

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	3	3	3	3
Date	June 12, 2022	June 16, 2022	June 17, 2022	June 17, 2022
Temperature / Humidity	24 deg.C, 55 %RH	25 deg.C, 41 %RH	23 deg.C, 50 %RH	24 deg.C, 45 %RH
Engineer	Shiro Kobayashi	Kouki Yamada	Hiromasa Sato	Kouki Yamada
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 SDM 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7660.000	PK	52.53	37.26	8.85	43.48	2.26	57.42	73.9	16.4	340	5	-
Hori.	11490.000	PK	51.79	38.19	10.43	42.44	-9.54	48.43	73.9	25.4	180	34	-
Hori.	22980.000	PK	46.48	40.19	15.17	47.17	-9.54	45.13	73.9	28.7	161	262	-
Hori.	7660.000	AV	46.60	37.26	8.85	43.48	2.26	51.49	53.9	2.4	340	5	VBW: 620 Hz, *1)
Hori.	11490.000	AV	41.89	38.19	10.43	42.44	-9.54	38.53	53.9	15.3	180	34	VBW: 620 Hz
Hori.	22980.000	AV	40.56	40.19	15.17	47.17	-9.54	39.21	53.9	14.6	161	262	VBW: 620 Hz
Vert.	7660.000	PK	49.47	37.26	8.85	43.48	2.26	54.36	73.9	19.5	166	254	-
Vert.	11490.000	PK	50.17	38.19	10.43	42.44	-9.54	46.81	73.9	27.0	139	48	-
Vert.	22980.000	PK	50.76	40.19	15.17	47.17	-9.54	49.41	73.9	24.4	161	49	-
Vert.	7660.000	AV	40.22	37.26	8.85	43.48	2.26	45.11	53.9	8.7	166	254	VBW: 620 Hz, *1)
Vert.	11490.000	AV	40.46	38.19	10.43	42.44	-9.54	37.10	53.9	16.8	139	48	VBW: 620 Hz
Vert.	22980.000	AV	48.14	40.19	15.17	47.17	-9.54	46.79	53.9	7.1	161	49	VBW: 620 Hz

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

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

Distance factor: 1 GHz - 10 GHz: 20log (3.89 m / 3.0 m) = 2.26 dB

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.99	32.42	17.15	43.50	2.26	57.32	-37.91	-27.0	10.9	104	322	-
Hori.	5700.000	PK	49.34	32.55	17.18	43.51	2.26	57.82	-37.41	10.0	47.4	104	322	-
Hori.	5720.000	PK	50.18	32.61	17.19	43.52	2.26	58.72	-36.51	15.6	52.1	104	322	-
Hori.	5725.000	PK	50.92	32.63	17.19	43.52	2.26	59.48	-35.75	27.0	62.7	104	322	-
Hori.	17325.000	PK	47.23	40.06	13.17	40.41	-9.54	50.51	-44.72	-27.0	17.7	152	311	-
Vert.	5650.000	PK	48.94	32.42	17.15	43.50	2.26	57.27	-37.96	-27.0	10.9	211	313	-
Vert.	5700.000	PK	48.76	32.55	17.18	43.51	2.26	57.24	-37.99	10.0	47.9	211	313	-
Vert.	5720.000	PK	48.80	32.61	17.19	43.52	2.26	57.34	-37.89	15.6	53.4	211	313	-
Vert.	5725.000	PK	48.98	32.63	17.19	43.52	2.26	57.54	-37.69	27.0	64.6	211	313	-
Vert.	17325.000	PK	48.02	40.06	13.17	40.41	-9.54	51.30	-43.93	-27.0	16.9	155	355	-

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

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

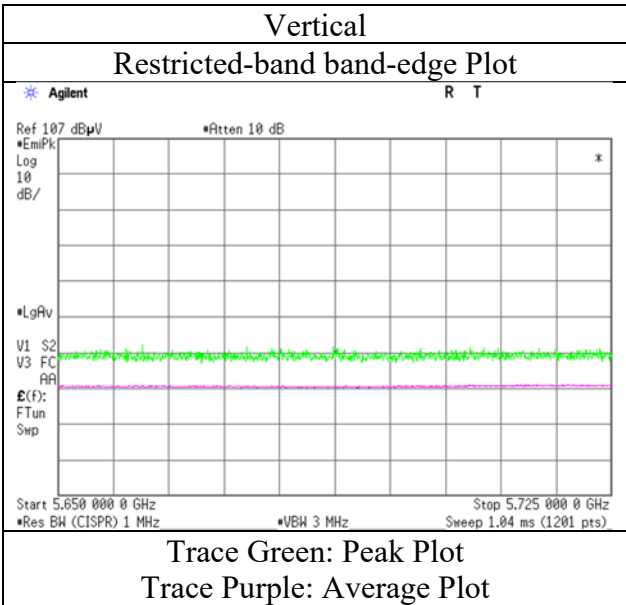
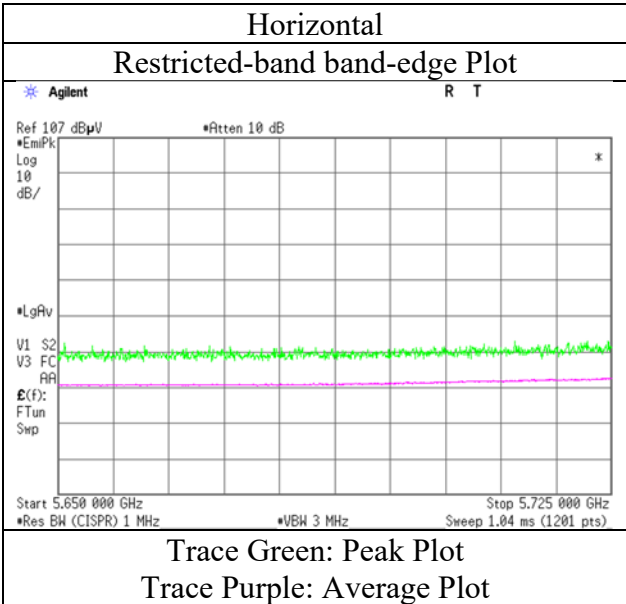
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz: 20log (3.89 m / 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 12, 2022
Temperature / Humidity	24 deg.C, 55 %RH
Engineer	Shiro Kobayashi (1 GHz -10 GHz)
Mode	Tx 11n-20 SDM 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	3	3	3	3
Date	June 12, 2022	June 16, 2022	June 17, 2022	June 17, 2022
Temperature / Humidity	24 deg.C, 55 %RH	25 deg.C, 41 %RH	23 deg.C, 50 %RH	24 deg.C, 45 %RH
Engineer	Shiro Kobayashi	Kouki Yamada	Hiromasa Sato	Kouki Yamada
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 SDM 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7713.333	PK	52.71	37.28	8.84	43.41	2.26	57.68	73.9	16.2	328	5	-
Hori.	11570.000	PK	49.40	38.25	10.48	42.42	-9.54	46.17	73.9	27.7	132	33	-
Hori.	7713.333	AV	45.97	37.28	8.84	43.41	2.26	50.94	53.9	2.9	328	5	VBW: 620 Hz, *1)
Hori.	11570.000	AV	41.01	38.25	10.48	42.42	-9.54	37.78	53.9	16.1	132	33	VBW: 620 Hz
Vert.	7713.333	PK	50.02	37.28	8.84	43.41	2.26	54.99	73.9	18.9	174	248	-
Vert.	11570.000	PK	49.42	38.25	10.48	42.42	-9.54	46.19	73.9	27.7	147	302	-
Vert.	7713.333	AV	40.21	37.28	8.84	43.41	2.26	45.18	53.9	8.7	174	248	VBW: 620 Hz, *1)
Vert.	11570.000	AV	38.85	38.25	10.48	42.42	-9.54	35.62	53.9	18.2	147	302	VBW: 620 Hz

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

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

Distance factor: 1 GHz - 10 GHz: $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	46.27	40.10	13.18	40.39	-9.54	49.62	-45.61	-27.0	18.6	168	49	-
Hori.	23140.000	PK	46.25	40.14	15.25	47.01	-9.54	45.09	-50.14	-27.0	23.1	160	254	-
Vert.	17355.000	PK	47.85	40.10	13.18	40.39	-9.54	51.20	-44.03	-27.0	17.0	128	14	-
Vert.	23140.000	PK	49.97	40.14	15.25	47.01	-9.54	48.81	-46.42	-27.0	19.4	162	49	-

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

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

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

Distance factor: 1 GHz - 10 GHz: $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	3	3	3	3
Date	June 12, 2022	June 16, 2022	June 17, 2022	June 17, 2022
Temperature / Humidity	24 deg.C, 55 %RH	25 deg.C, 41 %RH	23 deg.C, 50 %RH	24 deg.C, 45 %RH
Engineer	Shiro Kobayashi	Kouki Yamada	Hiromasa Sato	Kouki Yamada
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 SDM 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	51.09	38.33	10.54	42.41	-9.54	48.01	73.9	25.8	176	345	-
Hori.	11650.000	AV	41.52	38.33	10.54	42.41	-9.54	38.44	53.9	15.4	176	345	VBW: 620 Hz
Vert.	11650.000	PK	49.29	38.33	10.54	42.41	-9.54	46.21	73.9	27.6	112	303	-
Vert.	11650.000	AV	38.28	38.33	10.54	42.41	-9.54	35.20	53.9	18.7	112	303	VBW: 620 Hz

