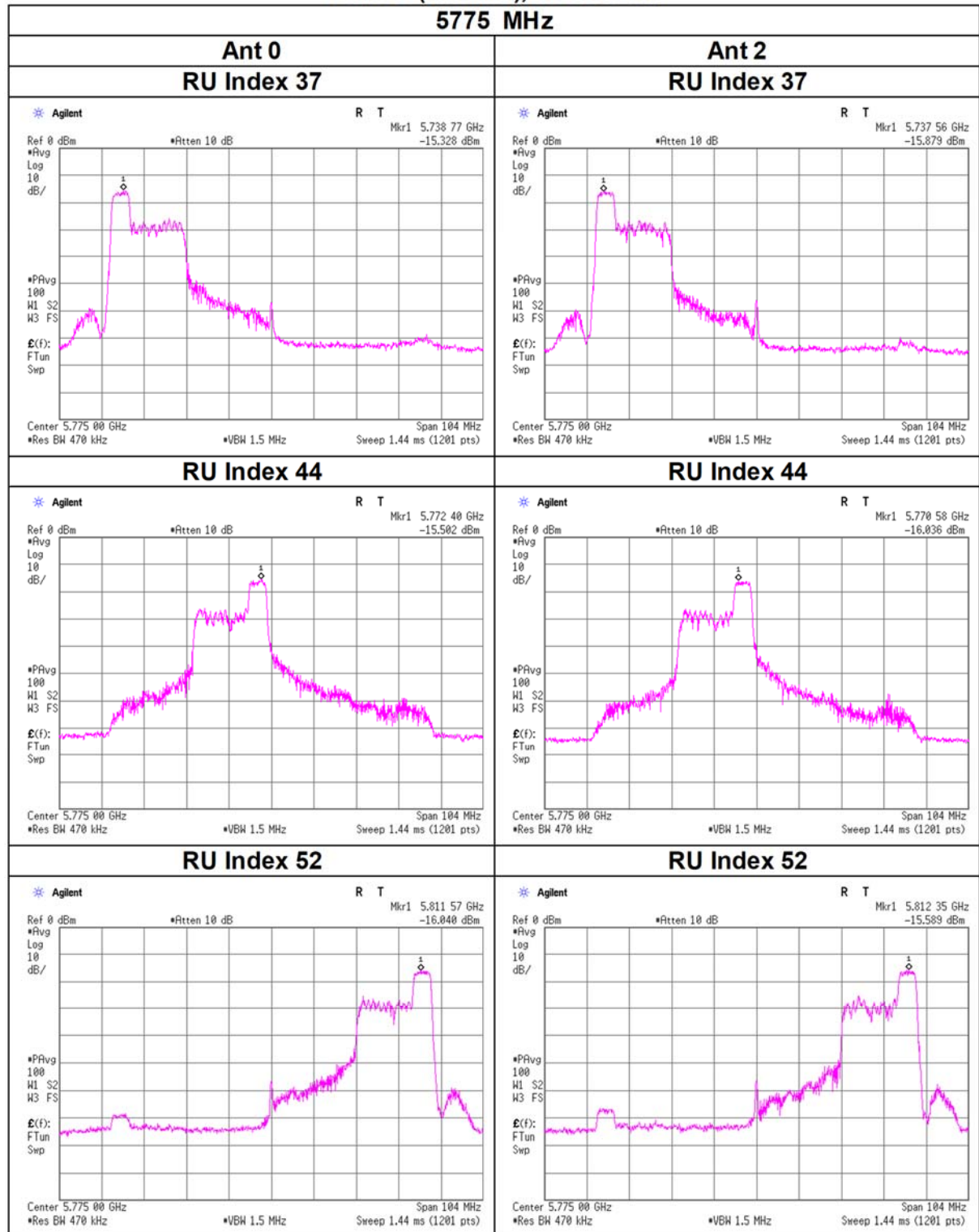


Maximum Power Spectral Density

11ax-80(OFDMA), 52-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.1 Measurement Room
Date March 5, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 106-tone RU Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]					Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]				
5210	53	0.40	0.40	0.80	-0.99	11.00	11.99		0.47	1.01	1.48	1.70	17.00	15.30	
	56	0.38	0.43	0.81	-0.94	11.00	11.94		0.44	1.10	1.54	1.88	17.00	15.12	
	60	0.42	0.45	0.87	-0.62	11.00	11.62		0.49	1.15	1.64	2.15	17.00	14.85	
5290	53	0.23	0.22	0.45	-3.51	11.00	14.51		0.27	0.55	0.82	-0.86	17.00	17.86	
	56	0.24	0.26	0.50	-3.01	11.00	14.01		0.29	0.66	0.94	-0.26	17.00	17.26	
	60	0.23	0.25	0.49	-3.13	11.00	14.13		0.28	0.64	0.92	-0.37	17.00	17.37	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	Ant 0						Ant 2					
				PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	53	1.11	-	-18.05	2.95	10.01	0.70	-3.98	-3.28	-18.08	2.95	10.00	4.07	-4.02	0.05
	56	1.11	-	-18.33	2.95	10.01	0.70	-4.26	-3.56	-17.72	2.95	10.00	4.07	-3.66	0.41
	60	1.11	-	-17.88	2.95	10.01	0.70	-3.81	-3.11	-17.52	2.95	10.00	4.07	-3.46	0.61
5290	53	1.11	-	-20.47	2.96	10.01	0.70	-6.38	-5.68	-20.73	2.96	10.00	4.07	-6.66	-2.59
	56	1.11	-	-20.23	2.96	10.01	0.70	-6.14	-5.44	-19.97	2.96	10.00	4.07	-5.90	-1.83
	60	1.11	-	-20.38	2.96	10.01	0.70	-6.29	-5.59	-20.06	2.96	10.00	4.07	-5.99	-1.92

