

Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 16, 2024
Temperature / Humidity 20 deg. C / 40 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5795 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	49.98	34.18	15.46	45.53	2.26	56.35	-38.87	27.0	65.8	314	81	
Hori.	5855.000	PK	49.88	34.22	15.46	45.52	2.26	56.30	-38.92	15.6	54.5	314	81	
Hori.	5875.000	PK	50.52	34.36	15.48	45.50	2.26	57.12	-38.10	10.0	48.1	314	81	
Hori.	5925.000	PK	51.28	34.65	15.51	45.46	2.26	58.24	-36.98	-27.0	9.9	314	81	
Vert.	5850.000	PK	50.92	34.18	15.46	45.53	2.26	57.29	-37.93	27.0	64.9	357	0	
Vert.	5855.000	PK	51.08	34.22	15.46	45.52	2.26	57.50	-37.72	15.6	53.3	357	0	
Vert.	5875.000	PK	50.89	34.36	15.48	45.50	2.26	57.49	-37.73	10.0	47.7	357	0	
Vert.	5925.000	PK	51.43	34.65	15.51	45.46	2.26	58.39	-36.83	-27.0	9.8	357	0	

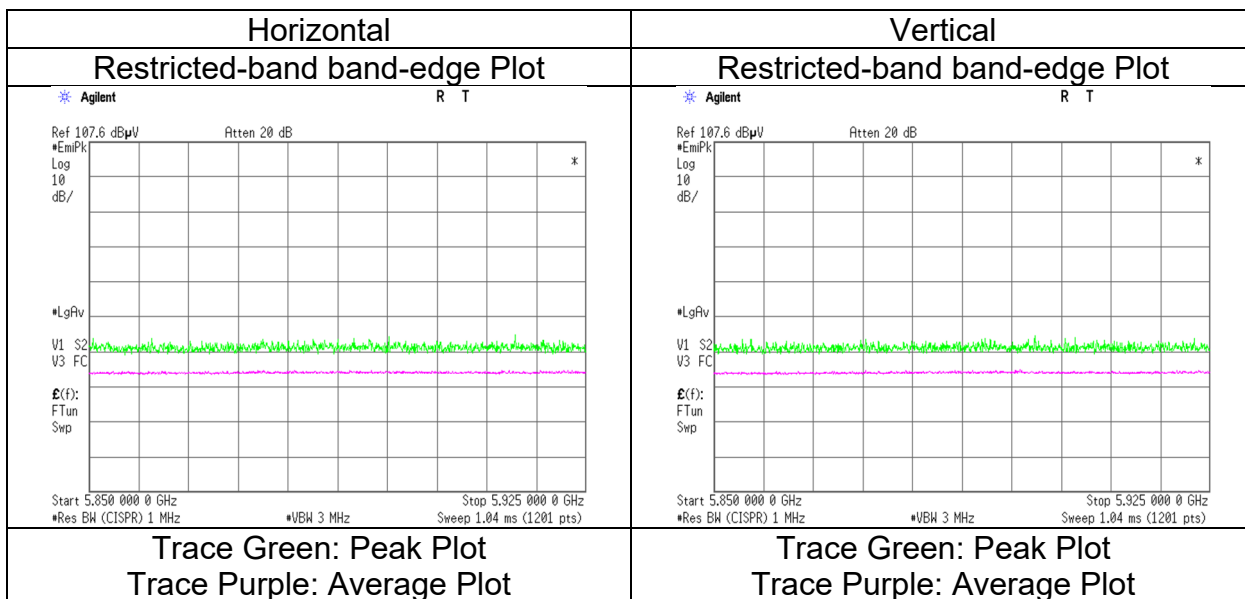
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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	Kashima EMC Lab.					
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11	No.11
Date	February 16, 2024	February 8, 2024	February 9, 2024	February 9, 2024	February 15, 2024	February 15, 2024
Temperature / Humidity	20 deg. C / 40 % RH	21 deg. C / 40 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	22 deg. C / 40 % RH	22 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe	Hiromitsu Tanabe
	(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)	(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 [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.81	32.60	15.04	45.81	2.26	55.90	73.9	18.0	341	343	
Hori.	15630.000	PK	48.26	38.35	10.03	42.24	-9.54	44.86	73.9	29.0	150	0	Floor noise
Hori.	20840.000	PK	44.21	-4.08	10.46	0.00	-9.54	41.05	73.9	32.8	150	0	Floor noise,*1)
Hori.	5150.000	AV	41.89	32.60	15.04	45.81	2.26	45.98	53.9	7.9	341	343	VBW:4.3 kHz
Hori.	15630.000	AV	37.97	38.35	10.03	42.24	-9.54	34.57	53.9	19.3	150	0	Floor noise
Hori.	20840.000	AV	33.32	-4.08	10.46	0.00	-9.54	30.16	53.9	23.7	150	0	Floor noise,*1)
Vert.	5150.000	PK	52.34	32.60	15.04	45.81	2.26	56.43	73.9	17.4	339	0	
Vert.	15630.000	PK	48.12	38.35	10.03	42.24	-9.54	44.72	73.9	29.1	150	0	Floor noise
Vert.	20840.000	PK	44.79	-4.08	10.46	0.00	-9.54	41.63	73.9	32.2	150	0	Floor noise,*1)
Vert.	5150.000	AV	41.83	32.60	15.04	45.81	2.26	45.92	53.9	7.9	339	0	VBW:4.3 kHz
Vert.	15630.000	AV	37.96	38.35	10.03	42.24	-9.54	34.56	53.9	19.3	150	0	Floor noise
Vert.	20840.000	AV	34.58	-4.08	10.46	0.00	-9.54	31.42	53.9	22.4	150	0	Floor noise,*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) Antenna factor includes amplifier gain

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10420.000	PK	47.87	38.53	8.11	43.14	-9.54	41.83	-53.39	-27.0	26.3	244	306	
Vert.	10420.000	PK	48.20	38.53	8.11	43.14	-9.54	42.16	-53.06	-27.0	26.0	262	312	

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

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

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

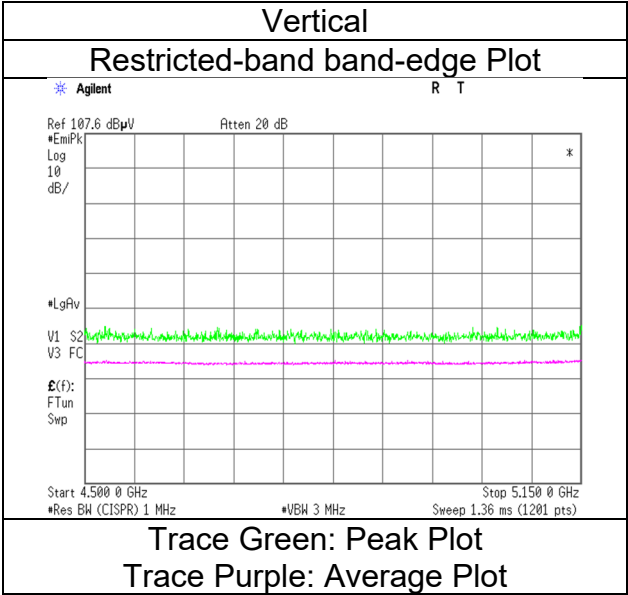
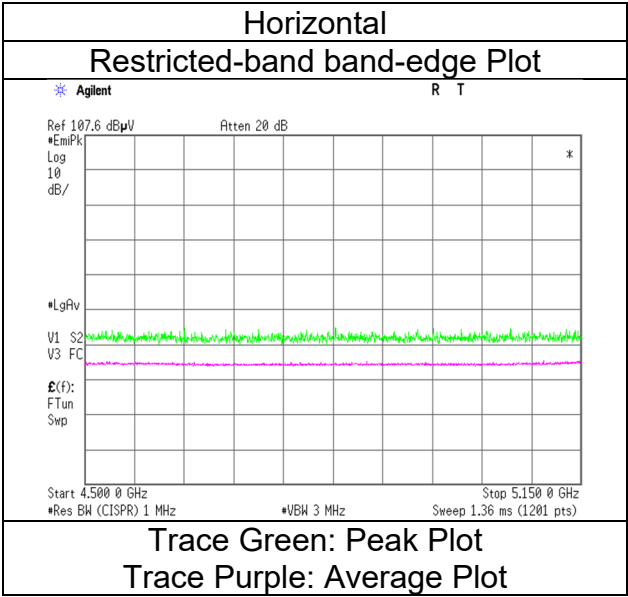
Distance factor : 1 GHz - 10 GHz : $20\log(3.89\text{ m} / 3.0\text{ m}) = 2.26\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Kashima EMC Lab.
No.11
February 16, 2024
20 deg. C / 40 % RH
Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
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	Kashima EMC Lab.				
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11
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Engineer	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe
	(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 [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	51.03	32.99	15.16	45.75	2.26	55.69	73.9	18.2	376	349	
Hori.	15870.000	PK	46.31	38.41	10.10	41.56	-9.54	43.72	73.9	30.1	150	0	Floor noise
Hori.	21160.000	PK	43.15	-4.37	10.54	0.00	-9.54	39.78	73.9	34.1	150	0	Floor noise,*1)
Hori.	5350.000	AV	40.27	32.99	15.16	45.75	2.26	44.93	53.9	8.9	376	349	VBW:4.3 kHz
Hori.	15870.000	AV	36.85	38.41	10.10	41.56	-9.54	34.26	53.9	19.6	150	0	Floor noise
Hori.	21160.000	AV	33.80	-4.37	10.54	0.00	-9.54	30.43	53.9	23.4	150	0	Floor noise,*1)
Vert.	5350.000	PK	51.18	32.99	15.16	45.75	2.26	55.84	73.9	18.0	333	0	
Vert.	15870.000	PK	47.26	38.41	10.10	41.56	-9.54	44.67	73.9	29.2	150	0	Floor noise
Vert.	21160.000	PK	43.67	-4.37	10.54	0.00	-9.54	40.30	73.9	33.6	150	0	Floor noise,*1)
Vert.	5350.000	AV	40.32	32.99	15.16	45.75	2.26	44.98	53.9	8.9	333	0	VBW:4.3 kHz
Vert.	15870.000	AV	36.95	38.41	10.10	41.56	-9.54	34.36	53.9	19.5	150	0	Floor noise
Vert.	21160.000	AV	34.38	-4.37	10.54	0.00	-9.54	31.01	53.9	22.8	150	0	Floor noise,*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) Antenna factor includes amplifier gain

(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.	10580.000	PK	48.13	38.74	8.18	43.10	-9.54	42.41	-52.81	-27.0	25.8	274	303	
Vert.	10580.000	PK	49.28	38.74	8.18	43.10	-9.54	43.56	-51.66	-27.0	24.6	273	291	

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

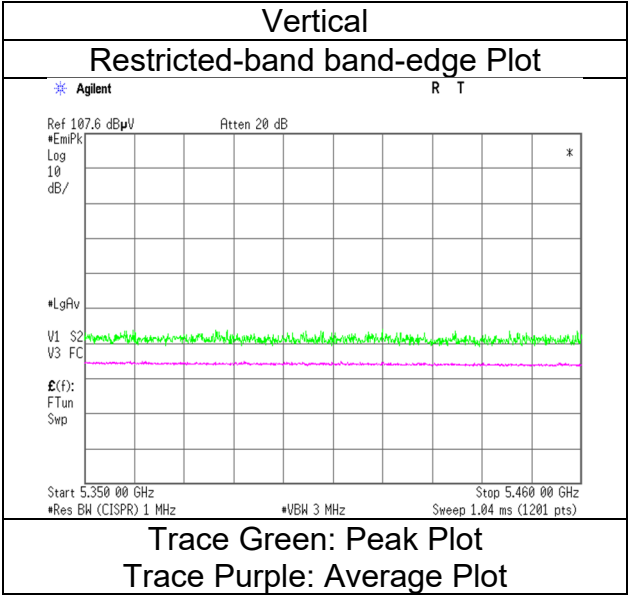
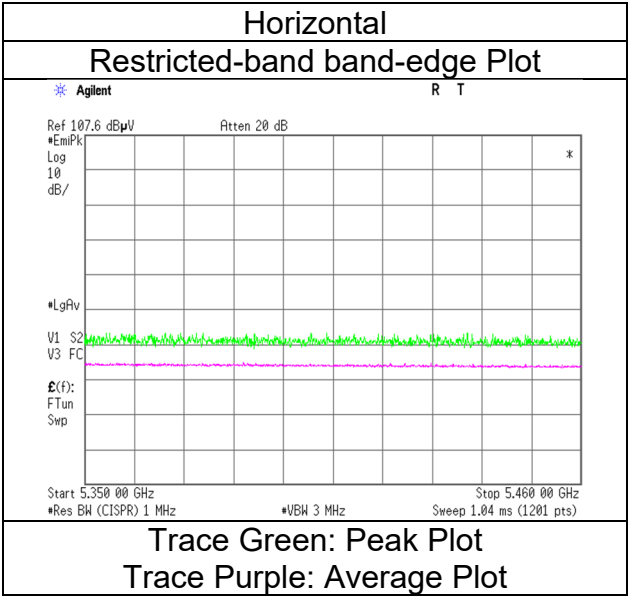
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Kashima EMC Lab.
No.11
February 16, 2024
20 deg. C / 40 % RH
Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
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	Kashima EMC Lab.					
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11	No.11
Date	February 16, 2024	February 8, 2024	February 9, 2024	February 9, 2024	February 9, 2024	February 15, 2024
Temperature / Humidity	20 deg. C / 40 % RH	21 deg. C / 40 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	22 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 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 [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	51.43	33.14	15.22	45.68	2.26	56.37	73.9	17.5	342	333	
Hori.	11060.000	PK	48.24	38.57	8.29	43.21	-9.54	42.35	73.9	31.5	290	295	
Hori.	22120.000	PK	44.37	-4.45	10.76	0.00	-9.54	41.14	73.9	32.7	150	0	Floor noise,*1)
Hori.	5460.000	AV	41.32	33.14	15.22	45.68	2.26	46.26	53.9	7.6	342	333	VBW:4.3 kHz
Hori.	11060.000	AV	38.01	38.57	8.29	43.21	-9.54	32.12	53.9	21.7	290	295	VBW:4.3 kHz
Hori.	22120.000	AV	33.80	-4.45	10.76	0.00	-9.54	30.57	53.9	23.3	150	0	Floor noise,*1)
Vert.	5460.000	PK	52.57	33.14	15.22	45.68	2.26	57.51	73.9	16.3	347	0	
Vert.	11060.000	PK	48.71	38.57	8.29	43.21	-9.54	42.82	73.9	31.0	255	294	
Vert.	22120.000	PK	43.88	-4.45	10.76	0.00	-9.54	40.65	73.9	33.2	150	0	Floor noise,*1)
Vert.	5460.000	AV	41.34	33.14	15.22	45.68	2.26	46.28	53.9	7.6	347	0	VBW:4.3 kHz
Vert.	11060.000	AV	38.14	38.57	8.29	43.21	-9.54	32.25	53.9	21.6	255	294	VBW:4.3 kHz
Vert.	22120.000	AV	33.78	-4.45	10.76	0.00	-9.54	30.55	53.9	23.3	150	0	Floor noise,*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) Antenna factor includes amplifier gain

