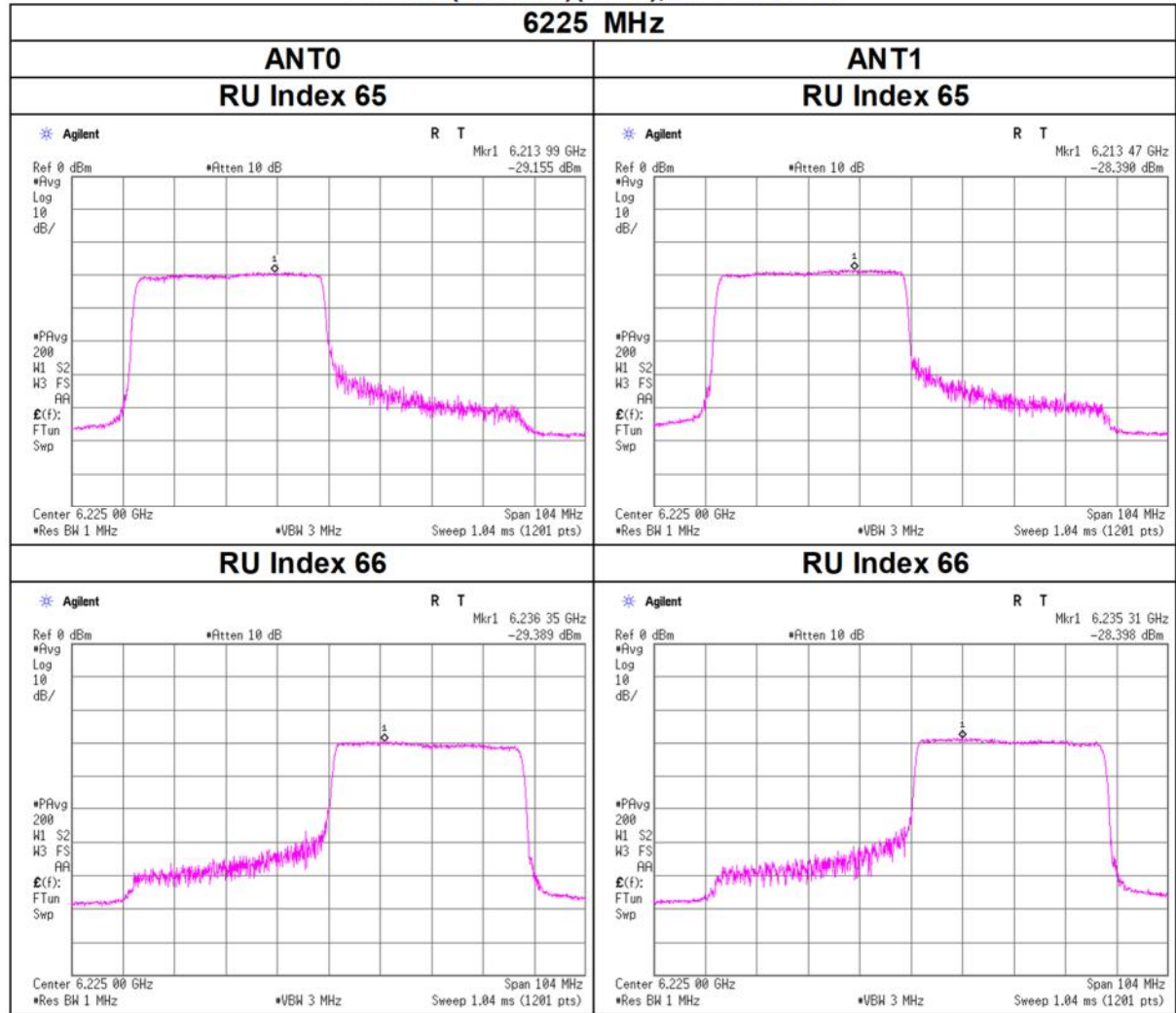


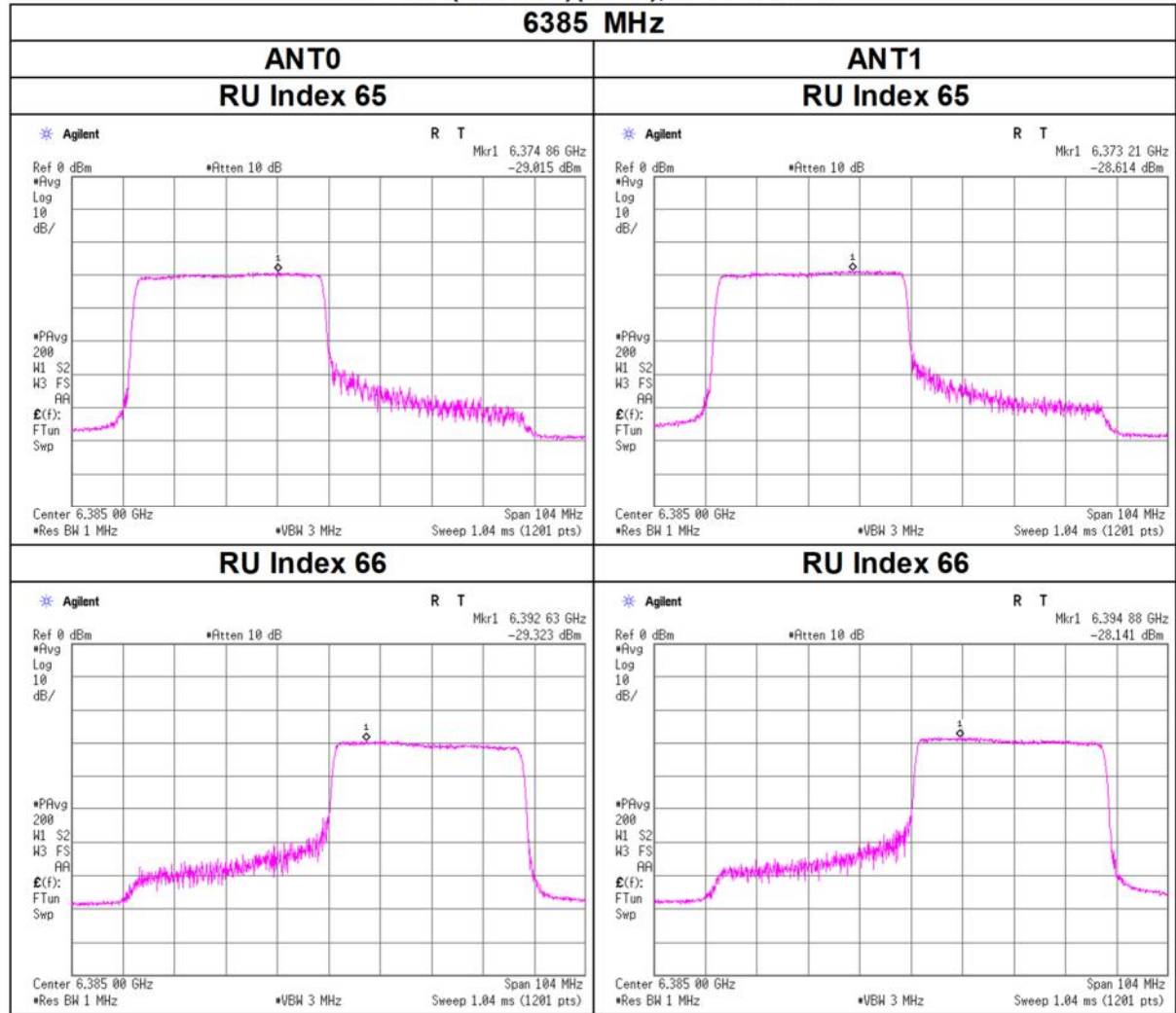
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



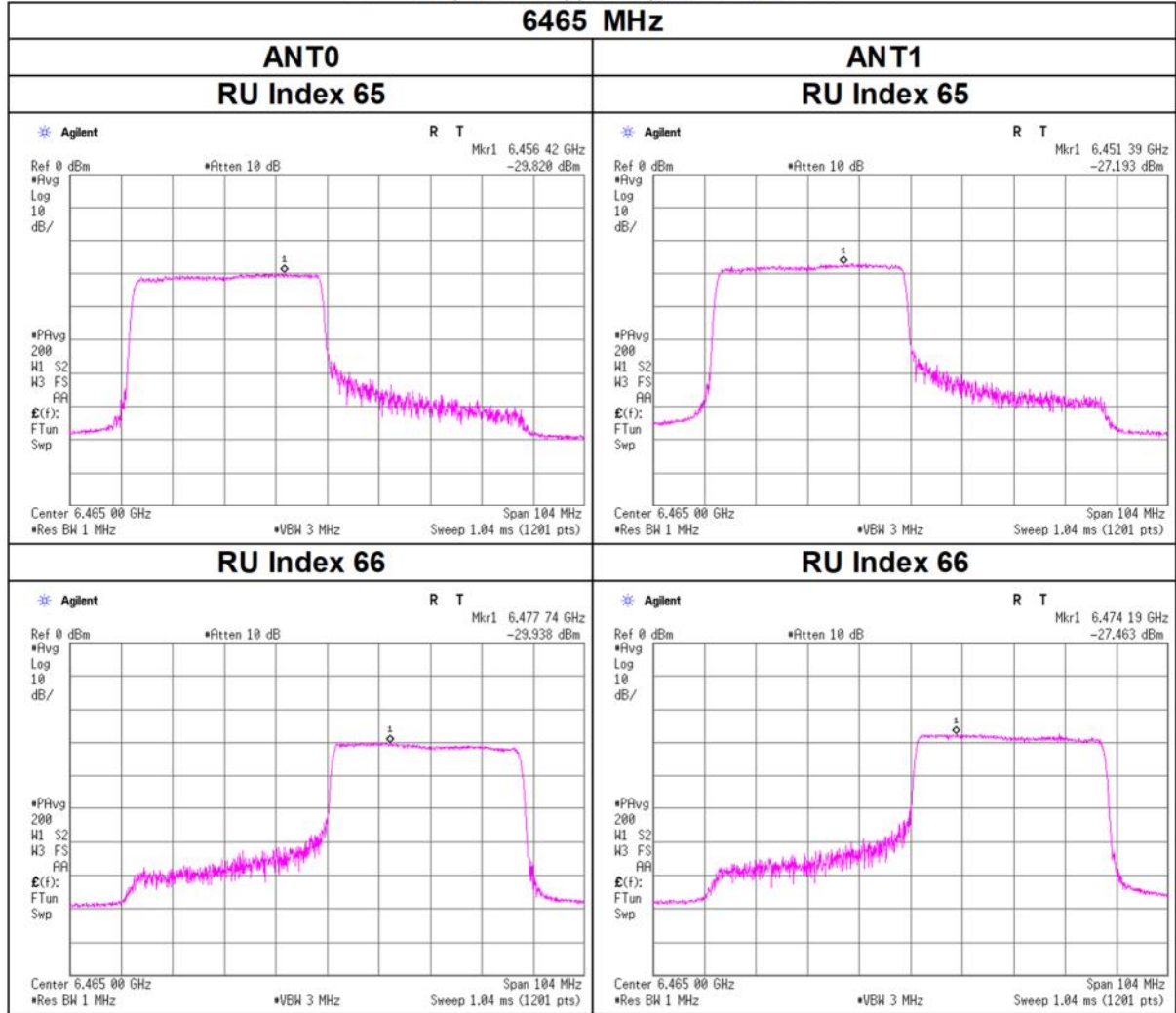
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



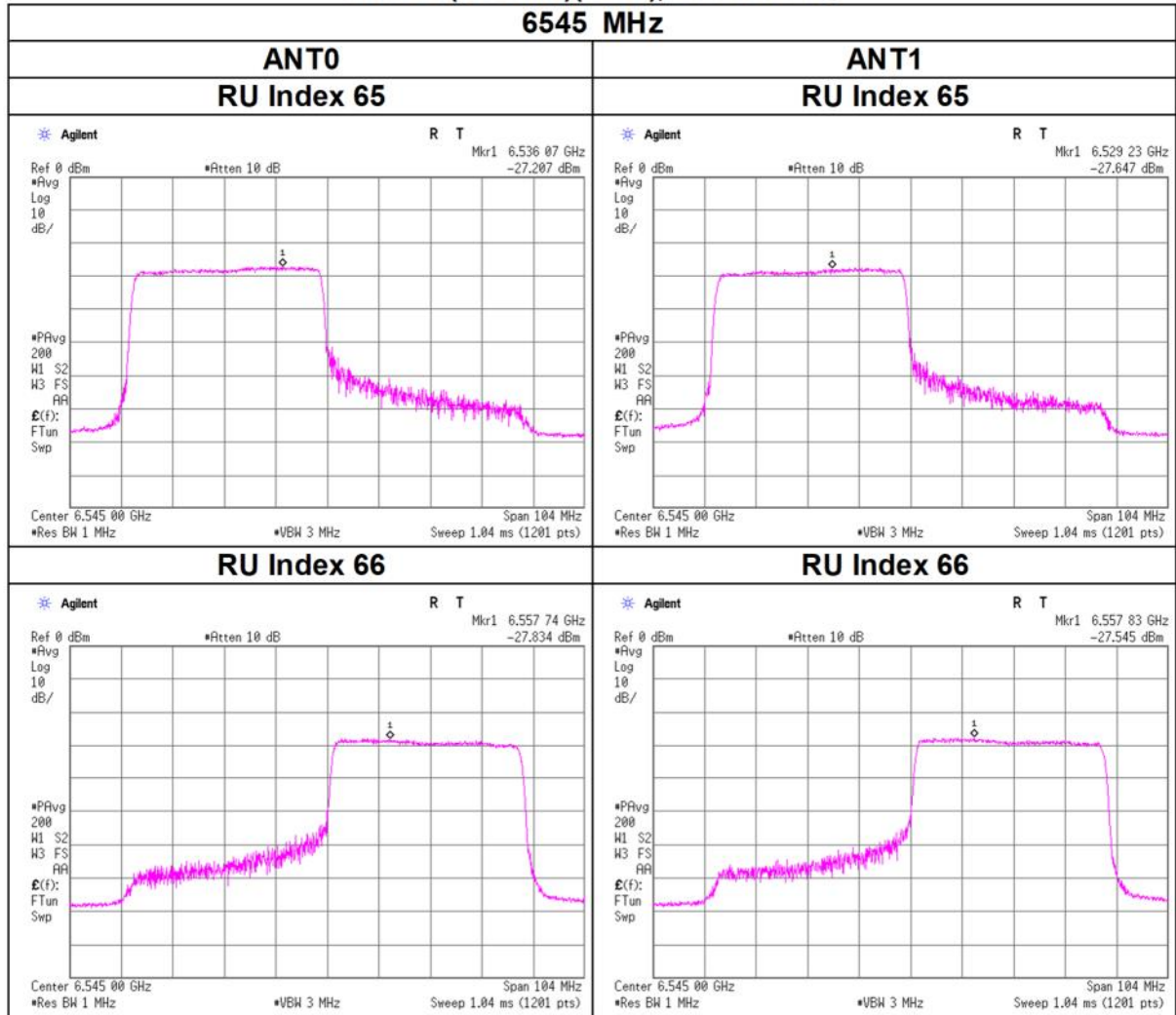
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



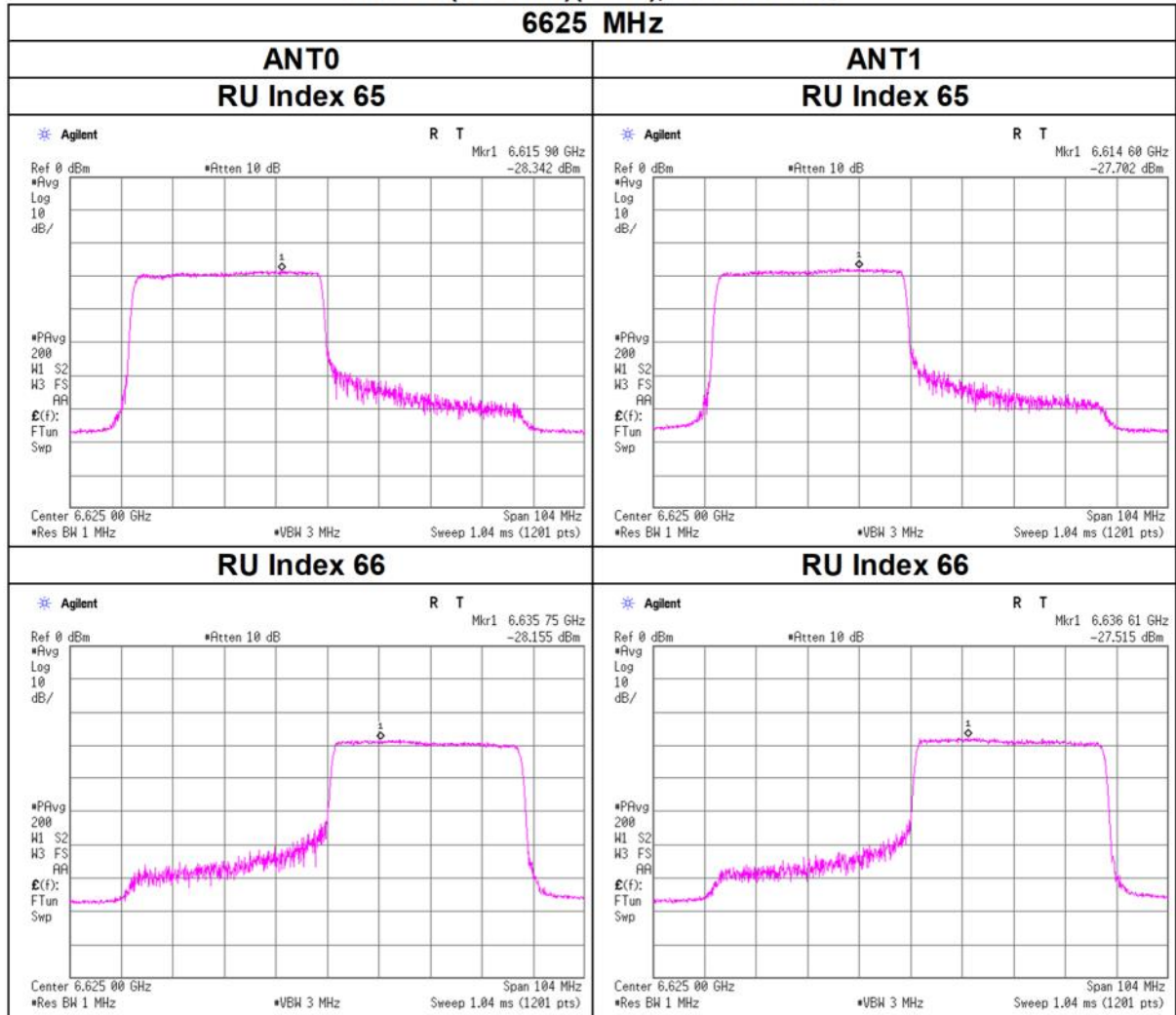
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



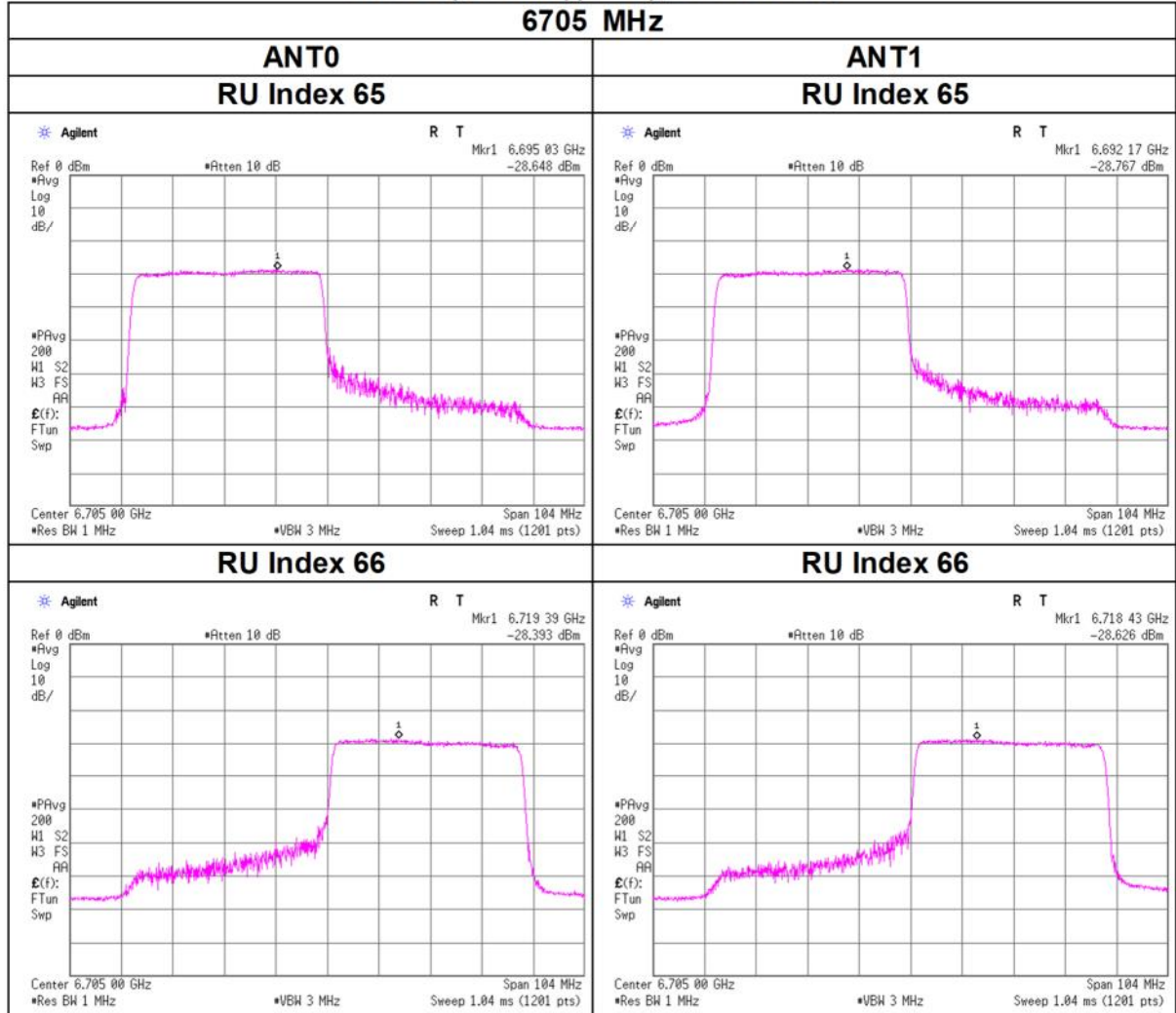
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



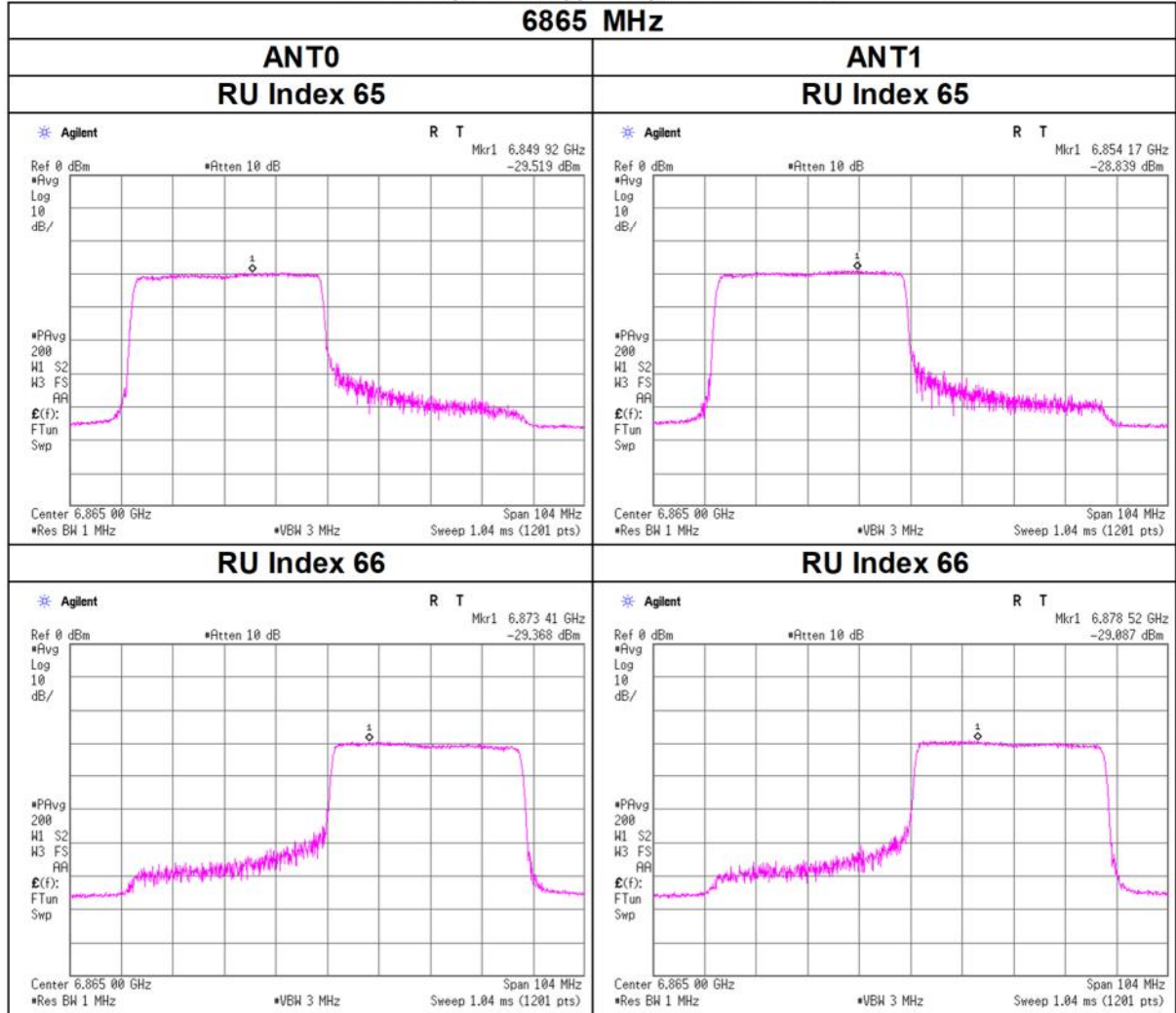
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



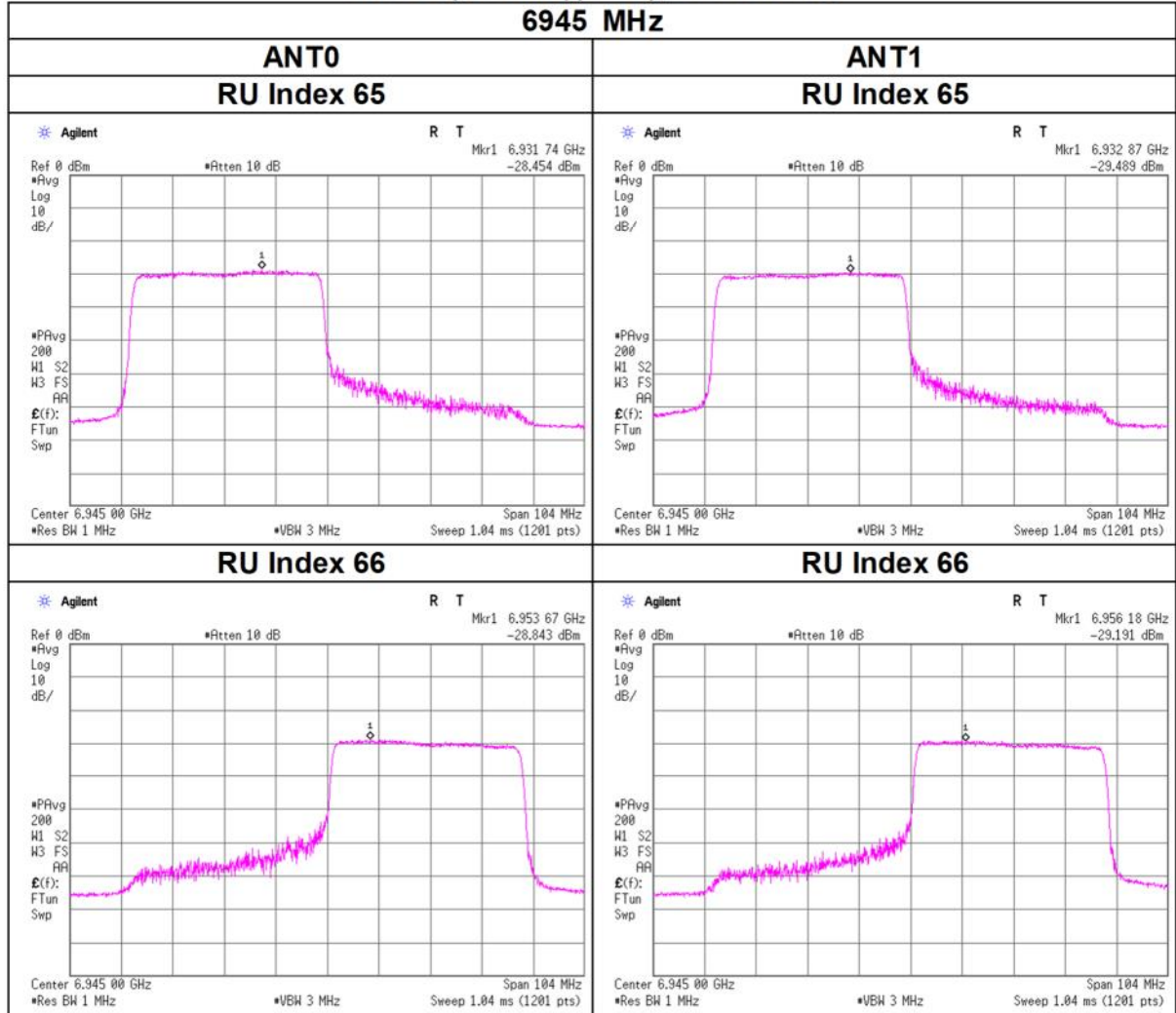
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



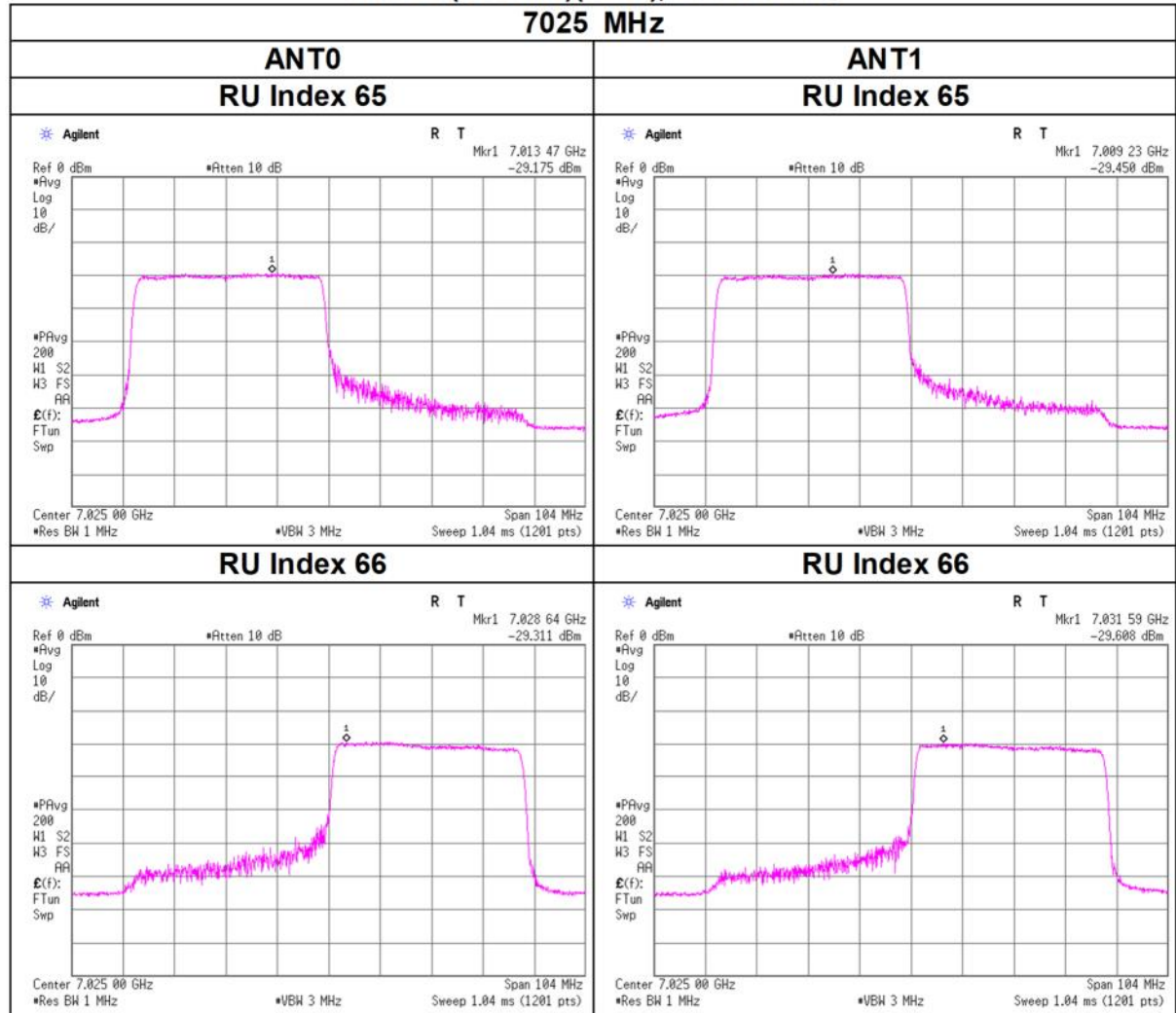
Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 484-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 26, 2024
Temperature / Humidity 24 deg. C / 33 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 996-tone RU (SDM)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
[MHz]		ANT0	ANT1					ANT0	ANT1				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5985	67	0.05	0.05	0.10	-10.05	-	-	0.07	0.07	0.14	-8.44	-1.00	7.44
6225	67	0.05	0.05	0.10	-10.07	-	-	0.07	0.08	0.14	-8.46	-1.00	7.46
6385	67	0.05	0.05	0.10	-9.90	-	-	0.07	0.08	0.15	-8.29	-1.00	7.29
6465	67	0.05	0.07	0.11	-9.42	-	-	0.07	0.10	0.17	-7.81	-1.00	6.81

