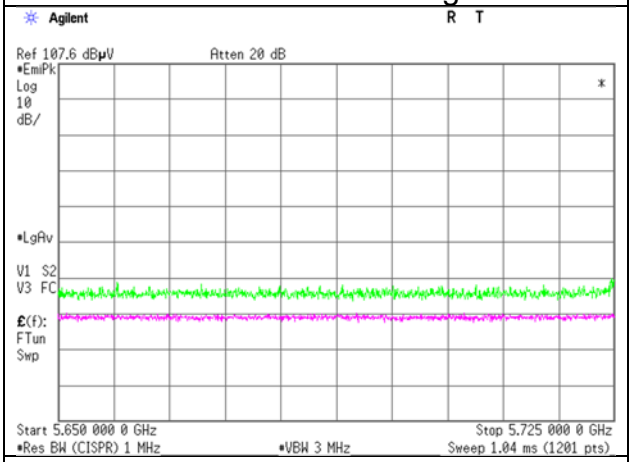
Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 53] 5775 MHz

Horizontal

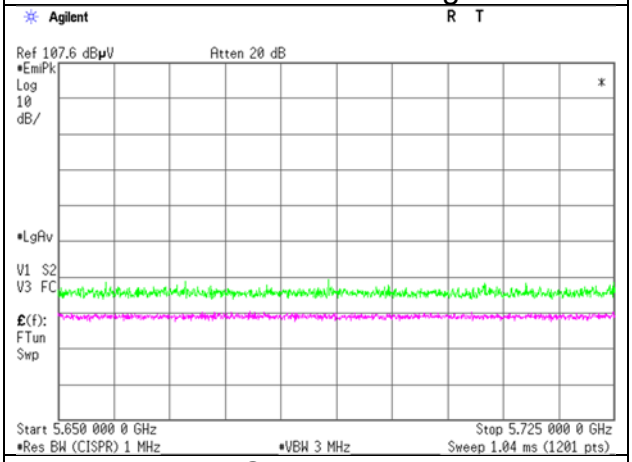
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 61] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	40.3	-	31.7	5.8	31.2	-	46.7	-	68.2	-	21.6	-	
Hori.	5700.0	40.3	-	31.8	5.8	31.2	-	46.8	-	105.2	-	58.4	-	
Hori.	5720.0	45.2	-	31.9	5.8	31.2	-	51.8	-	110.8	-	59.0	-	
Hori.	5725.0	50.3	-	31.9	5.8	31.2	-	56.8	-	122.2	-	65.4	-	
Vert.	5650.0	39.8	-	31.7	5.8	31.2	-	46.2	-	68.2	-	22.0	-	
Vert.	5700.0	40.1	-	31.8	5.8	31.2	-	46.6	-	105.2	-	58.6	-	
Vert.	5720.0	41.2	-	31.9	5.8	31.2	-	47.8	-	110.8	-	63.0	-	
Vert.	5725.0	46.2	-	31.9	5.8	31.2	-	52.8	-	122.2	-	69.4	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

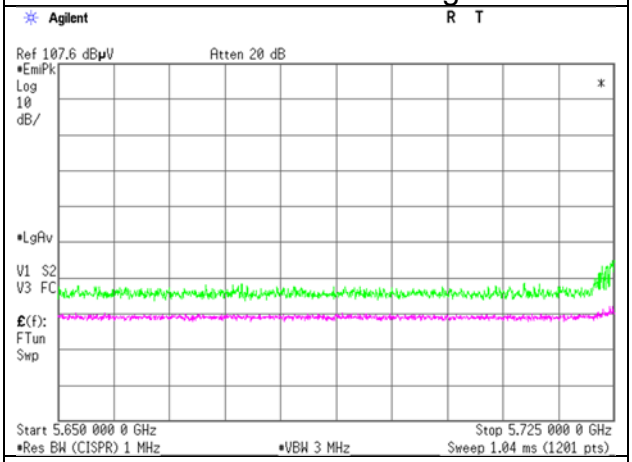
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 61] 5775 MHz

Horizontal

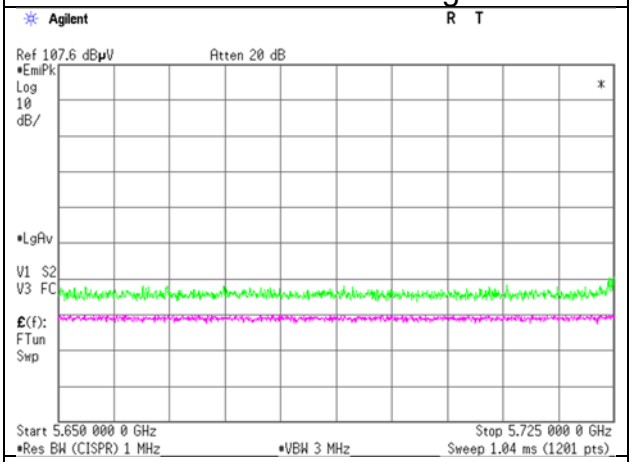
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [484-tone RU/Index 65] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5000.0	41.2	32.2	31.7	5.6	31.1	-	47.3	38.4	73.9	53.9	26.6	15.6	
Hori.	5650.0	40.4	-	31.7	5.8	31.2	-	46.8	-	68.2	-	21.4	-	
Hori.	5700.0	42.2	-	31.8	5.8	31.2	-	48.7	-	105.2	-	56.6	-	
Hori.	5720.0	43.9	-	31.9	5.8	31.2	-	50.5	-	110.8	-	60.3	-	
Hori.	5725.0	48.4	-	31.9	5.8	31.2	-	55.0	-	122.2	-	67.2	-	
Vert.	5000.0	42.9	37.4	31.7	5.6	31.1	-	49.0	43.6	73.9	53.9	24.9	10.3	
Vert.	5650.0	40.4	-	31.7	5.8	31.2	-	46.8	-	68.2	-	21.4	-	
Vert.	5700.0	40.3	-	31.8	5.8	31.2	-	46.8	-	105.2	-	58.4	-	
Vert.	5720.0	43.4	-	31.9	5.8	31.2	-	50.0	-	110.8	-	60.8	-	
Vert.	5725.0	45.3	-	31.9	5.8	31.2	-	51.9	-	122.2	-	70.3	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