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.50	33.17	15.23	45.68	2.26	56.48	-38.74	-27.0	11.7	342	333	
Hori.	16590.000	PK	47.96	40.21	10.30	42.36	-9.54	46.57	-48.65	-27.0	21.6	150	0	Floor noise
Vert.	5470.000	PK	51.90	33.17	15.23	45.68	2.26	56.88	-38.34	-27.0	11.3	347	0	
Vert.	16590.000	PK	47.35	40.21	10.30	42.36	-9.54	45.96	-49.26	-27.0	22.2	150	0	Floor noise

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

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

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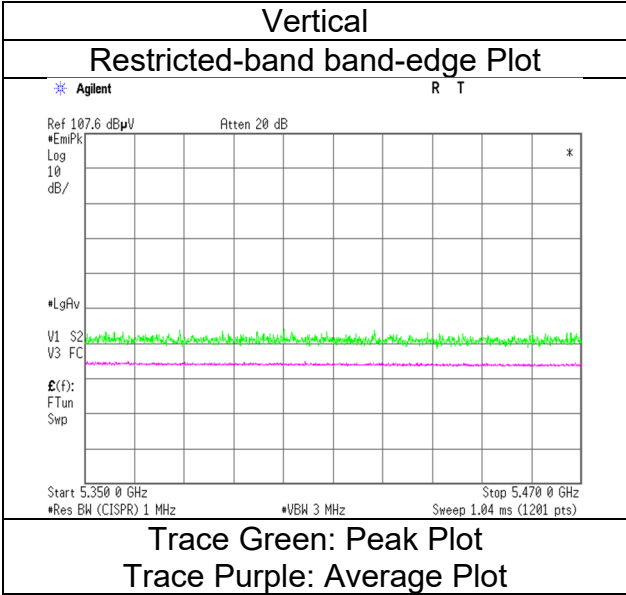
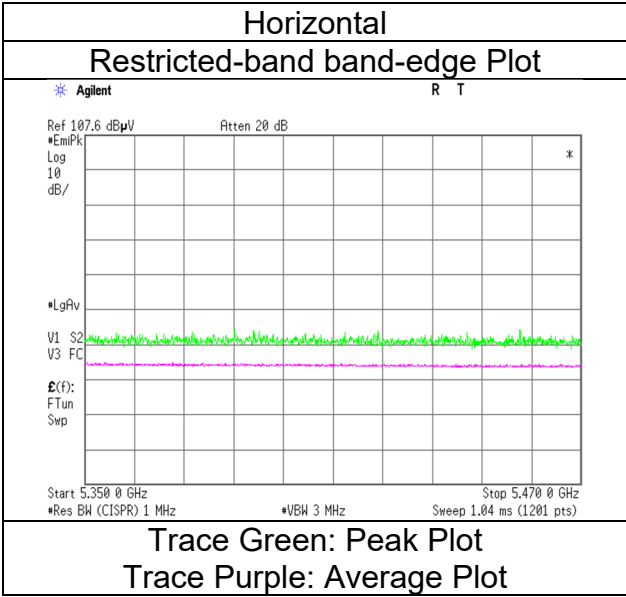
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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Temperature / Humidity	20 deg. C / 40 % RH	21 deg. C / 40 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	20 deg. C / 40 % RH	22 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 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)

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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.	11220.000	PK	49.50	38.58	8.34	43.20	-9.54	43.68	73.9	30.2	255	288	
Hori.	22440.000	PK	44.46	-4.14	10.85	0.00	-9.54	41.63	73.9	32.2	150	0	Floor noise,*1)
Hori.	11220.000	AV	38.65	38.58	8.34	43.20	-9.54	32.83	53.9	21.0	255	288	VBW:4.3 kHz
Hori.	22440.000	AV	34.00	-4.14	10.85	0.00	-9.54	31.17	53.9	22.7	150	0	Floor noise,*1)
Vert.	11220.000	PK	48.26	38.58	8.34	43.20	-9.54	42.44	73.9	31.4	249	309	
Vert.	22440.000	PK	44.71	-4.14	10.85	0.00	-9.54	41.88	73.9	32.0	150	0	Floor noise,*1)
Vert.	11220.000	AV	38.17	38.58	8.34	43.20	-9.54	32.35	53.9	21.5	249	309	VBW:4.3 kHz
Vert.	22440.000	AV	33.92	-4.14	10.85	0.00	-9.54	31.09	53.9	22.8	150	0	Floor noise,*1)

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

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*1) Antenna factor includes amplifier gain

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

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Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	52.02	33.64	15.39	45.70	2.26	57.61	-37.61	-27.0	10.6	366	336	
Hori.	16830.000	PK	47.78	40.74	10.36	41.94	-9.54	47.40	-47.82	-27.0	20.8	150	0	Floor noise
Vert.	5725.000	PK	51.82	33.64	15.39	45.70	2.26	57.41	-37.81	-27.0	10.8	372	15	
Vert.	16830.000	PK	48.31	40.74	10.36	41.94	-9.54	47.93	-47.29	-27.0	20.2	150	0	Floor noise

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

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

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

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

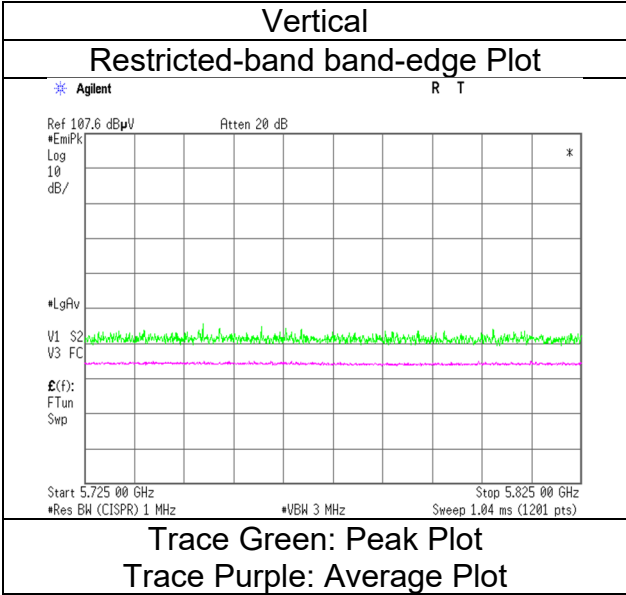
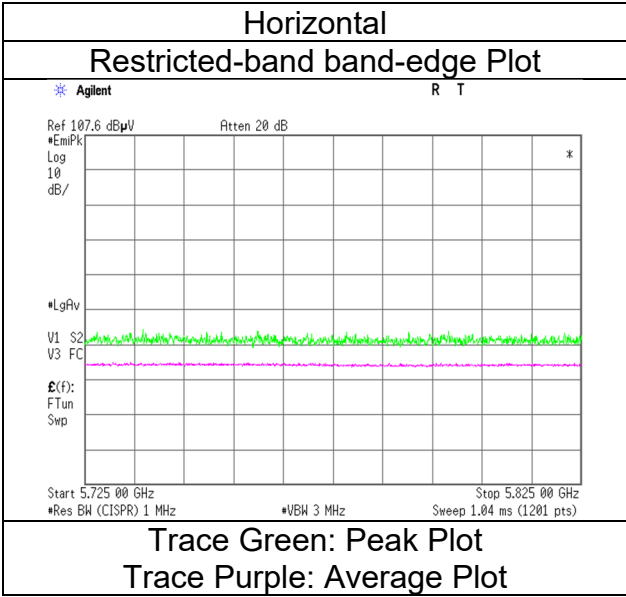
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Kashima EMC Lab.
No.11
February 16, 2024
20 deg. C / 40 % RH
Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
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	Kashima EMC Lab.					
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11	No.11
Date	February 16, 2024	February 8, 2024	February 9, 2024	February 9, 2024	February 9, 2024	February 15, 2024
Temperature / Humidity	20 deg. C / 40 % RH	21 deg. C / 40 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	20 deg. C / 38 % RH	22 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)	(6.4 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 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 [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11550.000	PK	49.60	38.70	8.42	43.36	-9.54	43.82	73.9	30.0	280	285	
Hori.	23100.000	PK	44.93	-3.55	11.01	0.00	-9.54	42.85	73.9	31.0	150	0	Floor noise,*1)
Hori.	11550.000	AV	40.05	38.70	8.42	43.36	-9.54	34.27	53.9	19.6	280	285	VBW:4.3 kHz
Hori.	23100.000	AV	35.59	-3.55	11.01	0.00	-9.54	33.51	53.9	20.3	150	0	Floor noise,*1)
Vert.	11550.000	PK	48.87	38.70	8.42	43.36	-9.54	43.09	73.9	30.8	290	302	
Vert.	23100.000	PK	45.45	-3.55	11.01	0.00	-9.54	43.37	73.9	30.5	150	0	Floor noise,*1)
Vert.	11550.000	AV	39.51	38.70	8.42	43.36	-9.54	33.73	53.9	20.1	290	302	VBW:4.3 kHz
Vert.	23100.000	AV	33.62	-3.55	11.01	0.00	-9.54	31.54	53.9	22.3	150	0	Floor noise,*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) Antenna factor includes amplifier gain

(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	52.74	33.39	15.34	45.73	2.26	58.00	-37.22	-27.0	10.2	340	80	
Hori.	5700.000	PK	52.84	33.53	15.37	45.72	2.26	58.28	-36.94	10.0	46.9	340	80	
Hori.	5720.000	PK	52.47	33.61	15.38	45.70	2.26	58.02	-37.20	15.6	52.8	340	80	
Hori.	5725.000	PK	52.37	33.64	15.39	45.70	2.26	57.96	-37.26	27.0	64.2	340	80	
Hori.	5850.000	PK	50.56	34.18	15.46	45.53	2.26	56.93	-38.29	27.0	65.2	340	80	
Hori.	5855.000	PK	50.09	34.22	15.46	45.52	2.26	56.51	-38.71	15.6	54.3	340	80	
Hori.	5875.000	PK	50.32	34.36	15.48	45.50	2.26	56.92	-38.30	10.0	48.3	340	80	
Hori.	5925.000	PK	52.13	34.65	15.51	45.46	2.26	59.09	-36.13	-27.0	9.1	340	80	
Hori.	17325.000	PK	49.15	41.44	10.58	42.63	-9.54	49.00	-46.22	-27.0	19.2	150	0	Floor noise
Vert.	5650.000	PK	51.86	33.39	15.34	45.73	2.26	57.12	-38.10	-27.0	11.1	345	0	
Vert.	5700.000	PK	52.09	33.53	15.37	45.72	2.26	57.53	-37.69	10.0	47.6	345	0	
Vert.	5720.000	PK	52.31	33.61	15.38	45.70	2.26	57.86	-37.36	15.6	52.9	345	0	
Vert.	5725.000	PK	55.08	33.64	15.39	45.70	2.26	60.67	-34.55	27.0	61.5	345	0	
Vert.	5850.000	PK	51.15	34.18	15.46	45.53	2.26	57.52	-37.70	27.0	64.7	345	0	
Vert.	5855.000	PK	50.05	34.22	15.46	45.52	2.26	56.47	-38.75	15.6	54.3	345	0	
Vert.	5875.000	PK	50.32	34.36	15.48	45.50	2.26	56.92	-38.30	10.0	48.3	345	0	
Vert.	5925.000	PK	51.54	34.65	15.51	45.46	2.26	58.50	-36.72	-27.0	9.7	345	0	
Vert.	17325.000	PK	48.49	41.44	10.58	42.63	-9.54	48.34	-46.88	-27.0	19.8	150	0	Floor noise

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

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

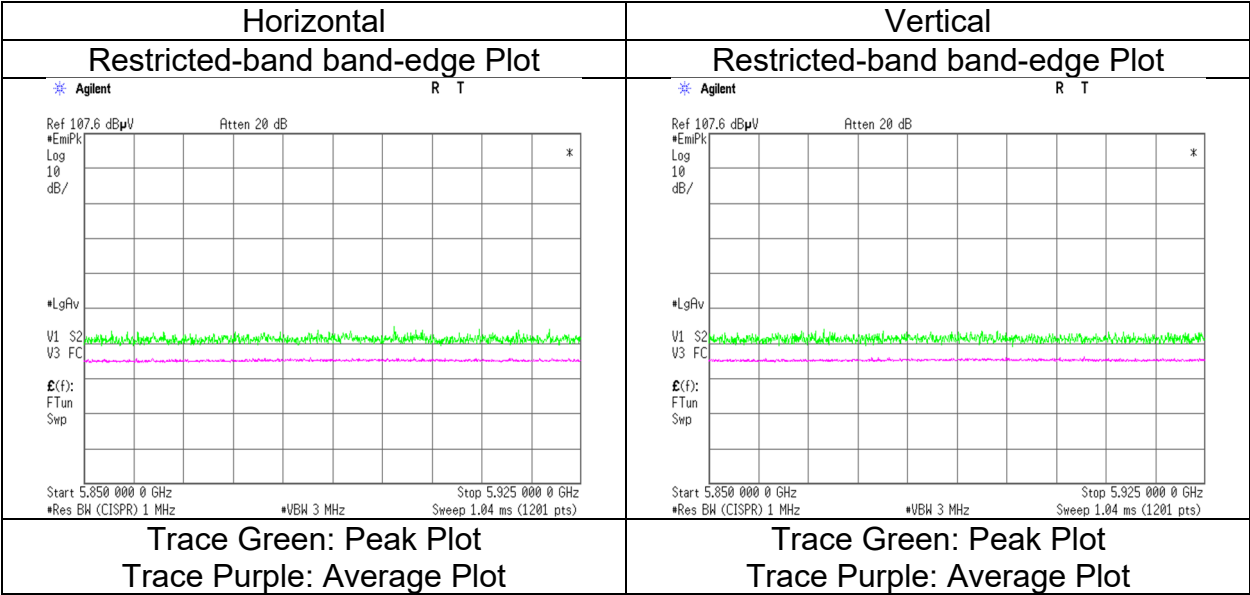
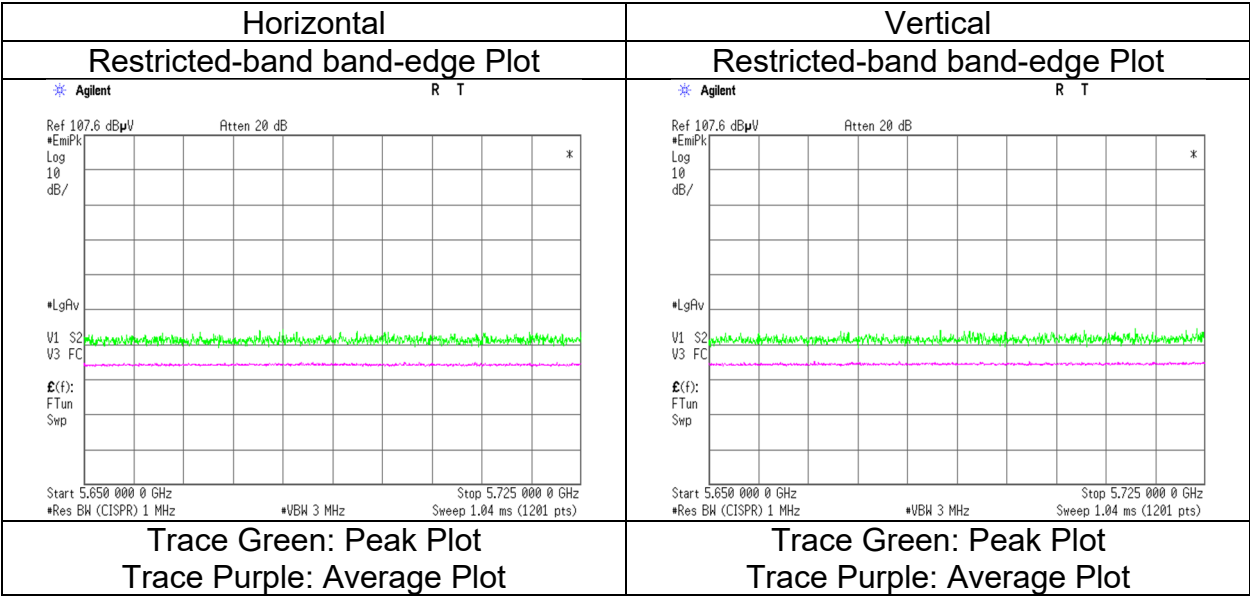
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

