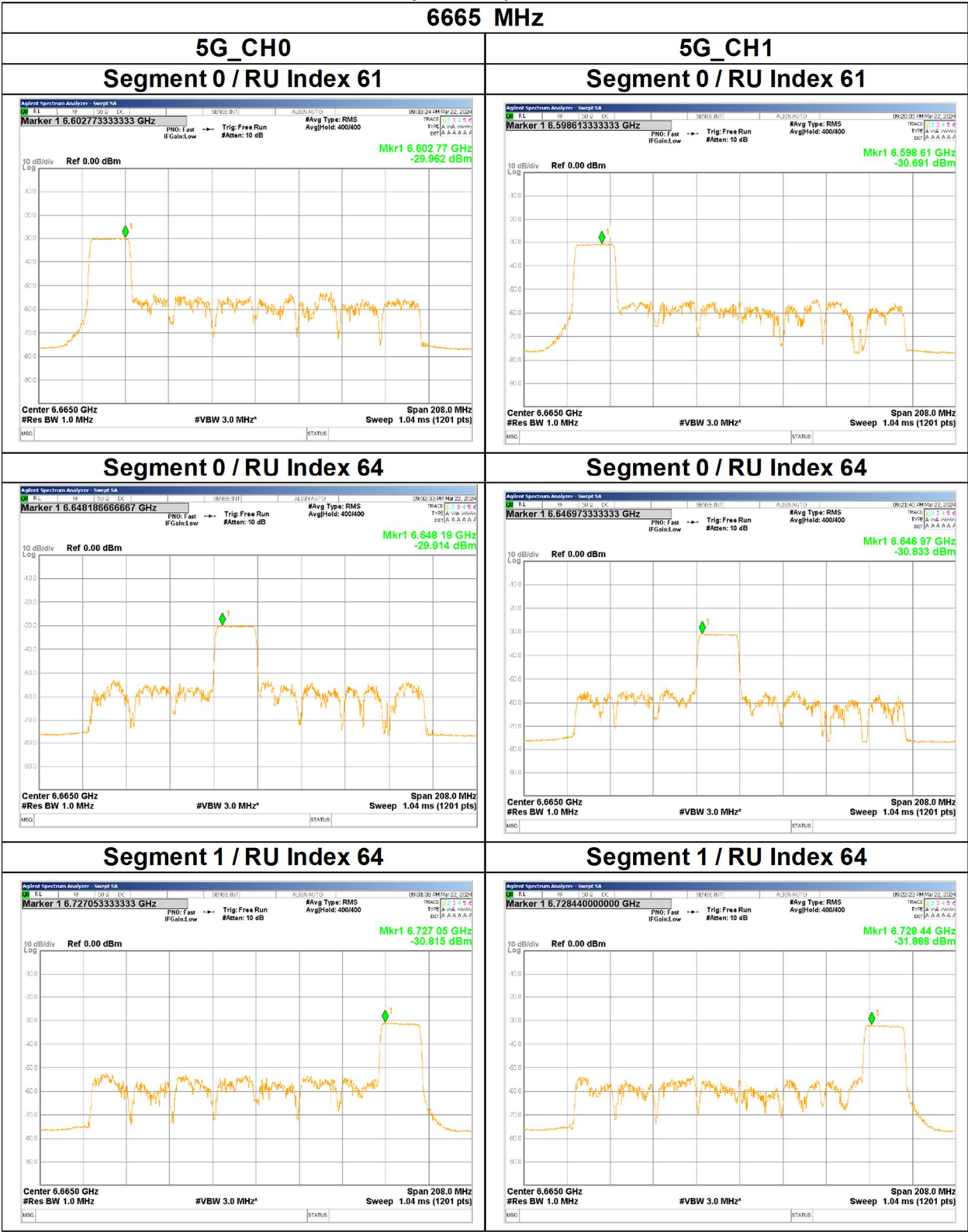


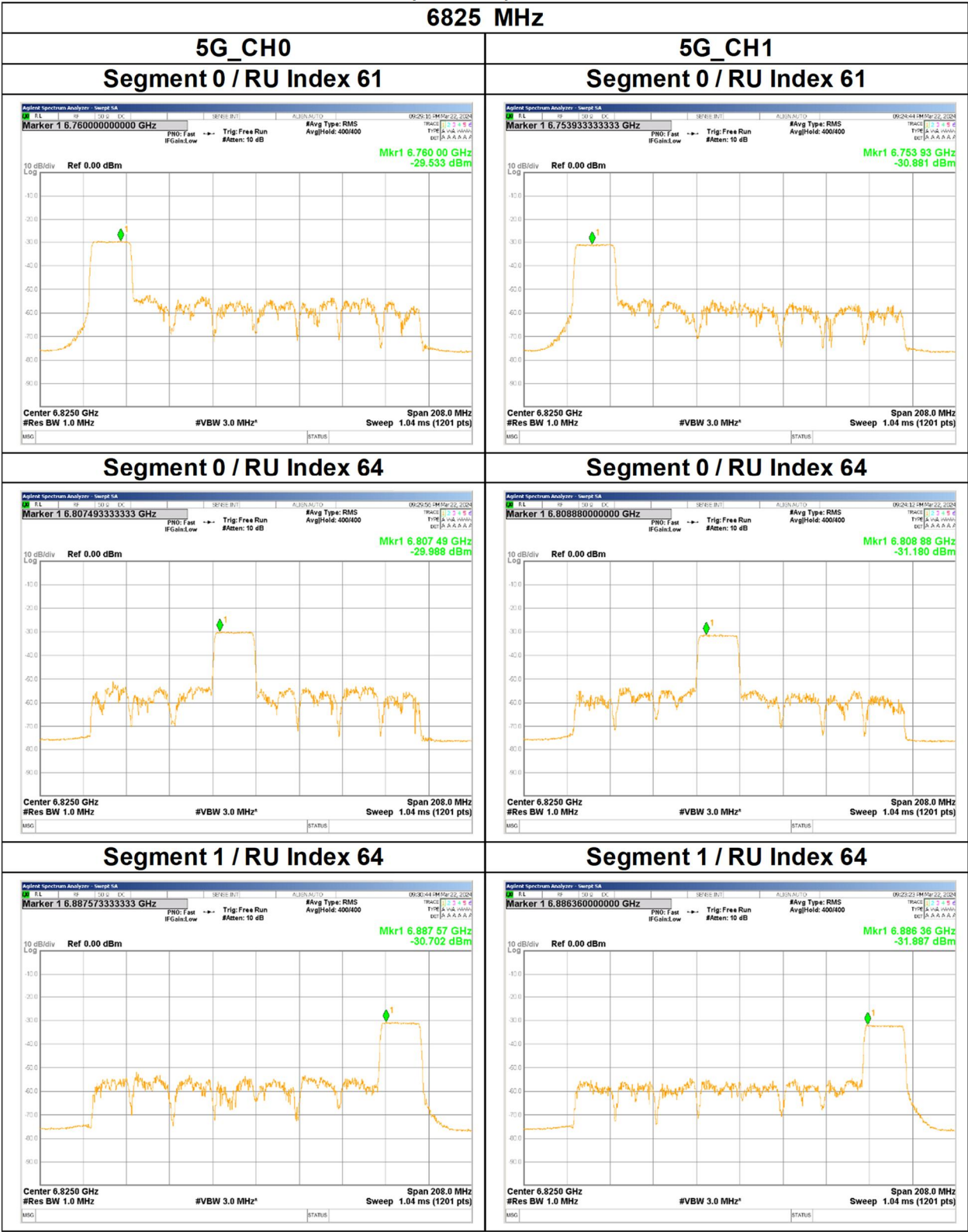
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU
6665 MHz



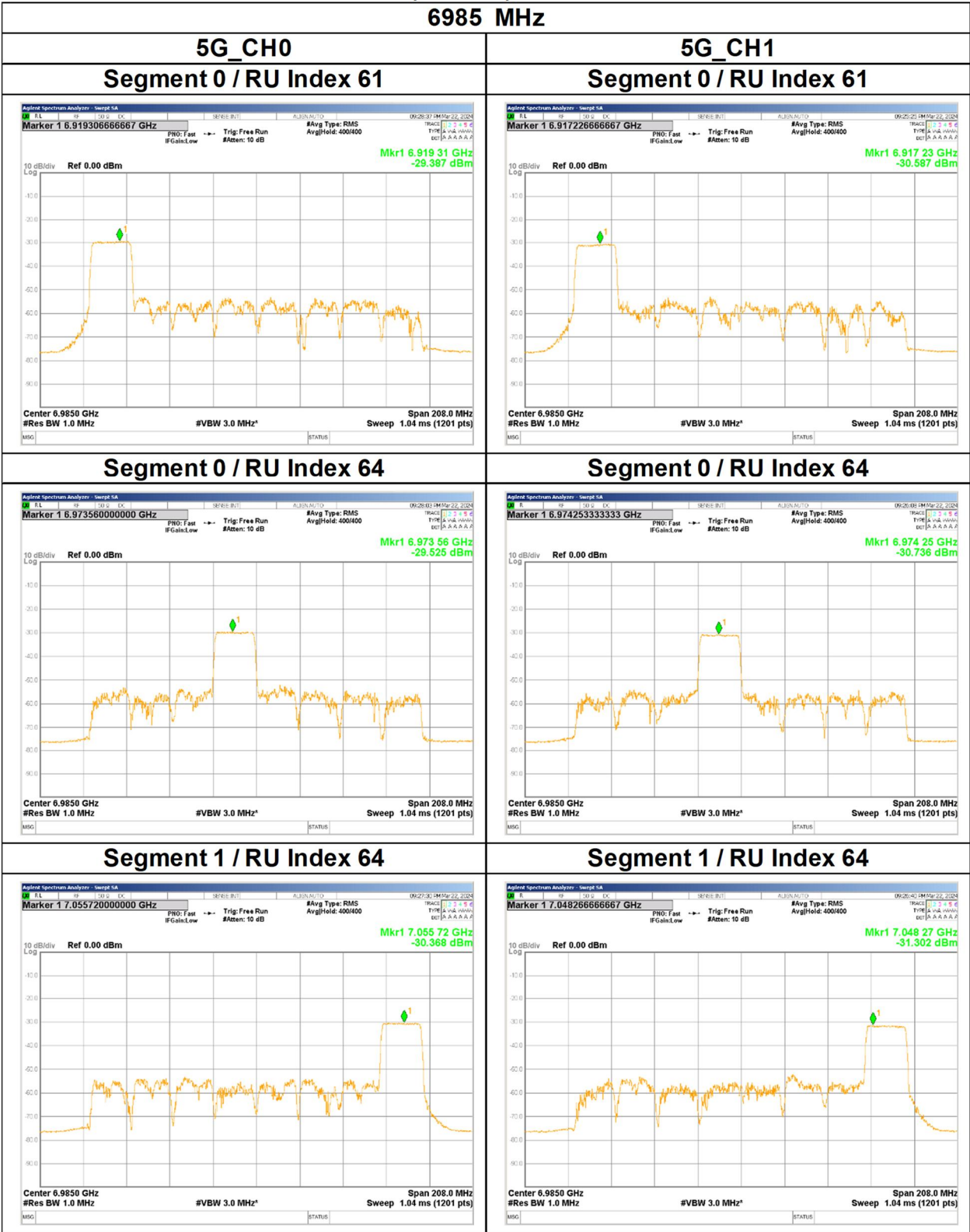
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU
6825 MHz



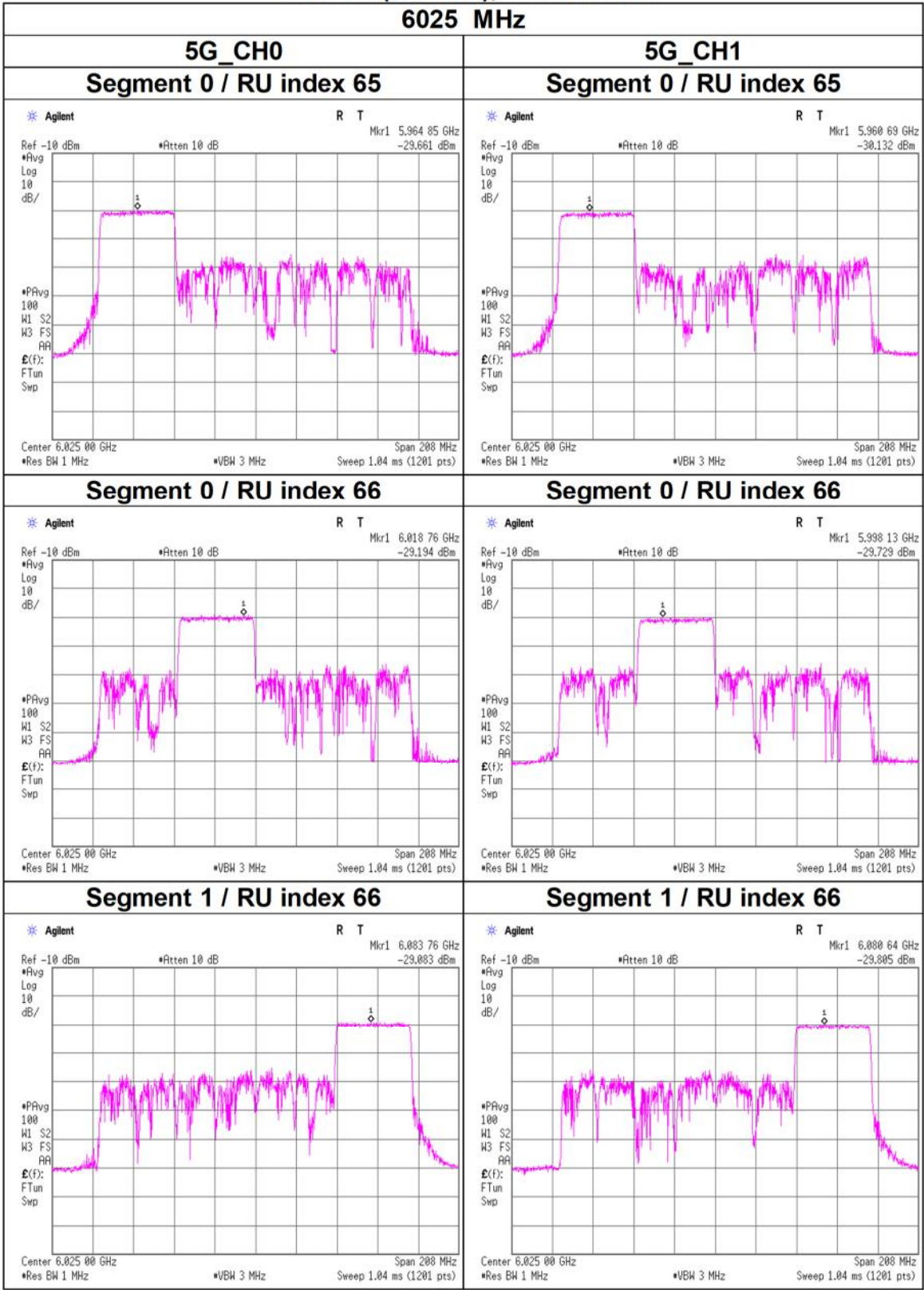
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU
6985 MHz