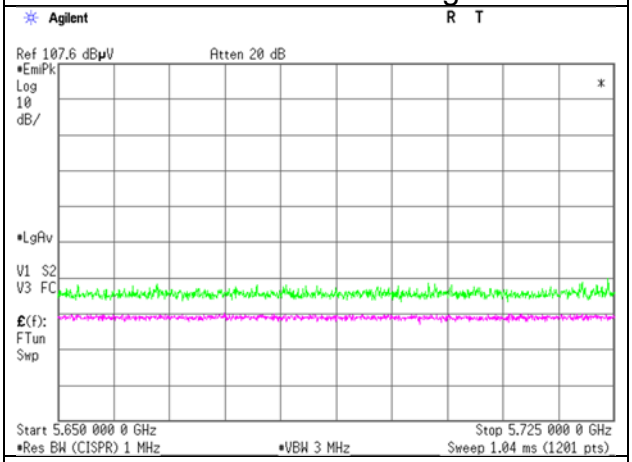
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [484-tone RU/Index 65] 5775 MHz

Horizontal

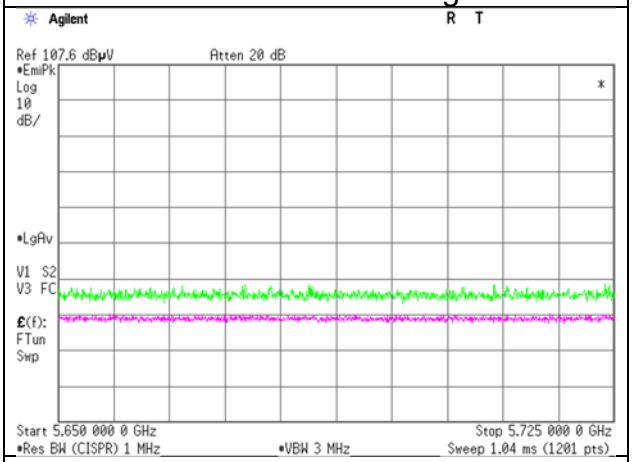
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [26-tone RU/Index 36] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	42.0	-	32.2	5.9	31.2	-	49.0	-	122.2	-	73.2	-	
Hori.	5855.0	41.3	-	32.3	5.9	31.2	-	48.3	-	110.8	-	62.5	-	
Hori.	5875.0	40.9	-	32.3	5.9	31.2	-	47.9	-	105.2	-	57.3	-	
Hori.	5925.0	40.7	-	32.4	5.9	31.2	-	47.8	-	68.2	-	20.4	-	
Vert.	5850.0	41.6	-	32.2	5.9	31.2	-	48.6	-	122.2	-	73.6	-	
Vert.	5855.0	41.0	-	32.3	5.9	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5875.0	40.8	-	32.3	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Vert.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

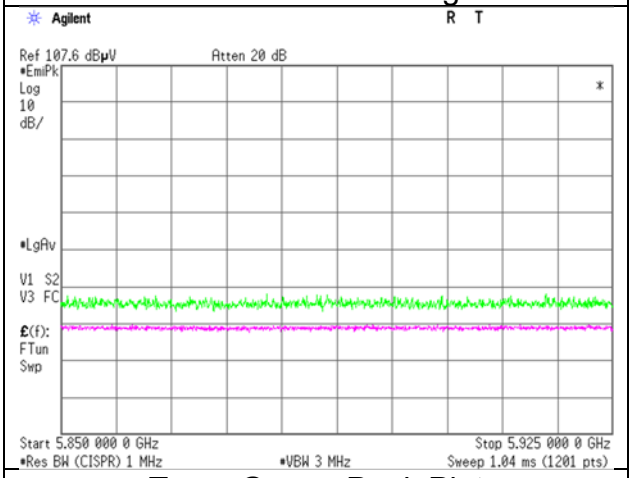
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [26-tone RU/Index 36] 5775 MHz

Horizontal

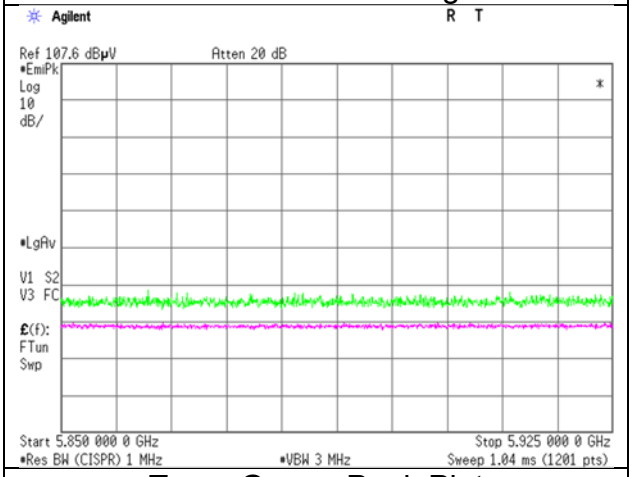
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 52] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	41.7	-	32.2	5.9	31.2	-	48.7	-	122.2	-	73.5	-	
Hori.	5855.0	41.1	-	32.3	5.9	31.2	-	48.1	-	110.8	-	62.7	-	
Hori.	5875.0	40.8	-	32.3	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5925.0	40.6	-	32.4	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	5850.0	41.5	-	32.2	5.9	31.2	-	48.5	-	122.2	-	73.7	-	
Vert.	5855.0	41.0	-	32.3	5.9	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5875.0	40.6	-	32.3	5.9	31.2	-	47.6	-	105.2	-	57.6	-	
Vert.	5925.0	40.3	-	32.4	5.9	31.2	-	47.4	-	68.2	-	20.8	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