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

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

Distance factor: 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.44	32.99	17.28	43.54	2.26	58.43	-36.80	27.0	63.8	102	328	-
Hori.	5855.000	PK	48.98	33.00	17.28	43.54	2.26	57.98	-37.25	15.6	52.8	102	328	-
Hori.	5875.000	PK	49.09	33.03	17.30	43.54	2.26	58.14	-37.09	10.0	47.0	102	328	-
Hori.	5921.001	PK	49.23	33.09	17.33	43.55	2.26	58.36	-36.87	-24.0	12.8	102	328	-
Hori.	5925.000	PK	48.69	33.10	17.33	43.55	2.26	57.83	-37.40	-27.0	10.4	102	328	-
Hori.	7766.667	PK	52.47	37.40	8.85	43.33	2.26	57.65	-37.58	-27.0	10.5	101	3	-
Hori.	17475.000	PK	46.12	40.22	13.27	40.31	-9.54	49.76	-45.47	-27.0	18.4	148	257	-
Hori.	23300.000	PK	46.10	40.14	15.33	46.85	-9.54	45.18	-50.05	-27.0	23.0	162	271	-
Vert.	5850.000	PK	48.88	32.99	17.28	43.54	2.26	57.87	-37.36	27.0	64.3	183	327	-
Vert.	5855.000	PK	48.73	33.00	17.28	43.54	2.26	57.73	-37.50	15.6	53.1	183	327	-
Vert.	5875.000	PK	48.23	33.03	17.30	43.54	2.26	57.28	-37.95	10.0	47.9	183	327	-
Vert.	5925.000	PK	48.08	33.10	17.33	43.55	2.26	57.22	-38.01	-27.0	11.0	183	327	-
Vert.	7766.667	PK	50.86	37.40	8.85	43.33	2.26	56.04	-39.19	-27.0	12.1	164	252	-
Vert.	17475.000	PK	46.57	40.22	13.27	40.31	-9.54	50.21	-45.02	-27.0	18.0	167	13	-
Vert.	23300.000	PK	49.75	40.14	15.33	46.85	-9.54	48.83	-46.40	-27.0	19.4	159	48	-

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

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

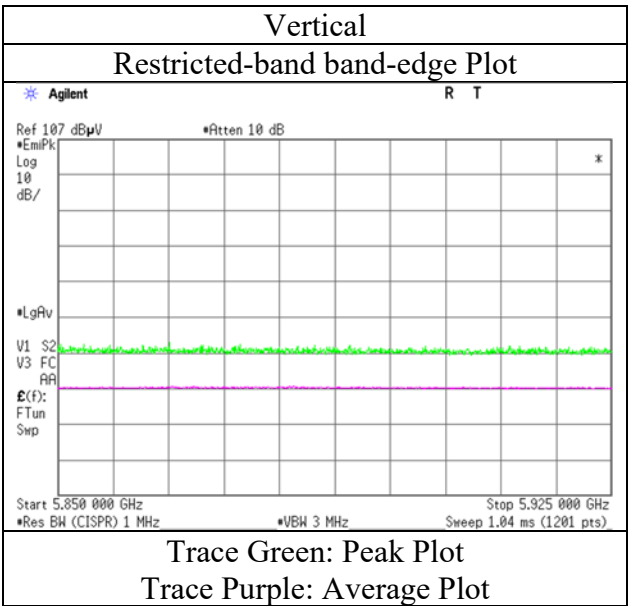
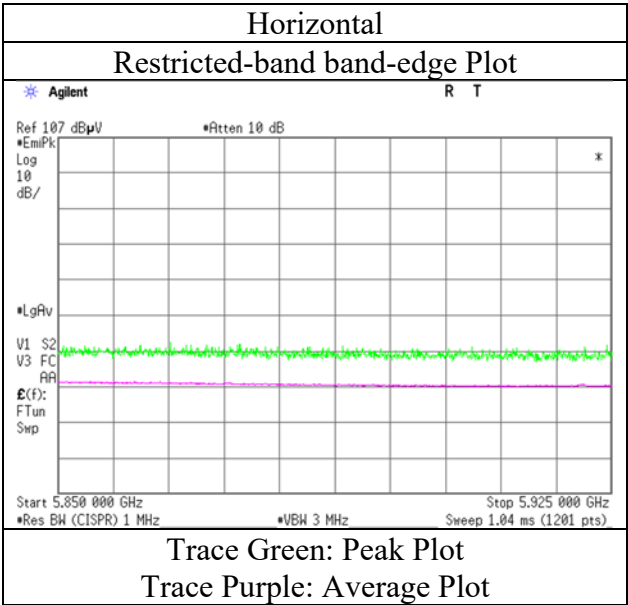
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Distance factor: 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 12, 2022
Temperature / Humidity	24 deg.C, 55 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-20 SDM 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 1 3 3 3 3
Date June 19, 2022 June 12, 2022 June 16, 2022 June 17, 2022 June 17, 2022
Temperature / Humidity 22 deg.C, 59 %RH 24 deg.C, 55 %RH 25 deg.C, 41 %RH 23 deg.C, 50 %RH 24 deg.C, 45 %RH
Engineer Yasumasa Owaki Shiro Kobayashi Kouki Yamada Hiromasa Sato Kouki Yamada
(30 MHz -1 GHz) (1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ac-40 CDD 5755 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	54.000	QP	49.00	9.90	7.45	31.83	0.00	34.52	40.0	5.4	374	227	-
Hori.	84.000	QP	51.30	7.05	8.42	31.82	0.00	34.95	40.0	5.0	231	125	-
Hori.	96.000	QP	48.50	9.47	8.32	31.81	0.00	34.48	43.5	9.0	345	143	-
Hori.	173.350	QP	36.70	15.81	8.99	31.78	0.00	29.72	43.5	13.7	184	353	-
Hori.	216.000	QP	52.50	11.21	5.95	31.77	0.00	37.89	43.5	5.6	157	185	-
Hori.	7673.333	PK	52.39	37.26	8.85	43.46	2.26	57.30	73.9	16.6	325	6	-
Hori.	11510.000	PK	47.80	38.21	10.43	42.43	-9.54	44.47	73.9	29.4	261	83	-
Hori.	23020.000	PK	46.39	40.17	15.19	47.14	-9.54	45.07	73.9	28.8	162	273	-
Hori.	7673.333	AV	46.35	37.26	8.85	43.46	2.26	51.26	53.9	2.6	325	6	VBW: 1.2 kHz *1)
Hori.	11510.000	AV	38.56	38.21	10.43	42.43	-9.54	35.23	53.9	18.6	261	83	VBW: 1.2 kHz
Hori.	23020.000	AV	40.92	40.17	15.19	47.14	-9.54	39.60	53.9	14.3	162	273	VBW: 1.2 kHz
Vert.	42.000	QP	43.50	14.16	7.32	31.83	0.00	33.15	40.0	6.8	100	9	-
Vert.	54.000	QP	49.70	9.90	7.45	31.83	0.00	35.22	40.0	4.7	100	313	-
Vert.	84.000	QP	48.80	7.05	8.42	31.82	0.00	32.45	40.0	7.5	125	305	-
Vert.	87.000	QP	45.60	7.68	8.42	31.82	0.00	29.88	40.0	10.1	121	291	-
Vert.	7673.333	PK	49.71	37.26	8.85	43.46	2.26	54.62	73.9	19.2	174	250	-
Vert.	11510.000	PK	49.81	38.21	10.43	42.43	-9.54	46.48	73.9	27.4	124	302	-
Vert.	23020.000	PK	49.95	40.17	15.19	47.14	-9.54	48.63	73.9	25.2	166	48	-
Vert.	7673.333	AV	40.30	37.26	8.85	43.46	2.26	45.21	53.9	8.6	174	250	VBW: 1.2 kHz *1)
Vert.	11510.000	AV	39.67	38.21	10.43	42.43	-9.54	36.34	53.9	17.5	124	302	VBW: 1.2 kHz
Vert.	23020.000	AV	46.51	40.17	15.19	47.14	-9.54	45.19	53.9	8.7	166	48	VBW: 1.2 kHz

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

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

Distance factor: 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.10	32.42	17.15	43.50	2.26	58.43	-36.80	-27.0	9.7	107	325	-
Hori.	5659.002	PK	50.18	32.43	17.16	43.51	2.26	58.52	-36.71	-20.3	16.4	107	325	-
Hori.	5700.000	PK	50.35	32.55	17.18	43.51	2.26	58.83	-36.40	10.0	46.4	107	325	-
Hori.	5720.000	PK	51.79	32.61	17.19	43.52	2.26	60.33	-34.90	15.6	50.5	107	325	-
Hori.	5725.000	PK	54.85	32.63	17.19	43.52	2.26	63.41	-31.82	27.0	58.8	107	325	-
Hori.	17265.000	PK	47.05	39.92	13.14	40.45	-9.54	50.12	-45.11	-27.0	18.1	168	54	-
Vert.	5650.000	PK	48.58	32.42	17.15	43.50	2.26	56.91	-38.32	-27.0	11.3	180	308	-
Vert.	5700.000	PK	49.16	32.55	17.18	43.51	2.26	57.64	-37.59	10.0	47.5	180	308	-
Vert.	5720.000	PK	49.03	32.61	17.19	43.52	2.26	57.57	-37.66	15.6	53.2	180	308	-
Vert.	5725.000	PK	49.42	32.63	17.19	43.52	2.26	57.98	-37.25	27.0	64.2	180	308	-
Vert.	17265.000	PK	49.52	39.92	13.14	40.45	-9.54	52.59	-42.64	-27.0	15.6	120	15	-

