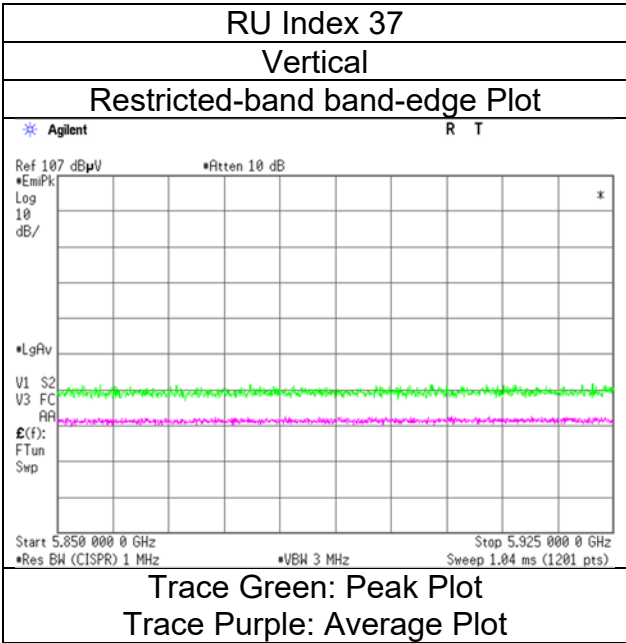
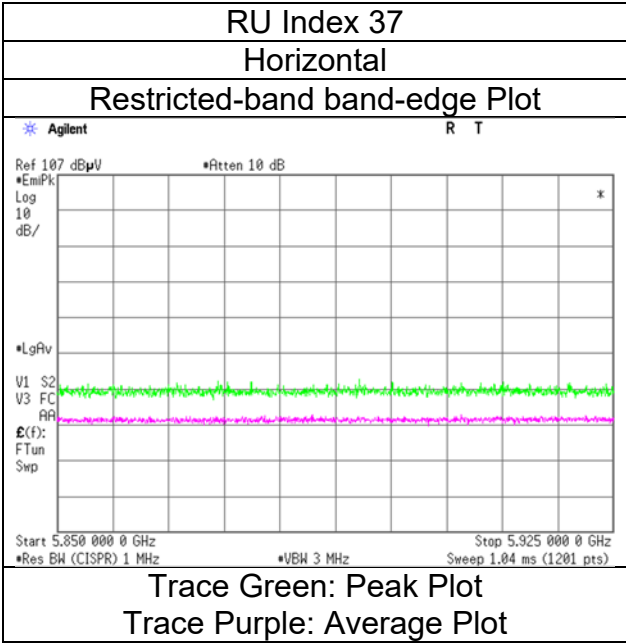


Radiated Spurious Emission

Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz

RU Index 53

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	49.67	33.06	17.70	43.38	0.00	2.49	59.54	-35.69	-7.0	28.6	150	285	-
Hori.	5925.000	AV	38.21	33.06	17.70	43.38	0.00	2.49	48.08	-47.15	-27.0	20.1	150	285	-
Vert.	5925.000	PK	49.60	33.06	17.70	43.38	0.00	2.49	59.47	-35.76	-7.0	28.7	194	359	-
Vert.	5925.000	AV	37.04	33.06	17.70	43.38	0.00	2.49	46.91	-48.32	-27.0	21.3	194	359	-

Result (PK) [dBuV/m] = 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)

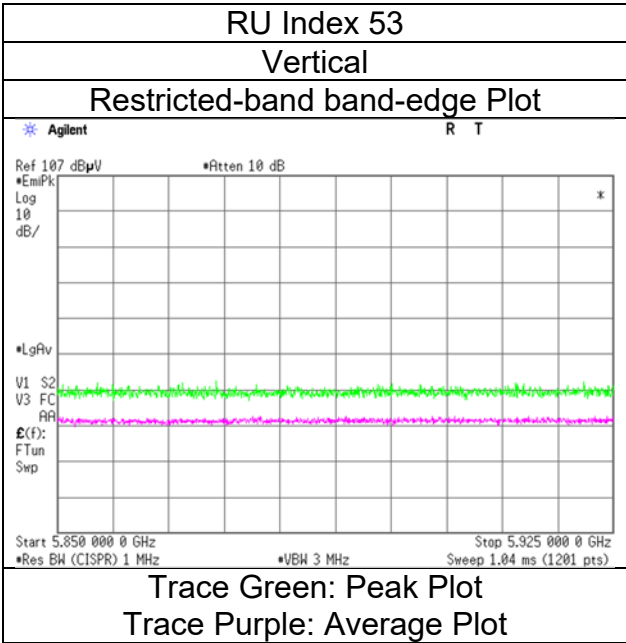
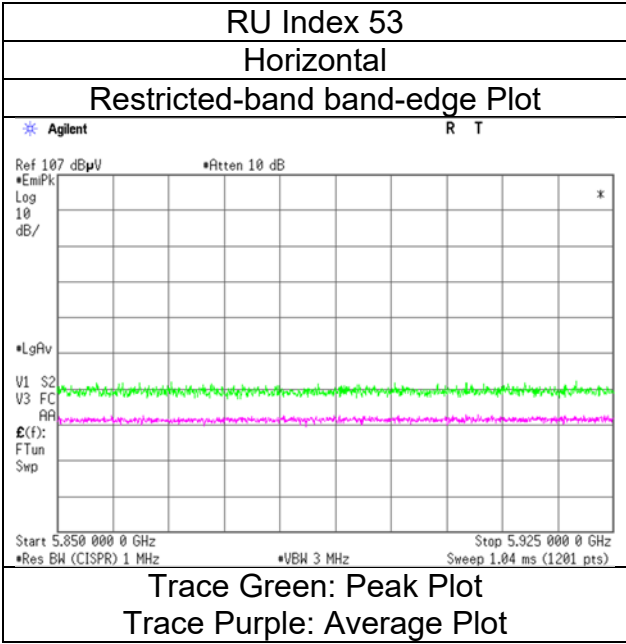
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz

RU Index 61

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	50.44	33.06	17.70	43.38	0.00	2.49	60.31	-34.92	-7.0	27.9	113	283	-
Hori.	5925.000	AV	39.57	33.06	17.70	43.38	0.00	2.49	49.44	-45.79	-27.0	18.7	113	283	-
Vert.	5925.000	PK	49.93	33.06	17.70	43.38	0.00	2.49	59.80	-35.43	-7.0	28.4	198	356	-
Vert.	5925.000	AV	38.36	33.06	17.70	43.38	0.00	2.49	48.23	-47.00	-27.0	20.0	198	356	-

Result (PK) [dBuV/m] = 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)

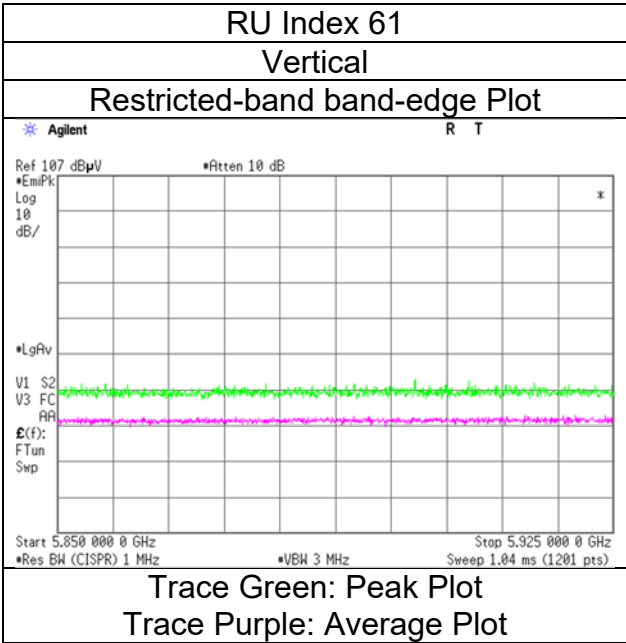
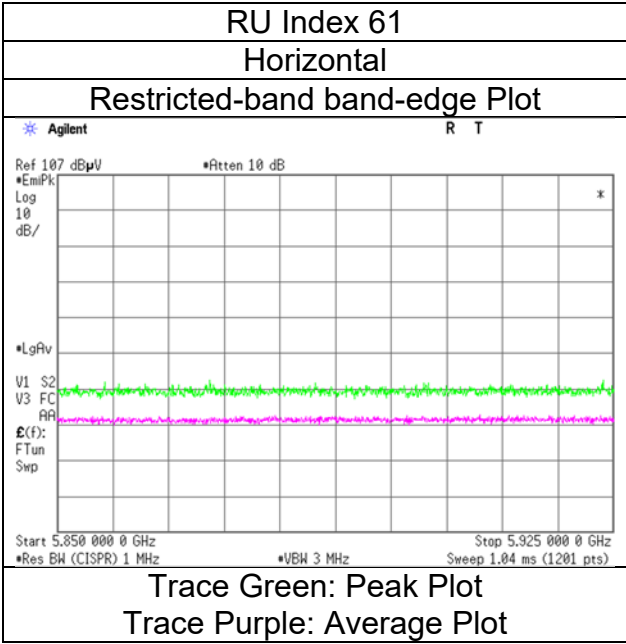
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz

RU Index 65

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	49.96	33.06	17.70	43.38	0.00	2.49	59.83	-35.40	-7.0	28.4	201	284	-
Hori.	5925.000	AV	38.77	33.06	17.70	43.38	0.00	2.49	48.64	-46.59	-27.0	19.5	201	284	-
Vert.	5925.000	PK	50.47	33.06	17.70	43.38	0.00	2.49	60.34	-34.89	-7.0	27.8	196	357	-
Vert.	5925.000	AV	38.58	33.06	17.70	43.38	0.00	2.49	48.45	-46.78	-27.0	19.7	196	357	-

Result (PK) [dBuV/m] = 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)

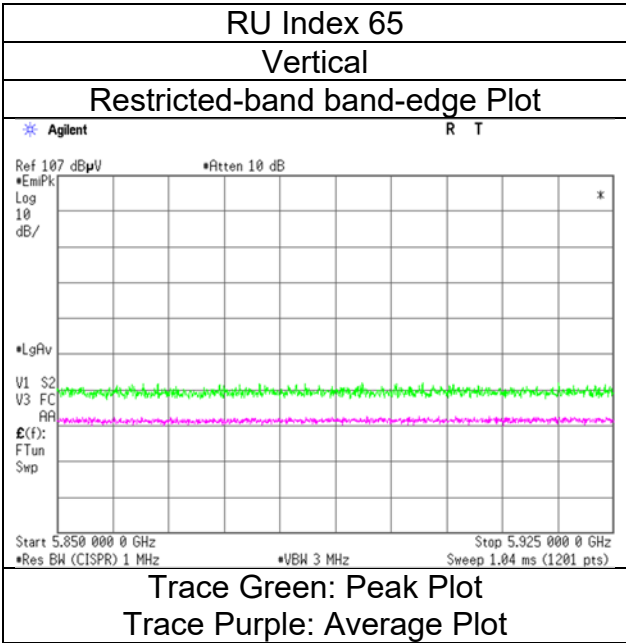
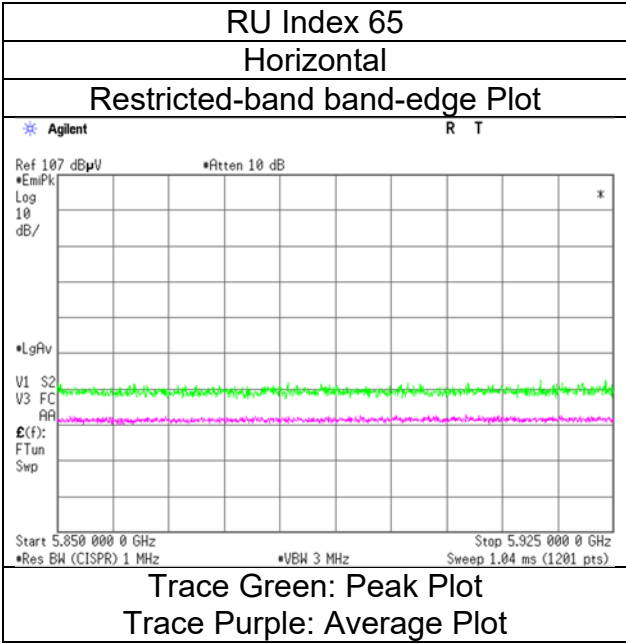
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 17, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz

RU Index 67

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.58	33.06	17.69	43.38	0.00	2.49	58.44	-36.79	-7.0	29.7	157	72	-
Hori.	5925.000	AV	38.72	33.06	17.69	43.38	0.20	2.49	48.78	-46.45	-27.0	19.4	157	72	-
Vert.	5925.000	PK	48.57	33.06	17.69	43.38	0.00	2.49	58.43	-36.80	-7.0	29.8	155	142	-
Vert.	5925.000	AV	39.32	33.06	17.69	43.38	0.20	2.49	49.38	-45.85	-27.0	18.8	155	142	-

Result (PK) [dBuV/m] = 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).

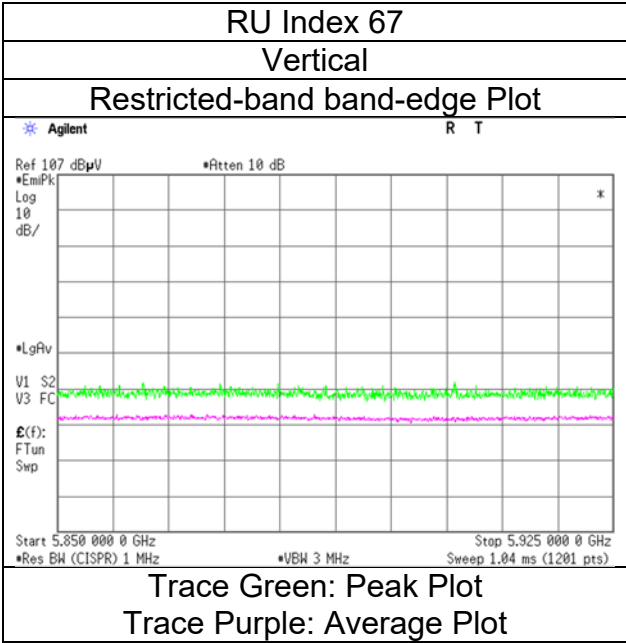
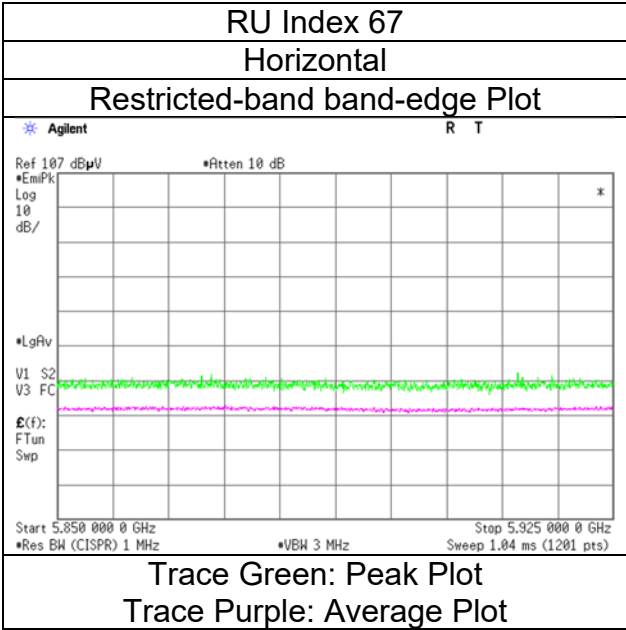
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
January 17, 2024
20 deg. C / 30 % RH
Yohsuke Matsuzawa
Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 36

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	49.70	37.00	18.47	43.29	0.00	2.49	64.37	-30.86	-7.0	23.8	281	49	-
Hori.	7125.000	AV	38.48	37.00	18.47	43.29	0.00	2.49	53.15	-42.08	-27.0	15.0	281	49	-
Vert.	7125.000	PK	50.01	37.00	18.47	43.29	0.00	2.49	64.68	-30.55	-7.0	23.5	149	29	-
Vert.	7125.000	AV	39.37	37.00	18.47	43.29	0.00	2.49	54.04	-41.19	-27.0	14.1	149	29	-

Result (PK) [dBuV/m] = 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).