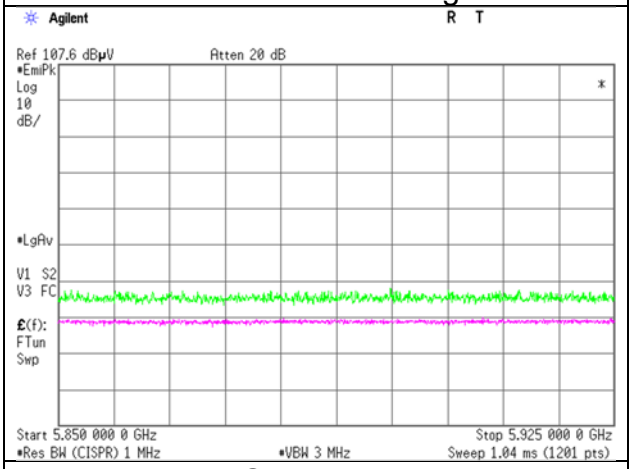
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 52] 5775 MHz

Horizontal

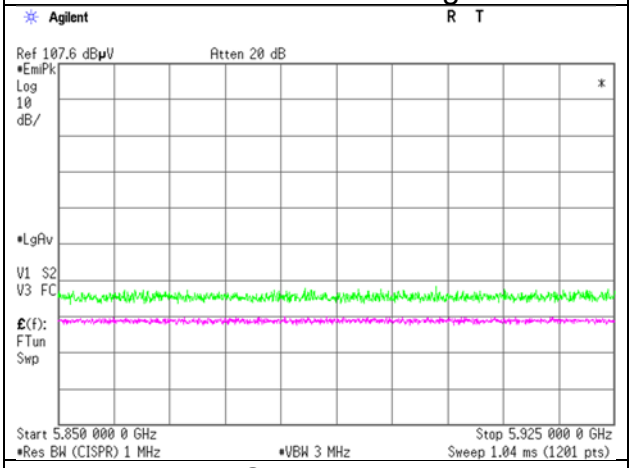
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 60] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	41.8	-	32.2	5.9	31.2	-	48.8	-	122.2	-	73.4	-	
Hori.	5855.0	41.3	-	32.3	5.9	31.2	-	48.3	-	110.8	-	62.5	-	
Hori.	5875.0	40.9	-	32.3	5.9	31.2	-	47.9	-	105.2	-	57.3	-	
Hori.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Vert.	5850.0	41.6	-	32.2	5.9	31.2	-	48.6	-	122.2	-	73.6	-	
Vert.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Vert.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Vert.	5925.0	40.4	-	32.4	5.9	31.2	-	47.5	-	68.2	-	20.7	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

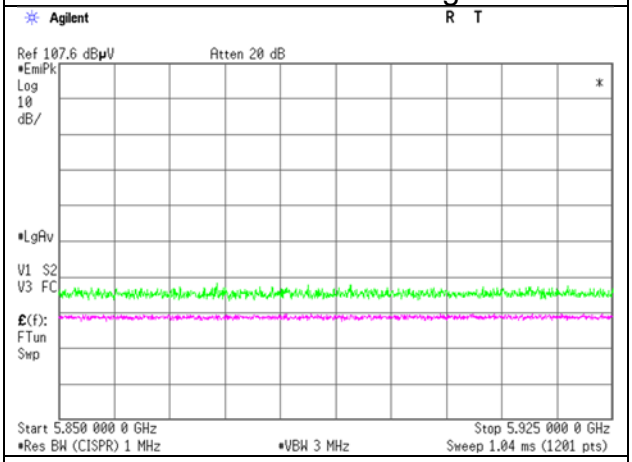
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 60] 5775 MHz

Horizontal

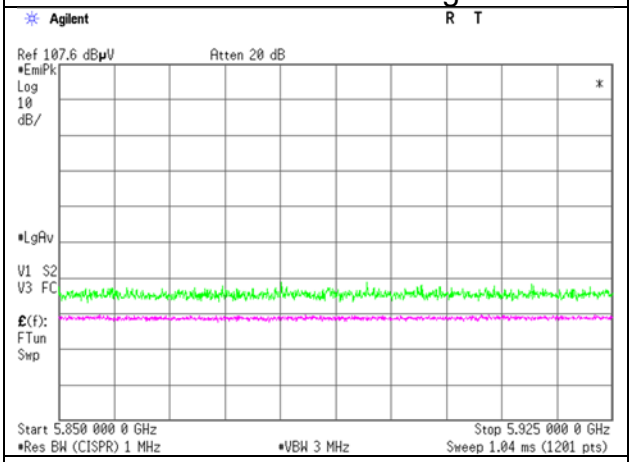
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 64] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	41.6	-	32.2	5.9	31.2	-	48.6	-	122.2	-	73.6	-	
Hori.	5855.0	41.1	-	32.3	5.9	31.2	-	48.1	-	110.8	-	62.7	-	
Hori.	5875.0	40.8	-	32.3	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5925.0	40.6	-	32.4	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	5850.0	41.3	-	32.2	5.9	31.2	-	48.3	-	122.2	-	73.9	-	
Vert.	5855.0	41.0	-	32.3	5.9	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Vert.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