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

Radiated Spurious Emission

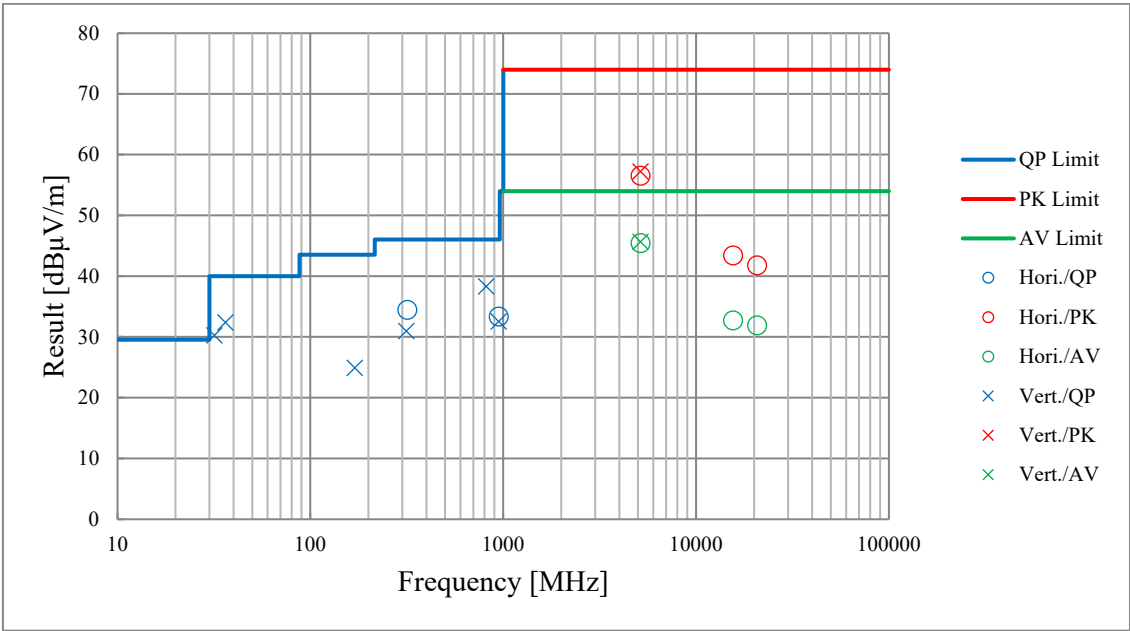
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 16, 2024
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-80 5775 MHz



* 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)

Test place	Kashima EMC Lab.					
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11	No.11
Date	February 23, 2024	February 14, 2024	February 8, 2024	February 9, 2024	February 11, 2024	February 15, 2024
Temperature / Humidity	19 deg. C / 42 % RH	24 deg. C / 41 % RH	21 deg. C / 40 % RH	20 deg. C / 38 % RH	20 deg. C / 37 % RH	22 deg. C / 40 % RH
Engineer	Hiromitsu Tanabe	Hiromitsu Tanabe	Kazuhiro Ando	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe
Mode	Tx 11a 5180 MHz					
	(30 MHz to 1 GHz)	(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)



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

Radiated Spurious Emission

Test place	Kashima EMC Lab.					
Semi Anechoic Chamber	No.11	No.11	No.11	No.11	No.11	No.11
Date	February 23, 2024	February 20, 2024	February 22, 2024	February 22, 2024	February 22, 2024	February 23, 2024
Temperature / Humidity	19 deg. C / 42 % RH	21 deg. C / 53 % RH	20 deg. C / 41 % RH	20 deg. C / 41 % RH	20 deg. C / 41 % RH	19 deg. C / 42 % RH
Engineer	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe
Mode	Tx 11a 5180 MHz with 11n-20 2462 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.	318.294	QP	44.30	13.99	7.71	31.94	0.00	34.06	46.0	11.9	150	306	
Hori.	947.828	QP	30.00	23.96	10.06	30.96	0.00	33.06	46.0	12.9	150	213	
Hori.	5150.000	PK	52.32	32.60	15.04	45.81	2.26	56.41	73.9	17.4	337	0	
Hori.	15540.000	PK	45.81	38.35	9.99	41.97	-9.54	42.64	73.9	31.2	150	0	Floor noise
Hori.	20720.000	PK	44.80	-3.86	10.43	0.00	-9.54	41.83	73.9	32.0	150	139	*1)
Hori.	5150.000	AV	40.90	32.60	15.04	45.81	2.26	44.99	53.9	8.9	337	0	VBW:2.2 kHz
Hori.	15540.000	AV	35.86	38.35	9.99	41.97	-9.54	32.69	53.9	21.2	150	0	Floor noise
Hori.	20720.000	AV	33.95	-3.86	10.43	0.00	-9.54	30.98	53.9	22.9	150	139	VBW:2.2 kHz,*1)
Vert.	31.827	QP	41.70	12.56	5.68	32.18	0.00	27.76	40.0	12.2	100	317	
Vert.	36.270	QP	46.00	12.91	5.74	32.17	0.00	32.48	40.0	7.5	100	261	
Vert.	170.000	QP	37.20	12.87	6.89	32.06	0.00	24.90	43.5	18.6	100	187	
Vert.	314.481	QP	41.30	13.90	7.69	31.94	0.00	30.95	46.0	15.0	100	165	
Vert.	816.000	QP	37.40	22.62	9.63	31.75	0.00	37.90	46.0	8.1	144	200	
Vert.	947.594	QP	29.40	23.95	10.06	30.96	0.00	32.45	46.0	13.5	158	307	
Vert.	2719.560	PK	59.46	28.81	13.47	45.80	2.26	58.20	73.9	15.7	156	348	
Vert.	5150.000	PK	52.56	32.60	15.04	45.81	2.26	56.65	73.9	17.2	342	351	
Vert.	15540.000	PK	46.12	38.35	9.99	41.97	-9.54	42.95	73.9	30.9	150	0	Floor noise
Vert.	20720.000	PK	44.56	-3.86	10.43	0.00	-9.54	41.59	73.9	32.3	175	342	*1)
Vert.	2719.560	AV	43.18	28.81	13.47	45.80	2.26	41.92	53.9	11.9	156	348	VBW:10 Hz
Vert.	5150.000	AV	40.96	32.60	15.04	45.81	2.26	45.05	53.9	8.8	342	351	VBW:2.2 kHz
Vert.	15540.000	AV	35.76	38.35	9.99	41.97	-9.54	32.59	53.9	21.3	150	0	Floor noise
Vert.	20720.000	AV	34.05	-3.86	10.43	0.00	-9.54	31.08	53.9	22.8	175	342	VBW:2.2 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) Antenna factor includes amplifier gain

(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.	10360.000	PK	50.68	38.52	8.08	43.12	-9.54	44.62	-50.60	-27.0	23.6	284	50	
Vert.	10360.000	PK	50.87	38.52	8.08	43.12	-9.54	44.81	-50.41	-27.0	23.4	255	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)

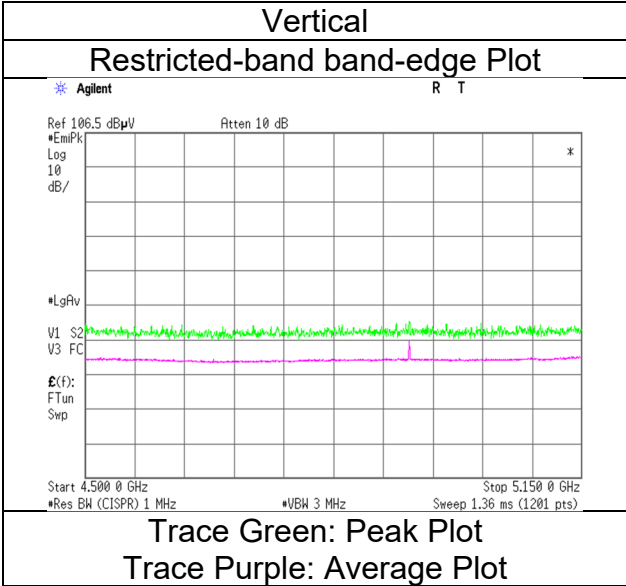
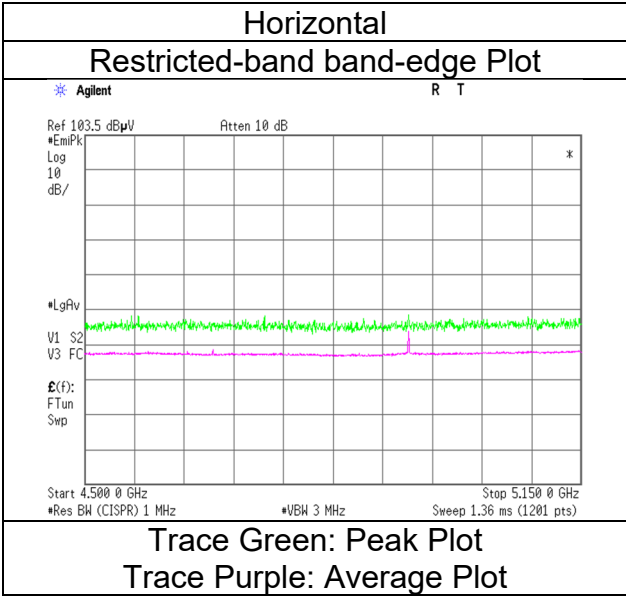
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 20, 2024
Temperature / Humidity	21 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)
Mode	Tx 11a 5180 MHz with 11n-20 2462 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
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Kashima EMC Lab.
No.11
February 20, 2024
21 deg. C / 53 % RH
Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Tx 11a 5320 MHz with 11n-20 2462 MHz

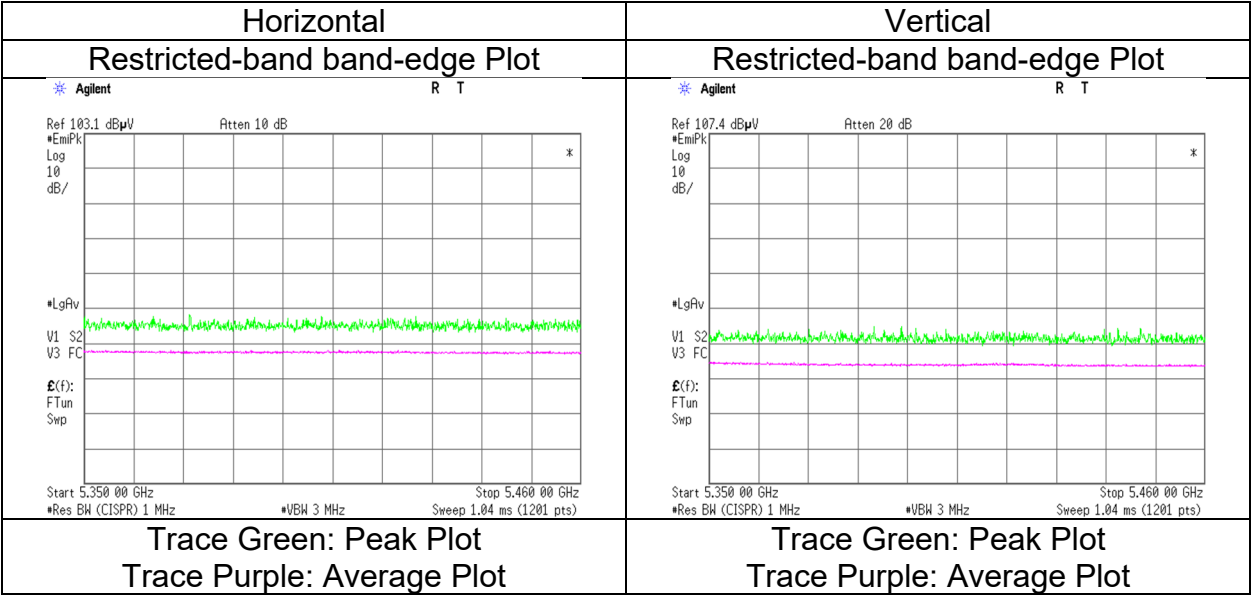
(above 1 GHz Inside of the restricted band)

(* 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.	5350.000	PK	50.84	32.99	15.16	45.75	2.26	55.50	73.9	18.4	377	4	VBW: 2.2 kHz
Hori.	5350.000	AV	39.60	32.99	15.16	45.75	2.26	44.26	53.9	9.6	377	4	
Vert.	5350.000	PK	51.64	32.99	15.16	45.75	2.26	56.30	73.9	17.6	343	349	VBW: 2.2 kHz
Vert.	5350.000	AV	40.21	32.99	15.16	45.75	2.26	44.87	53.9	9.0	343	349	