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

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

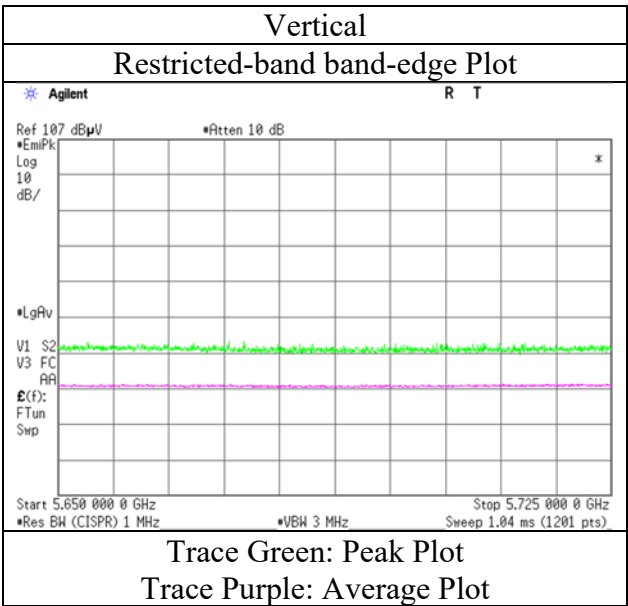
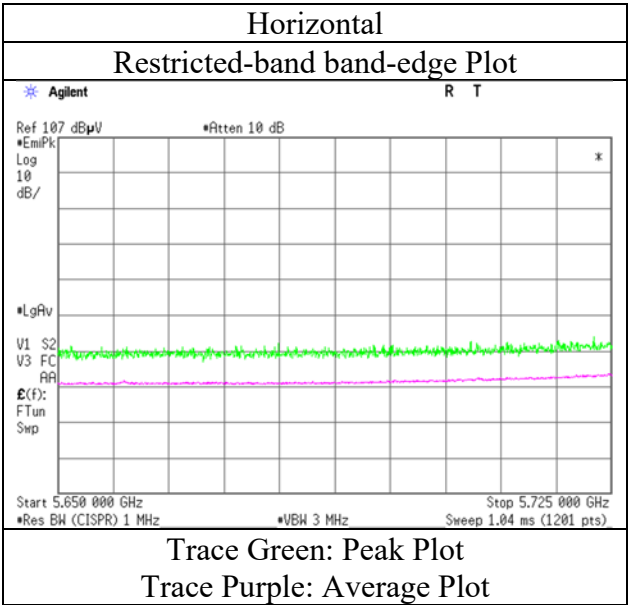
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 12, 2022
Temperature / Humidity	24 deg.C, 55 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-40 CDD 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 3 3 3 3
Date June 12, 2022 June 16, 2022 June 17, 2022 June 17, 2022
Temperature / Humidity 24 deg.C, 55 %RH 25 deg.C, 41 %RH 23 deg.C, 50 %RH 24 deg.C, 45 %RH
Engineer Shiro Kobayashi Kouki Yamada Hiromasa Sato Kouki Yamada
(1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ac-40 CDD 5795 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7726.667	PK	52.55	37.30	8.84	43.39	2.26	57.56	73.9	16.3	314	4	-
Hori.	11590.000	PK	50.35	38.29	10.50	42.42	-9.54	47.18	73.9	26.7	131	33	-
Hori.	7726.667	AV	46.91	37.30	8.84	43.39	2.26	51.92	53.9	1.9	314	4	VBW: 1.2 kHz *1)
Hori.	11590.000	AV	41.04	38.29	10.50	42.42	-9.54	37.87	53.9	16.0	131	33	VBW: 1.2 kHz
Vert.	7726.667	PK	50.61	37.30	8.84	43.39	2.26	55.62	73.9	18.2	179	251	-
Vert.	11590.000	PK	49.01	38.29	10.50	42.42	-9.54	45.84	73.9	28.0	160	301	-
Vert.	7726.667	AV	39.82	37.30	8.84	43.39	2.26	44.83	53.9	9.0	179	251	VBW: 1.2 kHz *1)
Vert.	11590.000	AV	39.20	38.29	10.50	42.42	-9.54	36.03	53.9	17.8	160	301	VBW: 1.2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.43	32.99	17.28	43.54	2.26	58.42	-36.81	27.0	63.8	102	327	-
Hori.	5855.000	PK	48.92	33.00	17.28	43.54	2.26	57.92	-37.31	15.6	52.9	102	327	-
Hori.	5875.000	PK	48.43	33.03	17.30	43.54	2.26	57.48	-37.75	10.0	47.7	102	327	-
Hori.	5891.000	PK	48.93	33.05	17.31	43.54	2.26	58.01	-37.22	-1.8	35.4	102	327	-
Hori.	5925.000	PK	48.19	33.10	17.33	43.55	2.26	57.33	-37.90	-27.0	10.9	102	327	-
Hori.	17385.000	PK	46.29	40.13	13.21	40.37	-9.54	49.72	-45.51	-27.0	18.5	151	260	-
Hori.	23180.000	PK	46.24	40.14	15.27	46.97	-9.54	45.14	-50.09	-27.0	23.0	165	268	-
Vert.	5850.000	PK	48.28	32.99	17.28	43.54	2.26	57.27	-37.96	27.0	64.9	200	309	-
Vert.	5855.000	PK	48.60	33.00	17.28	43.54	2.26	57.60	-37.63	15.6	53.2	200	309	-
Vert.	5875.000	PK	48.42	33.03	17.30	43.54	2.26	57.47	-37.76	10.0	47.7	200	309	-
Vert.	5925.000	PK	48.38	33.10	17.33	43.55	2.26	57.52	-37.71	-27.0	10.7	200	309	-
Vert.	17385.000	PK	48.02	40.13	13.21	40.37	-9.54	51.45	-43.78	-27.0	16.7	122	14	-
Vert.	23180.000	PK	50.65	40.14	15.27	46.97	-9.54	49.55	-45.68	-27.0	18.6	163	48	-

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

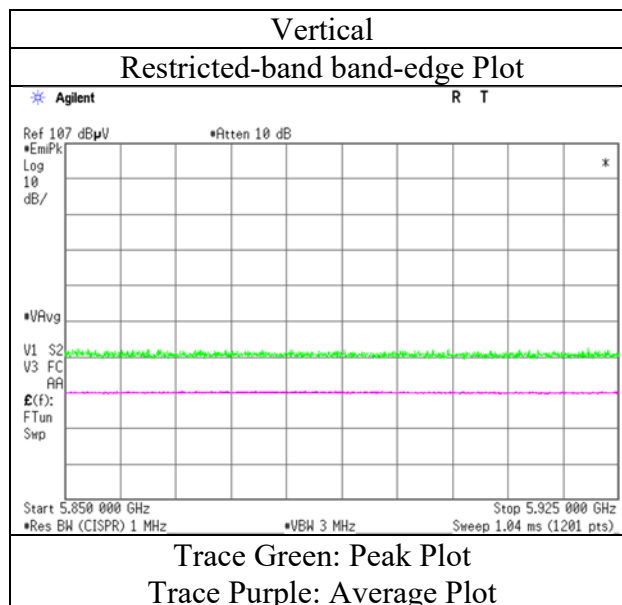
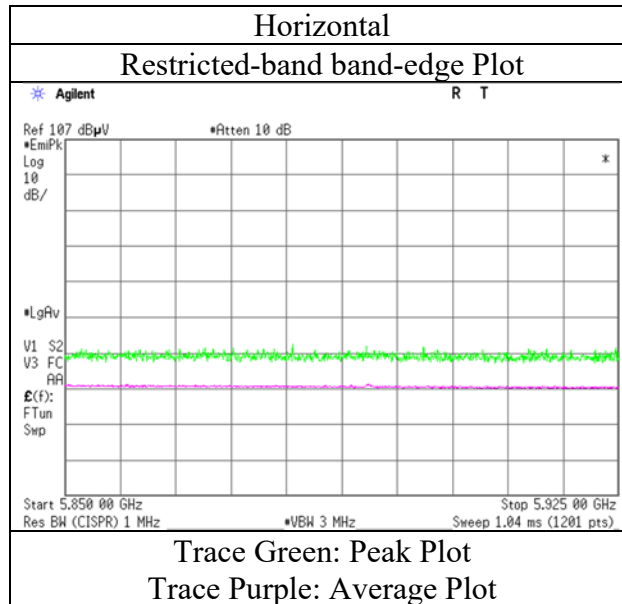
Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6)) * \text{Distance} : 3 [\text{m}]^2 / 30 * 10^{\wedge}3)$

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 12, 2022
Temperature / Humidity	24 deg.C, 55 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-40 CDD 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 3 3 3 3
Date June 12, 2022 June 16, 2022 June 17, 2022 June 17, 2022
Temperature / Humidity 24 deg.C, 55 %RH 25 deg.C, 41 %RH 23 deg.C, 50 %RH 24 deg.C, 45 %RH
Engineer Shiro Kobayashi Kouki Yamada Hiromasa Sato Kouki Yamada
(1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ac-80 SDM, 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7700.000	PK	52.79	37.27	8.85	43.43	2.26	57.74	73.9	16.1	332	6	-
Hori.	11550.000	PK	46.93	38.23	10.47	42.42	-9.54	43.67	73.9	30.2	136	85	-
Hori.	23100.000	PK	47.27	40.15	15.23	47.06	-9.54	46.05	73.9	27.8	163	281	-
Hori.	7700.000	AV	47.15	37.27	8.85	43.43	2.26	52.10	53.9	1.8	332	6	VBW: 3.6 kHz *1)
Hori.	11550.000	AV	39.33	38.23	10.47	42.42	-9.54	36.07	53.9	17.8	136	85	VBW: 3.6 kHz
Hori.	23100.000	AV	42.37	40.15	15.23	47.06	-9.54	41.15	53.9	12.7	163	281	VBW: 3.6 kHz
Vert.	7700.000	PK	49.75	37.27	8.85	43.43	2.26	54.70	73.9	19.2	167	254	-
Vert.	11550.000	PK	47.77	38.23	10.47	42.42	-9.54	44.51	73.9	29.3	136	55	-
Vert.	23100.000	PK	51.58	40.15	15.23	47.06	-9.54	50.36	73.9	23.5	163	48	-
Vert.	7700.000	AV	40.55	37.27	8.85	43.43	2.26	45.50	53.9	8.4	167	254	VBW: 3.6 kHz *1)
Vert.	11550.000	AV	39.79	38.23	10.47	42.42	-9.54	36.53	53.9	17.3	136	55	VBW: 3.6 kHz
Vert.	23100.000	AV	48.92	40.15	15.23	47.06	-9.54	47.70	53.9	6.2	163	48	VBW: 3.6 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.14	32.42	17.15	43.50	2.26	58.47	-36.76	-27.0	9.7	104	323	-
Hori.	5700.000	PK	53.09	32.55	17.18	43.51	2.26	61.57	-33.66	10.0	43.6	104	323	-
Hori.	5720.000	PK	56.06	32.61	17.19	43.52	2.26	64.60	-30.63	15.6	46.2	104	323	-
Hori.	5724.196	PK	59.11	32.62	17.19	43.52	2.26	67.66	-27.57	25.2	52.7	104	323	-
Hori.	5725.000	PK	57.67	32.63	17.19	43.52	2.26	66.23	-29.00	27.0	56.0	104	323	-
Hori.	5850.000	PK	50.87	32.99	17.28	43.54	2.26	59.86	-35.37	27.0	62.3	104	323	-
Hori.	5855.000	PK	50.36	33.00	17.28	43.54	2.26	59.36	-35.87	15.6	51.4	104	323	-
Hori.	5871.001	PK	50.46	33.02	17.29	43.54	2.26	59.49	-35.74	11.2	46.9	104	323	-
Hori.	5875.000	PK	49.61	33.03	17.30	43.54	2.26	58.66	-36.57	10.0	46.5	104	323	-
Hori.	5925.000	PK	48.75	33.10	17.33	43.55	2.26	57.89	-37.34	-27.0	10.3	104	323	-
Hori.	17325.000	PK	47.90	40.06	13.17	40.41	-9.54	51.18	-44.05	-27.0	17.0	161	88	-
Vert.	5650.000	PK	48.78	32.42	17.15	43.50	2.26	57.11	-38.12	-27.0	11.1	276	279	-
Vert.	5700.000	PK	49.13	32.55	17.18	43.51	2.26	57.61	-37.62	10.0	47.6	276	279	-
Vert.	5720.000	PK	49.14	32.61	17.19	43.52	2.26	57.68	-37.55	15.6	53.1	276	279	-
Vert.	5725.000	PK	52.49	32.63	17.19	43.52	2.26	61.05	-34.18	27.0	61.1	276	279	-
Vert.	5850.000	PK	49.03	32.99	17.28	43.54	2.26	58.02	-37.21	27.0	64.2	276	279	-
Vert.	5855.000	PK	48.88	33.00	17.28	43.54	2.26	57.88	-37.35	15.6	52.9	276	279	-
Vert.	5875.000	PK	48.72	33.03	17.30	43.54	2.26	57.77	-37.46	10.0	47.4	276	279	-
Vert.	5925.000	PK	48.28	33.10	17.33	43.55	2.26	57.42	-37.81	-27.0	10.8	276	279	-
Vert.	17325.000	PK	47.88	40.06	13.17	40.41	-9.54	51.16	-44.07	-27.0	17.0	118	15	-