Maximum Power Spectral Density

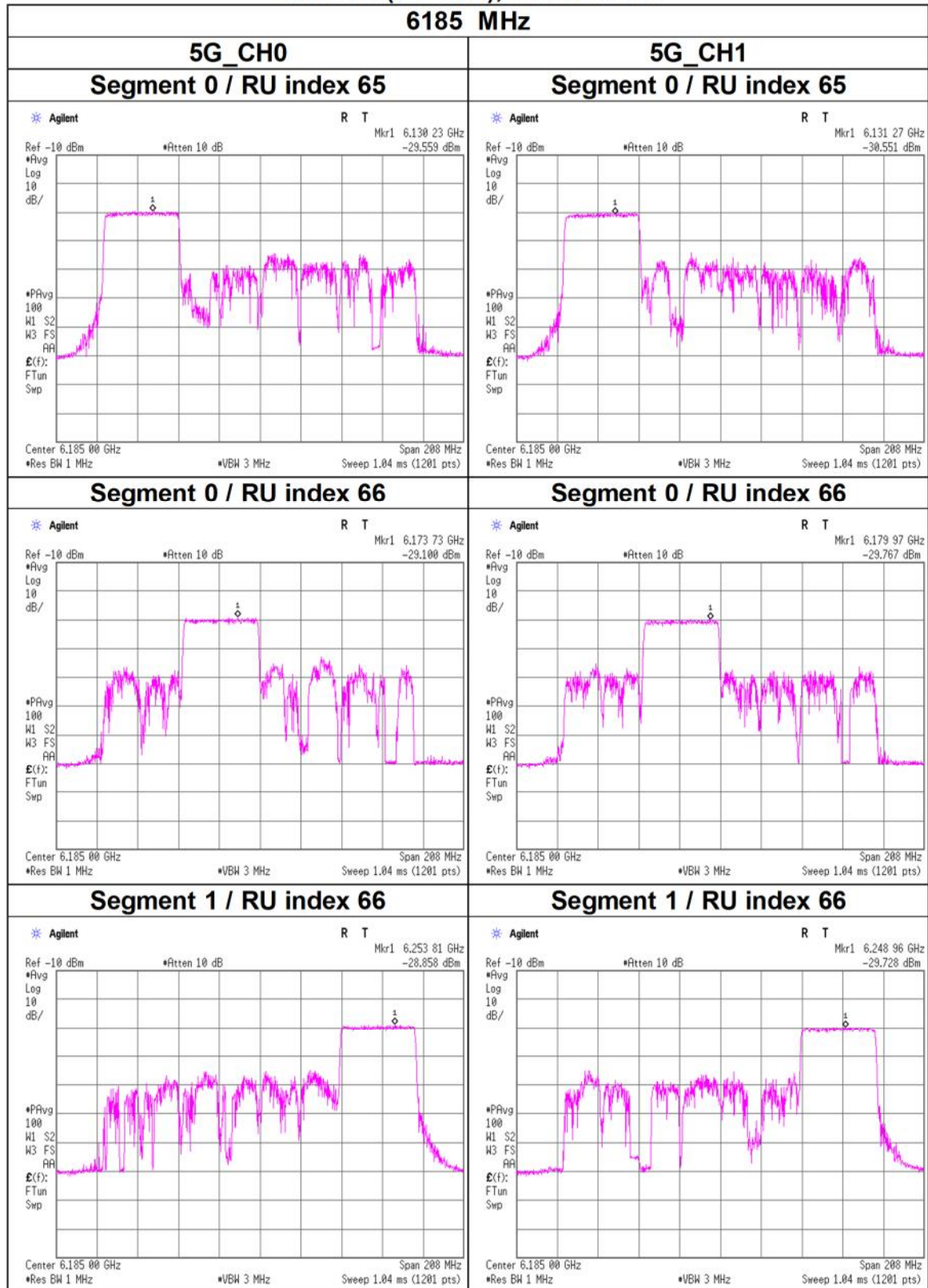
11ax-160(OFDMA), 484-tone RU



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

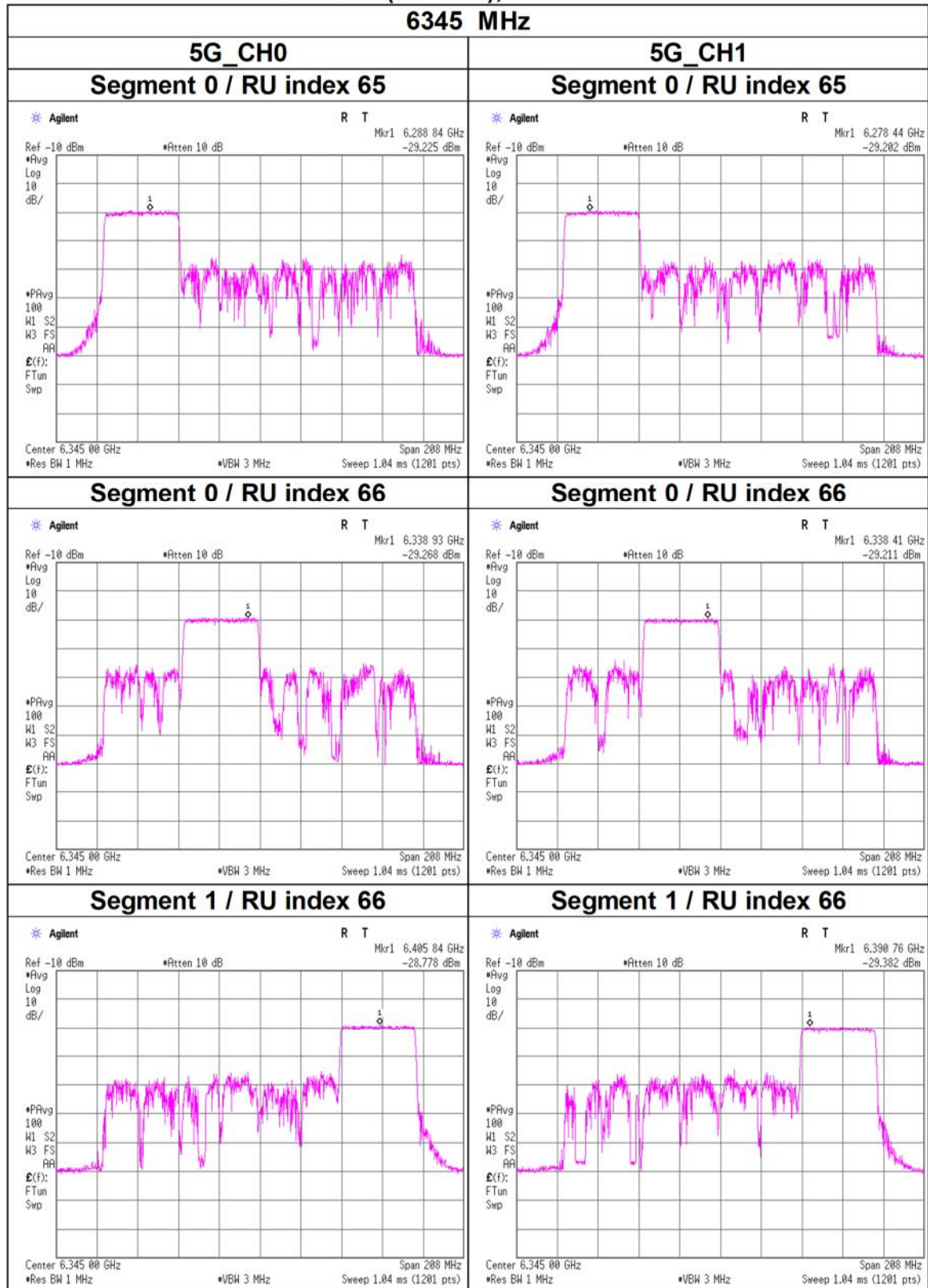
6185 MHz



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

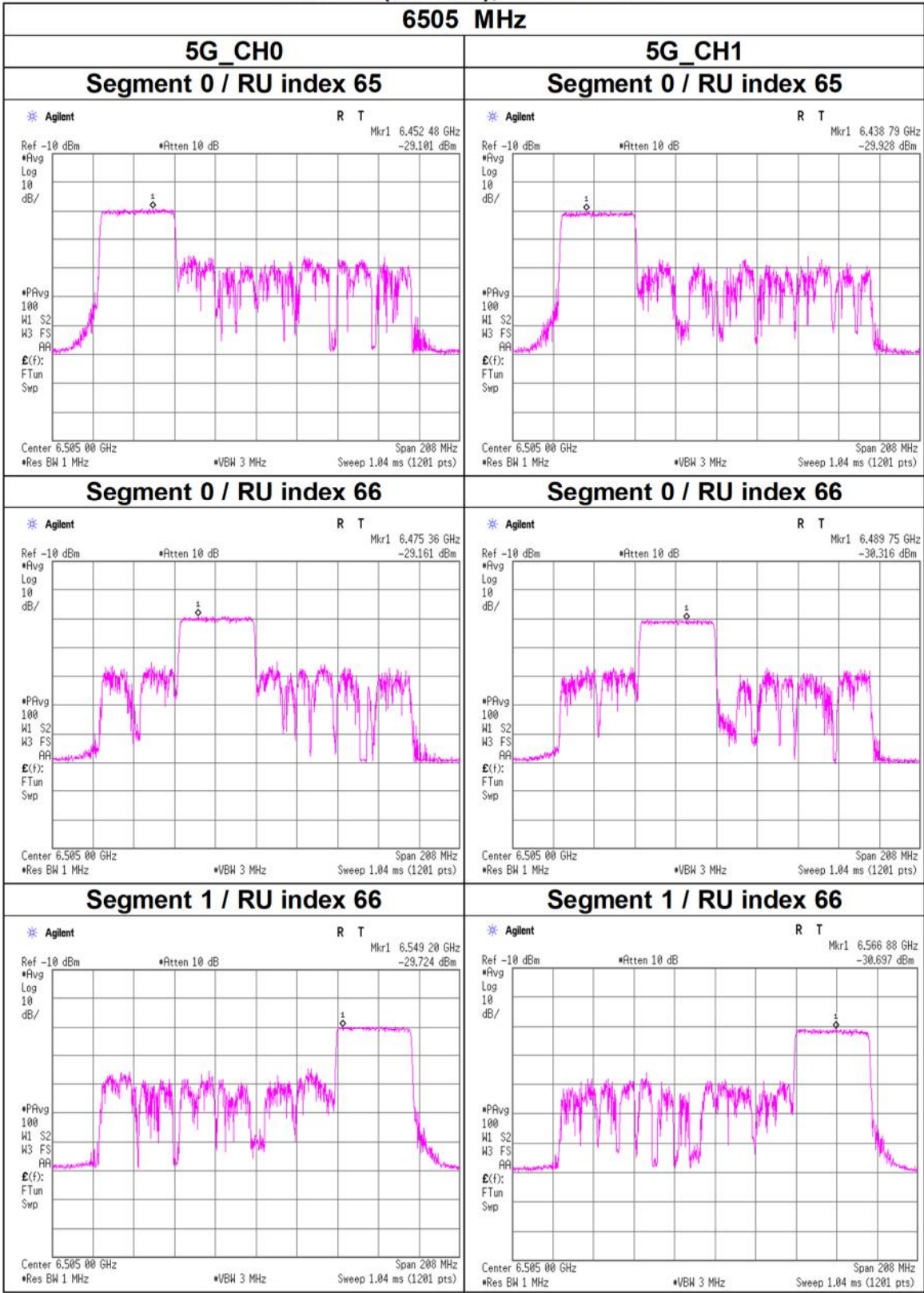
6345 MHz



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

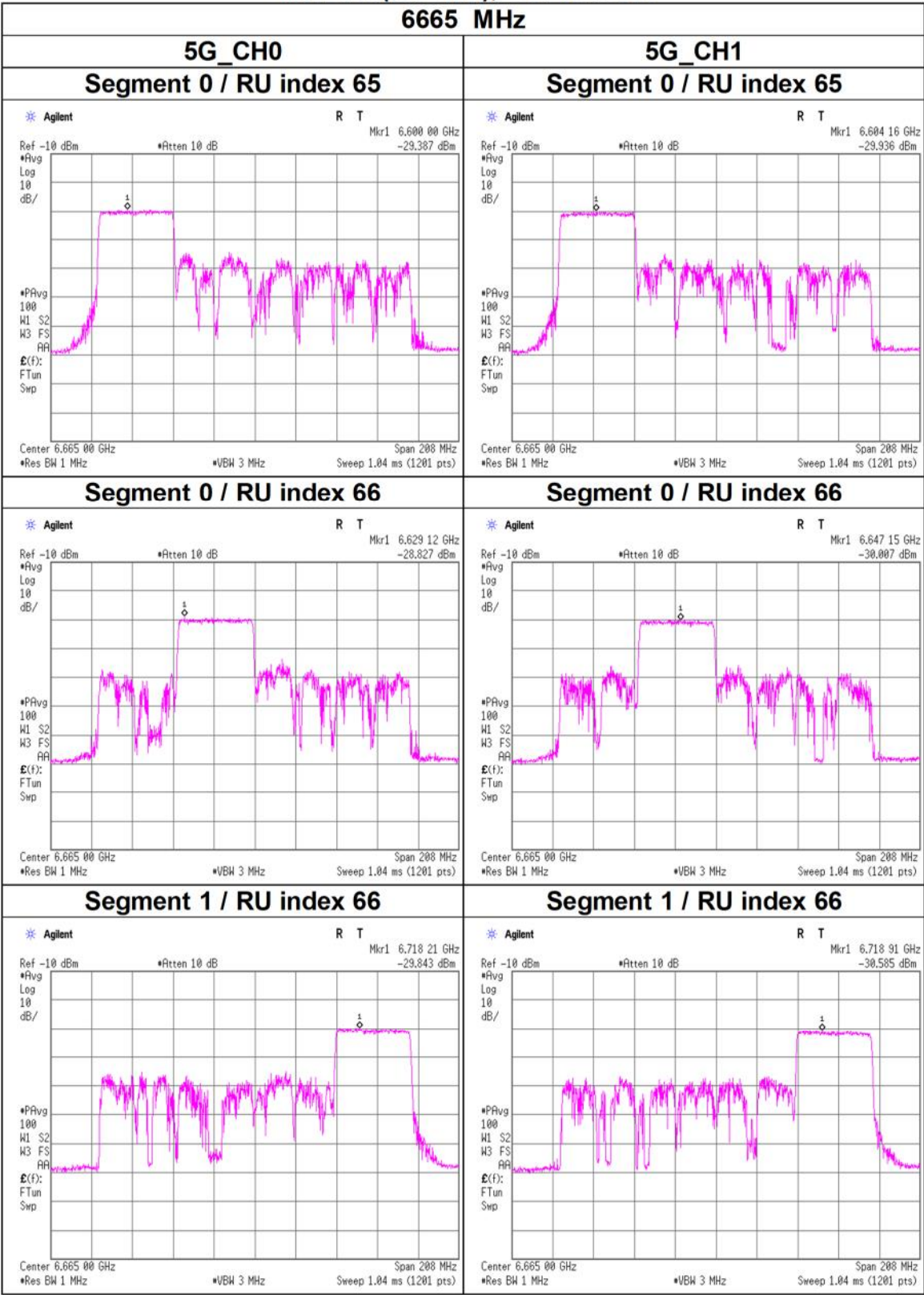
6505 MHz



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

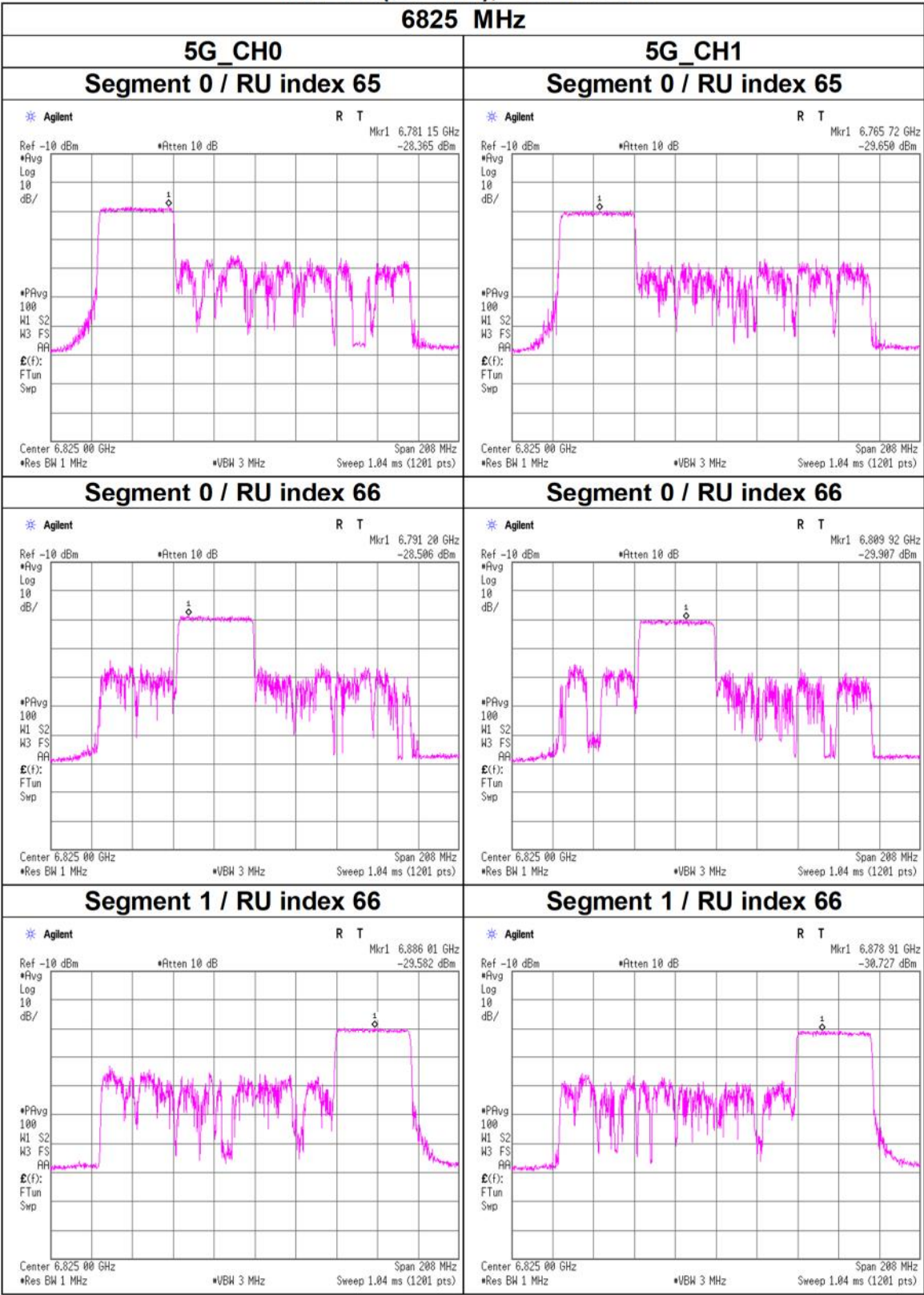
6665 MHz