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



* 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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 20, 2024
Temperature / Humidity	21 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe (1 GHz to 6.4 GHz)
Mode	Tx 11a 5500 MHz with 11n-20 2462 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.	5460.000	PK	52.18	33.14	15.22	45.68	2.26	57.12	73.9	16.7	211	18	
Hori.	5460.000	AV	41.13	33.14	15.22	45.68	2.26	46.07	53.9	7.8	211	18	VBW: 2.2 kHz
Vert.	5460.000	PK	52.32	33.14	15.22	45.68	2.26	57.26	73.9	16.6	374	357	
Vert.	5460.000	AV	41.36	33.14	15.22	45.68	2.26	46.30	53.9	7.6	374	357	VBW: 2.2 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 : $20\log (3.89 \text{ m} / 3.0 \text{ m}) = 2.26 \text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remarks
Hori.	5470.000	PK	52.37	33.17	15.23	45.68	2.26	57.35	-37.87	-27.0	10.8	211	18	
Vert.	5470.000	PK	53.56	33.17	15.23	45.68	2.26	58.54	-36.68	-27.0	9.6	374	357	

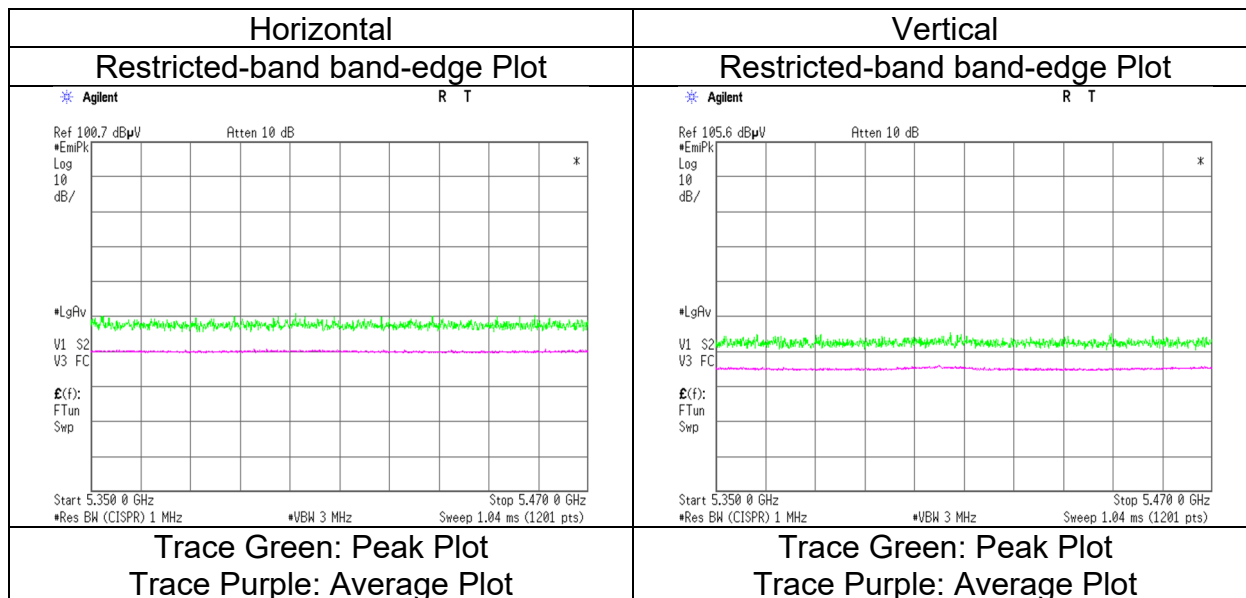
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11a 5700 MHz with 11n-20 2462 MHz

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

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

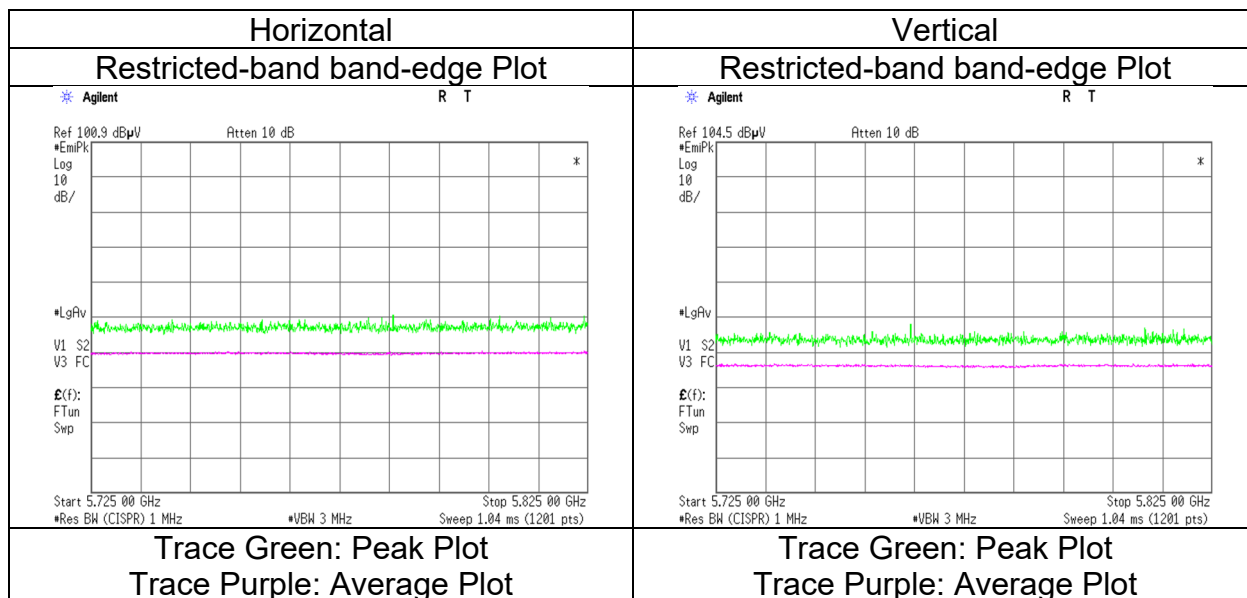
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	52.62	33.64	15.39	45.70	2.26	58.21	-37.01	-27.0	10.0	187	22	
Vert.	5725.000	PK	51.99	33.64	15.39	45.70	2.26	57.58	-37.64	-27.0	10.6	370	345	

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11a 5745 MHz with 11n-20 2462 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.	5650.000	PK	52.95	33.39	15.34	45.73	2.26	58.21	-37.01	-27.0	10.0	353	20	
Hori.	5700.000	PK	52.00	33.53	15.37	45.72	2.26	57.44	-37.78	10.0	47.7	353	20	
Hori.	5720.000	PK	52.24	33.61	15.38	45.70	2.26	57.79	-37.43	15.6	53.0	353	20	
Hori.	5725.000	PK	52.32	33.64	15.39	45.70	2.26	57.91	-37.31	27.0	64.3	353	20	
Vert.	5650.000	PK	53.09	33.39	15.34	45.73	2.26	58.35	-36.87	-27.0	9.8	334	359	
Vert.	5700.000	PK	52.33	33.53	15.37	45.72	2.26	57.77	-37.45	10.0	47.4	334	359	
Vert.	5720.000	PK	52.45	33.61	15.38	45.70	2.26	58.00	-37.22	15.6	52.8	334	359	
Vert.	5725.000	PK	52.65	33.64	15.39	45.70	2.26	58.24	-36.98	27.0	63.9	334	359	

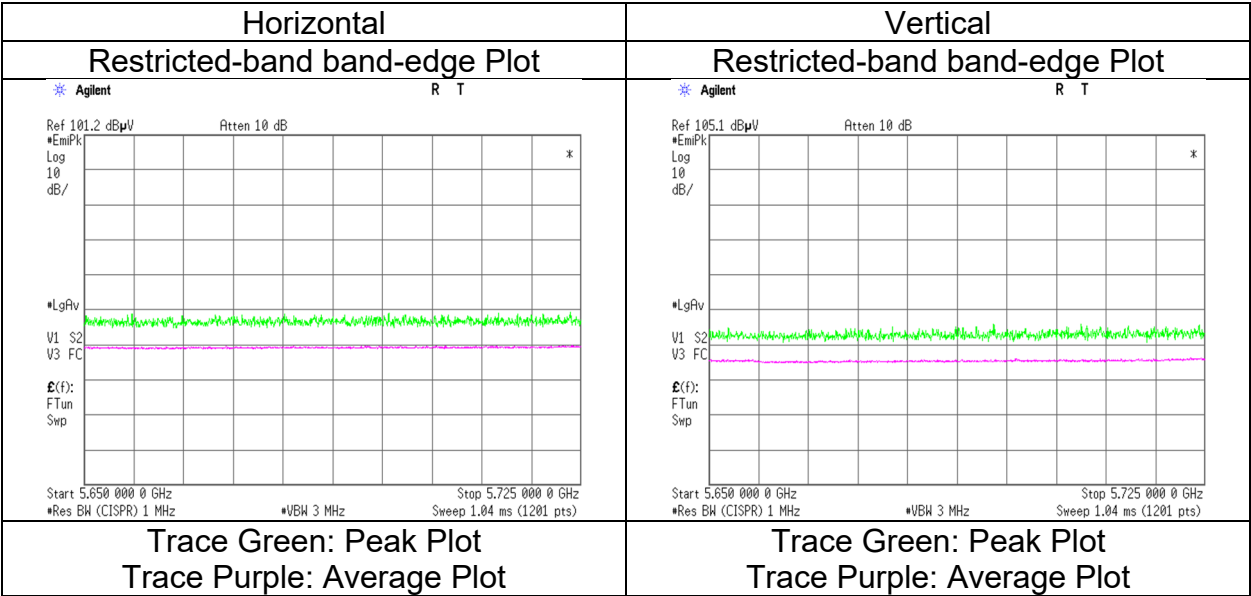
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11a 5825 MHz with 11n-20 2462 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	50.83	34.18	15.46	45.53	2.26	57.20	-38.02	27.0	65.0	353	13	
Hori.	5855.000	PK	50.90	34.22	15.46	45.52	2.26	57.32	-37.90	15.6	53.5	353	13	
Hori.	5875.000	PK	50.95	34.36	15.48	45.50	2.26	57.55	-37.67	10.0	47.6	353	13	
Hori.	5925.000	PK	51.31	34.65	15.51	45.46	2.26	58.27	-36.95	-27.0	9.9	353	13	
Vert.	5850.000	PK	50.83	34.18	15.46	45.53	2.26	57.20	-38.02	27.0	65.0	352	0	
Vert.	5855.000	PK	51.21	34.22	15.46	45.52	2.26	57.63	-37.59	15.6	53.1	352	0	
Vert.	5875.000	PK	50.92	34.36	15.48	45.50	2.26	57.52	-37.70	10.0	47.7	352	0	
Vert.	5925.000	PK	51.74	34.65	15.51	45.46	2.26	58.70	-36.52	-27.0	9.5	352	0	

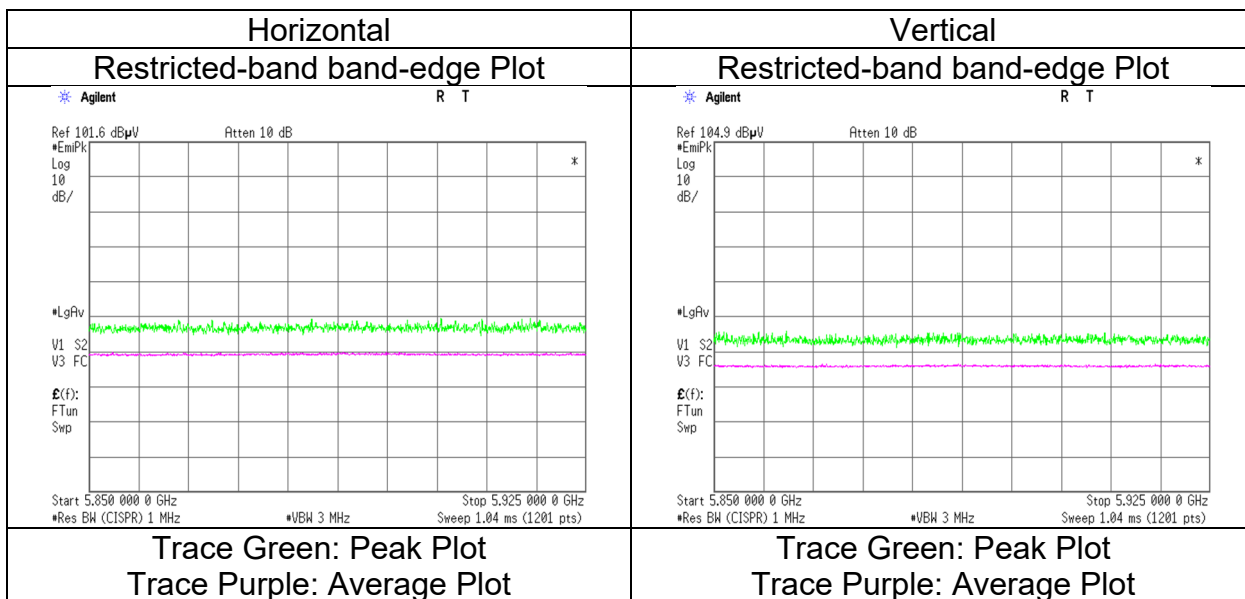
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5180 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

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

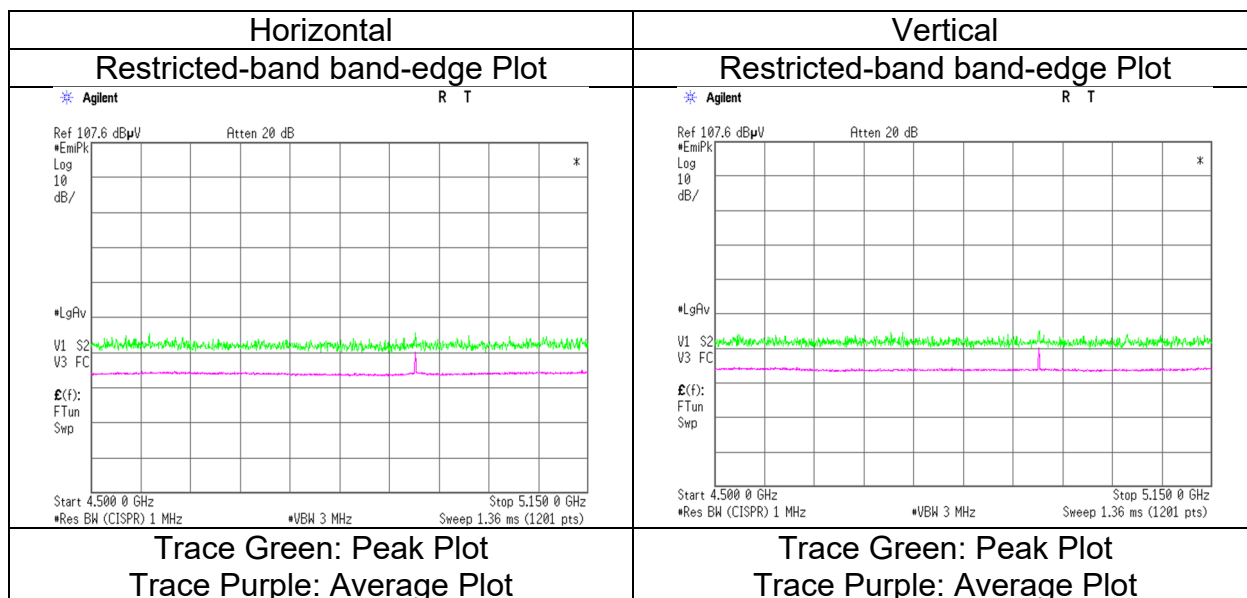
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.94	32.60	15.04	45.81	2.26	56.03	73.9	17.8	355	4	VBW: 2.4 kHz
Hori.	5150.000	AV	41.00	32.60	15.04	45.81	2.26	45.09	53.9	8.8	355	4	
Vert.	5150.000	PK	52.63	32.60	15.04	45.81	2.26	56.72	73.9	17.1	252	347	VBW: 2.4 kHz
Vert.	5150.000	AV	41.03	32.60	15.04	45.81	2.26	45.12	53.9	8.7	252	347	