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

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

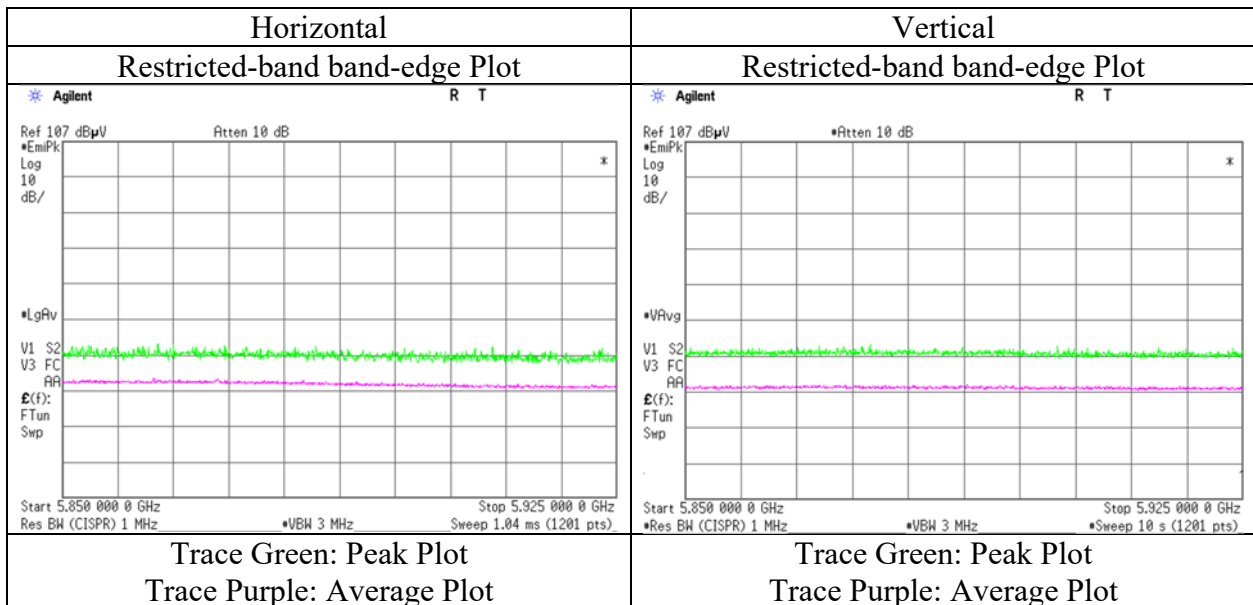
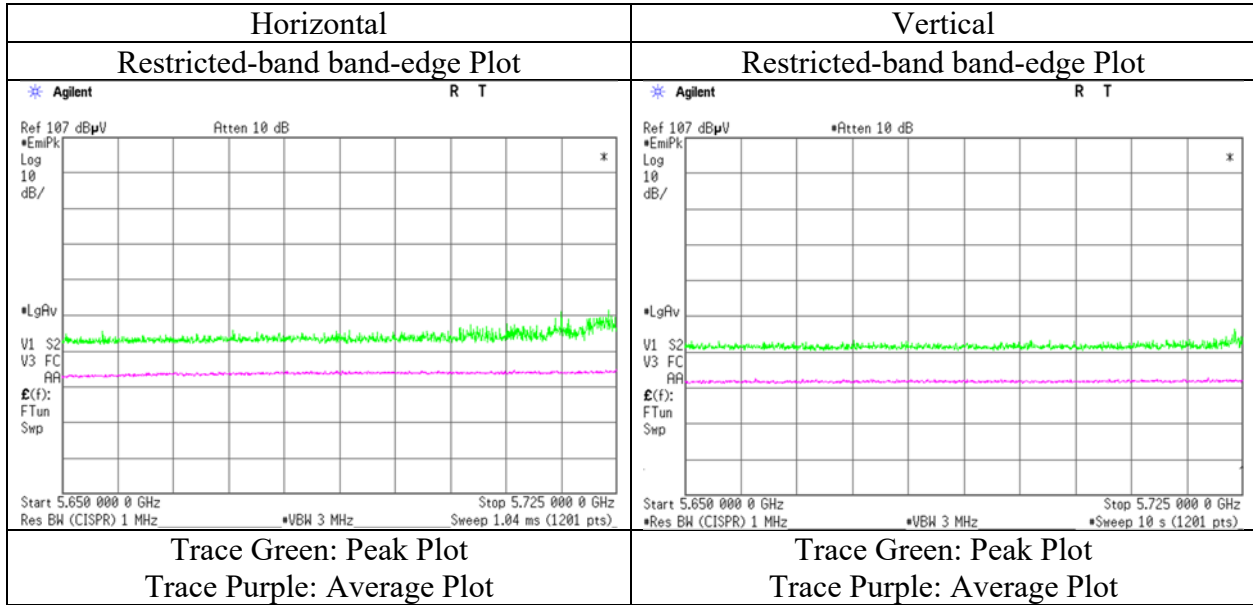
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.89 m / 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 12, 2022
Temperature / Humidity	24 deg.C, 55 %RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-80 SDM, 5745 MHz

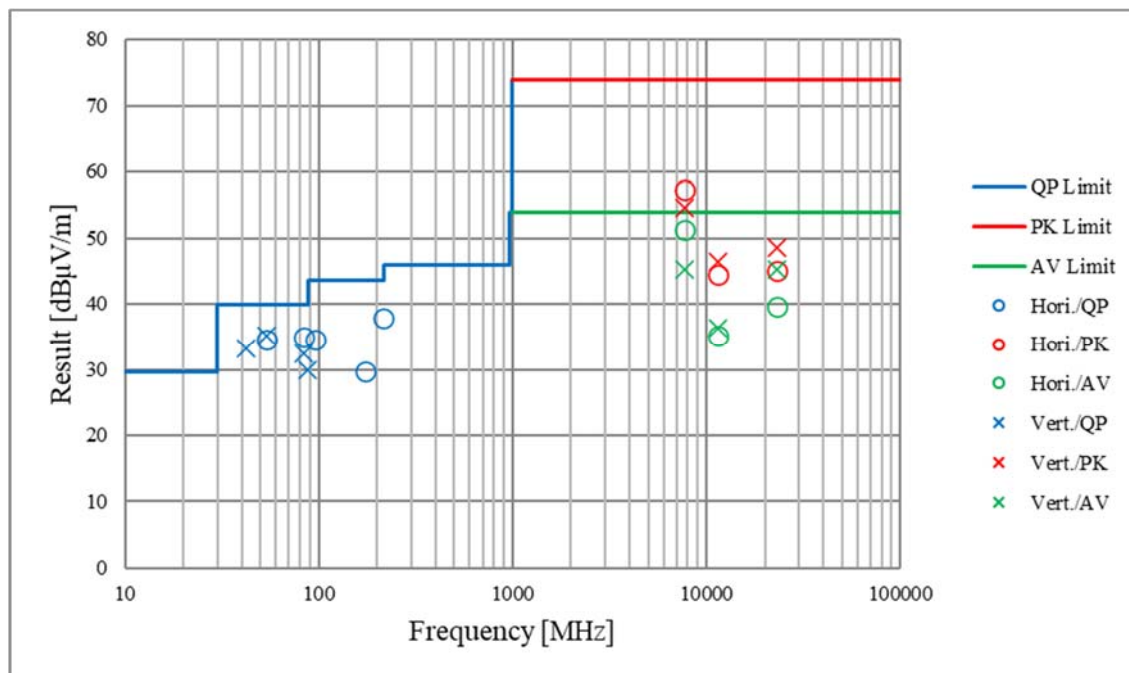


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

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

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	1	3	3	3	3
Date	June 19, 2022	June 12, 2022	June 16, 2022	June 17, 2022	June 17, 2022
Temperature / Humidity	22 deg.C, 59 %RH	24 deg.C, 55 %RH	25 deg.C, 41 %RH	23 deg.C, 50 %RH	24 deg.C, 45 %RH
Engineer	Yasumasa Owaki	Shiro Kobayashi	Kouki Yamada	Hiromasa Sato	Kouki Yamada
	(30 MHz -1 GHz)	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 CDD 5755 MHz				



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber 3
Date June 18, 2022
Temperature / Humidity 24 deg.C, 54 %RH
Engineer Kenichi Adachi
 (1 GHz -10 GHz)
Mode Tx 11n-20 SDM, 5745 MHz with DH5 2441 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5456.950	PK	48.68	32.16	16.77	43.42	2.26	56.45	73.9	17.4	100	323	-
Hori.	7660.000	PK	52.48	37.26	8.63	43.48	2.26	57.15	73.9	16.7	118	5	-
Hori.	5456.950	AV	38.46	32.16	16.77	43.42	2.26	46.23	53.9	7.6	100	323	VBW: 620 Hz, *1)
Hori.	7660.000	AV	45.88	37.26	8.63	43.48	2.26	50.55	53.9	3.3	118	5	VBW: 620 Hz, *1)
Vert.	5456.950	PK	48.42	32.16	16.77	43.42	2.26	56.19	73.9	17.7	288	278	-
Vert.	7660.000	PK	49.24	37.26	8.63	43.48	2.26	53.91	73.9	19.9	283	272	-
Vert.	5456.950	AV	37.78	32.16	16.77	43.42	2.26	45.55	53.9	8.3	288	278	VBW: 620 Hz, *1)
Vert.	7660.000	AV	39.98	37.26	8.63	43.48	2.26	44.65	53.9	9.2	283	272	VBW: 620 Hz, *1)