ANT0								ANT1							
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenn Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]
5985	67	0.10	-26.38	3.27	9.98	1.61	-13.02 -11.41	-26.59	3.30	10.10	1.61	-13.10	-26.59	3.30	10.10
6225	67	0.10	-26.80	3.34	9.98	1.61	-13.38 -11.77	-26.38	3.36	10.10	1.61	-12.81	-26.38	3.36	10.10
6385	67	0.10	-26.52	3.39	9.99	1.61	-13.05 -11.44	-26.39	3.41	10.11	1.61	-12.77	-26.39	3.41	10.11
6465	67	0.10	-26.77	3.41	9.99	1.61	-13.27 -11.66	-25.36	3.43	10.11	1.61	-11.72	-25.36	3.43	10.11

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Antenna Gain

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
[MHz]		ANT0	ANT1					ANT0	ANT1				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
6545	67	0.08	0.08	0.16	-7.90	-	-	0.10	0.09	0.19	-7.30	-1.00	6.30
6625	67	0.07	0.07	0.13	-8.76	-	-	0.08	0.07	0.15	-8.16	-1.00	7.16
6705	67	0.07	0.07	0.14	-8.49	-	-	0.08	0.08	0.16	-7.89	-1.00	6.89
6865	67	0.06	0.06	0.11	-9.42	-	-	0.07	0.07	0.13	-8.82	-1.00	7.82
6945	67	0.06	0.05	0.11	-9.77	-	-	0.06	0.06	0.12	-9.17	-1.00	8.17
7025	67	0.06	0.05	0.11	-9.45	-	-	0.07	0.06	0.13	-8.85	-1.00	7.85

ANT0								ANT1							
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]	[dBi]	Cond. e.i.r.p.	[dBm/MHz]	[dB]	[dB]
6545	67	0.10	-24.22	3.43	9.99	0.60	-10.71 -10.11	-24.79	3.45	10.11	0.60	-11.12	-24.79	3.45	10.11
6625	67	0.10	-25.21	3.45	9.99	0.60	-11.67 -11.07	-25.55	3.47	10.11	0.60	-11.86	-25.55	3.47	10.11
6705	67	0.10	-25.23	3.47	9.99	0.60	-11.67 -11.07	-25.05	3.50	10.12	0.60	-11.34	-25.05	3.50	10.12
6865	67	0.10	-26.07	3.52	9.99	0.60	-12.46 -11.86	-26.16	3.54	10.12	0.60	-12.40	-26.16	3.54	10.12
6945	67	0.10	-26.19	3.54	9.99	0.60	-12.56 -11.96	-26.80	3.56	10.12	0.60	-13.02	-26.80	3.56	10.12
7025	67	0.10	-25.91	3.56	9.99	0.60	-12.25 -11.65	-26.48	3.58	10.12	0.60	-12.68	-26.48	3.58	10.12

Sample Calculation:

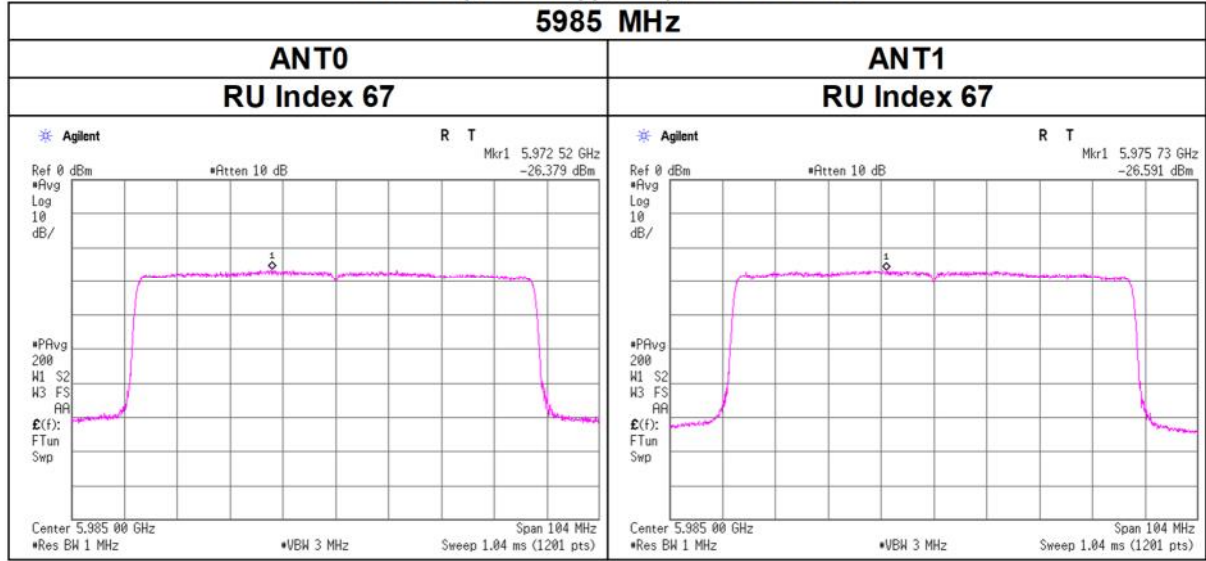
PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor

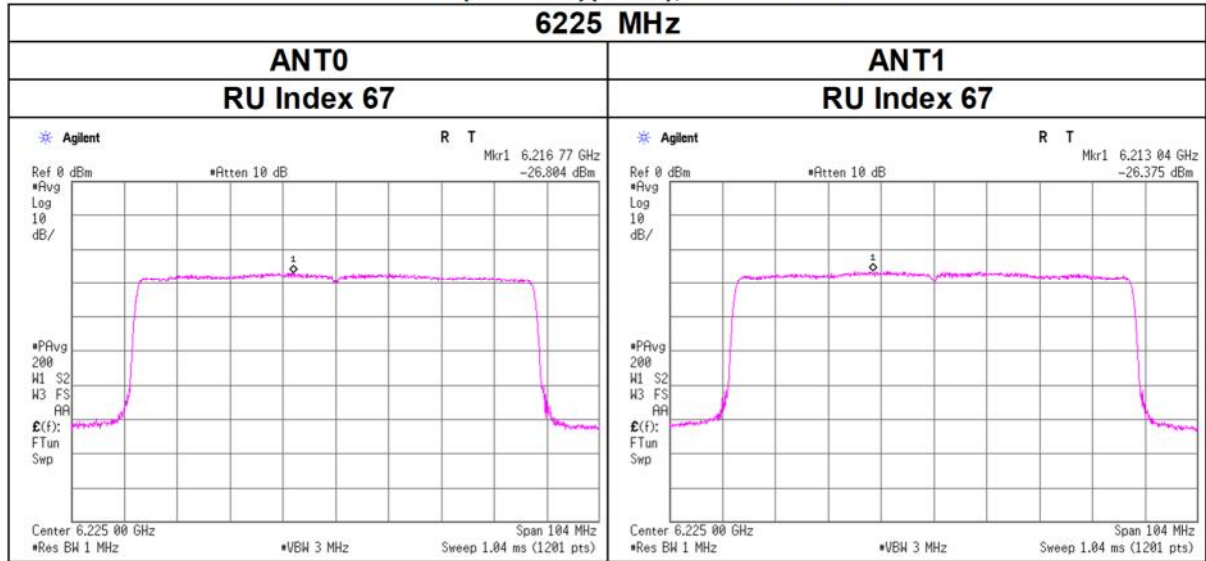
PSD (e.i.r.p.) Result = PSD (Conducted) Result + Antenna Gain

Maximum Power Spectral Density

11ax-80(OFDMA)(SDM), 996-tone RU

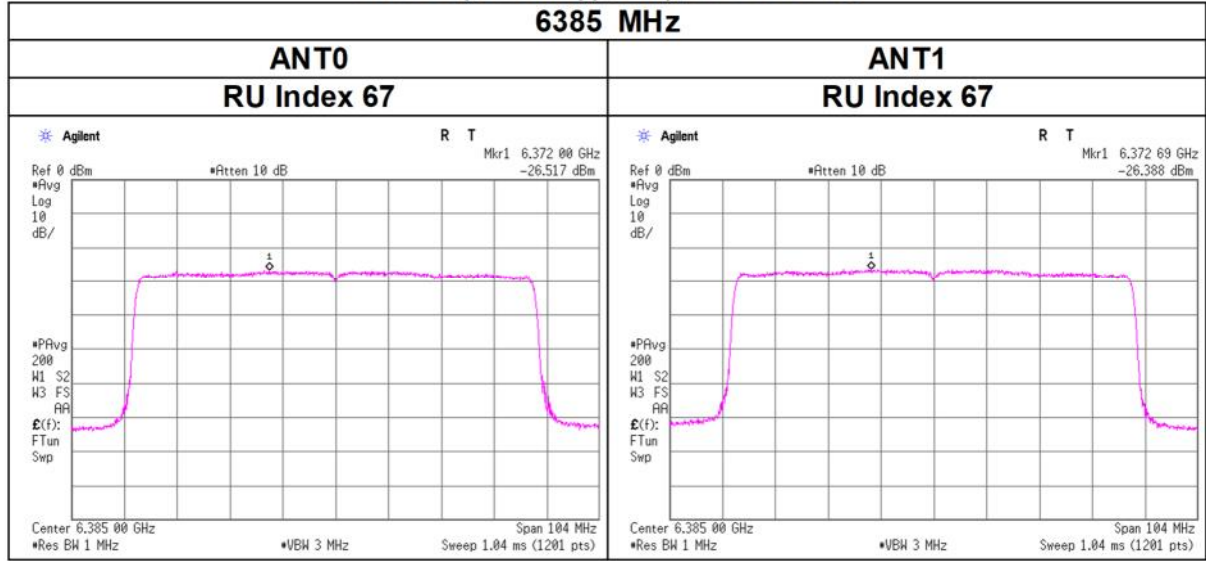


11ax-80(OFDMA)(SDM), 996-tone RU

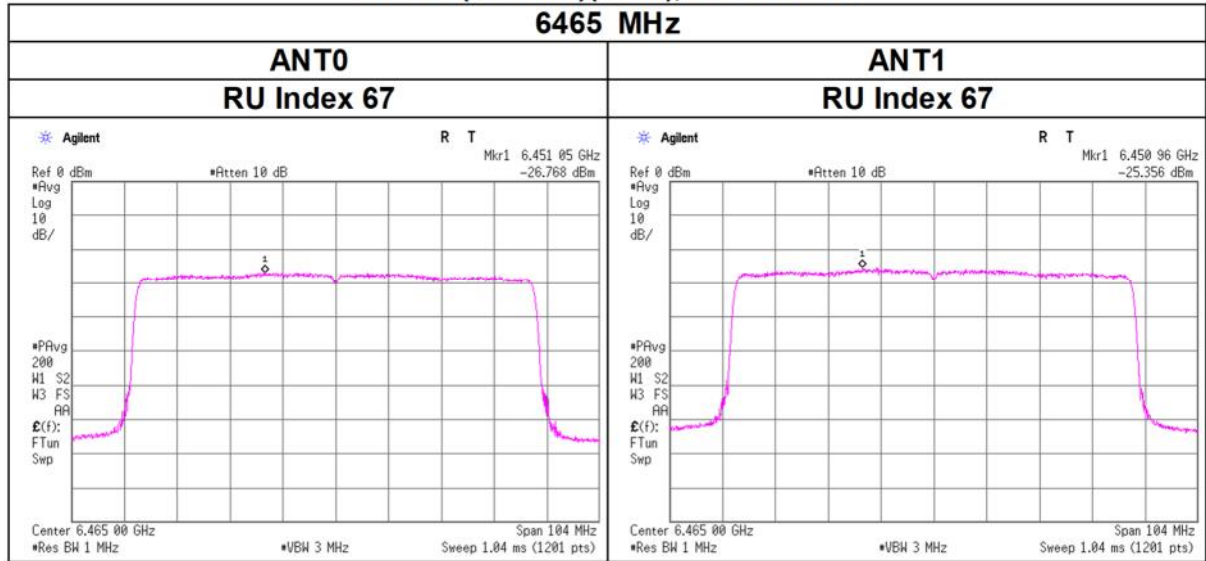


Maximum Power Spectral Density

11ax-80(OFDMA)(SDM), 996-tone RU

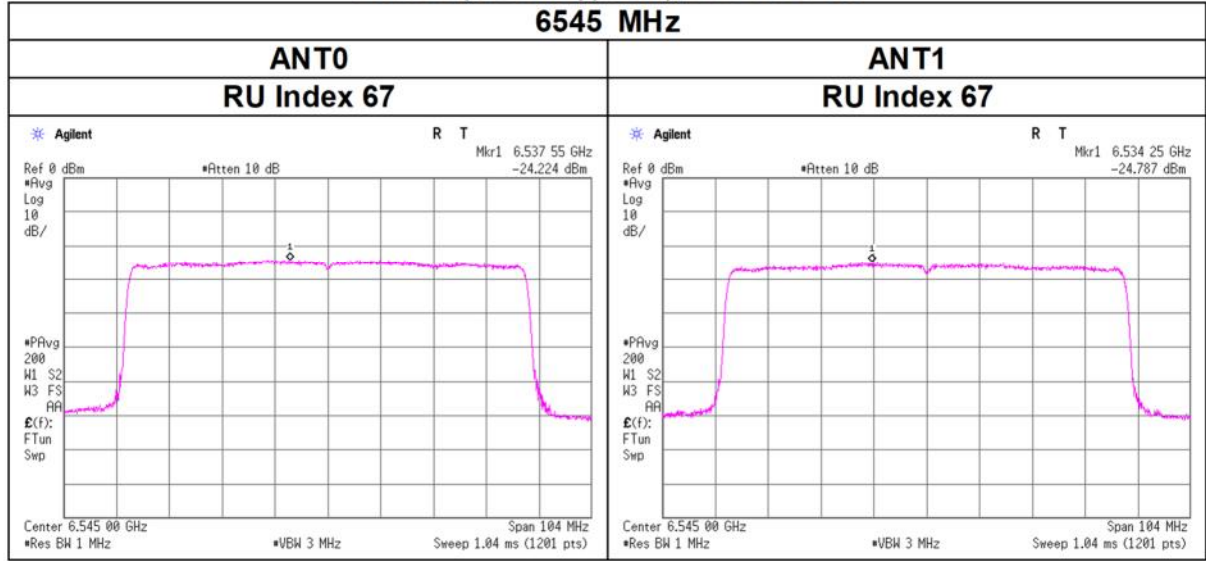


11ax-80(OFDMA)(SDM), 996-tone RU

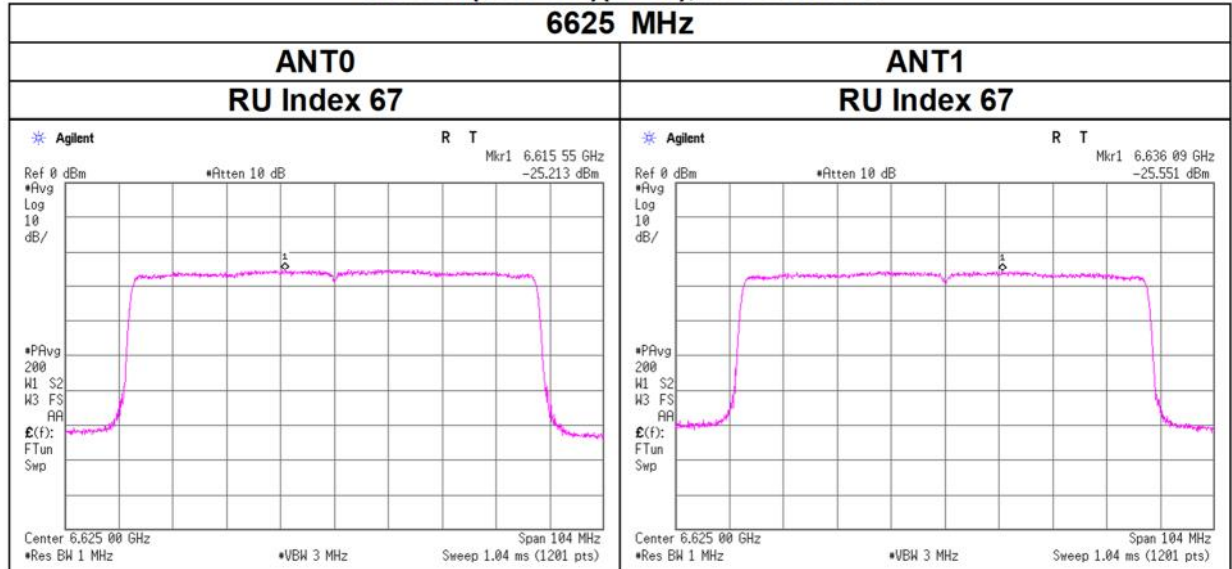


Maximum Power Spectral Density

11ax-80(OFDMA)(SDM), 996-tone RU

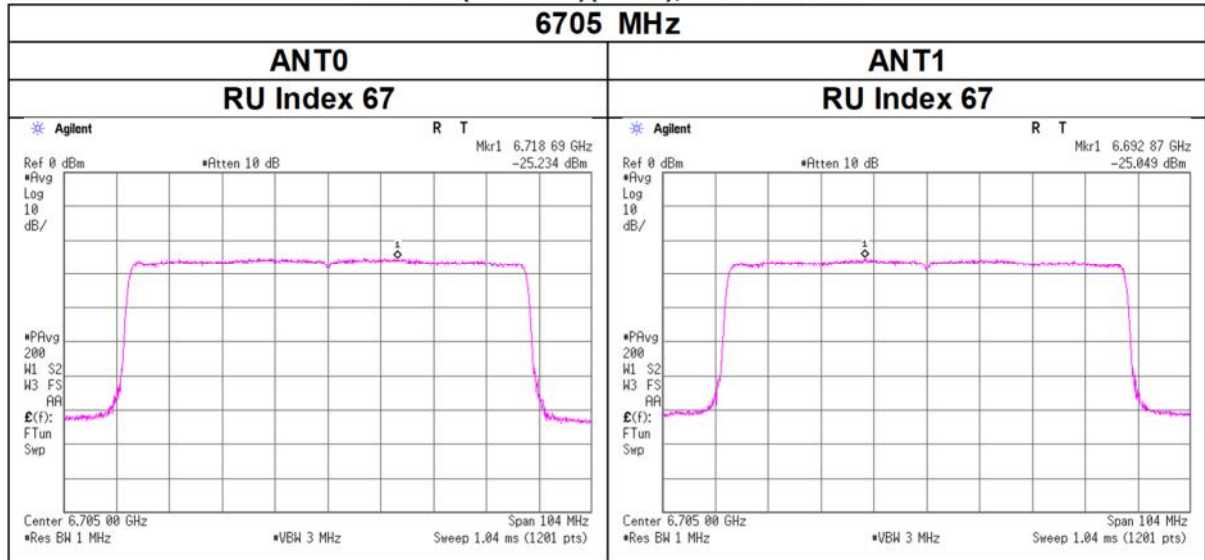


11ax-80(OFDMA)(SDM), 996-tone RU

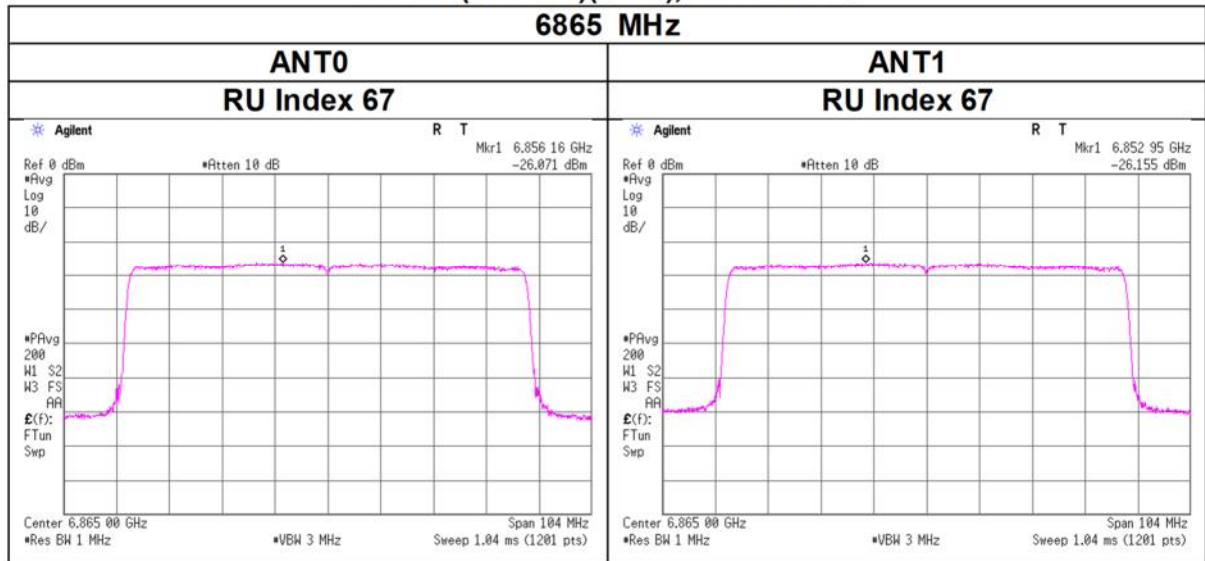


Maximum Power Spectral Density

11ax-80(OFDMA)(SDM), 996-tone RU

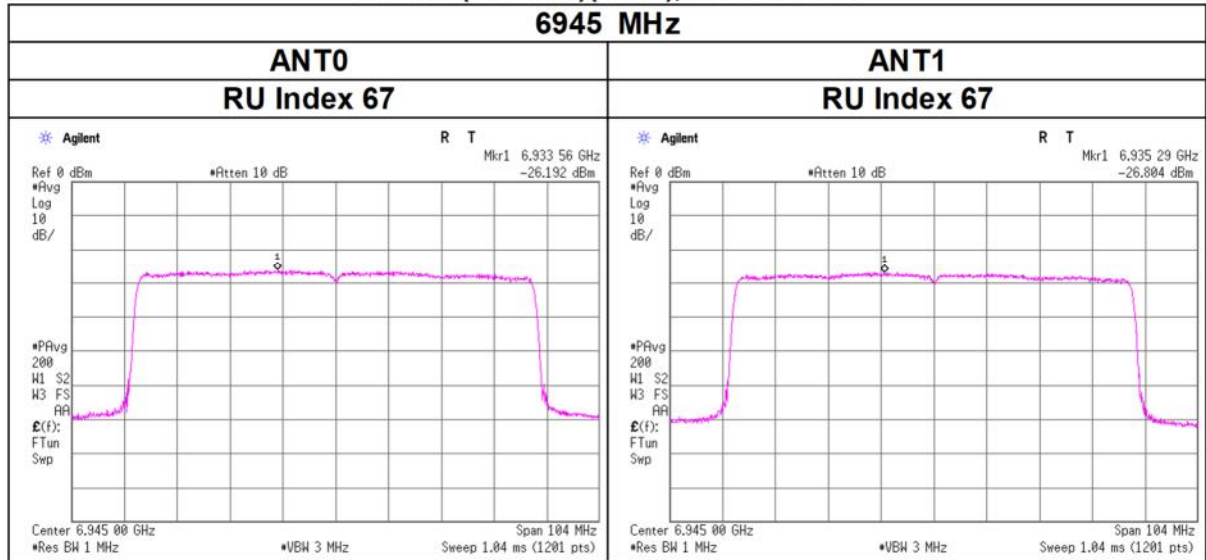


11ax-80(OFDMA)(SDM), 996-tone RU

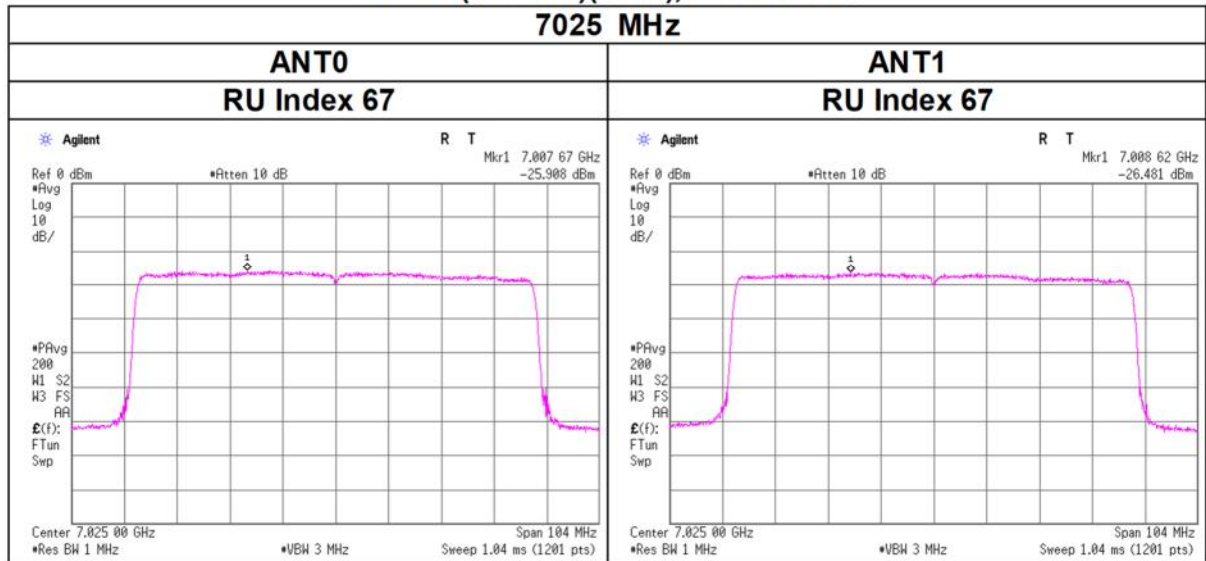


Maximum Power Spectral Density

11ax-80(OFDMA)(SDM), 996-tone RU



11ax-80(OFDMA)(SDM), 996-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room
Date April 26, 2024
Temperature / Humidity 24 deg. C / 33 % RH
Engineer Makoto Hosaka
Mode Tx 11ax-80 (OFDMA) 996-tone RU (CDD)

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
[MHz]		ANT0	ANT1					ANT0	ANT1				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5985	67	0.02	0.03	0.05	-13.11	-	-	0.06	0.08	0.14	-8.48	-1.00	7.48
6225	67	0.02	0.03	0.05	-13.15	-	-	0.07	0.07	0.14	-8.52	-1.00	7.52
6385	67	0.02	0.03	0.05	-12.87	-	-	0.07	0.08	0.15	-8.24	-1.00	7.24
6465	67	0.02	0.03	0.06	-12.54	-	-	0.07	0.09	0.16	-7.91	-1.00	6.91

ANT0								ANT1						
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	PSD Result
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
5985	67	0.07	-29.84	3.27	9.98	4.63	-16.52	-11.89	-29.22	3.30	10.10	4.63	-15.76	-11.13
6225	67	0.07	-29.82	3.34	9.98	4.63	-16.42	-11.79	-29.44	3.36	10.10	4.63	-15.91	-11.28
6385	67	0.07	-29.73	3.39	9.99	4.63	-16.29	-11.66	-29.08	3.41	10.11	4.63	-15.50	-10.87
6465	67	0.07	-29.76	3.41	9.99	4.63	-16.30	-11.67	-28.53	3.43	10.11	4.63	-14.92	-10.29

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor

PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = 10log(Number of transmit antennas / Number of spatial streams)

Number of transmit antennas = 2, Number of spatial streams = 1

ANT0 + ANT1

Applied limit: 15.407, Low Power Indoor Client

Tested Frequency	RU Index	PSD (Cond.)						PSD (e.i.r.p.)					
		Antenna		Sum	Result	Limit	Margin	Antenna		Sum	Result	Limit	Margin
[MHz]		ANT0	ANT1					ANT0	ANT1				
		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
6545	67	0.04	0.03	0.07	-11.79	-	-	0.08	0.07	0.15	-8.17	-1.00	7.17
6625	67	0.03	0.03	0.06	-12.02	-	-	0.08	0.07	0.14	-8.40	-1.00	7.40
6705	67	0.03	0.03	0.07	-11.87	-	-	0.07	0.08	0.15	-8.25	-1.00	7.25
6865	67	0.03	0.03	0.06	-12.34	-	-	0.06	0.07	0.13	-8.72	-1.00	7.72
6945	67	0.03	0.03	0.06	-12.30	-	-	0.07	0.07	0.14	-8.68	-1.00	7.68
7025	67	0.03	0.02	0.06	-12.58	-	-	0.07	0.06	0.13	-8.96	-1.00	7.96

ANT0								ANT1						
Tested Frequency	RU Index	Duty Factor	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	Cable Loss	Atten. Loss	Directional Gain	PSD Result	PSD Reading	PSD Result
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]
6545	67	0.07	-28.03	3.43	9.99	3.62	-14.55	-10.93	-28.72	3.45	10.11	3.62	-15.08	-11.46
6625	67	0.07	-28.37	3.45	9.99	3.62	-14.85	-11.23	-28.88	3.47	10.11	3.62	-15.22	-11.60
6705	67	0.07	-28.67	3.47	9.99	3.62	-15.14	-11.52	-28.32	3.50	10.12	3.62	-14.63	-11.01
6865	67	0.07	-29.47	3.52	9.99	3.62	-15.89	-12.27	-28.60	3.54	10.12	3.62	-14.87	-11.25
6945	67	0.07	-28.86	3.54	9.99	3.62	-15.26	-11.64	-29.12	3.56	10.12	3.62	-15.36	-11.74
7025	67	0.07	-28.73	3.56	9.99	3.62	-15.11	-11.49	-29.90	3.58	10.12	3.62	-16.13	-12.51

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss (including the Cable(s) customer supplied) + Atten. Loss + Duty Factor

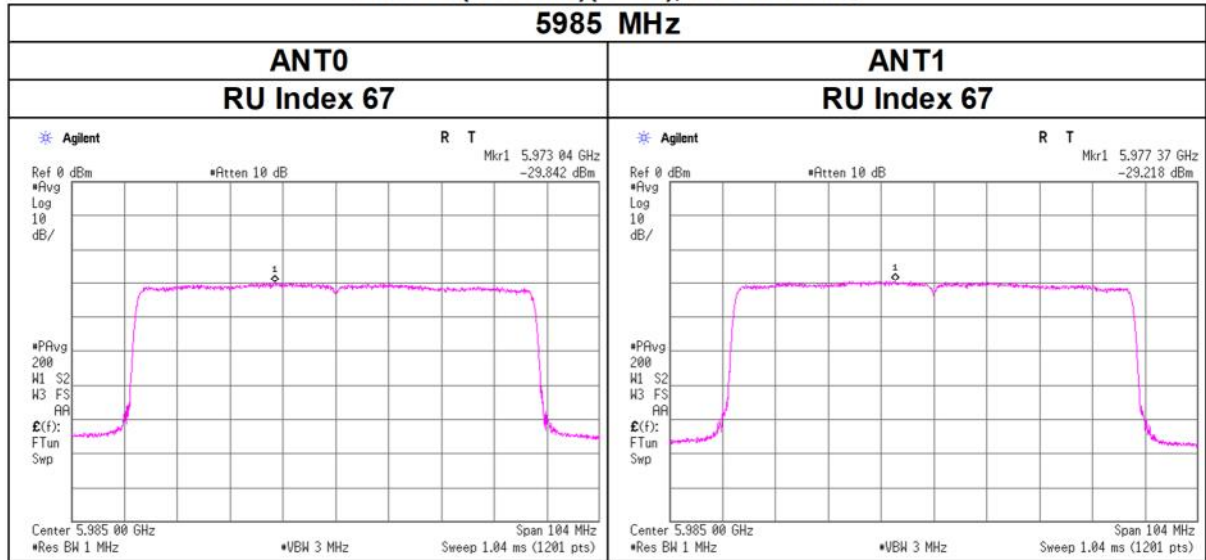
PSD (e.i.r.p.) Result = PSD (Conducted) Result + Directional Gain

Directional Gain = Antenna Gain + Arry Gain, Arry Gain = 10log(Number of transmit antennas / Number of spatial streams)

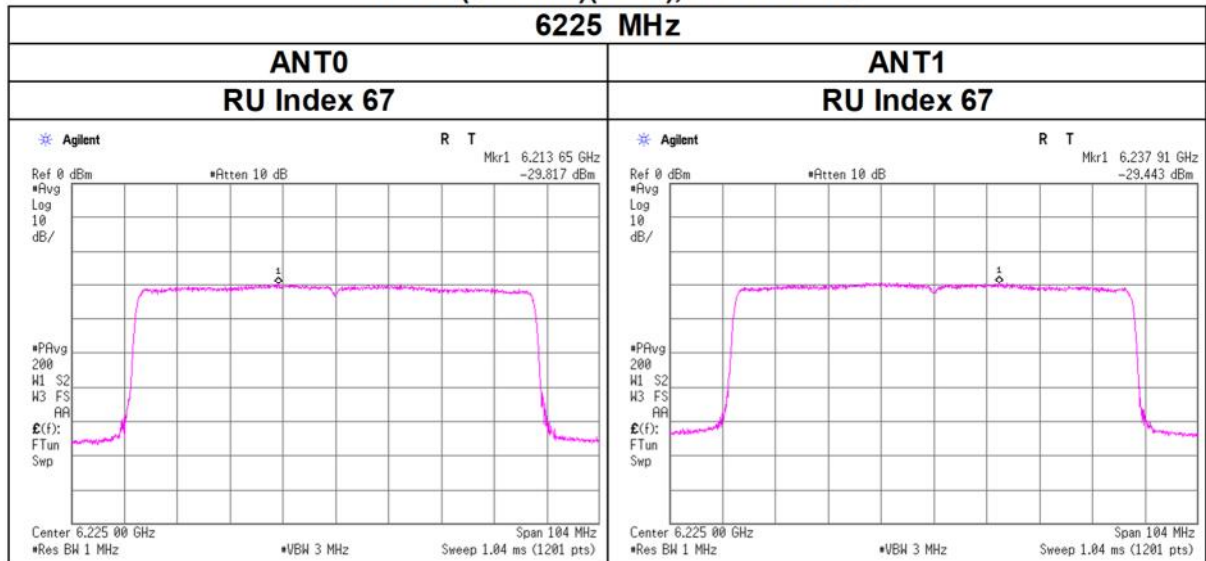
Number of transmit antennas = 2, Number of spatial streams = 1

Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 996-tone RU

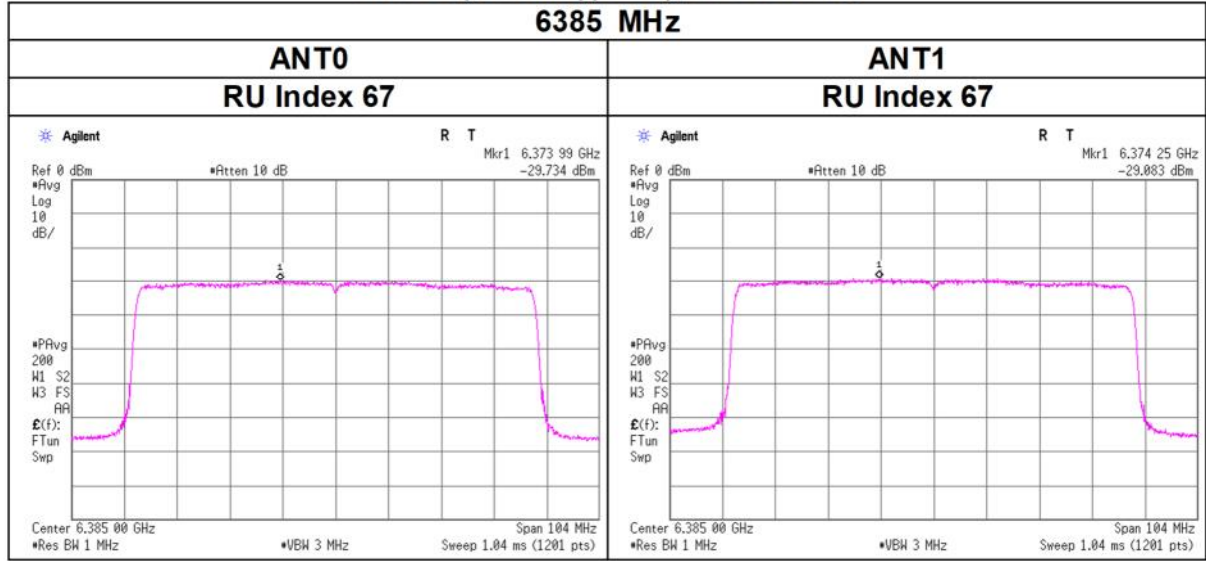


11ax-80(OFDMA)(CDD), 996-tone RU

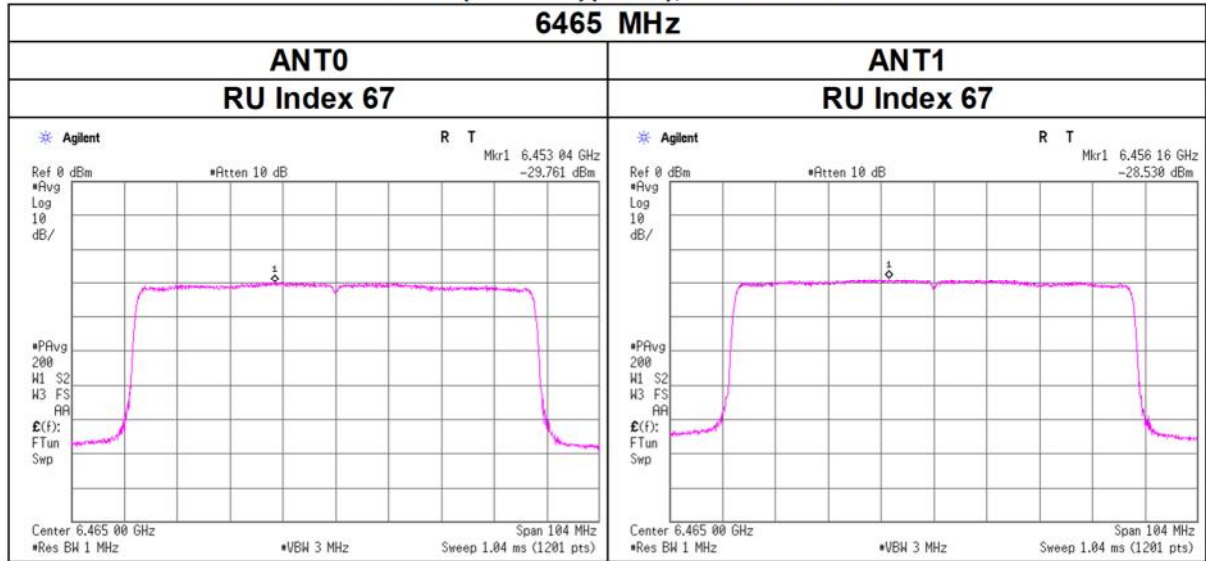


Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 996-tone RU

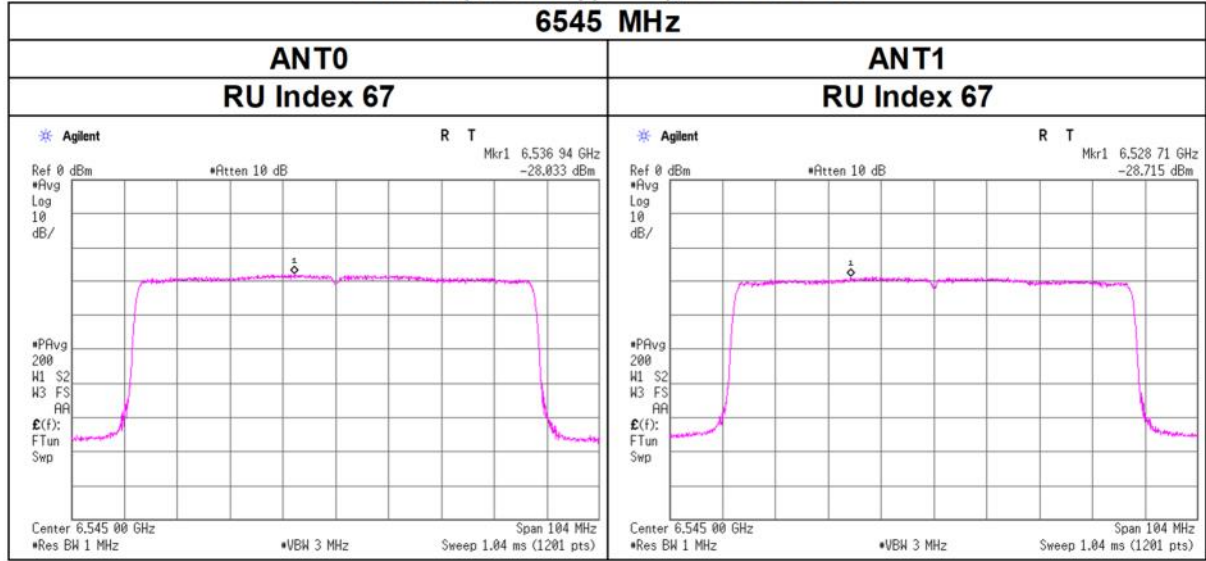


11ax-80(OFDMA)(CDD), 996-tone RU

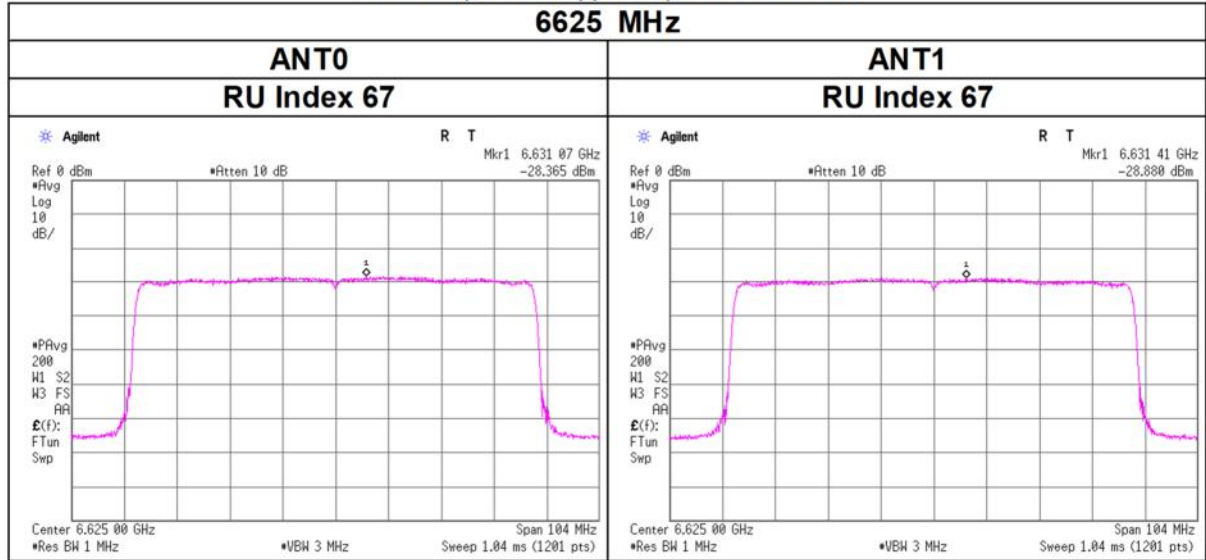


Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 996-tone RU

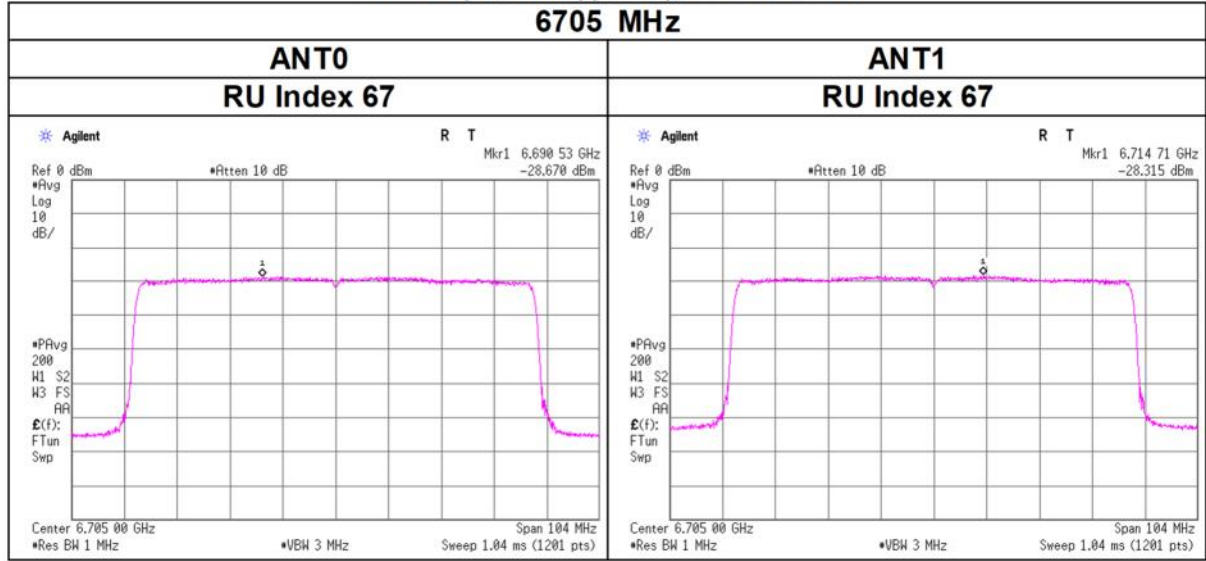


11ax-80(OFDMA)(CDD), 996-tone RU

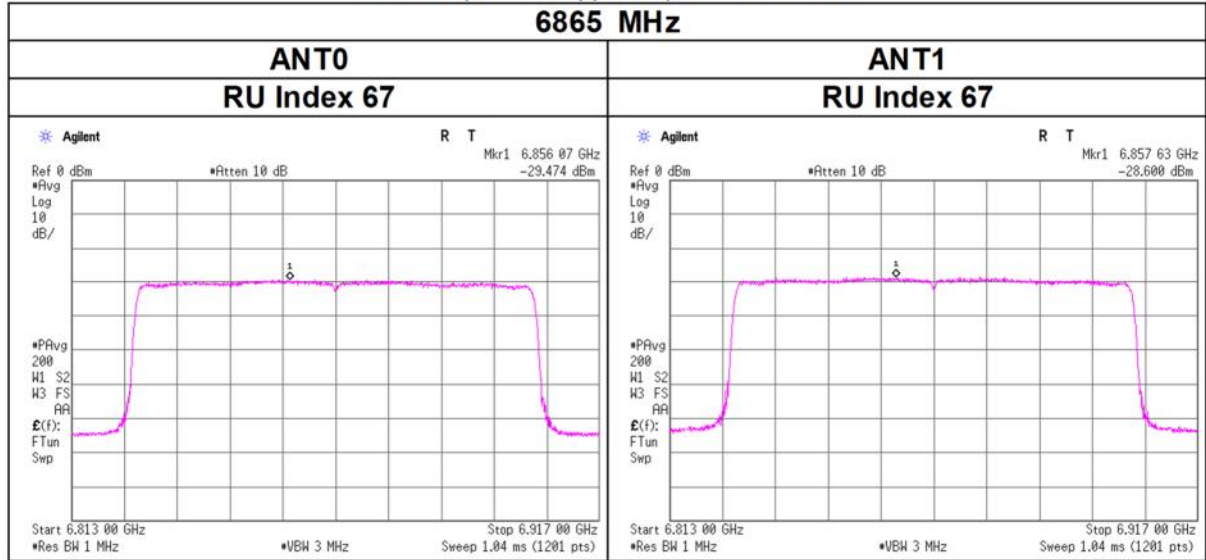


Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 996-tone RU

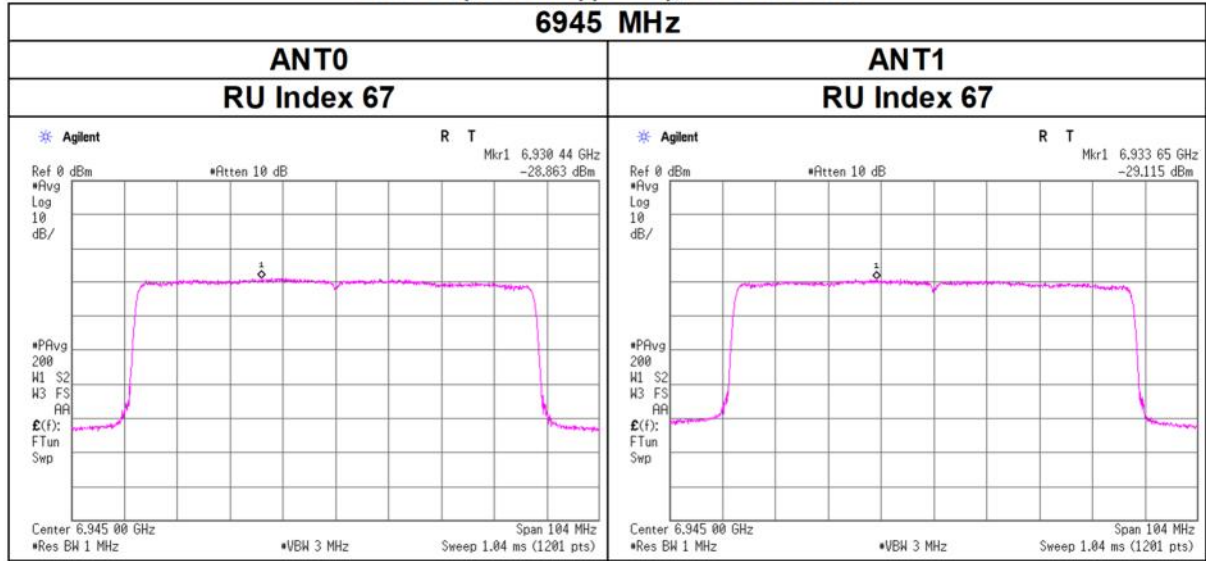


11ax-80(OFDMA)(CDD), 996-tone RU

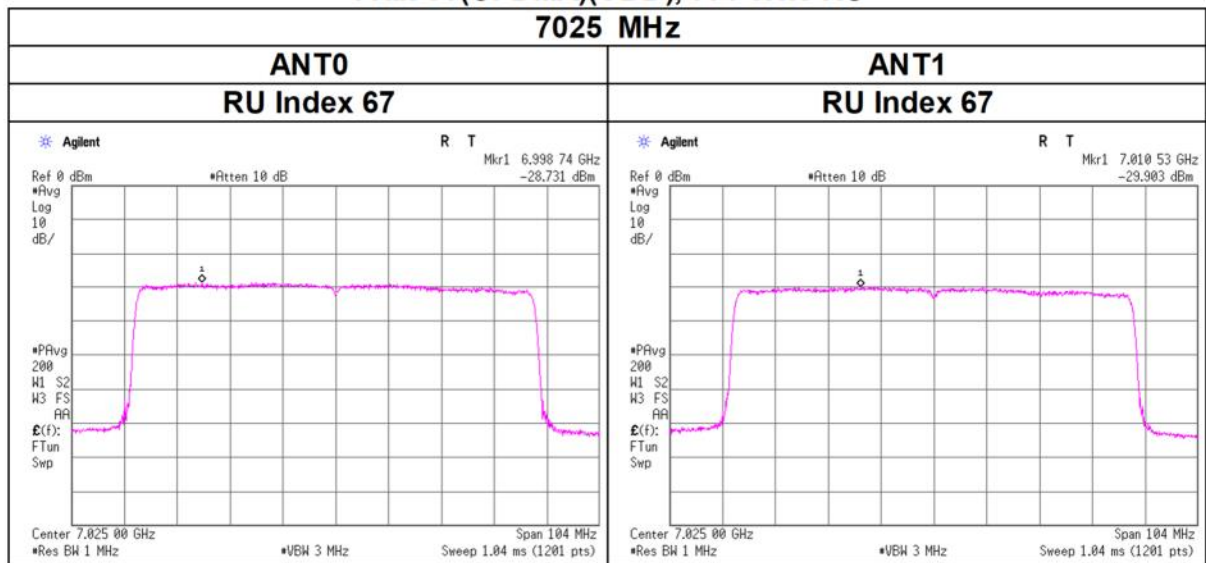


Maximum Power Spectral Density

11ax-80(OFDMA)(CDD), 996-tone RU



11ax-80(OFDMA)(CDD), 996-tone RU



Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-20 (OFDM), 5955 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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	46.37	38.55	10.03	40.18	-9.54	45.23	73.9	28.6	150	0	Floor noise
Hori.	17865.000	PK	44.38	40.31	12.23	37.30	-9.54	50.08	73.9	23.8	150	0	Floor noise
Hori.	23820.000	PK	43.53	40.24	13.39	46.64	-9.54	40.98	73.9	32.9	150	0	Floor noise
Hori.	11910.000	AV	38.39	38.55	10.03	40.18	-9.54	37.25	53.9	16.6	150	0	Floor noise
Hori.	17865.000	AV	35.03	40.31	12.23	37.30	-9.54	40.73	53.9	13.1	150	0	Floor noise
Hori.	23820.000	AV	32.97	40.24	13.39	46.64	-9.54	30.42	53.9	23.4	150	0	Floor noise
Vert.	11910.000	PK	45.61	38.55	10.03	40.18	-9.54	44.47	73.9	29.4	150	0	Floor noise
Vert.	17865.000	PK	42.68	40.31	12.23	37.30	-9.54	48.38	73.9	25.5	150	0	Floor noise
Vert.	23820.000	PK	43.18	40.24	13.39	46.64	-9.54	40.63	73.9	33.2	150	0	Floor noise
Vert.	11910.000	AV	37.38	38.55	10.03	40.18	-9.54	36.24	53.9	17.6	150	0	Floor noise
Vert.	17865.000	AV	34.11	40.31	12.23	37.30	-9.54	39.81	53.9	14.0	150	0	Floor noise
Vert.	23820.000	AV	32.89	40.24	13.39	46.64	-9.54	30.34	53.9	23.5	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	49.81	33.06	17.24	43.38	0.00	2.49	59.22	-36.01	-7.0	29.0	152	237	-
Hori.	29775.000	PK	56.21	43.63	17.66	66.26	0.00	-9.54	41.70	-53.53	-7.0	46.5	228	59	-
Hori.	5925.000	AV	39.89	33.06	17.24	43.38	0.00	2.49	49.30	-45.93	-27.0	18.9	152	237	-
Hori.	29775.000	AV	47.46	43.63	17.66	66.26	0.00	-9.54	32.95	-62.28	-27.0	35.2	228	59	-
Vert.	5925.000	PK	49.83	33.06	17.24	43.38	0.00	2.49	59.24	-35.99	-7.0	28.9	100	135	-
Vert.	29775.000	PK	57.71	43.63	17.66	66.26	0.00	-9.54	43.20	-52.03	-7.0	45.0	151	336	-
Vert.	5925.000	AV	40.37	33.06	17.24	43.38	0.00	2.49	49.78	-45.45	-27.0	18.4	100	135	-
Vert.	29775.000	AV	48.89	43.63	17.66	66.26	0.00	-9.54	34.38	-60.85	-27.0	33.8	151	336	-

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).

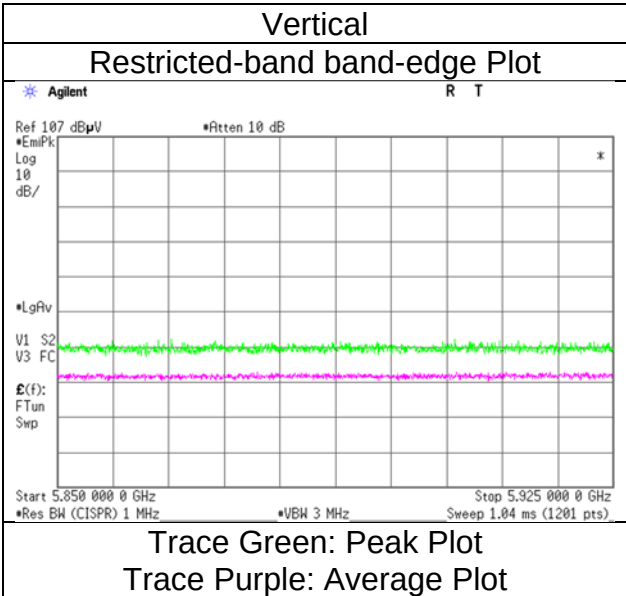
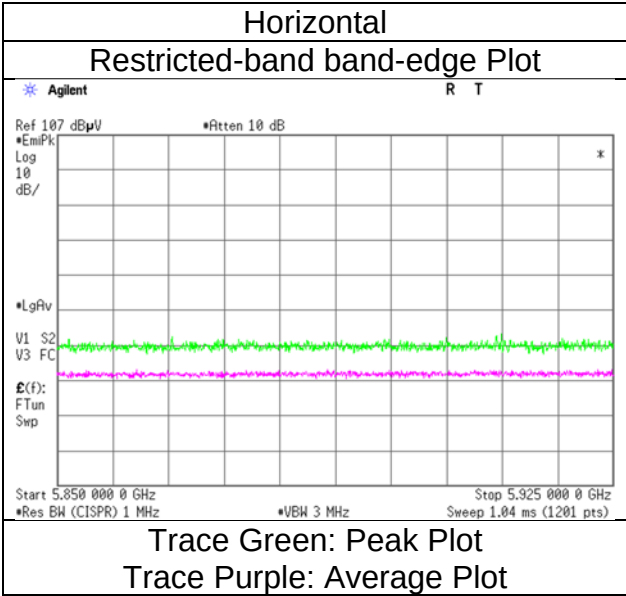
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
July 28, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11ax-20 (OFDM), 5955 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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ax-20 (OFDM), 6195 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12390.000	PK	45.28	38.10	10.13	39.88	-9.54	44.09	73.9	29.8	150	0	Floor noise
Hori.	18585.000	PK	44.22	40.15	11.65	48.37	-9.54	38.11	73.9	35.7	150	0	Floor noise
Hori.	12390.000	AV	35.52	38.10	10.13	39.88	-9.54	34.33	53.9	19.5	150	0	Floor noise
Hori.	18585.000	AV	33.13	40.15	11.65	48.37	-9.54	27.02	53.9	26.8	150	0	Floor noise
Vert.	12390.000	PK	45.63	38.10	10.13	39.88	-9.54	44.44	73.9	29.4	150	0	Floor noise
Vert.	18585.000	PK	43.62	40.15	11.65	48.37	-9.54	37.51	73.9	36.3	150	0	Floor noise
Vert.	12390.000	AV	34.14	38.10	10.13	39.88	-9.54	32.95	53.9	20.9	150	0	Floor noise
Vert.	18585.000	AV	32.97	40.15	11.65	48.37	-9.54	26.86	53.9	27.0	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	24780.000	PK	44.37	40.37	13.61	46.89	0.00	-9.54	41.92	-53.31	-7.0	46.3	150	0	Floor noise
Hori.	30975.000	PK	53.06	43.80	18.20	64.83	0.00	-9.54	40.69	-54.54	-7.0	47.5	201	61	-
Hori.	24780.000	AV	33.64	40.37	13.61	46.89	0.00	-9.54	31.19	-64.04	-27.0	37.0	150	0	Floor noise
Hori.	30975.000	AV	44.86	43.80	18.20	64.83	0.00	-9.54	32.49	-62.74	-27.0	35.7	201	61	-
Vert.	24780.000	PK	44.61	40.37	13.61	46.89	0.00	-9.54	42.16	-53.07	-7.0	46.0	150	0	Floor noise
Vert.	30975.000	PK	56.43	43.80	18.20	64.83	0.00	-9.54	44.06	-51.17	-7.0	44.1	194	89	-
Vert.	24780.000	AV	33.69	40.37	13.61	46.89	0.00	-9.54	31.24	-63.99	-27.0	36.9	150	0	Floor noise
Vert.	30975.000	AV	47.94	43.80	18.20	64.83	0.00	-9.54	35.57	-59.66	-27.0	32.6	194	89	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6415 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19245.000	PK	44.14	40.30	11.91	47.63	-9.54	39.18	73.9	34.7	150	0	Floor noise
Hori.	19245.000	AV	33.93	40.30	11.91	47.63	-9.54	28.97	53.9	24.9	150	0	Floor noise
Vert.	19245.000	PK	43.61	40.30	11.91	47.63	-9.54	38.65	73.9	35.2	150	0	Floor noise
Vert.	19245.000	AV	33.90	40.30	11.91	47.63	-9.54	28.94	53.9	24.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	12830.000	PK	44.82	38.45	10.31	39.49	0.00	-9.54	44.55	-50.68	-7.0	43.6	150	0	Floor noise
Hori.	25660.000	PK	44.42	40.73	13.99	47.06	0.00	-9.54	42.54	-52.69	-7.0	45.6	150	0	Floor noise
Hori.	32075.000	PK	52.35	43.68	18.41	63.67	0.00	-9.54	41.23	-54.00	-7.0	47.0	228	61	-
Hori.	12830.000	AV	35.39	38.45	10.31	39.49	0.00	-9.54	35.12	-60.11	-27.0	33.1	150	0	Floor noise
Hori.	25660.000	AV	35.01	40.73	13.99	47.06	0.00	-9.54	33.13	-62.10	-27.0	35.1	150	0	Floor noise
Hori.	32075.000	AV	43.79	43.68	18.41	63.67	0.00	-9.54	32.67	-62.56	-27.0	35.5	228	61	-
Vert.	12830.000	PK	45.33	38.45	10.31	39.49	0.00	-9.54	45.06	-50.17	-7.0	43.1	150	0	Floor noise
Vert.	25660.000	PK	44.26	40.73	13.99	47.06	0.00	-9.54	42.38	-52.85	-7.0	45.8	150	0	Floor noise
Vert.	32075.000	PK	54.18	43.68	18.41	63.67	0.00	-9.54	43.06	-52.17	-7.0	45.1	159	327	-
Vert.	12830.000	AV	36.16	38.45	10.31	39.49	0.00	-9.54	35.89	-59.34	-27.0	32.3	150	0	Floor noise
Vert.	25660.000	AV	35.50	40.73	13.99	47.06	0.00	-9.54	33.62	-61.61	-27.0	34.6	150	0	Floor noise
Vert.	32075.000	AV	45.66	43.68	18.41	63.67	0.00	-9.54	34.54	-60.69	-27.0	33.6	159	327	-

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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ax-20 (OFDM), 6435 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19305.000	PK	43.47	40.29	11.93	47.50	-9.54	38.65	73.9	35.2	150	0	Floor noise
Hori.	19305.000	AV	33.64	40.29	11.93	47.50	-9.54	28.82	53.9	25.0	150	0	Floor noise
Vert.	19305.000	PK	43.12	40.29	11.93	47.50	-9.54	38.30	73.9	35.6	150	0	Floor noise
Vert.	19305.000	AV	33.78	40.29	11.93	47.50	-9.54	28.96	53.9	24.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	12870.000	PK	44.54	38.47	10.33	39.45	0.00	-9.54	44.35	-50.88	-7.0	43.8	150	0	Floor noise
Hori.	25740.000	PK	43.14	40.70	13.99	47.04	0.00	-9.54	41.25	-53.98	-7.0	46.9	150	0	Floor noise
Hori.	32175.000	PK	52.89	43.66	18.47	63.75	0.00	-9.54	41.73	-53.50	-7.0	46.5	220	61	-
Hori.	12870.000	AV	34.88	38.47	10.33	39.45	0.00	-9.54	34.69	-60.54	-27.0	33.5	150	0	Floor noise
Hori.	25740.000	AV	34.58	40.70	13.99	47.04	0.00	-9.54	32.69	-62.54	-27.0	35.5	150	0	Floor noise
Hori.	32175.000	AV	43.36	43.66	18.47	63.75	0.00	-9.54	32.20	-63.03	-27.0	36.0	220	61	-
Vert.	12870.000	PK	45.86	38.47	10.33	39.45	0.00	-9.54	45.67	-49.56	-7.0	42.5	150	0	Floor noise
Vert.	25740.000	PK	44.44	40.70	13.99	47.04	0.00	-9.54	42.55	-52.68	-7.0	45.6	150	0	Floor noise
Vert.	32175.000	PK	55.06	43.66	18.47	63.75	0.00	-9.54	43.90	-51.33	-7.0	44.3	158	329	-
Vert.	12870.000	AV	35.79	38.47	10.33	39.45	0.00	-9.54	35.60	-59.63	-27.0	32.6	150	0	Floor noise
Vert.	25740.000	AV	34.13	40.70	13.99	47.04	0.00	-9.54	32.24	-62.99	-27.0	35.9	150	0	Floor noise
Vert.	32175.000	AV	45.30	43.66	18.47	63.75	0.00	-9.54	34.14	-61.09	-27.0	34.0	158	329	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6475 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19425.000	PK	43.29	40.32	11.98	47.25	-9.54	38.80	73.9	35.1	150	0	Floor noise
Hori.	19425.000	AV	33.25	40.32	11.98	47.25	-9.54	28.76	53.9	25.1	150	0	Floor noise
Vert.	19425.000	PK	42.49	40.32	11.98	47.25	-9.54	38.00	73.9	35.9	150	0	Floor noise
Vert.	19425.000	AV	33.22	40.32	11.98	47.25	-9.54	28.73	53.9	25.1	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	12950.000	PK	45.38	38.53	10.36	39.37	0.00	-9.54	45.36	-49.87	-7.0	42.8	150	0	Floor noise
Hori.	25900.000	PK	44.52	40.64	13.98	47.00	0.00	-9.54	42.60	-52.63	-7.0	45.6	150	0	Floor noise
Hori.	32375.000	PK	51.96	43.70	18.60	63.92	0.00	-9.54	40.80	-54.43	-7.0	47.4	218	61	-
Hori.	12950.000	AV	35.49	38.53	10.36	39.37	0.00	-9.54	35.47	-59.76	-27.0	32.7	150	0	Floor noise
Hori.	25900.000	AV	33.39	40.64	13.98	47.00	0.00	-9.54	31.47	-63.76	-27.0	36.7	150	0	Floor noise
Hori.	32375.000	AV	43.25	43.70	18.60	63.92	0.00	-9.54	32.09	-63.14	-27.0	36.1	218	61	-
Vert.	12950.000	PK	44.06	38.53	10.36	39.37	0.00	-9.54	44.04	-51.19	-7.0	44.1	150	0	Floor noise
Vert.	25900.000	PK	43.77	40.64	13.98	47.00	0.00	-9.54	41.85	-53.38	-7.0	46.3	150	0	Floor noise
Vert.	32375.000	PK	54.79	43.70	18.60	63.92	0.00	-9.54	43.63	-51.60	-7.0	44.6	158	328	-
Vert.	12950.000	AV	35.13	38.53	10.36	39.37	0.00	-9.54	35.11	-60.12	-27.0	33.1	150	0	Floor noise
Vert.	25900.000	AV	34.12	40.64	13.98	47.00	0.00	-9.54	32.20	-63.03	-27.0	36.0	150	0	Floor noise
Vert.	32375.000	AV	45.24	43.70	18.60	63.92	0.00	-9.54	34.08	-61.15	-27.0	34.1	158	328	-