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



* 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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 20, 2024
Temperature / Humidity	21 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe (1 GHz to 6.4 GHz)
Mode	Tx 11ac-20 5320 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

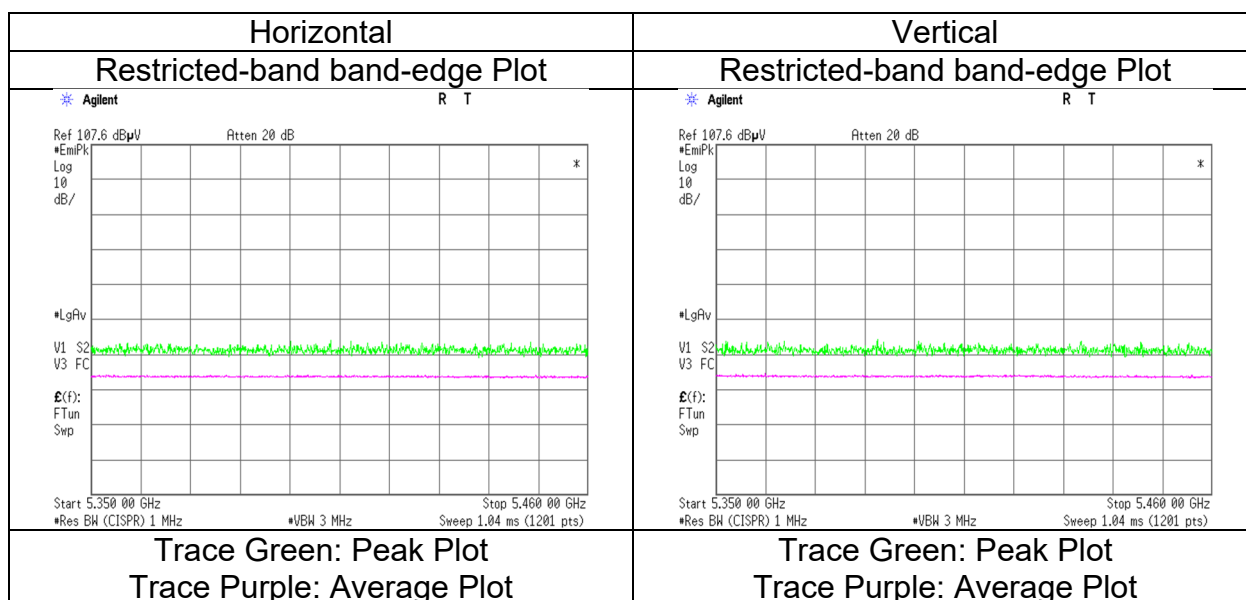
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	5350.000	PK	51.30	32.99	15.16	45.75	2.26	55.96	73.9	17.9	358	0	
Hori.	5350.000	AV	39.84	32.99	15.16	45.75	2.26	44.50	53.9	9.4	358	0	VBW: 2.4 kHz
Vert.	5350.000	PK	51.45	32.99	15.16	45.75	2.26	56.11	73.9	17.7	385	348	
Vert.	5350.000	AV	39.94	32.99	15.16	45.75	2.26	44.60	53.9	9.3	385	348	VBW: 2.4 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 : $20\log (3.89 \text{ m} / 3.0 \text{ m}) = 2.26 \text{ dB}$

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


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

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

Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5500 MHz with 11n-20 2462 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.	5460.000	PK	51.73	33.14	15.22	45.68	2.26	56.67	73.9	17.2	210	18	VBW: 2.4 kHz
Hori.	5460.000	AV	41.36	33.14	15.22	45.68	2.26	46.30	53.9	7.6	210	18	
Vert.	5460.000	PK	52.04	33.14	15.22	45.68	2.26	56.98	73.9	16.9	338	0	VBW: 2.4 kHz
Vert.	5460.000	AV	41.19	33.14	15.22	45.68	2.26	46.13	53.9	7.7	338	0	

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.95	33.17	15.23	45.68	2.26	56.93	-38.29	-27.0	11.2	210	18	
Vert.	5470.000	PK	52.26	33.17	15.23	45.68	2.26	57.24	-37.98	-27.0	10.9	338	0	

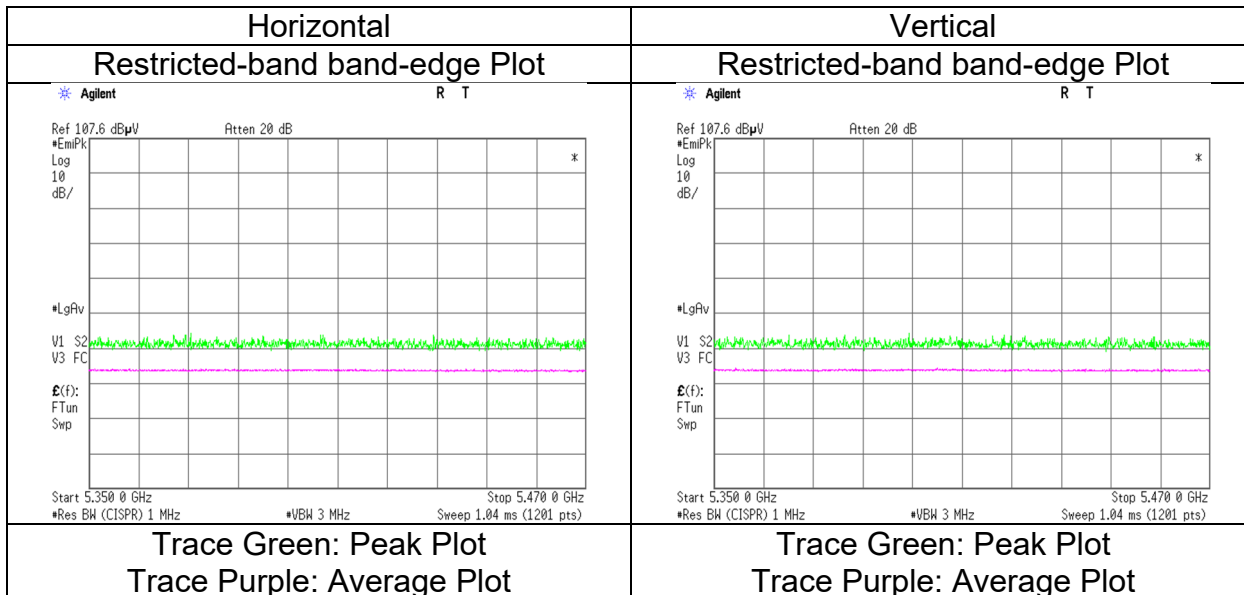
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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



* 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.

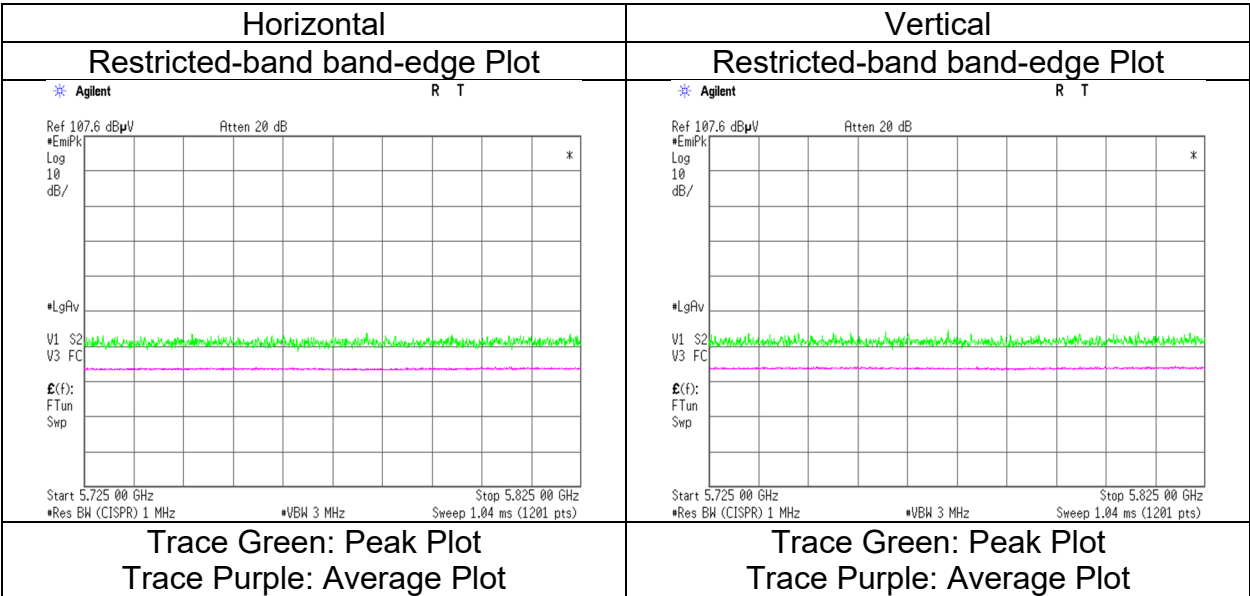
Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5700 MHz with 11n-20 2462 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.	5725.000	PK	51.54	33.64	15.39	45.70	2.26	57.13	-38.09	-27.0	11.0	221	19	
Vert.	5725.000	PK	51.97	33.64	15.39	45.70	2.26	57.56	-37.66	-27.0	10.6	355	345	

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5745 MHz with 11n-20 2462 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.	5650.000	PK	51.87	33.39	15.34	45.73	2.26	57.13	-38.09	-27.0	11.0	370	20	
Hori.	5700.000	PK	52.08	33.53	15.37	45.72	2.26	57.52	-37.70	10.0	47.7	370	20	
Hori.	5720.000	PK	52.10	33.61	15.38	45.70	2.26	57.65	-37.57	15.6	53.1	370	20	
Hori.	5725.000	PK	52.13	33.64	15.39	45.70	2.26	57.72	-37.50	27.0	64.5	370	20	
Vert.	5650.000	PK	52.01	33.39	15.34	45.73	2.26	57.27	-37.95	-27.0	10.9	328	359	
Vert.	5700.000	PK	52.10	33.53	15.37	45.72	2.26	57.54	-37.68	10.0	47.6	328	359	
Vert.	5720.000	PK	52.49	33.61	15.38	45.70	2.26	58.04	-37.18	15.6	52.7	328	359	
Vert.	5725.000	PK	52.09	33.64	15.39	45.70	2.26	57.68	-37.54	27.0	64.5	328	359	

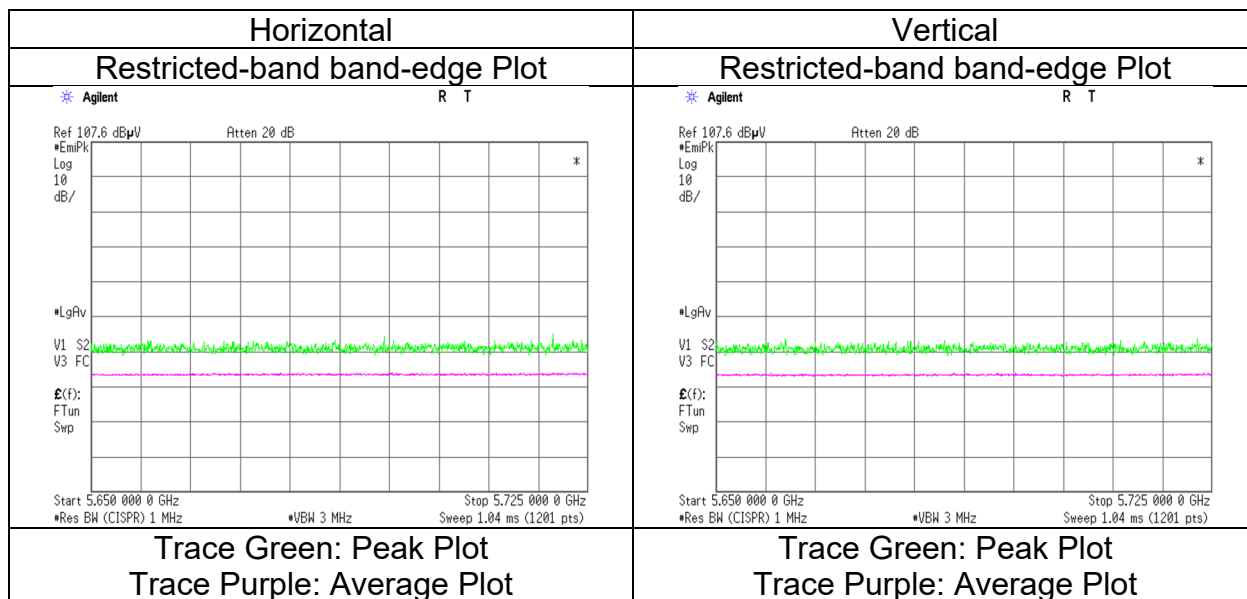
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-20 5825 MHz with 11n-20 2462 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	50.70	34.18	15.46	45.53	2.26	57.07	-38.15	27.0	65.1	358	18	
Hori.	5855.000	PK	51.25	34.22	15.46	45.52	2.26	57.67	-37.55	15.6	53.1	358	18	
Hori.	5875.000	PK	50.87	34.36	15.48	45.50	2.26	57.47	-37.75	10.0	47.7	358	18	
Hori.	5925.000	PK	52.50	34.65	15.51	45.46	2.26	59.46	-35.76	-27.0	8.7	358	18	
Vert.	5850.000	PK	51.26	34.18	15.46	45.53	2.26	57.63	-37.59	27.0	64.5	352	0	
Vert.	5855.000	PK	50.98	34.22	15.46	45.52	2.26	57.40	-37.82	15.6	53.4	352	0	
Vert.	5875.000	PK	52.09	34.36	15.48	45.50	2.26	58.69	-36.53	10.0	46.5	352	0	
Vert.	5925.000	PK	51.74	34.65	15.51	45.46	2.26	58.70	-36.52	-27.0	9.5	352	0	