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

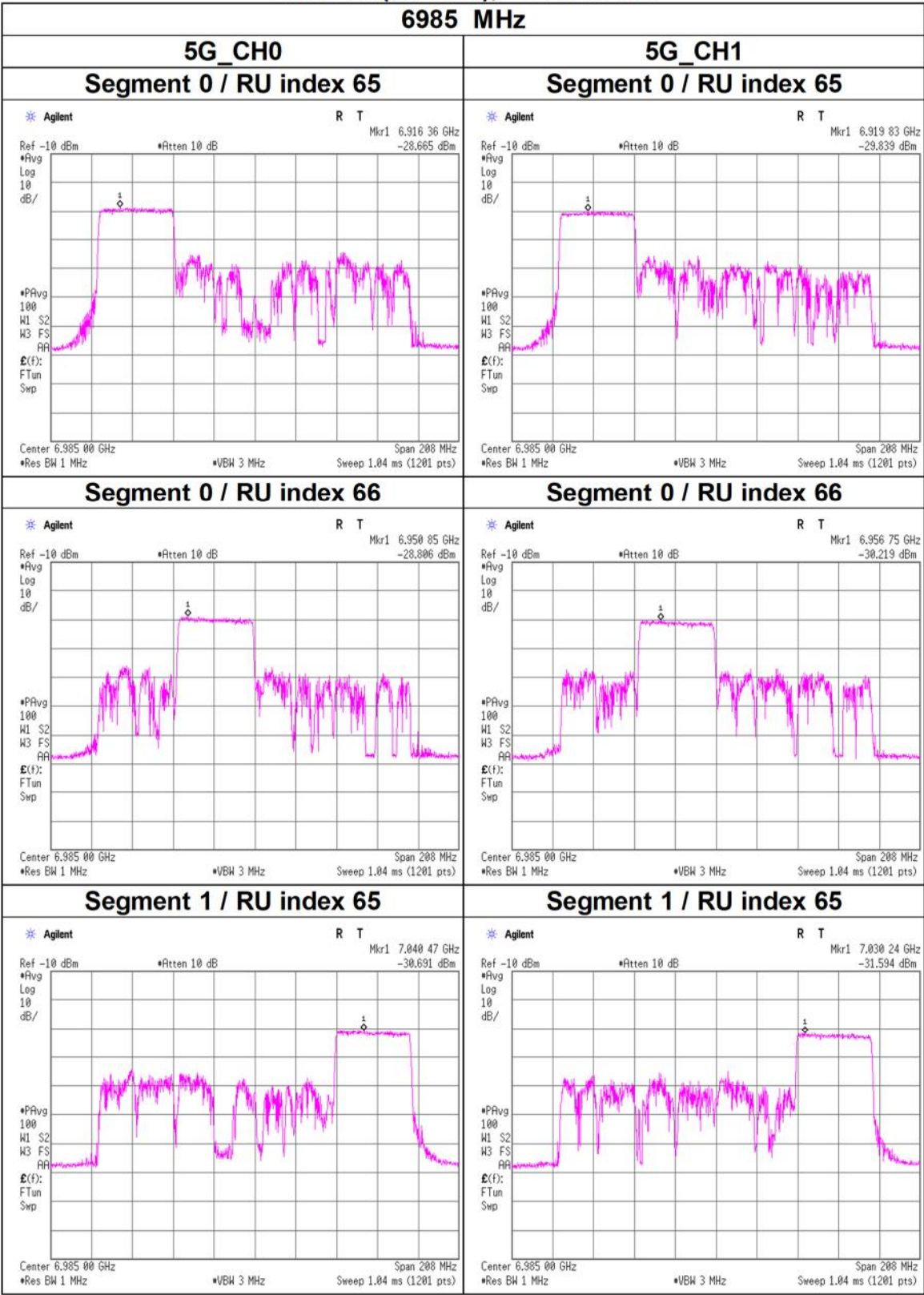
6825 MHz



Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU

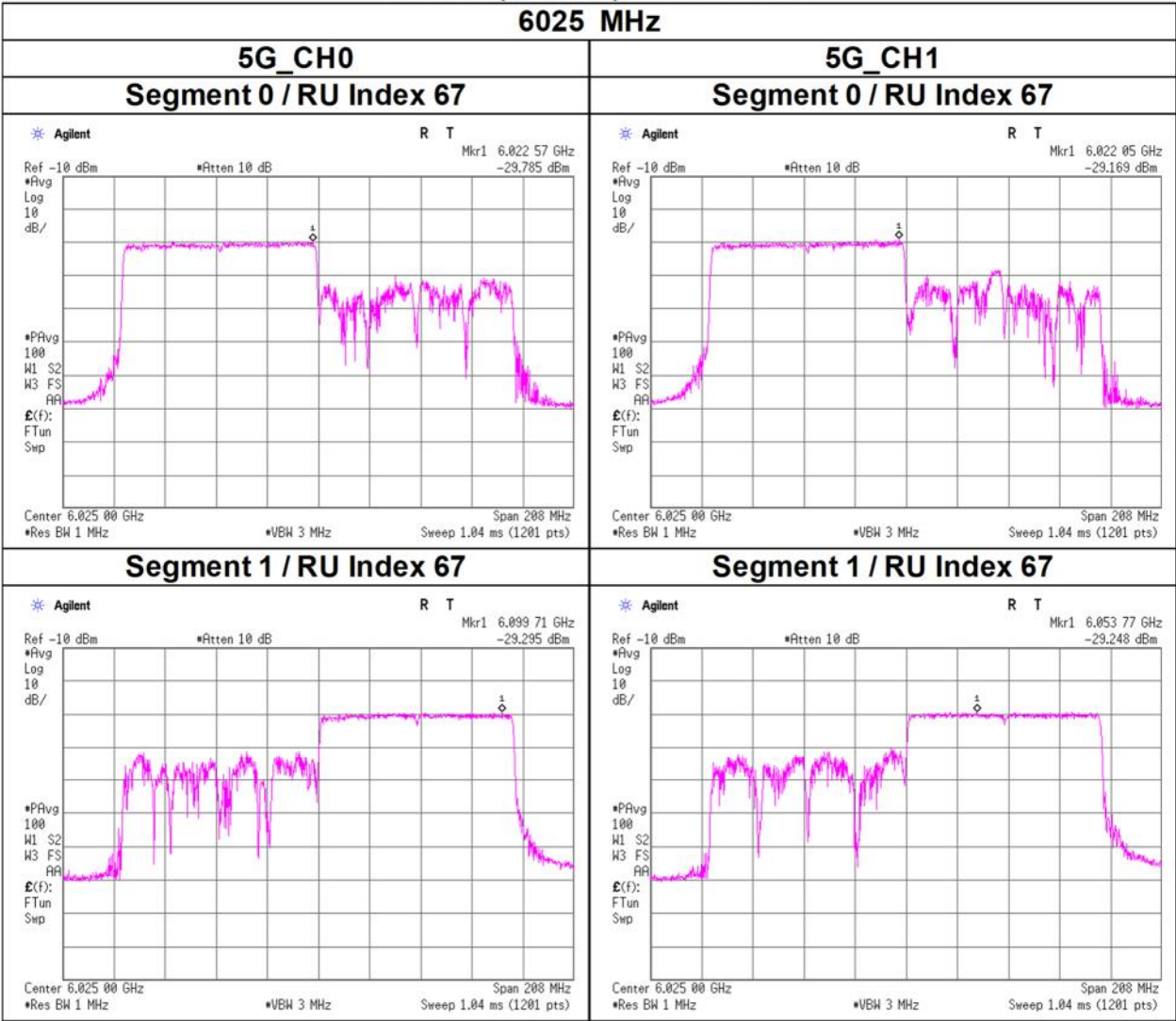
6985 MHz



Maximum Power Spectral Density

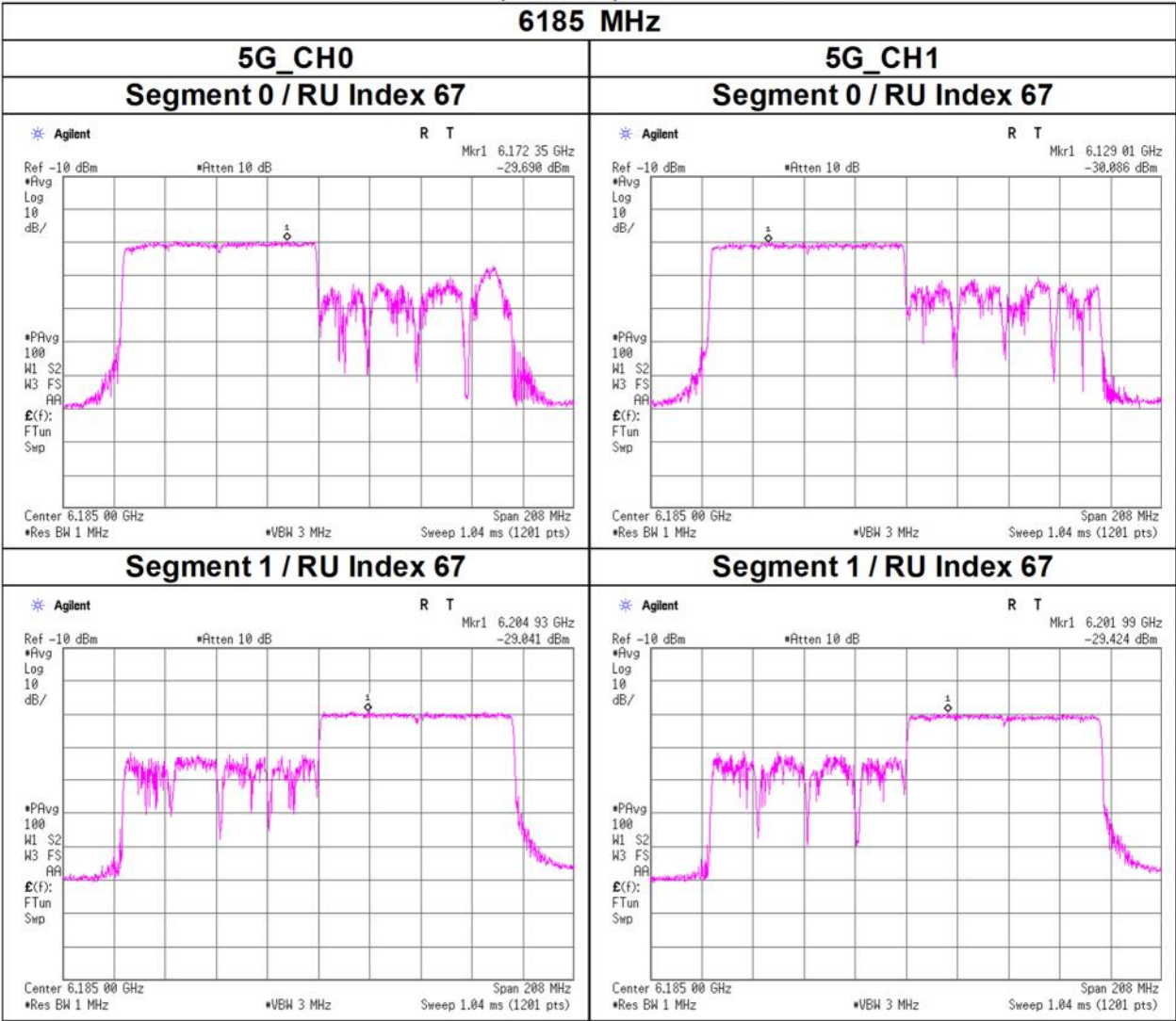
11ax-160(OFDMA), 996-tone RU

6025 MHz



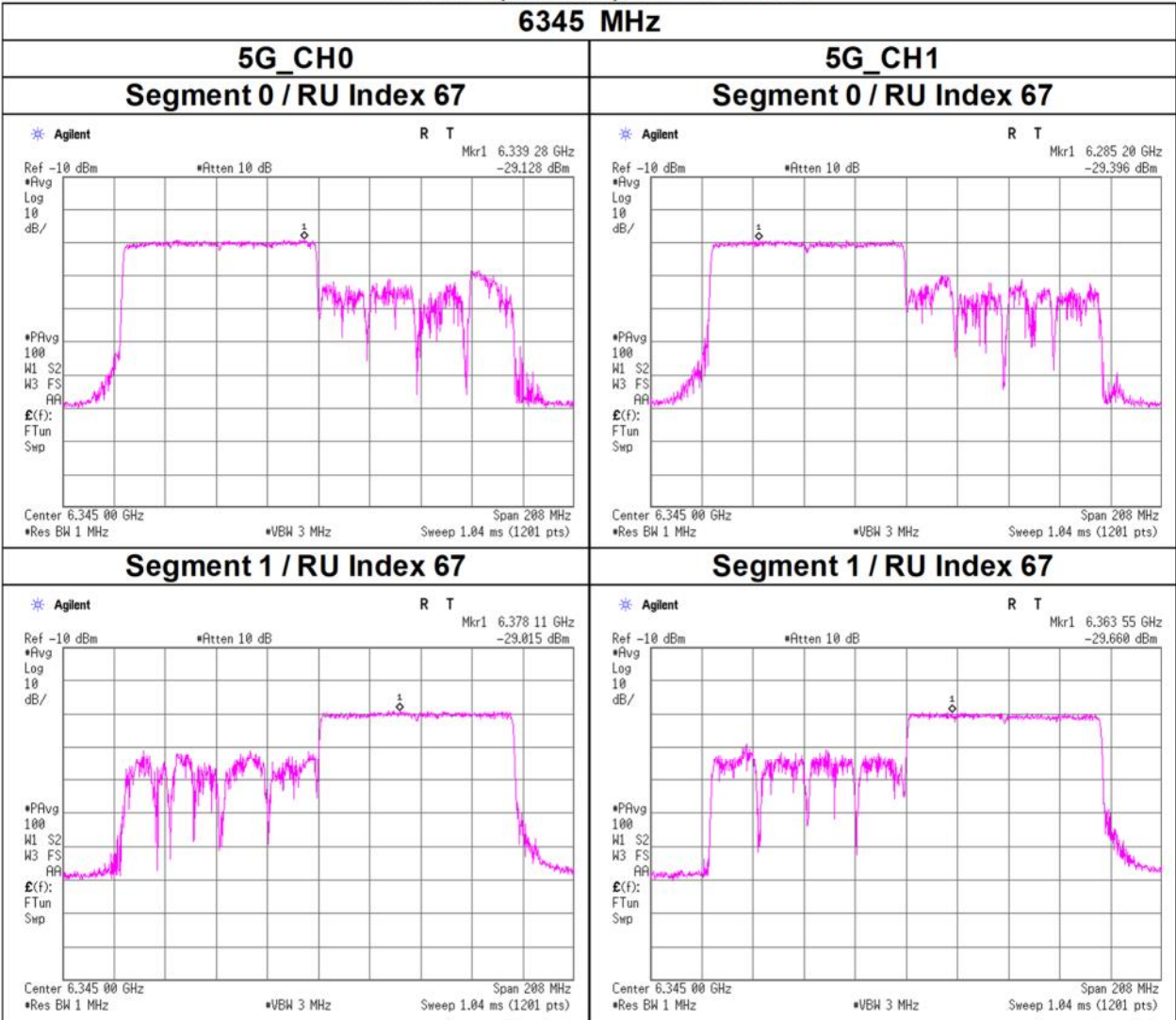
Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU



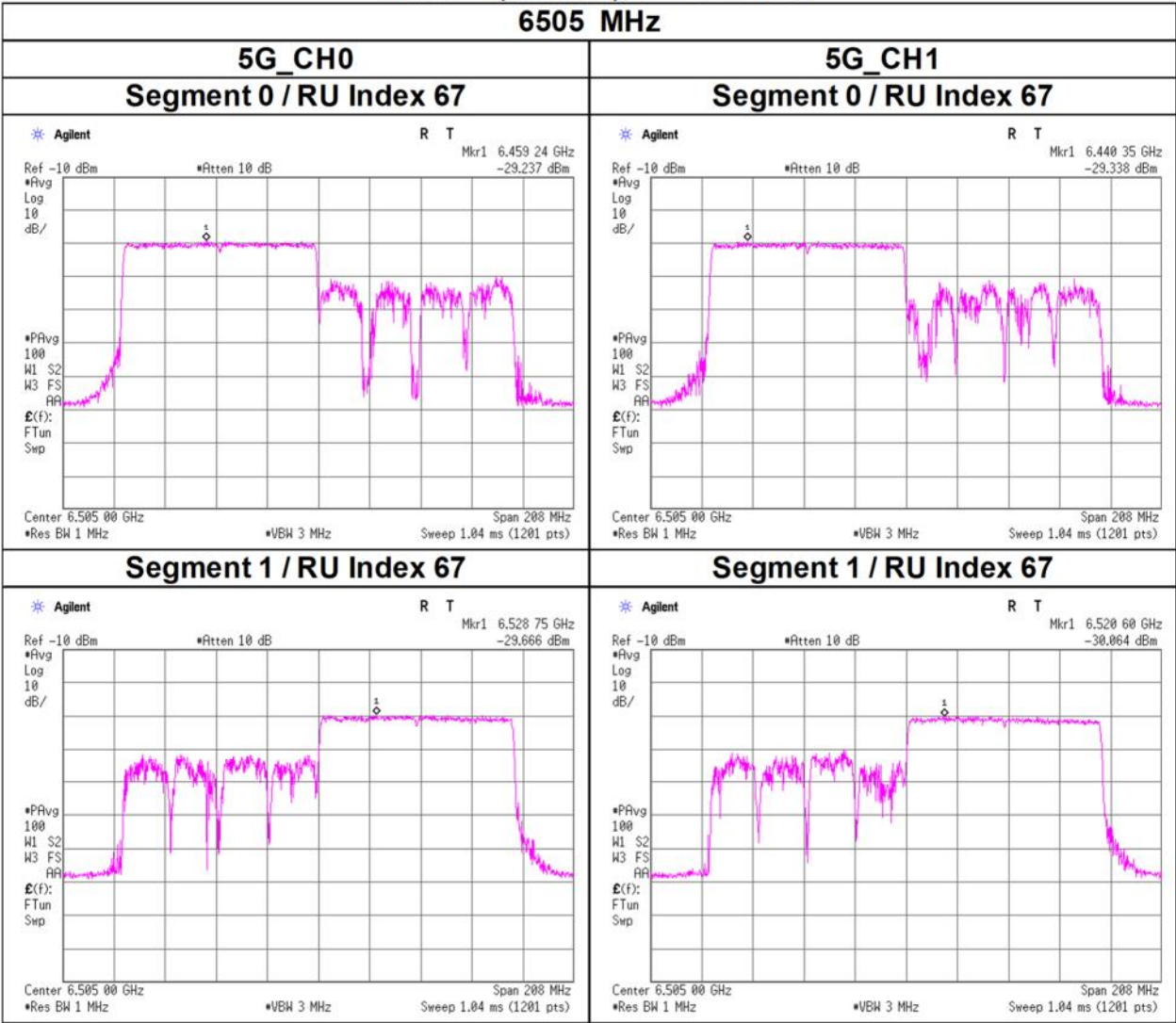
Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU