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.67	32.42	16.89	43.50	2.26	56.74	-38.49	-27.0	11.4	100	323	-
Hori.	5700.000	PK	48.98	32.55	16.92	43.51	2.26	57.20	-38.03	10.0	48.0	100	323	-
Hori.	5720.000	PK	49.48	32.61	16.94	43.52	2.26	57.77	-37.46	15.6	53.0	100	323	-
Hori.	5725.000	PK	50.60	32.63	16.94	43.52	2.26	58.91	-36.32	27.0	63.3	100	323	-
Vert.	5650.000	PK	48.48	32.42	16.89	43.50	2.26	56.55	-38.68	-27.0	11.6	288	278	-
Vert.	5700.000	PK	48.84	32.55	16.92	43.51	2.26	57.06	-38.17	10.0	48.1	288	278	-
Vert.	5720.000	PK	49.44	32.61	16.94	43.52	2.26	57.73	-37.50	15.6	53.1	288	278	-
Vert.	5725.000	PK	49.68	32.63	16.94	43.52	2.26	57.99	-37.24	27.0	64.2	288	278	-

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

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

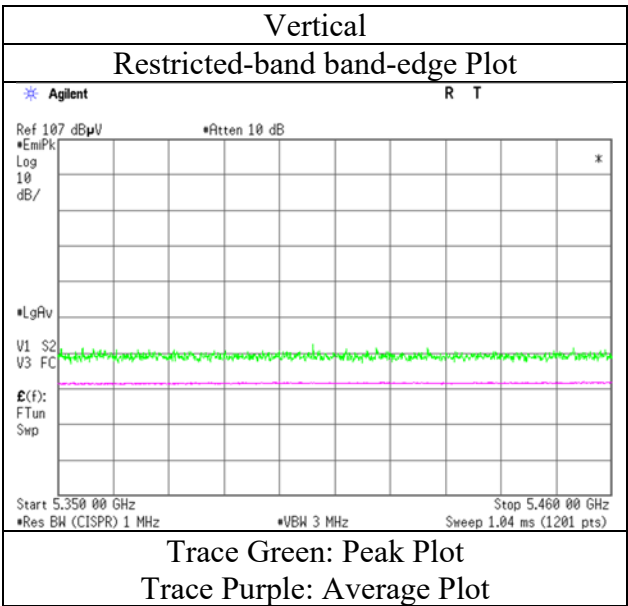
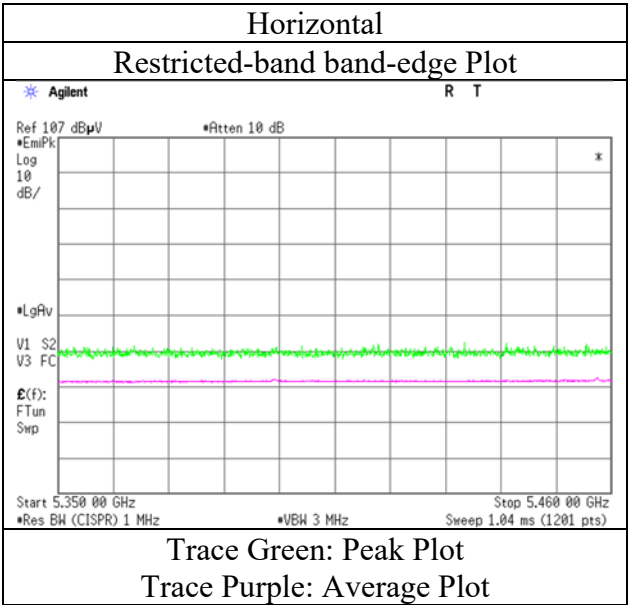
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 18, 2022
Temperature / Humidity	24 deg.C, 54 %RH
Engineer	Kenichi Adachi
Mode	Tx 11n-20 SDM, 5745 MHz with DH5 2441 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 3
Date June 18, 2022
Temperature / Humidity 24 deg.C, 54 %RH
Engineer Kenichi Adachi
 (1 GHz -10 GHz)
Mode Tx 11n-20 SDM, 5825 MHz with DH5 2441 MHz

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.82	32.99	17.04	43.54	2.26	58.57	-36.66	27.0	63.6	100	326	-
Hori.	5855.000	PK	48.62	33.00	17.04	43.54	2.26	57.38	-37.85	15.6	53.4	100	326	-
Hori.	5875.000	PK	48.50	33.03	17.06	43.54	2.26	57.31	-37.92	10.0	47.9	100	326	-
Hori.	5921.001	PK	48.56	33.09	17.09	43.55	2.26	57.45	-37.78	-24.0	13.7	100	326	-
Hori.	5925.000	PK	48.30	33.10	17.09	43.55	2.26	57.20	-38.03	-27.0	11.0	100	326	-
Hori.	7766.667	PK	53.05	37.40	8.67	43.33	2.26	58.05	-37.18	-27.0	10.1	116	4	-
Vert.	5850.000	PK	48.49	32.99	17.04	43.54	2.26	57.24	-37.99	27.0	64.9	287	274	-
Vert.	5855.000	PK	48.45	33.00	17.04	43.54	2.26	57.21	-38.02	15.6	53.6	287	274	-
Vert.	5875.000	PK	48.40	33.03	17.06	43.54	2.26	57.21	-38.02	10.0	48.0	287	274	-
Vert.	5921.001	PK	48.46	33.09	17.09	43.55	2.26	57.35	-37.88	-24.0	13.8	287	274	-
Vert.	5925.000	PK	48.06	33.10	17.09	43.55	2.26	56.96	-38.27	-27.0	11.2	287	274	-
Vert.	7766.667	PK	50.16	37.40	8.67	43.33	2.26	55.16	-40.07	-27.0	13.0	286	270	-

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

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

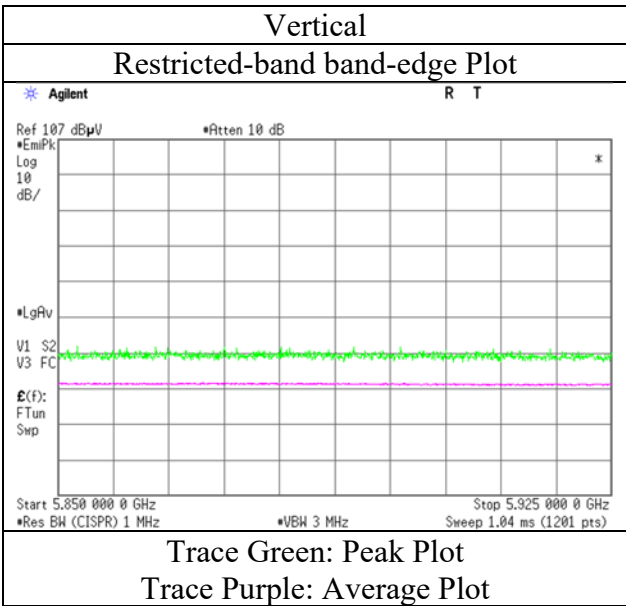
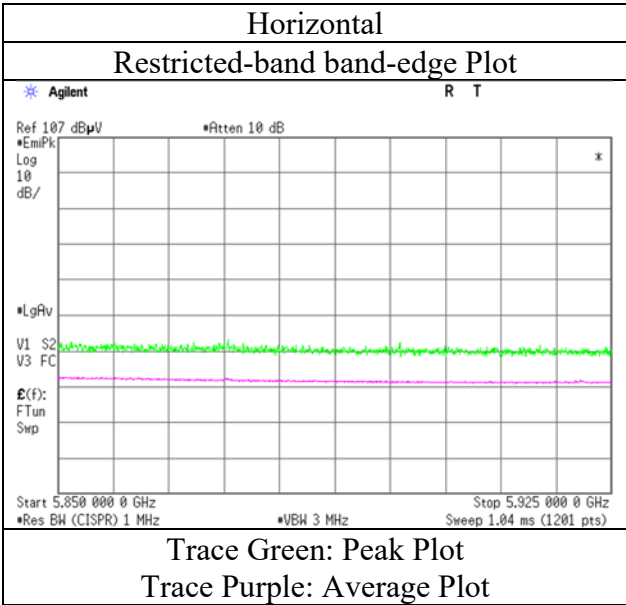
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.89 m/ 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 18, 2022
Temperature / Humidity	24 deg.C, 54 %RH
Engineer	Kenichi Adachi
Mode	Tx 11n-20 SDM, 5825 MHz with DH5 2441 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	1	3	3
Date	June 19, 2022	June 18, 2022	June 17, 2022
Temperature / Humidity	22 deg.C, 59 %RH	24 deg.C, 54 %RH	24 deg.C, 45 %RH
Engineer	Yasumasa Owaki	Kenichi Adachi	Kouki Yamada
	(30 MHz -1 GHz)	(1 GHz -10 GHz)	(10 GHz -40 GHz)
Mode	Tx 11ac-40 CDD, 5755 MHz with DH5 2441 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	54.000	QP	50.50	9.90	7.45	31.83	0.00	36.02	40.0	3.9	383	221	-
Hori.	60.000	QP	46.80	8.22	7.27	31.83	0.00	30.46	40.0	9.5	360	207	-
Hori.	84.000	QP	50.10	7.05	8.42	31.82	0.00	33.75	40.0	6.2	389	118	-
Hori.	96.000	QP	48.50	9.47	8.32	31.81	0.00	34.48	43.5	9.0	345	143	-
Hori.	216.000	QP	51.60	11.21	5.95	31.77	0.00	36.99	43.5	6.5	163	193	-
Hori.	7673.333	PK	52.78	37.26	8.64	43.46	2.26	57.48	73.9	16.4	121	4	-
Hori.	11510.000	PK	50.11	38.21	10.43	42.43	-9.54	46.78	73.9	27.1	160	80	-
Hori.	23020.000	PK	48.42	40.17	15.19	47.14	-9.54	47.10	73.9	26.8	155	157	-
Hori.	7673.333	AV	45.98	37.26	8.64	43.46	2.26	50.68	53.9	3.2	121	4	VBW: 1.2 kHz *1)
Hori.	11510.000	AV	40.34	38.21	10.43	42.43	-9.54	37.01	53.9	16.8	160	80	VBW: 1.2 kHz
Hori.	23020.000	AV	42.23	40.17	15.19	47.14	-9.54	40.91	53.9	12.9	155	157	VBW: 1.2 kHz
Vert.	42.000	QP	43.80	14.16	7.32	31.83	0.00	33.45	40.0	6.5	100	6	-
Vert.	52.500	QP	46.50	10.40	7.45	31.83	0.00	32.52	40.0	7.4	100	328	-
Vert.	60.000	QP	46.20	8.22	7.27	31.83	0.00	29.86	40.0	10.1	100	292	-
Vert.	84.000	QP	48.80	7.05	8.42	31.82	0.00	32.45	40.0	7.5	122	303	-
Vert.	7673.333	PK	49.68	37.26	8.64	43.46	2.26	54.38	73.9	19.5	292	272	-
Vert.	11510.000	PK	50.09	38.21	10.43	42.43	-9.54	46.76	73.9	27.1	148	301	-
Vert.	23020.000	PK	50.19	40.17	15.19	47.14	-9.54	48.87	73.9	25.0	161	44	-
Vert.	7673.333	AV	40.22	37.26	8.64	43.46	2.26	44.92	53.9	8.9	292	272	VBW: 1.2 kHz *1)
Vert.	11510.000	AV	40.22	38.21	10.43	42.43	-9.54	36.89	53.9	17.0	148	301	VBW: 1.2 kHz
Vert.	23020.000	AV	46.43	40.17	15.19	47.14	-9.54	45.11	53.9	8.7	161	44	VBW: 1.2 kHz