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 106-tone RU Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]					Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]				
5530	53	0.61	0.64	1.26	0.99	11.00	10.01		0.72	1.64	2.36	3.73	17.00	13.27	
	56	0.62	0.78	1.40	1.46	11.00	9.54		0.73	1.98	2.71	4.33	17.00	12.67	
	60	0.80	0.83	1.63	2.12	11.00	8.88		0.94	2.13	3.06	4.86	17.00	12.14	
5775	53	0.37	0.36	0.73	-1.34	30.00	31.34		0.44	0.93	1.36	1.35	36.00	34.65	
	56	0.38	0.33	0.71	-1.47	30.00	31.47		0.45	0.85	1.30	1.13	36.00	34.87	
	60	0.35	0.36	0.71	-1.46	30.00	31.46		0.41	0.93	1.34	1.28	36.00	34.72	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	Ant 0						Ant 2					
				PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
				[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5530	53	1.11	-	-16.23	2.98	10.01	0.70	-2.13	-1.43	-16.01	2.98	10.01	4.07	-1.91	2.16
	56	1.11	-	-16.15	2.98	10.01	0.70	-2.05	-1.35	-15.21	2.98	10.01	4.07	-1.11	2.96
	60	1.11	-	-15.09	2.98	10.01	0.70	-0.99	-0.29	-14.89	2.98	10.01	4.07	-0.79	3.28
5775	53	1.11	0.27	-18.70	3.00	10.01	0.70	-4.31	-3.61	-18.78	3.00	10.02	4.07	-4.39	-0.32
	56	1.11	0.27	-18.60	3.00	10.01	0.70	-4.21	-3.51	-19.17	3.00	10.02	4.07	-4.77	-0.70
	60	1.11	0.27	-18.95	3.00	10.01	0.70	-4.56	-3.86	-18.78	3.00	10.02	4.07	-4.38	-0.31

Sample Calculation:

PSD: Power Spectral Density

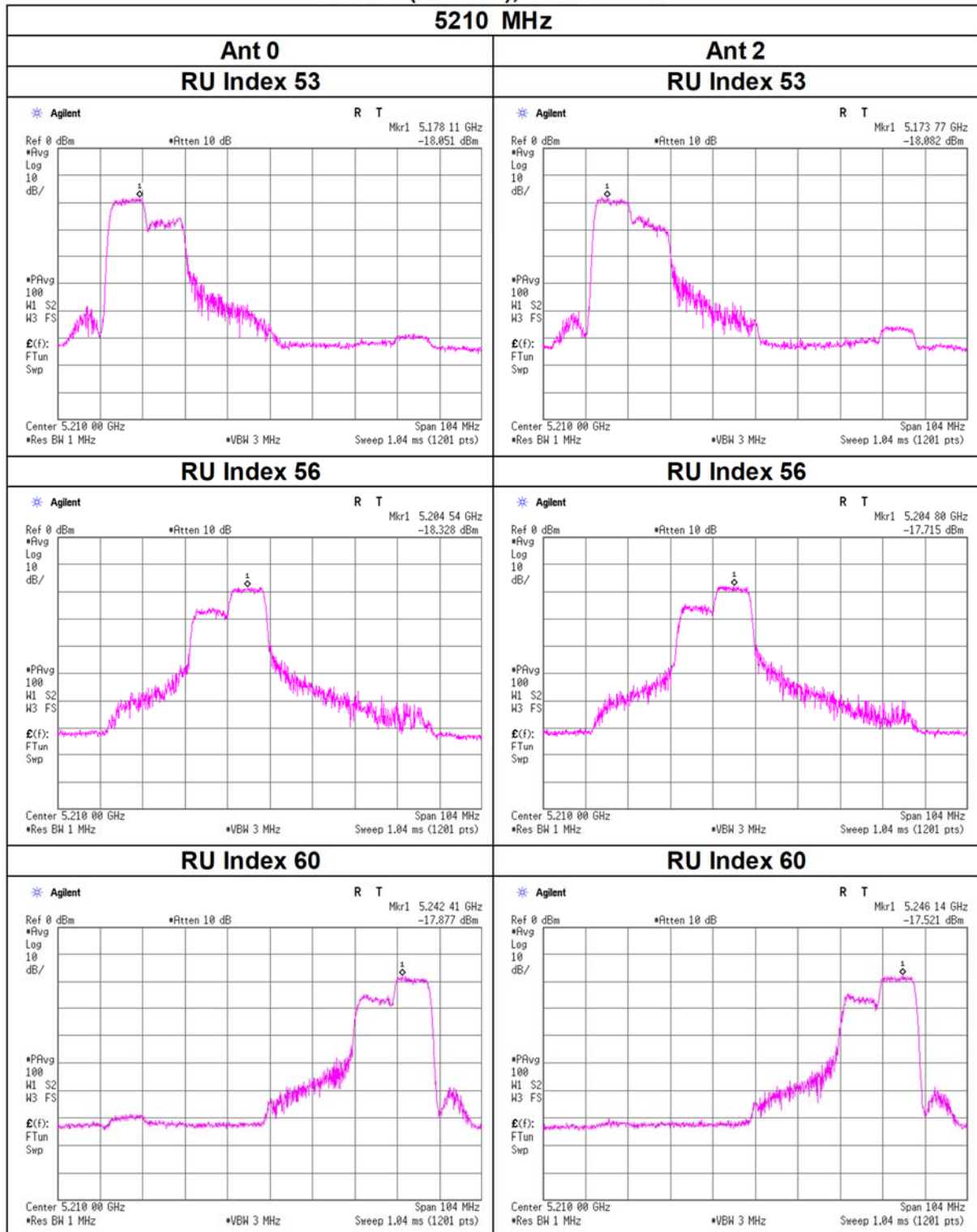
PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

RBW Conversion Factor = 10 x log (500 [kHz] / 470 [kHz])