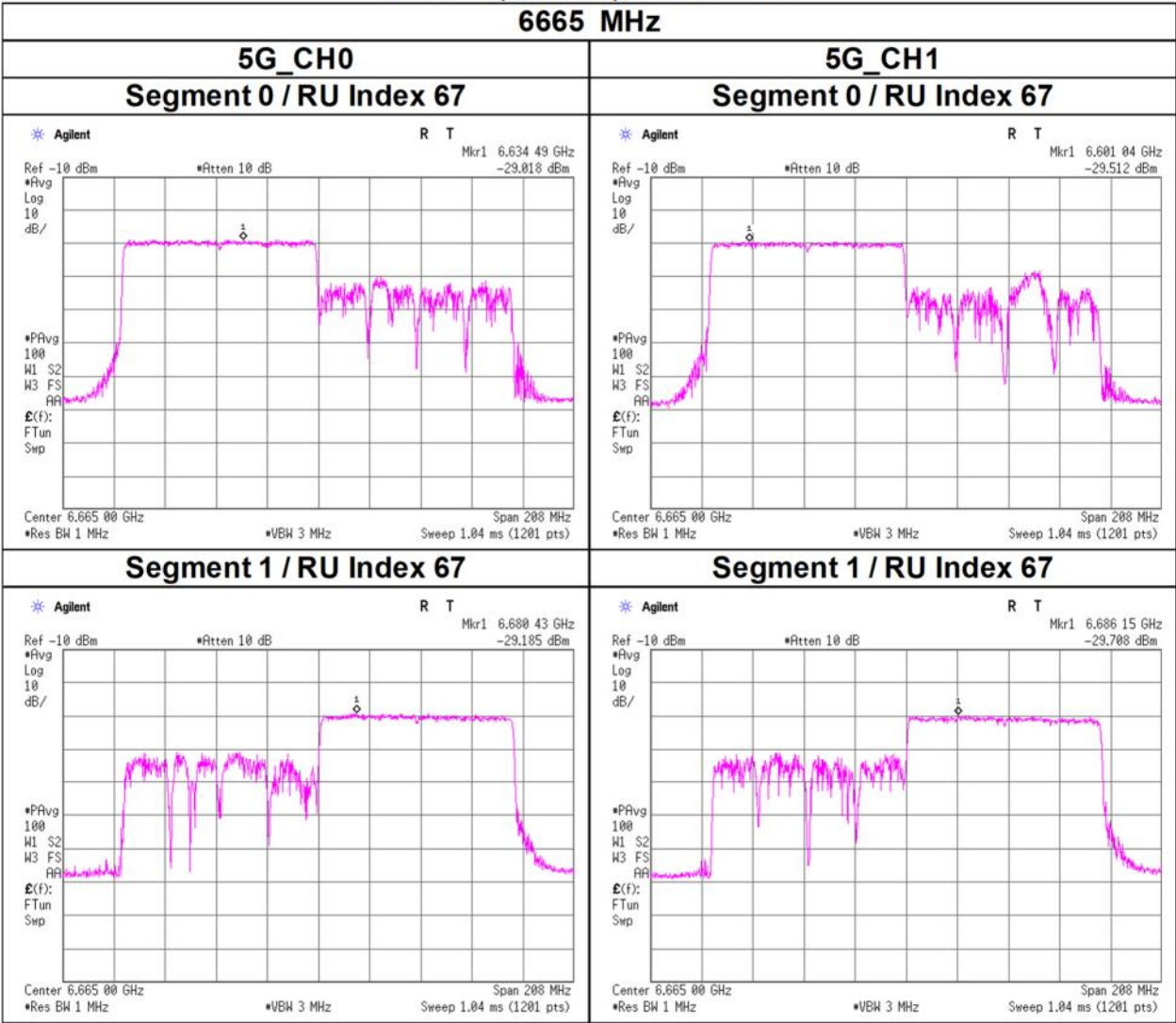
Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU