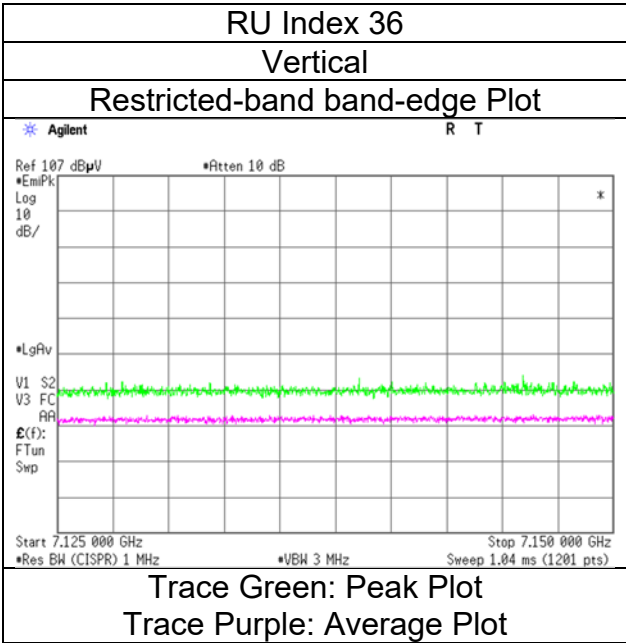
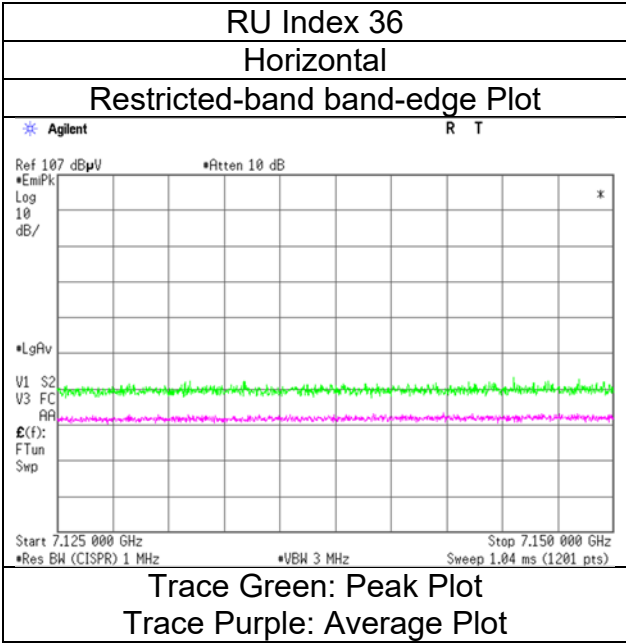
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 16, 2024
24 deg. C / 35 % RH
Takayuki Kobayashi
Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 52

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	49.27	37.00	18.47	43.29	0.00	2.49	63.94	-31.29	-7.0	24.2	313	60	-
Hori.	7125.000	AV	38.24	37.00	18.47	43.29	0.00	2.49	52.91	-42.32	-27.0	15.3	313	60	-
Vert.	7125.000	PK	49.58	37.00	18.47	43.29	0.00	2.49	64.25	-30.98	-7.0	23.9	159	33	-
Vert.	7125.000	AV	38.38	37.00	18.47	43.29	0.00	2.49	53.05	-42.18	-27.0	15.1	159	33	-

Result (PK) [dBuV/m] = 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).

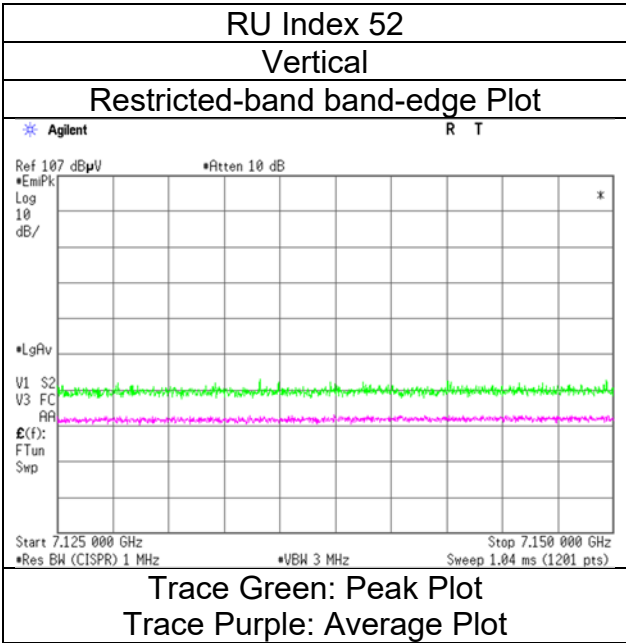
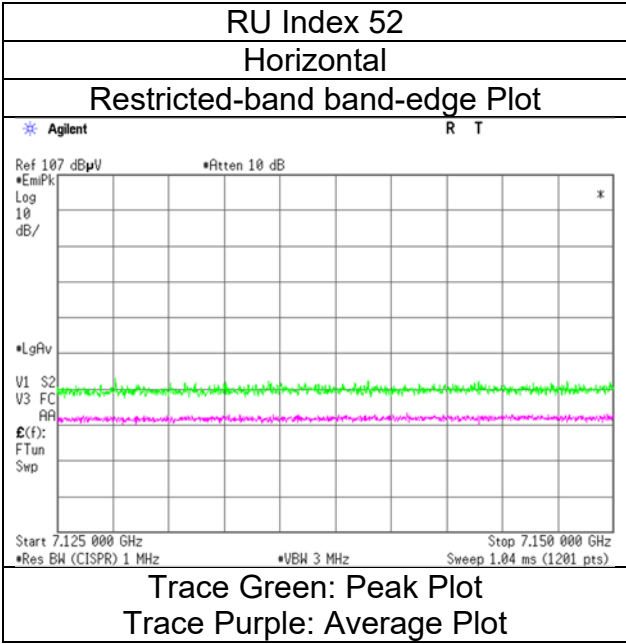
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
February 16, 2024
24 deg. C / 35 % RH
Takayuki Kobayashi
Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 60

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.95	37.00	18.47	43.29	0.00	2.49	63.62	-31.61	-7.0	24.6	305	49	-
Hori.	7125.000	AV	38.25	37.00	18.47	43.29	0.00	2.49	52.92	-42.31	-27.0	15.3	305	49	-
Vert.	7125.000	PK	49.99	37.00	18.47	43.29	0.00	2.49	64.66	-30.57	-7.0	23.5	150	29	-
Vert.	7125.000	AV	37.66	37.00	18.47	43.29	0.00	2.49	52.33	-42.90	-27.0	15.9	150	29	-

Result (PK) [dBuV/m] = 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)

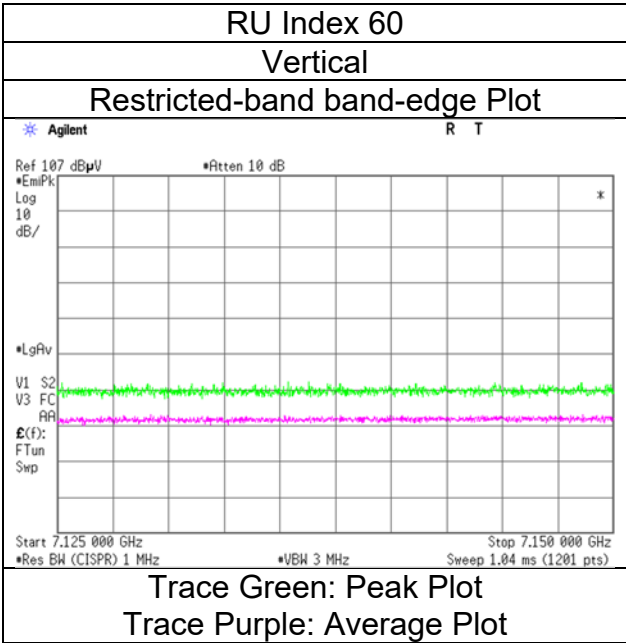
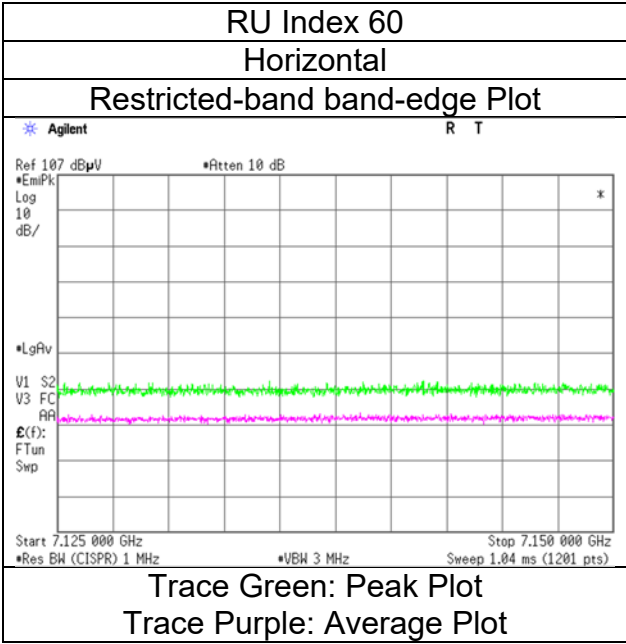
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 64

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.85	37.00	18.47	43.29	0.00	2.49	63.52	-31.71	-7.0	24.7	294	60	-
Hori.	7125.000	AV	39.17	37.00	18.47	43.29	0.00	2.49	53.84	-41.39	-27.0	14.3	294	60	-
Vert.	7125.000	PK	50.37	37.00	18.47	43.29	0.00	2.49	65.04	-30.19	-7.0	23.1	154	29	-
Vert.	7125.000	AV	39.36	37.00	18.47	43.29	0.00	2.49	54.03	-41.20	-27.0	14.2	154	29	-

Result (PK) [dBuV/m] = 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)

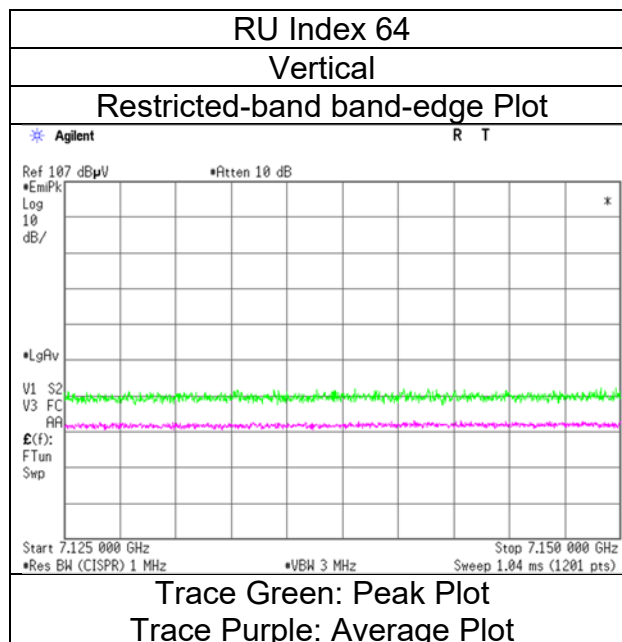
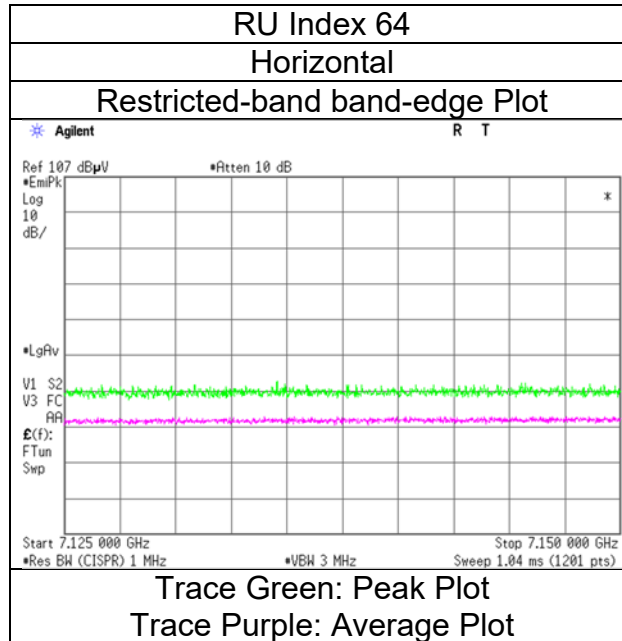
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date February 16, 2024
Temperature / Humidity 24 deg. C / 35 % RH
Engineer Takayuki Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 66

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	49.72	37.00	18.47	43.29	0.00	2.49	64.39	-30.84	-7.0	23.8	319	45	-
Hori.	7125.000	AV	38.74	37.00	18.47	43.29	0.00	2.49	53.41	-41.82	-27.0	14.8	319	45	-
Vert.	7125.000	PK	49.37	37.00	18.47	43.29	0.00	2.49	64.04	-31.19	-7.0	24.1	147	33	-
Vert.	7125.000	AV	39.68	37.00	18.47	43.29	0.00	2.49	54.35	-40.88	-27.0	13.8	147	33	-

Result (PK) [dBuV/m] = 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)

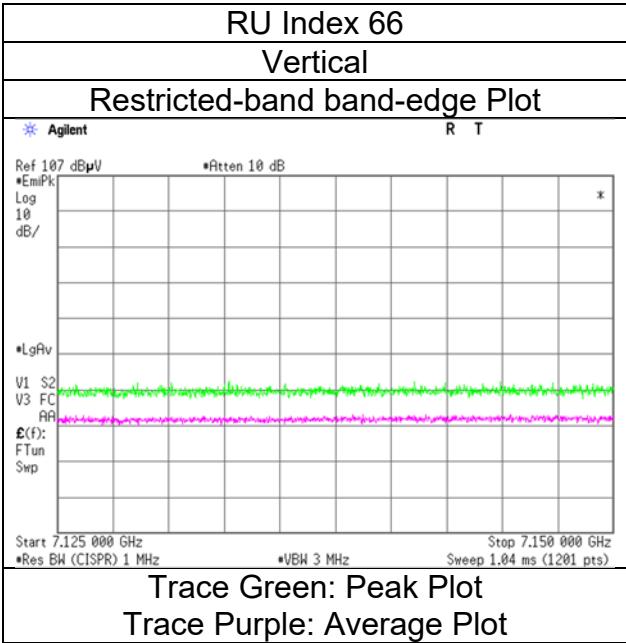
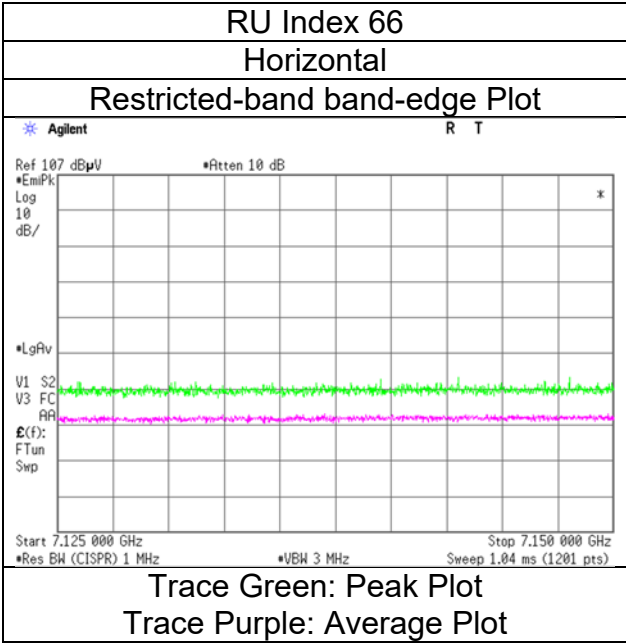
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	SAC 3
Date	February 16, 2024
Temperature / Humidity	24 deg. C / 35 % RH
Engineer	Takayuki Kobayashi
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date January 17, 2024
Temperature / Humidity 20 deg. C / 30 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz

RU Index 67

(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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	47.75	37.00	18.45	43.29	0.00	2.49	62.40	-32.83	-7.0	25.8	194	52	-
Hori.	7125.000	AV	38.13	37.00	18.45	43.29	0.20	2.49	52.98	-42.25	-27.0	15.2	194	52	-
Vert.	7125.000	PK	47.21	37.00	18.45	43.29	0.00	2.49	61.86	-33.37	-7.0	26.3	172	314	-
Vert.	7125.000	AV	38.00	37.00	18.45	43.29	0.20	2.49	52.85	-42.38	-27.0	15.3	172	314	-

Result (PK) [dBuV/m] = 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)