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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6515 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19545.000	PK	41.87	40.32	12.03	47.15	-9.54	37.53	73.9	36.3	150	0	Floor noise
Hori.	19545.000	AV	31.27	40.32	12.03	47.15	-9.54	26.93	53.9	26.9	150	0	Floor noise
Vert.	19545.000	PK	41.83	40.32	12.03	47.15	-9.54	37.49	73.9	36.4	150	0	Floor noise
Vert.	19545.000	AV	31.35	40.32	12.03	47.15	-9.54	27.01	53.9	26.8	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13030.000	PK	45.19	38.60	10.39	39.29	0.00	-9.54	45.35	-49.88	-7.0	42.8	150	0	Floor noise
Hori.	26060.000	PK	43.37	40.55	13.99	46.95	0.00	-9.54	41.42	-53.81	-7.0	46.8	150	0	Floor noise
Hori.	32575.000	PK	51.96	43.72	18.69	63.98	0.00	-9.54	40.85	-54.38	-7.0	47.3	221	62	-
Hori.	13030.000	AV	35.65	38.60	10.39	39.29	0.00	-9.54	35.81	-59.42	-27.0	32.4	150	0	Floor noise
Hori.	26060.000	AV	33.22	40.55	13.99	46.95	0.00	-9.54	31.27	-63.96	-27.0	36.9	150	0	Floor noise
Hori.	32575.000	AV	42.99	43.72	18.69	63.98	0.00	-9.54	31.88	-63.35	-27.0	36.3	221	62	-
Vert.	13030.000	PK	44.77	38.60	10.39	39.29	0.00	-9.54	44.93	-50.30	-7.0	43.3	150	0	Floor noise
Vert.	26060.000	PK	44.53	40.55	13.99	46.95	0.00	-9.54	42.58	-52.65	-7.0	45.6	150	0	Floor noise
Vert.	32575.000	PK	54.06	43.72	18.69	63.98	0.00	-9.54	42.95	-52.28	-7.0	45.2	156	327	-
Vert.	13030.000	AV	34.82	38.60	10.39	39.29	0.00	-9.54	34.98	-60.25	-27.0	33.2	150	0	Floor noise
Vert.	26060.000	AV	32.95	40.55	13.99	46.95	0.00	-9.54	31.00	-64.23	-27.0	37.2	150	0	Floor noise
Vert.	32575.000	AV	44.97	43.72	18.69	63.98	0.00	-9.54	33.86	-61.37	-27.0	34.3	156	327	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ax-20 (OFDM), 6535 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19605.000	PK	41.74	40.29	12.05	47.21	-9.54	37.33	73.9	36.5	150	0	Floor noise
Hori.	19605.000	AV	31.21	40.29	12.05	47.21	-9.54	26.80	53.9	27.1	150	0	Floor noise
Vert.	19605.000	PK	42.68	40.29	12.05	47.21	-9.54	38.27	73.9	35.6	150	0	Floor noise
Vert.	19605.000	AV	31.14	40.29	12.05	47.21	-9.54	26.73	53.9	27.1	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13070.000	PK	44.38	38.64	10.40	39.26	0.00	-9.54	44.62	-50.61	-7.0	43.6	150	0	Floor noise
Hori.	26140.000	PK	44.13	40.51	14.01	46.93	0.00	-9.54	42.18	-53.05	-7.0	46.0	150	0	Floor noise
Hori.	32675.000	PK	51.59	43.72	18.69	63.93	0.00	-9.54	40.53	-54.70	-7.0	47.7	209	68	-
Hori.	13070.000	AV	35.54	38.64	10.40	39.26	0.00	-9.54	35.78	-59.45	-27.0	32.4	150	0	Floor noise
Hori.	26140.000	AV	33.37	40.51	14.01	46.93	0.00	-9.54	31.42	-63.81	-27.0	36.8	150	0	Floor noise
Hori.	32675.000	AV	42.79	43.72	18.69	63.93	0.00	-9.54	31.73	-63.50	-27.0	36.5	209	68	-
Vert.	13070.000	PK	44.77	38.64	10.40	39.26	0.00	-9.54	45.01	-50.22	-7.0	43.2	150	0	Floor noise
Vert.	26140.000	PK	43.75	40.51	14.01	46.93	0.00	-9.54	41.80	-53.43	-7.0	46.4	150	0	Floor noise
Vert.	32675.000	PK	53.84	43.72	18.69	63.93	0.00	-9.54	42.78	-52.45	-7.0	45.4	100	0	-
Vert.	13070.000	AV	35.43	38.64	10.40	39.26	0.00	-9.54	35.67	-59.56	-27.0	32.5	150	0	Floor noise
Vert.	26140.000	AV	33.70	40.51	14.01	46.93	0.00	-9.54	31.75	-63.48	-27.0	36.4	150	0	Floor noise
Vert.	32675.000	AV	44.86	43.72	18.69	63.93	0.00	-9.54	33.80	-61.43	-27.0	34.4	100	0	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6695 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13390.000	PK	46.31	38.98	10.51	38.97	-9.54	47.29	73.9	26.6	150	0	Floor noise
Hori.	20085.000	PK	42.89	40.19	12.21	47.45	-9.54	38.30	73.9	35.6	150	0	Floor noise
Hori.	13390.000	AV	37.28	38.98	10.51	38.97	-9.54	38.26	53.9	15.6	150	0	Floor noise
Hori.	20085.000	AV	33.81	40.19	12.21	47.45	-9.54	29.22	53.9	24.6	150	0	Floor noise
Vert.	13390.000	PK	46.18	38.98	10.51	38.97	-9.54	47.16	73.9	26.7	150	0	Floor noise
Vert.	20085.000	PK	43.23	40.19	12.21	47.45	-9.54	38.64	73.9	35.2	150	0	Floor noise
Vert.	13390.000	AV	37.35	38.98	10.51	38.97	-9.54	38.33	53.9	15.5	150	0	Floor noise
Vert.	20085.000	AV	32.59	40.19	12.21	47.45	-9.54	28.00	53.9	25.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	26780.000	PK	58.14	43.22	16.57	67.04	0.00	-9.54	41.35	-53.88	-7.0	46.8	153	125	-
Hori.	33475.000	PK	52.80	43.62	18.85	65.19	0.00	-9.54	40.54	-54.69	-7.0	47.6	203	88	-
Hori.	26780.000	AV	48.92	43.22	16.57	67.04	0.00	-9.54	32.13	-63.10	-27.0	36.1	153	125	-
Hori.	33475.000	AV	43.29	43.62	18.85	65.19	0.00	-9.54	31.03	-64.20	-27.0	37.2	203	88	-
Vert.	26780.000	PK	59.76	43.22	16.57	67.04	0.00	-9.54	42.97	-52.26	-7.0	45.2	159	318	-
Vert.	33475.000	PK	54.35	43.62	18.85	65.19	0.00	-9.54	42.09	-53.14	-7.0	46.1	218	319	-
Vert.	26780.000	AV	50.96	43.22	16.57	67.04	0.00	-9.54	34.17	-61.06	-27.0	34.0	159	318	-
Vert.	33475.000	AV	44.37	43.62	18.85	65.19	0.00	-9.54	32.11	-63.12	-27.0	36.1	218	319	-

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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6855 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20565.000	PK	44.42	40.11	12.30	46.69	-9.54	40.60	73.9	33.3	150	0	Floor noise
Hori.	20565.000	AV	33.47	40.11	12.30	46.69	-9.54	29.65	53.9	24.2	150	0	Floor noise
Vert.	20565.000	PK	44.57	40.11	12.30	46.69	-9.54	40.75	73.9	33.1	150	0	Floor noise
Vert.	20565.000	AV	33.59	40.11	12.30	46.69	-9.54	29.77	53.9	24.1	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995 \text{ m} / 3.0 \text{ m}) = 2.49 \text{ dB}$

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.	13710.000	PK	44.39	39.07	10.61	38.52	0.00	-9.54	46.01	-49.22	-7.0	42.2	150	0	Floor noise
Hori.	27420.000	PK	59.43	43.47	16.85	68.69	0.00	-9.54	41.52	-53.71	-7.0	46.7	151	146	-
Hori.	34275.000	PK	52.44	43.54	19.10	65.59	0.00	-9.54	39.95	-55.28	-7.0	48.2	187	45	-
Hori.	13710.000	AV	34.44	39.07	10.61	38.52	0.00	-9.54	36.06	-59.17	-27.0	32.1	150	0	Floor noise
Hori.	27420.000	AV	49.94	43.47	16.85	68.69	0.00	-9.54	32.03	-63.20	-27.0	36.2	151	146	-
Hori.	34275.000	AV	43.76	43.54	19.10	65.59	0.00	-9.54	31.27	-63.96	-27.0	36.9	187	45	-
Vert.	13710.000	PK	45.11	39.07	10.61	38.52	0.00	-9.54	46.73	-48.50	-7.0	41.5	150	0	Floor noise
Vert.	27420.000	PK	60.64	43.47	16.85	68.69	0.00	-9.54	42.73	-52.50	-7.0	45.5	158	319	-
Vert.	34275.000	PK	53.88	43.54	19.10	65.59	0.00	-9.54	41.39	-53.84	-7.0	46.8	157	56	-
Vert.	13710.000	AV	35.39	39.07	10.61	38.52	0.00	-9.54	37.01	-58.22	-27.0	31.2	150	0	Floor noise
Vert.	27420.000	AV	50.37	43.47	16.85	68.69	0.00	-9.54	32.46	-62.77	-27.0	35.7	158	319	-
Vert.	34275.000	AV	44.47	43.54	19.10	65.59	0.00	-9.54	31.98	-63.25	-27.0	36.2	157	56	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995 \text{ m} / 3.0 \text{ m}) = 2.49 \text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6875 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20625.000	PK	44.88	40.12	12.32	46.74	-9.54	41.04	73.9	32.8	150	0	Floor noise
Hori.	20625.000	AV	33.86	40.12	12.32	46.74	-9.54	30.02	53.9	23.8	150	0	Floor noise
Vert.	20625.000	PK	45.19	40.12	12.32	46.74	-9.54	41.35	73.9	32.5	150	0	Floor noise
Vert.	20625.000	AV	33.92	40.12	12.32	46.74	-9.54	30.08	53.9	23.8	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13750.000	PK	44.82	39.05	10.62	38.45	0.00	-9.54	46.50	-48.73	-7.0	41.7	150	0	Floor noise
Hori.	27500.000	PK	57.90	43.52	16.89	69.05	0.00	-9.54	39.72	-55.51	-7.0	48.5	147	146	-
Hori.	34375.000	PK	52.17	43.52	19.13	65.81	0.00	-9.54	39.47	-55.76	-7.0	48.7	193	112	-
Hori.	13750.000	AV	35.41	39.05	10.62	38.45	0.00	-9.54	37.09	-58.14	-27.0	31.1	150	0	Floor noise
Hori.	27500.000	AV	49.60	43.52	16.89	69.05	0.00	-9.54	31.42	-63.81	-27.0	36.8	147	146	-
Hori.	34375.000	AV	43.35	43.52	19.13	65.81	0.00	-9.54	30.65	-64.58	-27.0	37.5	193	112	-
Vert.	13750.000	PK	45.57	39.05	10.62	38.45	0.00	-9.54	47.25	-47.98	-7.0	40.9	150	0	Floor noise
Vert.	27500.000	PK	60.23	43.52	16.89	69.05	0.00	-9.54	42.05	-53.18	-7.0	46.1	158	320	-
Vert.	34375.000	PK	54.86	43.52	19.13	65.81	0.00	-9.54	42.16	-53.07	-7.0	46.0	158	56	-
Vert.	13750.000	AV	34.99	39.05	10.62	38.45	0.00	-9.54	36.67	-58.56	-27.0	31.5	150	0	Floor noise
Vert.	27500.000	AV	51.47	43.52	16.89	69.05	0.00	-9.54	33.29	-61.94	-27.0	34.9	158	320	-
Vert.	34375.000	AV	44.81	43.52	19.13	65.81	0.00	-9.54	32.11	-63.12	-27.0	36.1	158	56	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-20 (OFDM), 6895 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	20685.000	PK	44.43	40.12	12.34	46.78	-9.54	40.57	73.9	33.3	150	0	Floor noise
Hori.	20685.000	AV	34.19	40.12	12.34	46.78	-9.54	30.33	53.9	23.5	150	0	Floor noise
Vert.	20685.000	PK	44.63	40.12	12.34	46.78	-9.54	40.77	73.9	33.1	150	0	Floor noise
Vert.	20685.000	AV	34.09	40.12	12.34	46.78	-9.54	30.23	53.9	23.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	13790.000	PK	45.38	39.05	10.61	38.38	0.00	-9.54	47.12	-48.11	-7.0	41.1	150	0	Floor noise
Hori.	27580.000	PK	58.48	43.54	16.92	69.04	0.00	-9.54	40.36	-54.87	-7.0	47.8	147	145	-
Hori.	34475.000	PK	54.17	43.50	19.16	66.03	0.00	-9.54	41.26	-53.97	-7.0	46.9	189	42	-
Hori.	13790.000	AV	34.44	39.05	10.61	38.38	0.00	-9.54	36.18	-59.05	-27.0	32.0	150	0	Floor noise
Hori.	27580.000	AV	50.07	43.54	16.92	69.04	0.00	-9.54	31.95	-63.28	-27.0	36.2	147	145	-
Hori.	34475.000	AV	44.33	43.50	19.16	66.03	0.00	-9.54	31.42	-63.81	-27.0	36.8	189	42	-
Vert.	13790.000	PK	44.81	39.05	10.61	38.38	0.00	-9.54	46.55	-48.68	-7.0	41.6	150	0	Floor noise
Vert.	27580.000	PK	61.16	43.54	16.92	69.04	0.00	-9.54	43.04	-52.19	-7.0	45.1	105	274	-
Vert.	34475.000	PK	55.12	43.50	19.16	66.03	0.00	-9.54	42.21	-53.02	-7.0	46.0	159	56	-
Vert.	13790.000	AV	35.89	39.05	10.61	38.38	0.00	-9.54	37.63	-57.60	-27.0	30.6	150	0	Floor noise
Vert.	27580.000	AV	53.41	43.54	16.92	69.04	0.00	-9.54	35.29	-59.94	-27.0	32.9	105	274	-
Vert.	34475.000	AV	45.35	43.50	19.16	66.03	0.00	-9.54	32.44	-62.79	-27.0	35.7	159	56	-

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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 6995 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20985.000	PK	43.18	40.13	12.44	47.01	-9.54	39.20	73.9	34.7	150	0	Floor noise
Hori.	20985.000	AV	34.58	40.13	12.44	47.01	-9.54	30.60	53.9	23.3	150	0	Floor noise
Vert.	20985.000	PK	43.43	40.13	12.44	47.01	-9.54	39.45	73.9	34.4	150	0	Floor noise
Vert.	20985.000	AV	34.12	40.13	12.44	47.01	-9.54	30.14	53.9	23.7	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13990.000	PK	45.57	38.93	10.68	38.05	0.00	-9.54	47.59	-47.64	-7.0	40.6	150	0	Floor noise
Hori.	27980.000	PK	58.33	43.65	17.09	69.01	0.00	-9.54	40.52	-54.71	-7.0	47.7	161	141	-
Hori.	34975.000	PK	53.78	43.41	19.34	66.51	0.00	-9.54	40.48	-54.75	-7.0	47.7	210	88	-
Hori.	13990.000	AV	35.72	38.93	10.68	38.05	0.00	-9.54	37.74	-57.49	-27.0	30.4	150	0	Floor noise
Hori.	27980.000	AV	49.96	43.65	17.09	69.01	0.00	-9.54	32.15	-63.08	-27.0	36.0	161	141	-
Hori.	34975.000	AV	44.14	43.41	19.34	66.51	0.00	-9.54	30.84	-64.39	-27.0	37.3	210	88	-
Vert.	13990.000	PK	45.69	38.93	10.68	38.05	0.00	-9.54	47.71	-47.52	-7.0	40.5	150	0	Floor noise
Vert.	27980.000	PK	60.56	43.65	17.09	69.01	0.00	-9.54	42.75	-52.48	-7.0	45.4	158	329	-
Vert.	34975.000	PK	56.18	43.41	19.34	66.51	0.00	-9.54	42.88	-52.35	-7.0	45.3	158	59	-
Vert.	13990.000	AV	36.70	38.93	10.68	38.05	0.00	-9.54	38.72	-56.51	-27.0	29.5	150	0	Floor noise
Vert.	27980.000	AV	51.02	43.65	17.09	69.01	0.00	-9.54	33.21	-62.02	-27.0	35.0	158	329	-
Vert.	34975.000	AV	46.81	43.41	19.34	66.51	0.00	-9.54	33.51	-61.72	-27.0	34.7	158	59	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-20 (OFDM), 7095 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	21285.000	PK	44.57	40.19	12.55	47.12	-9.54	40.65	73.9	33.2	150	0	Floor noise
Hori.	21285.000	AV	34.69	40.19	12.55	47.12	-9.54	30.77	53.9	23.1	150	0	Floor noise
Vert.	21285.000	PK	44.00	40.19	12.55	47.12	-9.54	40.08	73.9	33.8	150	0	Floor noise
Vert.	21285.000	AV	34.89	40.19	12.55	47.12	-9.54	30.97	53.9	22.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	7125.000	PK	50.13	37.00	17.92	43.29	0.00	2.49	64.25	-30.98	-7.0	23.9	280	54	-
Hori.	14190.000	PK	45.53	38.93	10.79	37.95	0.00	-9.54	47.76	-47.47	-7.0	40.4	150	0	Floor noise
Hori.	28380.000	PK	57.63	43.70	17.28	67.89	0.00	-9.54	41.18	-54.05	-7.0	47.0	161	4	-
Hori.	35475.000	PK	55.12	43.42	19.56	67.92	0.00	-9.54	40.64	-54.59	-7.0	47.5	202	147	-
Hori.	7125.000	AV	40.56	37.00	17.92	43.29	0.00	2.49	54.68	-40.55	-27.0	13.5	280	54	-
Hori.	14190.000	AV	36.26	38.93	10.79	37.95	0.00	-9.54	38.49	-56.74	-27.0	29.7	150	0	Floor noise
Hori.	28380.000	AV	49.30	43.70	17.28	67.89	0.00	-9.54	32.85	-62.38	-27.0	35.3	161	4	-
Hori.	35475.000	AV	45.21	43.42	19.56	67.92	0.00	-9.54	30.73	-64.50	-27.0	37.5	202	147	-
Vert.	7125.000	PK	50.24	37.00	17.92	43.29	0.00	2.49	64.36	-30.87	-7.0	23.8	151	67	-
Vert.	14190.000	PK	47.12	38.93	10.79	37.95	0.00	-9.54	49.35	-45.88	-7.0	38.8	150	0	Floor noise
Vert.	28380.000	PK	60.69	43.70	17.28	67.89	0.00	-9.54	44.24	-50.99	-7.0	43.9	160	231	-
Vert.	35475.000	PK	57.24	43.42	19.56	67.92	0.00	-9.54	42.76	-52.47	-7.0	45.4	158	59	-
Vert.	7125.000	AV	40.31	37.00	17.92	43.29	0.00	2.49	54.43	-40.80	-27.0	13.8	151	67	-
Vert.	14190.000	AV	35.94	38.93	10.79	37.95	0.00	-9.54	38.17	-57.06	-27.0	30.0	150	0	Floor noise
Vert.	28380.000	AV	52.23	43.70	17.28	67.89	0.00	-9.54	35.78	-59.45	-27.0	32.4	160	231	-
Vert.	35475.000	AV	47.12	43.42	19.56	67.92	0.00	-9.54	32.64	-62.59	-27.0	35.5	158	59	-

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).

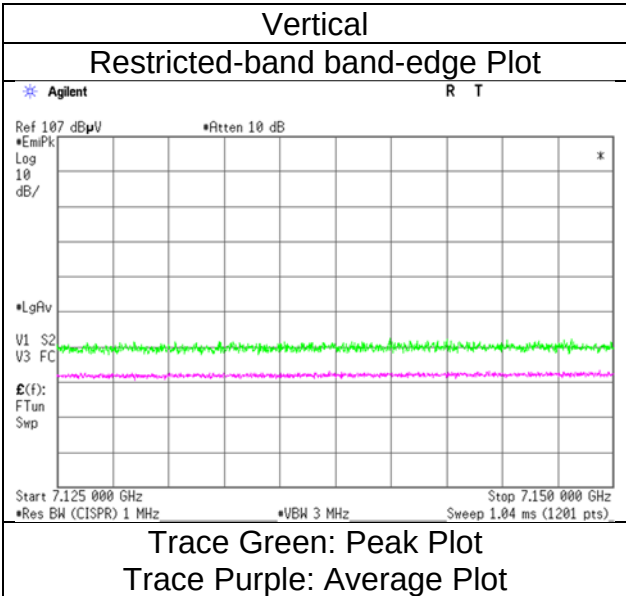
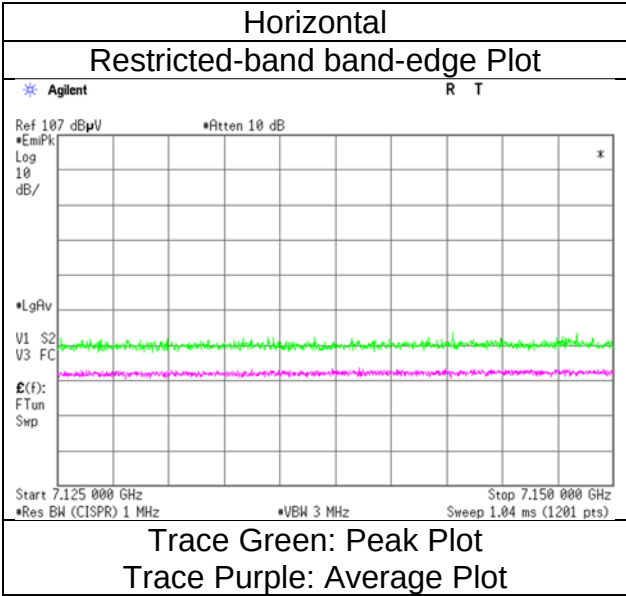
Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab.
SAC 3
July 28, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11ax-20 (OFDM), 7095 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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 5965 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11930.000	PK	47.01	38.58	10.02	40.17	-9.54	45.90	73.9	28.0	150	0	Floor noise
Hori.	17895.000	PK	44.34	40.25	12.20	37.30	-9.54	49.95	73.9	23.9	150	0	Floor noise
Hori.	23860.000	PK	43.14	40.23	13.41	46.65	-9.54	40.59	73.9	33.3	150	0	Floor noise
Hori.	11930.000	AV	37.03	38.58	10.02	40.17	-9.54	35.92	53.9	17.9	150	0	Floor noise
Hori.	17895.000	AV	34.34	40.25	12.20	37.30	-9.54	39.95	53.9	13.9	150	0	Floor noise
Hori.	23860.000	AV	32.79	40.23	13.41	46.65	-9.54	30.24	53.9	23.6	150	0	Floor noise
Vert.	11930.000	PK	46.53	38.58	10.02	40.17	-9.54	45.42	73.9	28.4	150	0	Floor noise
Vert.	17895.000	PK	45.59	40.25	12.20	37.30	-9.54	51.20	73.9	22.7	150	0	Floor noise
Vert.	23860.000	PK	43.09	40.23	13.41	46.65	-9.54	40.54	73.9	33.3	150	0	Floor noise
Vert.	11930.000	AV	36.82	38.58	10.02	40.17	-9.54	35.71	53.9	18.1	150	0	Floor noise
Vert.	17895.000	AV	35.49	40.25	12.20	37.30	-9.54	41.10	53.9	12.8	150	0	Floor noise
Vert.	23860.000	AV	32.82	40.23	13.41	46.65	-9.54	30.27	53.9	23.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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	51.19	33.06	17.24	43.38	0.00	2.49	60.60	-34.63	-7.0	27.6	132	242	-
Hori.	29825.000	PK	55.12	43.63	17.69	65.99	0.00	-9.54	40.91	-54.32	-7.0	47.3	174	81	-
Hori.	5925.000	AV	41.32	33.06	17.24	43.38	0.00	2.49	50.73	-44.50	-27.0	17.5	132	242	-
Hori.	29825.000	AV	47.31	43.63	17.69	65.99	0.00	-9.54	33.10	-62.13	-27.0	35.1	174	81	-
Vert.	5925.000	PK	51.48	33.06	17.24	43.38	0.00	2.49	60.89	-34.34	-7.0	27.3	100	131	-
Vert.	29825.000	PK	57.07	43.63	17.69	65.99	0.00	-9.54	42.86	-52.37	-7.0	45.3	117	339	-
Vert.	5925.000	AV	41.10	33.06	17.24	43.38	0.00	2.49	50.51	-44.72	-27.0	17.7	100	131	-
Vert.	29825.000	AV	48.77	43.63	17.69	65.99	0.00	-9.54	34.56	-60.67	-27.0	33.6	117	339	-

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).

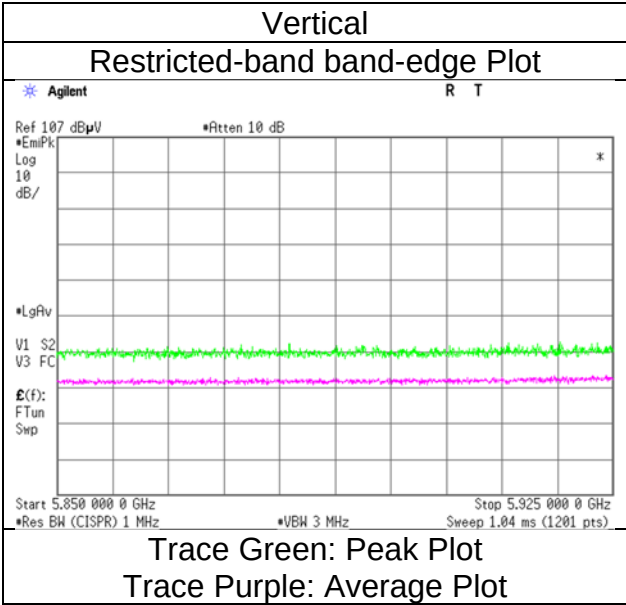
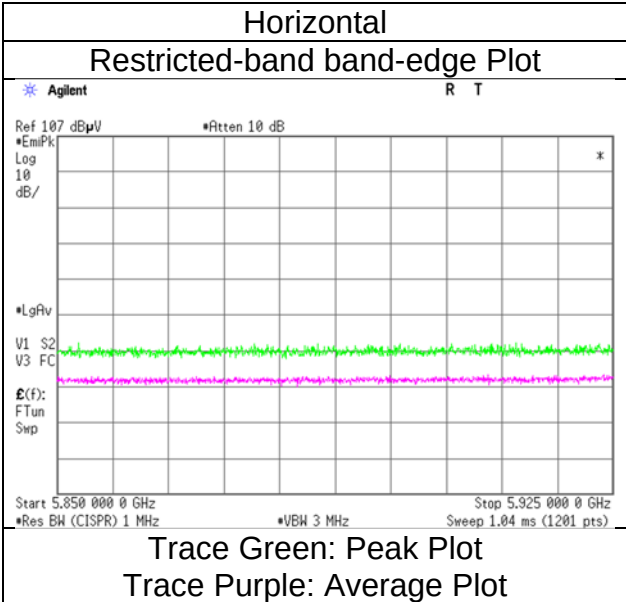
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
July 28, 2023
24 deg.C, 51 %RH
Kouki Yamada
Tx 11ax-40 (OFDM), 5965 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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6205 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12410.000	PK	45.91	38.09	10.14	39.87	-9.54	44.73	73.9	29.1	150	0	Floor noise
Hori.	18615.000	PK	43.98	40.16	11.66	48.35	-9.54	37.91	73.9	35.9	150	0	Floor noise
Hori.	12410.000	AV	35.81	38.09	10.14	39.87	-9.54	34.63	53.9	19.2	150	0	Floor noise
Hori.	18615.000	AV	32.98	40.16	11.66	48.35	-9.54	26.91	53.9	26.9	150	0	Floor noise
Vert.	12410.000	PK	45.48	38.09	10.14	39.87	-9.54	44.30	73.9	29.6	150	0	Floor noise
Vert.	18615.000	PK	44.16	40.16	11.66	48.35	-9.54	38.09	73.9	35.8	150	0	Floor noise
Vert.	12410.000	AV	36.39	38.09	10.14	39.87	-9.54	35.21	53.9	18.6	150	0	Floor noise
Vert.	18615.000	AV	32.99	40.16	11.66	48.35	-9.54	26.92	53.9	26.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	24820.000	PK	45.06	40.40	13.62	46.88	0.00	-9.54	42.66	-52.57	-7.0	45.5	150	0	Floor noise
Hori.	31025.000	PK	53.69	43.79	18.21	64.71	0.00	-9.54	41.44	-53.79	-7.0	46.7	173	79	-
Hori.	24820.000	AV	34.34	40.40	13.62	46.88	0.00	-9.54	31.94	-63.29	-27.0	36.2	150	0	Floor noise
Hori.	31025.000	AV	44.22	43.79	18.21	64.71	0.00	-9.54	31.97	-63.26	-27.0	36.2	173	79	-
Vert.	24820.000	PK	45.50	40.40	13.62	46.88	0.00	-9.54	43.10	-52.13	-7.0	45.1	150	0	Floor noise
Vert.	31025.000	PK	56.28	43.79	18.21	64.71	0.00	-9.54	44.03	-51.20	-7.0	44.2	123	338	-
Vert.	24820.000	AV	34.49	40.40	13.62	46.88	0.00	-9.54	32.09	-63.14	-27.0	36.1	150	0	Floor noise
Vert.	31025.000	AV	47.04	43.79	18.21	64.71	0.00	-9.54	34.79	-60.44	-27.0	33.4	123	338	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6405 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19215.000	PK	43.88	40.27	11.90	47.69	-9.54	38.82	73.9	35.0	150	0	Floor noise
Hori.	19215.000	AV	33.41	40.27	11.90	47.69	-9.54	28.35	53.9	25.5	150	0	Floor noise
Vert.	19215.000	PK	43.73	40.27	11.90	47.69	-9.54	38.67	73.9	35.2	150	0	Floor noise
Vert.	19215.000	AV	33.25	40.27	11.90	47.69	-9.54	28.19	53.9	25.7	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	12810.000	PK	45.29	38.43	10.30	39.51	0.00	-9.54	44.97	-50.26	-7.0	43.2	150	0	Floor noise
Hori.	25620.000	PK	45.28	40.73	13.99	47.07	0.00	-9.54	43.39	-51.84	-7.0	44.8	150	0	Floor noise
Hori.	32025.000	PK	52.41	43.71	18.37	63.63	0.00	-9.54	41.32	-53.91	-7.0	46.9	221	60	-
Hori.	12810.000	AV	36.06	38.43	10.30	39.51	0.00	-9.54	35.74	-59.49	-27.0	32.4	150	0	Floor noise
Hori.	25620.000	AV	34.12	40.73	13.99	47.07	0.00	-9.54	32.23	-63.00	-27.0	36.0	150	0	Floor noise
Hori.	32025.000	AV	43.67	43.71	18.37	63.63	0.00	-9.54	32.58	-62.65	-27.0	35.6	221	60	-
Vert.	12810.000	PK	46.08	38.43	10.30	39.51	0.00	-9.54	45.76	-49.47	-7.0	42.4	150	0	Floor noise
Vert.	25620.000	PK	44.57	40.73	13.99	47.07	0.00	-9.54	42.68	-52.55	-7.0	45.5	150	0	Floor noise
Vert.	32025.000	PK	55.16	43.71	18.37	63.63	0.00	-9.54	44.07	-51.16	-7.0	44.1	156	327	-
Vert.	12810.000	AV	35.43	38.43	10.30	39.51	0.00	-9.54	35.11	-60.12	-27.0	33.1	150	0	Floor noise
Vert.	25620.000	AV	34.10	40.73	13.99	47.07	0.00	-9.54	32.21	-63.02	-27.0	36.0	150	0	Floor noise
Vert.	32025.000	AV	46.65	43.71	18.37	63.63	0.00	-9.54	35.56	-59.67	-27.0	32.6	156	327	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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 SAC 3 SAC 3 SAC 2 SAC 1 SAC 2
Date October 20, 2023 July 28, 2023 July 31, 2023 August 2, 2023 August 4, 2023
Temperature / Humidity 23 deg.C, 44 %RH 24 deg.C, 51 %RH 22 deg.C, 45 %RH 26 deg.C, 70 %RH 22 deg.C, 64 %RH
Engineer Hiromasa Sato Kouki Yamada Akihiro Oda Hiromasa Sato Hiromasa Sato
(30 MHz -1 GHz) (1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Mode Tx 11ax-40 (OFDM), 6445 MHz

(below 1 GHz and above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	33.270	QP	20.99	17.75	6.65	32.20	0.00	15.68	40.0	24.3	150	0	-
Hori.	736.093	QP	20.38	20.17	10.42	31.79	0.00	21.67	46.0	24.3	150	2	-
Hori.	817.801	QP	19.81	20.78	10.69	31.55	0.00	22.22	46.0	23.7	150	1	-
Hori.	19335.000	PK	43.51	40.32	11.94	47.44	-9.54	38.79	73.9	35.1	150	0	Floor noise
Hori.	19335.000	AV	34.09	40.32	11.94	47.44	-9.54	29.37	53.9	24.5	150	0	Floor noise
Vert.	30.119	QP	22.03	18.97	6.61	32.20	0.00	17.90	40.0	22.1	150	2	-
Vert.	31.891	QP	21.58	18.31	6.63	32.20	0.00	16.81	40.0	23.1	150	1	-
Vert.	738.693	QP	20.12	20.17	10.42	31.78	0.00	21.42	46.0	24.5	150	1	-
Vert.	752.607	QP	20.08	20.11	10.47	31.75	0.00	21.40	46.0	24.6	150	0	-
Vert.	19335.000	PK	43.37	40.32	11.94	47.44	-9.54	38.65	73.9	35.2	150	0	Floor noise
Vert.	19335.000	AV	34.29	40.32	11.94	47.44	-9.54	29.57	53.9	24.3	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	12890.000	PK	45.07	38.50	10.33	39.43	0.00	-9.54	44.93	-50.30	-7.0	43.3	150	0	Floor noise
Hori.	25780.000	PK	43.87	40.69	13.98	47.03	0.00	-9.54	41.97	-53.26	-7.0	46.2	150	0	Floor noise
Hori.	32225.000	PK	53.28	43.65	18.50	63.79	0.00	-9.54	42.10	-53.13	-7.0	46.1	222	62	-
Hori.	12890.000	AV	34.90	38.50	10.33	39.43	0.00	-9.54	34.76	-60.47	-27.0	33.4	150	0	Floor noise
Hori.	25780.000	AV	34.10	40.69	13.98	47.03	0.00	-9.54	32.20	-63.03	-27.0	36.0	150	0	Floor noise
Hori.	32225.000	AV	43.41	43.65	18.50	63.79	0.00	-9.54	32.23	-63.00	-27.0	36.0	222	62	-
Vert.	12890.000	PK	46.20	38.50	10.33	39.43	0.00	-9.54	46.06	-49.17	-7.0	42.1	150	0	Floor noise
Vert.	25780.000	PK	43.67	40.69	13.98	47.03	0.00	-9.54	41.77	-53.46	-7.0	46.4	150	0	Floor noise
Vert.	32225.000	PK	55.51	43.65	18.50	63.79	0.00	-9.54	44.33	-50.90	-7.0	43.9	157	328	-
Vert.	12890.000	AV	35.78	38.50	10.33	39.43	0.00	-9.54	35.64	-59.59	-27.0	32.5	150	0	Floor noise
Vert.	25780.000	AV	34.32	40.69	13.98	47.03	0.00	-9.54	32.42	-62.81	-27.0	35.8	150	0	Floor noise
Vert.	32225.000	AV	46.68	43.65	18.50	63.79	0.00	-9.54	35.50	-59.73	-27.0	32.7	157	328	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-40 (OFDM), 6485 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	19455.000	PK	42.98	40.32	11.99	47.19	-9.54	38.56	73.9	35.3	150	0	Floor noise
Hori.	19455.000	AV	33.74	40.32	11.99	47.19	-9.54	29.32	53.9	24.5	150	0	Floor noise
Vert.	19455.000	PK	43.68	40.32	11.99	47.19	-9.54	39.26	73.9	34.6	150	0	Floor noise
Vert.	19455.000	AV	33.75	40.32	11.99	47.19	-9.54	29.33	53.9	24.5	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	12970.000	PK	44.19	38.55	10.37	39.35	0.00	-9.54	44.22	-51.01	-7.0	44.0	150	0	Floor noise
Hori.	25940.000	PK	43.38	40.62	13.98	46.99	0.00	-9.54	41.45	-53.78	-7.0	46.7	150	0	Floor noise
Hori.	32425.000	PK	52.67	43.71	18.63	63.96	0.00	-9.54	41.51	-53.72	-7.0	46.7	220	63	-
Hori.	12970.000	AV	35.18	38.55	10.37	39.35	0.00	-9.54	35.21	-60.02	-27.0	33.0	150	0	Floor noise
Hori.	25940.000	AV	34.28	40.62	13.98	46.99	0.00	-9.54	32.35	-62.88	-27.0	35.8	150	0	Floor noise
Hori.	32425.000	AV	43.32	43.71	18.63	63.96	0.00	-9.54	32.16	-63.07	-27.0	36.0	220	63	-
Vert.	12970.000	PK	45.37	38.55	10.37	39.35	0.00	-9.54	45.40	-49.83	-7.0	42.8	150	0	Floor noise
Vert.	25940.000	PK	43.48	40.62	13.98	46.99	0.00	-9.54	41.55	-53.68	-7.0	46.6	150	0	Floor noise
Vert.	32425.000	PK	55.00	43.71	18.63	63.96	0.00	-9.54	43.84	-51.39	-7.0	44.3	154	320	-
Vert.	12970.000	AV	34.48	38.55	10.37	39.35	0.00	-9.54	34.51	-60.72	-27.0	33.7	150	0	Floor noise
Vert.	25940.000	AV	34.28	40.62	13.98	46.99	0.00	-9.54	32.35	-62.88	-27.0	35.8	150	0	Floor noise
Vert.	32425.000	AV	46.35	43.71	18.63	63.96	0.00	-9.54	35.19	-60.04	-27.0	33.0	154	320	-