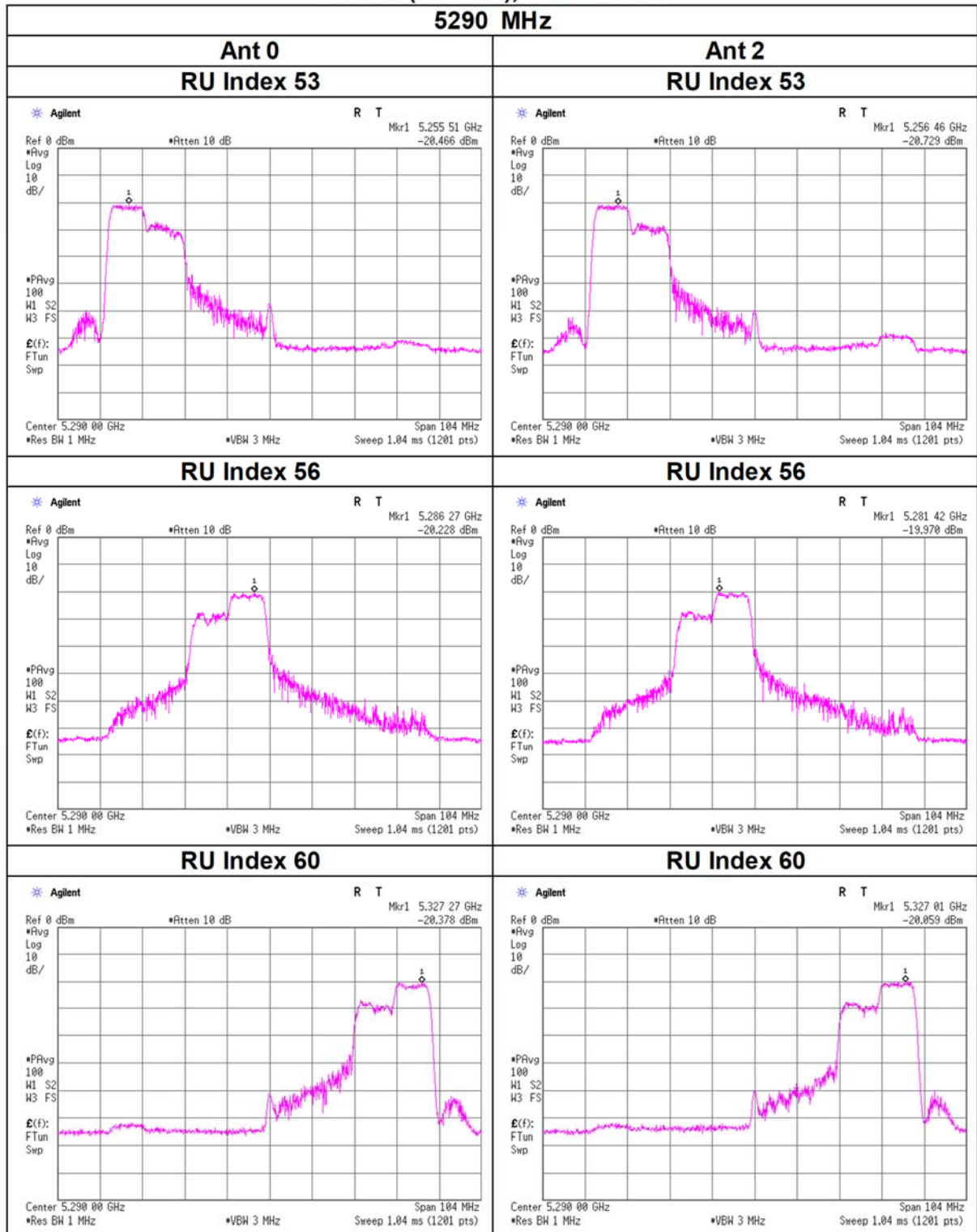
Maximum Power Spectral Density

11ax-80(OFDMA), 106-tone RU



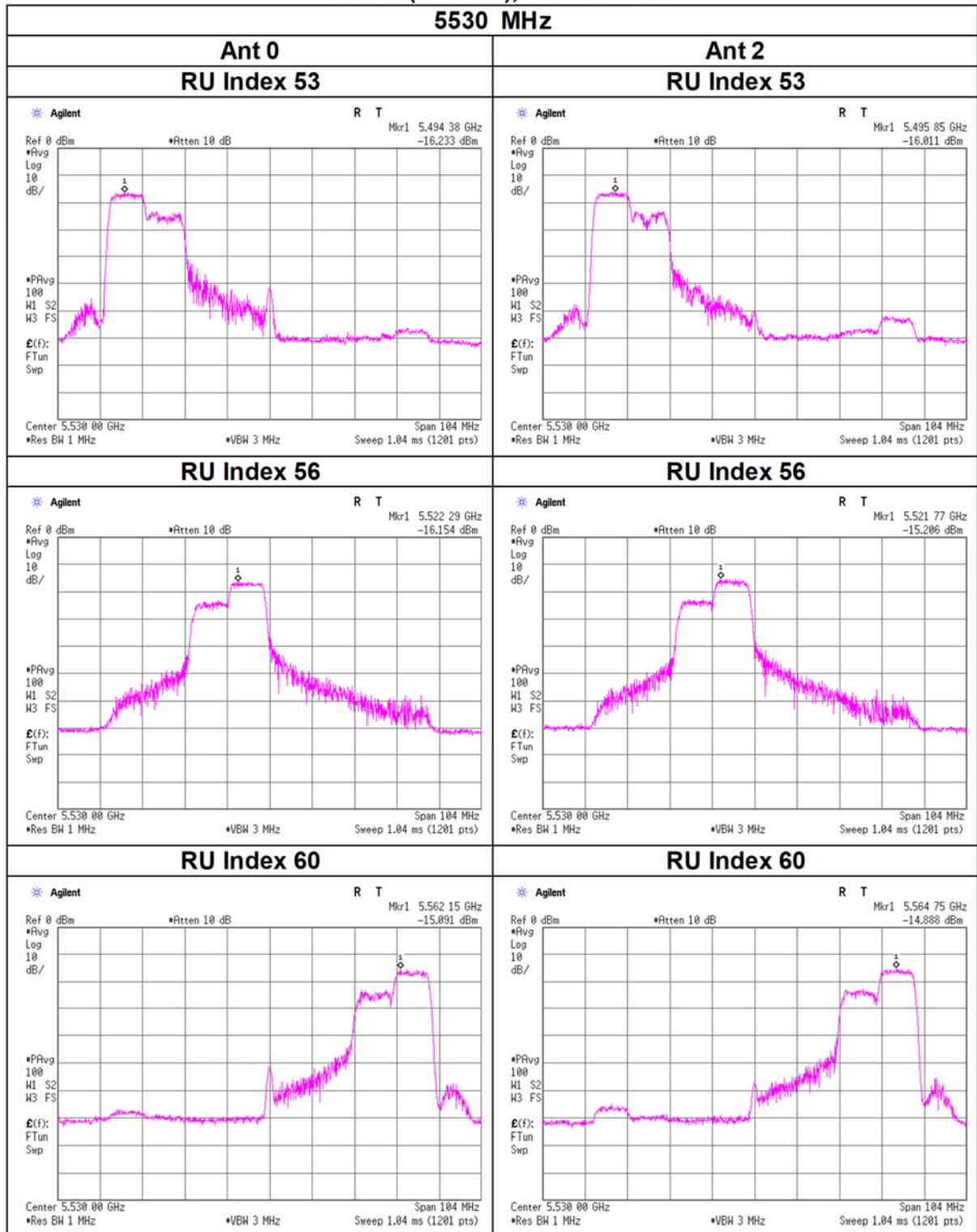
Maximum Power Spectral Density

11ax-80(OFDMA), 106-tone RU



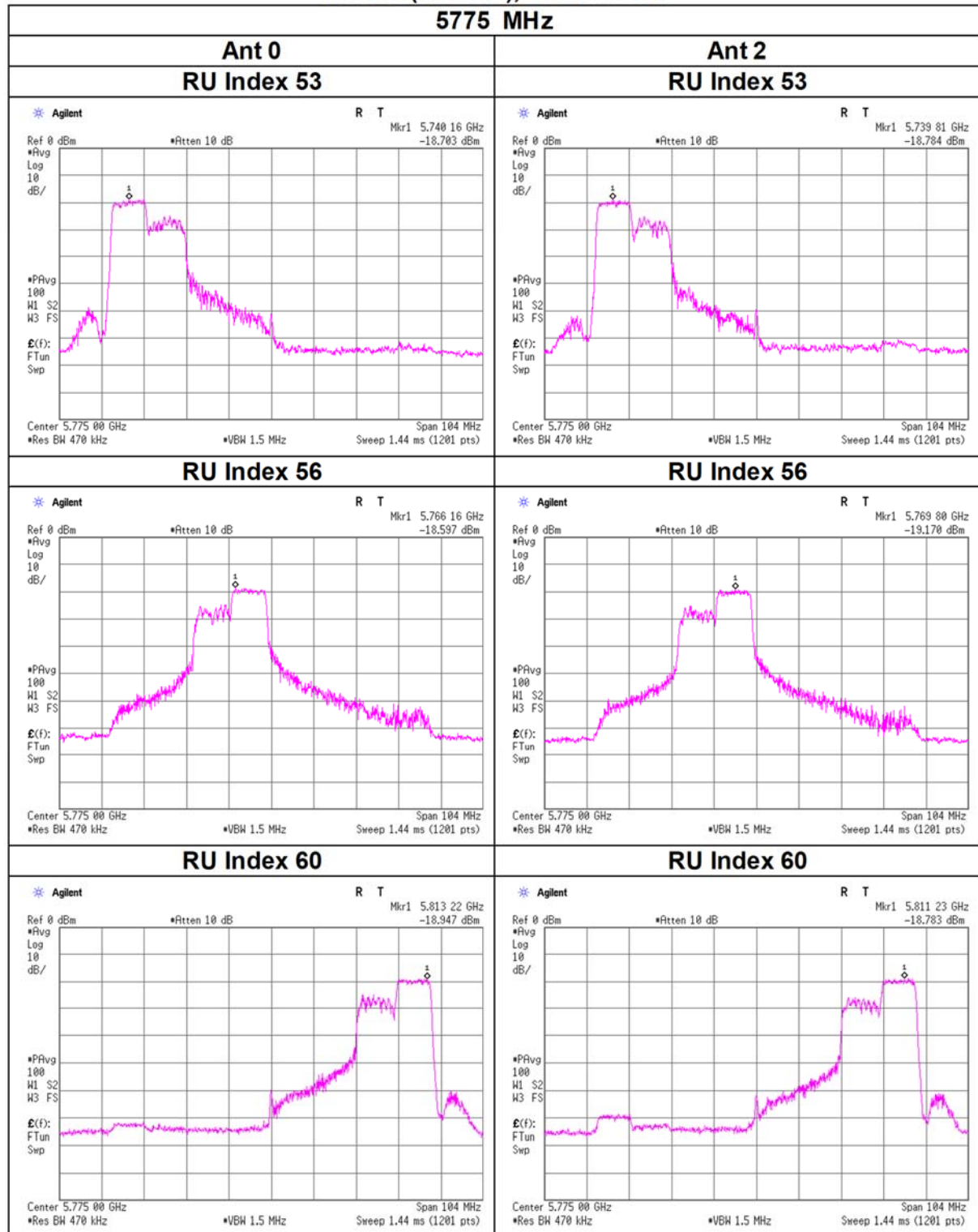
Maximum Power Spectral Density

11ax-80(OFDMA), 106-tone RU



Maximum Power Spectral Density

11ax-80(OFDMA), 106-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.1 Measurement Room
Date March 5, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 242-tone RU Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]		Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	
		Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]					Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]				
5210	61	0.46	0.52	0.98	-0.10	11.00	11.10		0.54	1.32	1.86	2.69	17.00	14.31	
	62	0.39	0.44	0.83	-0.80	11.00	11.80		0.46	1.13	1.59	2.01	17.00	14.99	