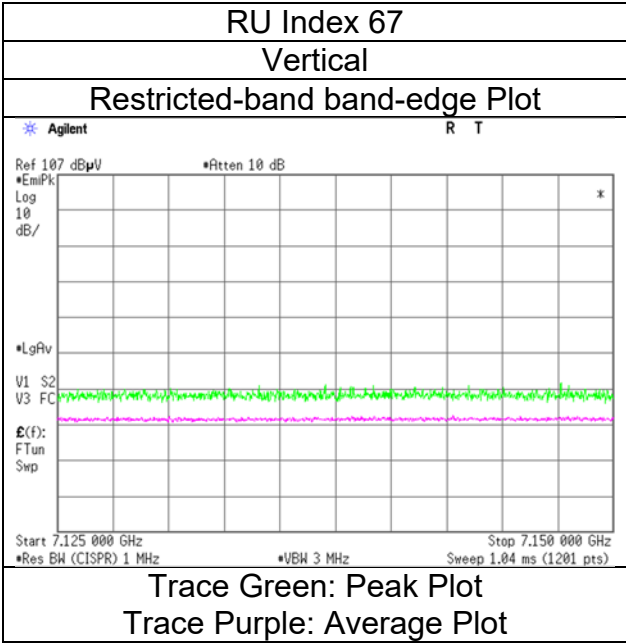
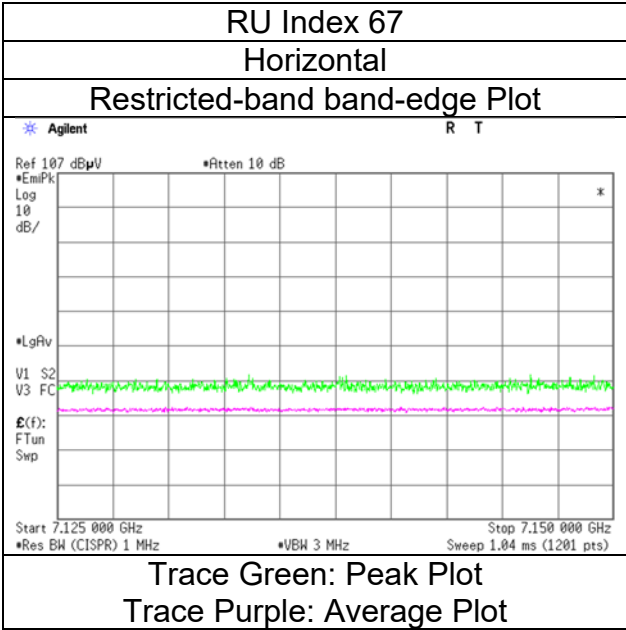
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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

Radiated Spurious Emission

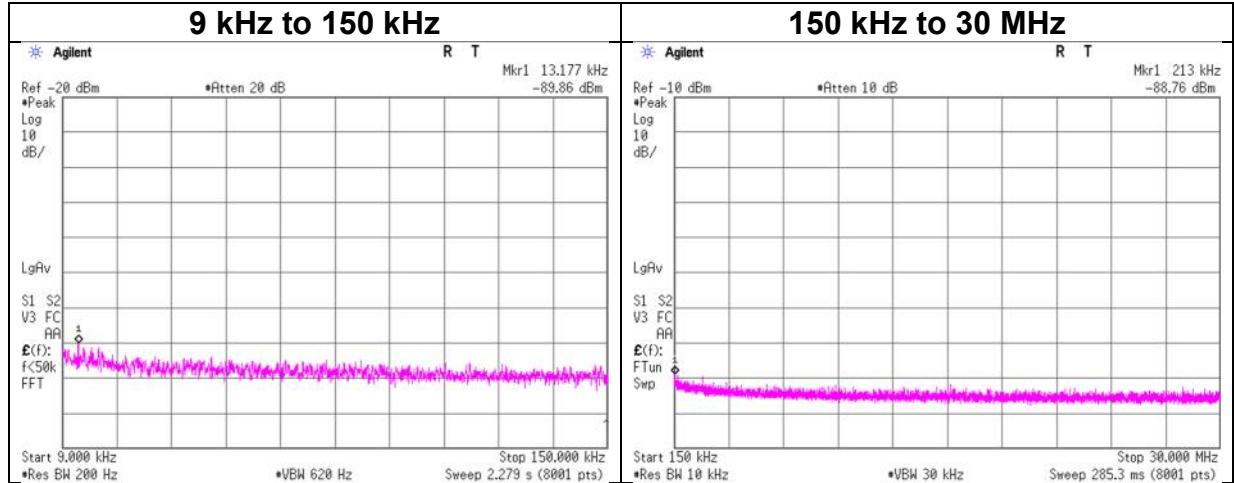
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	January 17, 2024
Temperature / Humidity	20 deg. C / 30 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz With 2M-PHY BT LE 2440 MHz



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

Conducted Spurious Emission

Test place Shonan EMC Lab. No.5 Shielded Room
Date May 15, 2024
Temperature / 24 deg. C / 46 % RH
Humidity
Engineer Hiromasa Sato
Mode Tx 11ax-40 (OFDM), 6445 MHz worst antenna port (ANT1)



FREQ [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain *1)	N (Number of output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field Strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
13.18	-89.86	0.10	9.97	2.00	2.0	-74.8	300	6.00	-13.5	45.2	58.7	-
213.00	-88.76	0.11	9.97	2.00	2.0	-73.7	300	6.00	-12.4	21.0	33.4	-

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

$EIRP [dBm] = Reading [dBm] + Cable\ Loss [dB] + Attenuator\ Loss [dB] + Antenna\ Gain [dBi] + 10 \times \log (N)$

N: Number of output port

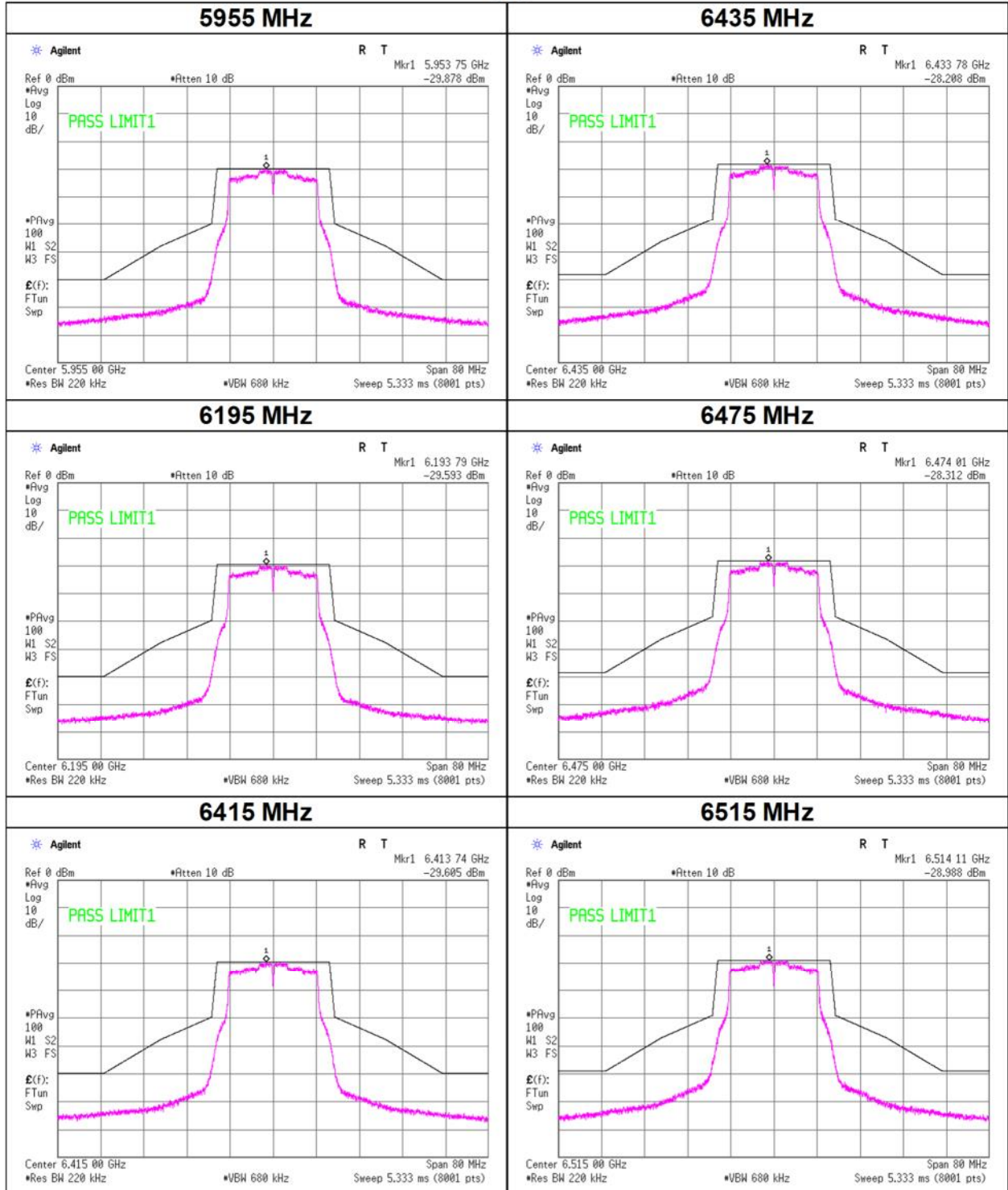
*1) 2.0 dBi was applied to the result based on KDB 789033 since antenna gain was less than 2.0 dBi.

In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11a

11a

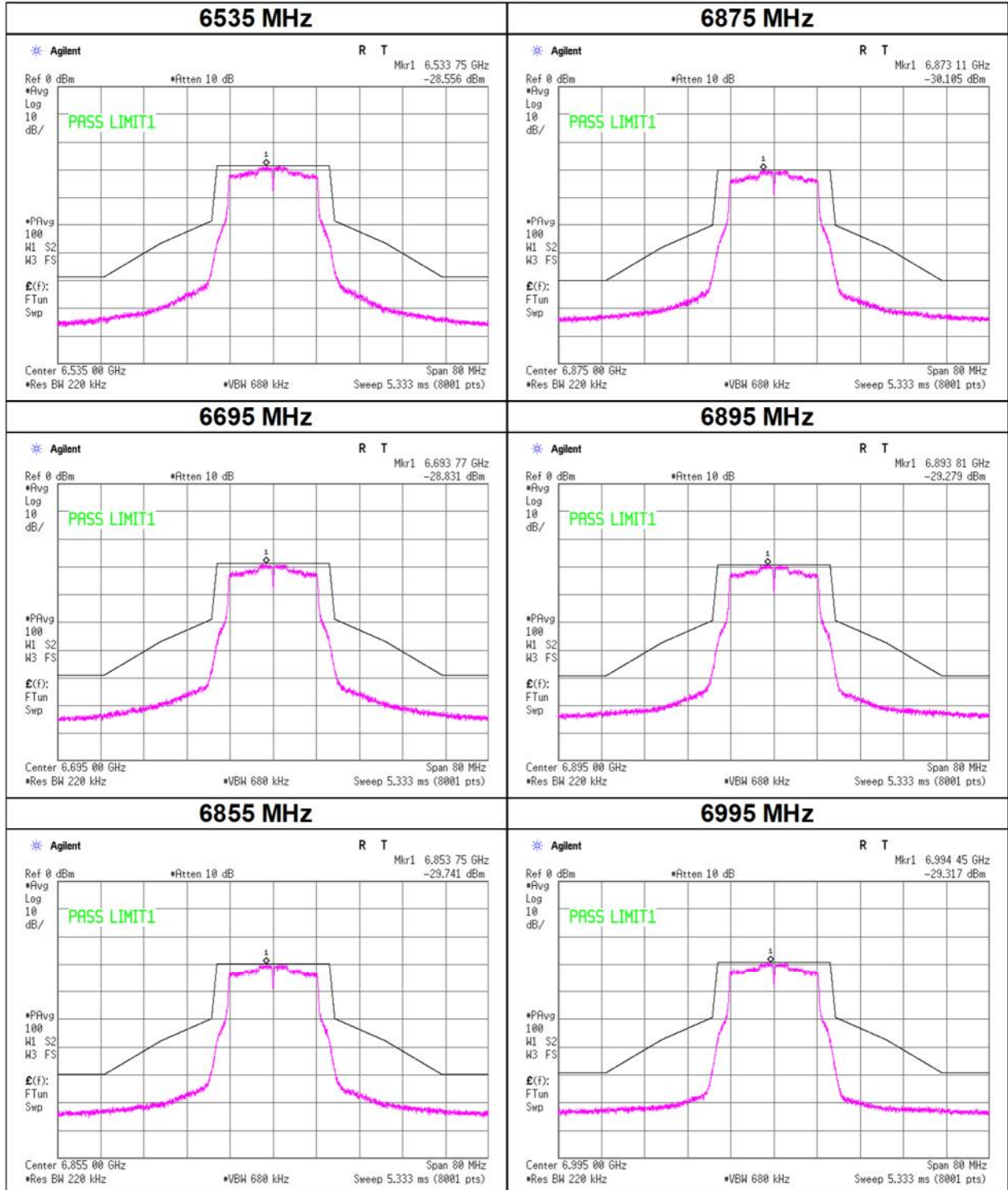


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

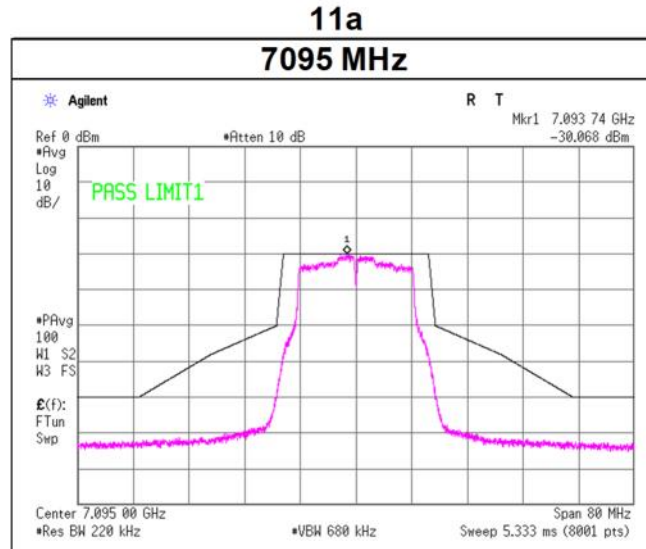
Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11a

11a



In-Band Emissions

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	April 27, 2024
Temperature / Humidity	26 deg. C / 37 % RH
Engineer	Yosuke Murakami
Mode	Tx 11a