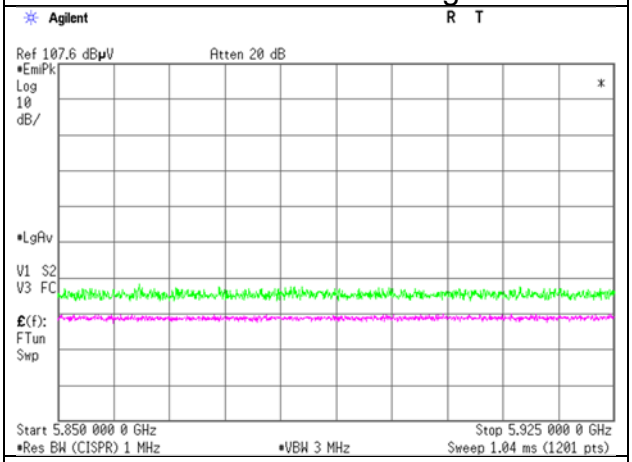
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 64] 5775 MHz

Horizontal

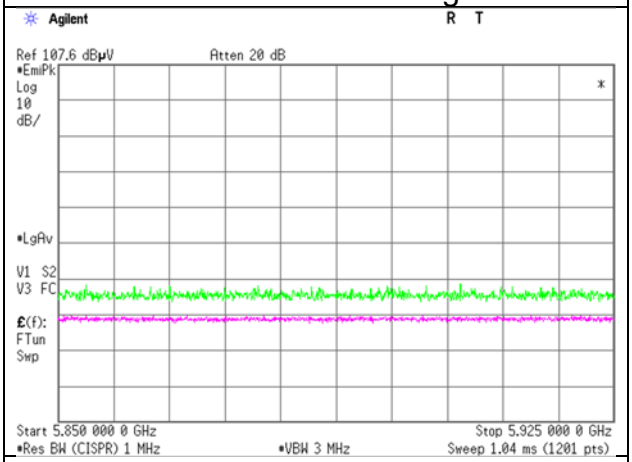
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [484-tone RU/Index 66] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5850.0	41.7	-	32.2	5.9	31.2	-	48.7	-	122.2	-	73.5	-	
Hori.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Hori.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Hori.	5925.0	40.6	-	32.4	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	5850.0	41.5	-	32.2	5.9	31.2	-	48.5	-	122.2	-	73.7	-	
Vert.	5855.0	41.1	-	32.3	5.9	31.2	-	48.1	-	110.8	-	62.7	-	
Vert.	5875.0	40.6	-	32.3	5.9	31.2	-	47.6	-	105.2	-	57.6	-	
Vert.	5925.0	40.4	-	32.4	5.9	31.2	-	47.5	-	68.2	-	20.7	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

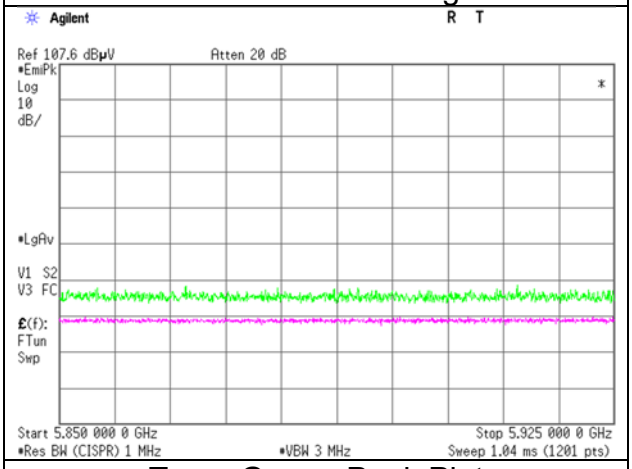
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [484-tone RU/Index 66] 5775 MHz

Horizontal

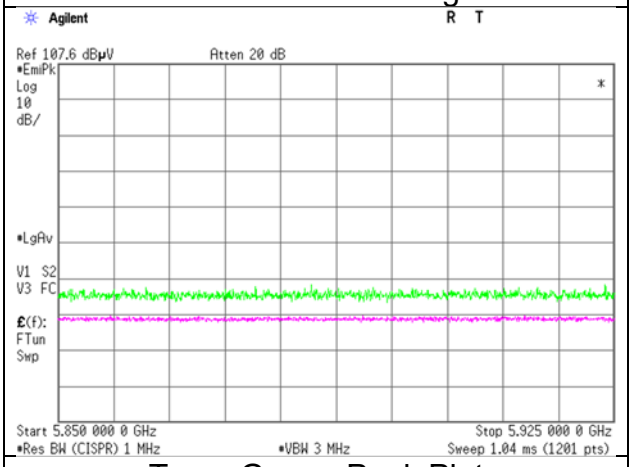
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [996-tone RU/Index 67] 5775 MHz