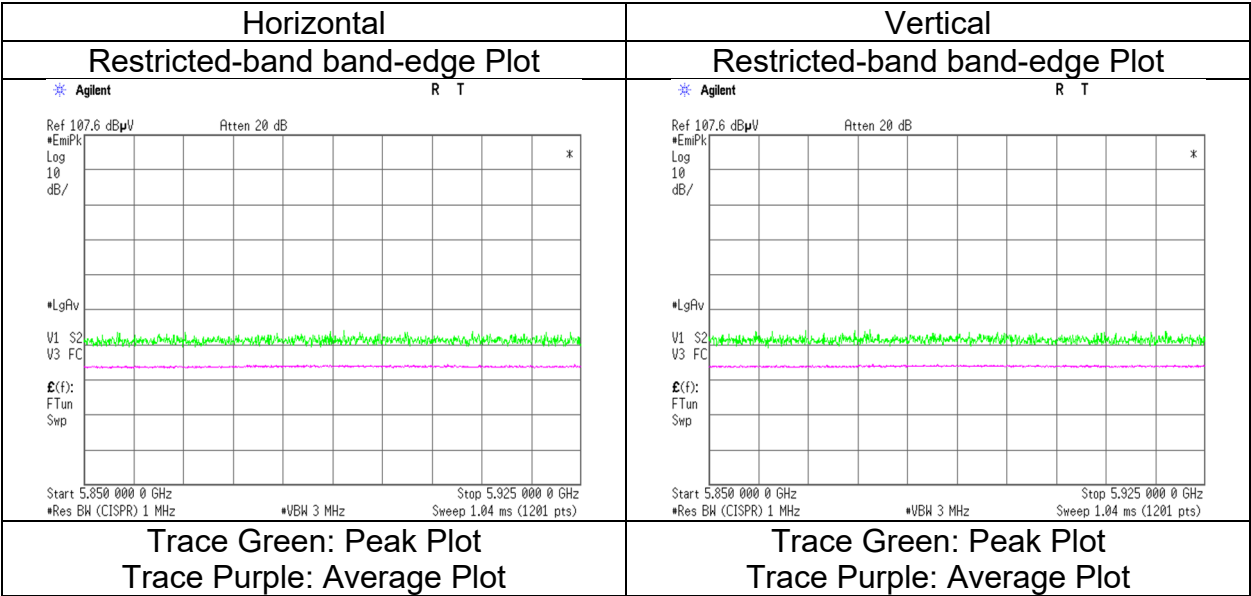
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5190 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

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

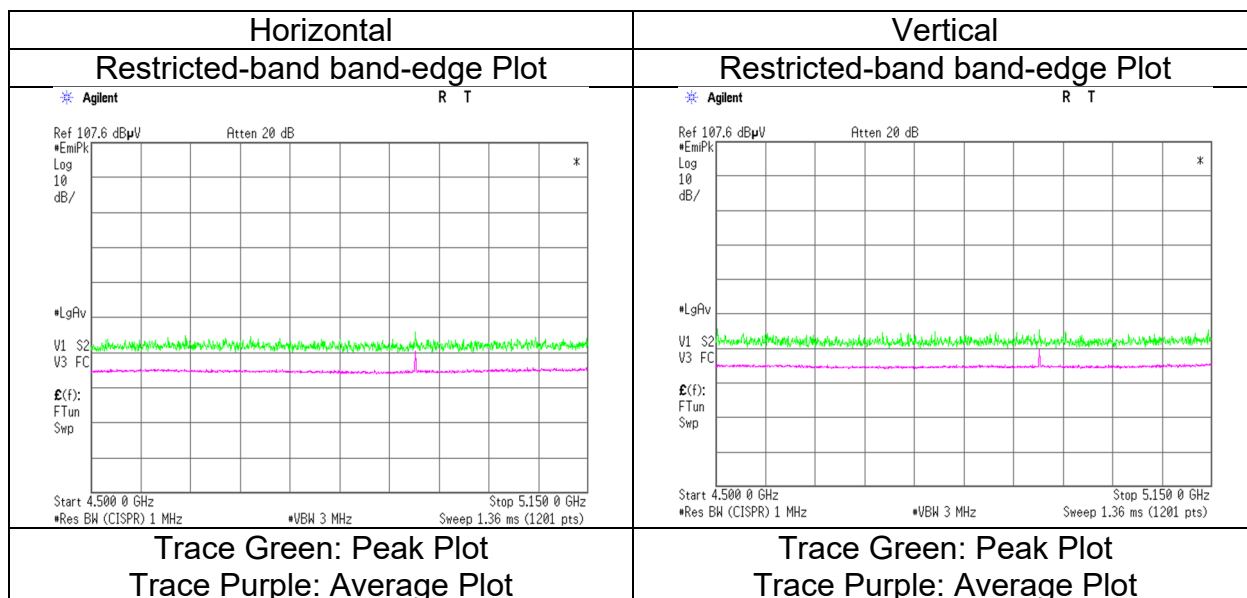
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	52.07	32.60	15.04	45.81	2.26	56.16	73.9	17.7	315	4	VBW: 5.6 kHz
Hori.	5150.000	AV	42.03	32.60	15.04	45.81	2.26	46.12	53.9	7.7	315	4	
Vert.	5150.000	PK	52.39	32.60	15.04	45.81	2.26	56.48	73.9	17.4	307	349	
Vert.	5150.000	AV	42.20	32.60	15.04	45.81	2.26	46.29	53.9	7.6	307	349	

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



* 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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 20, 2024
Temperature / Humidity	21 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe (1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5310 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

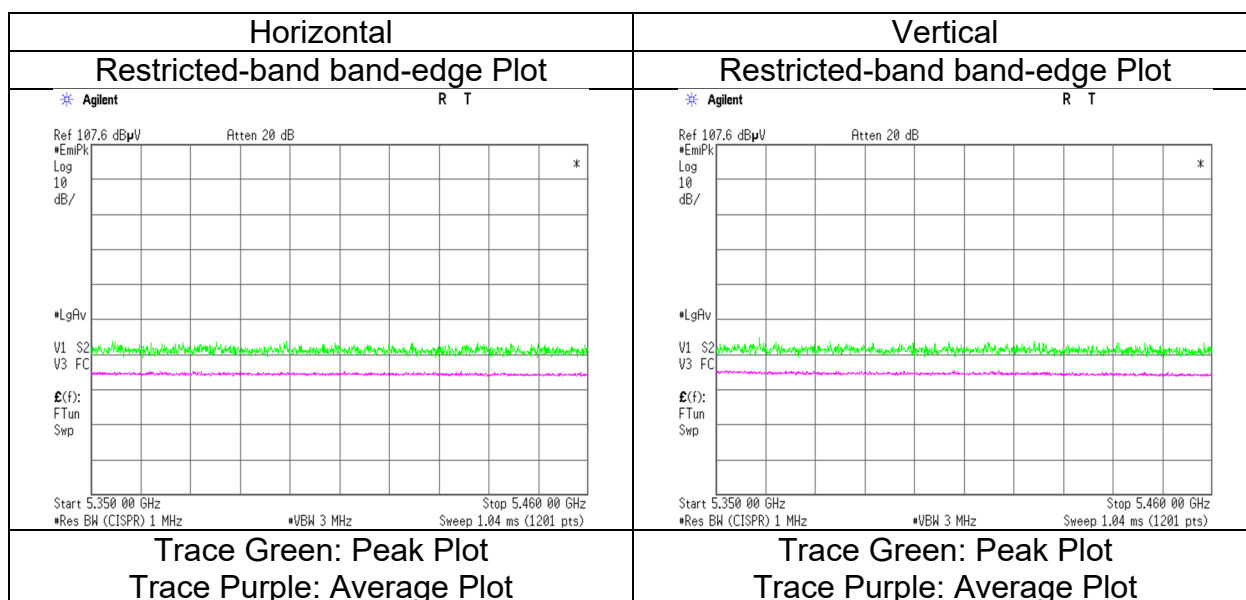
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	5350.000	PK	50.60	32.99	15.16	45.75	2.26	55.26	73.9	18.6	377	5	
Hori.	5350.000	AV	40.73	32.99	15.16	45.75	2.26	45.39	53.9	8.5	377	5	VBW: 5.6 kHz
Vert.	5350.000	PK	51.39	32.99	15.16	45.75	2.26	56.05	73.9	17.8	346	351	
Vert.	5350.000	AV	41.34	32.99	15.16	45.75	2.26	46.00	53.9	7.9	346	351	VBW: 5.6 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 : $20\log (3.89 \text{ m} / 3.0 \text{ m}) = 2.26 \text{ dB}$

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


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

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

Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 20, 2024
Temperature / Humidity 21 deg. C / 53 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5510 MHz with 11n-20 2462 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.	5460.000	PK	52.17	33.14	15.22	45.68	2.26	57.11	73.9	16.7	239	20	VBW: 5.6 kHz
Hori.	5460.000	AV	41.93	33.14	15.22	45.68	2.26	46.87	53.9	7.0	239	20	
Vert.	5460.000	PK	52.31	33.14	15.22	45.68	2.26	57.25	73.9	16.6	374	358	VBW: 5.6 kHz
Vert.	5460.000	AV	42.11	33.14	15.22	45.68	2.26	47.05	53.9	6.8	374	358	

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	52.74	33.17	15.23	45.68	2.26	57.72	-37.50	-27.0	10.5	239	20	
Vert.	5470.000	PK	52.20	33.17	15.23	45.68	2.26	57.18	-38.04	-27.0	11.0	374	358	

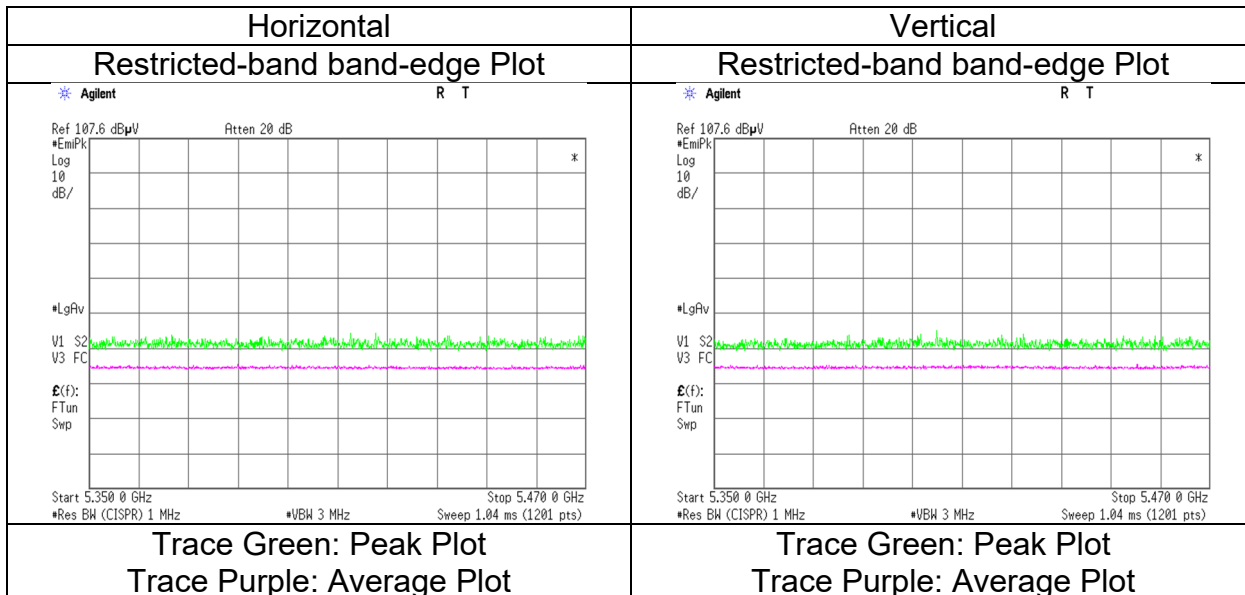
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 20, 2024
Temperature / Humidity	21 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe (1 GHz to 6.4 GHz)
Mode	Tx 11n-40 5670 MHz with 11n-20 2462 MHz

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

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

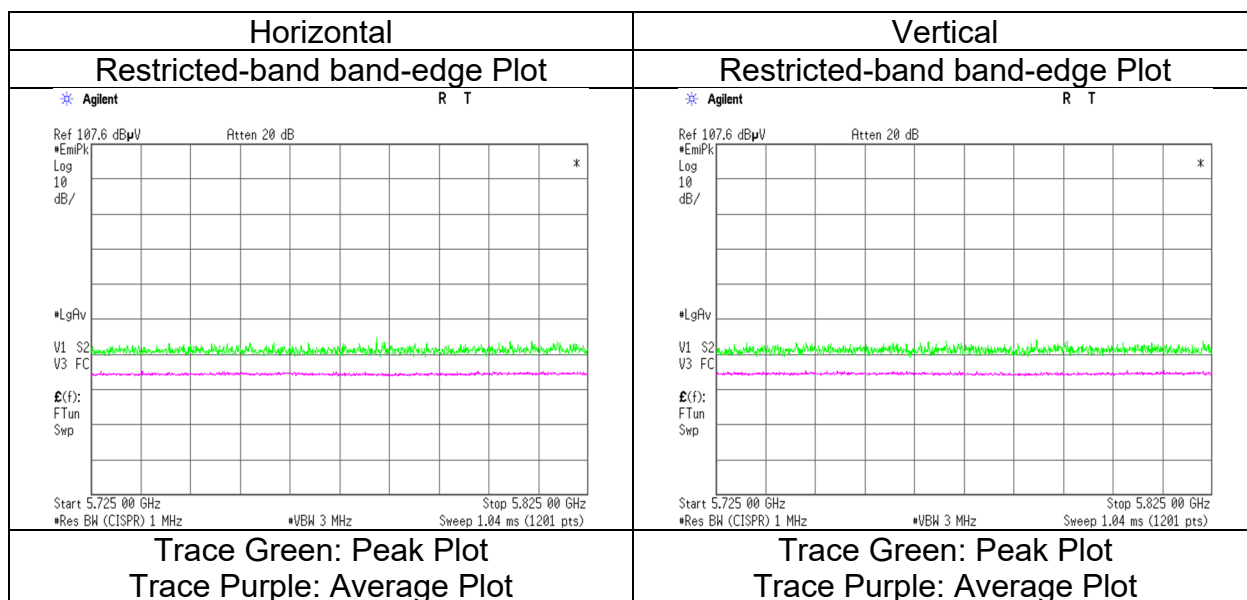
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remarks
Hori.	5725.000	PK	51.71	33.64	15.39	45.70	2.26	57.30	-37.92	-27.0	10.9	196	22	
Vert.	5725.000	PK	52.44	33.64	15.39	45.70	2.26	58.03	-37.19	-27.0	10.1	390	344	