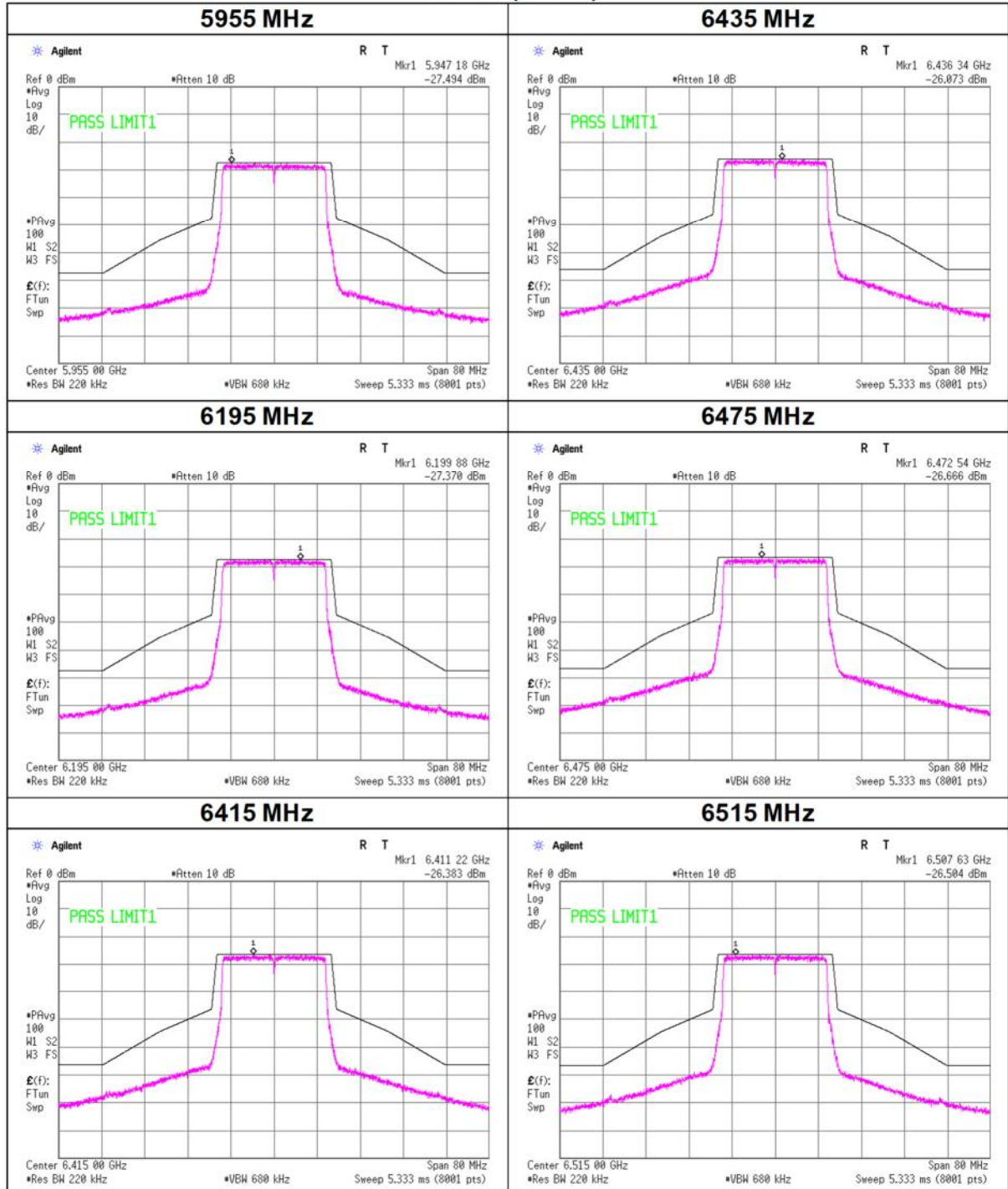


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDM)

11ax-20(OFDM)

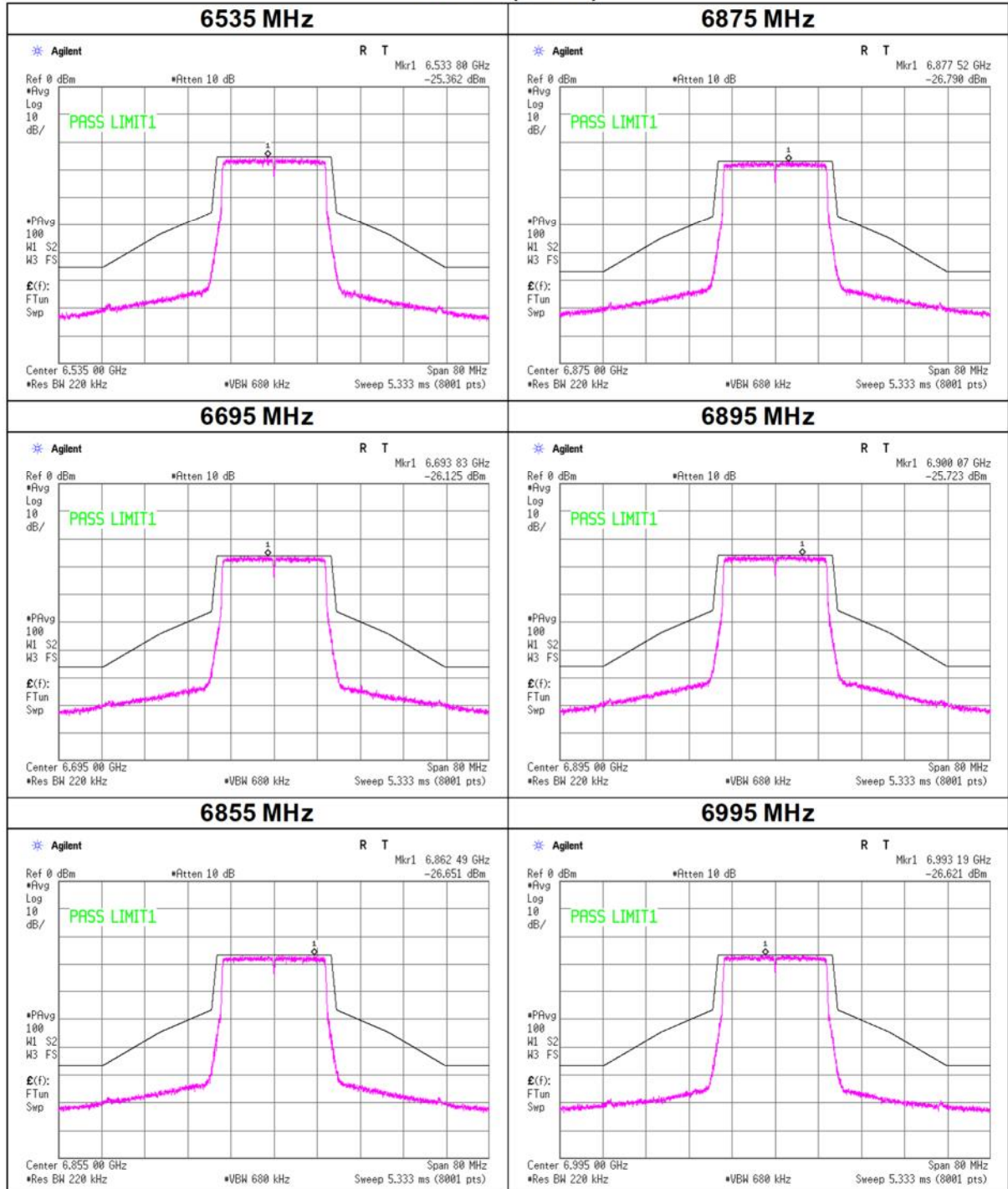


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDM)

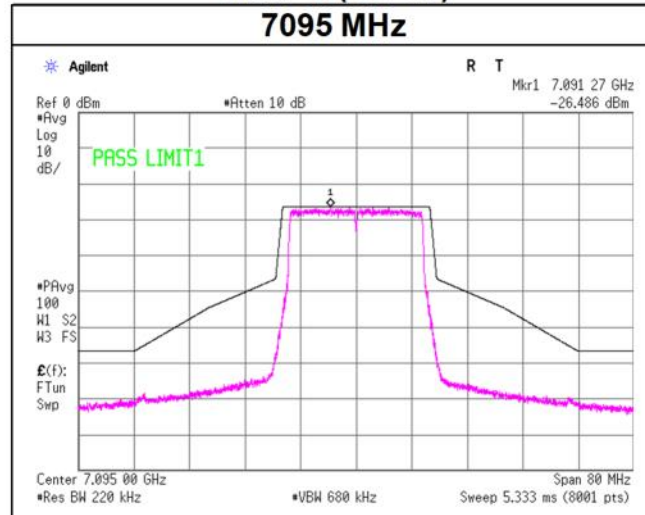
11ax-20(OFDM)



In-Band Emissions

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	April 27, 2024
Temperature / Humidity	26 deg. C / 37 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ax-20 (OFDM)