	64	0.52	0.49	1.01	0.04	11.00	10.96		0.61	1.25	1.86	2.69	17.00	14.31	
5290	61	0.26	0.27	0.53	-2.77	11.00	13.77		0.31	0.68	0.99	-0.05	17.00	17.05	
	62	0.24	0.25	0.48	-3.17	11.00	14.17		0.28	0.63	0.90	-0.44	17.00	17.44	
	64	0.28	0.33	0.61	-2.17	11.00	13.17		0.33	0.84	1.16	0.66	17.00	16.34	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	Ant 0						Ant 2					
				PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]
5210	61	1.33	-	-17.66	2.95	10.01	0.70	-3.37	-2.67	-17.16	2.95	10.00	4.07	-2.87	1.20
	62	1.33	-	-18.41	2.95	10.01	0.70	-4.11	-3.41	-17.81	2.95	10.00	4.07	-3.53	0.54
	64	1.33	-	-17.13	2.95	10.01	0.70	-2.84	-2.14	-17.40	2.95	10.00	4.07	-3.12	0.95
5290	61	1.33	-	-20.15	2.96	10.01	0.70	-5.84	-5.14	-20.02	2.96	10.00	4.07	-5.73	-1.66
	62	1.33	-	-20.57	2.96	10.01	0.70	-6.26	-5.56	-20.40	2.96	10.00	4.07	-6.11	-2.04
	64	1.33	-	-19.84	2.96	10.01	0.70	-5.53	-4.83	-19.14	2.96	10.00	4.07	-4.85	-0.78