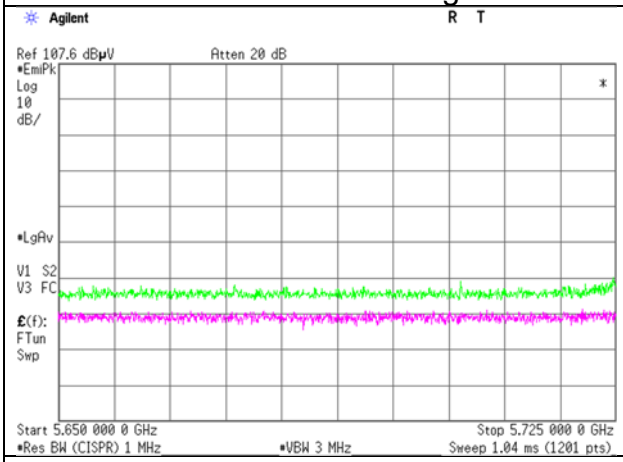
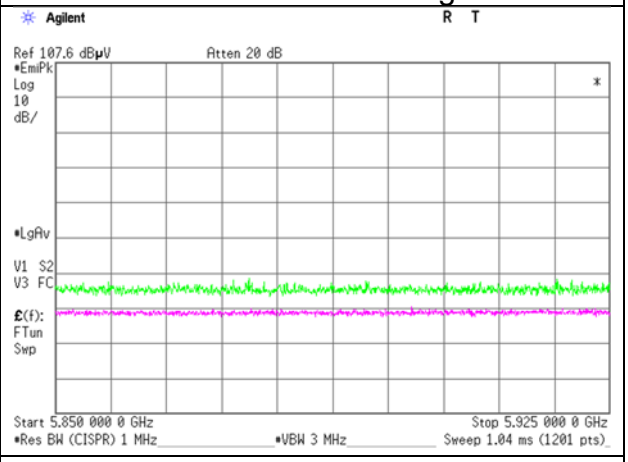
Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5000.0	41.1	32.3	31.7	5.6	31.1	-	47.3	38.4	73.9	53.9	26.7	15.5	
Hori.	5650.0	40.3	-	31.7	5.8	31.2	-	46.7	-	68.2	-	21.5	-	
Hori.	5700.0	40.3	-	31.8	5.8	31.2	-	46.8	-	105.2	-	58.4	-	
Hori.	5720.0	44.6	-	31.9	5.8	31.2	-	51.1	-	110.8	-	59.7	-	
Hori.	5725.0	48.9	-	31.9	5.8	31.2	-	55.5	-	122.2	-	66.8	-	
Hori.	5850.0	39.9	-	32.2	5.9	31.2	-	46.9	-	122.2	-	75.3	-	
Hori.	5855.0	41.0	-	32.2	5.9	31.2	-	47.9	-	110.8	-	62.9	-	
Hori.	5875.0	40.1	-	32.2	5.9	31.2	-	47.1	-	105.2	-	58.1	-	
Hori.	5925.0	40.2	-	32.3	5.9	31.2	-	47.2	-	68.2	-	21.0	-	
Vert.	5000.0	43.0	37.8	31.7	5.6	31.1	-	49.1	44.0	73.9	53.9	24.8	9.9	
Vert.	5650.0	40.9	-	31.7	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Vert.	5700.0	39.9	-	31.8	5.8	31.2	-	46.4	-	105.2	-	58.8	-	
Vert.	5720.0	41.5	-	31.9	5.8	31.2	-	48.1	-	110.8	-	62.8	-	
Vert.	5725.0	45.1	-	31.9	5.8	31.2	-	51.7	-	122.2	-	70.5	-	
Vert.	5850.0	40.6	-	32.2	5.9	31.2	-	47.5	-	122.2	-	74.7	-	
Vert.	5855.0	40.0	-	32.2	5.9	31.2	-	46.9	-	110.8	-	63.9	-	
Vert.	5875.0	39.9	-	32.2	5.9	31.2	-	46.9	-	105.2	-	58.3	-	
Vert.	5925.0	40.8	-	32.3	5.9	31.2	-	47.9	-	68.2	-	20.4	-	

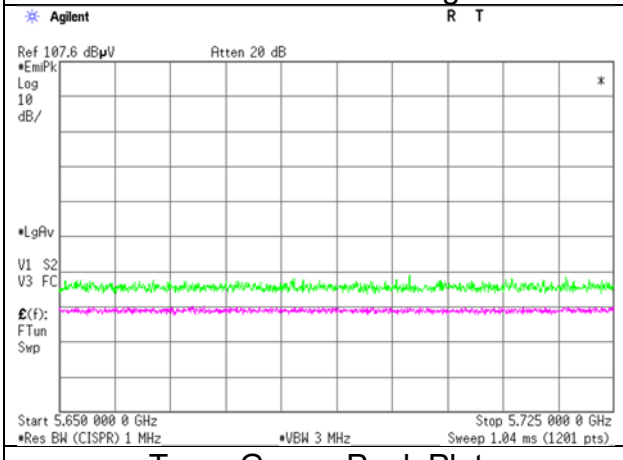
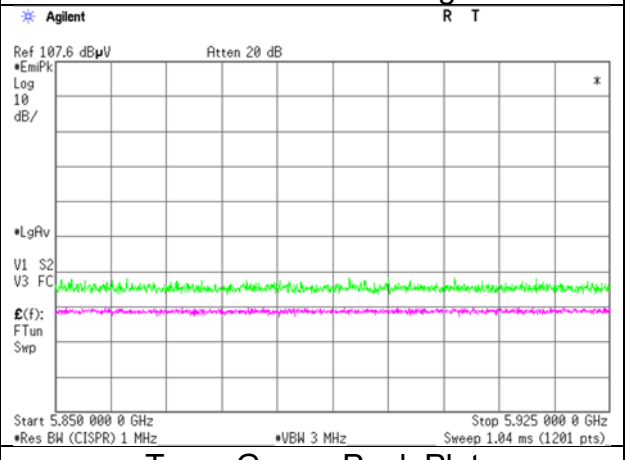
Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [996-tone RU/Index 67] 5775 MHz

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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	Ise EMC Lab.	
Semi Anechoic Chamber	No.4	No.3
Date	November 15, 2024	November 17, 2024
Temperature / Humidity	23 deg. C / 59 % RH	23 deg. C / 62 % RH
Engineer	Tomoya Sone	Hiroki Numata
	(Above1 GHz)	(Below 1 GHz)
Mode	Tx 11ax-40 [OFDM] 5190 MHz + 3DH5 Hopping	