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

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

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

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

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


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

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

Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11n-40 5755 MHz with 11n-20 2462 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.	5650.000	PK	50.83	33.39	15.34	45.73	2.26	56.09	-39.13	-27.0	12.1	283	293	
Hori.	5700.000	PK	51.75	33.53	15.37	45.72	2.26	57.19	-38.03	10.0	48.0	283	293	
Hori.	5720.000	PK	51.94	33.61	15.38	45.70	2.26	57.49	-37.73	15.6	53.3	283	293	
Hori.	5725.000	PK	52.22	33.64	15.39	45.70	2.26	57.81	-37.41	27.0	64.4	283	293	
Vert.	5650.000	PK	51.14	33.39	15.34	45.73	2.26	56.40	-38.82	-27.0	11.8	298	359	
Vert.	5700.000	PK	52.43	33.53	15.37	45.72	2.26	57.87	-37.35	10.0	47.3	298	359	
Vert.	5720.000	PK	51.66	33.61	15.38	45.70	2.26	57.21	-38.01	15.6	53.6	298	359	
Vert.	5725.000	PK	52.15	33.64	15.39	45.70	2.26	57.74	-37.48	27.0	64.4	298	359	

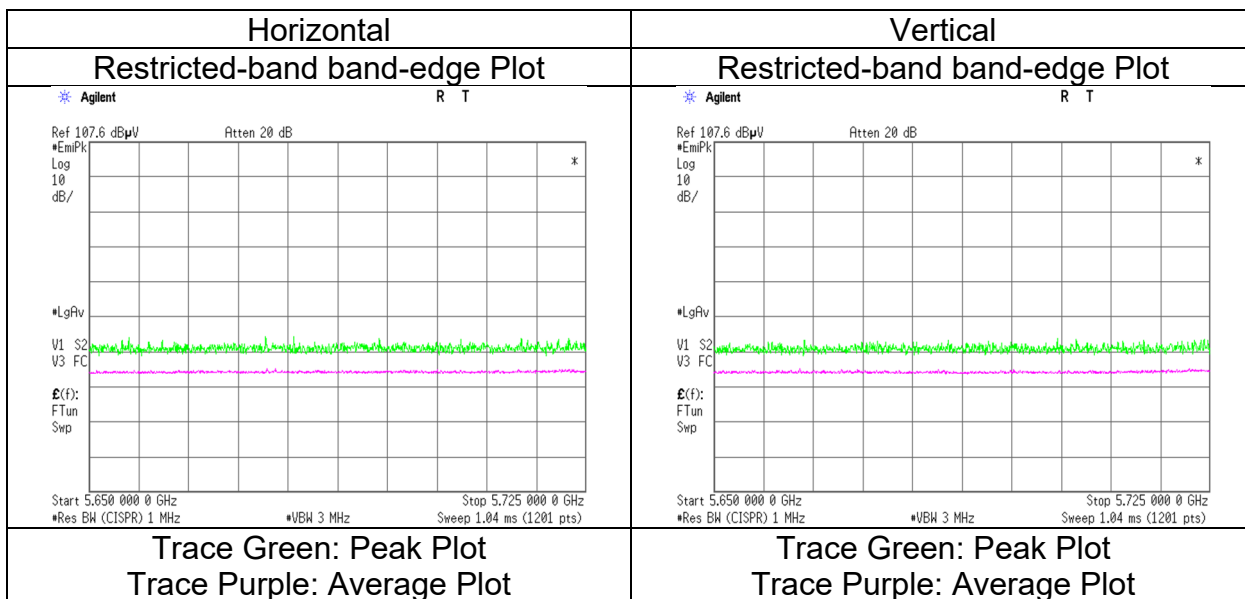
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11n-40 5795 MHz with 11n-20 2462 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	50.25	34.18	15.46	45.53	2.26	56.62	-38.60	27.0	65.6	332	298	
Hori.	5855.000	PK	50.70	34.22	15.46	45.52	2.26	57.12	-38.10	15.6	53.7	332	298	
Hori.	5875.000	PK	50.78	34.36	15.48	45.50	2.26	57.38	-37.84	10.0	47.8	332	298	
Hori.	5925.000	PK	50.94	34.65	15.51	45.46	2.26	57.90	-37.32	-27.0	10.3	332	298	
Vert.	5850.000	PK	50.99	34.18	15.46	45.53	2.26	57.36	-37.86	27.0	64.8	288	6	
Vert.	5855.000	PK	50.24	34.22	15.46	45.52	2.26	56.66	-38.56	15.6	54.1	288	6	
Vert.	5875.000	PK	51.03	34.36	15.48	45.50	2.26	57.63	-37.59	10.0	47.5	288	6	
Vert.	5925.000	PK	51.55	34.65	15.51	45.46	2.26	58.51	-36.71	-27.0	9.7	288	6	

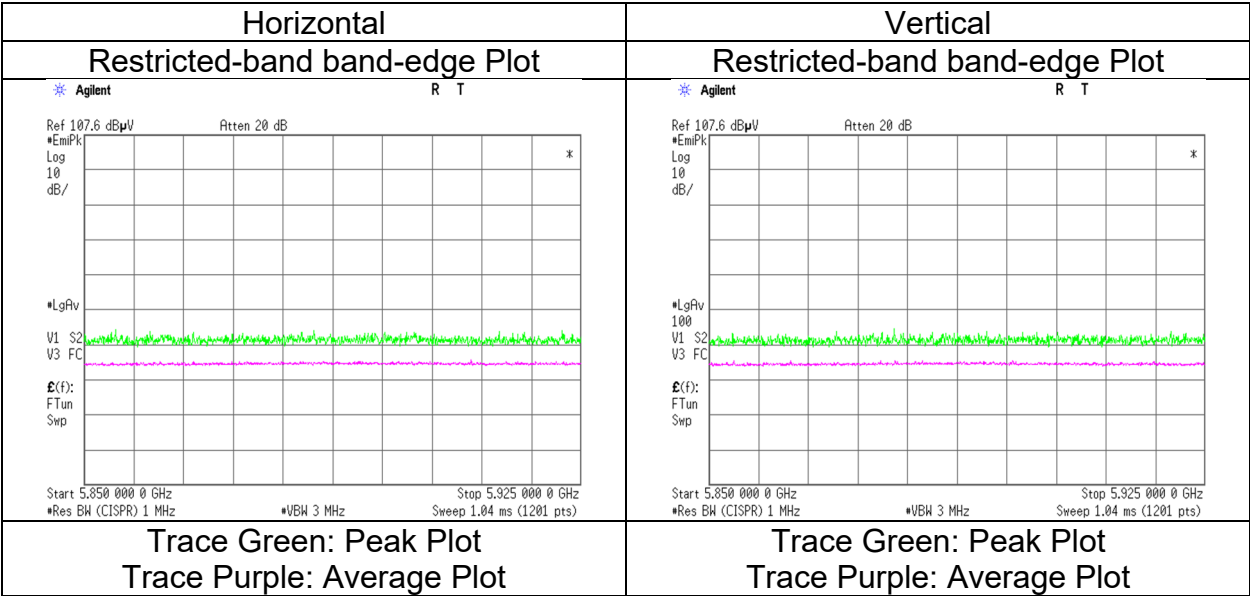
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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



* 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	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	February 21, 2024
Temperature / Humidity	20 deg. C / 43 % RH
Engineer	Hiromitsu Tanabe
	(1 GHz to 6.4 GHz)
Mode	Tx 11ac-40 5190 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

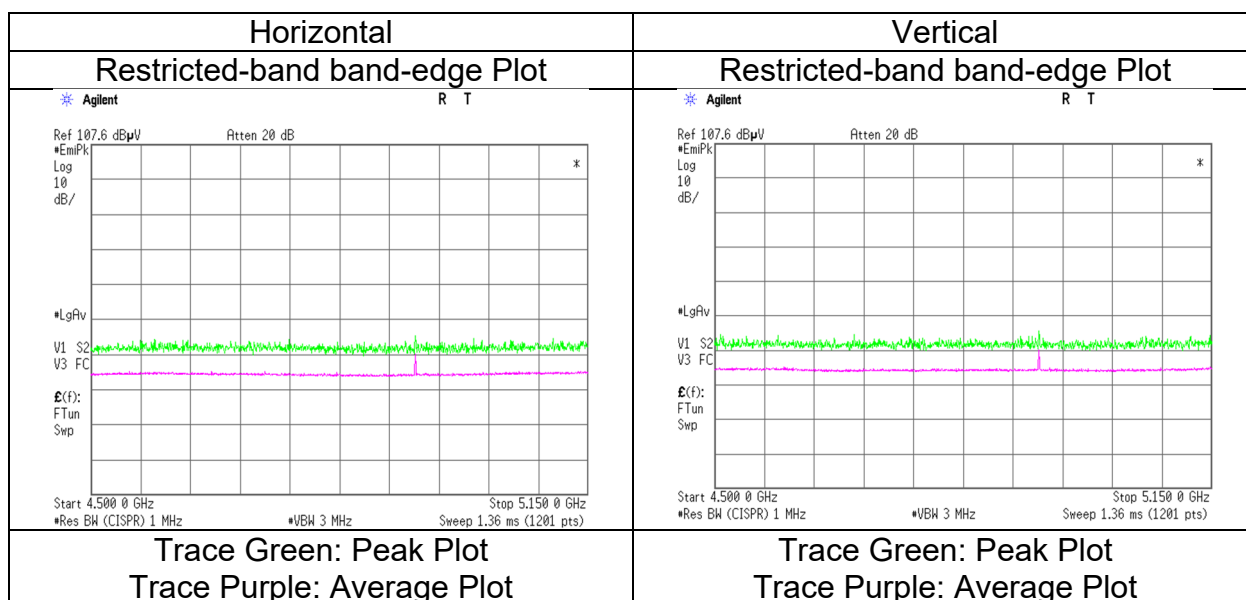
(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	5150.000	PK	51.62	32.60	15.04	45.81	2.26	55.71	73.9	18.1	216	9	
Hori.	5150.000	AV	41.59	32.60	15.04	45.81	2.26	45.68	53.9	8.2	216	9	VBW: 4.3 kHz
Vert.	5150.000	PK	52.88	32.60	15.04	45.81	2.26	56.97	73.9	16.9	231	350	
Vert.	5150.000	AV	42.11	32.60	15.04	45.81	2.26	46.20	53.9	7.7	231	350	VBW: 4.3 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 : $20\log (3.89 \text{ m} / 3.0 \text{ m}) = 2.26 \text{ dB}$

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


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

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

Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5310 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

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

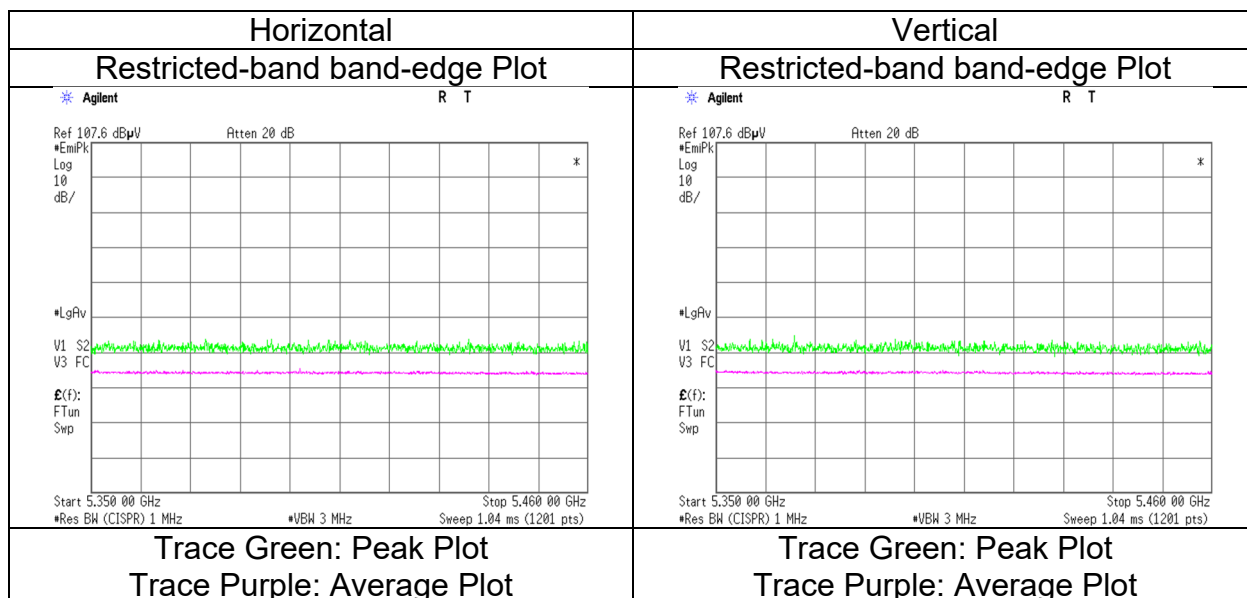
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.62	32.99	15.16	45.75	2.26	55.28	73.9	18.6	337	2	VBW: 4.3 kHz
Hori.	5350.000	AV	40.12	32.99	15.16	45.75	2.26	44.78	53.9	9.1	337	2	
Vert.	5350.000	PK	51.43	32.99	15.16	45.75	2.26	56.09	73.9	17.8	202	359	VBW: 4.3 kHz
Vert.	5350.000	AV	40.53	32.99	15.16	45.75	2.26	45.19	53.9	8.7	202	359	

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5510 MHz with 11n-20 2462 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.	5460.000	PK	51.89	33.14	15.22	45.68	2.26	56.83	73.9	17.0	276	293	VBW: 4.3 kHz
Hori.	5460.000	AV	41.47	33.14	15.22	45.68	2.26	46.41	53.9	7.4	276	293	
Vert.	5460.000	PK	52.77	33.14	15.22	45.68	2.26	57.71	73.9	16.1	211	3	
Vert.	5460.000	AV	41.92	33.14	15.22	45.68	2.26	46.86	53.9	7.0	211	3	

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5470.000	PK	51.65	33.17	15.23	45.68	2.26	56.63	-38.59	-27.0	11.5	276	293	
Vert.	5470.000	PK	52.63	33.17	15.23	45.68	2.26	57.61	-37.61	-27.0	10.6	211	3	

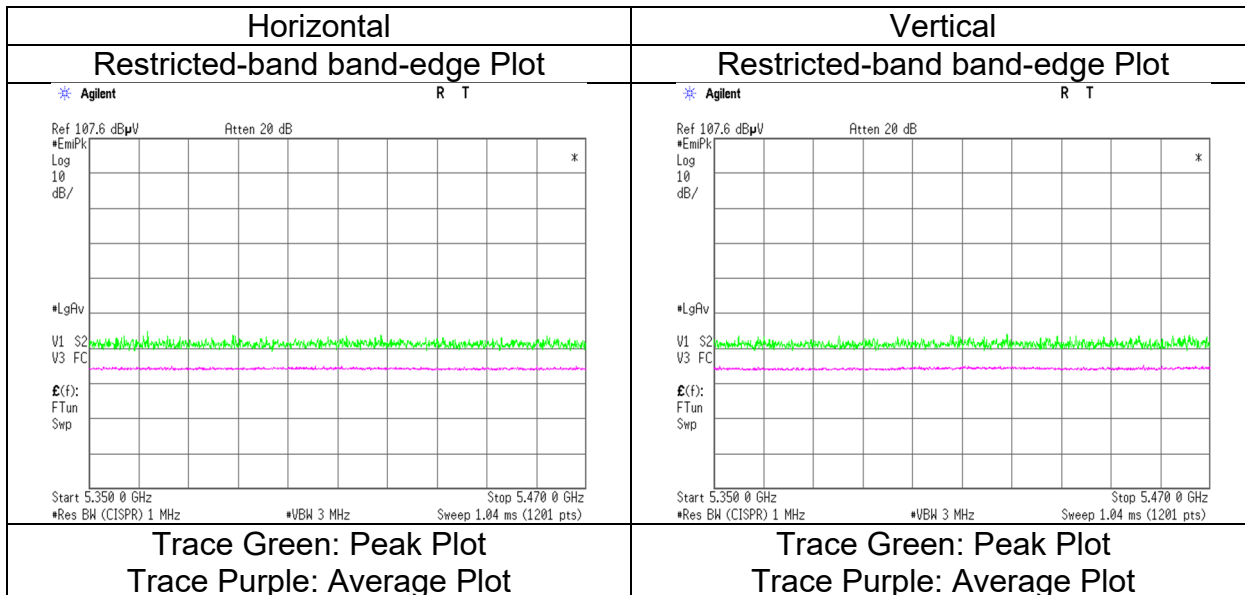
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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.