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 242-tone RU Applied limit: 15.407, Client

Tested Frequency [MHz]	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]		Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	
		Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]					Ant 0 [mW/MHz]	Ant 2 [mW/MHz]	Sum [mW/MHz]				
5530	61	0.46	0.52	0.98	-0.10	11.00	11.10		0.54	1.32	1.86	2.69	17.00	14.31	
	62	0.35	0.44	0.79	-1.03	11.00	12.03		0.41	1.12	1.53	1.85	17.00	15.15	
	64	0.47	0.52	0.99	-0.04	11.00	11.04		0.55	1.33	1.88	2.75	17.00	14.25	
5775	61	0.21	0.21	0.43	-3.70	30.00	33.70		0.25	0.55	0.80	-0.99	36.00	36.99	
	62	0.16	0.16	0.32	-5.01	30.00	35.01		0.19	0.40	0.59	-2.30	36.00	38.30	
	64	0.22	0.22	0.45	-3.51	30.00	33.51		0.26	0.57	0.83	-0.80	36.00	36.80	

Tested Frequency [MHz]	RU Index	Duty Factor [dB]	RBW Conversion Factor [dB]	Ant 0						Ant 2					
				PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result Cond. [dBm/MHz]	PSD Result e.i.r.p. [dBm/MHz]
5530	61	1.33	-	-17.69	2.98	10.01	0.70	-3.37	-2.67	-17.19	2.98	10.01	4.07	-2.87	1.20
	62	1.33	-	-18.88	2.98	10.01	0.70	-4.56	-3.86	-17.90	2.98	10.01	4.07	-3.58	0.49
	64	1.33	-	-17.60	2.98	10.01	0.70	-3.28	-2.58	-17.15	2.98	10.01	4.07	-2.83	1.24
5775	61	1.33	0.27	-21.35	3.00	10.01	0.70	-6.74	-6.04	-21.31	3.00	10.02	4.07	-6.69	-2.62
	62	1.33	0.27	-22.63	3.00	10.01	0.70	-8.02	-7.32	-22.64	3.00	10.02	4.07	-8.02	-3.95
	64	1.33	0.27	-21.14	3.00	10.01	0.70	-6.53	-5.83	-21.14	3.00	10.02	4.07	-6.51	-2.44

Sample Calculation:

PSD: Power Spectral Density

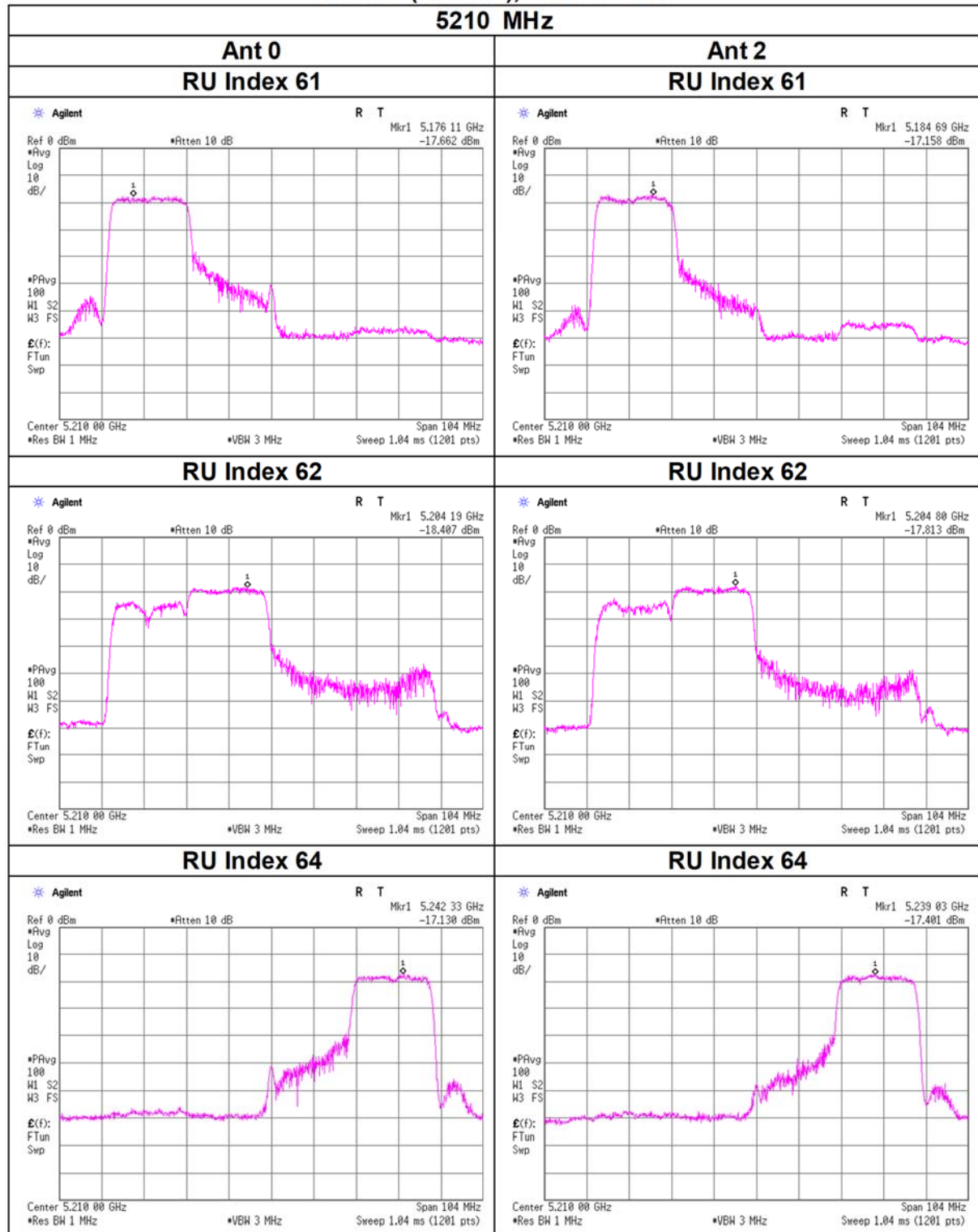
PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