11ax-20(OFDM) 7095 MHz

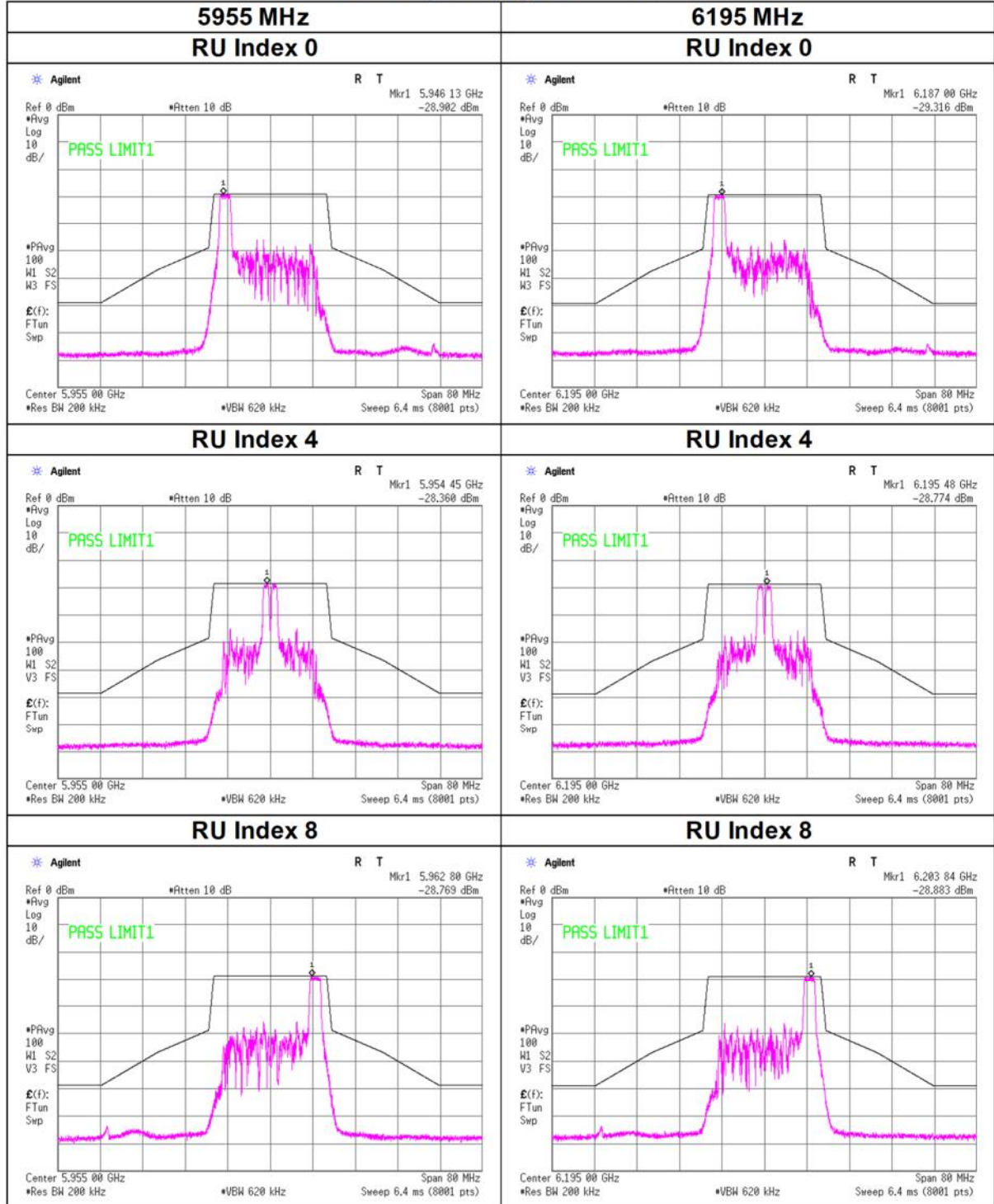


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

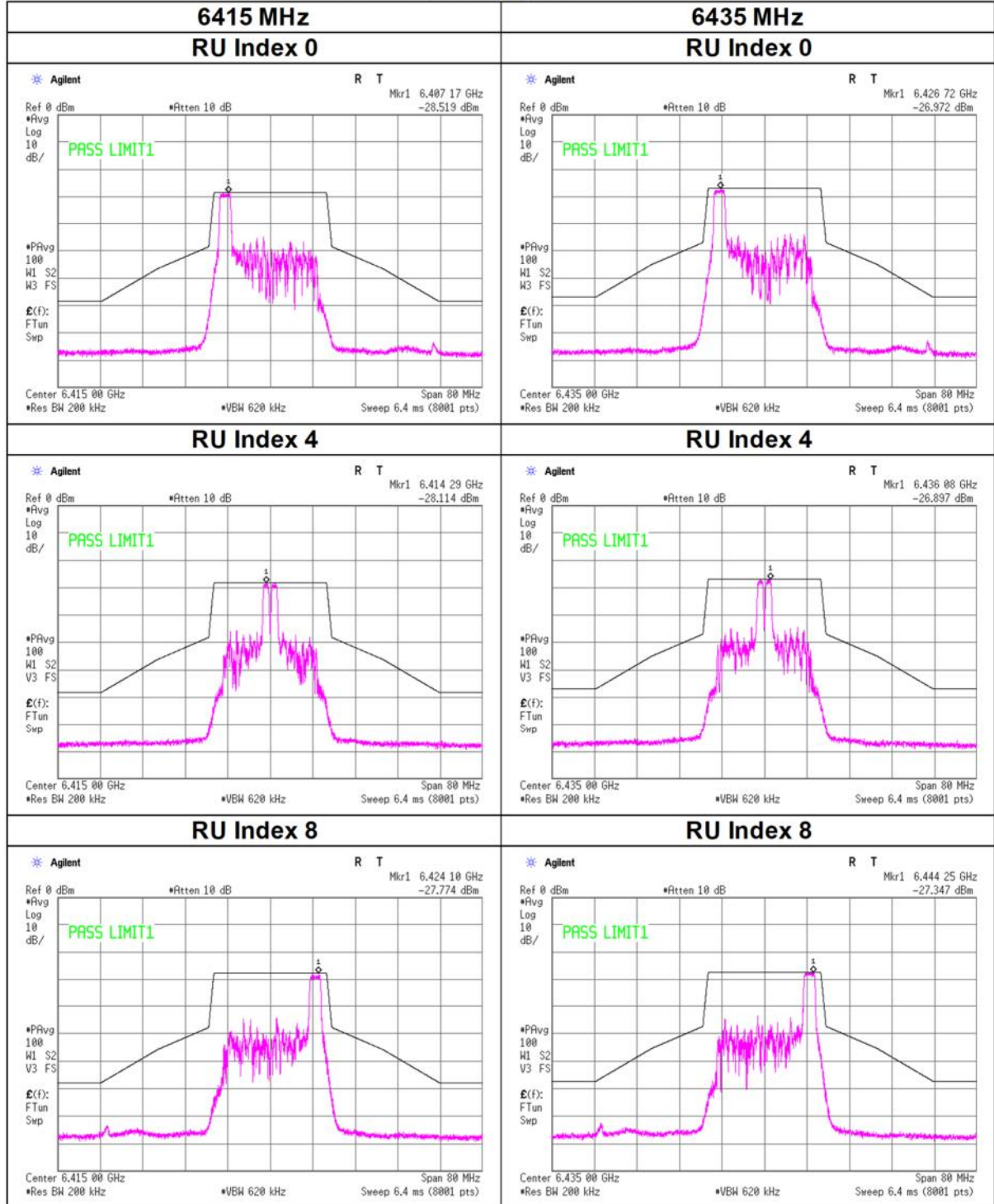


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

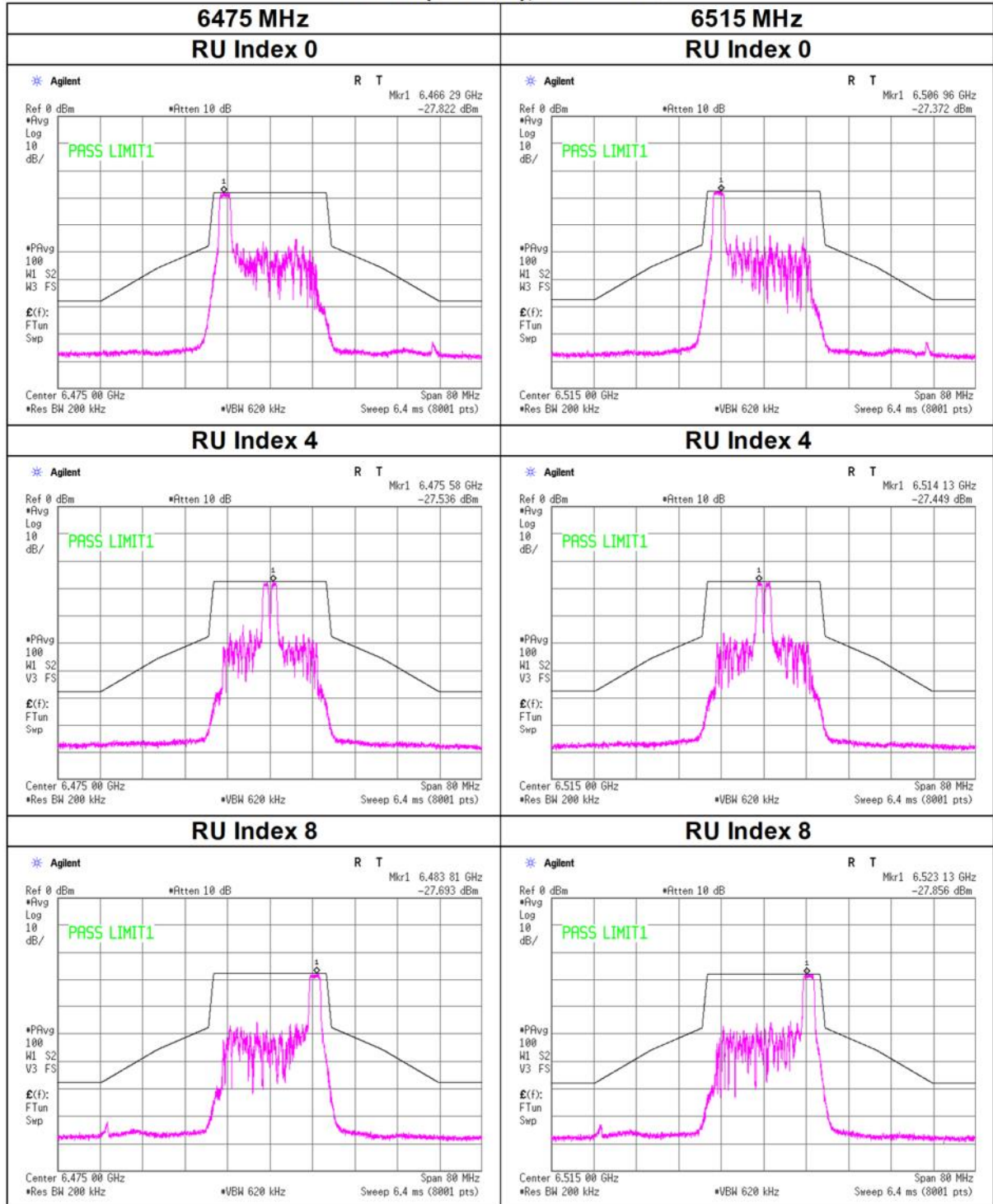


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

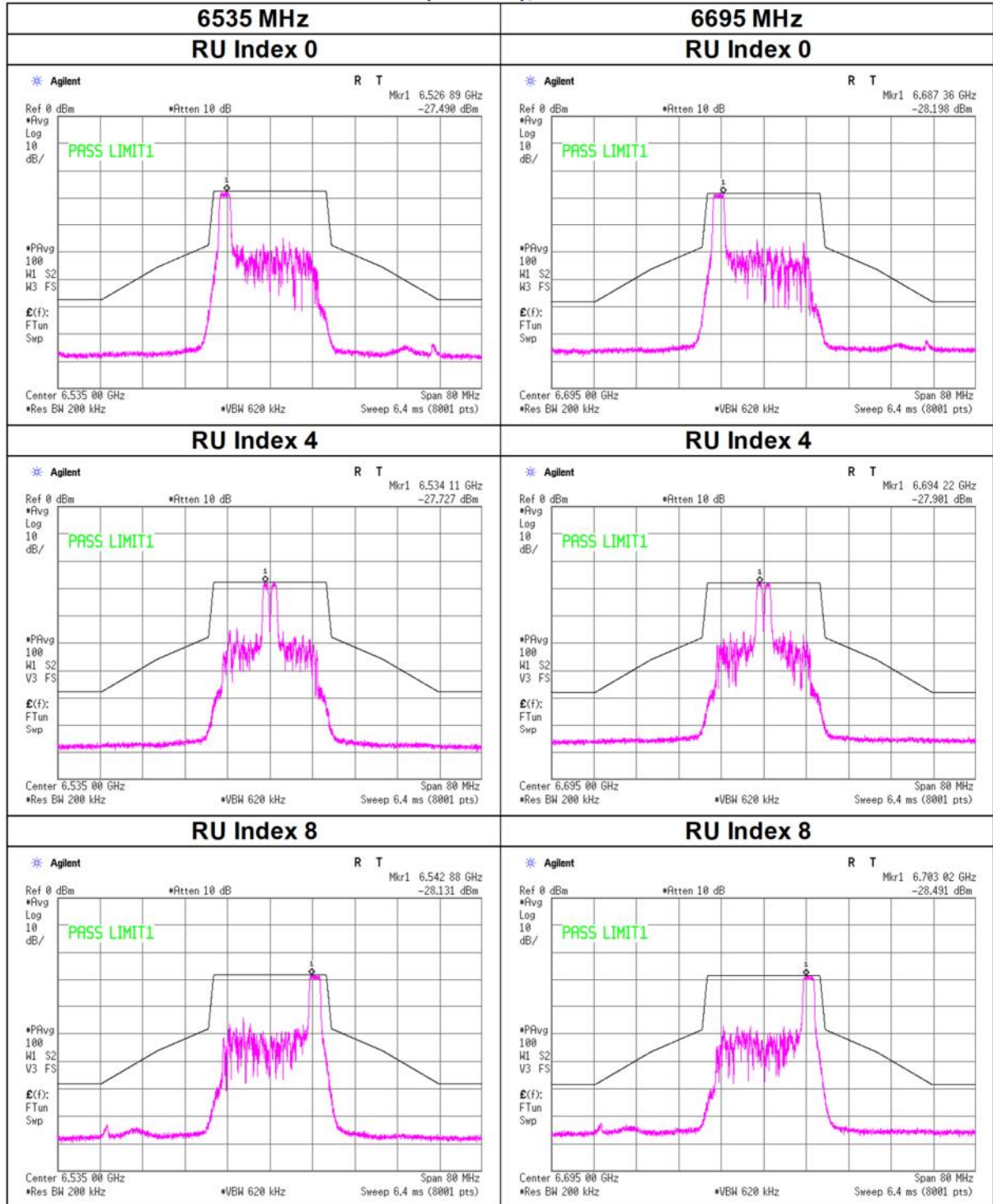


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

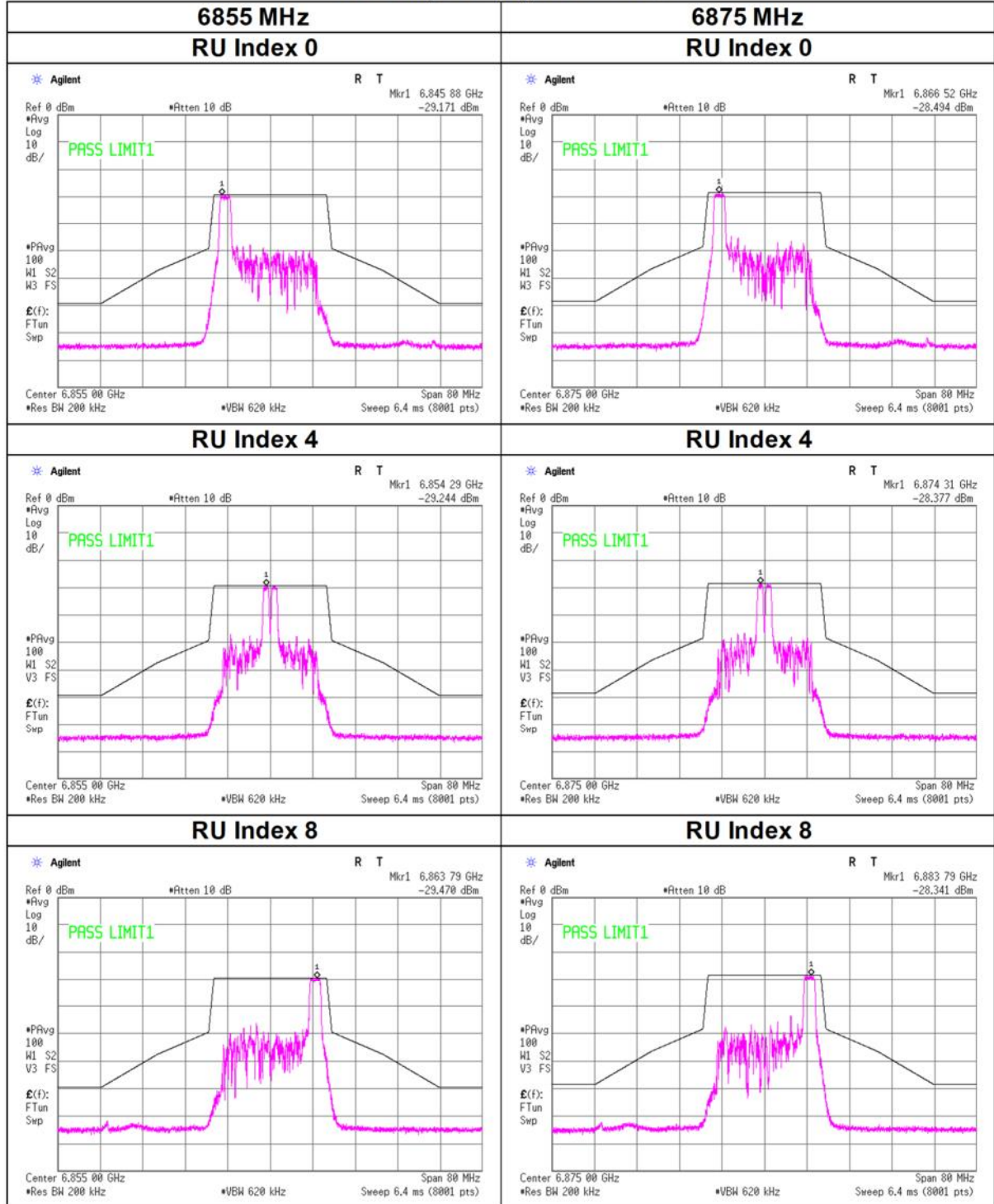


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

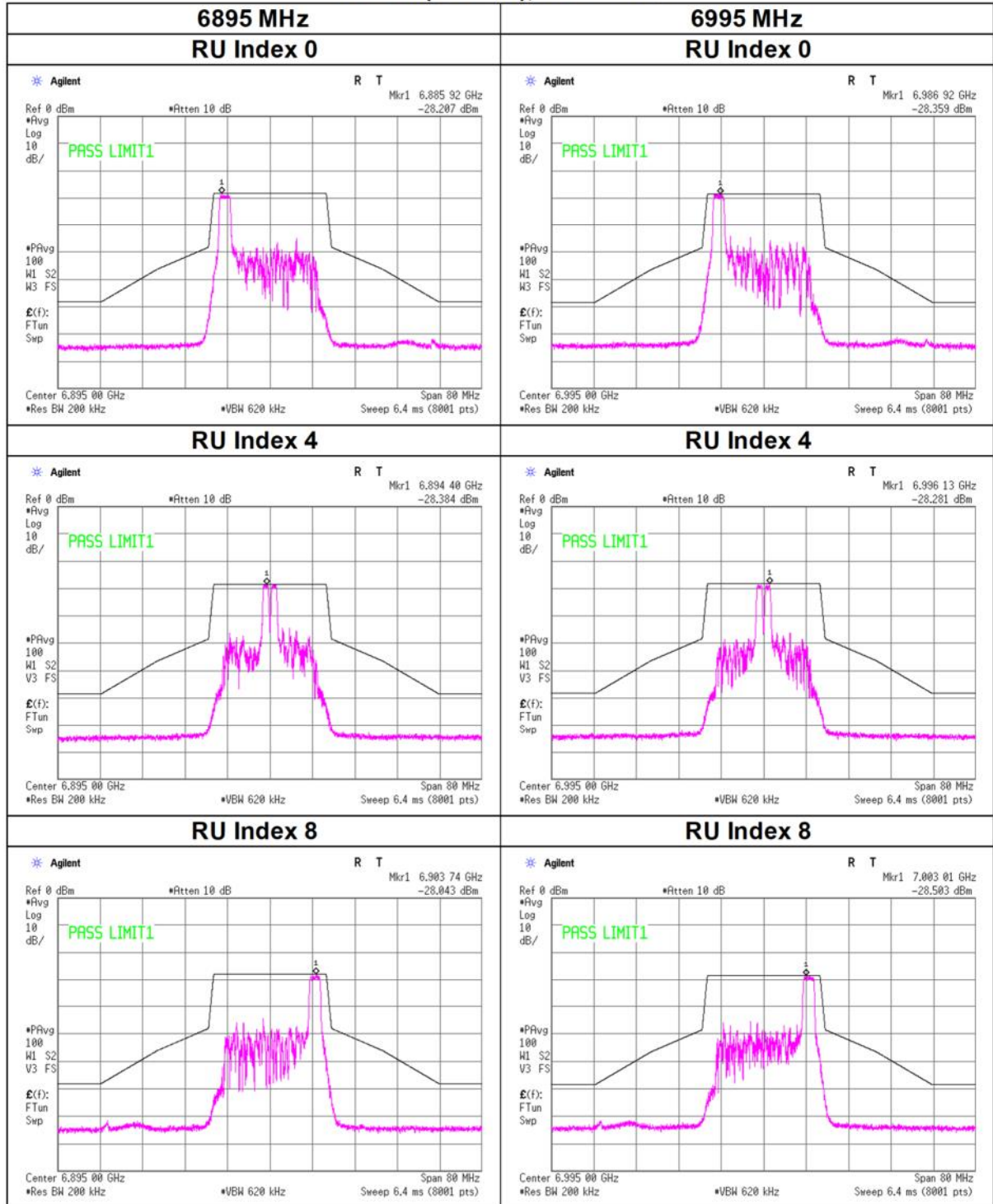


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

