,RE	146432	Tape Measure	TAJIMA	GL19-55	-	-	-
CE,RE	150463	Test Receiver	Rohde & Schwarz	ESW44	101581	2024/08/06	12
CE,RE	191840	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/12	12
RE	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2024/10/10	12
RE	248303	Attenuator	JFW	50HFFA-006-2/18N	-	2024/05/06	12
RE	145023	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	BBA9106	91032666	2024/05/10	12
RE	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2024/08/21	12
RE	156380	Coaxial Cable	Huber+Suhner	SUCOFLEX 104 E	SN MY 13406/4E	-	-
RE	178572	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800288 /4A	2025/02/28	12
RE	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2024/03/05	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	236869	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	200084/4A	2024/12/05	12
RE	239643	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S021	2024/08/20	12
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
RE	245175	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-2.0m	49334-01-02	2025/02/18	12
RE	249679	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NMS13-0.5m	50736-01-01	2024/06/12	12
RE	255496	Coaxial Cable	Hayashi-Repic co., Ltd.	SFS13-13A26-SMS13-1.0m	51221-01-01	2024/12/05	12
RE	255497	Coaxial Cable	Hayashi-Repic co., Ltd.	SFS13-13A26-NMS13-1.0m	51221-02-01	2024/12/05	12
RE	253628	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	5D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	2024/10/16	12

Test Equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	235639	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4261	230313156	2024/05/29	12
RE	145301	Highpass Filter	Micro-Tronics	HPM50111	51	2024/10/10	12
RE	145377	Highpass Filter	Micro-Tronics	HPM50112	28	2024/10/10	12
RE	145501	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-739	2024/03/20	12
RE	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2024/06/20	12
RE	194685	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	711	2024/03/20	12
RE	236686	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	787	2024/04/19	12
RE	236769	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000111	2025/04/01	12
RE	194684	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	695	2025/3/24	12
RE	145529	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	196	2024/05/10	12
RE	145005	Pre Amplifier	Toyo Corporation	TPA0118-36	2046104	2025/02/25	12
RE	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2024/08/21	12
RE	145126	Pre Amplifier	SONOMA	310N	290213	2025/02/19	12
RE	145127	Pre Amplifier	Toyo Corporation	TPA0118-36	2072554	2024/05/08	12
RE	237784	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07795	2024/11/12	12
RE	145565	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	2024/04/03	12
RE	145566	Semi-Anechoic Chamber	TDK	SAEC-03(SVSWR)	3	2024/05/23	12
RE	236616	Semi-Anechoic Chamber	TDK	SWAC-01(SVSWR)	1	2024/06/04	12
RE	207280	Tape Measure	ASKUL	-	-	-	-
RE	213530	Test Receiver	Rohde & Schwarz	ESW44	103068	2025/02/12	12
RE	235267	Test Receiver	Rohde & Schwarz	ESW44	103018	2024/03/05	12
RE	235735	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	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