RBW Conversion Factor = 10 x log (500 [kHz] / 470 [kHz])

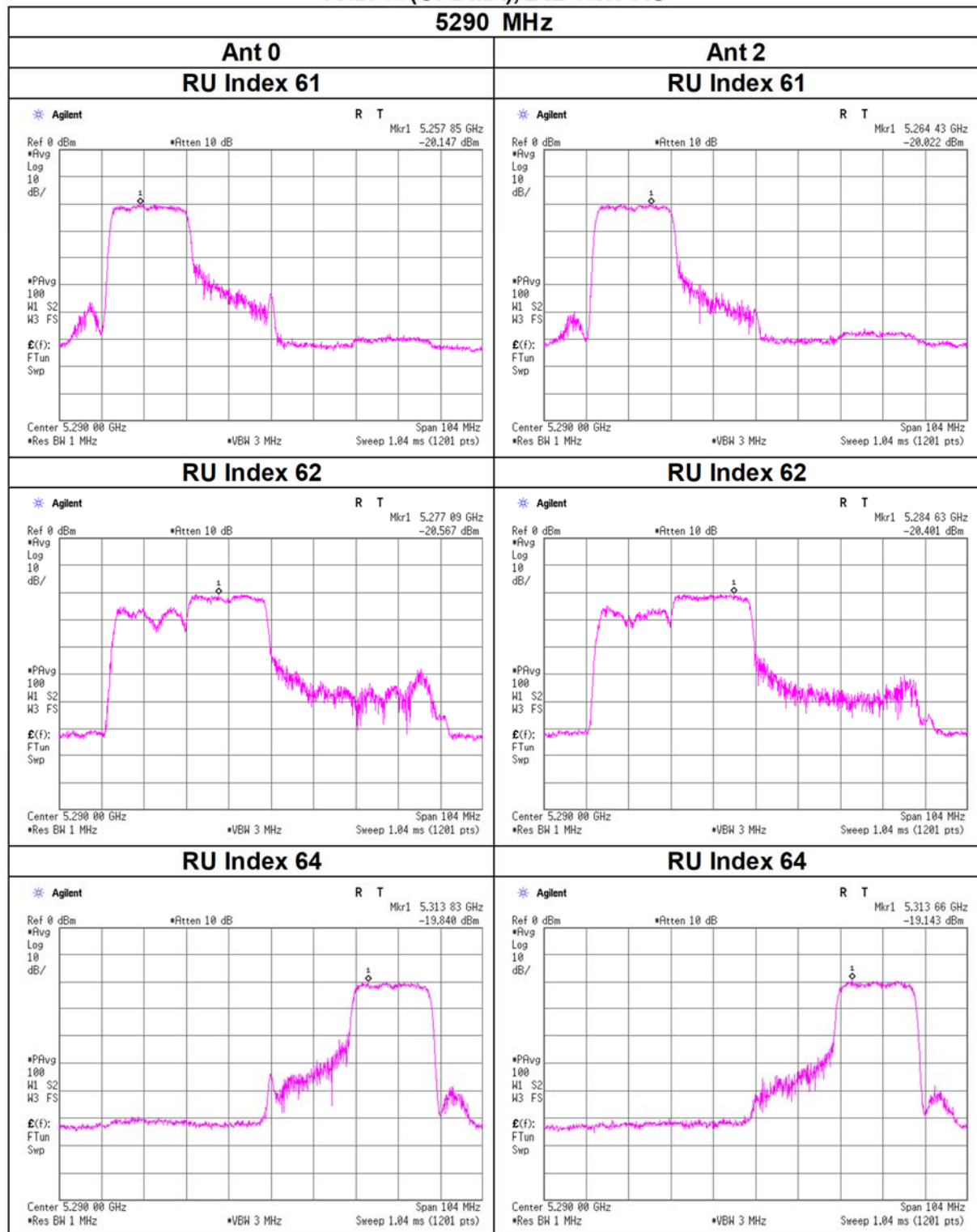
Maximum Power Spectral Density

11ax-80(OFDMA), 242-tone RU



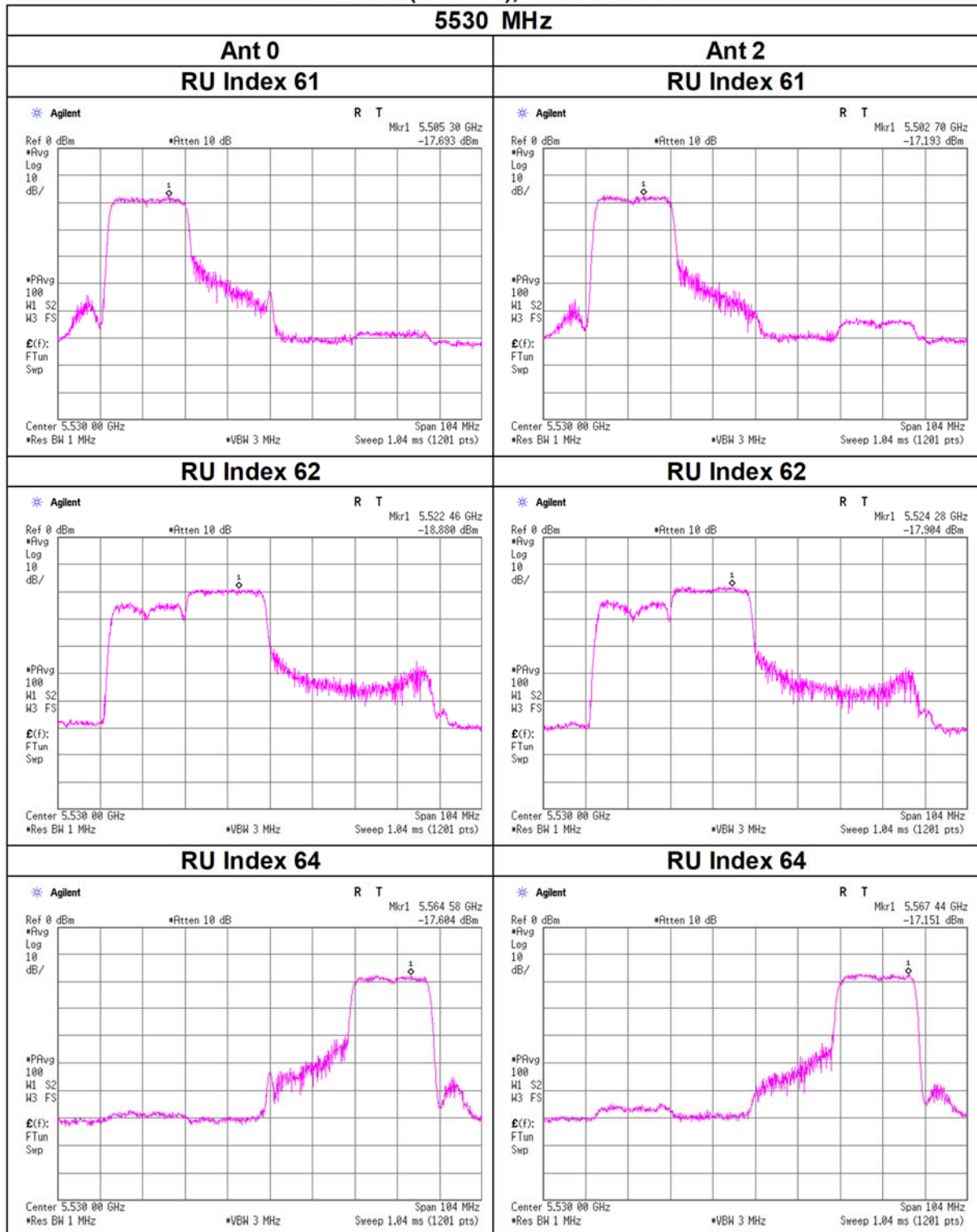
Maximum Power Spectral Density

11ax-80(OFDMA), 242-tone RU



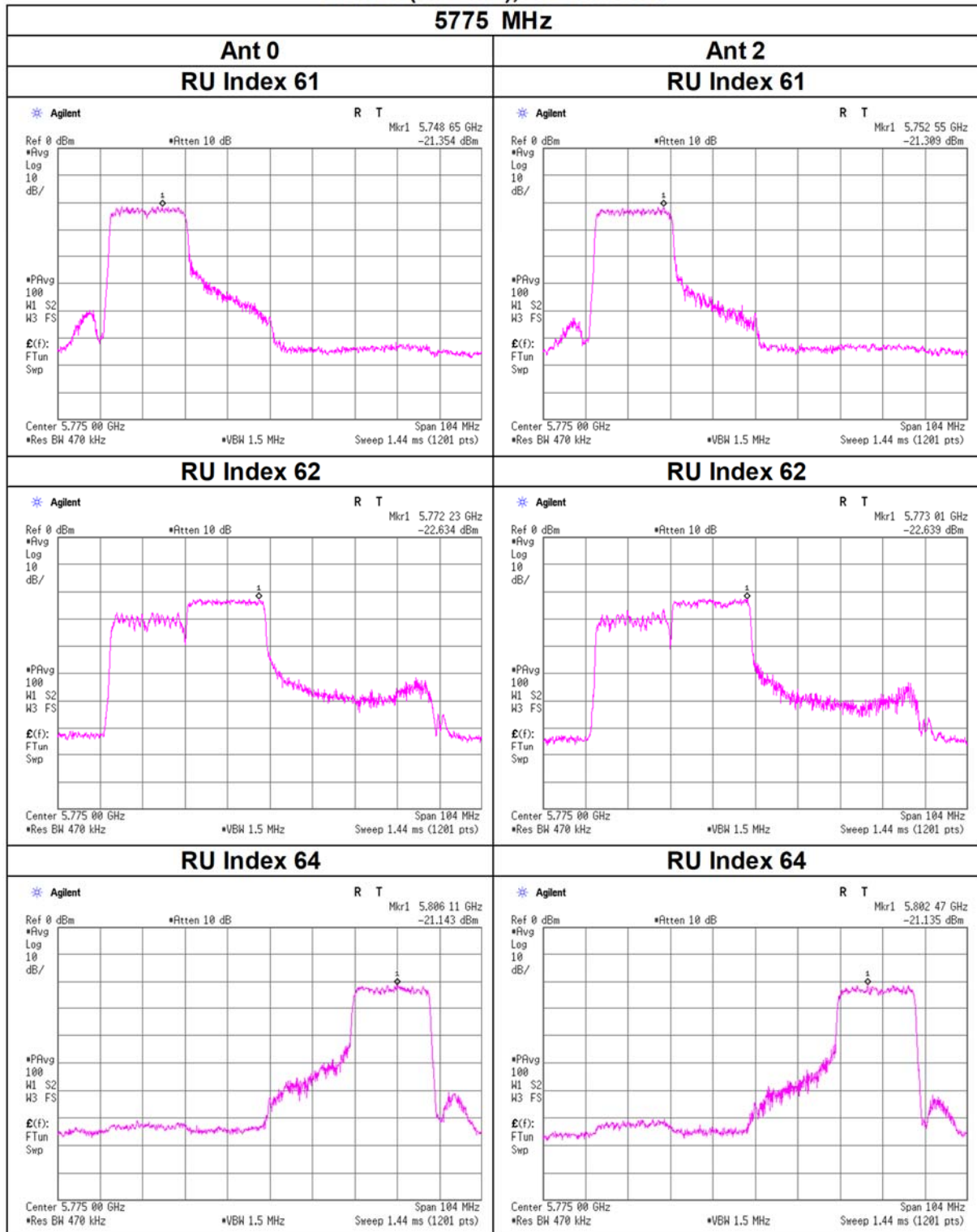
Maximum Power Spectral Density

11ax-80(OFDMA), 242-tone RU



Maximum Power Spectral Density

11ax-80(OFDMA), 242-tone RU



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.1 Measurement Room
Date March 5, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 484-tone RU Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0	Ant 2	Sum					Ant 0	Ant 2	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5210	65	0.24	0.28	0.53	-2.80	11.00	13.80		0.28	0.72	1.01	0.03	17.00	16.97	
	66	0.26	0.28	0.54	-2.65	11.00	13.65		0.31	0.72	1.02	0.10	17.00	16.90	
5290	65	0.26	0.28	0.54	-2.66	11.00	13.66		0.30	0.73	1.03	0.12	17.00	16.88	
	66	0.28	0.31	0.60	-2.24	11.00	13.24		0.33	0.80	1.14	0.55	17.00	16.45	