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	SAC 2	SAC 1	SAC 2
Date	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6525 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19575.000	PK	42.32	40.31	12.04	47.18	-9.54	37.95	73.9	35.9	150	0	Floor noise
Hori.	19575.000	AV	32.55	40.31	12.04	47.18	-9.54	28.18	53.9	25.7	150	0	Floor noise
Vert.	19575.000	PK	42.11	40.31	12.04	47.18	-9.54	37.74	73.9	36.1	150	0	Floor noise
Vert.	19575.000	AV	31.59	40.31	12.04	47.18	-9.54	27.22	53.9	26.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13050.000	PK	45.27	38.62	10.39	39.28	0.00	-9.54	45.46	-49.77	-7.0	42.7	150	0	Floor noise
Hori.	26100.000	PK	43.30	40.53	14.00	46.94	0.00	-9.54	41.35	-53.88	-7.0	46.8	150	0	Floor noise
Hori.	32625.000	PK	52.28	43.71	18.69	63.95	0.00	-9.54	41.19	-54.04	-7.0	47.0	216	63	-
Hori.	13050.000	AV	34.59	38.62	10.39	39.28	0.00	-9.54	34.78	-60.45	-27.0	33.4	150	0	Floor noise
Hori.	26100.000	AV	34.43	40.53	14.00	46.94	0.00	-9.54	32.48	-62.75	-27.0	35.7	150	0	Floor noise
Hori.	32625.000	AV	42.90	43.71	18.69	63.95	0.00	-9.54	31.81	-63.42	-27.0	36.4	216	63	-
Vert.	13050.000	PK	44.88	38.62	10.39	39.28	0.00	-9.54	45.07	-50.16	-7.0	43.1	150	0	Floor noise
Vert.	26100.000	PK	43.62	40.53	14.00	46.94	0.00	-9.54	41.67	-53.56	-7.0	46.5	150	0	Floor noise
Vert.	32625.000	PK	55.08	43.71	18.69	63.95	0.00	-9.54	43.99	-51.24	-7.0	44.2	153	328	-
Vert.	13050.000	AV	35.66	38.62	10.39	39.28	0.00	-9.54	35.85	-59.38	-27.0	32.3	150	0	Floor noise
Vert.	26100.000	AV	33.04	40.53	14.00	46.94	0.00	-9.54	31.09	-64.14	-27.0	37.1	150	0	Floor noise
Vert.	32625.000	AV	45.29	43.71	18.69	63.95	0.00	-9.54	34.20	-61.03	-27.0	34.0	153	328	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 1	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6565 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	19695.000	PK	42.14	40.27	12.08	47.30	-9.54	37.65	73.9	36.2	150	0	Floor noise
Hori.	19695.000	AV	33.09	40.27	12.08	47.30	-9.54	28.60	53.9	25.3	150	0	Floor noise
Vert.	19695.000	PK	42.15	40.27	12.08	47.30	-9.54	37.66	73.9	36.2	150	0	Floor noise
Vert.	19695.000	AV	32.90	40.27	12.08	47.30	-9.54	28.41	53.9	25.4	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	13130.000	PK	44.29	38.71	12.23	38.24	0.00	-9.54	47.45	-47.78	-7.0	40.7	150	0	Floor noise
Hori.	26260.000	PK	45.50	40.44	14.04	46.89	0.00	-9.54	43.55	-51.68	-7.0	44.6	150	0	Floor noise
Hori.	32825.000	PK	52.65	43.73	18.72	63.84	0.00	-9.54	41.72	-53.51	-7.0	46.5	216	15	-
Hori.	13130.000	AV	35.49	38.71	12.23	38.24	0.00	-9.54	38.65	-56.58	-27.0	29.5	150	0	Floor noise
Hori.	26260.000	AV	36.14	40.44	14.04	46.89	0.00	-9.54	34.19	-61.04	-27.0	34.0	150	0	Floor noise
Hori.	32825.000	AV	42.63	43.73	18.72	63.84	0.00	-9.54	31.70	-63.53	-27.0	36.5	216	15	-
Vert.	13130.000	PK	43.98	38.71	12.23	38.24	0.00	-9.54	47.14	-48.09	-7.0	41.0	150	0	Floor noise
Vert.	26260.000	PK	44.91	40.44	14.04	46.89	0.00	-9.54	42.96	-52.27	-7.0	45.2	150	0	Floor noise
Vert.	32825.000	PK	53.70	43.73	18.72	63.84	0.00	-9.54	42.77	-52.46	-7.0	45.4	153	328	-
Vert.	13130.000	AV	34.43	38.71	12.23	38.24	0.00	-9.54	37.59	-57.64	-27.0	30.6	150	0	Floor noise
Vert.	26260.000	AV	35.60	40.44	14.04	46.89	0.00	-9.54	33.65	-61.58	-27.0	34.5	150	0	Floor noise
Vert.	32825.000	AV	44.18	43.73	18.72	63.84	0.00	-9.54	33.25	-61.98	-27.0	34.9	153	328	-

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	SAC 1	SAC 1	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6685 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13370.000	PK	45.66	38.96	12.37	38.78	-9.54	48.67	73.9	25.2	150	0	Floor noise
Hori.	20055.000	PK	43.02	40.20	12.21	47.51	-9.54	38.38	73.9	35.5	150	0	Floor noise
Hori.	13370.000	AV	35.74	38.96	12.37	38.78	-9.54	38.75	53.9	15.1	150	0	Floor noise
Hori.	20055.000	AV	34.33	40.20	12.21	47.51	-9.54	29.69	53.9	24.2	150	0	Floor noise
Vert.	13370.000	PK	44.82	38.96	12.37	38.78	-9.54	47.83	73.9	26.0	150	0	Floor noise
Vert.	20055.000	PK	42.92	40.20	12.21	47.51	-9.54	38.28	73.9	35.6	150	0	Floor noise
Vert.	13370.000	AV	37.33	38.96	12.37	38.78	-9.54	40.34	53.9	13.5	150	0	Floor noise
Vert.	20055.000	AV	33.68	40.20	12.21	47.51	-9.54	29.04	53.9	24.8	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	26740.000	PK	58.63	43.21	16.57	67.09	0.00	-9.54	41.78	-53.45	-7.0	46.4	152	105	-
Hori.	33425.000	PK	51.99	43.62	18.84	65.04	0.00	-9.54	39.87	-55.36	-7.0	48.3	210	65	-
Hori.	26740.000	AV	47.94	43.21	16.57	67.09	0.00	-9.54	31.09	-64.14	-27.0	37.1	152	105	-
Hori.	33425.000	AV	43.08	43.62	18.84	65.04	0.00	-9.54	30.96	-64.27	-27.0	37.2	210	65	-
Vert.	26740.000	PK	60.35	43.21	16.57	67.09	0.00	-9.54	43.50	-51.73	-7.0	44.7	159	320	-
Vert.	33425.000	PK	53.57	43.62	18.84	65.04	0.00	-9.54	41.45	-53.78	-7.0	46.7	156	38	-
Vert.	26740.000	AV	51.20	43.21	16.57	67.09	0.00	-9.54	34.35	-60.88	-27.0	33.8	159	320	-
Vert.	33425.000	AV	44.47	43.62	18.84	65.04	0.00	-9.54	32.35	-62.88	-27.0	35.8	156	38	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 1	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6845 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20535.000	PK	44.36	40.12	12.29	46.67	-9.54	40.56	73.9	33.3	150	0	Floor noise
Hori.	20535.000	AV	33.58	40.12	12.29	46.67	-9.54	29.78	53.9	24.1	150	0	Floor noise
Vert.	20535.000	PK	43.47	40.12	12.29	46.67	-9.54	39.67	73.9	34.2	150	0	Floor noise
Vert.	20535.000	AV	33.60	40.12	12.29	46.67	-9.54	29.80	53.9	24.1	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13690.000	PK	43.93	39.08	12.55	38.97	0.00	-9.54	47.05	-48.18	-7.0	41.1	150	0	Floor noise
Hori.	27380.000	PK	58.16	43.46	16.83	68.51	0.00	-9.54	40.40	-54.83	-7.0	47.8	142	146	-
Hori.	34225.000	PK	52.63	43.54	19.09	65.49	0.00	-9.54	40.23	-55.00	-7.0	48.0	225	144	-
Hori.	13690.000	AV	35.67	39.08	12.55	38.97	0.00	-9.54	38.79	-56.44	-27.0	29.4	150	0	Floor noise
Hori.	27380.000	AV	49.49	43.46	16.83	68.51	0.00	-9.54	31.73	-63.50	-27.0	36.5	142	146	-
Hori.	34225.000	AV	42.26	43.54	19.09	65.49	0.00	-9.54	29.86	-65.37	-27.0	38.3	225	144	-
Vert.	13690.000	PK	44.25	39.08	12.55	38.97	0.00	-9.54	47.37	-47.86	-7.0	40.8	150	0	Floor noise
Vert.	27380.000	PK	60.43	43.46	16.83	68.51	0.00	-9.54	42.67	-52.56	-7.0	45.5	161	230	-
Vert.	34225.000	PK	54.60	43.54	19.09	65.49	0.00	-9.54	42.20	-53.03	-7.0	46.0	117	66	-
Vert.	13690.000	AV	35.33	39.08	12.55	38.97	0.00	-9.54	38.45	-56.78	-27.0	29.7	150	0	Floor noise
Vert.	27380.000	AV	51.57	43.46	16.83	68.51	0.00	-9.54	33.81	-61.42	-27.0	34.4	161	230	-
Vert.	34225.000	AV	44.22	43.54	19.09	65.49	0.00	-9.54	31.82	-63.41	-27.0	36.4	117	66	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6885 MHz			

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	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	44.83	39.05	12.61	38.93	0.00	-9.54	48.02	-47.21	-7.0	40.2	150	0	Floor noise
Hori.	23540.000	PK	43.71	40.26	15.49	46.57	0.00	-9.54	43.35	-51.88	-7.0	44.8	150	0	Floor noise
Hori.	27540.000	PK	58.76	43.53	16.90	69.05	0.00	-9.54	40.60	-54.63	-7.0	47.6	140	145	-
Hori.	34425.000	PK	53.71	43.51	19.14	65.92	0.00	-9.54	40.90	-54.33	-7.0	47.3	215	145	-
Hori.	13770.000	AV	36.11	39.05	12.61	38.93	0.00	-9.54	39.30	-55.93	-27.0	28.9	150	0	Floor noise
Hori.	23540.000	AV	34.55	40.26	15.49	46.57	0.00	-9.54	34.19	-61.04	-27.0	34.0	150	0	Floor noise
Hori.	27540.000	AV	49.84	43.53	16.90	69.05	0.00	-9.54	31.68	-63.55	-27.0	36.5	140	145	-
Hori.	34425.000	AV	43.89	43.51	19.14	65.92	0.00	-9.54	31.08	-64.15	-27.0	37.1	215	145	-
Vert.	13770.000	PK	45.19	39.05	12.61	38.93	0.00	-9.54	48.38	-46.85	-7.0	39.8	150	0	Floor noise
Vert.	23540.000	PK	45.53	40.26	15.49	46.57	0.00	-9.54	45.17	-50.06	-7.0	43.0	150	0	Floor noise
Vert.	27540.000	PK	60.94	43.53	16.90	69.05	0.00	-9.54	42.78	-52.45	-7.0	45.4	158	320	-
Vert.	34425.000	PK	55.40	43.51	19.14	65.92	0.00	-9.54	42.59	-52.64	-7.0	45.6	158	58	-
Vert.	13770.000	AV	35.58	39.05	12.61	38.93	0.00	-9.54	38.77	-56.46	-27.0	29.4	150	0	Floor noise
Vert.	23540.000	AV	33.99	40.26	15.49	46.57	0.00	-9.54	33.63	-61.60	-27.0	34.6	150	0	Floor noise
Vert.	27540.000	AV	52.12	43.53	16.90	69.05	0.00	-9.54	33.96	-61.27	-27.0	34.2	158	320	-
Vert.	34425.000	AV	45.46	43.51	19.14	65.92	0.00	-9.54	32.65	-62.58	-27.0	35.5	158	58	-

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	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 6925 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20775.000	PK	44.13	40.13	14.42	46.85	-9.54	42.29	73.9	31.6	150	0	Floor noise
Hori.	20775.000	AV	35.47	40.13	14.42	46.85	-9.54	33.63	53.9	20.2	150	0	Floor noise
Vert.	20775.000	PK	44.70	40.13	14.42	46.85	-9.54	42.86	73.9	31.0	150	0	Floor noise
Vert.	20775.000	AV	35.06	40.13	14.42	46.85	-9.54	33.22	53.9	20.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13850.000	PK	45.02	39.02	12.67	38.88	0.00	-9.54	48.29	-46.94	-7.0	39.9	150	0	Floor noise
Hori.	27700.000	PK	58.89	43.58	16.97	69.03	0.00	-9.54	40.87	-54.36	-7.0	47.3	154	161	-
Hori.	34625.000	PK	53.26	43.50	19.21	66.19	0.00	-9.54	40.24	-54.99	-7.0	47.9	218	141	-
Hori.	13850.000	AV	34.59	39.02	12.67	38.88	0.00	-9.54	37.86	-57.37	-27.0	30.3	150	0	Floor noise
Hori.	27700.000	AV	49.48	43.58	16.97	69.03	0.00	-9.54	31.46	-63.77	-27.0	36.7	154	161	-
Hori.	34625.000	AV	44.09	43.50	19.21	66.19	0.00	-9.54	31.07	-64.16	-27.0	37.1	218	141	-
Vert.	13850.000	PK	45.46	39.02	12.67	38.88	0.00	-9.54	48.73	-46.50	-7.0	39.5	150	0	Floor noise
Vert.	27700.000	PK	60.68	43.58	16.97	69.03	0.00	-9.54	42.66	-52.57	-7.0	45.5	161	230	-
Vert.	34625.000	PK	55.48	43.50	19.21	66.19	0.00	-9.54	42.46	-52.77	-7.0	45.7	254	153	-
Vert.	13850.000	AV	36.02	39.02	12.67	38.88	0.00	-9.54	39.29	-55.94	-27.0	28.9	150	0	Floor noise
Vert.	27700.000	AV	52.82	43.58	16.97	69.03	0.00	-9.54	34.80	-60.43	-27.0	33.4	161	230	-
Vert.	34625.000	AV	45.27	43.50	19.21	66.19	0.00	-9.54	32.25	-62.98	-27.0	35.9	254	153	-

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] = $10 \times \text{LOG} \left(\left(10^{\frac{1}{10} \times (\text{Electric Field Strength [dBuV/m]} / 20)} \right)^2 \times 10^{-6} \times \text{Distance} : 3 [\text{m}] \right)^2 / 30 \times 10^{-3}$

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 7005 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	21015.000	PK	43.58	40.13	14.52	47.03	-9.54	41.66	73.9	32.2	150	0	-
Hori.	21015.000	AV	33.49	40.13	14.52	47.03	-9.54	31.57	53.9	22.3	150	0	-
Vert.	21015.000	PK	43.19	40.13	14.52	47.03	-9.54	41.27	73.9	32.6	150	0	-
Vert.	21015.000	AV	32.95	40.13	14.52	47.03	-9.54	31.03	53.9	22.8	150	0	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	14010.000	PK	45.01	38.92	12.78	38.80	0.00	-9.54	48.37	-46.86	-7.0	39.8	150	0	Floor noise
Hori.	28020.000	PK	58.01	43.65	17.11	68.95	0.00	-9.54	40.28	-54.95	-7.0	47.9	154	167	-
Hori.	35025.000	PK	53.97	43.40	19.36	66.60	0.00	-9.54	40.59	-54.64	-7.0	47.6	209	86	-
Hori.	14010.000	AV	37.55	38.92	12.78	38.80	0.00	-9.54	40.91	-54.32	-27.0	27.3	150	0	Floor noise
Hori.	28020.000	AV	49.62	43.65	17.11	68.95	0.00	-9.54	31.89	-63.34	-27.0	36.3	154	167	-
Hori.	35025.000	AV	43.17	43.40	19.36	66.60	0.00	-9.54	29.79	-65.44	-27.0	38.4	209	86	-
Vert.	14010.000	PK	46.55	38.92	12.78	38.80	0.00	-9.54	49.91	-45.32	-7.0	38.3	150	0	Floor noise
Vert.	28020.000	PK	60.59	43.65	17.11	68.95	0.00	-9.54	42.86	-52.37	-7.0	45.3	158	232	-
Vert.	35025.000	PK	55.59	43.40	19.36	66.60	0.00	-9.54	42.21	-53.02	-7.0	46.0	157	59	-
Vert.	14010.000	AV	35.91	38.92	12.78	38.80	0.00	-9.54	39.27	-55.96	-27.0	28.9	150	0	Floor noise
Vert.	28020.000	AV	53.05	43.65	17.11	68.95	0.00	-9.54	35.32	-59.91	-27.0	32.9	158	232	-
Vert.	35025.000	AV	46.10	43.40	19.36	66.60	0.00	-9.54	32.72	-62.51	-27.0	35.5	157	59	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	22 deg.C, 64 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ax-40 (OFDM), 7085 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	21255.000	PK	44.16	40.17	14.63	47.11	-9.54	42.31	73.9	31.5	150	0	Floor noise
Hori.	21255.000	AV	34.14	40.17	14.63	47.11	-9.54	32.29	53.9	21.6	150	0	Floor noise
Vert.	21255.000	PK	43.82	40.17	14.63	47.11	-9.54	41.97	73.9	31.9	150	0	Floor noise
Vert.	21255.000	AV	34.19	40.17	14.63	47.11	-9.54	32.34	53.9	21.5	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	7125.000	PK	50.86	37.00	17.92	43.29	0.00	2.49	64.98	-30.25	-7.0	23.2	280	32	-
Hori.	14170.000	PK	46.04	38.92	12.89	38.84	0.00	-9.54	49.47	-45.76	-7.0	38.7	150	0	Floor noise
Hori.	28340.000	PK	57.51	43.70	17.27	68.01	0.00	-9.54	40.93	-54.30	-7.0	47.3	151	161	-
Hori.	35425.000	PK	54.44	43.41	19.54	67.77	0.00	-9.54	40.08	-55.15	-7.0	48.1	208	153	-
Hori.	7125.000	AV	40.16	37.00	17.92	43.29	0.00	2.49	54.28	-40.95	-27.0	13.9	280	32	-
Hori.	14170.000	AV	36.01	38.92	12.89	38.84	0.00	-9.54	39.44	-55.79	-27.0	28.7	150	0	Floor noise
Hori.	28340.000	AV	49.24	43.70	17.27	68.01	0.00	-9.54	32.66	-62.57	-27.0	35.5	151	161	-
Hori.	35425.000	AV	44.59	43.41	19.54	67.77	0.00	-9.54	30.23	-65.00	-27.0	38.0	208	153	-
Vert.	7125.000	PK	50.17	37.00	17.92	43.29	0.00	2.49	64.29	-30.94	-7.0	23.9	228	27	-
Vert.	14170.000	PK	46.68	38.92	12.89	38.84	0.00	-9.54	50.11	-45.12	-7.0	38.1	150	0	Floor noise
Vert.	28340.000	PK	59.62	43.70	17.27	68.01	0.00	-9.54	43.04	-52.19	-7.0	45.1	151	331	-
Vert.	35425.000	PK	57.03	43.41	19.54	67.77	0.00	-9.54	42.67	-52.56	-7.0	45.5	158	60	-
Vert.	7125.000	AV	40.41	37.00	17.92	43.29	0.00	2.49	54.53	-40.70	-27.0	13.7	228	27	-
Vert.	14170.000	AV	37.39	38.92	12.89	38.84	0.00	-9.54	40.82	-54.41	-27.0	27.4	150	0	Floor noise
Vert.	28340.000	AV	51.24	43.70	17.27	68.01	0.00	-9.54	34.66	-60.57	-27.0	33.5	151	331	-
Vert.	35425.000	AV	45.26	43.41	19.54	67.77	0.00	-9.54	30.90	-64.33	-27.0	37.3	158	60	-

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] = $10 \cdot \log_{10} \left(\left(10^{\frac{1}{10} \cdot \text{Electric Field Strength [dBuV/m]}} / 20 \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^{-3}$

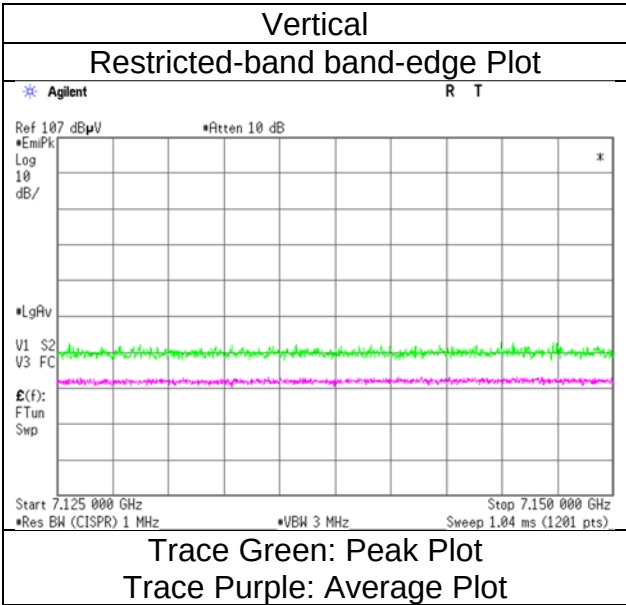
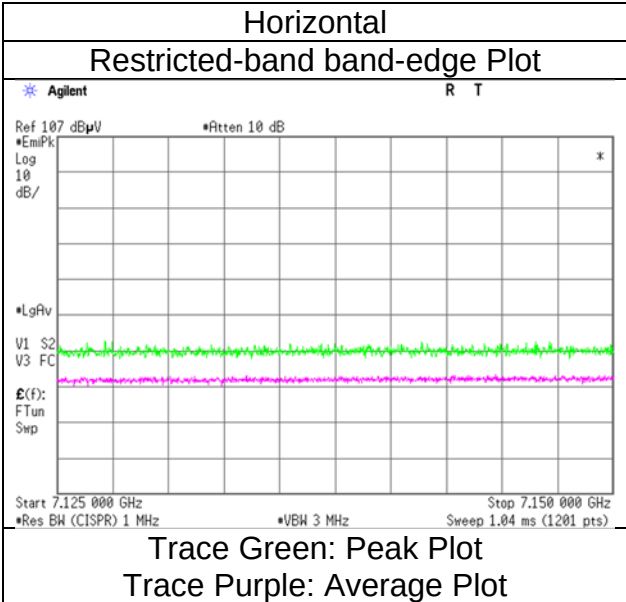
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3
Date	July 28, 2023
Temperature / Humidity	24 deg.C, 51 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-40 (OFDM), 7085 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	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 5985 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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	43.98	38.59	11.94	38.63	-9.54	46.34	73.9	27.5	150	0	Floor noise
Hori.	17955.000	PK	42.83	40.21	14.55	37.33	-9.54	50.72	73.9	23.1	150	0	Floor noise
Hori.	23940.000	PK	42.60	40.23	15.64	46.67	-9.54	42.26	73.9	31.6	165	294	-
Hori.	11970.000	AV	35.23	38.59	11.94	38.63	-9.54	37.59	53.9	16.3	150	0	Floor noise
Hori.	17955.000	AV	35.05	40.21	14.55	37.33	-9.54	42.94	53.9	10.9	150	0	Floor noise
Vert.	11970.000	PK	44.38	38.59	11.94	38.63	-9.54	46.74	73.9	27.1	150	0	Floor noise
Vert.	17955.000	PK	43.81	40.21	14.55	37.33	-9.54	51.70	73.9	22.2	150	0	Floor noise
Vert.	23940.000	PK	43.08	40.23	15.64	46.67	-9.54	42.74	73.9	31.1	177	262	-
Vert.	11970.000	AV	36.02	38.59	11.94	38.63	-9.54	38.38	53.9	15.5	150	0	Floor noise
Vert.	17955.000	AV	34.78	40.21	14.55	37.33	-9.54	42.67	53.9	11.2	150	0	Floor noise

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

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

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

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

Average measurement value with duty factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	23940.000	AV	33.56	40.23	15.64	46.67	0.22	-9.54	33.44	53.9	20.4	-
Vert.	23940.000	AV	34.61	40.23	15.64	46.67	0.22	-9.54	34.49	53.9	19.4	-

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Duty factor + 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 (3.995 m / 3.0 m) = 2.49 dB

Duty factor refer to "Burst rate confirmation" sheet.

(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	50.67	33.06	17.24	43.38	0.00	2.49	60.08	-35.15	-7.0	28.1	152	109	-
Hori.	29925.000	PK	54.76	43.63	17.73	65.47	0.00	-9.54	41.11	-54.12	-7.0	47.1	217	59	-
Hori.	5925.000	AV	39.99	33.06	17.24	43.38	0.22	2.49	49.62	-45.61	-27.0	18.6	152	109	-
Hori.	29925.000	AV	46.60	43.63	17.73	65.47	0.22	-9.54	33.17	-62.06	-27.0	35.0	217	59	-
Vert.	5925.000	PK	49.94	33.06	17.24	43.38	0.00	2.49	59.35	-35.88	-7.0	28.8	115	133	-
Vert.	29925.000	PK	53.55	43.63	17.73	65.47	0.00	-9.54	39.90	-55.33	-7.0	48.3	162	82	-
Vert.	5925.000	AV	38.93	33.06	17.24	43.38	0.22	2.49	48.56	-46.67	-27.0	19.6	115	133	-
Vert.	29925.000	AV	47.89	43.63	17.73	65.47	0.22	-9.54	34.46	-60.77	-27.0	33.7	162	82	-

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)

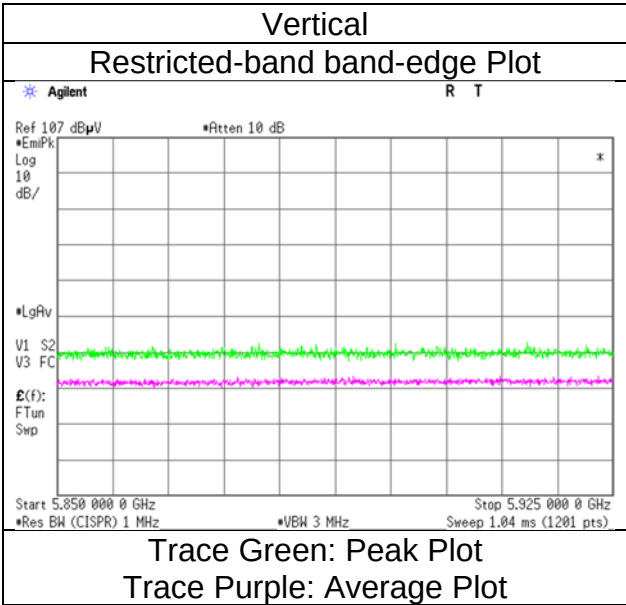
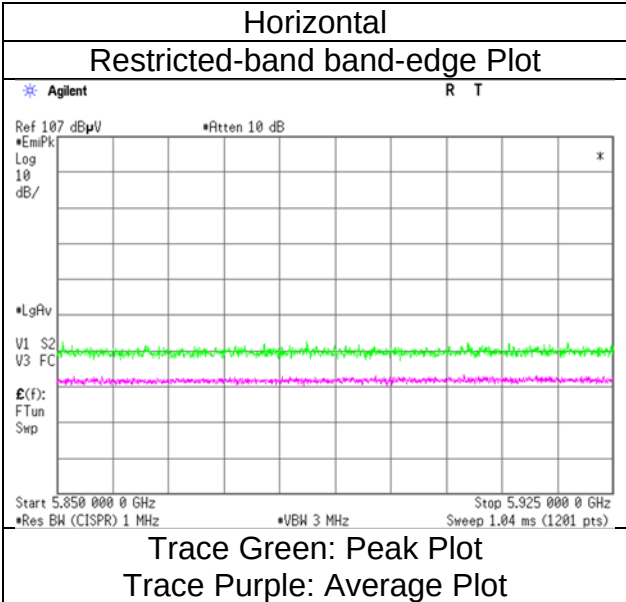
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	July 28, 2023
Temperature / Humidity	24 deg.C, 51 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-80 (OFDM), 5985 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	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6225 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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	44.39	38.06	12.12	38.24	-9.54	46.79	73.9	27.1	150	0	Floor noise
Hori.	18675.000	PK	43.26	40.18	13.61	48.32	-9.54	39.19	73.9	34.7	150	0	Floor noise
Hori.	12450.000	AV	36.10	38.06	12.12	38.24	-9.54	38.50	53.9	15.4	150	0	Floor noise
Hori.	18675.000	AV	33.89	40.18	13.61	48.32	-9.54	29.82	53.9	24.0	150	0	Floor noise
Vert.	12450.000	PK	45.24	38.06	12.12	38.24	-9.54	47.64	73.9	26.2	150	0	Floor noise
Vert.	18675.000	PK	43.03	40.18	13.61	48.32	-9.54	38.96	73.9	34.9	150	0	Floor noise
Vert.	12450.000	AV	35.36	38.06	12.12	38.24	-9.54	37.76	53.9	16.1	150	0	Floor noise
Vert.	18675.000	AV	33.88	40.18	13.61	48.32	-9.54	29.81	53.9	24.0	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	24900.000	PK	45.39	40.45	15.94	46.86	0.00	-9.54	45.38	-49.85	-7.0	42.8	164	319	-
Hori.	31125.000	PK	53.84	43.79	18.19	64.32	0.00	-9.54	41.96	-53.27	-7.0	46.2	215	61	-
Hori.	24900.000	AV	35.60	40.45	15.94	46.86	0.22	-9.54	35.81	-59.42	-27.0	32.4	164	319	-
Hori.	31125.000	AV	43.60	43.79	18.19	64.32	0.22	-9.54	31.94	-63.29	-27.0	36.2	215	61	-
Vert.	24900.000	PK	46.23	40.45	15.94	46.86	0.00	-9.54	46.22	-49.01	-7.0	42.0	192	269	-
Vert.	31125.000	PK	54.03	43.79	18.19	64.32	0.00	-9.54	42.15	-53.08	-7.0	46.0	161	91	-
Vert.	24900.000	AV	35.61	40.45	15.94	46.86	0.22	-9.54	35.82	-59.41	-27.0	32.4	192	269	-
Vert.	31125.000	AV	46.00	43.79	18.19	64.32	0.22	-9.54	34.34	-60.89	-27.0	33.8	161	91	-