Maximum Power Spectral Density

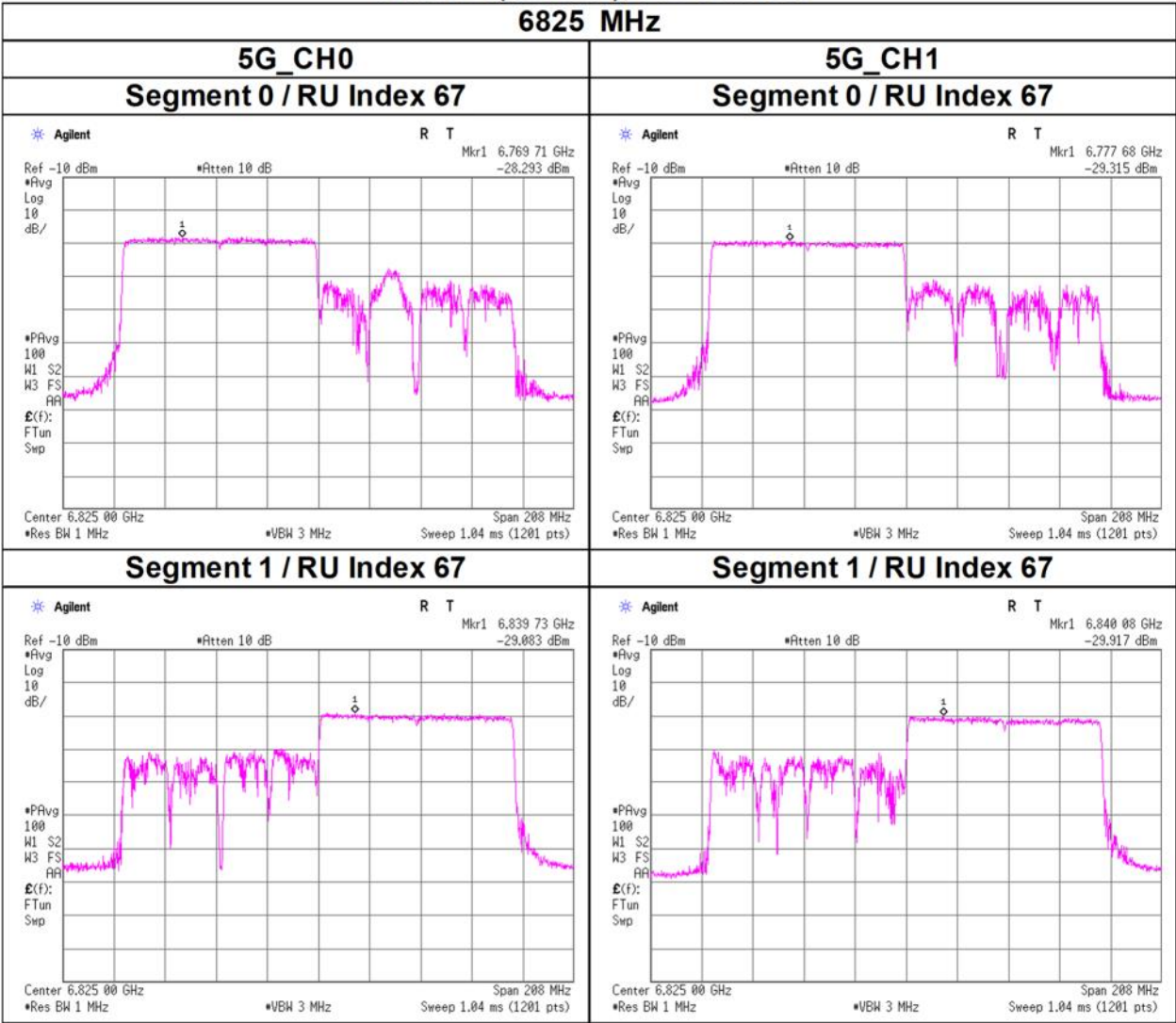
11ax-160(OFDMA), 996-tone RU



Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU

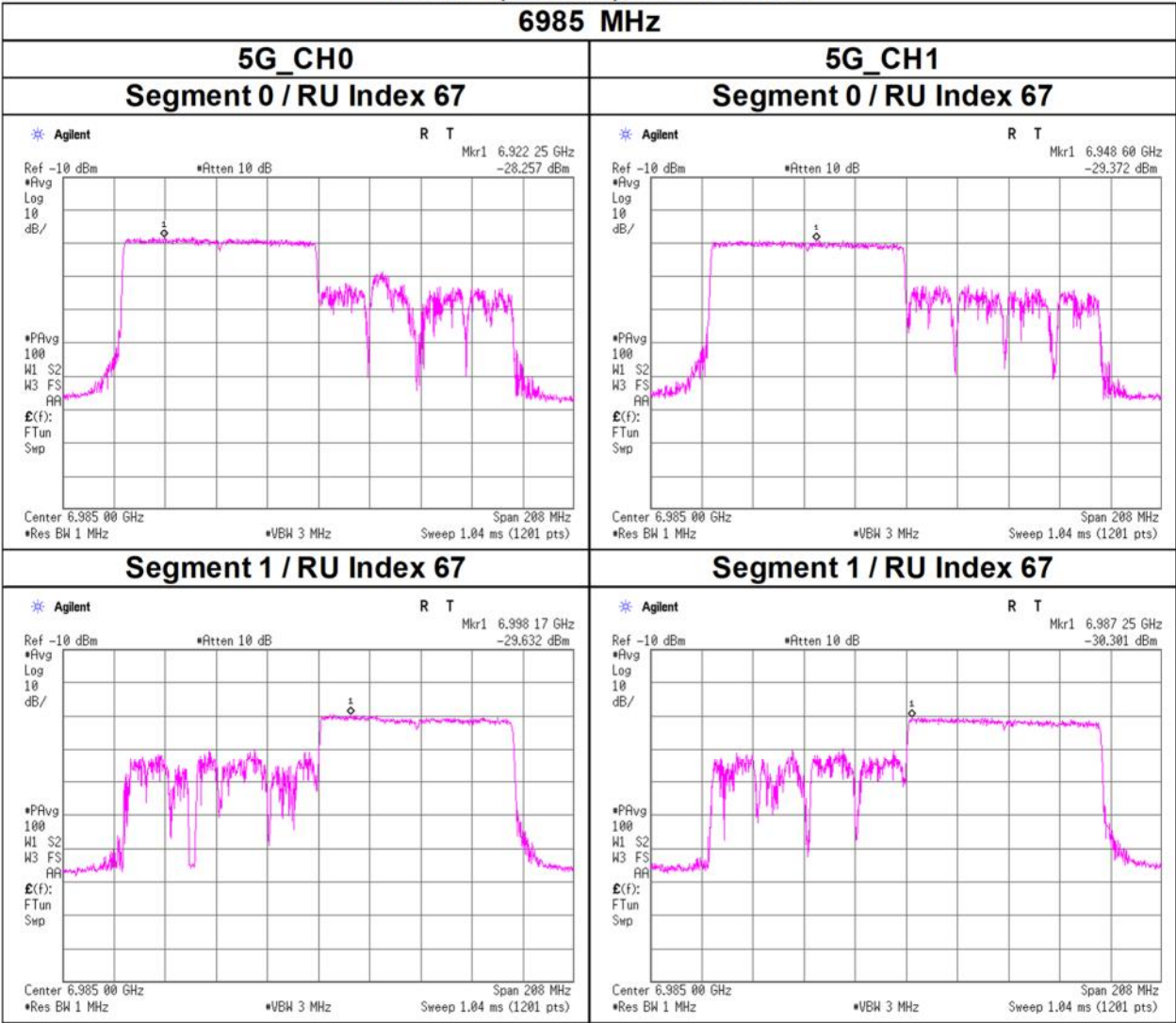
6825 MHz



Maximum Power Spectral Density

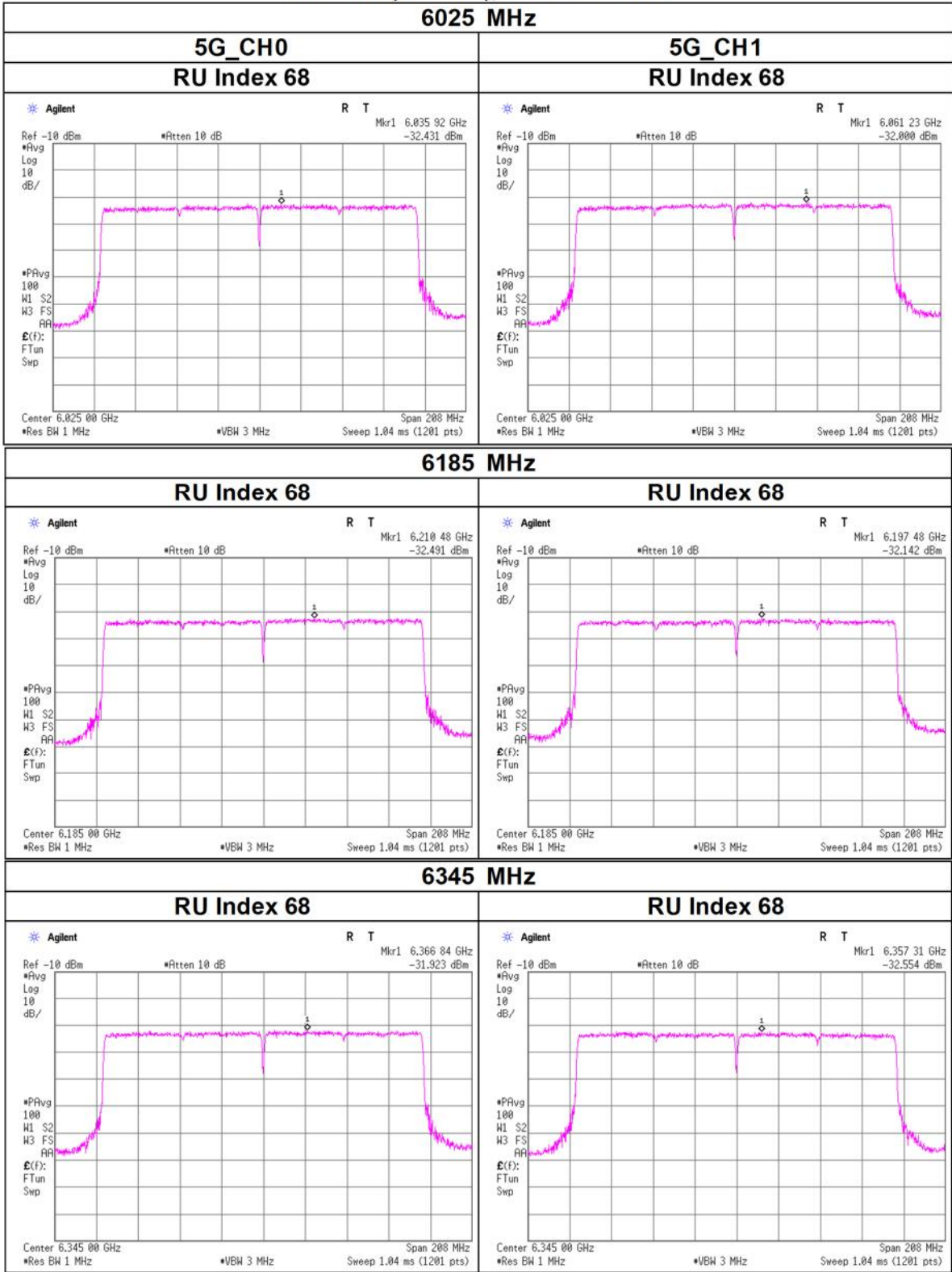
11ax-160(OFDMA), 996-tone RU

6985 MHz



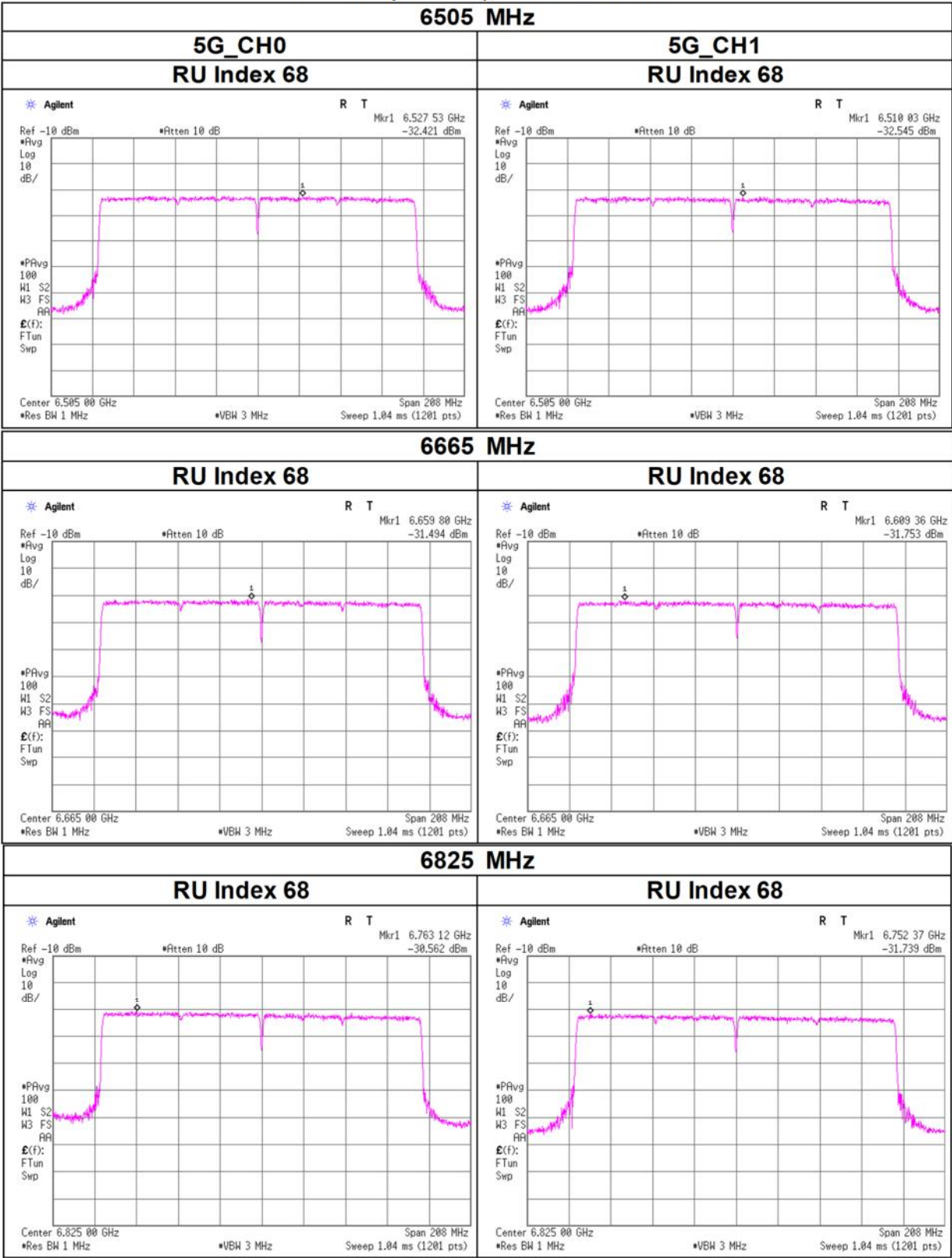
Maximum Power Spectral Density

11ax-160(OFDMA), 2x996-tone RU



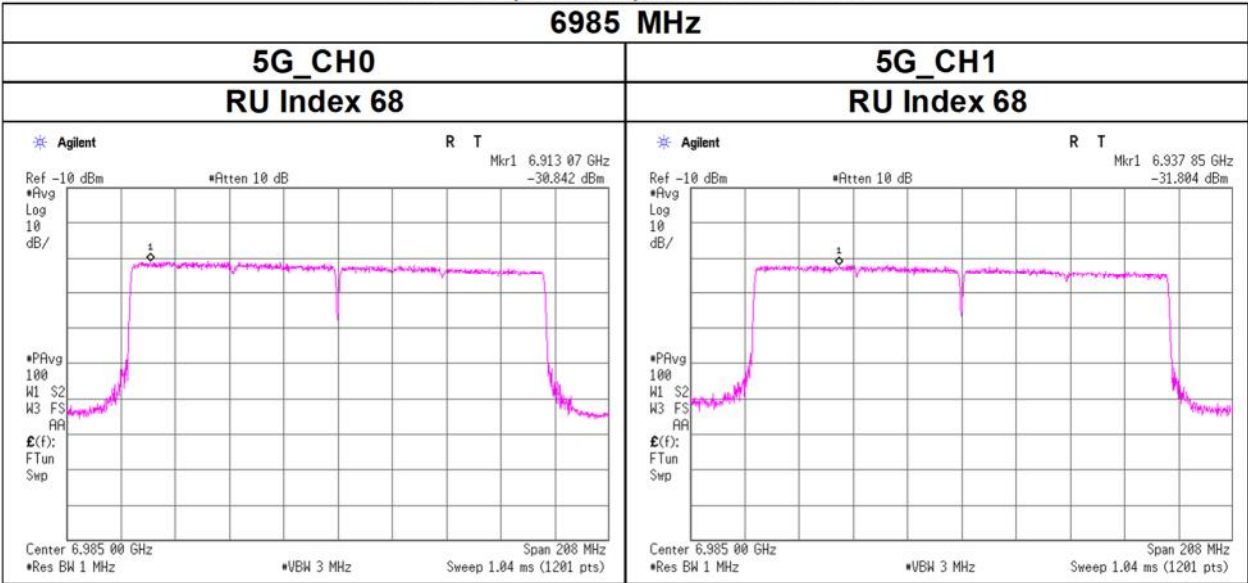
Maximum Power Spectral Density

11ax-160(OFDMA), 2x996-tone RU



Maximum Power Spectral Density

11ax-160(OFDMA), 2x996-tone RU



Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 19, 2024
Temperature / Humidity 23 deg.C, 55 %RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11a, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.66	32.46	-24.99	-	0.00	2.10	57.23	-38.00	-7.0	31.0	149	358	-
Hori.	5925.000	AV	35.63	32.46	-24.99	-	0.00	2.10	45.20	-50.03	-27.0	23.0	149	358	-
Vert.	5925.000	PK	46.94	32.46	-24.99	-	0.00	2.10	56.51	-38.72	-7.0	31.7	152	357	-
Vert.	5925.000	AV	36.04	32.46	-24.99	-	0.00	2.10	45.61	-49.62	-27.0	22.6	152	357	-

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

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

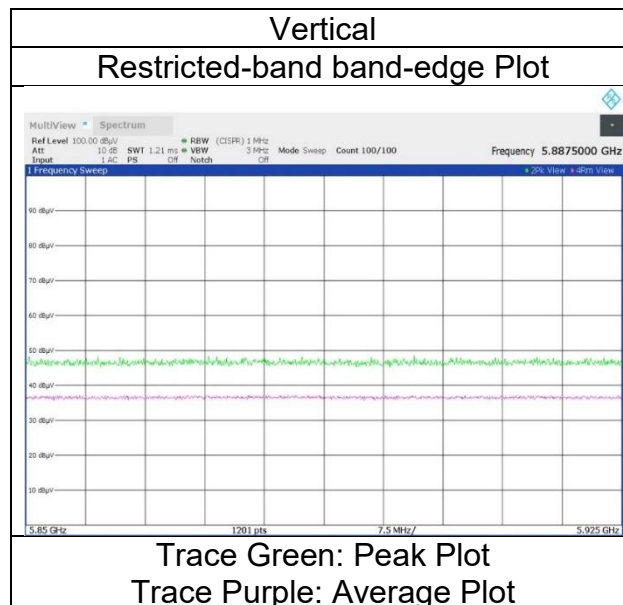
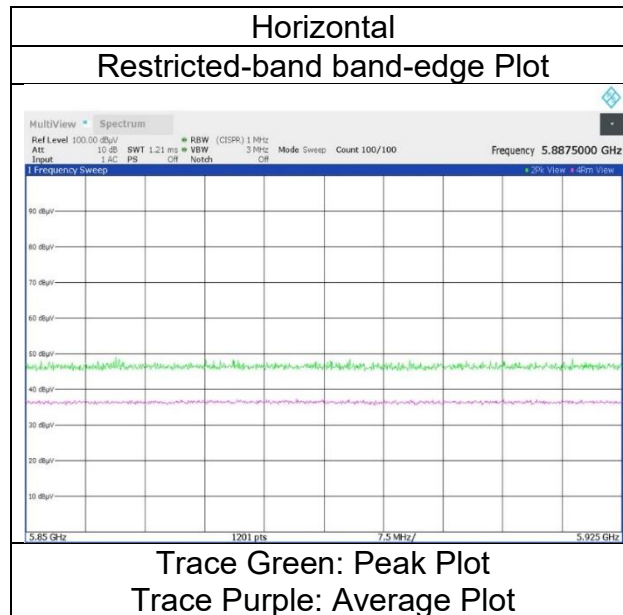
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)

*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 (3.820 m / 3.0 m) = 2.10 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 19, 2024
Temperature / Humidity	23 deg.C, 55 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11a, 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 19, 2024
Temperature / Humidity 23 deg.C, 55 %RH
Engineer Yohsuke Matsuzawa
(1 GHz -10 GHz)
Mode Tx 11a, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.77	36.14	-24.19	-	0.00	2.10	61.82	-33.41	-7.0	26.4	135	358	-
Hori.	7125.000	AV	35.85	36.14	-24.19	-	0.00	2.10	49.90	-45.33	-27.0	18.3	135	358	-
Vert.	7125.000	PK	46.94	36.14	-24.19	-	0.00	2.10	60.99	-34.24	-7.0	27.2	162	8	-
Vert.	7125.000	AV	36.02	36.14	-24.19	-	0.00	2.10	50.07	-45.16	-27.0	18.1	162	8	-

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

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

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

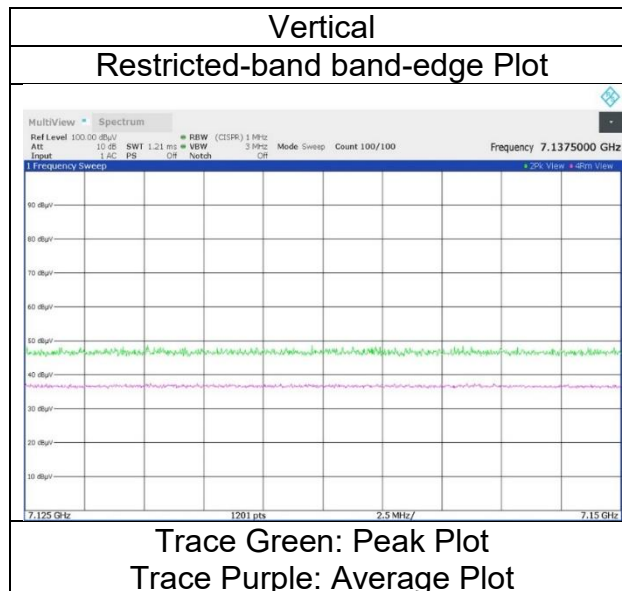
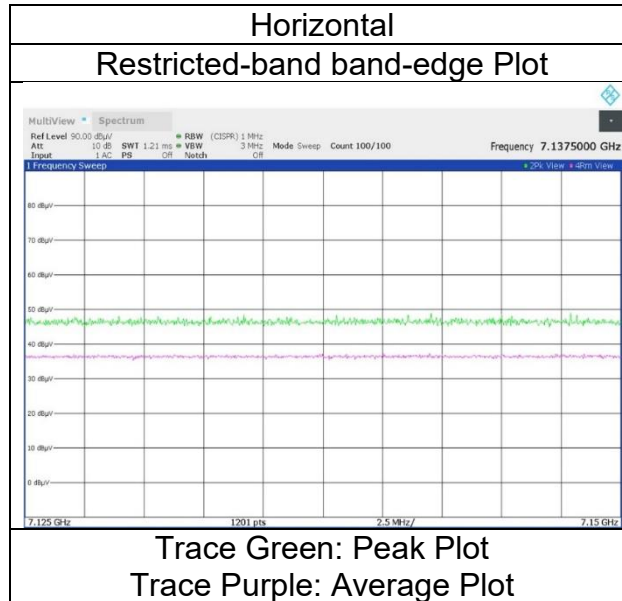
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 19, 2024
Temperature / Humidity	23 deg.C, 55 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11a, 7095 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 19, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 55 %RH 23 deg.C, 65 %RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	11910.000	PK	46.25	38.54	-25.80	-	-9.54	49.45	73.9	24.4	150	0	Floor Noise
Hori.	17865.000	PK	46.58	40.39	-21.61	-	-9.54	55.82	73.9	18.0	150	0	Floor Noise
Hori.	11910.000	AV	35.33	38.54	-25.80	-	-9.54	38.53	53.9	15.3	150	0	Floor Noise
Hori.	17865.000	AV	35.35	40.39	-21.61	-	-9.54	44.59	53.9	9.3	150	0	Floor Noise
Vert.	11910.000	PK	46.32	38.54	-25.80	-	-9.54	49.52	73.9	24.3	150	0	Floor Noise
Vert.	17865.000	PK	46.35	40.39	-21.61	-	-9.54	55.59	73.9	18.3	150	0	Floor Noise
Vert.	11910.000	AV	35.10	38.54	-25.80	-	-9.54	38.30	53.9	15.6	150	0	Floor Noise
Vert.	17865.000	AV	35.00	40.39	-21.61	-	-9.54	44.24	53.9	9.6	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.82	32.46	-24.99	-	0.00	2.10	57.39	-37.84	-7.0	30.8	148	357	-
Hori.	5925.000	AV	36.23	32.46	-24.99	-	0.00	2.10	45.80	-49.43	-27.0	22.4	148	357	-
Vert.	5925.000	PK	47.40	32.46	-24.99	-	0.00	2.10	56.97	-38.26	-7.0	31.2	150	356	-
Vert.	5925.000	AV	35.65	32.46	-24.99	-	0.00	2.10	45.22	-50.01	-27.0	23.0	150	356	-

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

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

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

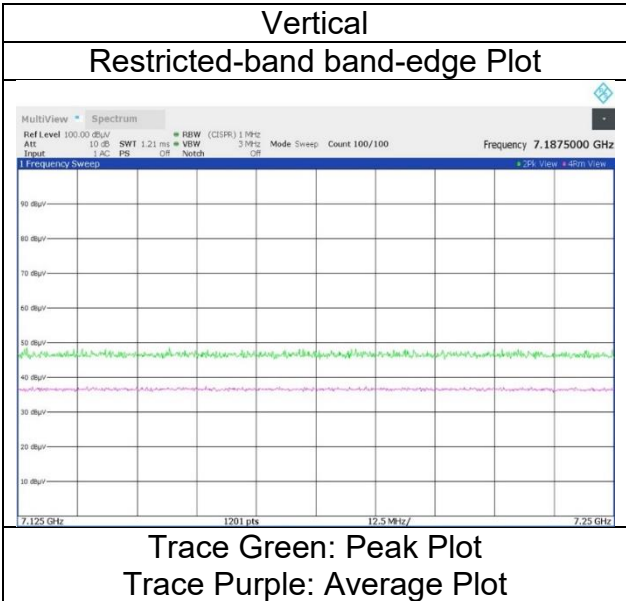
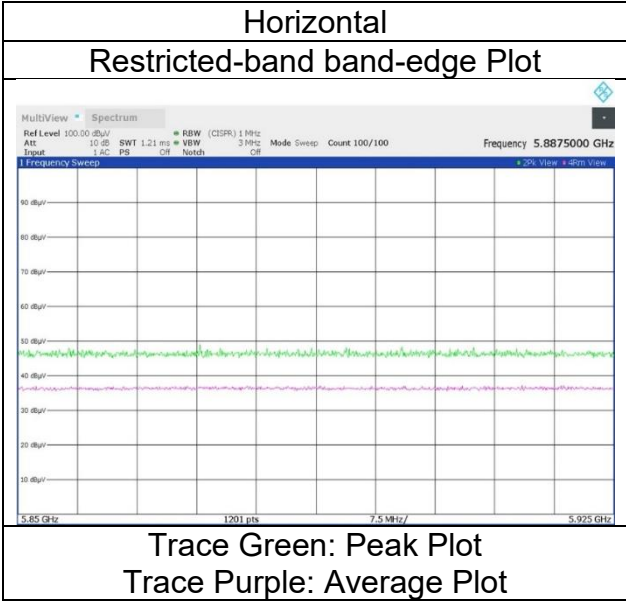
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 19, 2024
Temperature / Humidity	23 deg.C, 55 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDM), 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6195 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	12390.000	PK	46.77	38.36	-25.29	-	-9.54	50.30	73.9	23.6	150	0	Floor Noise
Hori.	12390.000	AV	34.00	38.36	-25.29	-	-9.54	37.53	53.9	16.3	150	0	Floor Noise
Vert.	12390.000	PK	46.22	38.36	-25.29	-	-9.54	49.75	73.9	24.1	150	0	Floor Noise
Vert.	12390.000	AV	33.57	38.36	-25.29	-	-9.54	37.10	53.9	16.8	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6415 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12830.000	PK	46.53	38.63	-25.03	-	0.00	-9.54	50.59	-44.64	-7.0	37.6	150	0	Floor Noise
Hori.	12830.000	AV	34.25	38.63	-25.03	-	0.00	-9.54	38.31	-56.92	-27.0	29.9	150	0	Floor Noise
Vert.	12830.000	PK	46.62	38.63	-25.03	-	0.00	-9.54	50.68	-44.55	-7.0	37.5	150	0	Floor Noise
Vert.	12830.000	AV	34.36	38.63	-25.03	-	0.00	-9.54	38.42	-56.81	-27.0	29.8	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6435 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12870.000	PK	46.55	38.68	-25.02	-	0.00	-9.54	50.67	-44.56	-7.0	37.5	150	0	Floor Noise
Hori.	12870.000	AV	34.21	38.68	-25.02	-	0.00	-9.54	38.33	-56.90	-27.0	29.9	150	0	Floor Noise
Vert.	12870.000	PK	46.11	38.68	-25.02	-	0.00	-9.54	50.23	-45.00	-7.0	38.0	150	0	Floor Noise
Vert.	12870.000	AV	33.85	38.68	-25.02	-	0.00	-9.54	37.97	-57.26	-27.0	30.2	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6475 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12950.000	PK	46.79	38.78	-24.98	-	0.00	-9.54	51.05	-44.18	-7.0	37.1	150	0	Floor Noise
Hori.	12950.000	AV	34.81	38.78	-24.98	-	0.00	-9.54	39.07	-56.16	-27.0	29.1	150	0	Floor Noise
Vert.	12950.000	PK	46.88	38.78	-24.98	-	0.00	-9.54	51.14	-44.09	-7.0	37.0	150	0	Floor Noise
Vert.	12950.000	AV	34.51	38.78	-24.98	-	0.00	-9.54	38.77	-56.46	-27.0	29.4	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6515 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13030.000	PK	46.93	38.84	-24.96	-	0.00	-9.54	51.27	-43.96	-7.0	36.9	150	0	Floor Noise
Hori.	13030.000	AV	34.97	38.84	-24.96	-	0.00	-9.54	39.31	-55.92	-27.0	28.9	150	0	Floor Noise
Vert.	13030.000	PK	46.63	38.84	-24.96	-	0.00	-9.54	50.97	-44.26	-7.0	37.2	150	0	Floor Noise
Vert.	13030.000	AV	34.47	38.84	-24.96	-	0.00	-9.54	38.81	-56.42	-27.0	29.4	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6535 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13070.000	PK	46.72	38.86	-24.92	-	0.00	-9.54	51.12	-44.11	-7.0	37.1	150	0	Floor Noise
Hori.	13070.000	AV	34.25	38.86	-24.92	-	0.00	-9.54	38.65	-56.58	-27.0	29.5	150	0	Floor Noise
Vert.	13070.000	PK	46.70	38.86	-24.92	-	0.00	-9.54	51.10	-44.13	-7.0	37.1	150	0	Floor Noise
Vert.	13070.000	AV	34.01	38.86	-24.92	-	0.00	-9.54	38.41	-56.82	-27.0	29.8	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6695 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	13390.000	PK	46.01	39.09	-24.76	-	-9.54	50.80	73.9	23.1	150	0	Floor Noise
Hori.	13390.000	AV	33.63	39.09	-24.76	-	-9.54	38.42	53.9	15.4	150	0	Floor Noise
Vert.	13390.000	PK	46.56	39.09	-24.76	-	-9.54	51.35	73.9	22.5	150	0	Floor Noise
Vert.	13390.000	AV	34.34	39.09	-24.76	-	-9.54	39.13	53.9	14.7	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6855 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13710.000	PK	46.50	39.07	-24.79	-	0.00	-9.54	51.24	-43.99	-7.0	36.9	150	0	Floor Noise
Hori.	13710.000	AV	34.74	39.07	-24.79	-	0.00	-9.54	39.48	-55.75	-27.0	28.7	150	0	Floor Noise
Vert.	13710.000	PK	46.22	39.07	-24.79	-	0.00	-9.54	50.96	-44.27	-7.0	37.2	150	0	Floor Noise
Vert.	13710.000	AV	34.41	39.07	-24.79	-	0.00	-9.54	39.15	-56.08	-27.0	29.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6875 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13750.000	PK	46.30	39.08	-24.79	-	0.00	-9.54	51.05	-44.18	-7.0	37.1	150	0	Floor Noise
Hori.	13750.000	AV	33.48	39.08	-24.79	-	0.00	-9.54	38.23	-57.00	-27.0	30.0	150	0	Floor Noise
Vert.	13750.000	PK	46.12	39.08	-24.79	-	0.00	-9.54	50.87	-44.36	-7.0	37.3	150	0	Floor Noise
Vert.	13750.000	AV	34.37	39.08	-24.79	-	0.00	-9.54	39.12	-56.11	-27.0	29.1	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6895 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13790.000	PK	46.01	39.08	-24.81	-	0.00	-9.54	50.74	-44.49	-7.0	37.4	150	0	Floor Noise
Hori.	13790.000	AV	34.32	39.08	-24.81	-	0.00	-9.54	39.05	-56.18	-27.0	29.1	150	0	Floor Noise
Vert.	13790.000	PK	47.26	39.08	-24.81	-	0.00	-9.54	51.99	-43.24	-7.0	36.2	150	0	Floor Noise
Vert.	13790.000	AV	34.10	39.08	-24.81	-	0.00	-9.54	38.83	-56.40	-27.0	29.4	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 6995 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13990.000	PK	46.26	39.06	-24.89	-	0.00	-9.54	50.89	-44.34	-7.0	37.3	150	0	Floor Noise
Hori.	13990.000	AV	34.42	39.06	-24.89	-	0.00	-9.54	39.05	-56.18	-27.0	29.1	150	0	Floor Noise
Vert.	13990.000	PK	46.74	39.06	-24.89	-	0.00	-9.54	51.37	-43.86	-7.0	36.8	150	0	Floor Noise
Vert.	13990.000	AV	34.36	39.06	-24.89	-	0.00	-9.54	38.99	-56.24	-27.0	29.2	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 19, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 55 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-20 (OFDM), 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.41	36.14	-24.19	-	0.00	2.10	62.46	-32.77	-7.0	25.7	140	345	-
Hori.	14190.000	PK	46.46	39.08	-24.75	-	0.00	-9.54	51.25	-43.98	-7.0	36.9	150	0	Floor Noise
Hori.	7125.000	AV	35.47	36.14	-24.19	-	0.00	2.10	49.52	-45.71	-27.0	18.7	140	345	-
Hori.	14190.000	AV	33.78	39.08	-24.75	-	0.00	-9.54	38.57	-56.66	-27.0	29.6	150	0	Floor Noise
Vert.	7125.000	PK	47.51	36.14	-24.19	-	0.00	2.10	61.56	-33.67	-7.0	26.6	184	2	-
Vert.	14190.000	PK	47.55	39.08	-24.75	-	0.00	-9.54	52.34	-42.89	-7.0	35.8	150	0	Floor Noise
Vert.	7125.000	AV	36.76	36.14	-24.19	-	0.00	2.10	50.81	-44.42	-27.0	17.4	184	2	-
Vert.	14190.000	AV	34.58	39.08	-24.75	-	0.00	-9.54	39.37	-55.86	-27.0	28.8	150	0	Floor Noise