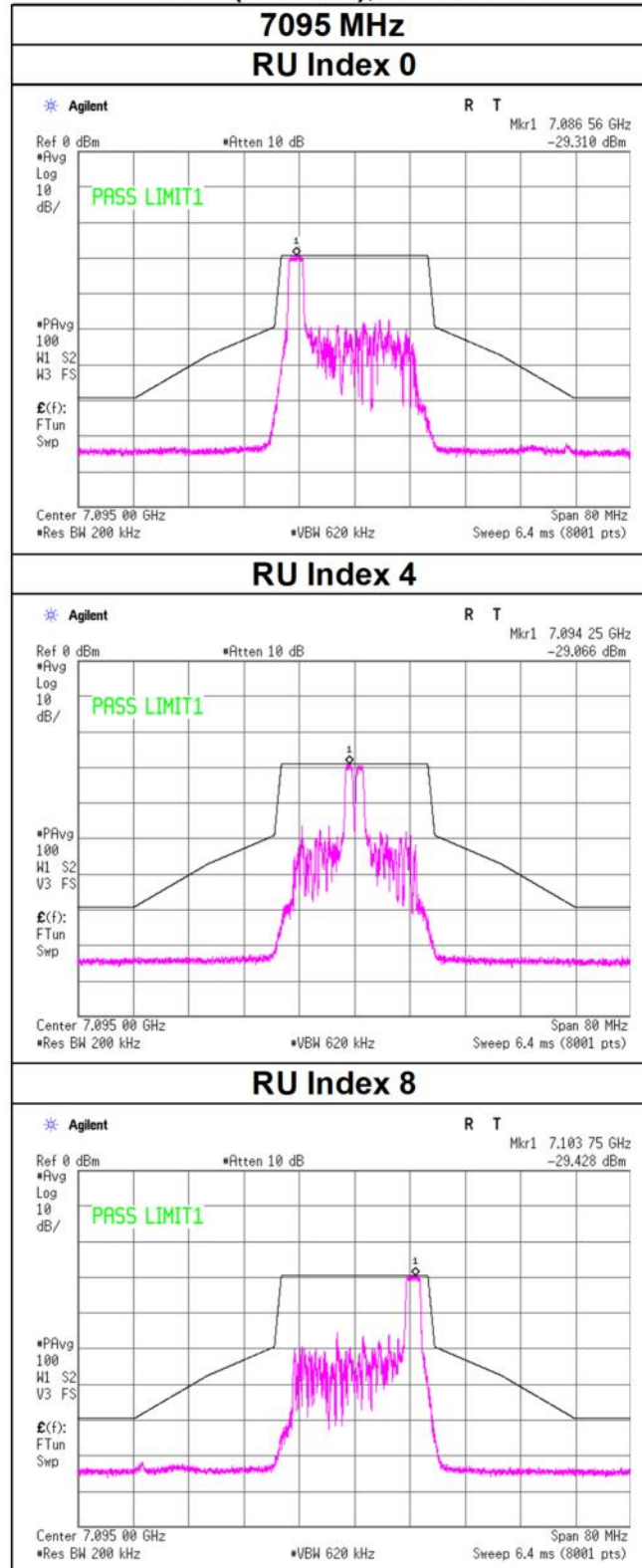


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 26-tone RU

11ax-20(OFDMA), 26-tone RU

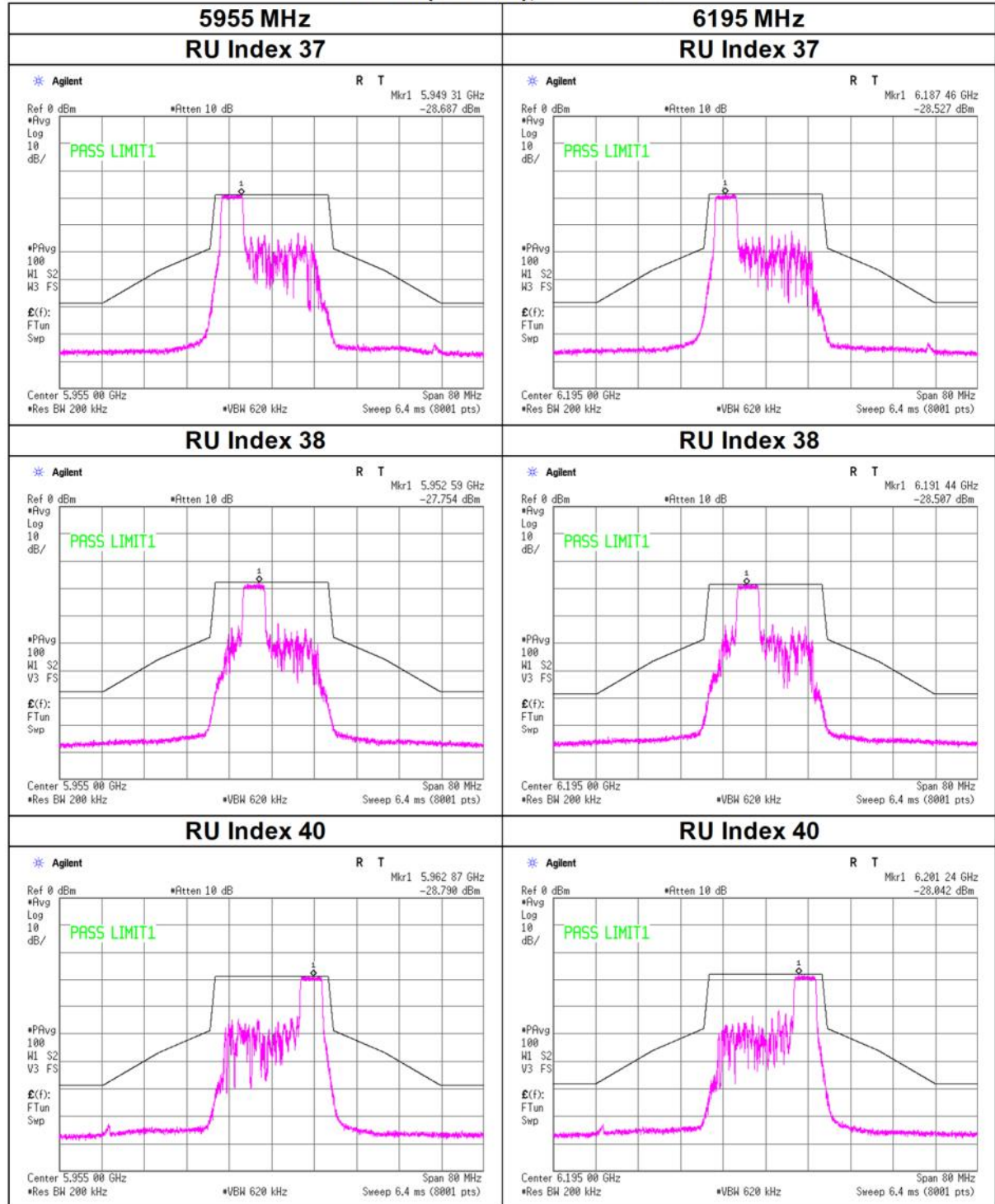


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

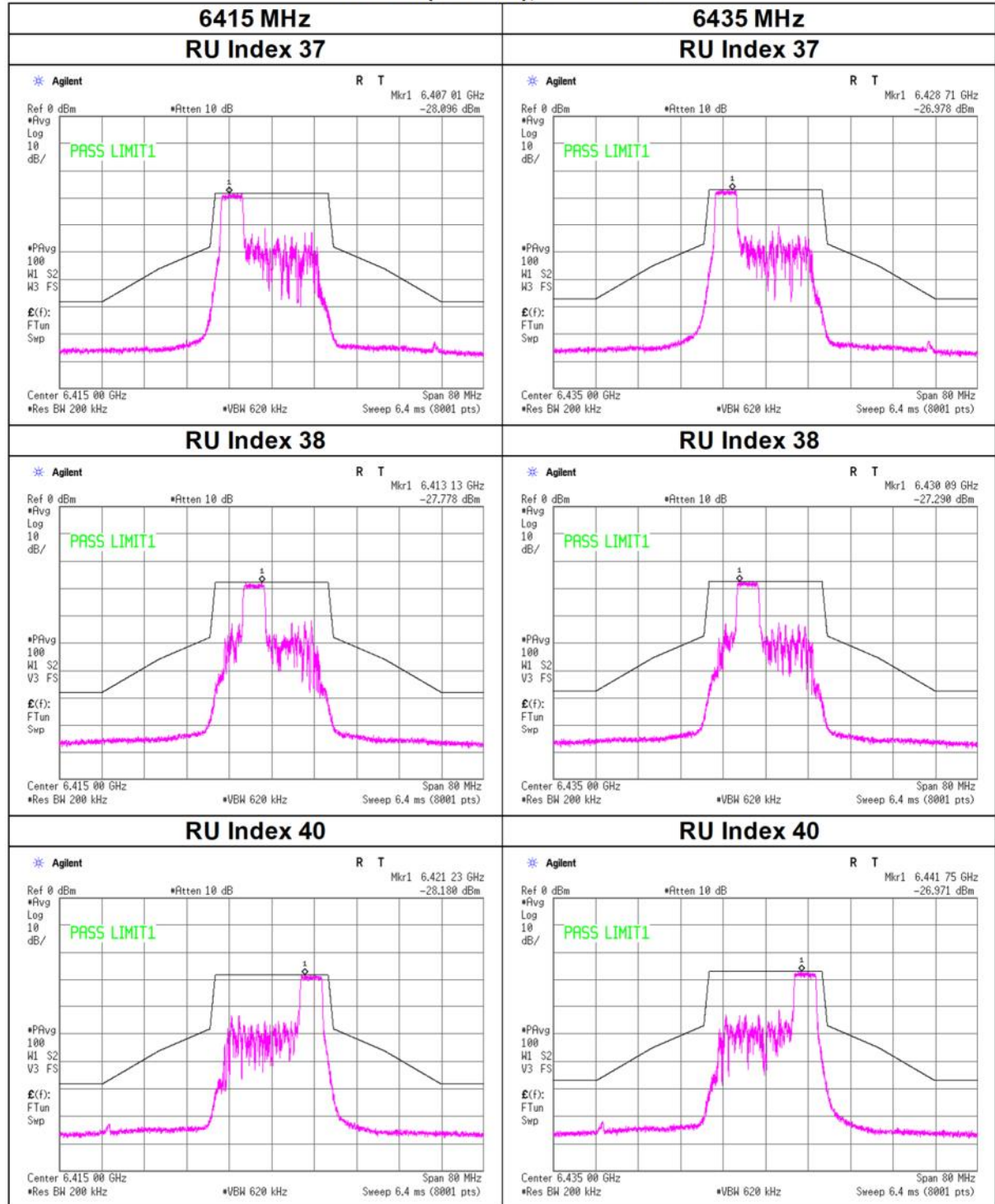


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

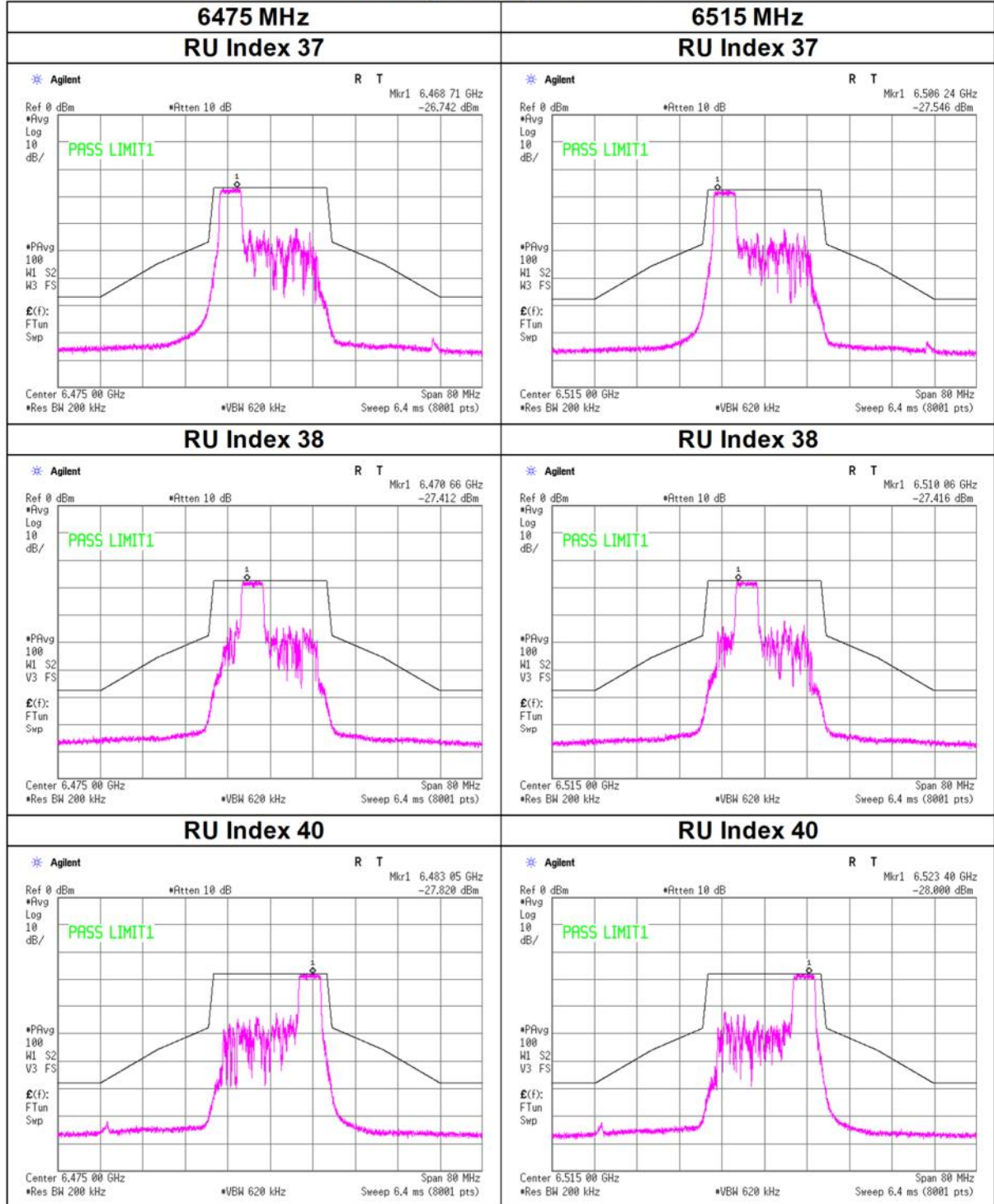


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

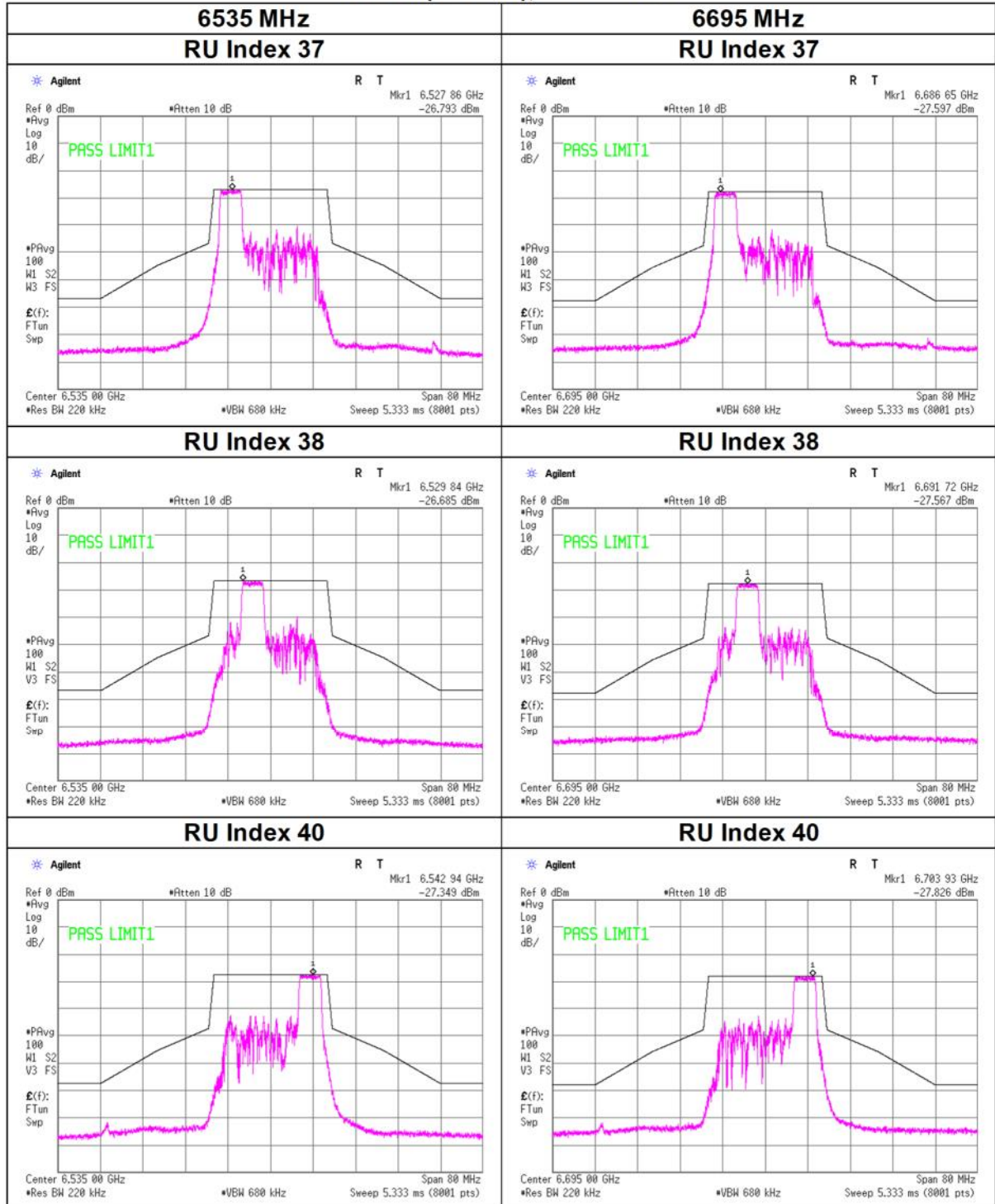


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

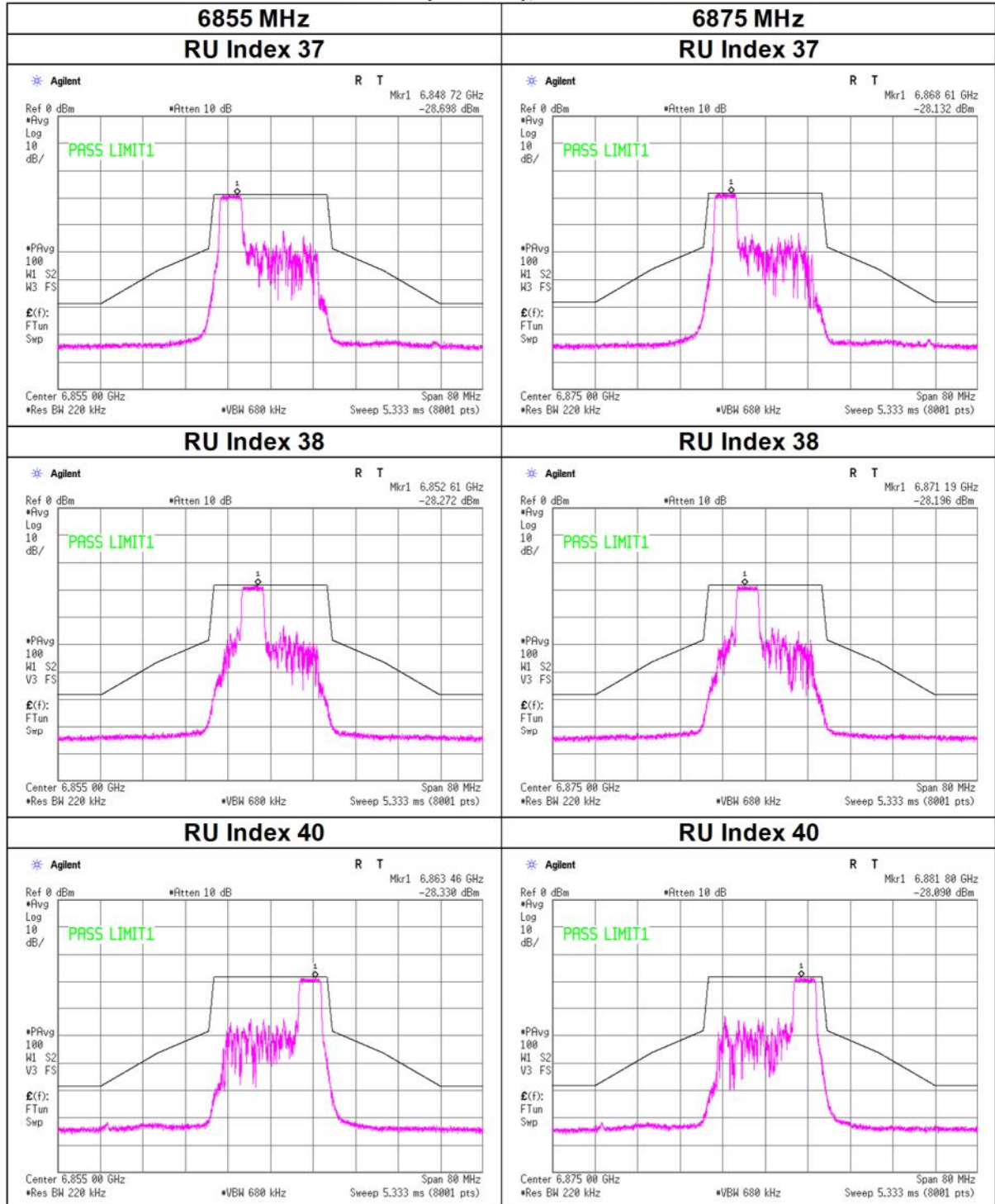