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	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6385 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	19155.000	PK	44.09	40.30	13.82	47.81	-9.54	40.86	73.9	33.0	150	0	Floor noise
Hori.	19155.000	AV	33.94	40.30	13.82	47.81	-9.54	30.71	53.9	23.1	150	0	Floor noise
Vert.	19155.000	PK	42.95	40.30	13.82	47.81	-9.54	39.72	73.9	34.1	150	0	Floor noise
Vert.	19155.000	AV	34.62	40.30	13.82	47.81	-9.54	31.39	53.9	22.5	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	12770.000	PK	43.11	38.37	12.17	38.06	0.00	-9.54	46.05	-49.18	-7.0	42.1	150	0	Floor noise
Hori.	25540.000	PK	44.21	40.74	16.30	47.09	0.00	-9.54	44.62	-50.61	-7.0	43.6	178	306	-
Hori.	31925.000	PK	52.63	43.73	18.32	63.49	0.00	-9.54	41.65	-53.58	-7.0	46.5	216	60	-
Hori.	12770.000	AV	35.87	38.37	12.17	38.06	0.00	-9.54	38.81	-56.42	-27.0	29.4	150	0	Floor noise
Hori.	25540.000	AV	34.42	40.74	16.30	47.09	0.22	-9.54	35.05	-60.18	-27.0	33.1	178	306	-
Hori.	31925.000	AV	42.90	43.73	18.32	63.49	0.22	-9.54	32.14	-63.09	-27.0	36.0	216	60	-
Vert.	12770.000	PK	43.56	38.37	12.17	38.06	0.00	-9.54	46.50	-48.73	-7.0	41.7	150	0	Floor noise
Vert.	25540.000	PK	44.17	40.74	16.30	47.09	0.00	-9.54	44.58	-50.65	-7.0	43.6	193	255	-
Vert.	31925.000	PK	54.01	43.73	18.32	63.49	0.00	-9.54	43.03	-52.20	-7.0	45.2	154	327	-
Vert.	12770.000	AV	34.70	38.37	12.17	38.06	0.00	-9.54	37.64	-57.59	-27.0	30.5	150	0	Floor noise
Vert.	25540.000	AV	35.89	40.74	16.30	47.09	0.22	-9.54	36.52	-58.71	-27.0	31.7	193	255	-
Vert.	31925.000	AV	45.38	43.73	18.32	63.49	0.22	-9.54	34.62	-60.61	-27.0	33.6	154	327	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6465 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	19395.000	PK	42.91	40.31	13.96	47.32	-9.54	40.32	73.9	33.5	150	0	Floor noise
Hori.	19395.000	AV	33.53	40.31	13.96	47.32	-9.54	30.94	53.9	22.9	150	0	Floor noise
Vert.	19395.000	PK	42.46	40.31	13.96	47.32	-9.54	39.87	73.9	34.0	150	0	Floor noise
Vert.	19395.000	AV	32.58	40.31	13.96	47.32	-9.54	29.99	53.9	23.9	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	12930.000	PK	43.39	38.52	12.18	37.98	0.00	-9.54	46.57	-48.66	-7.0	41.6	150	0	Floor noise
Hori.	25860.000	PK	44.10	40.66	16.29	47.01	0.00	-9.54	44.50	-50.73	-7.0	43.7	165	302	-
Hori.	32325.000	PK	52.47	43.68	18.57	63.88	0.00	-9.54	41.30	-53.93	-7.0	46.9	178	47	-
Hori.	12930.000	AV	34.44	38.52	12.18	37.98	0.00	-9.54	37.62	-57.61	-27.0	30.6	150	0	Floor noise
Hori.	25860.000	AV	34.66	40.66	16.29	47.01	0.22	-9.54	35.28	-59.95	-27.0	32.9	165	302	-
Hori.	32325.000	AV	43.02	43.68	18.57	63.88	0.22	-9.54	32.07	-63.16	-27.0	36.1	178	47	-
Vert.	12930.000	PK	44.75	38.52	12.18	37.98	0.00	-9.54	47.93	-47.30	-7.0	40.3	150	0	Floor noise
Vert.	25860.000	PK	44.93	40.66	16.29	47.01	0.00	-9.54	45.33	-49.90	-7.0	42.9	172	291	-
Vert.	32325.000	PK	54.55	43.68	18.57	63.88	0.00	-9.54	43.38	-51.85	-7.0	44.8	152	328	-
Vert.	12930.000	AV	34.95	38.52	12.18	37.98	0.00	-9.54	38.13	-57.10	-27.0	30.1	150	0	Floor noise
Vert.	25860.000	AV	35.08	40.66	16.29	47.01	0.22	-9.54	35.70	-59.53	-27.0	32.5	172	291	-
Vert.	32325.000	AV	46.07	43.68	18.57	63.88	0.22	-9.54	35.12	-60.11	-27.0	33.1	152	328	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6545 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	19635.000	PK	42.08	40.30	14.05	47.24	-9.54	39.65	73.9	34.2	150	0	Floor noise
Hori.	19635.000	AV	31.62	40.30	14.05	47.24	-9.54	29.19	53.9	24.7	150	0	Floor noise
Vert.	19635.000	PK	41.46	40.30	14.05	47.24	-9.54	39.03	73.9	34.8	150	0	Floor noise
Vert.	19635.000	AV	32.64	40.30	14.05	47.24	-9.54	30.21	53.9	23.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13090.000	PK	43.48	38.67	12.23	38.15	0.00	-9.54	46.69	-48.54	-7.0	41.5	150	0	Floor noise
Hori.	26180.000	PK	45.18	40.48	16.34	46.92	0.00	-9.54	45.54	-49.69	-7.0	42.6	164	298	-
Hori.	32725.000	PK	51.92	43.72	18.70	63.90	0.00	-9.54	40.90	-54.33	-7.0	47.3	178	136	-
Hori.	13090.000	AV	36.21	38.67	12.23	38.15	0.00	-9.54	39.42	-55.81	-27.0	28.8	150	0	Floor noise
Hori.	26180.000	AV	34.60	40.48	16.34	46.92	0.22	-9.54	35.18	-60.05	-27.0	33.0	164	298	-
Hori.	32725.000	AV	42.34	43.72	18.70	63.90	0.22	-9.54	31.54	-63.69	-27.0	36.6	178	136	-
Vert.	13090.000	PK	45.11	38.67	12.23	38.15	0.00	-9.54	48.32	-46.91	-7.0	39.9	150	0	Floor noise
Vert.	26180.000	PK	45.43	40.48	16.34	46.92	0.00	-9.54	45.79	-49.44	-7.0	42.4	168	274	-
Vert.	32725.000	PK	52.99	43.72	18.70	63.90	0.00	-9.54	41.97	-53.26	-7.0	46.2	152	327	-
Vert.	13090.000	AV	34.82	38.67	12.23	38.15	0.00	-9.54	38.03	-57.20	-27.0	30.2	150	0	Floor noise
Vert.	26180.000	AV	35.19	40.48	16.34	46.92	0.22	-9.54	35.77	-59.46	-27.0	32.4	168	274	-
Vert.	32725.000	AV	44.06	43.72	18.70	63.90	0.22	-9.54	33.26	-61.97	-27.0	34.9	152	327	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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 SAC 3 SAC 1 SAC 2 SAC 2
Date July 28, 2023 August 1, 2023 August 2, 2023 August 4, 2023
Temperature / Humidity 24 deg.C, 51 %RH 23 deg.C, 49 %RH 26 deg.C, 43 %RH 20 deg.C, 62 %RH
Engineer Kouki Yamada Akihiro Oda Hiromasa Sato Hiromasa Sato
Mode (1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)
Tx 11ax-80 (OFDM), 6625 MHz

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	13250.000	PK	45.54	38.84	12.31	38.51	-9.54	48.64	73.9	25.2	150	0	Floor noise
Hori.	19875.000	PK	41.88	40.24	14.14	47.49	-9.54	39.23	73.9	34.6	150	0	Floor noise
Hori.	13250.000	AV	35.70	38.84	12.31	38.51	-9.54	38.80	53.9	15.1	150	0	Floor noise
Hori.	19875.000	AV	30.87	40.24	14.14	47.49	-9.54	28.22	53.9	25.6	150	0	Floor noise
Vert.	13250.000	PK	46.11	38.84	12.31	38.51	-9.54	49.21	73.9	24.6	150	0	Floor noise
Vert.	19875.000	PK	41.91	40.24	14.14	47.49	-9.54	39.26	73.9	34.6	150	0	Floor noise
Vert.	13250.000	AV	36.62	38.84	12.31	38.51	-9.54	39.72	53.9	14.1	150	0	Floor noise
Vert.	19875.000	AV	30.91	40.24	14.14	47.49	-9.54	28.26	53.9	25.6	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	26500.000	PK	45.27	40.40	16.44	46.82	0.00	-9.54	45.75	-49.48	-7.0	42.4	176	324	-
Hori.	26500.000	PK	58.32	43.19	16.48	67.38	0.00	-9.54	41.07	-54.16	-7.0	47.1	165	100	-
Hori.	33125.000	PK	53.12	43.69	18.76	64.13	0.00	-9.54	41.90	-53.33	-7.0	46.3	173	136	-
Hori.	26500.000	AV	34.74	40.40	16.44	46.82	0.22	-9.54	35.44	-59.79	-27.0	32.7	176	324	-
Hori.	26500.000	AV	49.59	43.19	16.48	67.38	0.22	-9.54	32.56	-62.67	-27.0	35.6	165	100	-
Hori.	33125.000	AV	42.98	43.69	18.76	64.13	0.22	-9.54	31.98	-63.25	-27.0	36.2	173	136	-
Vert.	26500.000	PK	45.22	40.40	16.44	46.82	0.00	-9.54	45.70	-49.53	-7.0	42.5	187	52	-
Vert.	26500.000	PK	58.85	43.19	16.48	67.38	0.00	-9.54	41.60	-53.63	-7.0	46.6	155	79	-
Vert.	33125.000	PK	52.88	43.69	18.76	64.13	0.00	-9.54	41.66	-53.57	-7.0	46.5	159	275	-
Vert.	26500.000	AV	37.37	40.40	16.44	46.82	0.22	-9.54	38.07	-57.16	-27.0	30.1	187	52	-
Vert.	26500.000	AV	50.05	43.19	16.48	67.38	0.22	-9.54	33.02	-62.21	-27.0	35.2	155	79	-
Vert.	33125.000	AV	44.33	43.69	18.76	64.13	0.22	-9.54	33.33	-61.90	-27.0	34.9	159	275	-

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	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ax-80 (OFDM), 6705 MHz			

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	20115.000	PK	42.55	40.18	14.21	47.39	-9.54	40.01	73.9	33.8	150	0	Floor noise
Hori.	20115.000	AV	34.12	40.18	14.21	47.39	-9.54	31.58	53.9	22.3	150	0	Floor noise
Vert.	20115.000	PK	42.50	40.18	14.21	47.39	-9.54	39.96	73.9	33.9	150	0	Floor noise
Vert.	20115.000	AV	34.05	40.18	14.21	47.39	-9.54	31.51	53.9	22.3	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13410.000	PK	45.28	39.01	12.37	38.87	0.00	-9.54	48.25	-46.98	-7.0	39.9	150	0	Floor noise
Hori.	26820.000	PK	55.94	43.22	16.59	67.00	0.00	-9.54	39.21	-56.02	-7.0	49.0	195	124	-
Hori.	33525.000	PK	52.76	43.60	18.87	65.26	0.00	-9.54	40.43	-54.80	-7.0	47.8	180	135	-
Hori.	13410.000	AV	36.95	39.01	12.37	38.87	0.00	-9.54	39.92	-55.31	-27.0	28.3	150	0	Floor noise
Hori.	26820.000	AV	47.93	43.22	16.59	67.00	0.22	-9.54	31.42	-63.81	-27.0	36.8	195	124	-
Hori.	33525.000	AV	42.72	43.60	18.87	65.26	0.22	-9.54	30.61	-64.62	-27.0	37.6	180	135	-
Vert.	13410.000	PK	46.84	39.01	12.37	38.87	0.00	-9.54	49.81	-45.42	-7.0	38.4	150	0	Floor noise
Vert.	26820.000	PK	56.46	43.22	16.59	67.00	0.00	-9.54	39.73	-55.50	-7.0	48.5	157	322	-
Vert.	33525.000	PK	52.49	43.60	18.87	65.26	0.00	-9.54	40.16	-55.07	-7.0	48.0	149	73	-
Vert.	13410.000	AV	37.04	39.01	12.37	38.87	0.00	-9.54	40.01	-55.22	-27.0	28.2	150	0	Floor noise
Vert.	26820.000	AV	48.57	43.22	16.59	67.00	0.22	-9.54	32.06	-63.17	-27.0	36.1	157	322	-
Vert.	33525.000	AV	45.39	43.60	18.87	65.26	0.22	-9.54	33.28	-61.95	-27.0	34.9	149	73	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6865 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	20595.000	PK	44.01	40.12	14.34	46.71	-9.54	42.22	73.9	31.6	150	0	Floor noise
Hori.	20595.000	AV	34.44	40.12	14.34	46.71	-9.54	32.65	53.9	21.2	150	0	Floor noise
Vert.	20595.000	PK	43.94	40.12	14.34	46.71	-9.54	42.15	73.9	31.7	150	0	Floor noise
Vert.	20595.000	AV	34.22	40.12	14.34	46.71	-9.54	32.43	53.9	21.4	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13730.000	PK	44.66	39.06	12.58	38.95	0.00	-9.54	47.81	-47.42	-7.0	40.4	150	0	Floor noise
Hori.	27460.000	PK	58.39	43.50	16.87	68.87	0.00	-9.54	40.35	-54.88	-7.0	47.8	182	156	-
Hori.	13730.000	AV	36.11	39.06	12.58	38.95	0.00	-9.54	39.26	-55.97	-27.0	28.9	150	0	Floor noise
Hori.	27460.000	AV	48.88	43.50	16.87	68.87	0.22	-9.54	31.06	-64.17	-27.0	37.1	182	156	-
Vert.	13730.000	PK	45.51	39.06	12.58	38.95	0.00	-9.54	48.66	-46.57	-7.0	39.5	150	0	Floor noise
Vert.	27460.000	PK	60.24	43.50	16.87	68.87	0.00	-9.54	42.20	-53.03	-7.0	46.0	160	230	-
Vert.	13730.000	AV	35.76	39.06	12.58	38.95	0.00	-9.54	38.91	-56.32	-27.0	29.3	150	0	Floor noise
Vert.	27460.000	AV	52.08	43.50	16.87	68.87	0.22	-9.54	34.26	-60.97	-27.0	33.9	160	230	-

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 6945 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	20835.000	PK	44.83	40.12	14.44	46.89	-9.54	42.96	73.9	30.9	150	0	Floor noise
Hori.	20835.000	AV	34.52	40.12	14.44	46.89	-9.54	32.65	53.9	21.2	150	0	Floor noise
Vert.	20835.000	PK	44.91	40.12	14.44	46.89	-9.54	43.04	73.9	30.8	150	0	Floor noise
Vert.	20835.000	AV	34.61	40.12	14.44	46.89	-9.54	32.74	53.9	21.1	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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.	13890.000	PK	46.37	38.99	12.70	38.86	0.00	-9.54	49.66	-45.57	-7.0	38.5	150	0	Floor noise
Hori.	27780.000	PK	58.64	43.61	17.00	69.03	0.00	-9.54	40.68	-54.55	-7.0	47.5	180	81	-
Hori.	13890.000	AV	35.83	38.99	12.70	38.86	0.00	-9.54	39.12	-56.11	-27.0	29.1	150	0	Floor noise
Hori.	27780.000	AV	50.82	43.61	17.00	69.03	0.22	-9.54	33.08	-62.15	-27.0	35.1	180	81	-
Vert.	13890.000	PK	45.82	38.99	12.70	38.86	0.00	-9.54	49.11	-46.12	-7.0	39.1	150	0	Floor noise
Vert.	27780.000	PK	60.09	43.61	17.00	69.03	0.00	-9.54	42.13	-53.10	-7.0	46.1	160	232	-
Vert.	13890.000	AV	36.71	38.99	12.70	38.86	0.00	-9.54	40.00	-55.23	-27.0	28.2	150	0	Floor noise
Vert.	27780.000	AV	52.96	43.61	17.00	69.03	0.22	-9.54	35.22	-60.01	-27.0	33.0	160	232	-

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 : $20\log(3.995\text{ m} / 3.0\text{ m}) = 2.49\text{ dB}$

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	SAC 3	SAC 1	SAC 2	SAC 2
Date	July 28, 2023	August 1, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	24 deg.C, 51 %RH	23 deg.C, 49 %RH	26 deg.C, 43 %RH	20 deg.C, 62 %RH
Engineer	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(1 GHz -10 GHz) Tx 11ax-80 (OFDM), 7025 MHz	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)

(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.	21075.000	PK	43.56	40.14	14.54	47.05	-9.54	41.65	73.9	32.2	150	0	Floor noise
Hori.	21075.000	AV	33.75	40.14	14.54	47.05	-9.54	31.84	53.9	22.0	150	0	Floor noise
Vert.	21075.000	PK	43.79	40.14	14.54	47.05	-9.54	41.88	73.9	32.0	150	0	Floor noise
Vert.	21075.000	AV	33.81	40.14	14.54	47.05	-9.54	31.90	53.9	22.0	150	0	Floor noise

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 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.	7125.000	PK	50.97	37.00	17.92	43.29	0.00	2.49	65.09	-30.14	-7.0	23.1	131	51	-
Hori.	14050.000	PK	45.91	38.89	12.80	38.81	0.00	-9.54	49.25	-45.98	-7.0	38.9	150	0	Floor noise
Hori.	28100.000	PK	58.67	43.66	17.15	68.72	0.00	-9.54	41.22	-54.01	-7.0	47.0	183	80	-
Hori.	7125.000	AV	39.91	37.00	17.92	43.29	0.22	2.49	54.25	-40.98	-27.0	13.9	131	51	-
Hori.	14050.000	AV	35.72	38.89	12.80	38.81	0.00	-9.54	39.06	-56.17	-27.0	29.1	150	0	Floor noise
Hori.	28100.000	AV	50.88	43.66	17.15	68.72	0.22	-9.54	33.65	-61.58	-27.0	34.5	183	80	-
Vert.	7125.000	PK	50.25	37.00	17.92	43.29	0.00	2.49	64.37	-30.86	-7.0	23.8	145	39	-
Vert.	14050.000	PK	46.73	38.89	12.80	38.81	0.00	-9.54	50.07	-45.16	-7.0	38.1	150	0	Floor noise
Vert.	28100.000	PK	59.37	43.66	17.15	68.72	0.00	-9.54	41.92	-53.31	-7.0	46.3	159	233	-
Vert.	7125.000	AV	39.96	37.00	17.92	43.29	0.22	2.49	54.30	-40.93	-27.0	13.9	145	39	-
Vert.	14050.000	AV	36.88	38.89	12.80	38.81	0.00	-9.54	40.22	-55.01	-27.0	28.0	150	0	Floor noise
Vert.	28100.000	AV	52.86	43.66	17.15	68.72	0.22	-9.54	35.63	-59.60	-27.0	32.6	159	233	-

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)

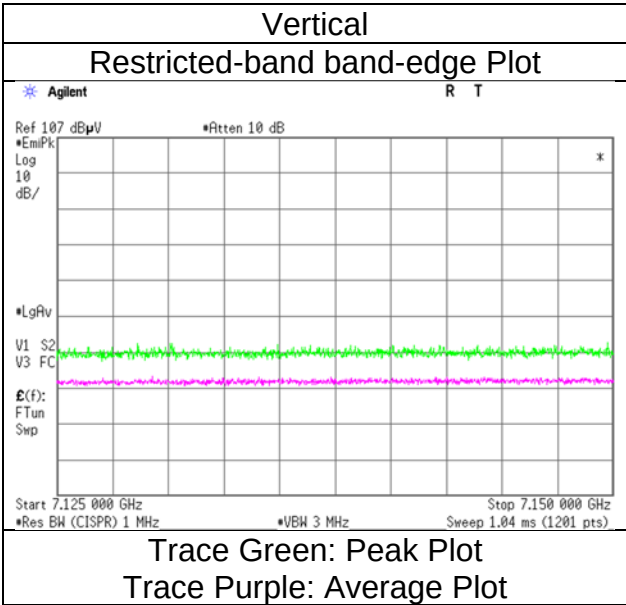
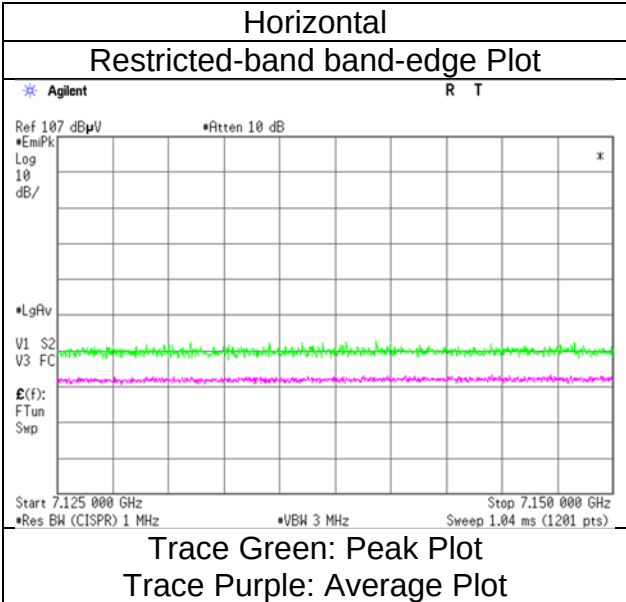
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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

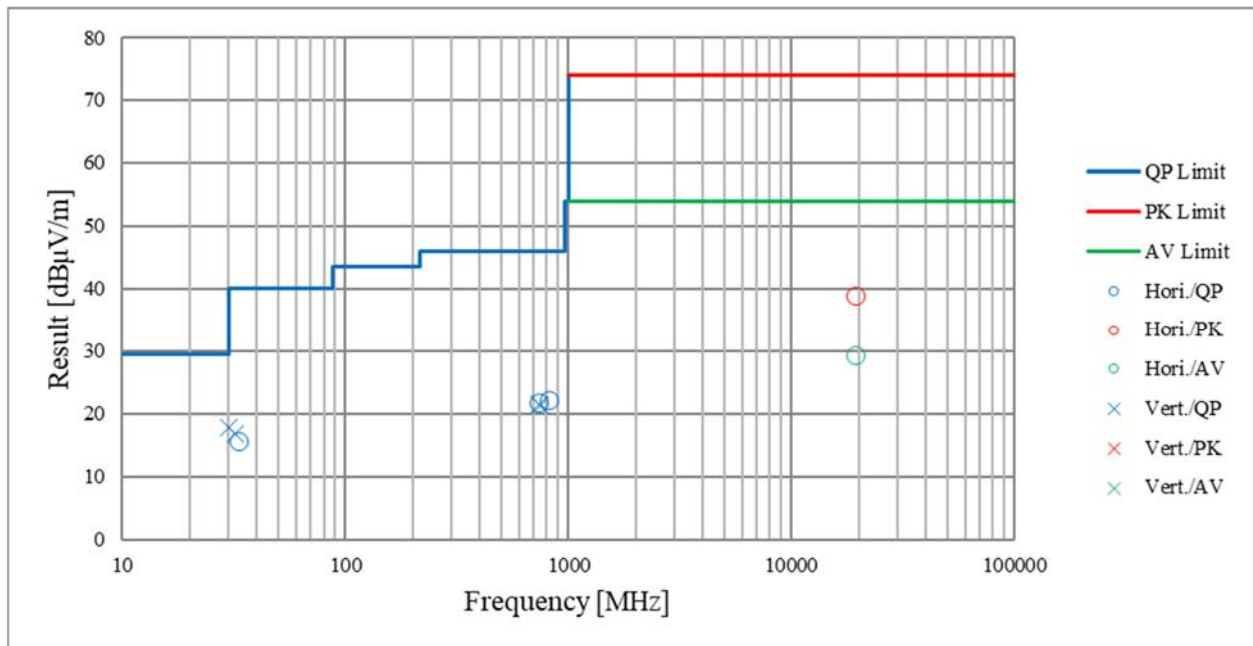
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	SAC 3
Date	July 28, 2023
Temperature / Humidity	24 deg.C, 51 %RH
Engineer	Kouki Yamada
Mode	Tx 11ax-80 (OFDM), 7025 MHz



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

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

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	SAC 3	SAC 3	SAC 2	SAC 1	2
Date	October 20, 2023	July 28, 2023	July 31, 2023	August 2, 2023	August 4, 2023
Temperature / Humidity	23 deg.C, 44 %RH	24 deg.C, 51 %RH	22 deg.C, 45 %RH	26 deg.C, 70 %RH	22 deg.C, 64 %RH
Engineer	Hiromasa Sato	Kouki Yamada	Akihiro Oda	Hiromasa Sato	Hiromasa Sato
Mode	(30 MHz -1 GHz) Tx 11ax-40 (OFDM), 6445 MHz	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)



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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber SAC 3
Date October 3, 2023
Temperature / Humidity 24 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 5955 MHz

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	50.04	33.06	17.20	43.38	0.00	2.49	59.41	-35.82	-7.0	28.8	104	103	-
Hori.	5925.000	AV	38.32	33.06	17.20	43.38	0.00	2.49	47.69	-47.54	-27.0	20.5	104	103	-
Vert.	5925.000	PK	49.56	33.06	17.20	43.38	0.00	2.49	58.93	-36.30	-7.0	29.3	220	232	-
Vert.	5925.000	AV	38.47	33.06	17.20	43.38	0.00	2.49	47.84	-47.39	-27.0	20.3	220	232	-

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)

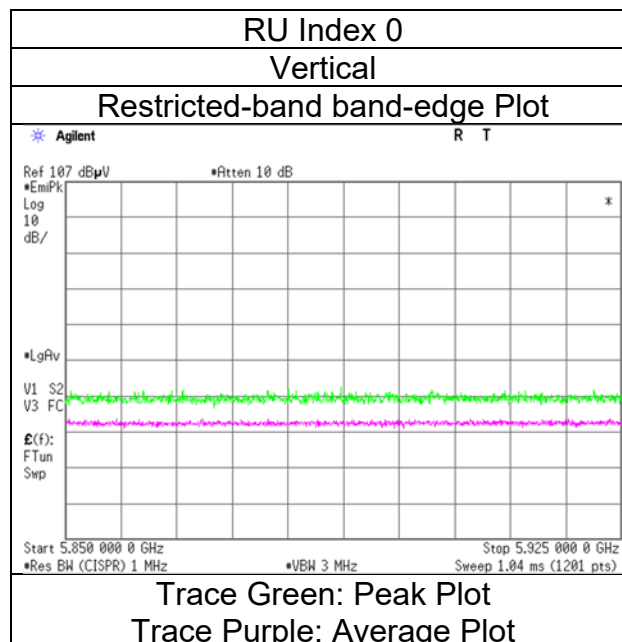
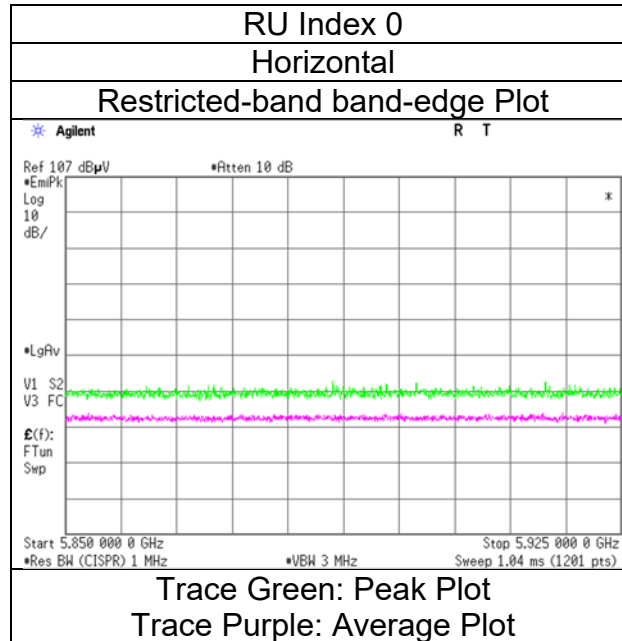
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	October 3, 2023
Temperature / Humidity	24 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 5955 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 5955 MHz

RU Index 37

(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	49.78	33.06	17.20	43.38	0.00	2.49	59.15	-36.08	-7.0	29.0	132	104	-
Hori.	5925.000	AV	40.10	33.06	17.20	43.38	0.00	2.49	49.47	-45.76	-27.0	18.7	132	104	-
Vert.	5925.000	PK	50.10	33.06	17.20	43.38	0.00	2.49	59.47	-35.76	-7.0	28.7	212	220	-
Vert.	5925.000	AV	41.22	33.06	17.20	43.38	0.00	2.49	50.59	-44.64	-27.0	17.6	212	220	-

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).

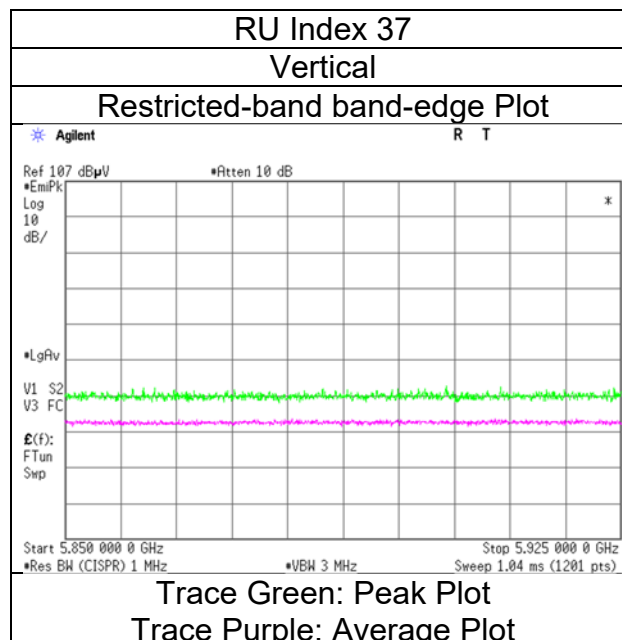
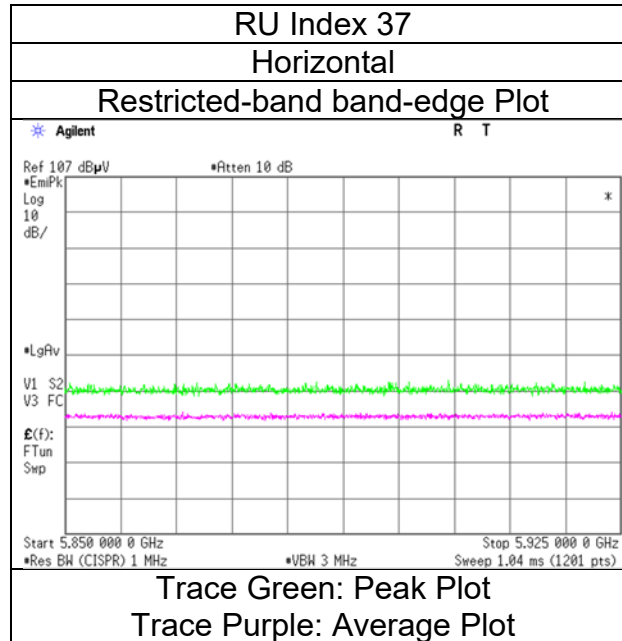
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
September 29, 2023
21 deg. C / 51 % RH
Shiro Kobayashi
Tx 11ax-20 (OFDMA) 52-tone RU, 5955 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 5955 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	50.51	33.06	17.24	43.38	0.00	2.49	59.92	-35.31	-7.0	28.3	131	105	-
Hori.	5925.000	AV	41.48	33.06	17.24	43.38	0.00	2.49	50.89	-44.34	-27.0	17.3	131	105	-
Vert.	5925.000	PK	50.17	33.06	17.24	43.38	0.00	2.49	59.58	-35.65	-7.0	28.6	234	228	-
Vert.	5925.000	AV	41.22	33.06	17.24	43.38	0.00	2.49	50.63	-44.60	-27.0	17.6	234	228	-

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).

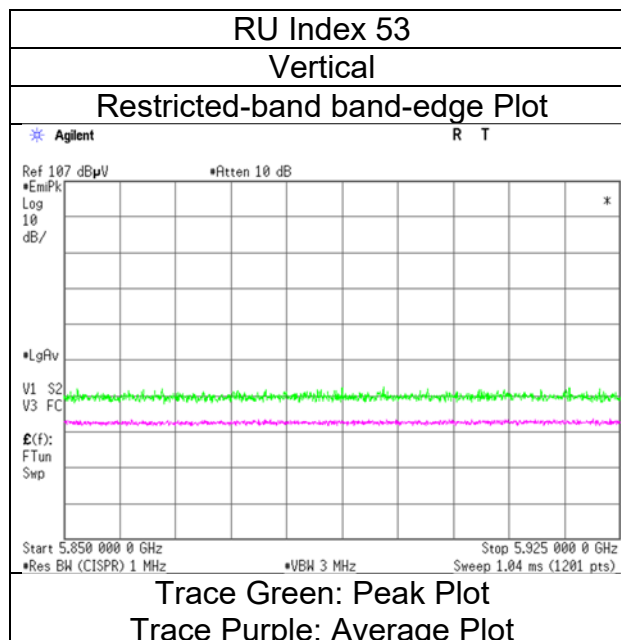
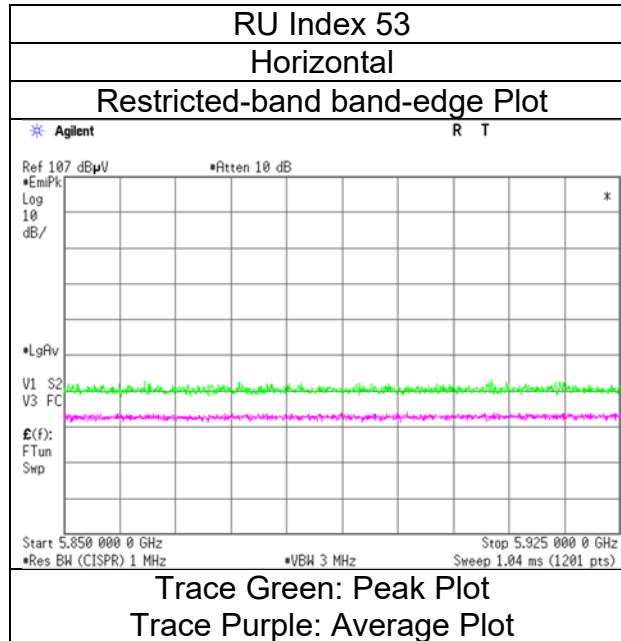
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
September 29, 2023
21 deg. C / 51 % RH
Shiro Kobayashi
Tx 11ax-20 (OFDMA) 106-tone RU, 5955 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5955 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	50.02	33.06	17.24	43.38	0.00	2.49	59.43	-35.80	-7.0	28.8	330	354	-
Hori.	5925.000	AV	41.64	33.06	17.24	43.38	0.00	2.49	51.05	-44.18	-27.0	17.1	330	354	-
Vert.	5925.000	PK	50.20	33.06	17.24	43.38	0.00	2.49	59.61	-35.62	-7.0	28.6	130	227	-
Vert.	5925.000	AV	41.48	33.06	17.24	43.38	0.00	2.49	50.89	-44.34	-27.0	17.3	130	227	-

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)

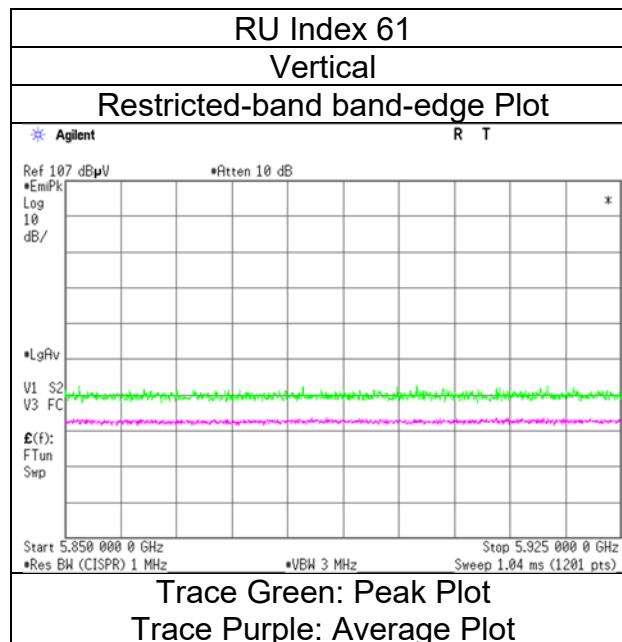
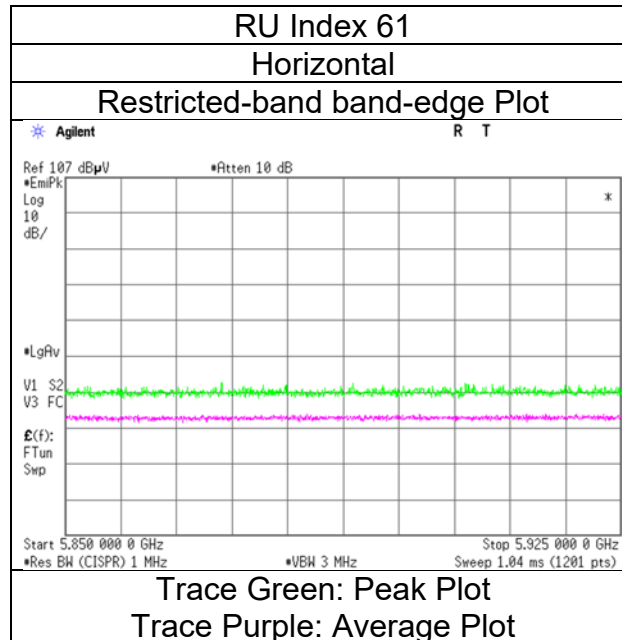
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	September 29, 2023
Temperature / Humidity	21 deg. C / 51 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 5955 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 October 3, 2023
Temperature / Humidity 24 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 26-tone RU, 7095 MHz

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	49.84	37.00	17.89	43.29	0.00	2.49	63.93	-31.30	-7.0	24.3	330	18	-
Hori.	7125.000	AV	38.98	37.00	17.89	43.29	0.00	2.49	53.07	-42.16	-27.0	15.1	330	18	-
Vert.	7125.000	PK	50.26	37.00	17.89	43.29	0.00	2.49	64.35	-30.88	-7.0	23.8	134	320	-
Vert.	7125.000	AV	38.66	37.00	17.89	43.29	0.00	2.49	52.75	-42.48	-27.0	15.4	134	320	-

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)

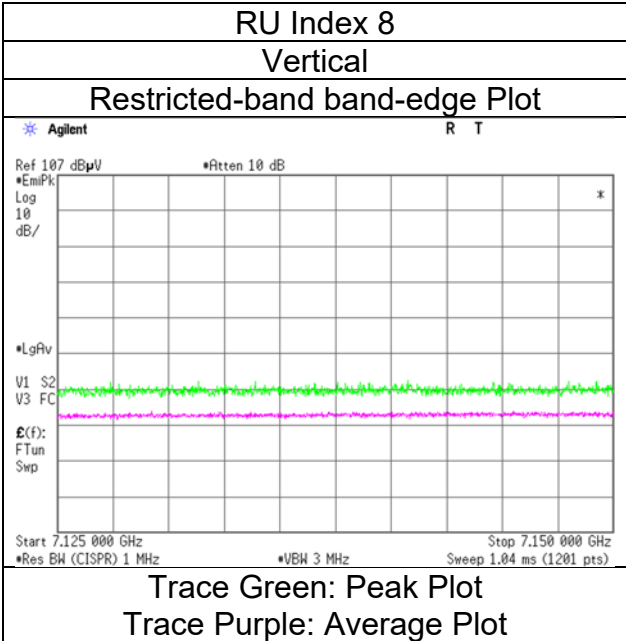
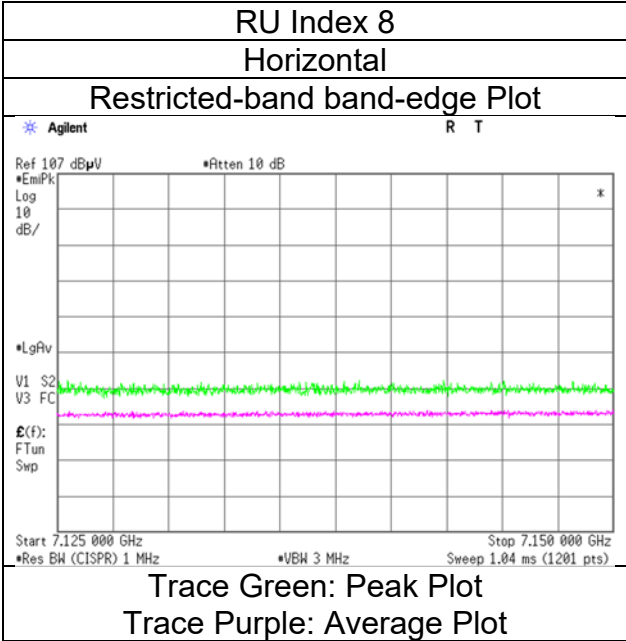
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	October 3, 2023
Temperature / Humidity	24 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-20 (OFDMA) 26-tone RU, 7095 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 52-tone RU, 7095 MHz

RU Index 40

(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	50.34	37.00	17.92	43.29	0.00	2.49	64.46	-30.77	-7.0	23.7	286	54	-
Hori.	7125.000	AV	41.19	37.00	17.92	43.29	0.00	2.49	55.31	-39.92	-27.0	12.9	286	54	-
Vert.	7125.000	PK	50.62	37.00	17.92	43.29	0.00	2.49	64.74	-30.49	-7.0	23.4	174	286	-
Vert.	7125.000	AV	40.21	37.00	17.92	43.29	0.00	2.49	54.33	-40.90	-27.0	13.9	174	286	-

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).