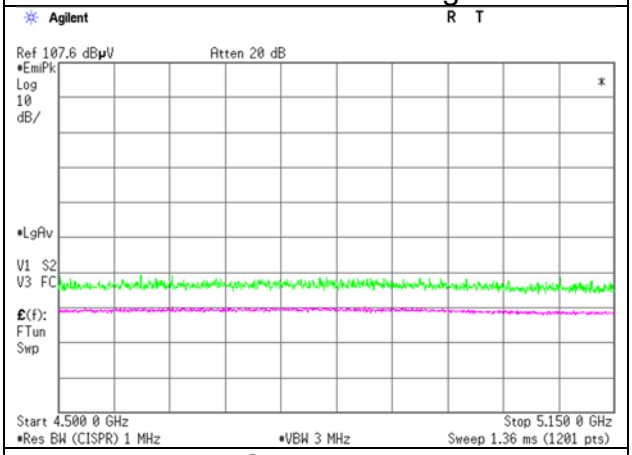
Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	45.0	28.1	-	13.0	7.2	32.2	-	16.1	-	40.0	-	23.9	-	
Hori.	50.6	32.4	-	11.0	7.3	32.2	-	18.5	-	40.0	-	21.5	-	
Hori.	65.3	26.7	-	6.9	7.5	32.2	-	8.9	-	40.0	-	31.1	-	
Hori.	266.5	34.4	-	12.7	9.4	32.0	-	24.5	-	46.0	-	21.5	-	
Hori.	301.5	29.7	-	13.6	9.7	32.0	-	21.0	-	46.0	-	25.0	-	
Hori.	325.1	30.7	-	14.3	9.9	32.0	-	22.9	-	46.0	-	23.1	-	
Hori.	5000.0	42.3	34.3	31.5	5.6	31.1	-	48.3	40.3	73.9	53.9	25.6	13.6	
Hori.	5150.0	41.0	32.5	31.7	5.6	31.1	-	47.1	38.6	73.9	53.9	26.8	15.3	
Hori.	5760.0	45.6	-	32.0	5.9	31.2	-	52.3	-	68.2	-	15.9	-	
Hori.	10380.0	41.9	-	35.9	-2.1	32.9	-	42.8	-	68.2	-	25.4	-	Floor noise
Hori.	15570.0	42.8	32.8	39.3	-0.1	32.0	-	50.1	40.0	73.9	53.9	23.9	13.9	Floor noise
Vert.	36.1	30.9	-	16.3	7.1	32.2	-	22.0	-	40.0	-	18.0	-	
Vert.	47.1	31.1	-	12.2	7.2	32.2	-	18.4	-	40.0	-	21.6	-	
Vert.	62.1	27.2	-	7.5	7.5	32.2	-	10.0	-	40.0	-	30.0	-	
Vert.	225.0	31.4	-	11.3	9.1	32.0	-	19.8	-	46.0	-	26.3	-	
Vert.	314.7	25.6	-	13.9	9.8	32.0	-	17.3	-	46.0	-	28.7	-	
Vert.	490.0	28.4	-	17.5	10.9	32.0	-	24.8	-	46.0	-	21.2	-	
Vert.	5000.0	44.1	36.9	31.5	5.6	31.1	-	50.1	42.9	73.9	53.9	23.8	11.0	
Vert.	5150.0	42.0	32.3	31.7	5.6	31.1	-	48.2	38.5	73.9	53.9	25.8	15.4	
Vert.	5760.0	43.5	-	32.0	5.9	31.2	-	50.2	-	68.2	-	18.0	-	
Vert.	10380.0	41.8	-	35.9	-2.1	32.9	-	42.7	-	68.2	-	25.5	-	Floor noise
Vert.	15570.0	42.7	32.7	39.3	-0.1	32.0	-	50.0	39.9	73.9	53.9	24.0	14.0	Floor noise

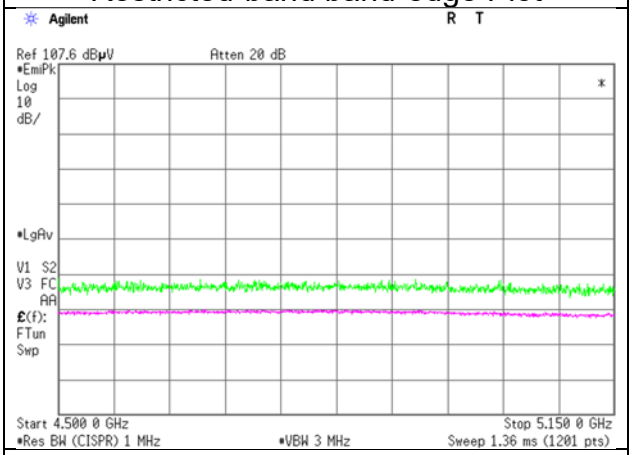
Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.4
Date	November 15, 2024
Temperature / Humidity	23 deg. C / 59 % RH
Engineer	Tomoya Sone
	(Above1 GHz)
Mode	Tx 11ax-40 [OFDM] 5190 MHz + 3DH5 Hopping

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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	Ise EMC Lab.	
Semi Anechoic Chamber	No.2	No.2
Date	April 25, 2025	April 27, 2025
Temperature / Humidity	23 deg. C / 48 % RH	24 deg. C / 40 % RH
Engineer	Tetsuro Yoshida	Yuta Moriya
	(Above 1 GHz)	(Below 1 GHz)
Mode	Tx 11ax-40 [OFDM] 5190 MHz + 11ax-20 [OFDM] 2462 MHz	