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

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

Distance factor: 1 GHz - 10 GHz: $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz: $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.36	32.42	16.89	43.50	2.26	56.43	-38.80	-27.0	11.8	100	325	-
Hori.	5700.000	PK	48.34	32.55	16.92	43.51	2.26	56.56	-38.67	10.0	48.6	100	325	-
Hori.	5720.000	PK	49.92	32.61	16.94	43.52	2.26	58.21	-37.02	15.6	52.6	100	325	-
Hori.	5725.000	PK	50.48	32.63	16.94	43.52	2.26	58.79	-36.44	27.0	63.4	100	325	-
Hori.	17265.000	PK	47.33	39.92	13.14	40.45	-9.54	50.40	-44.83	-27.0	17.8	168	49	-
Vert.	5650.000	PK	48.04	32.42	16.89	43.50	2.26	56.11	-39.12	-27.0	12.1	289	277	-
Vert.	5700.000	PK	48.28	32.55	16.92	43.51	2.26	56.50	-38.73	10.0	48.7	289	277	-
Vert.	5720.000	PK	48.98	32.61	16.94	43.52	2.26	57.27	-37.96	15.6	53.5	289	277	-
Vert.	5725.000	PK	49.12	32.63	16.94	43.52	2.26	57.43	-37.80	27.0	64.8	289	277	-
Vert.	17265.000	PK	48.17	39.92	13.14	40.45	-9.54	51.24	-43.99	-27.0	16.9	167	12	-

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

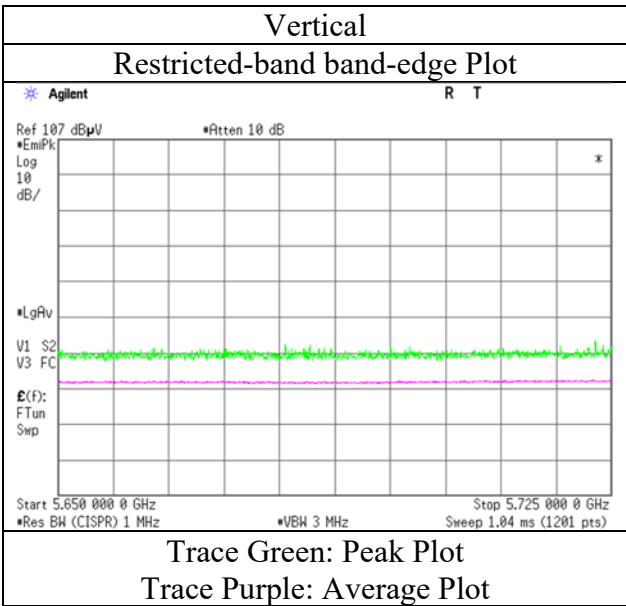
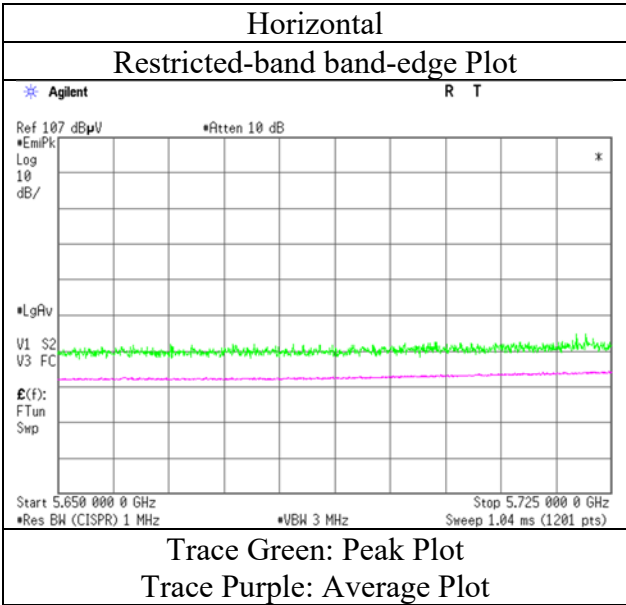
Result (EIRP [dBm]) = $10 * \text{LOG}((10^{(Electric\ Field\ Strength\ [dBuV/m] / 20)} * 10^{(-6)} * \text{Distance} : 3\text{ [m]})^{2/30} * 10^{(-3)})$

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

Distance factor: 1 GHz - 10 GHz: $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz: $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 18, 2022
Temperature / Humidity	24 deg.C, 54 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ac-40 CDD, 5755 MHz with DH5 2441 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 3
Date June 18, 2022
Temperature / Humidity 24 deg.C, 54 %RH
Engineer Kenichi Adachi
 (1 GHz -10 GHz)
Mode Tx 11ac-40 CDD, 5795 MHz with DH5 2441 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7726.667	PK	54.14	37.30	8.65	43.39	2.26	58.96	73.9	14.9	115	6	-
Hori.	7726.667	AV	46.46	37.30	8.65	43.39	2.26	51.28	53.9	2.6	115	6	VBW: 1.2 kHz, *1)
Vert.	7726.667	PK	50.12	37.30	8.65	43.39	2.26	54.94	73.9	18.9	289	273	-
Vert.	7726.667	AV	40.95	37.30	8.65	43.39	2.26	45.77	53.9	8.1	289	273	VBW: 1.2 kHz, *1)

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

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

Distance factor: 1 GHz - 10 GHz : 20log (3.89 m/ 3.0 m) = 2.26 dB

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

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.58	32.99	17.04	43.54	2.26	58.33	-36.90	27.0	63.9	100	327	-
Hori.	5855.000	PK	49.16	33.00	17.04	43.54	2.26	57.92	-37.31	15.6	52.9	100	327	-
Hori.	5875.000	PK	48.52	33.03	17.06	43.54	2.26	57.33	-37.90	10.0	47.9	100	327	-
Hori.	5890.998	PK	48.88	33.05	17.07	43.54	2.26	57.72	-37.51	-1.8	35.7	100	327	-
Hori.	5925.000	PK	48.50	33.10	17.09	43.55	2.26	57.40	-37.83	-27.0	10.8	100	327	-
Vert.	5850.000	PK	48.68	32.99	17.04	43.54	2.26	57.43	-37.80	27.0	64.8	292	280	-
Vert.	5855.000	PK	48.46	33.00	17.04	43.54	2.26	57.22	-38.01	15.6	53.6	292	280	-
Vert.	5875.000	PK	48.41	33.03	17.06	43.54	2.26	57.22	-38.01	10.0	48.0	292	280	-
Vert.	5890.998	PK	48.46	33.05	17.07	43.54	2.26	57.30	-37.93	-1.8	36.1	292	280	-
Vert.	5925.000	PK	48.26	33.10	17.09	43.55	2.26	57.16	-38.07	-27.0	11.0	292	280	-