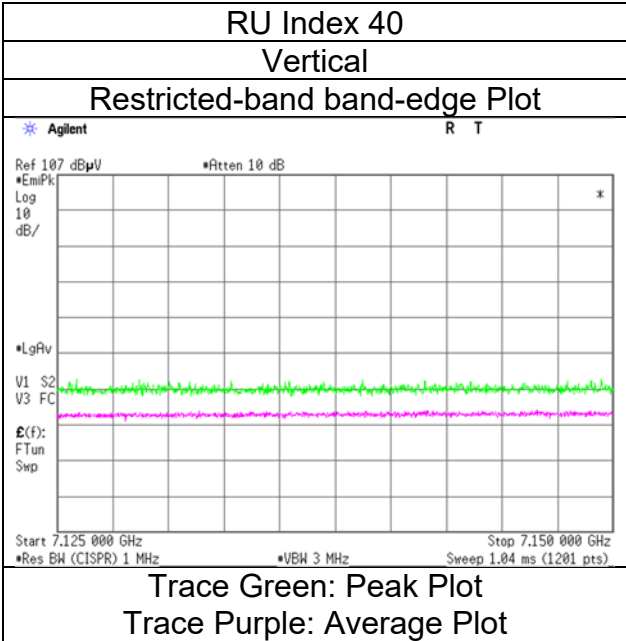
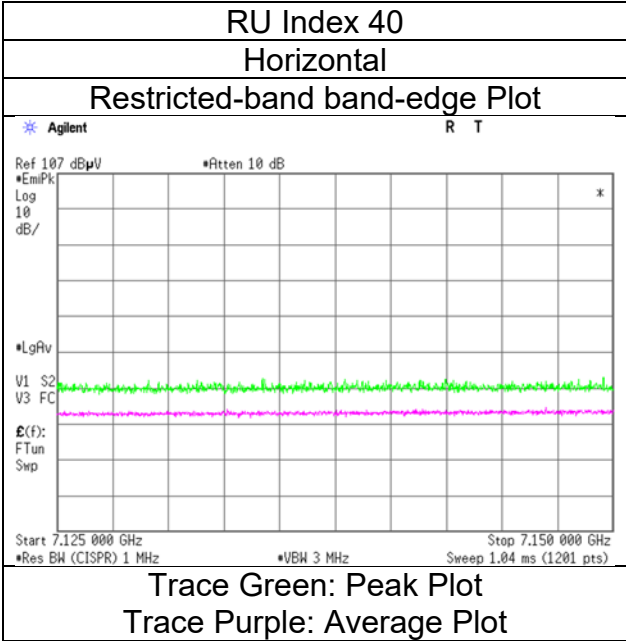
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
September 29, 2023
21 deg. C / 51 % RH
Shiro Kobayashi
Tx 11ax-20 (OFDMA) 52-tone RU, 7095 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 106-tone RU, 7095 MHz

RU Index 54

(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	50.41	37.00	17.92	43.29	0.00	2.49	64.53	-30.70	-7.0	23.7	295	43	-
Hori.	7125.000	AV	41.35	37.00	17.92	43.29	0.00	2.49	55.47	-39.76	-27.0	12.7	295	43	-
Vert.	7125.000	PK	50.48	37.00	17.92	43.29	0.00	2.49	64.60	-30.63	-7.0	23.6	163	295	-
Vert.	7125.000	AV	42.02	37.00	17.92	43.29	0.00	2.49	56.14	-39.09	-27.0	12.0	163	295	-

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.

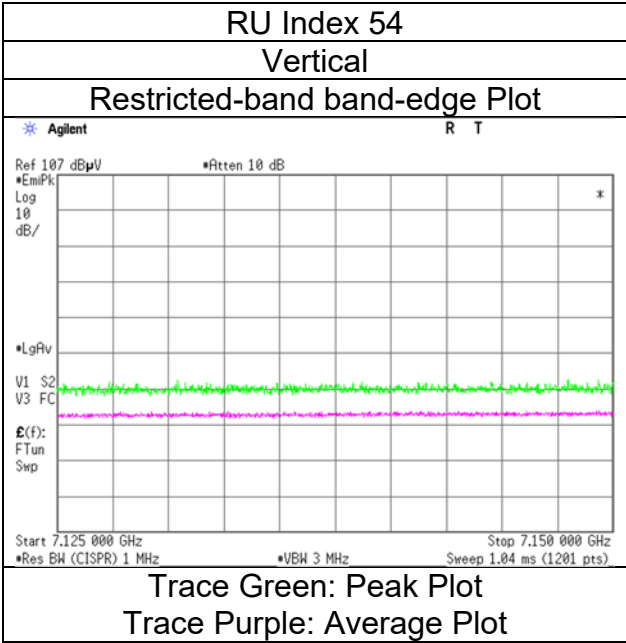
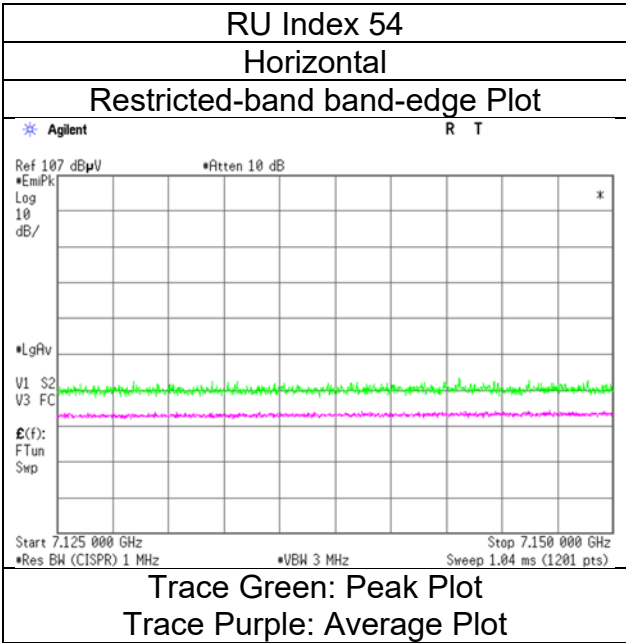
SAC 3

September 29, 2023

21 deg. C / 51 % RH

Shiro Kobayashi

Tx 11ax-20 (OFDMA) 106-tone RU, 7095 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 September 29, 2023
Temperature / Humidity 21 deg. C / 51 % RH
Engineer Shiro Kobayashi
 (1 GHz -8 GHz)
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 7095 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.	7125.000	PK	50.66	37.00	17.92	43.29	0.00	2.49	64.78	-30.45	-7.0	23.4	285	52	-
Hori.	7125.000	AV	41.22	37.00	17.92	43.29	0.00	2.49	55.34	-39.89	-27.0	12.8	285	52	-
Vert.	7125.000	PK	50.20	37.00	17.92	43.29	0.00	2.49	64.32	-30.91	-7.0	23.9	163	296	-
Vert.	7125.000	AV	41.36	37.00	17.92	43.29	0.00	2.49	55.48	-39.75	-27.0	12.7	163	296	-

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)

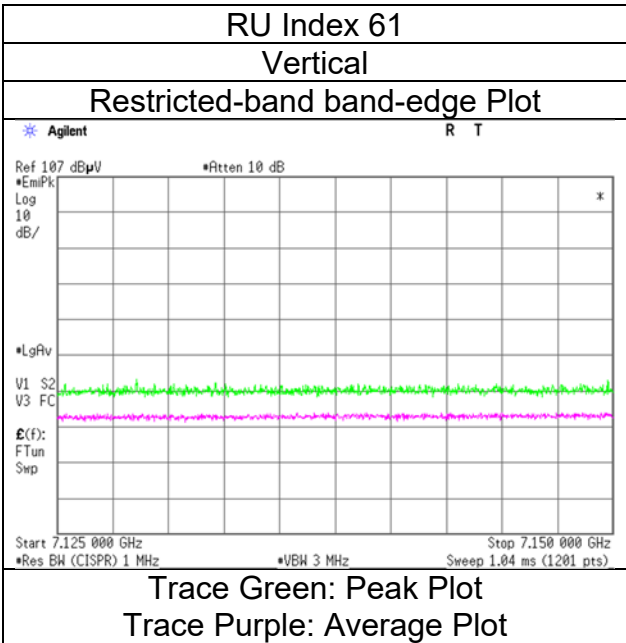
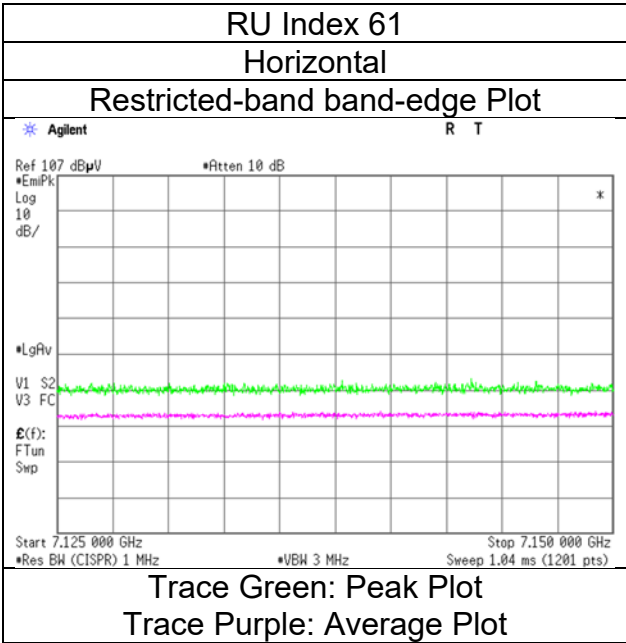
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	September 29, 2023
Temperature / Humidity	21 deg. C / 51 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ax-20 (OFDMA) 242-tone RU, 7095 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5965 MHz

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 (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	47.87	33.06	17.00	43.38	0.00	2.49	57.04	-38.19	-7.0	31.1	155	252	-
Hori.	5925.000	AV	39.15	33.06	17.00	43.38	0.00	2.49	48.32	-46.91	-27.0	19.9	155	252	-
Vert.	5925.000	PK	48.74	33.06	17.00	43.38	0.00	2.49	57.91	-37.32	-7.0	30.3	177	249	-
Vert.	5925.000	AV	39.61	33.06	17.00	43.38	0.00	2.49	48.78	-46.45	-27.0	19.4	177	249	-

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).

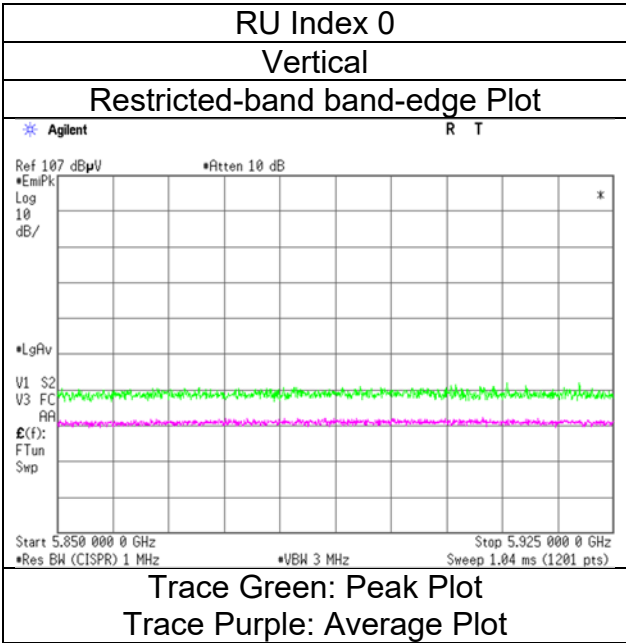
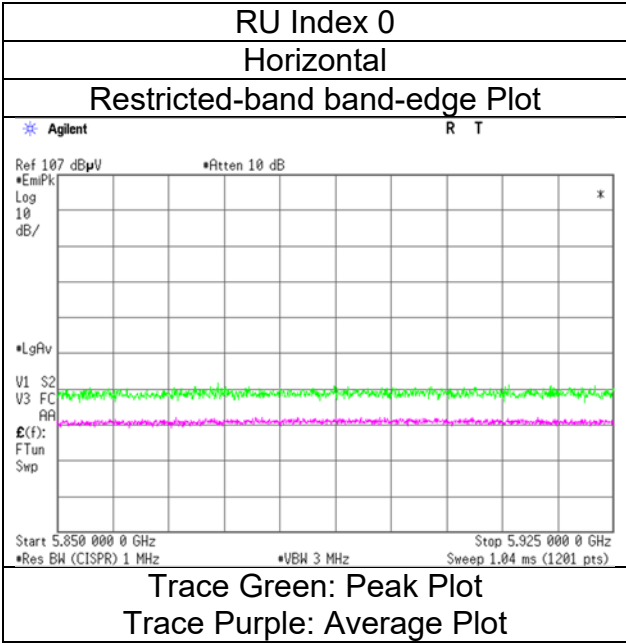
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 26-tone RU, 5965 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5965 MHz

RU Index 37

(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	48.29	33.06	17.00	43.38	0.00	2.49	57.46	-37.77	-7.0	30.7	123	65	-
Hori.	5925.000	AV	38.26	33.06	17.00	43.38	0.00	2.49	47.43	-47.80	-27.0	20.8	123	65	-
Vert.	5925.000	PK	48.69	33.06	17.00	43.38	0.00	2.49	57.86	-37.37	-7.0	30.3	169	246	-
Vert.	5925.000	AV	38.53	33.06	17.00	43.38	0.00	2.49	47.70	-47.53	-27.0	20.5	169	246	-

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).

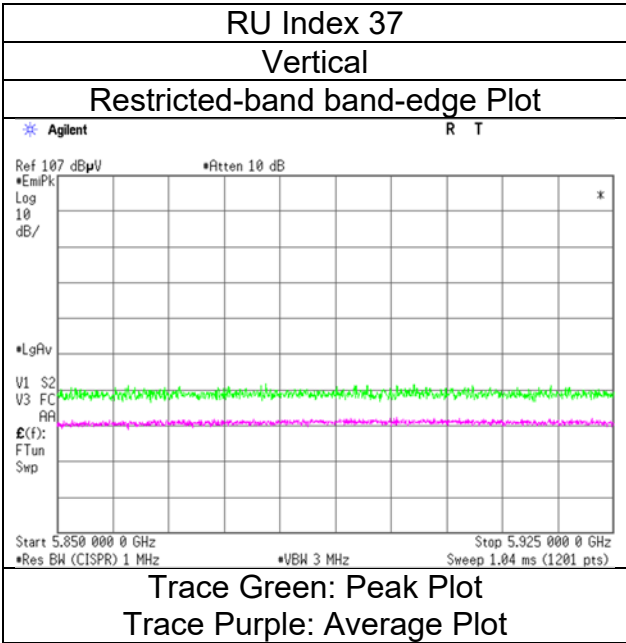
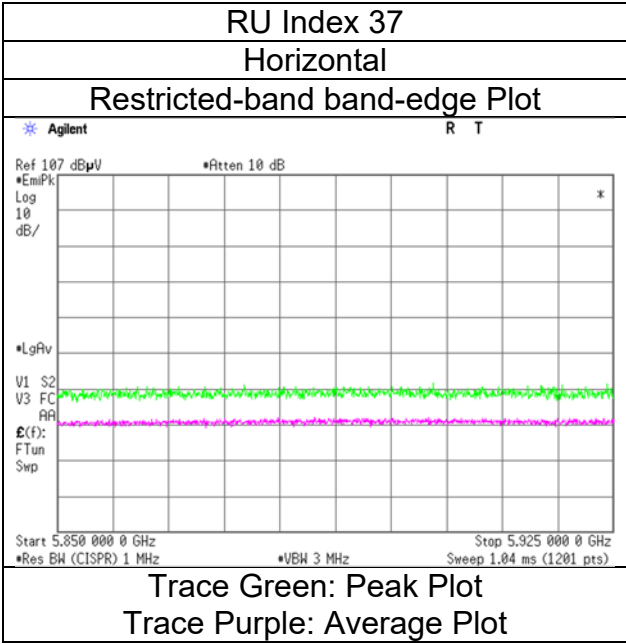
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 52-tone RU, 5965 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 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	49.45	33.06	17.00	43.38	0.00	2.49	58.62	-36.61	-7.0	29.6	162	36	-
Hori.	5925.000	AV	39.34	33.06	17.00	43.38	0.00	2.49	48.51	-46.72	-27.0	19.7	162	36	-
Vert.	5925.000	PK	48.69	33.06	17.00	43.38	0.00	2.49	57.86	-37.37	-7.0	30.3	180	252	-
Vert.	5925.000	AV	38.97	33.06	17.00	43.38	0.00	2.49	48.14	-47.09	-27.0	20.0	180	252	-

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).

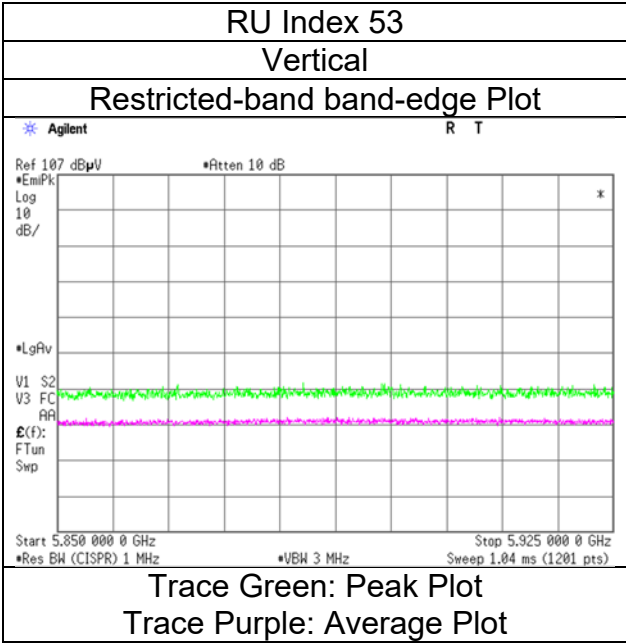
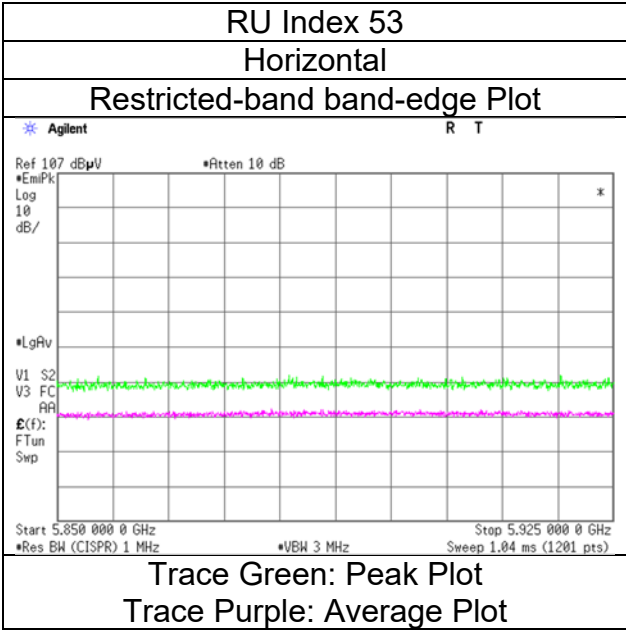
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5965 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	48.97	33.06	17.00	43.38	0.00	2.49	58.14	-37.09	-7.0	30.0	189	250	-
Hori.	5925.000	AV	39.38	33.06	17.00	43.38	0.00	2.49	48.55	-46.68	-27.0	19.6	189	250	-
Vert.	5925.000	PK	48.67	33.06	17.00	43.38	0.00	2.49	57.84	-37.39	-7.0	30.3	173	250	-
Vert.	5925.000	AV	38.97	33.06	17.00	43.38	0.00	2.49	48.14	-47.09	-27.0	20.0	173	250	-

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).

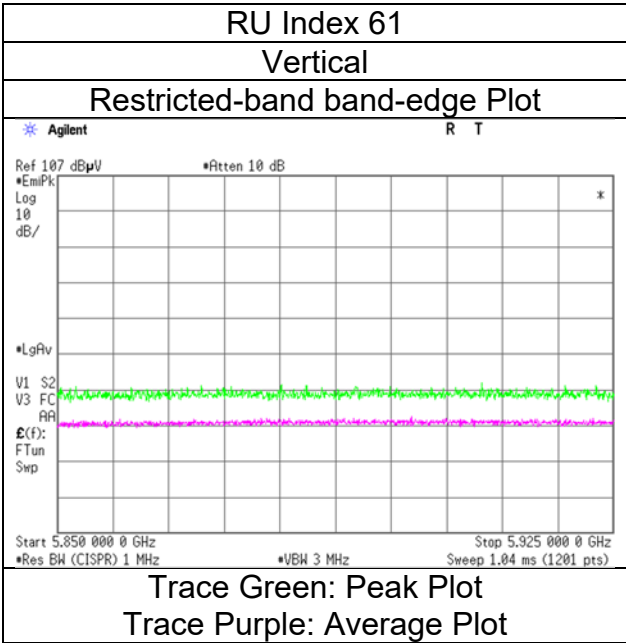
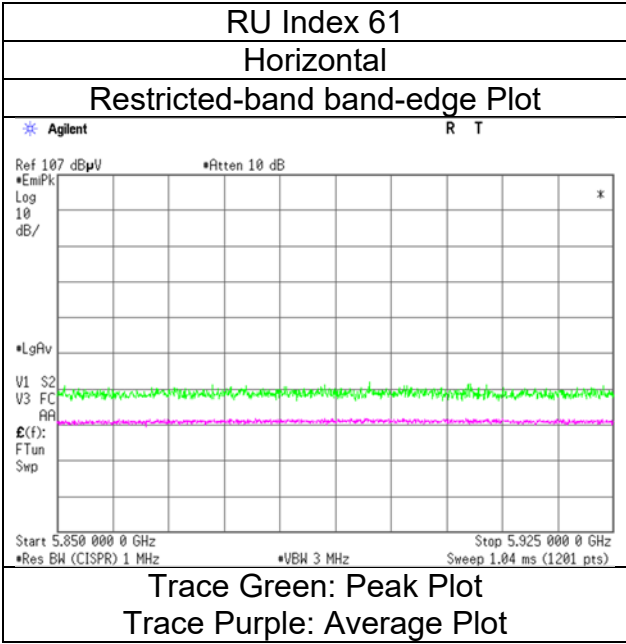
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 242-tone RU, 5965 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 October 3, 2023
Temperature / Humidity 24 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 5965 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	49.92	33.06	17.20	43.38	0.00	2.49	59.29	-35.94	-7.0	28.9	127	252	-
Hori.	5925.000	AV	38.59	33.06	17.20	43.38	0.00	2.49	47.96	-47.27	-27.0	20.2	127	252	-
Vert.	5925.000	PK	50.39	33.06	17.20	43.38	0.00	2.49	59.76	-35.47	-7.0	28.4	129	232	-
Vert.	5925.000	AV	38.72	33.06	17.20	43.38	0.00	2.49	48.09	-47.14	-27.0	20.1	129	232	-

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).

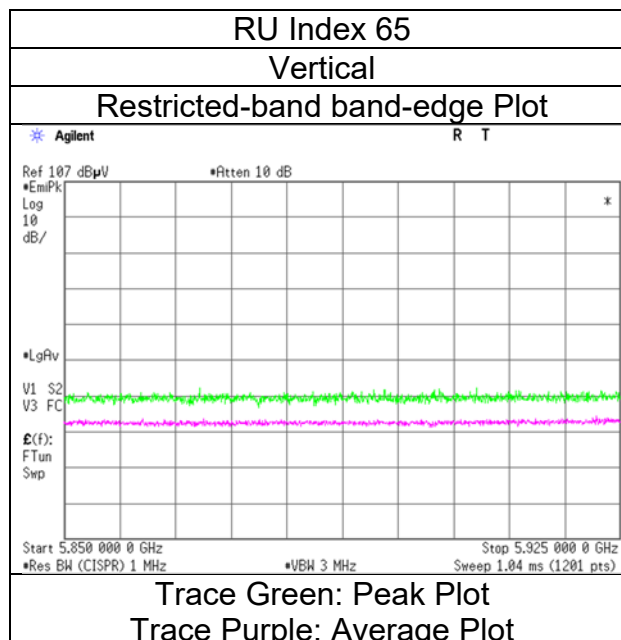
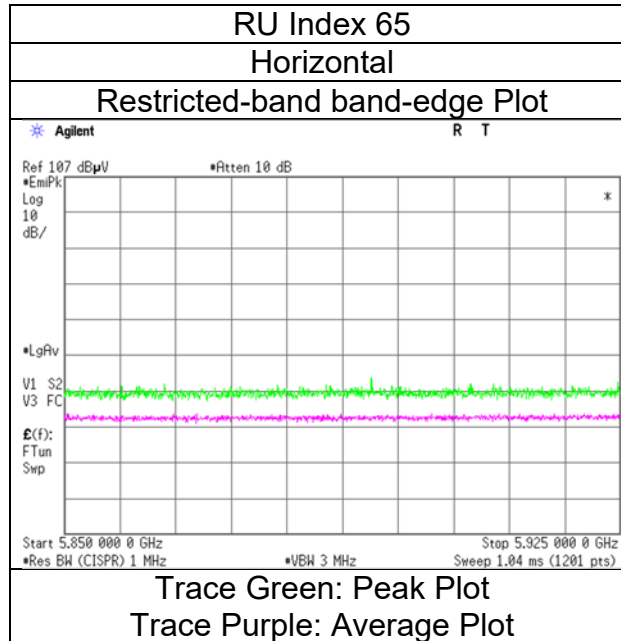
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
October 3, 2023
24 deg. C / 40 % RH
Yohsuke Matsuzawa
Tx 11ax-40 (OFDMA) 484-tone RU, 5965 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz

RU Index 17

(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	48.09	37.00	17.71	43.29	0.00	2.49	62.00	-33.23	-7.0	26.2	171	108	-
Hori.	7125.000	AV	38.27	37.00	17.71	43.29	0.00	2.49	52.18	-43.05	-27.0	16.0	171	108	-
Vert.	7125.000	PK	48.88	37.00	17.71	43.29	0.00	2.49	62.79	-32.44	-7.0	25.4	169	1	-
Vert.	7125.000	AV	38.42	37.00	17.71	43.29	0.00	2.49	52.33	-42.90	-27.0	15.9	169	1	-

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).

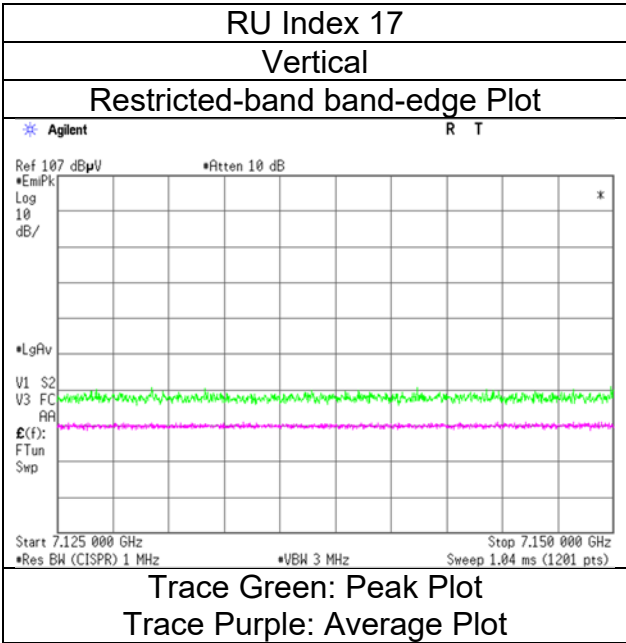
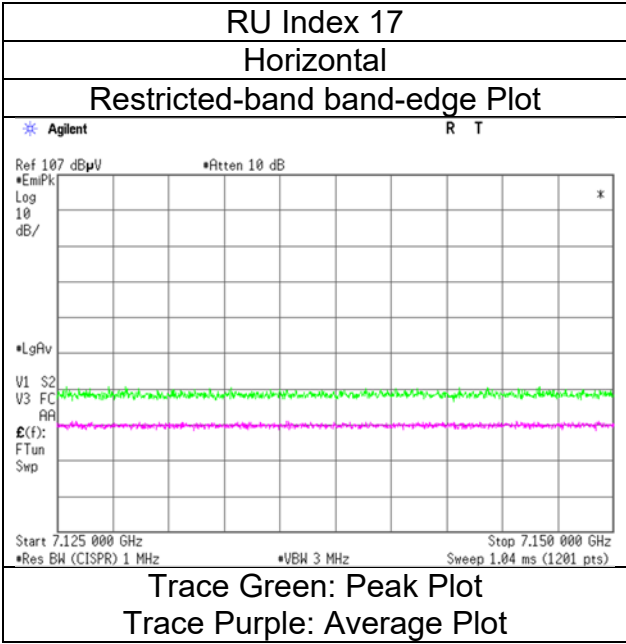
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 26-tone RU, 7085 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz

RU Index 44

(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	48.04	37.00	17.71	43.29	0.00	2.49	61.95	-33.28	-7.0	26.2	188	124	-
Hori.	7125.000	AV	38.55	37.00	17.71	43.29	0.00	2.49	52.46	-42.77	-27.0	15.7	188	124	-
Vert.	7125.000	PK	48.68	37.00	17.71	43.29	0.00	2.49	62.59	-32.64	-7.0	25.6	147	350	-
Vert.	7125.000	AV	38.39	37.00	17.71	43.29	0.00	2.49	52.30	-42.93	-27.0	15.9	147	350	-

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)

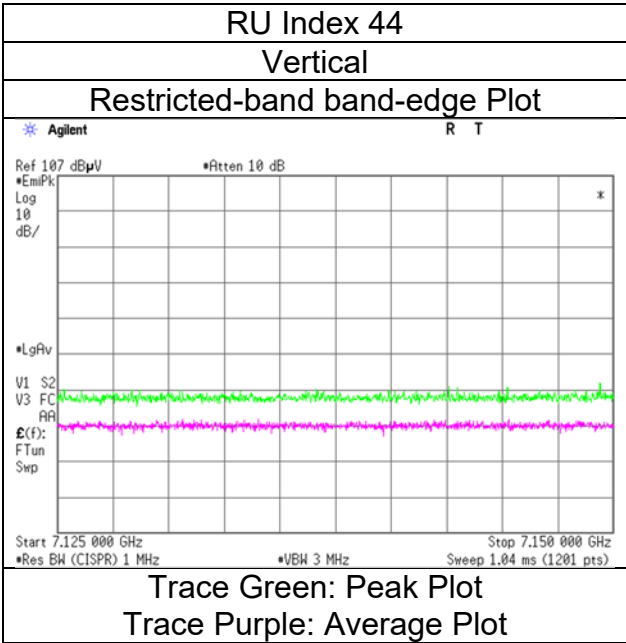
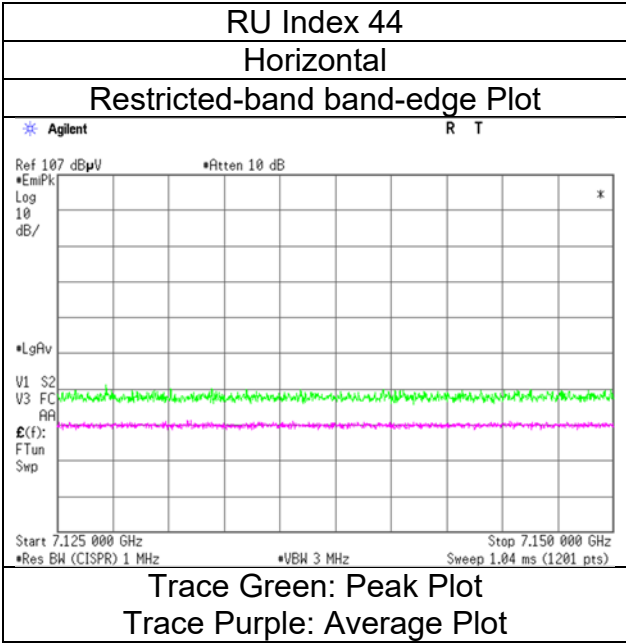
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 12, 2024
Temperature / Humidity	21 deg. C / 31 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-40 (OFDMA) 52-tone RU, 7085 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 MHz

RU Index 56

(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	48.88	37.00	17.71	43.29	0.00	2.49	62.79	-32.44	-7.0	25.4	137	57	-
Hori.	7125.000	AV	38.39	37.00	17.71	43.29	0.00	2.49	52.30	-42.93	-27.0	15.9	137	57	-
Vert.	7125.000	PK	49.02	37.00	17.71	43.29	0.00	2.49	62.93	-32.30	-7.0	25.3	174	31	-
Vert.	7125.000	AV	38.40	37.00	17.71	43.29	0.00	2.49	52.31	-42.92	-27.0	15.9	174	31	-

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).