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

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

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

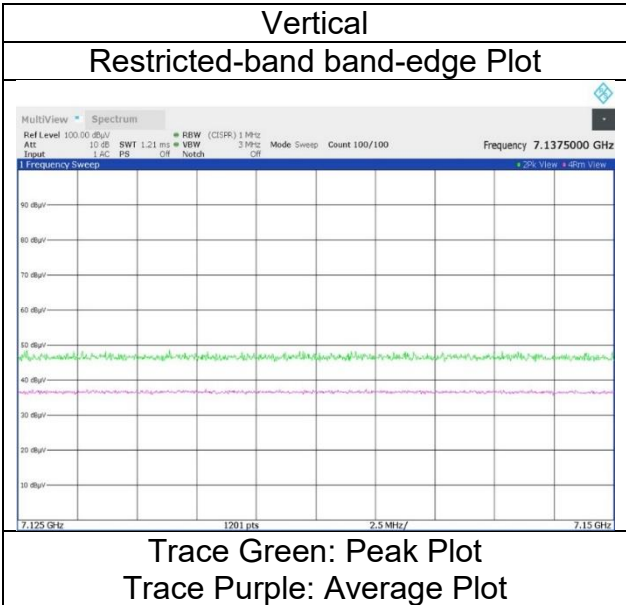
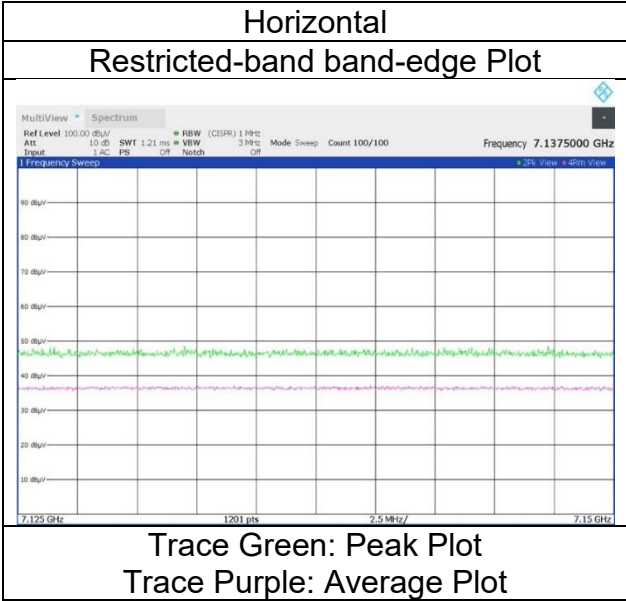
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 19, 2024
Temperature / Humidity	23 deg.C, 55 %RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDM), 7095 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 19, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 55 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 5965 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	11930.000	PK	46.34	38.55	-25.78	-	-9.54	49.57	73.9	24.3	150	0	Floor Noise
Hori.	17895.000	PK	45.88	40.34	-21.59	-	-9.54	55.09	73.9	18.8	150	0	Floor Noise
Hori.	11930.000	AV	34.01	38.55	-25.78	-	-9.54	37.24	53.9	16.6	150	0	Floor Noise
Hori.	17895.000	AV	34.69	40.34	-21.59	-	-9.54	43.90	53.9	10.0	150	0	Floor Noise
Vert.	11930.000	PK	46.35	38.55	-25.78	-	-9.54	49.58	73.9	24.3	150	0	Floor Noise
Vert.	17895.000	PK	46.61	40.34	-21.59	-	-9.54	55.82	73.9	18.0	150	0	Floor Noise
Vert.	11930.000	AV	33.98	38.55	-25.78	-	-9.54	37.21	53.9	16.6	150	0	Floor Noise
Vert.	17895.000	AV	34.92	40.34	-21.59	-	-9.54	44.13	53.9	9.7	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.35	32.46	-24.99	-	0.00	2.10	57.92	-37.31	-7.0	30.3	139	353	-
Hori.	5925.000	AV	36.00	32.46	-24.99	-	0.00	2.10	45.57	-49.66	-27.0	22.6	139	353	-
Vert.	5925.000	PK	46.87	32.46	-24.99	-	0.00	2.10	56.44	-38.79	-7.0	31.7	150	356	-
Vert.	5925.000	AV	36.48	32.46	-24.99	-	0.00	2.10	46.05	-49.18	-27.0	22.1	150	356	-

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

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

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

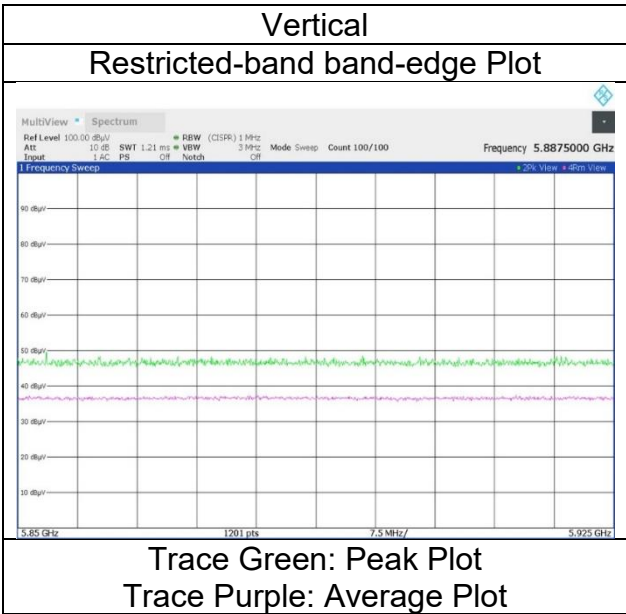
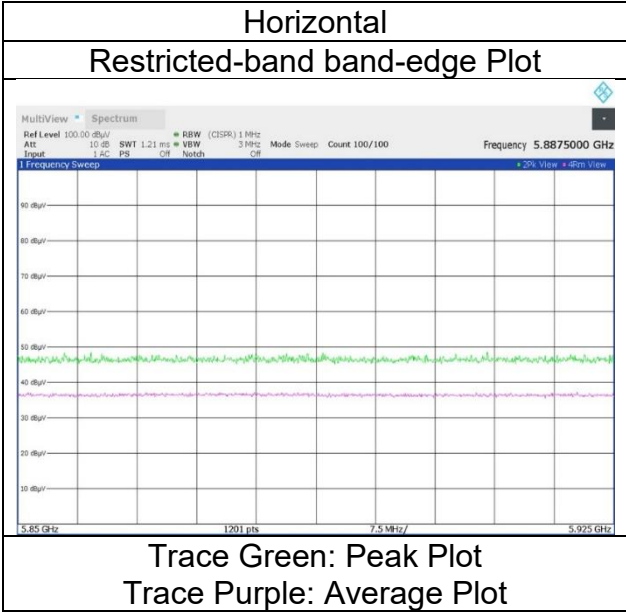
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 19, 2024
Temperature / Humidity	23 deg.C, 55 %RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDM), 5965 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	June 5, 2024	May 28, 2024
Temperature / Humidity	22 deg.C, 60 %RH	23 deg.C, 65 %RH
Engineer	Yosuke Murakami	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-40 (OFDM), 6205 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

(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.	12410.000	PK	46.64	38.34	-25.27	-	-9.54	50.17	73.9	23.7	150	0	Floor Noise
Hori.	12410.000	AV	34.27	38.34	-25.27	-	-9.54	37.80	53.9	16.1	150	0	Floor Noise
Vert.	12410.000	PK	46.15	38.34	-25.27	-	-9.54	49.68	73.9	24.2	150	0	Floor Noise
Vert.	12410.000	AV	34.39	38.34	-25.27	-	-9.54	37.92	53.9	15.9	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6405 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12810.000	PK	45.74	38.61	-25.05	-	0.00	-9.54	49.76	-45.47	-7.0	38.4	150	0	Floor Noise
Hori.	12810.000	AV	34.42	38.61	-25.05	-	0.00	-9.54	38.44	-56.79	-27.0	29.7	150	0	Floor Noise
Vert.	12810.000	PK	46.44	38.61	-25.05	-	0.00	-9.54	50.46	-44.77	-7.0	37.7	150	0	Floor Noise
Vert.	12810.000	AV	33.88	38.61	-25.05	-	0.00	-9.54	37.90	-57.33	-27.0	30.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6445 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12890.000	PK	45.65	38.70	-25.01	-	0.00	-9.54	49.80	-45.43	-7.0	38.4	150	0	Floor Noise
Hori.	12890.000	AV	33.90	38.70	-25.01	-	0.00	-9.54	38.05	-57.18	-27.0	30.1	150	0	Floor Noise
Vert.	12890.000	PK	46.35	38.70	-25.01	-	0.00	-9.54	50.50	-44.73	-7.0	37.7	150	0	Floor Noise
Vert.	12890.000	AV	34.06	38.70	-25.01	-	0.00	-9.54	38.21	-57.02	-27.0	30.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6485 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12970.000	PK	46.50	38.79	-24.98	-	0.00	-9.54	50.77	-44.46	-7.0	37.4	150	0	Floor Noise
Hori.	12970.000	AV	34.15	38.79	-24.98	-	0.00	-9.54	38.42	-56.81	-27.0	29.8	150	0	Floor Noise
Vert.	12970.000	PK	46.11	38.79	-24.98	-	0.00	-9.54	50.38	-44.85	-7.0	37.8	150	0	Floor Noise
Vert.	12970.000	AV	34.96	38.79	-24.98	-	0.00	-9.54	39.23	-56.00	-27.0	29.0	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6525 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13050.000	PK	45.77	38.85	-24.95	-	0.00	-9.54	50.13	-45.10	-7.0	38.1	150	0	Floor Noise
Hori.	13050.000	AV	34.18	38.85	-24.95	-	0.00	-9.54	38.54	-56.69	-27.0	29.6	150	0	Floor Noise
Vert.	13050.000	PK	45.91	38.85	-24.95	-	0.00	-9.54	50.27	-44.96	-7.0	37.9	150	0	Floor Noise
Vert.	13050.000	AV	34.93	38.85	-24.95	-	0.00	-9.54	39.29	-55.94	-27.0	28.9	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6565 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13130.000	PK	46.09	38.89	-24.91	-	0.00	-9.54	50.53	-44.70	-7.0	37.7	150	0	Floor Noise
Hori.	13130.000	AV	34.86	38.89	-24.91	-	0.00	-9.54	39.30	-55.93	-27.0	28.9	150	0	Floor Noise
Vert.	13130.000	PK	45.79	38.89	-24.91	-	0.00	-9.54	50.23	-45.00	-7.0	38.0	150	0	Floor Noise
Vert.	13130.000	AV	33.88	38.89	-24.91	-	0.00	-9.54	38.32	-56.91	-27.0	29.9	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6685 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	13370.000	PK	45.73	39.07	-24.76	-	-9.54	50.50	73.9	23.4	150	0	Floor Noise
Hori.	13370.000	AV	34.20	39.07	-24.76	-	-9.54	38.97	53.9	14.9	150	0	Floor Noise
Vert.	13370.000	PK	45.73	39.07	-24.76	-	-9.54	50.50	73.9	23.4	150	0	Floor Noise
Vert.	13370.000	AV	34.38	39.07	-24.76	-	-9.54	39.15	53.9	14.7	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6845 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13690.000	PK	45.95	39.08	-24.78	-	0.00	-9.54	50.71	-44.52	-7.0	37.5	150	0	Floor Noise
Hori.	13690.000	AV	33.96	39.08	-24.78	-	0.00	-9.54	38.72	-56.51	-27.0	29.5	150	0	Floor Noise
Vert.	13690.000	PK	45.85	39.08	-24.78	-	0.00	-9.54	50.61	-44.62	-7.0	37.6	150	0	Floor Noise
Vert.	13690.000	AV	34.02	39.08	-24.78	-	0.00	-9.54	38.78	-56.45	-27.0	29.4	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6885 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13770.000	PK	46.36	39.09	-24.80	-	0.00	-9.54	51.11	-44.12	-7.0	37.1	150	0	Floor Noise
Hori.	13770.000	AV	33.81	39.09	-24.80	-	0.00	-9.54	38.56	-56.67	-27.0	29.6	150	0	Floor Noise
Vert.	13770.000	PK	45.98	39.09	-24.80	-	0.00	-9.54	50.73	-44.50	-7.0	37.5	150	0	Floor Noise
Vert.	13770.000	AV	33.86	39.09	-24.80	-	0.00	-9.54	38.61	-56.62	-27.0	29.6	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 6925 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13850.000	PK	45.39	39.07	-24.84	-	0.00	-9.54	50.08	-45.15	-7.0	38.1	150	0	Floor Noise
Hori.	13850.000	AV	34.22	39.07	-24.84	-	0.00	-9.54	38.91	-56.32	-27.0	29.3	150	0	Floor Noise
Vert.	13850.000	PK	45.91	39.07	-24.84	-	0.00	-9.54	50.60	-44.63	-7.0	37.6	150	0	Floor Noise
Vert.	13850.000	AV	34.38	39.07	-24.84	-	0.00	-9.54	39.07	-56.16	-27.0	29.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20 \log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 7005 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	14010.000	PK	46.98	39.06	-24.90	-	0.00	-9.54	51.60	-43.63	-7.0	36.6	150	0	Floor Noise
Hori.	14010.000	AV	34.75	39.06	-24.90	-	0.00	-9.54	39.37	-55.86	-27.0	28.8	150	0	Floor Noise
Vert.	14010.000	PK	46.25	39.06	-24.90	-	0.00	-9.54	50.87	-44.36	-7.0	37.3	150	0	Floor Noise
Vert.	14010.000	AV	34.29	39.06	-24.90	-	0.00	-9.54	38.91	-56.32	-27.0	29.3	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 21, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 70 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-40 (OFDM), 7085 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.23	36.14	-24.19	-	0.00	2.10	61.28	-33.95	-7.0	26.9	149	357	-
Hori.	14170.000	PK	46.12	39.07	-24.78	-	0.00	-9.54	50.87	-44.36	-7.0	37.3	150	0	Floor Noise
Hori.	7125.000	AV	35.01	36.14	-24.19	-	0.00	2.10	49.06	-46.17	-27.0	19.1	149	357	-
Hori.	14170.000	AV	34.15	39.07	-24.78	-	0.00	-9.54	38.90	-56.33	-27.0	29.3	150	0	Floor Noise
Vert.	7125.000	PK	46.51	36.14	-24.19	-	0.00	2.10	60.56	-34.67	-7.0	27.6	151	359	-
Vert.	14170.000	PK	45.96	39.07	-24.78	-	0.00	-9.54	50.71	-44.52	-7.0	37.5	150	0	Floor Noise
Vert.	7125.000	AV	36.23	36.14	-24.19	-	0.00	2.10	50.28	-44.95	-27.0	17.9	151	359	-
Vert.	14170.000	AV	34.45	39.07	-24.78	-	0.00	-9.54	39.20	-56.03	-27.0	29.0	150	0	Floor Noise