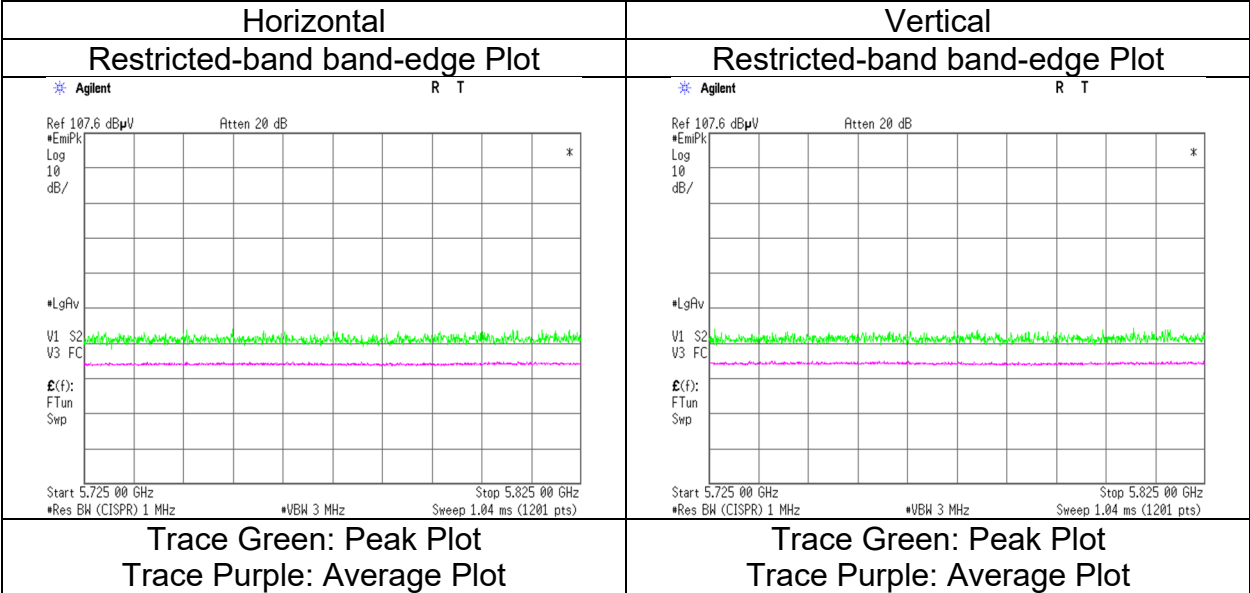
Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5670 MHz with 11n-20 2462 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.	5725.000	PK	51.80	33.64	15.39	45.70	2.26	57.39	-37.83	-27.0	10.8	222	271	
Vert.	5725.000	PK	51.66	33.64	15.39	45.70	2.26	57.25	-37.97	-27.0	10.9	318	5	

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



* 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.

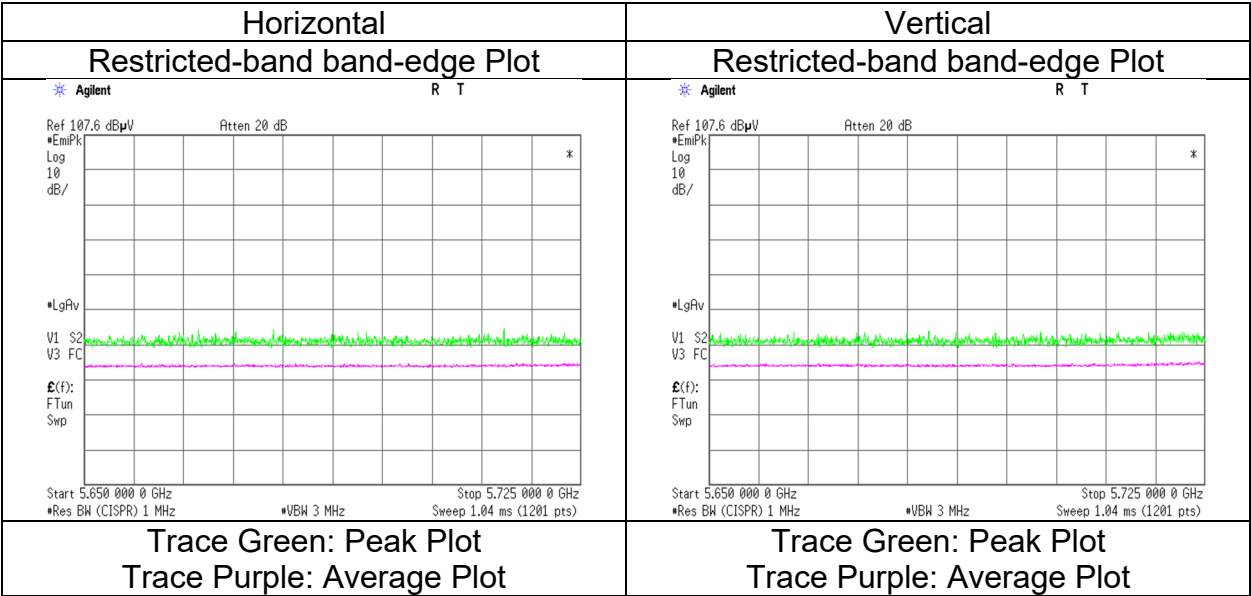
Radiated Spurious Emission

Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
 (1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5755 MHz with 11n-20 2462 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.	5650.000	PK	50.97	33.39	15.34	45.73	2.26	56.23	-38.99	-27.0	11.9	378	24	
Hori.	5700.000	PK	51.75	33.53	15.37	45.72	2.26	57.19	-38.03	10.0	48.0	378	24	
Hori.	5720.000	PK	51.53	33.61	15.38	45.70	2.26	57.08	-38.14	15.6	53.7	378	24	
Hori.	5725.000	PK	51.40	33.64	15.39	45.70	2.26	56.99	-38.23	27.0	65.2	378	24	
Vert.	5650.000	PK	51.38	33.39	15.34	45.73	2.26	56.64	-38.58	-27.0	11.5	285	359	
Vert.	5700.000	PK	52.10	33.53	15.37	45.72	2.26	57.54	-37.68	10.0	47.6	285	359	
Vert.	5720.000	PK	52.00	33.61	15.38	45.70	2.26	57.55	-37.67	15.6	53.2	285	359	
Vert.	5725.000	PK	52.54	33.64	15.39	45.70	2.26	58.13	-37.09	27.0	64.0	285	359	

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-40 5795 MHz with 11n-20 2462 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	50.42	34.18	15.46	45.53	2.26	56.79	-38.43	27.0	65.4	251	296	
Hori.	5855.000	PK	50.42	34.22	15.46	45.52	2.26	56.84	-38.38	15.6	53.9	251	296	
Hori.	5875.000	PK	49.93	34.36	15.48	45.50	2.26	56.53	-38.69	10.0	48.6	251	296	
Hori.	5925.000	PK	50.94	34.65	15.51	45.46	2.26	57.90	-37.32	-27.0	10.3	251	296	
Vert.	5850.000	PK	50.30	34.18	15.46	45.53	2.26	56.67	-38.55	27.0	65.5	305	0	
Vert.	5855.000	PK	50.75	34.22	15.46	45.52	2.26	57.17	-38.05	15.6	53.6	305	0	
Vert.	5875.000	PK	50.67	34.36	15.48	45.50	2.26	57.27	-37.95	10.0	47.9	305	0	
Vert.	5925.000	PK	51.62	34.65	15.51	45.46	2.26	58.58	-36.64	-27.0	9.6	305	0	

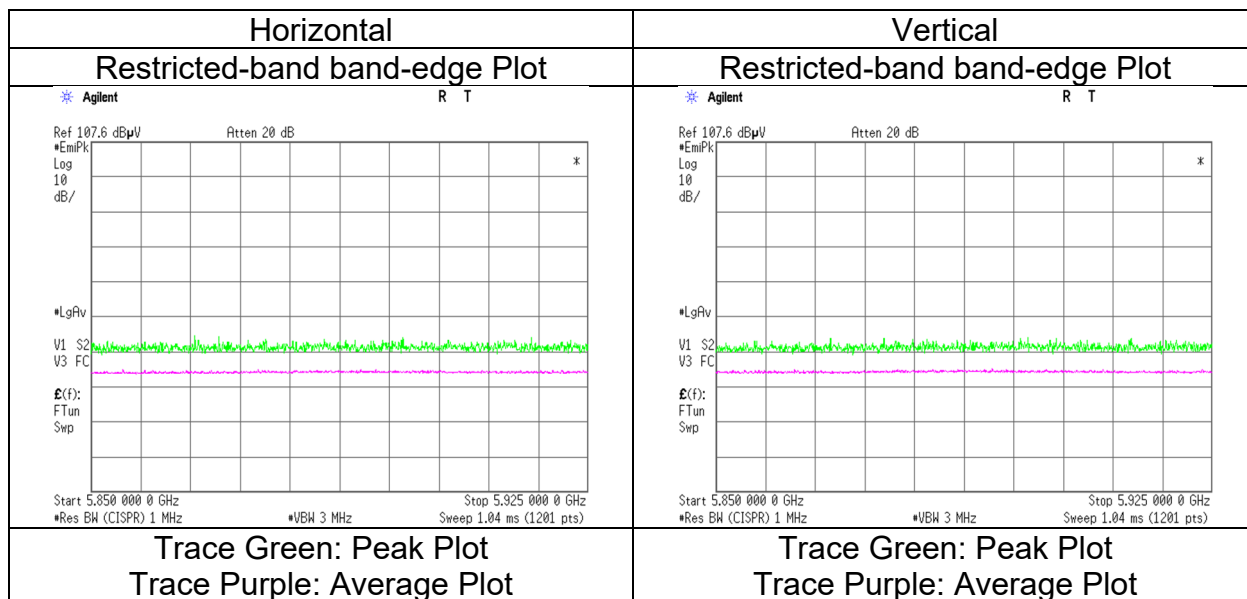
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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



* 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 Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date February 21, 2024
Temperature / Humidity 20 deg. C / 43 % RH
Engineer Hiromitsu Tanabe
(1 GHz to 6.4 GHz)
Mode Tx 11ac-80 5210 MHz with 11n-20 2462 MHz

(above 1 GHz Inside of the restricted band)

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

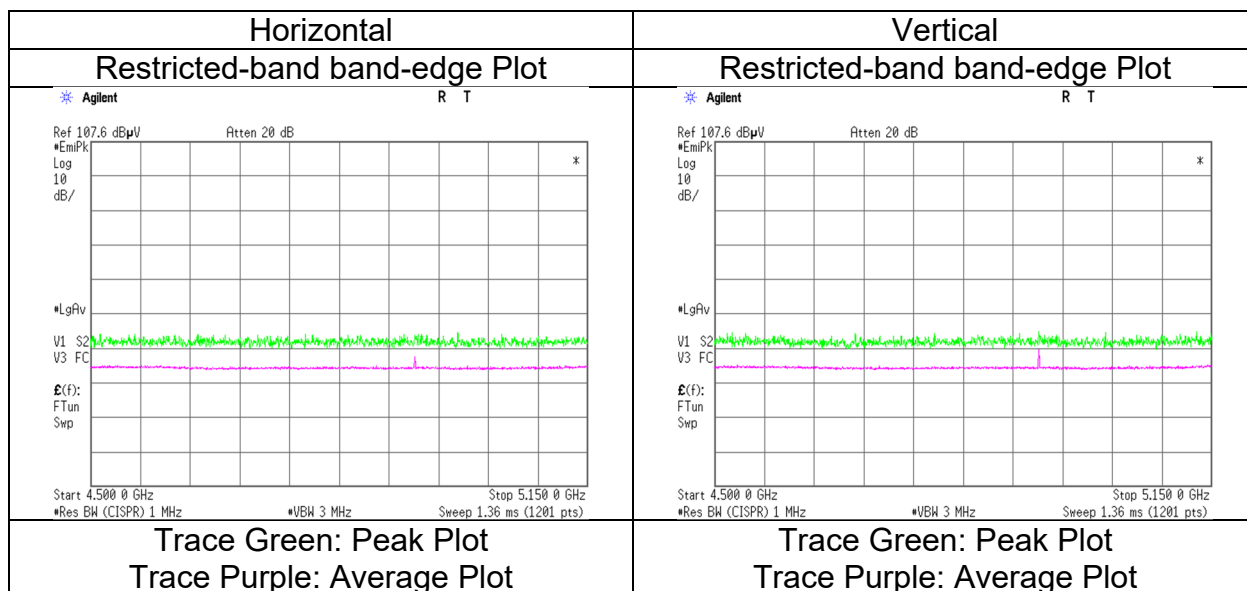
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.47	32.60	15.04	45.81	2.26	55.56	73.9	18.3	348	301	
Hori.	5150.000	AV	41.34	32.60	15.04	45.81	2.26	45.43	53.9	8.4	348	301	VBW: 4.3 kHz
Vert.	5150.000	PK	52.31	32.60	15.04	45.81	2.26	56.40	73.9	17.5	243	7	
Vert.	5150.000	AV	41.40	32.60	15.04	45.81	2.26	45.49	53.9	8.4	243	7	VBW: 4.3 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 : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$



* 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.