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

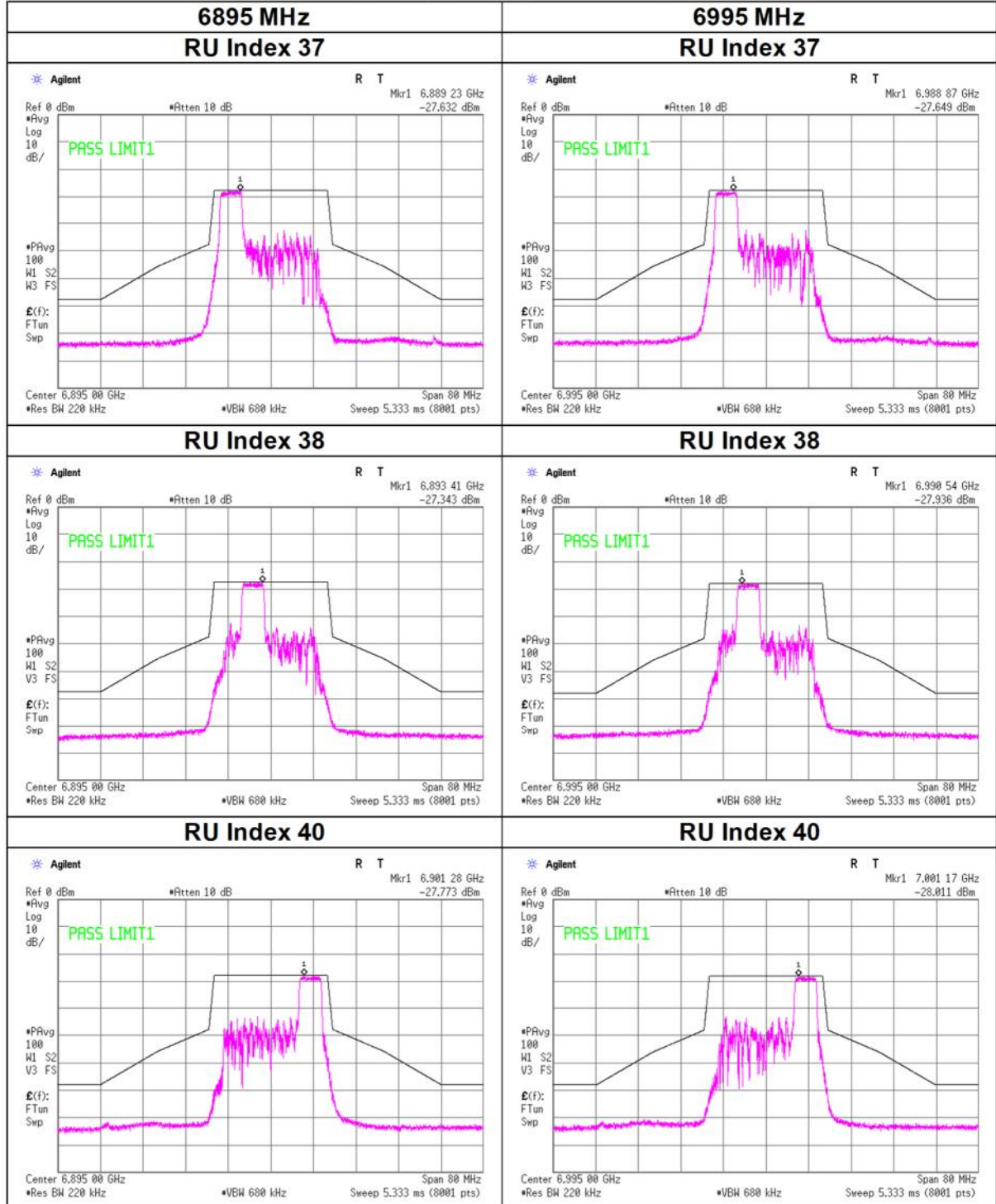


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

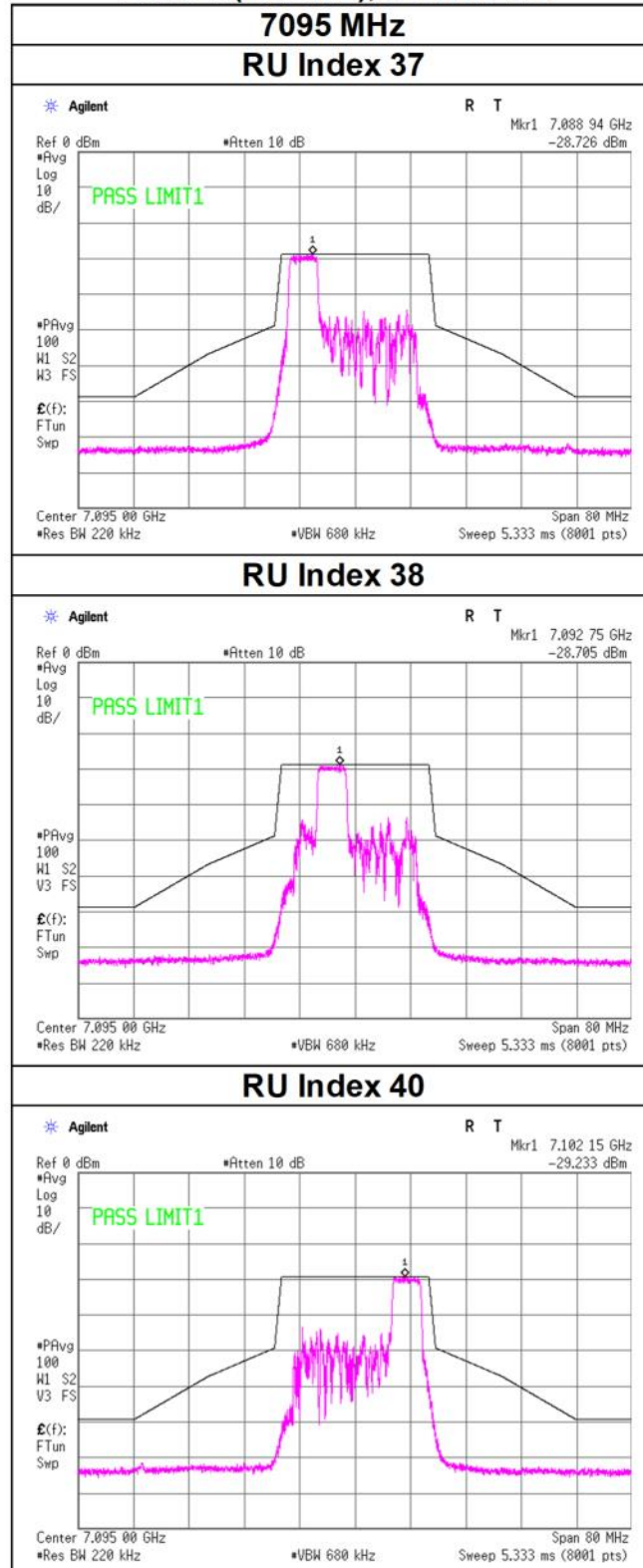


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 52-tone RU

11ax-20(OFDMA), 52-tone RU

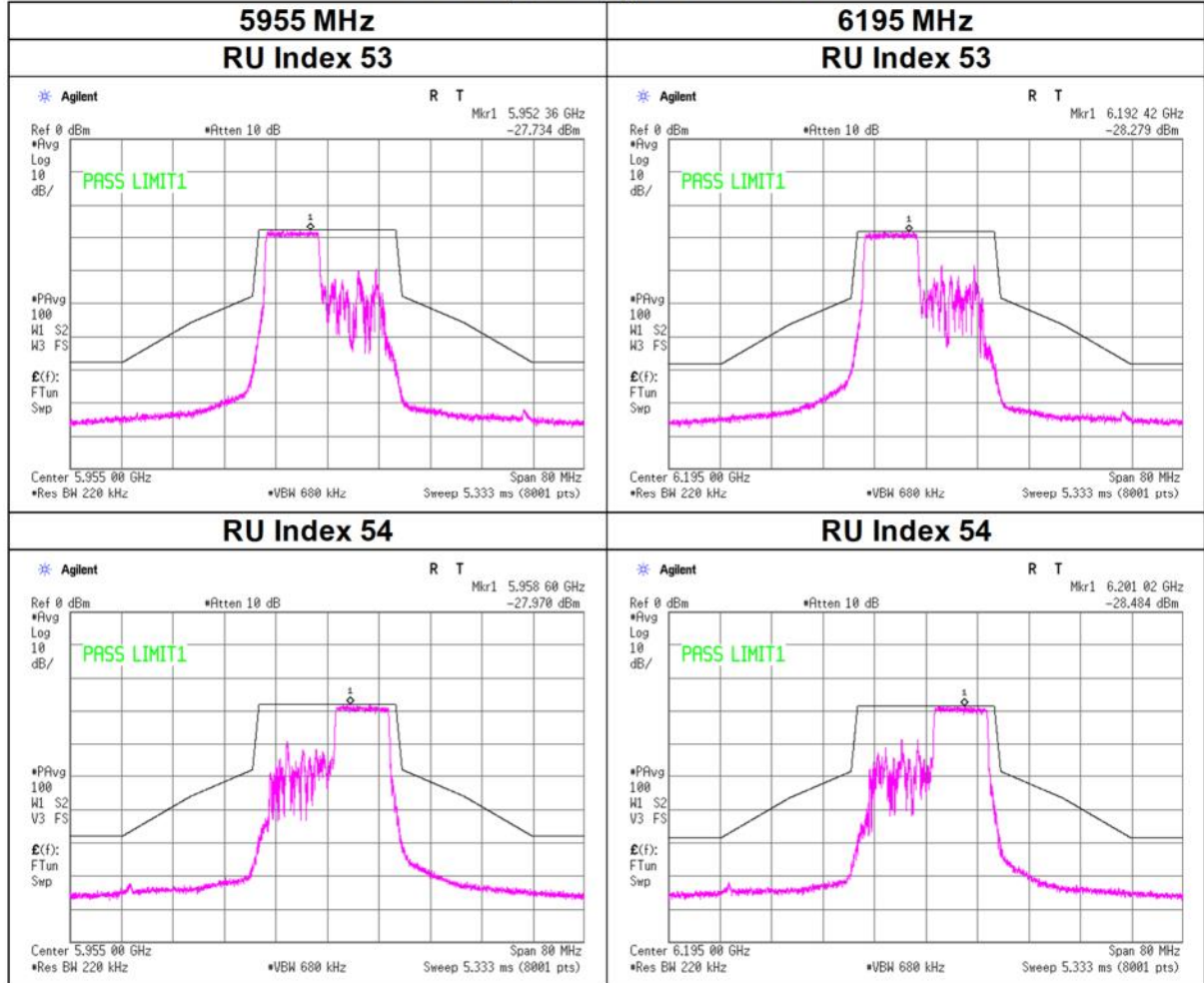


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

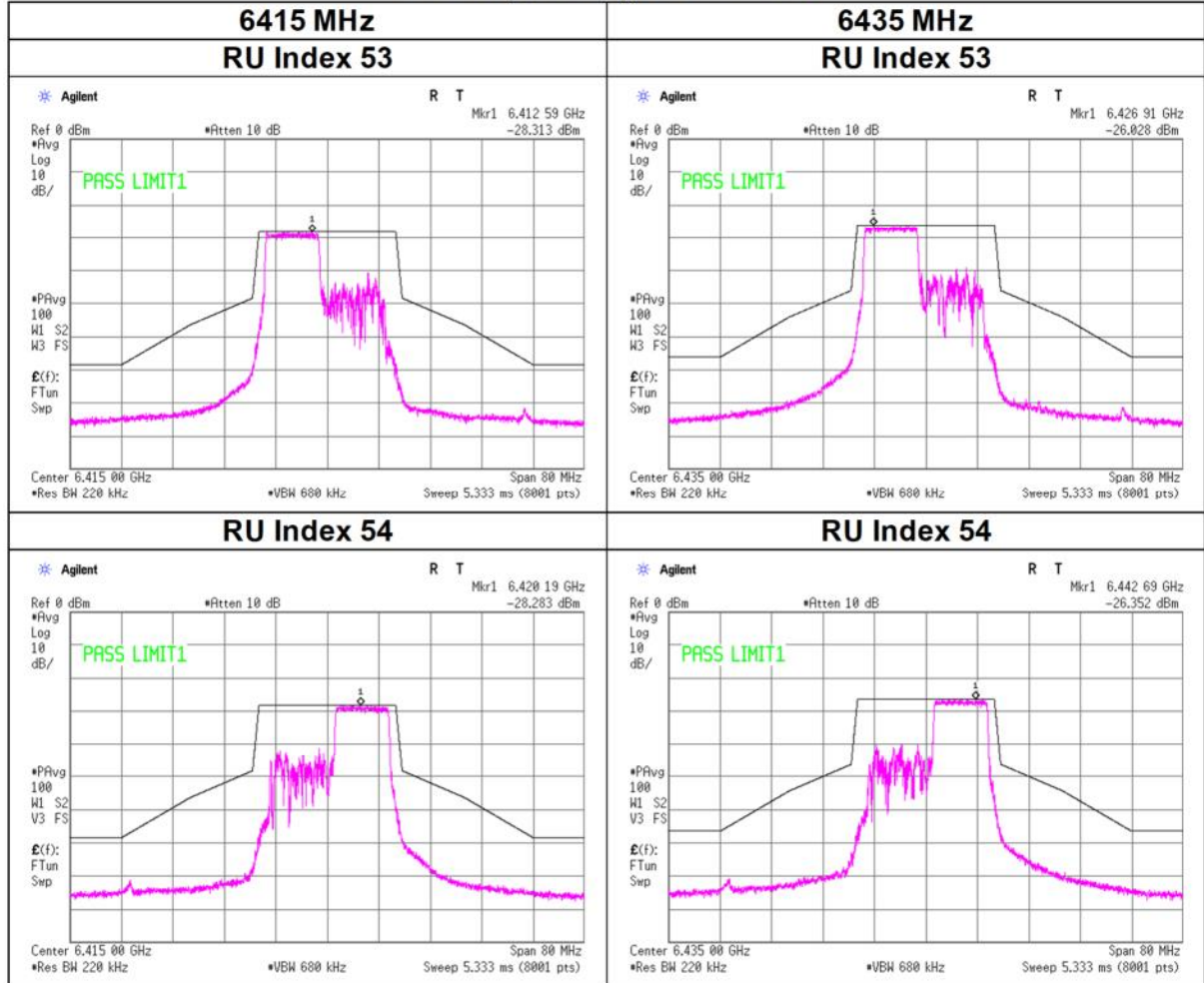


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

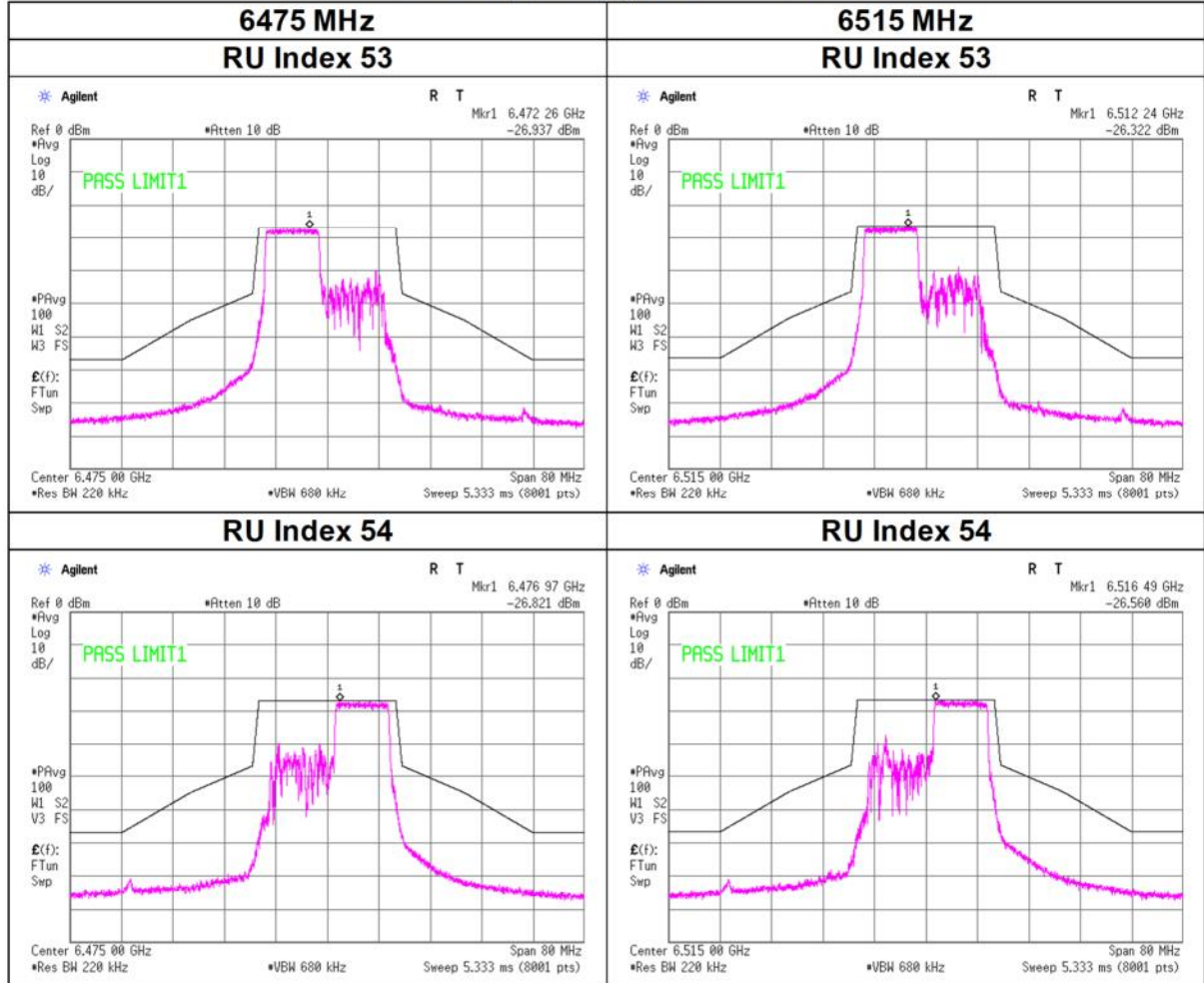


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