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

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

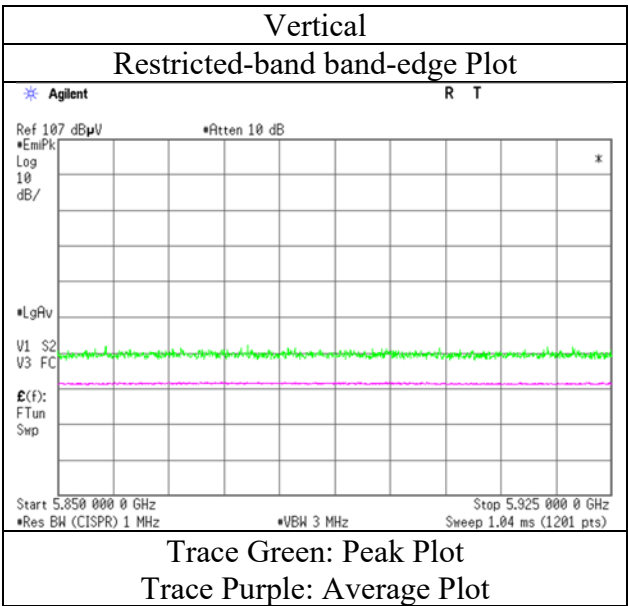
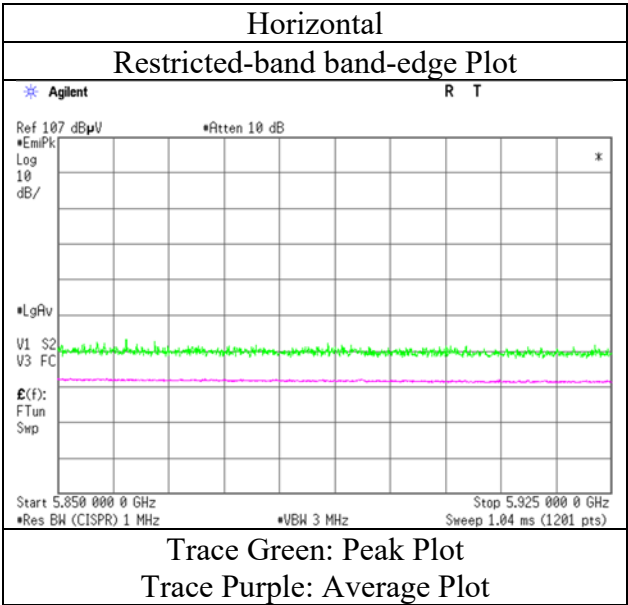
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz : 20log (3.89 m/ 3.0 m) = 2.26 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 18, 2022
Temperature / Humidity	24 deg.C, 54 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ac-40 CDD, 5795 MHz with DH5 2441 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 3
Date June 18, 2022
Temperature / Humidity 24 deg.C, 54 %RH
Engineer Kenichi Adachi
 (1 GHz -10 GHz)
Mode Tx 11ac-80 SDM, 5775 MHz with DH5 2441 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 Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5423.007	PK	49.44	32.10	16.74	43.37	2.26	57.17	73.9	16.7	100	327	-
Hori.	7700.001	PK	54.22	37.27	8.65	43.43	2.26	58.97	73.9	14.9	112	4	-
Hori.	5423.007	AV	39.18	32.10	16.74	43.37	2.26	46.91	53.9	6.9	100	327	VBW: 3.6 kHz *1)
Hori.	7700.001	AV	47.02	37.27	8.65	43.43	2.26	51.77	53.9	2.1	112	4	VBW: 3.6 kHz *1)
Vert.	5423.007	PK	48.32	32.10	16.74	43.37	2.26	56.05	73.9	17.8	291	281	-
Vert.	7700.001	PK	50.56	37.27	8.65	43.43	2.26	55.31	73.9	18.5	286	272	-
Vert.	5423.007	AV	38.72	32.10	16.74	43.37	2.26	46.45	53.9	7.4	291	281	VBW: 3.6 kHz *1)
Vert.	7700.001	AV	42.02	37.27	8.65	43.43	2.26	46.77	53.9	7.1	286	272	VBW: 3.6 kHz *1)

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

*1): Spurious emissions with the same Duty Cycle as the carrier.

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.18	32.42	16.89	43.50	2.26	57.25	-37.98	-27.0	10.9	100	327	-
Hori.	5700.000	PK	50.32	32.55	16.92	43.51	2.26	58.54	-36.69	10.0	46.6	100	327	-
Hori.	5720.000	PK	50.58	32.61	16.94	43.52	2.26	58.87	-36.36	15.6	51.9	100	327	-
Hori.	5724.148	PK	50.68	32.62	16.94	43.52	2.26	58.98	-36.25	25.1	61.3	100	327	-
Hori.	5725.000	PK	52.92	32.63	16.94	43.52	2.26	61.23	-34.00	27.0	61.0	100	327	-
Hori.	5850.000	PK	49.56	32.99	17.04	43.54	2.26	58.31	-36.92	27.0	63.9	100	327	-
Hori.	5855.000	PK	48.96	33.00	17.04	43.54	2.26	57.72	-37.51	15.6	53.1	100	327	-
Hori.	5871.000	PK	48.84	33.02	17.05	43.54	2.26	57.63	-37.60	11.2	48.7	100	327	-
Hori.	5875.000	PK	48.72	33.03	17.06	43.54	2.26	57.53	-37.70	10.0	47.7	100	327	-
Hori.	5925.000	PK	48.24	33.10	17.09	43.55	2.26	57.14	-38.09	-27.0	11.0	100	327	-
Vert.	5650.000	PK	48.22	32.42	16.89	43.50	2.26	56.29	-38.94	-27.0	11.9	291	281	-
Vert.	5700.000	PK	48.40	32.55	16.92	43.51	2.26	56.62	-38.61	10.0	48.6	291	281	-
Vert.	5720.000	PK	48.48	32.61	16.94	43.52	2.26	56.77	-38.46	15.6	54.0	291	281	-
Vert.	5724.148	PK	48.86	32.62	16.94	43.52	2.26	57.16	-38.07	25.1	63.1	291	281	-
Vert.	5725.000	PK	48.68	32.63	16.94	43.52	2.26	56.99	-38.24	27.0	65.2	291	281	-
Vert.	5850.000	PK	49.06	32.99	17.04	43.54	2.26	57.81	-37.42	27.0	64.4	291	281	-
Vert.	5855.000	PK	47.66	33.00	17.04	43.54	2.26	56.42	-38.81	15.6	54.4	291	281	-
Vert.	5871.000	PK	47.68	33.02	17.05	43.54	2.26	56.47	-38.76	11.2	49.9	291	281	-
Vert.	5875.000	PK	47.58	33.03	17.06	43.54	2.26	56.39	-38.84	10.0	48.8	291	281	-
Vert.	5925.000	PK	47.48	33.10	17.09	43.55	2.26	56.38	-38.85	-27.0	11.8	291	281	-

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

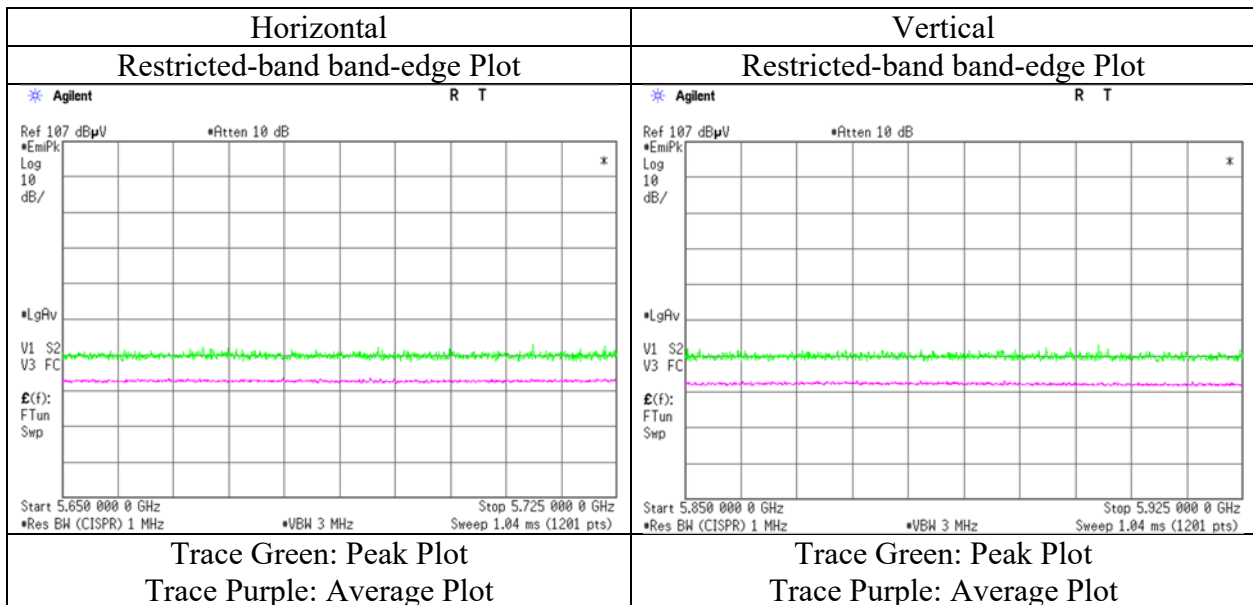
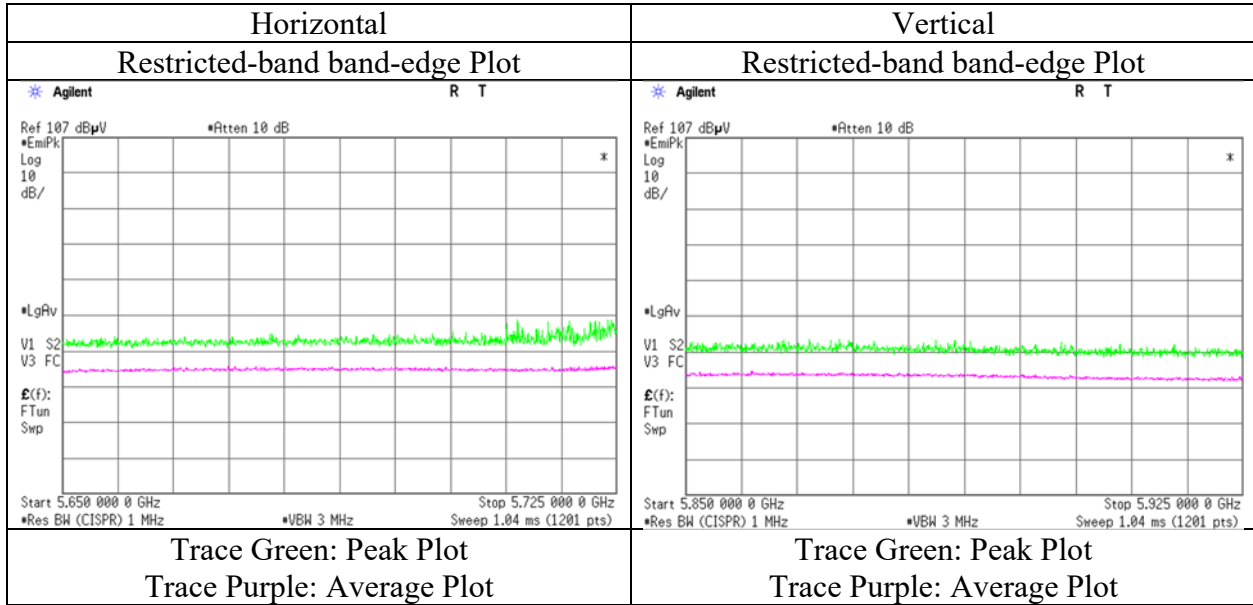
Result (EIRP [dBm]) = $10 * \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) * 10^{\wedge}(-6) * \text{Distance : 3 [m]})^2 / 30 * 10^{\wedge}3)$