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	32.6	25.3	-	17.8	6.9	28.6	-	21.4	-	40.0	-	18.6	-	
Hori.	73.7	24.6	-	6.3	7.3	28.5	-	9.8	-	40.0	-	30.2	-	
Hori.	139.5	22.7	-	14.5	7.9	28.3	-	16.7	-	43.5	-	26.8	-	
Hori.	274.0	25.3	-	13.2	8.7	27.8	-	19.5	-	46.0	-	26.5	-	
Hori.	312.1	23.4	-	14.0	9.0	27.8	-	18.5	-	46.0	-	27.5	-	
Hori.	484.0	22.2	-	17.4	10.0	29.1	-	20.5	-	46.0	-	25.5	-	
Hori.	5000.0	44.9	37.3	31.7	5.0	32.6	-	49.0	41.4	73.9	53.9	24.9	12.5	
Hori.	5150.0	44.2	34.7	31.9	5.0	32.5	-	48.6	39.0	73.9	53.9	25.3	14.9	
Hori.	10380.0	43.6	-	36.4	-2.8	32.9	-	44.2	-	68.2	-	24.0	-	Floor noise
Hori.	15570.0	44.7	35.4	39.6	-1.1	31.8	-	51.3	42.0	73.9	53.9	22.6	11.9	Floor noise
Vert.	32.6	22.5	-	17.8	6.9	28.6	-	18.6	-	40.0	-	21.4	-	
Vert.	73.7	25.9	-	6.3	7.3	28.5	-	11.1	-	40.0	-	29.0	-	
Vert.	139.5	23.7	-	14.5	7.9	28.3	-	17.7	-	43.5	-	25.8	-	
Vert.	274.0	23.6	-	13.2	8.7	27.8	-	17.8	-	46.0	-	28.2	-	
Vert.	312.1	22.1	-	14.0	9.0	27.8	-	17.2	-	46.0	-	28.8	-	
Vert.	484.0	22.3	-	17.4	10.0	29.1	-	20.6	-	46.0	-	25.4	-	
Vert.	5000.0	46.0	40.1	31.7	5.0	32.6	-	50.2	44.2	73.9	53.9	23.7	9.7	
Vert.	5150.0	43.6	34.8	31.9	5.0	32.5	-	47.9	39.2	73.9	53.9	26.0	14.7	
Vert.	10380.0	43.4	-	36.4	-2.8	32.9	-	44.1	-	68.2	-	24.1	-	Floor noise
Vert.	15570.0	44.4	36.5	39.6	-1.1	31.8	-	51.0	43.1	73.9	53.9	22.9	10.8	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

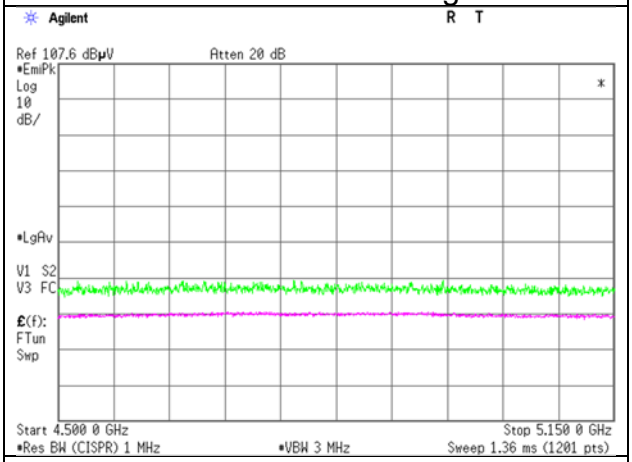
Distance factor:	1 GHz - 6 GHz	20log (3.55 m / 3.0 m) = 1.47 dB
	6 GHz - 10 GHz	20log (3.55 m / 3.0 m) = 1.47 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	April 25, 2025
Temperature / Humidity	23 deg. C / 48 % RH
Engineer	Tetsuro Yoshida
	(Above 1 GHz)
Mode	Tx 11ax-40 [OFDM] 5190 MHz + 11ax-20 [OFDM] 2462 MHz

Horizontal

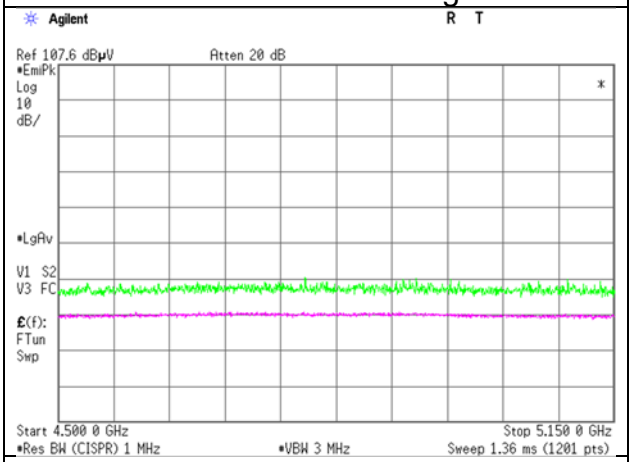
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot

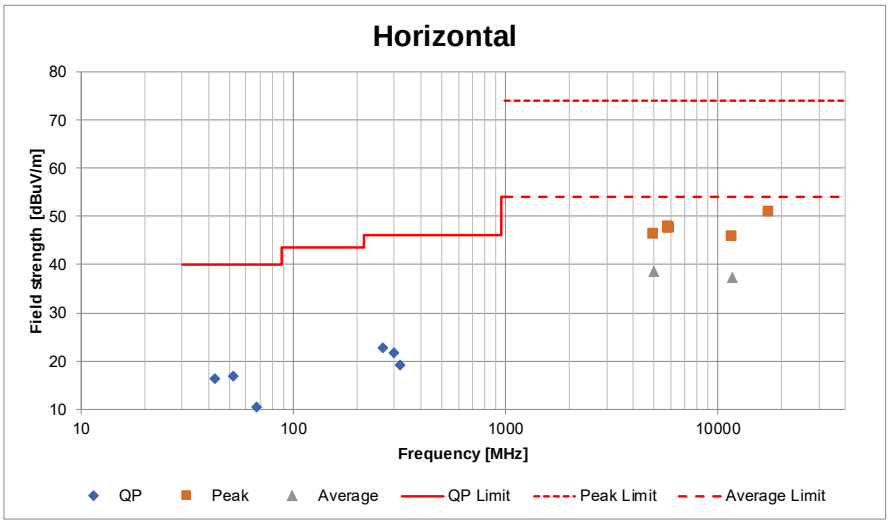


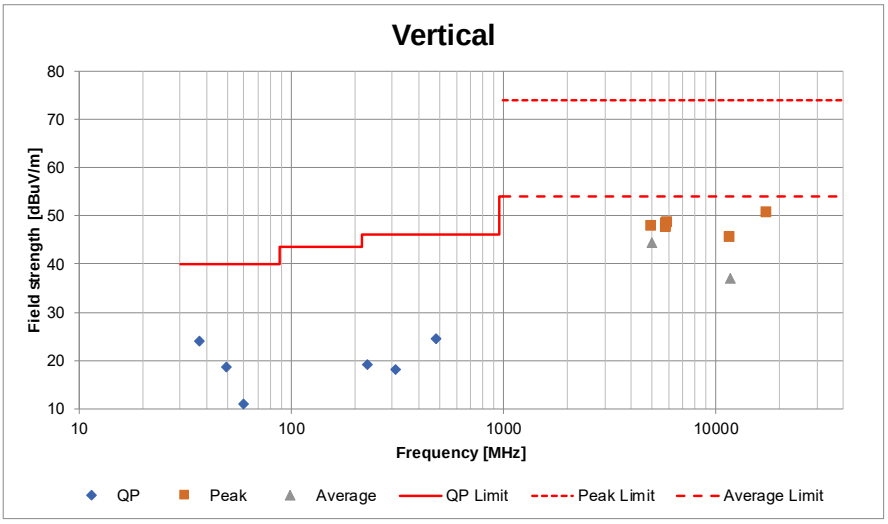
Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	Ise EMC Lab.		
Semi Anechoic Chamber	No.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 29, 2024
Temperature / Humidity	23 deg. C / 51 % RH	23 deg. C / 66 % RH	22 deg. C / 59 % RH
Engineer	Tomoya Sone	Tomoya Sone	Tetsuro Yoshida
	(1 GHz to 6 GHz)	(6 GHz to 10 GHz)	(10 GHz to 18 GHz)
Semi Anechoic Chamber	No.3	No.3	No.3
Date	October 28, 2024	October 28, 2024	November 17, 2024
Temperature / Humidity	23 deg. C / 56 % RH	23 deg. C / 65 % RH	23 deg. C / 62 % RH
Engineer	Tomoya Sone	Tetsuro Yoshida	Hiroki Numata
	(18 GHz to 26.5 GHz)	(Above 26.5 GHz)	(Below 1 GHz)
Mode	Tx 11ax-20 [52-tone RU/Index 40] 5825 MHz		





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

APPENDIX 2: Test Instruments

Test Equipment used from October 28 to November 17, 2024

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141227	Microwave Cable	Junkosha	MMX221-00500DMSDMS	1502S305	03/04/2024	12
RE	141266	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-191	08/23/2024	12
RE	141293	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	602	02/15/2024	12
RE	141323	Coaxial cable	UL-ISE	-	-	09/13/2024	12
RE	141325	Microwave Cable	Suhner	SUCOFLEX101	2873(1m) / 2876(5m)	03/05/2024	12
RE	141424	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+ BBA9106	1915	03/15/2024	12
RE	141504	Horn Antenna 26.5-40GHz	EMCO	3160-10	1150	09/09/2024	12
RE	141507	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	258	11/20/2023	12
RE	141511	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	253	09/09/2024	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170306	07/19/2024	12
RE	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/20/2023	12
RE	141532	DIGITAL HiTESTER	HIOKI E.E. CORPORATION	3805	051201197	01/31/2024	12
RE	141576	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01671	02/17/2024	12
RE	141580	Microwave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/08/2024	12
RE	141582	Pre Amplifier	SONOMA INSTRUMENT	310	260834	02/17/2024	12
RE	141588	Pre Amplifier	L3 Narda-MITEQ	AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P	1871355 / 1871328	01/22/2024	12
RE	141884	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY44020357	05/09/2024	12
RE	141950	EMI Test Receiver	Rohde & Schwarz	ESU26	100412	11/20/2023	12
RE	142008	AC3_Semi Anechoic Chamber (NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	12/11/2023	24
RE	142013	AC3_Semi Anechoic Chamber (SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/12/2023	24
RE	142183	Measure	KOMELON	KMC-36	-	10/21/2024	12
RE	142314	Attenuator	Pasternack Enterprises	PE7390-6	D/C 1504	06/06/2024	12
RE	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	10/25/2024	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	237927	Broadband Amplifier	ERAVANT	SBB-0115033218-2F2F-E3	27554-01	07/04/2024	12
RE	244709	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202103	01/25/2024	12
RE	245787	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	689	03/06/2024	12
RE	246001	Microwave Cable	Huber+Suhner	SF103/11PC35/ 11PC35/1000mm / SF126E/5000mm	800673(1m) / 610204(5m)	03/06/2024	12
RE	248911	Microwave Cable	Huber+Suhner	SF126E/11PC35/ 11PC35/1000MM	537060/126E	05/29/2024	12

Test Equipment used from April 25 to 27, 2025

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141265	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-190	07/10/2024	12
RE	141279	Microwave Cable	Junkosha	MMX221-00500DMSDMS	1502S303	03/03/2025	12
RE	141317	Coaxial Cable	UL-ISE	-	-	09/11/2024	12
RE	141331	Attenuator(6dB)	TME	UFA-01	-	02/19/2025	12
RE	141406	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	09/11/2024	12
RE	141427	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103B+BBA9106	08031	07/30/2024	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/17/2024	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170306	07/19/2024	12
RE	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/11/2024	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/06/2024	12
RE	141588	Pre Amplifier	L3 Narda-MITEQ	AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P	1871355 /1871328	01/23/2025	12
RE	141594	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10150	02/19/2025	12
RE	141950	EMI Test Receiver	Rohde & Schwarz	ESU26	100412	11/28/2024	12
RE	141978	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180899	05/09/2024	12
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	12/12/2023	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/21/2025	24
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	10/25/2024	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	238713	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	688	09/02/2024	12
RE	244707	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202102	01/19/2025	12
RE	252663	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000MM,5000MM	616276/126E / 616275/126E	09/10/2024	12
RE	253739	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01919	10/23/2024	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