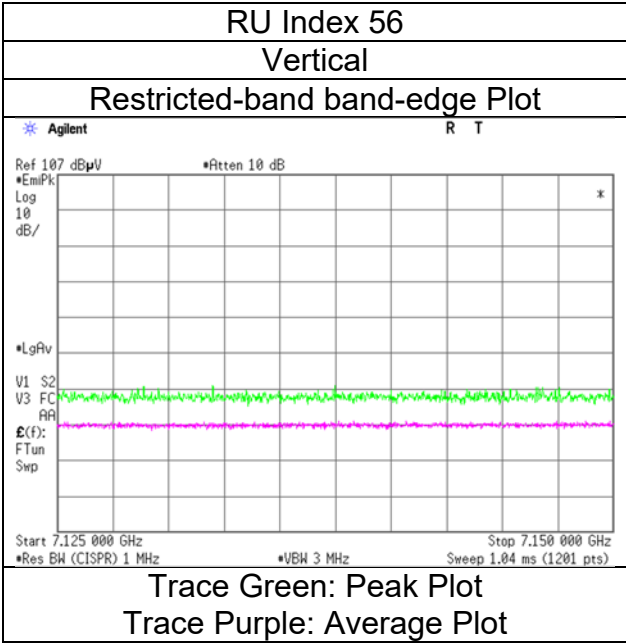
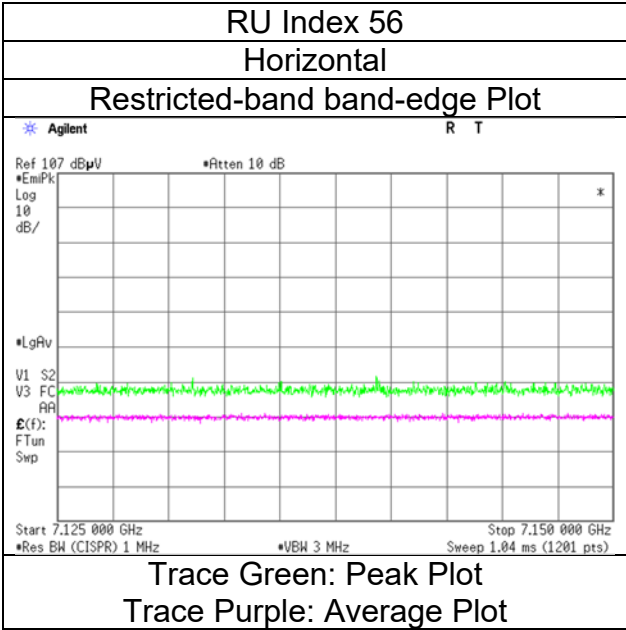
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 7085 MHz

RU Index 62

(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	47.18	37.00	17.71	43.29	0.00	2.49	61.09	-34.14	-7.0	27.1	163	127	-
Hori.	7125.000	AV	38.64	37.00	17.71	43.29	0.00	2.49	52.55	-42.68	-27.0	15.6	163	127	-
Vert.	7125.000	PK	48.29	37.00	17.71	43.29	0.00	2.49	62.20	-33.03	-7.0	26.0	175	226	-
Vert.	7125.000	AV	38.43	37.00	17.71	43.29	0.00	2.49	52.34	-42.89	-27.0	15.8	175	226	-

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).

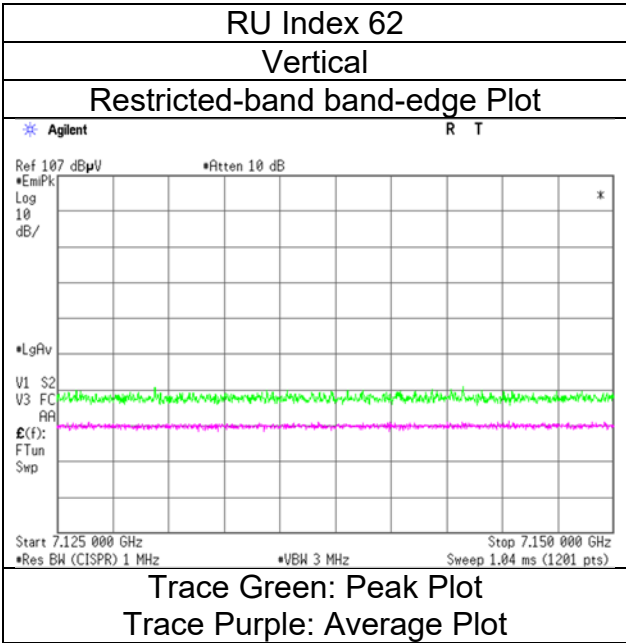
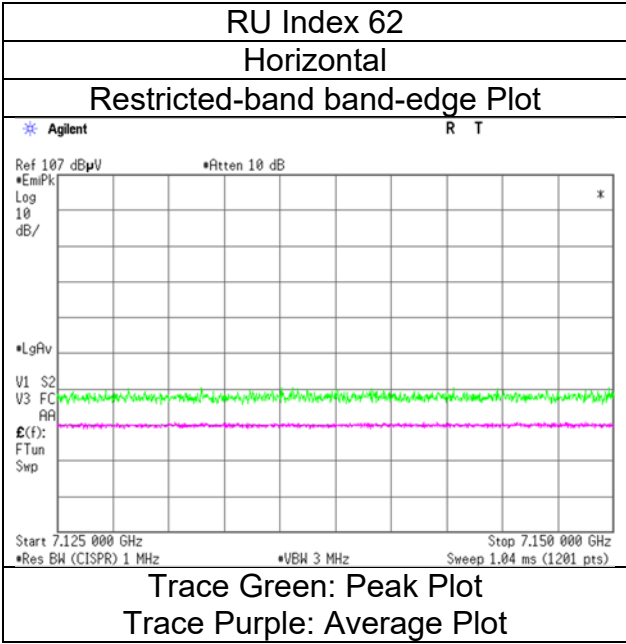
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-40 (OFDMA) 242-tone RU, 7085 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 October 3, 2023
Temperature / Humidity 24 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 7085 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.	7125.000	PK	49.39	37.00	17.89	43.29	0.00	2.49	63.48	-31.75	-7.0	24.7	331	27	-
Hori.	7125.000	AV	38.74	37.00	17.89	43.29	0.00	2.49	52.83	-42.40	-27.0	15.4	331	27	-
Vert.	7125.000	PK	49.67	37.00	17.89	43.29	0.00	2.49	63.76	-31.47	-7.0	24.4	150	225	-
Vert.	7125.000	AV	37.29	37.00	17.89	43.29	0.00	2.49	51.38	-43.85	-27.0	16.8	150	225	-

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).

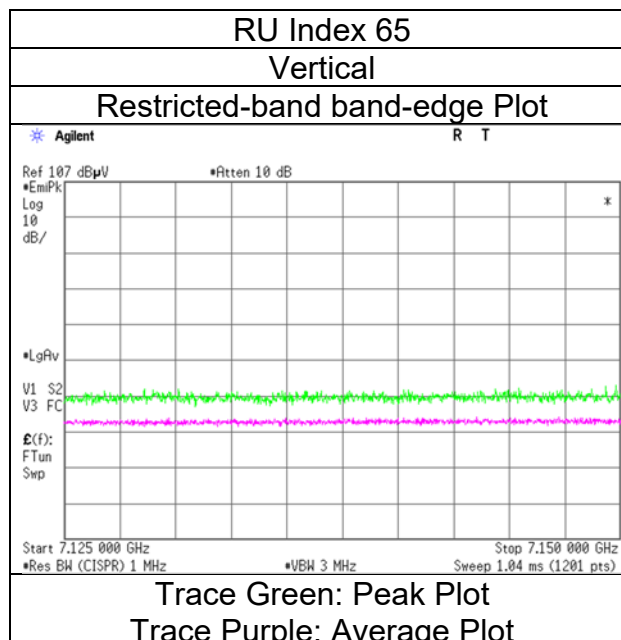
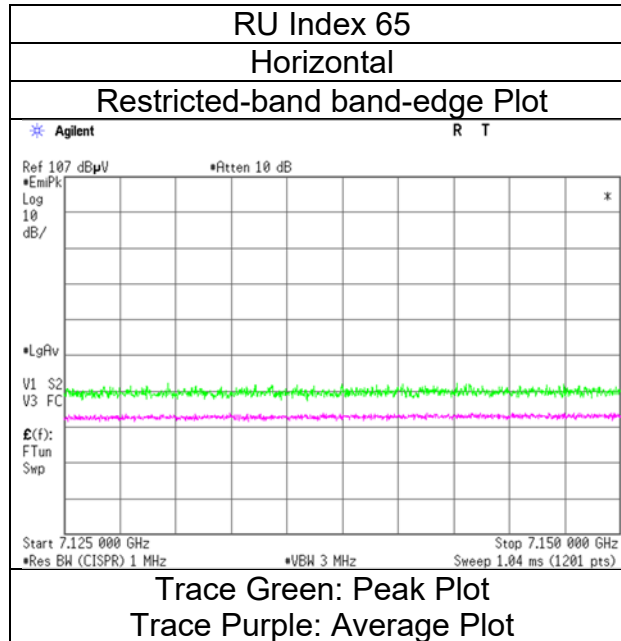
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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
October 3, 2023
24 deg. C / 40 % RH
Yohsuke Matsuzawa
Tx 11ax-40 (OFDMA) 484-tone RU, 7085 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 5985 MHz

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.	5850.000	PK	49.17	32.94	16.95	43.39	0.00	2.49	58.16	-37.07	-7.0	30.0	150	18	-
Hori.	5850.000	AV	39.38	32.94	16.95	43.39	0.00	2.49	48.37	-46.86	-27.0	19.8	150	18	-
Vert.	5850.000	PK	48.88	32.94	16.95	43.39	0.00	2.49	57.87	-37.36	-7.0	30.3	158	250	-
Vert.	5850.000	AV	39.32	32.94	16.95	43.39	0.00	2.49	48.31	-46.92	-27.0	19.9	158	250	-

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).

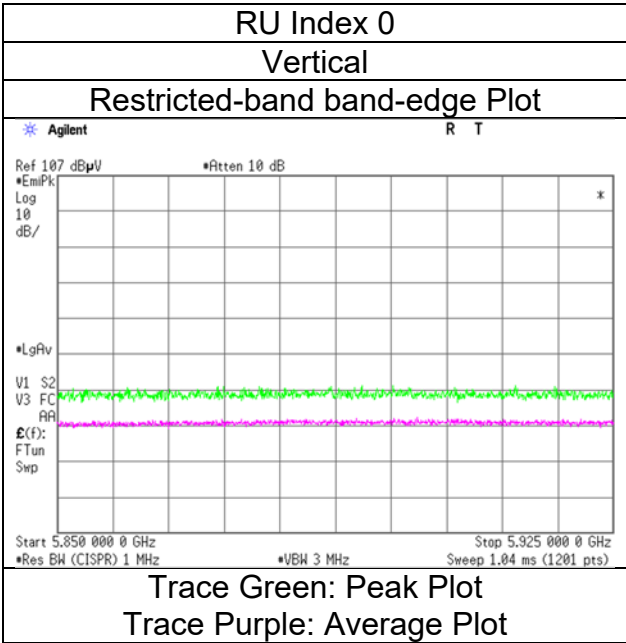
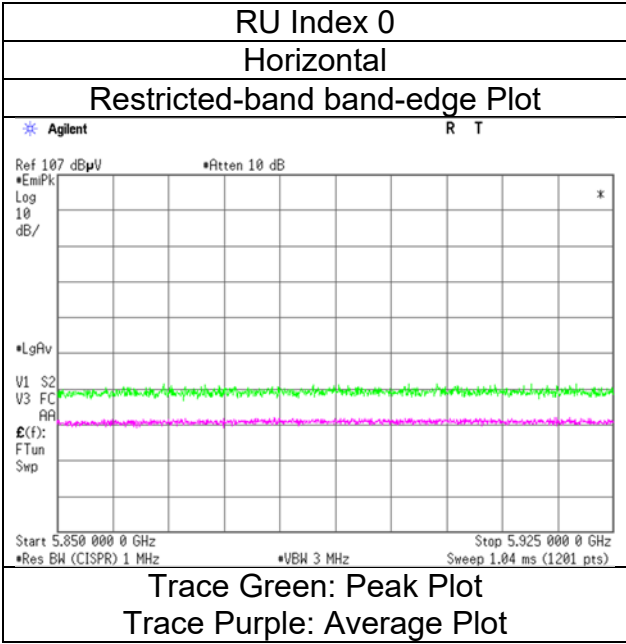
Distance factor : 1 GHz - 10 GHz : 20log (3.995 m / 3.0 m) = 2.49 dB

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-80 (OFDMA) 26-tone RU, 5985 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
(1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz

RU Index 37

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

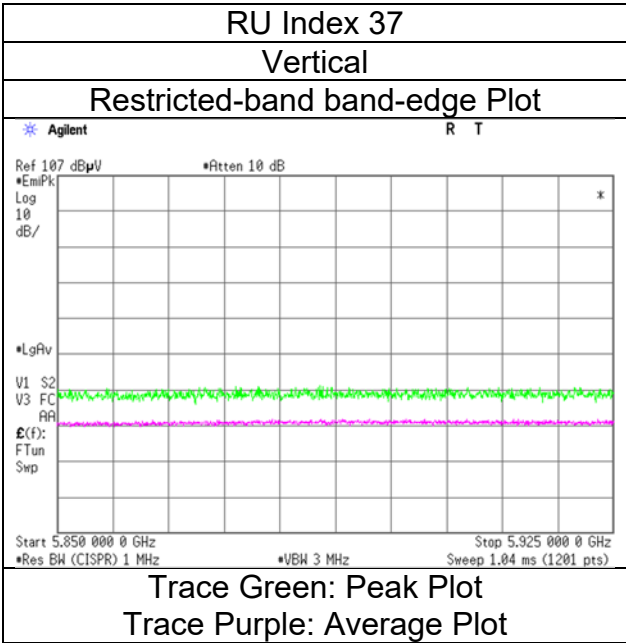
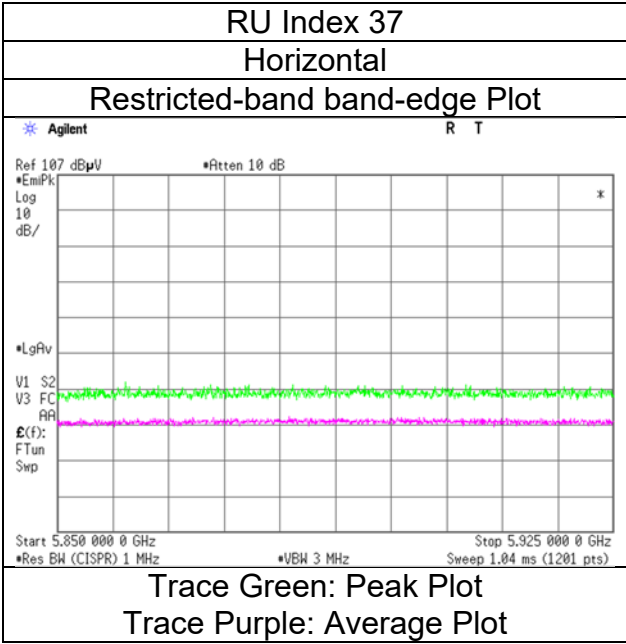
(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5925.000	PK	48.75	33.06	17.00	43.38	0.00	2.49	57.92	-37.31	-7.0	30.3	156	23	-
Hori.	5925.000	AV	39.39	33.06	17.00	43.38	0.00	2.49	48.56	-46.67	-27.0	19.6	156	23	-
Vert.	5925.000	PK	48.38	33.06	17.00	43.38	0.00	2.49	57.55	-37.68	-7.0	30.6	178	231	-
Vert.	5925.000	AV	39.54	33.06	17.00	43.38	0.00	2.49	48.71	-46.52	-27.0	19.5	178	231	-

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-80 (OFDMA) 52-tone RU, 5985 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
(1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz

RU Index 53

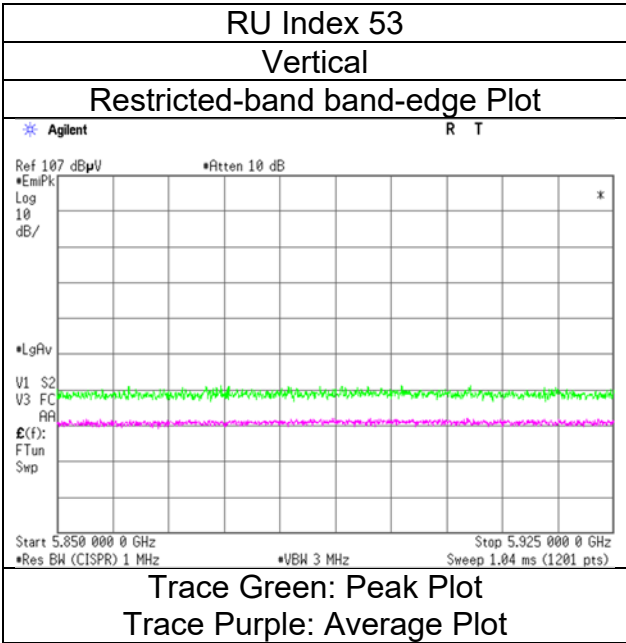
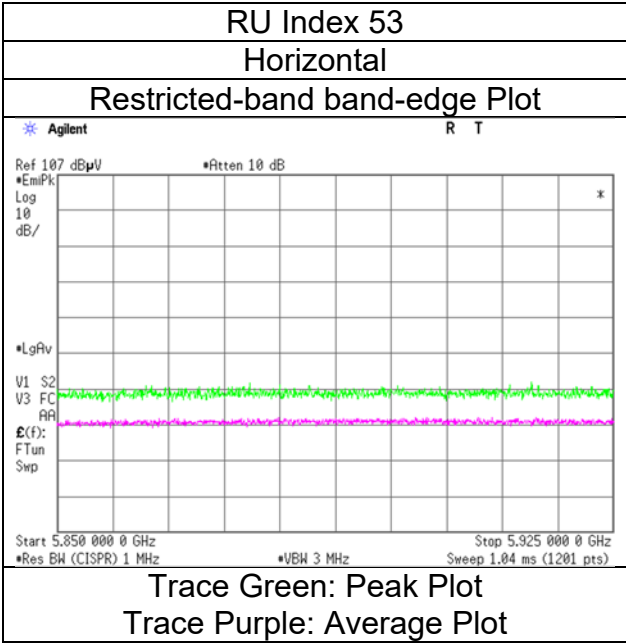
(Calculation) (above 1 GHz Outside of the restricted band)

(* 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	47.98	33.06	17.00	43.38	0.00	2.49	57.15	-38.08	-7.0	31.0	162	40	-
Hori.	5925.000	AV	39.71	33.06	17.00	43.38	0.00	2.49	48.88	-46.35	-27.0	19.3	162	40	-
Vert.	5925.000	PK	48.61	33.06	17.00	43.38	0.00	2.49	57.78	-37.45	-7.0	30.4	157	250	-
Vert.	5925.000	AV	39.53	33.06	17.00	43.38	0.00	2.49	48.70	-46.53	-27.0	19.5	157	250	-

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 12, 2024
Temperature / Humidity	21 deg. C / 31 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 106-tone RU, 5985 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 5985 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	47.93	33.06	17.00	43.38	0.00	2.49	57.10	-38.13	-7.0	31.1	165	41	-
Hori.	5925.000	AV	39.34	33.06	17.00	43.38	0.00	2.49	48.51	-46.72	-27.0	19.7	165	41	-
Vert.	5925.000	PK	48.38	33.06	17.00	43.38	0.00	2.49	57.55	-37.68	-7.0	30.6	174	249	-
Vert.	5925.000	AV	39.45	33.06	17.00	43.38	0.00	2.49	48.62	-46.61	-27.0	19.6	174	249	-

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)

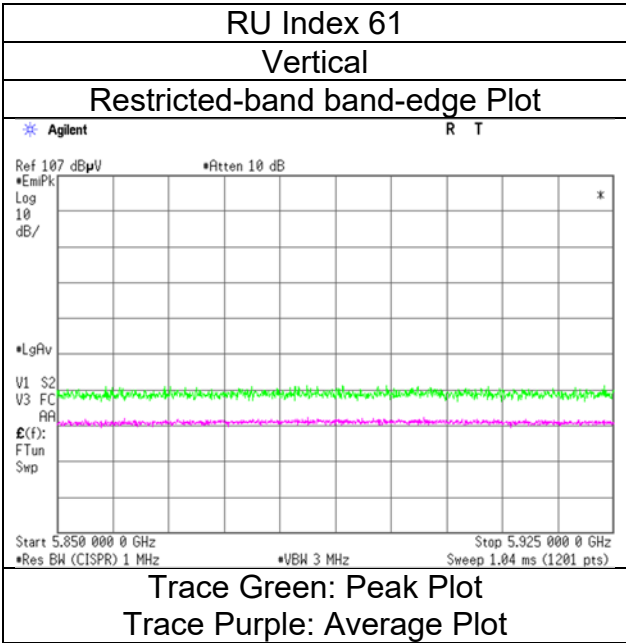
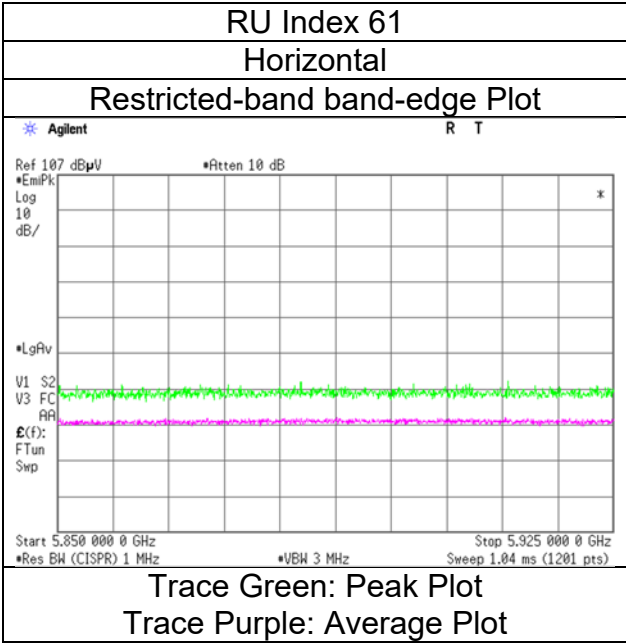
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 12, 2024
Temperature / Humidity	21 deg. C / 31 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 242-tone RU, 5985 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 5985 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	48.92	33.06	17.00	43.38	0.00	2.49	58.09	-37.14	-7.0	30.1	165	38	-
Hori.	5925.000	AV	39.11	33.06	17.00	43.38	0.00	2.49	48.28	-46.95	-27.0	19.9	165	38	-
Vert.	5925.000	PK	48.26	33.06	17.00	43.38	0.00	2.49	57.43	-37.80	-7.0	30.8	152	245	-
Vert.	5925.000	AV	38.77	33.06	17.00	43.38	0.00	2.49	47.94	-47.29	-27.0	20.2	152	245	-

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)

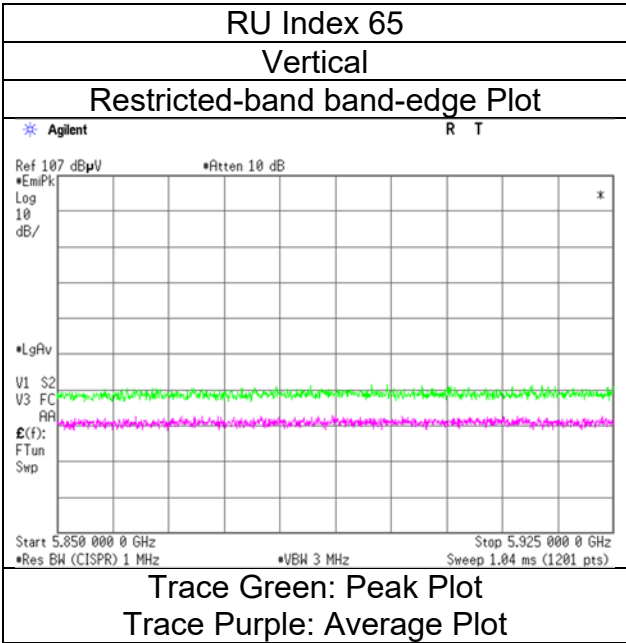
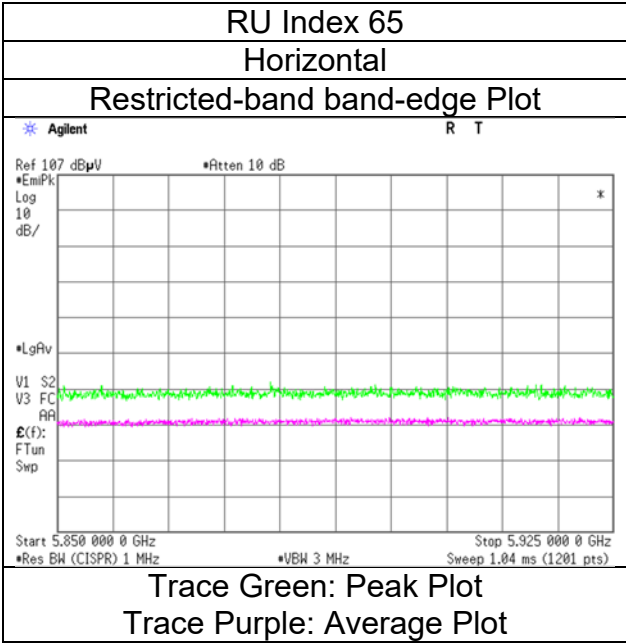
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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 12, 2024
Temperature / Humidity	21 deg. C / 31 % RH
Engineer	Akihiro Oda
Mode	Tx 11ax-80 (OFDMA) 484-tone RU, 5985 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 October 3, 2023
Temperature / Humidity 24 deg. C / 40 % RH
Engineer Yohsuke Matsuzawa
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 5985 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	50.66	33.06	17.20	43.38	0.00	2.49	60.03	-35.20	-7.0	28.2	102	251	-
Hori.	5925.000	AV	38.93	33.06	17.20	43.38	0.20	2.49	48.50	-46.73	-27.0	19.7	102	251	-
Vert.	5925.000	PK	49.88	33.06	17.20	43.38	0.00	2.49	59.25	-35.98	-7.0	28.9	134	233	-
Vert.	5925.000	AV	39.11	33.06	17.20	43.38	0.20	2.49	48.68	-46.55	-27.0	19.5	134	233	-

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)

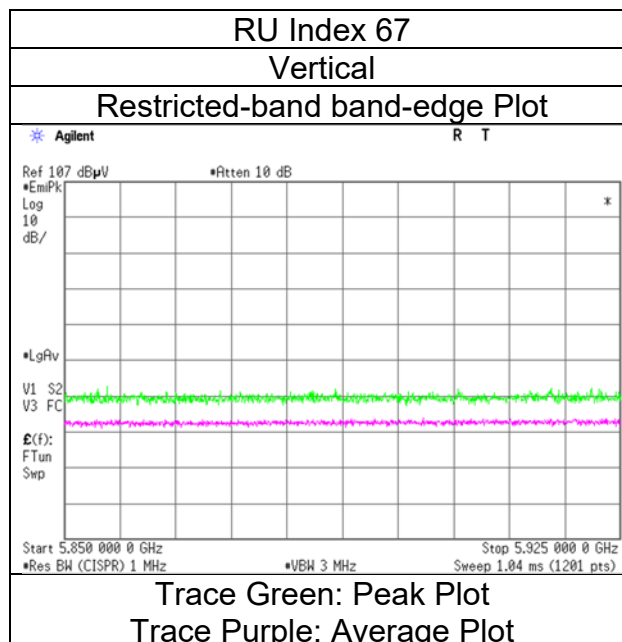
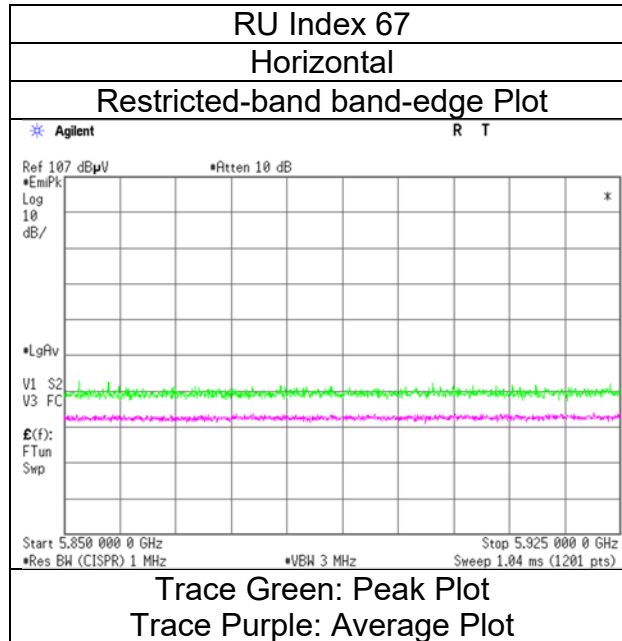
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

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	October 3, 2023
Temperature / Humidity	24 deg. C / 40 % RH
Engineer	Yohsuke Matsuzawa
Mode	Tx 11ax-80 (OFDMA) 996-tone RU, 5985 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
(1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz

RU Index 36

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

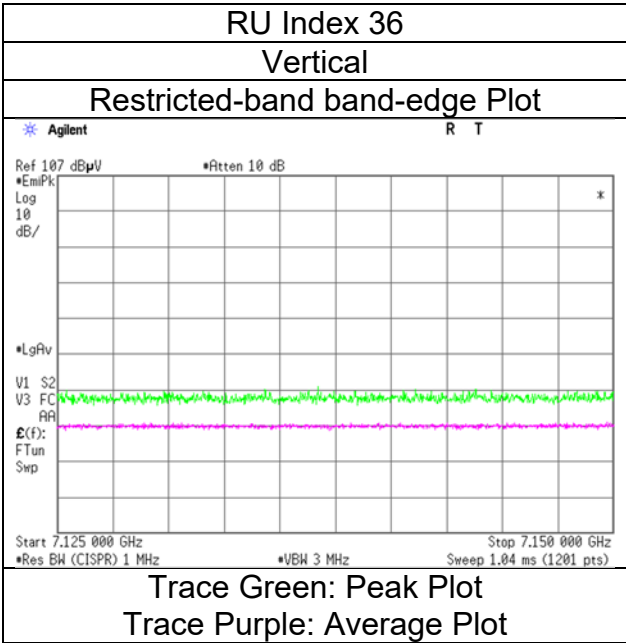
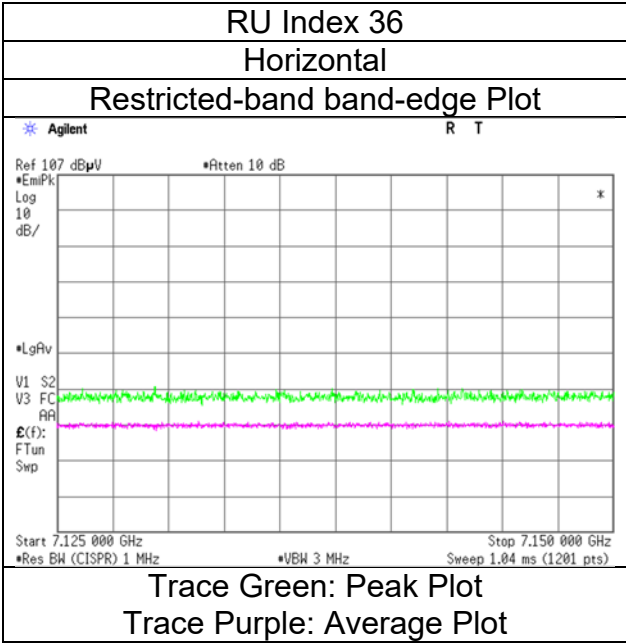
(* PK: Peak, AV: Average, QP: Quasi-Peak)															
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	7125.000	PK	48.16	37.00	17.71	43.29	0.00	2.49	62.07	-33.16	-7.0	26.1	141	31	-
Hori.	7125.000	AV	38.49	37.00	17.71	43.29	0.00	2.49	52.40	-42.83	-27.0	15.8	141	31	-
Vert.	7125.000	PK	48.74	37.00	17.71	43.29	0.00	2.49	62.65	-32.58	-7.0	25.5	141	22	-
Vert.	7125.000	AV	38.41	37.00	17.71	43.29	0.00	2.49	52.32	-42.91	-27.0	15.9	141	22	-

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 12, 2024
21 deg. C / 31 % RH
Akihiro Oda
Tx 11ax-80 (OFDMA) 26-tone RU, 7025 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 12, 2024
Temperature / Humidity 21 deg. C / 31 % RH
Engineer Akihiro Oda
 (1 GHz -8 GHz)
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 7025 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	47.82	37.00	17.71	43.29	0.00	2.49	61.73	-33.50	-7.0	26.5	138	69	-
Hori.	7125.000	AV	38.39	37.00	17.71	43.29	0.00	2.49	52.30	-42.93	-27.0	15.9	138	69	-
Vert.	7125.000	PK	48.22	37.00	17.71	43.29	0.00	2.49	62.13	-33.10	-7.0	26.1	182	294	-
Vert.	7125.000	AV	38.54	37.00	17.71	43.29	0.00	2.49	52.45	-42.78	-27.0	15.7	182	294	-

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