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$ 10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	3
Date	June 18, 2022
Temperature / Humidity	24 deg.C, 54 %RH
Engineer	Kenichi Adachi
Mode	Tx 11ac-80 SDM, 5775 MHz with DH5 2441 MHz

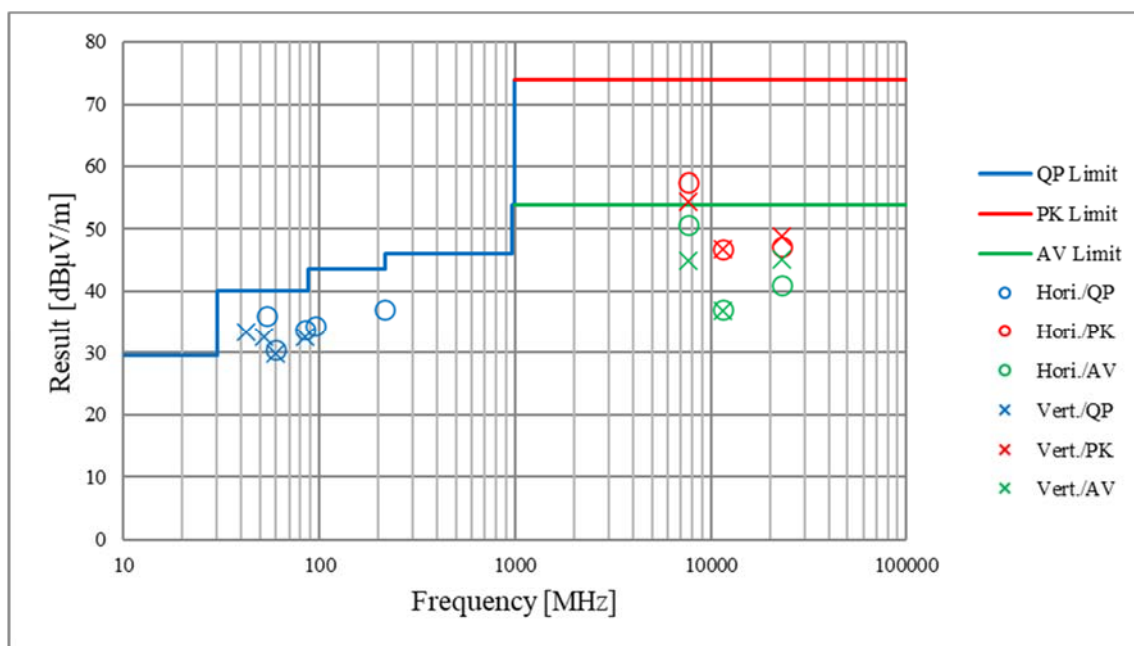


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

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

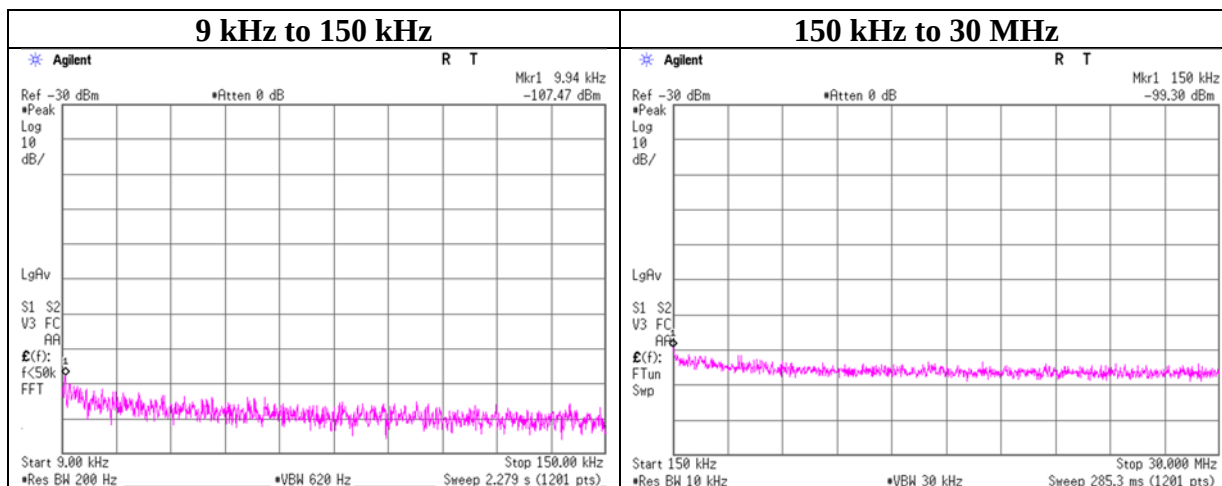
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	1	3	3
Date	June 19, 2022	June 18, 2022	June 17, 2022
Temperature / Humidity	22 deg.C, 59 %RH	24 deg.C, 54 %RH	24 deg.C, 45 %RH
Engineer	Yasumasa Owaki	Kenichi Adachi	Kouki Yamada
	(30 MHz -1 GHz)	(1 GHz -10 GHz)	(10 GHz -40 GHz)
Mode	Tx 11ac-40 CDD, 5755 MHz with DH5 2441 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 June 21, 2022
Temperature / Humidity 25 deg. C / 42 % RH
Engineer Kenichi Adachi
Mode Tx 11ac-40 SDM 5755 MHz



Frequency	Reading	Cable Loss	Attenuator	Antenna Gain	N	EIRP	Distance	Ground bounce	E	Limit	Margin	Remark
[kHz]	[dBm]	[dB]	[dB]	[dBi]	(Number of Output)	[dBm]	[m]	[dB]	(field strength) [dBuV/m]	[dBuV/m]	[dB]	
9.94	-107.5	1.01	9.8	5.0	2	-88.6	300	6.0	-27.4	47.6	75.0	-
150.00	-99.3	1.01	9.8	5.0	2	-80.5	300	6.0	-19.2	24.0	43.2	-

$E \text{ [dBuV/m]} = \text{EIRP [dBm]} - 20 \log (\text{Distance [m]}) + \text{Ground bounce [dB]} + 104.8 \text{ [dBuV/m]}$

$\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log (N)$

N: Number of output

APPENDIX 2: Test Instruments

Test Equipment (1/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	KTS-07	145111	Digital Tester	SANWA	PC500	7019232	2021/09/14	12
AT	SAT10-12	151609	Attenuator	Weinschel Corp.	54A-10	81601	2022/03/02	12
AT	SAT10-14	154591	Attenuator	Weinschel Corp.	54A-10	81595	2022/04/01	12
AT	SCC-G12	145040	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	2022/03/02	12
AT	SCC-G64	196945	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803414/2	2022/03/01	12
AT	SOS-27	191845	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2021/08/02	12
AT	SPM-13	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2022/01/25	12
AT	SPSS-06	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2022/01/25	12
AT	SPSS-07	169912	Power sensor	Keysight Technologies Inc	N1923A	MY57290005	2022/01/25	12
AT	SSA-03	145801	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250152	2021/08/09	12
AT	STM-G11	204923	Terminator	Weinschel - API Technologies Corp	M1459A	110101	2022/02/21	12
RE	COTS-SEMI-5	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3 (RE,CE,ME,PE)	-	-	-
RE	KAT6-04	144899	Attenuator	Inmet	18N-6dB	-	2021/12/10	12
RE	KFL-15	144938	Highpass Filter	MICRO-TRONICS	HPM50112	7	2021/10/05	12
RE	KJM-02	146432	Measure	TAJIMA	GL19-55	-	-	-
RE	KSA-08	145089	Spectrum Analyzer	Keysight Technologies Inc	E4446A	MY46180525	2021/10/13	12
RE	SAEC-01 (NSA)	145597	Semi-Anechoic Chamber	TDK	SAEC-01(NSA)	1	2022/04/11	12
RE	SAEC-03 (NSA)	145565	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	2022/04/15	12
RE	SAEC-03 (SVSWR)	145566	Semi-Anechoic Chamber	TDK	SAEC-03(SVSWR)	3	2022/05/18	12
RE	SAF-01	145003	Pre Amplifier	SONOMA	310N	290211	2022/02/24	12
RE	SAF-06	145005	Pre Amplifier	Toyo Corporation	TPA0118-36	1440491	2022/02/04	12
RE	SAF-08	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2022/03/03	12
RE	SAF-10	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	10	2022/03/03	12
RE	SAJ-03	146105	Antenna Tilt Jig	Intelligent System Engineering Co., Ltd	Antenna Tilt Jig	T-S003	-	-
RE	SAT10-05	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2021/10/07	12
RE	SAT3-09	144959	Attenuator	JFW	50HF-003N	-	2021/08/16	12
RE	SBA-01	145161	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	BBA9106	91032664	2022/04/16	12
RE	SCC-A1/A3/A5/A7/A8/A13/SR SE-01	144967	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	2022/04/20	12
RE	SCC-A2/A4/A6/A7/A8/A13/SR SE-01	144968	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	2022/04/20	12

Test Equipment (2/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	SCC-G15	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2022/03/03	12
RE	SCC-G40	166491	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S005	2022/01/06	12
RE	SCC-G43	156380	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	SN MY 13406/4E	2022/05/20	12
RE	SCC-G57	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2022/05/12	12
RE	SCC-G58	183047	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800287/4A	2022/05/20	12
RE	SCC-G70	200010	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	575618/4	2021/07/06	12
RE	SFL-03	145377	Highpass Filter	MICRO-TRONICS	HPM50112	28	2021/10/05	12
RE	SHA-03	145501	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-739	2022/03/16	12
RE	SHA-04	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2022/06/06	12
RE	SHA-06	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2022/06/06	12
RE	SHA-10	194685	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	711	2022/03/16	12
RE	SJM-22	207279	Measuring Tool, Tape Measure	ASKUL	-	-	-	-
RE	SLA-05	145527	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	193	2022/04/16	12
RE	SOS-20	191837	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2021/08/02	12
RE	SOS-23	191840	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2021/08/02	12
RE	STR-08	150463	Test Receiver	Rohde & Schwarz	ESW44	101581	2022/03/02	12
RE	STS-01	145792	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997812	2021/09/14	12
RE	STS-03	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2021/09/14	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:

RE: Radiated Emission

AT: Antenna Terminal Conducted test