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

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

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

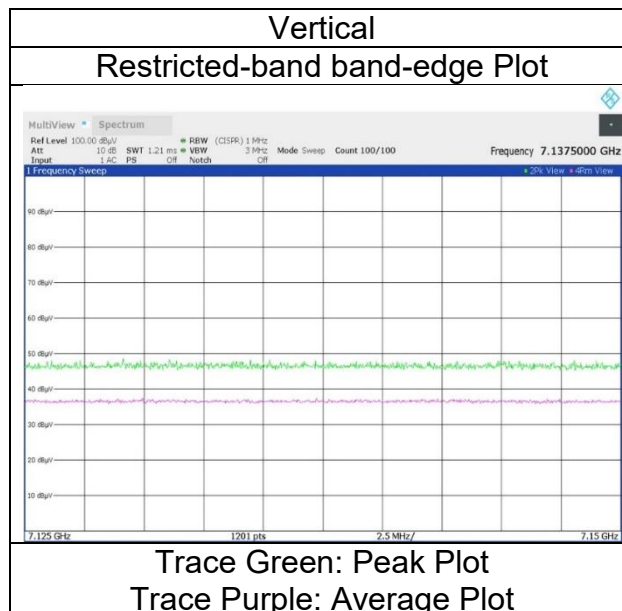
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 21, 2024
Temperature / Humidity	22 deg.C, 70 %RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-40 (OFDM), 7085 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 22, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 56 %RH 23 deg.C, 65 %RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 5985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	11970.000	PK	46.16	38.60	-25.78	-	-9.54	49.44	73.9	24.4	150	0	Floor Noise
Hori.	17955.000	PK	46.15	40.36	-21.59	-	-9.54	55.38	73.9	18.5	150	0	Floor Noise
Hori.	11970.000	AV	34.26	38.60	-25.78	-	-9.54	37.54	53.9	16.3	150	0	Floor Noise
Hori.	17955.000	AV	34.07	40.36	-21.59	-	-9.54	43.30	53.9	10.6	150	0	Floor Noise
Vert.	11970.000	PK	45.85	38.60	-25.78	-	-9.54	49.13	73.9	24.7	150	0	Floor Noise
Vert.	17955.000	PK	46.03	40.36	-21.59	-	-9.54	55.26	73.9	18.6	150	0	Floor Noise
Vert.	11970.000	AV	34.66	38.60	-25.78	-	-9.54	37.94	53.9	15.9	150	0	Floor Noise
Vert.	17955.000	AV	33.57	40.36	-21.59	-	-9.54	42.80	53.9	11.1	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.66	32.46	-24.99	-	0.00	2.10	56.23	-39.00	-7.0	32.0	150	358	-
Hori.	5925.000	AV	36.36	32.46	-24.99	-	0.00	2.10	45.93	-49.30	-27.0	22.3	150	358	-
Vert.	5925.000	PK	46.20	32.46	-24.99	-	0.00	2.10	55.77	-39.46	-7.0	32.4	107	350	-
Vert.	5925.000	AV	35.47	32.46	-24.99	-	0.00	2.10	45.04	-50.19	-27.0	23.1	107	350	-

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

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

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

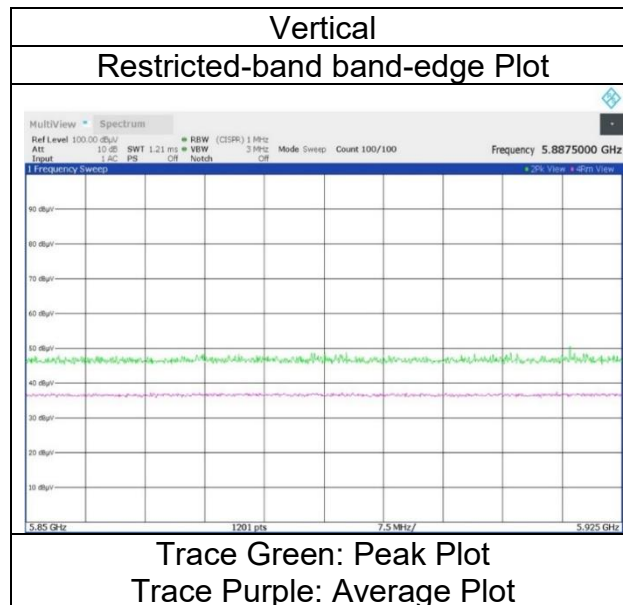
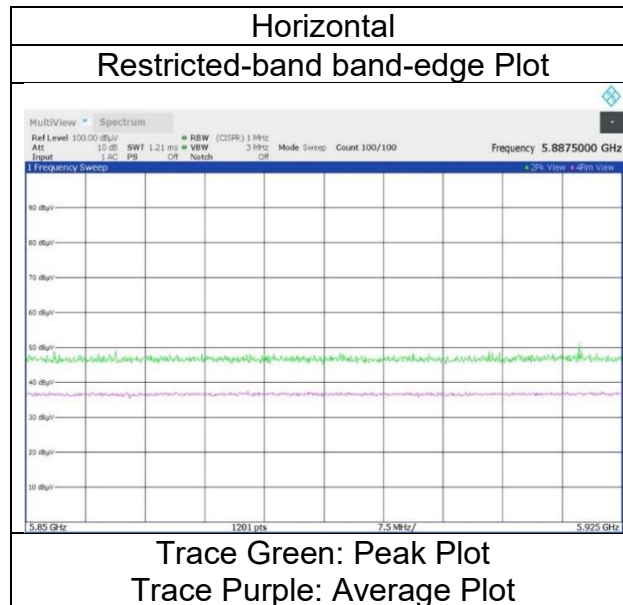
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 22, 2024
Temperature / Humidity	23 deg.C, 56 %RH
Engineer	Yohsuke Matsuzawa
	(1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDM), 5985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	June 5, 2024	May 28, 2024
Temperature / Humidity	22 deg.C, 60 %RH	23 deg.C, 65 %RH
Engineer	Yosuke Murakami	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-80 (OFDM), 6225 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

(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.	12450.000	PK	45.93	38.33	-25.21	-	-9.54	49.51	73.9	24.3	150	0	Floor Noise
Hori.	12450.000	AV	34.55	38.33	-25.21	-	-9.54	38.13	53.9	15.7	150	0	Floor Noise
Vert.	12450.000	PK	46.14	38.33	-25.21	-	-9.54	49.72	73.9	24.1	150	0	Floor Noise
Vert.	12450.000	AV	34.70	38.33	-25.21	-	-9.54	38.28	53.9	15.6	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6385 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12770.000	PK	45.48	38.53	-25.06	-	0.00	-9.54	49.41	-45.82	-7.0	38.8	150	0	Floor Noise
Hori.	12770.000	AV	33.81	38.53	-25.06	-	0.00	-9.54	37.74	-57.49	-27.0	30.4	150	0	Floor Noise
Vert.	12770.000	PK	45.38	38.53	-25.06	-	0.00	-9.54	49.31	-45.92	-7.0	38.9	150	0	Floor Noise
Vert.	12770.000	AV	34.07	38.53	-25.06	-	0.00	-9.54	38.00	-57.23	-27.0	30.2	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6465 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12930.000	PK	46.42	38.76	-25.00	-	0.00	-9.54	50.64	-44.59	-7.0	37.5	150	0	Floor Noise
Hori.	12930.000	AV	34.50	38.76	-25.00	-	0.00	-9.54	38.72	-56.51	-27.0	29.5	150	0	Floor Noise
Vert.	12930.000	PK	45.83	38.76	-25.00	-	0.00	-9.54	50.05	-45.18	-7.0	38.1	150	0	Floor Noise
Vert.	12930.000	AV	34.72	38.76	-25.00	-	0.00	-9.54	38.94	-56.29	-27.0	29.2	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6545 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13090.000	PK	46.74	38.86	-24.91	-	0.00	-9.54	51.15	-44.08	-7.0	37.0	150	0	Floor Noise
Hori.	13090.000	AV	34.81	38.86	-24.91	-	0.00	-9.54	39.22	-56.01	-27.0	29.0	150	0	Floor Noise
Vert.	13090.000	PK	45.34	38.86	-24.91	-	0.00	-9.54	49.75	-45.48	-7.0	38.4	150	0	Floor Noise
Vert.	13090.000	AV	34.20	38.86	-24.91	-	0.00	-9.54	38.61	-56.62	-27.0	29.6	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	June 5, 2024	May 28, 2024
Temperature / Humidity	22 deg.C, 60 %RH	23 deg.C, 65 %RH
Engineer	Yosuke Murakami	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-80 (OFDM), 6625 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

(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.	13250.000	PK	46.28	38.97	-24.84	-	-9.54	50.87	73.9	23.0	150	0	Floor Noise
Hori.	13250.000	AV	34.13	38.97	-24.84	-	-9.54	38.72	53.9	15.1	150	0	Floor Noise
Vert.	13250.000	PK	45.72	38.97	-24.84	-	-9.54	50.31	73.9	23.5	150	0	Floor Noise
Vert.	13250.000	AV	33.64	38.97	-24.84	-	-9.54	38.23	53.9	15.6	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6705 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13410.000	PK	46.37	39.10	-24.76	-	0.00	-9.54	51.17	-44.06	-7.0	37.0	150	0	Floor Noise
Hori.	13410.000	AV	34.15	39.10	-24.76	-	0.00	-9.54	38.95	-56.28	-27.0	29.2	150	0	Floor Noise
Vert.	13410.000	PK	45.31	39.10	-24.76	-	0.00	-9.54	50.11	-45.12	-7.0	38.1	150	0	Floor Noise
Vert.	13410.000	AV	34.70	39.10	-24.76	-	0.00	-9.54	39.50	-55.73	-27.0	28.7	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6865 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13730.000	PK	45.56	39.07	-24.70	-	0.00	-9.54	50.39	-44.84	-7.0	37.8	150	0	Floor Noise
Hori.	13730.000	AV	34.20	39.07	-24.70	-	0.00	-9.54	39.03	-56.20	-27.0	29.2	150	0	Floor Noise
Vert.	13730.000	PK	45.69	39.07	-24.70	-	0.00	-9.54	50.52	-44.71	-7.0	37.7	150	0	Floor Noise
Vert.	13730.000	AV	33.85	39.07	-24.70	-	0.00	-9.54	38.68	-56.55	-27.0	29.5	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 6945 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13890.000	PK	45.58	39.08	-24.74	-	0.00	-9.54	50.38	-44.85	-7.0	37.8	150	0	Floor Noise
Hori.	13890.000	AV	34.32	39.08	-24.74	-	0.00	-9.54	39.12	-56.11	-27.0	29.1	150	0	Floor Noise
Vert.	13890.000	PK	45.74	39.08	-24.74	-	0.00	-9.54	50.54	-44.69	-7.0	37.6	150	0	Floor Noise
Vert.	13890.000	AV	34.22	39.08	-24.74	-	0.00	-9.54	39.02	-56.21	-27.0	29.2	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 22, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 56 %RH 23 deg.C, 65 %RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-80 (OFDM), 7025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.86	36.14	-24.19	-	0.00	2.10	60.91	-34.32	-7.0	27.3	254	186	-
Hori.	14050.000	PK	46.22	39.04	-24.76	-	0.00	-9.54	50.96	-44.27	-7.0	37.2	150	0	Floor Noise
Hori.	7125.000	AV	36.58	36.14	-24.19	-	0.00	2.10	50.63	-44.60	-27.0	17.6	254	186	-
Hori.	14050.000	AV	33.64	39.04	-24.76	-	0.00	-9.54	38.38	-56.85	-27.0	29.8	150	0	Floor Noise
Vert.	7125.000	PK	46.06	36.14	-24.19	-	0.00	2.10	60.11	-35.12	-7.0	28.1	149	193	-
Vert.	14050.000	PK	46.20	39.04	-24.76	-	0.00	-9.54	50.94	-44.29	-7.0	37.2	150	0	Floor Noise
Vert.	7125.000	AV	35.54	36.14	-24.19	-	0.00	2.10	49.59	-45.64	-27.0	18.6	149	193	-
Vert.	14050.000	AV	34.36	39.04	-24.76	-	0.00	-9.54	39.10	-56.13	-27.0	29.1	150	0	Floor Noise

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

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

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

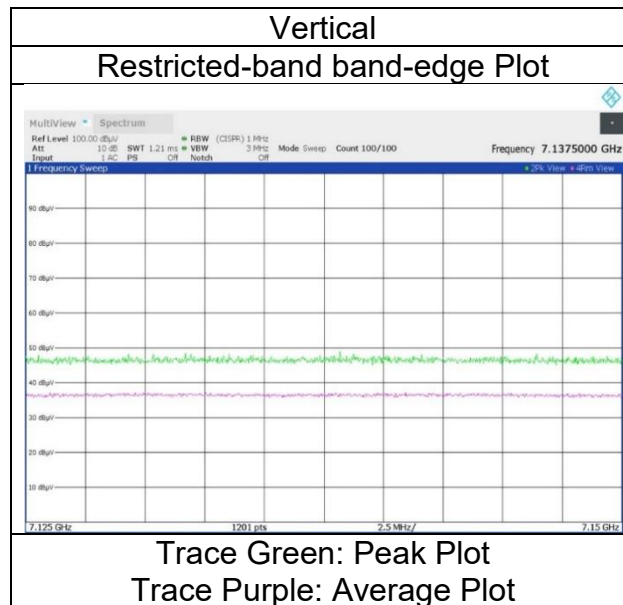
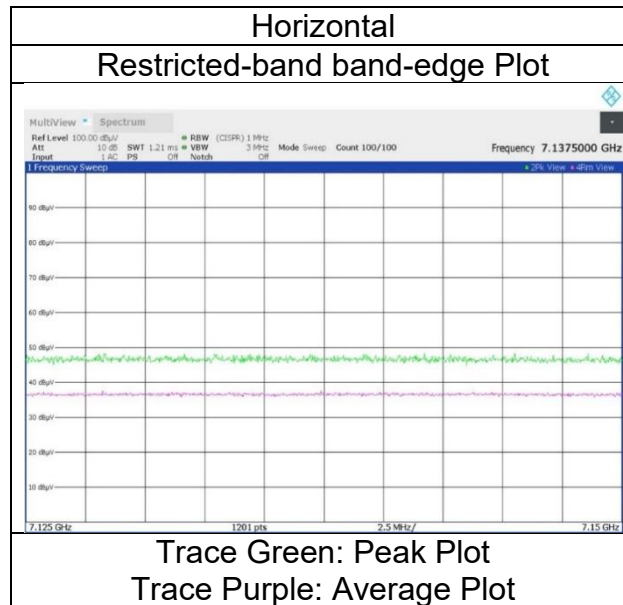
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 22, 2024
Temperature / Humidity	23 deg.C, 56 %RH
Engineer	Yohsuke Matsuzawa (1 GHz -10 GHz)
Mode	Tx 11ax-80 (OFDM), 7025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 22, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 56 %RH 23 deg.C, 65 %RH
Engineer Kouki Yamada Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6025 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	12050.000	PK	47.30	38.65	-25.71	-	-9.54	50.70	73.9	23.2	150	0	Floor Noise
Hori.	12050.000	AV	34.83	38.65	-25.71	-	-9.54	38.23	53.9	15.6	150	0	Floor Noise
Vert.	12050.000	PK	46.68	38.65	-25.71	-	-9.54	50.08	73.9	23.8	150	0	Floor Noise
Vert.	12050.000	AV	34.62	38.65	-25.71	-	-9.54	38.02	53.9	15.8	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	46.53	32.46	-24.99	-	0.00	2.10	56.10	-39.13	-7.0	32.1	152	354	-
Hori.	5925.000	AV	35.63	32.46	-24.99	-	0.00	2.10	45.20	-50.03	-27.0	23.0	152	354	-
Vert.	5925.000	PK	46.66	32.46	-24.99	-	0.00	2.10	56.23	-39.00	-7.0	32.0	161	350	-
Vert.	5925.000	AV	35.96	32.46	-24.99	-	0.00	2.10	45.53	-49.70	-27.0	22.7	161	350	-

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

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

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

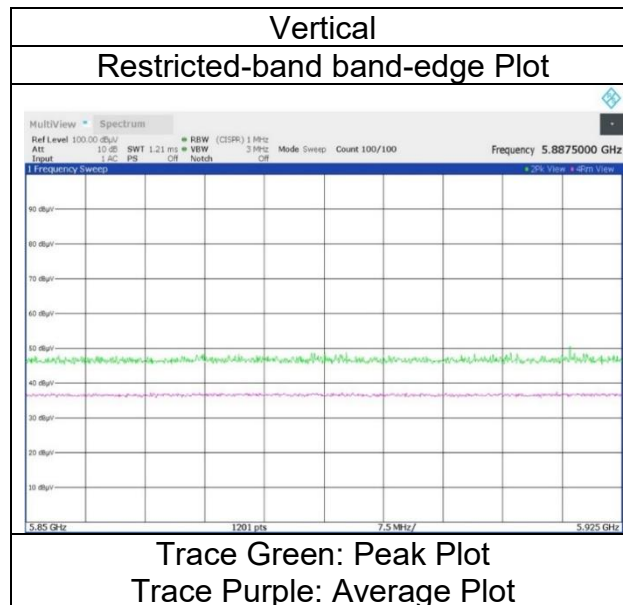
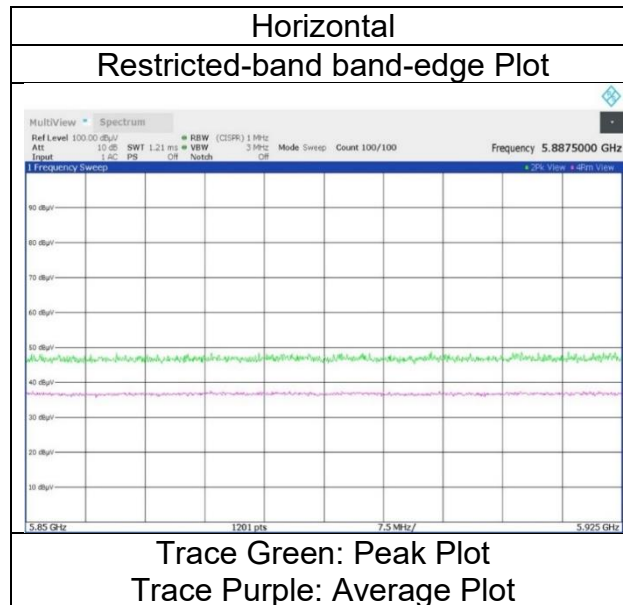
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 22, 2024
Temperature / Humidity	23 deg.C, 56 %RH
Engineer	Kouki Yamada
	(1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDM), 6025 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	June 5, 2024	May 28, 2024
Temperature / Humidity	22 deg.C, 60 %RH	23 deg.C, 65 %RH
Engineer	Yosuke Murakami	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-160 (OFDM), 6185 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