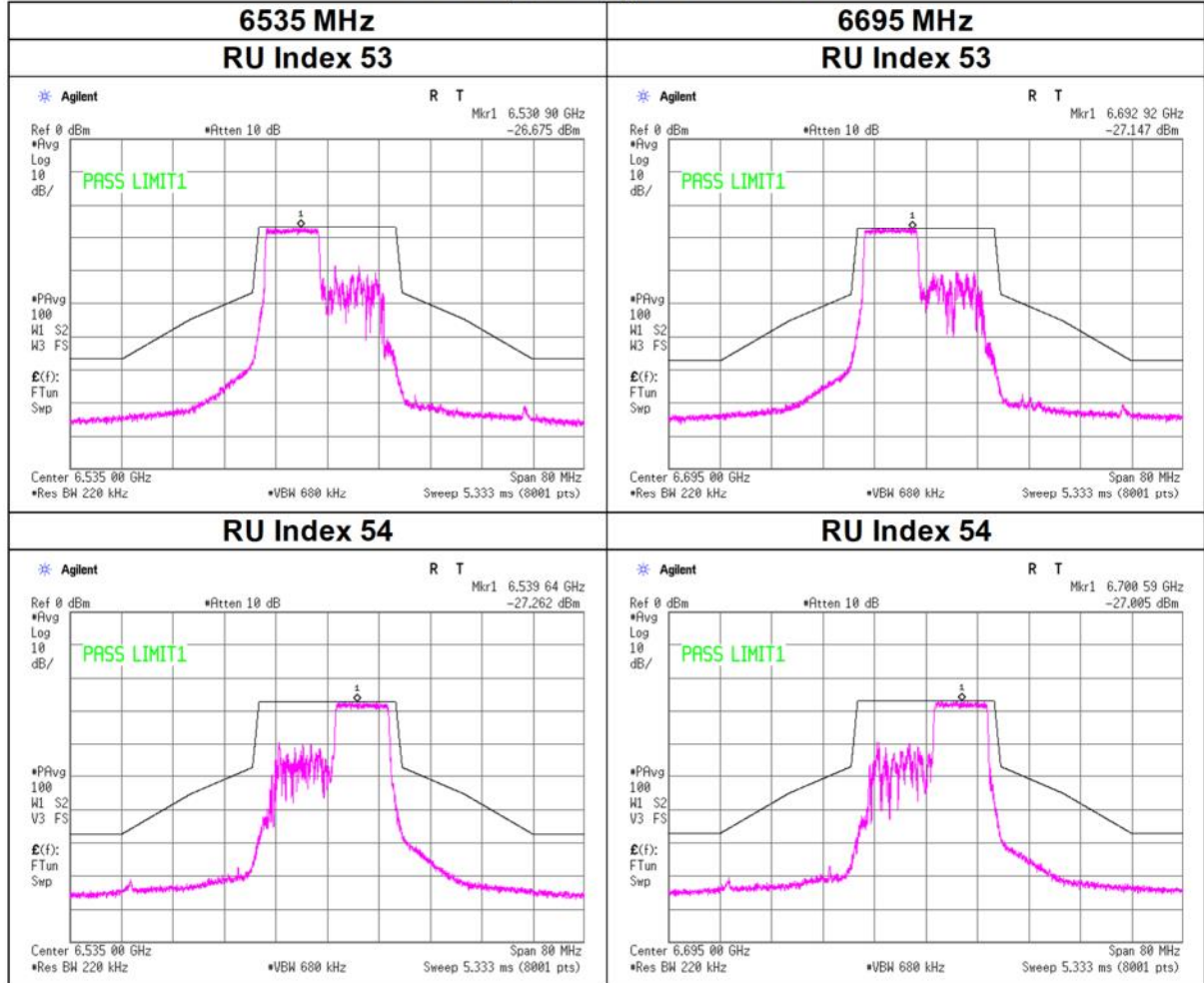


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

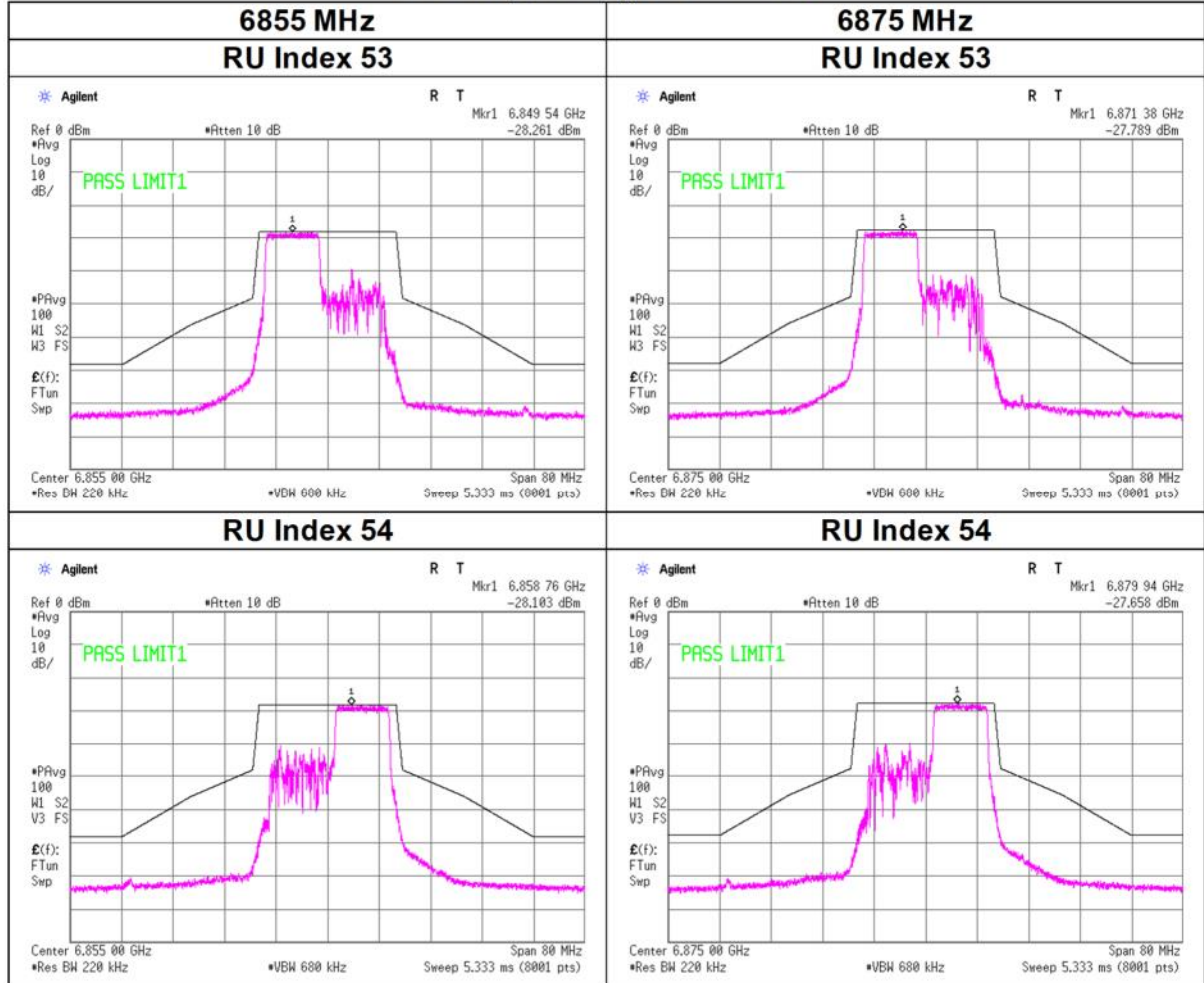


In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

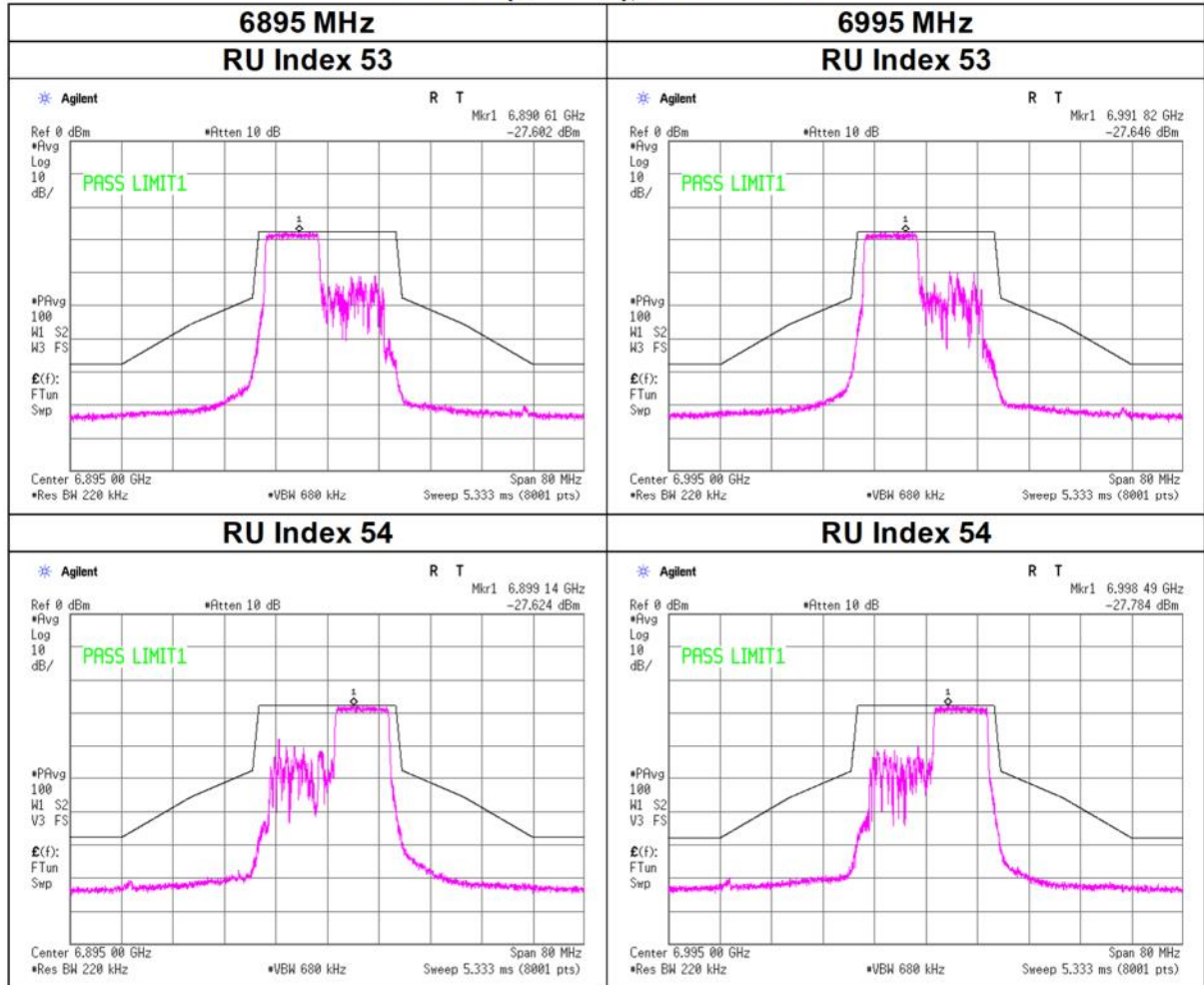


In-Band Emissions

Test place
Date
Temperature / Humidity
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Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU



In-Band Emissions

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.5 Shielded Room
April 27, 2024
26 deg. C / 37 % RH
Yosuke Murakami
Tx 11ax-20 (OFDMA) 106-tone RU

11ax-20(OFDMA), 106-tone RU