(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.	12370.000	PK	45.74	38.38	-25.25	-	-9.54	49.33	73.9	24.5	150	0	Floor Noise
Hori.	12370.000	AV	33.98	38.38	-25.25	-	-9.54	37.57	53.9	16.3	150	0	Floor Noise
Vert.	12370.000	PK	47.12	38.38	-25.25	-	-9.54	50.71	73.9	23.1	150	0	Floor Noise
Vert.	12370.000	AV	33.99	38.38	-25.25	-	-9.54	37.58	53.9	16.3	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6345 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	12690.000	PK	46.02	38.45	-25.00	-	-9.54	49.93	73.9	23.9	150	0	Floor Noise
Hori.	12690.000	AV	34.52	38.45	-25.00	-	-9.54	38.43	53.9	15.4	150	0	Floor Noise
Vert.	12690.000	PK	46.76	38.45	-25.00	-	-9.54	50.67	73.9	23.2	150	0	Floor Noise
Vert.	12690.000	AV	34.39	38.45	-25.00	-	-9.54	38.30	53.9	15.6	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6505 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13010.000	PK	46.35	38.82	-24.87	-	0.00	-9.54	50.76	-44.47	-7.0	37.4	150	0	Floor Noise
Hori.	13010.000	AV	34.93	38.82	-24.87	-	0.00	-9.54	39.34	-55.89	-27.0	28.8	150	0	Floor Noise
Vert.	13010.000	PK	47.06	38.82	-24.87	-	0.00	-9.54	51.47	-43.76	-7.0	36.7	150	0	Floor Noise
Vert.	13010.000	AV	35.51	38.82	-24.87	-	0.00	-9.54	39.92	-55.31	-27.0	28.3	150	0	Floor Noise

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date June 5, 2024 May 28, 2024
Temperature / Humidity 22 deg.C, 60 %RH 23 deg.C, 65 %RH
Engineer Yosuke Murakami Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6665 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

(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.	13330.000	PK	45.28	39.03	-24.71	-	-9.54	50.06	73.9	23.8	150	0	Floor Noise
Hori.	13330.000	AV	33.98	39.03	-24.71	-	-9.54	38.76	53.9	15.1	150	0	Floor Noise
Vert.	13330.000	PK	46.40	39.03	-24.71	-	-9.54	51.18	73.9	22.7	150	0	Floor Noise
Vert.	13330.000	AV	33.42	39.03	-24.71	-	-9.54	38.20	53.9	15.7	150	0	Floor Noise

Result = 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 : $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC1	WAC1
Date	June 5, 2024	May 28, 2024
Temperature / Humidity	22 deg.C, 60 %RH	23 deg.C, 65 %RH
Engineer	Yosuke Murakami	Yohsuke Matsuzawa
	(1 GHz -10 GHz)	(10 GHz -18 GHz)
Mode	Tx 11ax-160 (OFDM), 6825 MHz (CDD)	
Antenna type	5G CH0: monopole , 5G CH 1: monopole	

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13650.000	PK	45.91	39.10	-24.67	-	0.00	-9.54	50.80	-44.43	-7.0	37.4	150	0	Floor Noise
Hori.	13650.000	AV	35.20	39.10	-24.67	-	0.00	-9.54	40.09	-55.14	-27.0	28.1	150	0	Floor Noise
Vert.	13650.000	PK	46.62	39.10	-24.67	-	0.00	-9.54	51.51	-43.72	-7.0	36.7	150	0	Floor Noise
Vert.	13650.000	AV	34.22	39.10	-24.67	-	0.00	-9.54	39.11	-56.12	-27.0	29.1	150	0	Floor Noise

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 23, 2024 May 28, 2024
Temperature / Humidity 23 deg.C, 56 %RH 23 deg.C, 65 %RH
Engineer Yohsuke Matsuzawa Yohsuke Matsuzawa
(1 GHz -10 GHz) (10 GHz -18 GHz)
Mode Tx 11ax-160 (OFDM), 6985 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	46.37	36.14	-24.19	-	0.00	2.10	60.42	-34.81	-7.0	27.8	149	350	-
Hori.	13970.000	PK	46.36	39.06	-24.76	-	0.00	-9.54	51.12	-44.11	-7.0	37.1	150	0	Floor Noise
Hori.	7125.000	AV	36.06	36.14	-24.19	-	0.00	2.10	50.11	-45.12	-27.0	18.1	149	350	-
Hori.	13970.000	AV	34.73	39.06	-24.76	-	0.00	-9.54	39.49	-55.74	-27.0	28.7	150	0	Floor Noise
Vert.	7125.000	PK	47.37	36.14	-24.19	-	0.00	2.10	61.42	-33.81	-7.0	26.8	110	193	-
Vert.	13970.000	PK	46.05	39.06	-24.76	-	0.00	-9.54	50.81	-44.42	-7.0	37.4	150	0	Floor Noise
Vert.	7125.000	AV	35.90	36.14	-24.19	-	0.00	2.10	49.95	-45.28	-27.0	18.2	110	193	-
Vert.	13970.000	AV	34.46	39.06	-24.76	-	0.00	-9.54	39.22	-56.01	-27.0	29.0	150	0	Floor Noise

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

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

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

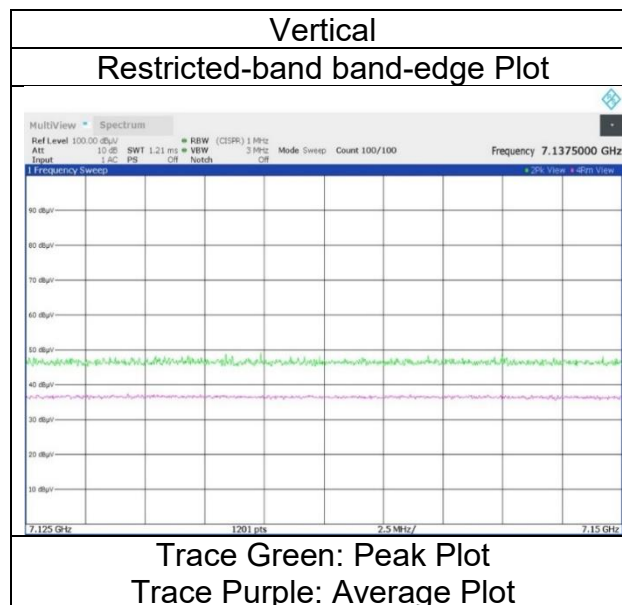
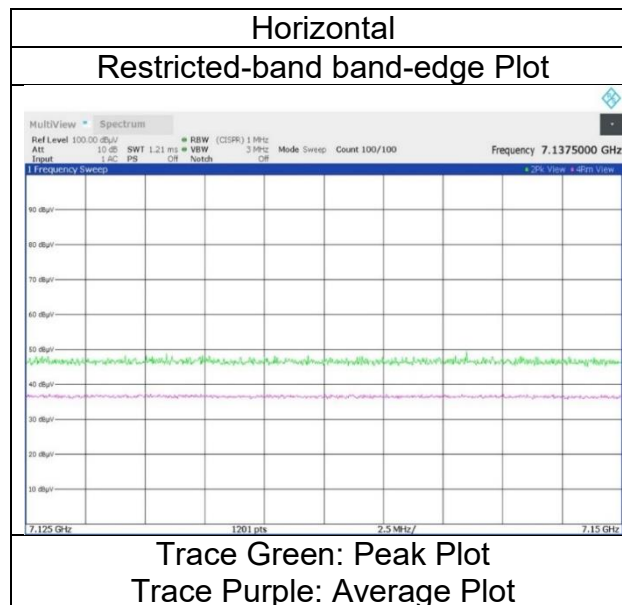
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 23, 2024
Temperature / Humidity	23 deg.C, 56 %RH
Engineer	Yohsuke Matsuzawa (1 GHz -10 GHz)
Mode	Tx 11ax-160 (OFDM), 6985 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 0

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.35	32.46	-24.99	-	0.00	2.10	57.92	-37.31	-7.0	30.3	196	353	-
Hori.	5925.000	AV	36.34	32.46	-24.99	-	0.00	2.10	45.91	-49.32	-27.0	22.3	196	353	-
Vert.	5925.000	PK	46.77	32.46	-24.99	-	0.00	2.10	56.34	-38.89	-7.0	31.8	127	357	-
Vert.	5925.000	AV	36.03	32.46	-24.99	-	0.00	2.10	45.60	-49.63	-27.0	22.6	127	357	-

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

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

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

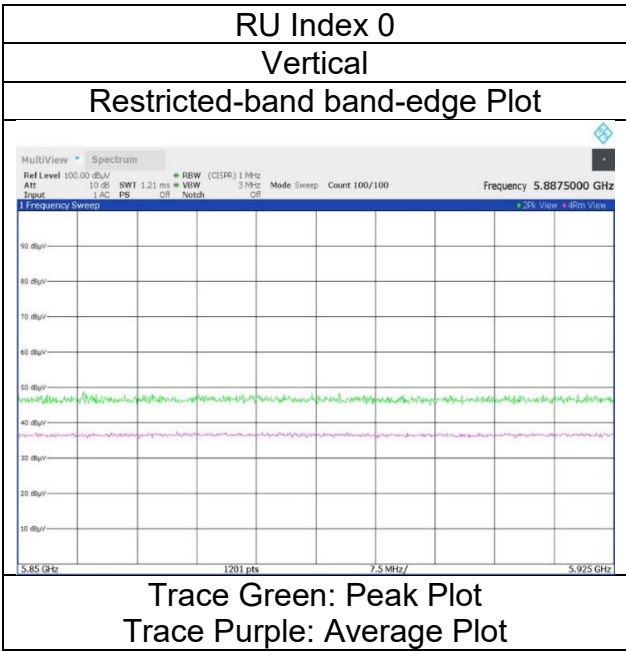
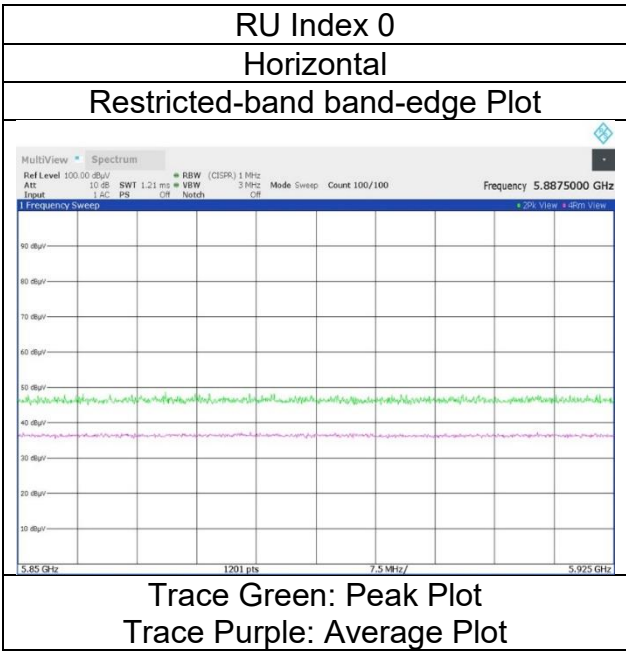
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	WAC1
Date	May 21, 2024
Temperature / Humidity	22 deg. C / 70 % RH
Engineer	Yosuke Murakami
	(1 GHz -10 GHz)
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5955 MHz (CDD)
Antenna type	5G CH0: monopole , 5G CH 1: monopole



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1
Date May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH
Engineer Yosuke Murakami
(1 GHz - 10 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 7095 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 8

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.61	36.14	-24.19	-	0.00	2.10	61.66	-33.57	-7.0	26.5	131	355	-
Hori.	7125.000	AV	36.30	36.14	-24.19	-	0.00	2.10	50.35	-44.88	-27.0	17.8	131	355	-
Vert.	7125.000	PK	46.21	36.14	-24.19	-	0.00	2.10	60.26	-34.97	-7.0	27.9	141	6	-
Vert.	7125.000	AV	35.65	36.14	-24.19	-	0.00	2.10	49.70	-45.53	-27.0	18.5	141	6	-

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

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

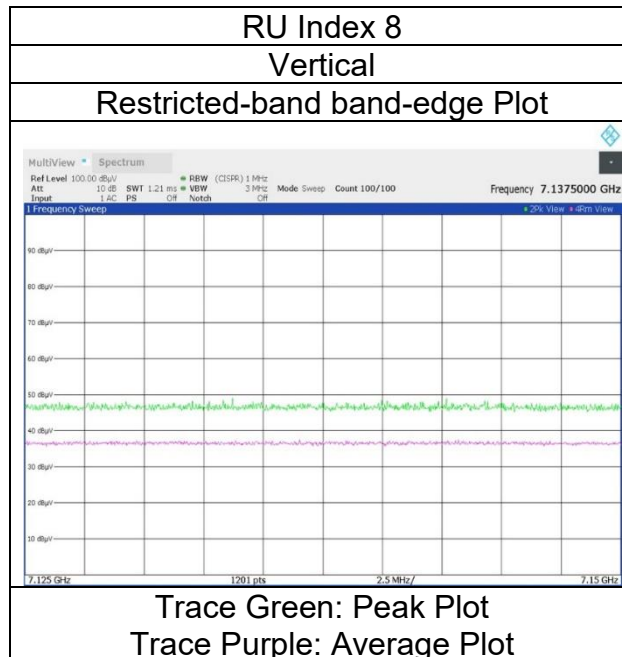
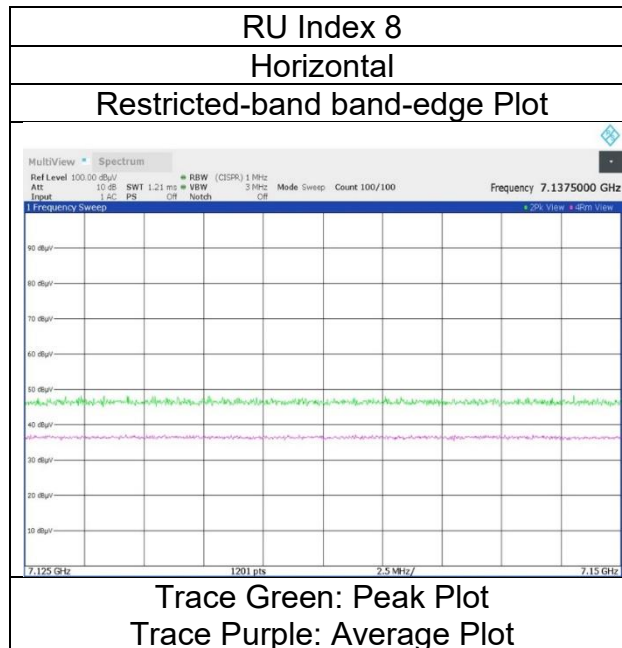
10 GHz - 40 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Shonan EMC Lab.
WAC1
May 21, 2024
22 deg. C / 70 % RH
Yosuke Murakami
(1 GHz -10 GHz)
Tx 11ax-20 (OFDMA) 26-tone RU, 7095 MHz (CDD)
5G CH0: monopole , 5G CH 1: monopole

Mode
Antenna type



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC1 WAC1
Date May 21, 2024 May 21, 2024
Temperature / Humidity 22 deg. C / 70 % RH 22 deg. C / 63 % RH
Engineer Yosuke Murakami Makoto Hosaka
(1 GHz - 10 GHz) (10 GHz - 18 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5955 MHz (CDD)
Antenna type 5G CH0: monopole , 5G CH 1: monopole

RU Index 37

(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.	11910.000	PK	47.36	38.54	-25.71	-	-9.54	50.65	73.9	23.2	150	0	Floor Noise
Hori.	17865.000	PK	47.49	40.39	-21.51	-	-9.54	56.83	73.9	17.0	150	0	Floor Noise
Hori.	11910.000	AV	35.54	38.54	-25.71	-	-9.54	38.83	53.9	15.0	150	0	Floor Noise
Hori.	17865.000	AV	35.79	40.39	-21.51	-	-9.54	45.13	53.9	8.7	150	0	Floor Noise
Vert.	11910.000	PK	47.48	38.54	-25.71	-	-9.54	50.77	73.9	23.1	150	0	Floor Noise
Vert.	17865.000	PK	47.69	40.39	-21.51	-	-9.54	57.03	73.9	16.8	150	0	Floor Noise
Vert.	11910.000	AV	35.62	38.54	-25.71	-	-9.54	38.91	53.9	14.9	150	0	Floor Noise
Vert.	17865.000	AV	35.80	40.39	-21.51	-	-9.54	45.14	53.9	8.7	150	0	Floor Noise

Result = 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 (3.820 m / 3.0 m) = 2.10 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]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.61	32.46	-24.99	-	0.00	2.10	58.18	-37.05	-7.0	30.0	182	354	-
Hori.	5925.000	AV	35.77	32.46	-24.99	-	0.00	2.10	45.34	-49.89	-27.0	22.8	182	354	-
Vert.	5925.000	PK	46.21	32.46	-24.99	-	0.00	2.10	55.78	-39.45	-7.0	32.4	127	357	-
Vert.	5925.000	AV	35.56	32.46	-24.99	-	0.00	2.10	45.13	-50.10	-27.0	23.1	127	357	-

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

Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + 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 (3.820 m / 3.0 m) = 2.10 dB

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