Ant 0										Ant 2						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5210	65	1.50	-	-20.62	2.95	10.01	0.70	-6.16	-5.46	-19.93	2.95	10.00	4.07	-5.48	-1.41	
	66	1.50	-	-20.28	2.95	10.01	0.70	-5.82	-5.12	-19.97	2.95	10.00	4.07	-5.52	-1.45	
5290	65	1.50	-	-20.37	2.96	10.01	0.70	-5.89	-5.19	-19.93	2.96	10.00	4.07	-5.47	-1.40	
	66	1.50	-	-19.96	2.96	10.01	0.70	-5.48	-4.78	-19.48	2.96	10.00	4.07	-5.02	-0.95	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 484-tone RU Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0	Ant 2	Sum					Ant 0	Ant 2	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5530	65	0.23	0.26	0.49	-3.08	11.00	14.08		0.27	0.66	0.94	-0.29	17.00	17.29	
	66	0.31	0.28	0.60	-2.25	11.00	13.25		0.37	0.73	1.09	0.38	17.00	16.62	
5775	65	0.12	0.12	0.23	-6.35	30.00	36.35		0.14	0.29	0.43	-3.65	36.00	39.65	
	66	0.12	0.12	0.23	-6.32	30.00	36.32		0.14	0.30	0.44	-3.59	36.00	39.59	

Ant 0										Ant 2						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	e.i.r.p.	
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5530	65	1.50	-	-20.80	2.98	10.01	0.70	-6.31	-5.61	-20.36	2.98	10.01	4.07	-5.87	-1.80	
	66	1.50	-	-19.57	2.98	10.01	0.70	-5.07	-4.37	-19.96	2.98	10.01	4.07	-5.46	-1.39	
5775	65	1.50	0.27	-24.13	3.00	10.01	0.70	-9.35	-8.65	-24.17	3.00	10.02	4.07	-9.38	-5.31	
	66	1.50	0.27	-24.17	3.00	10.01	0.70	-9.39	-8.69	-24.06	3.00	10.02	4.07	-9.27	-5.20	

Sample Calculation:

PSD: Power Spectral Density

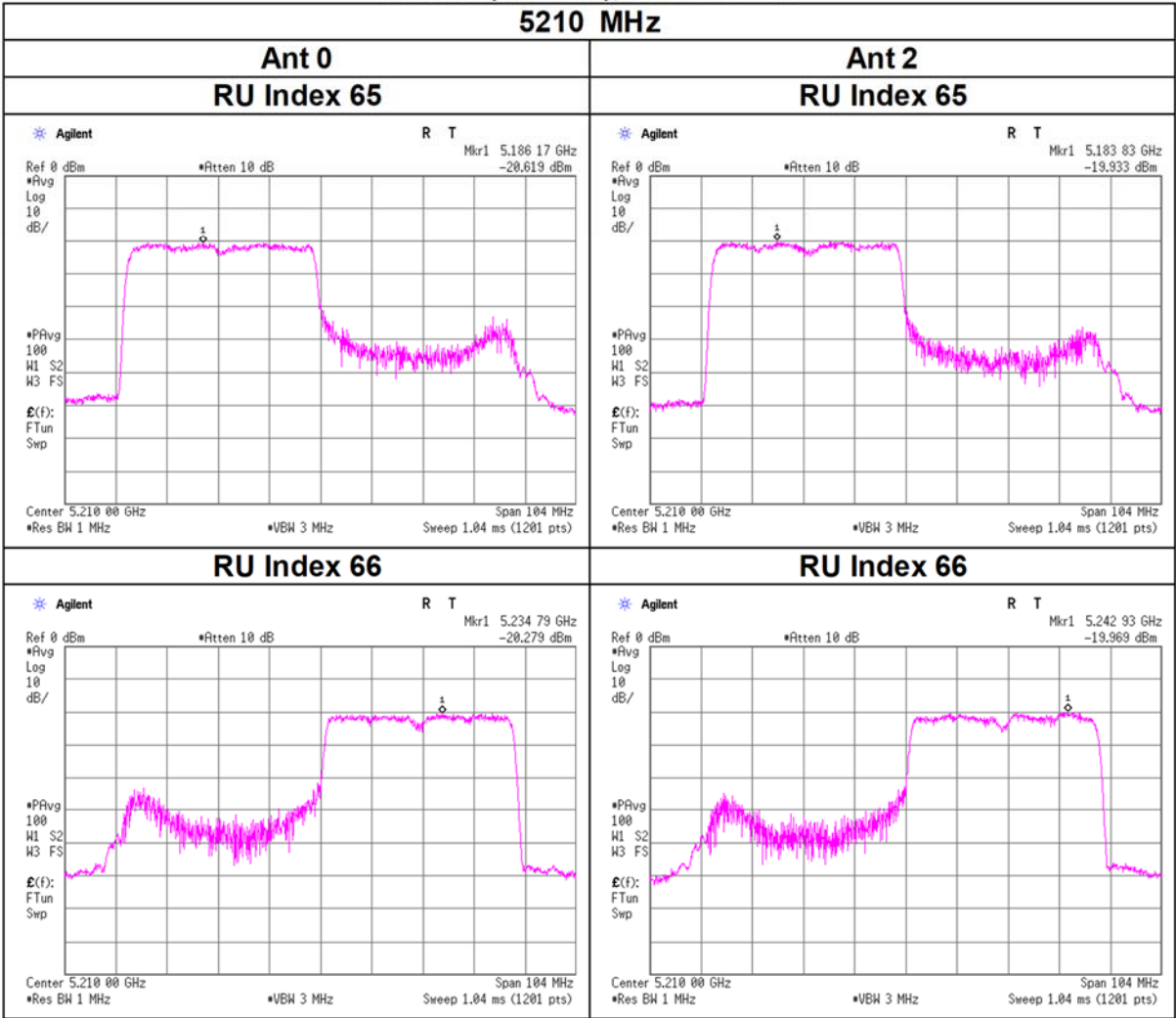
PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

RBW Conversion Factor = 10 x log (500 [kHz] / 470 [kHz])

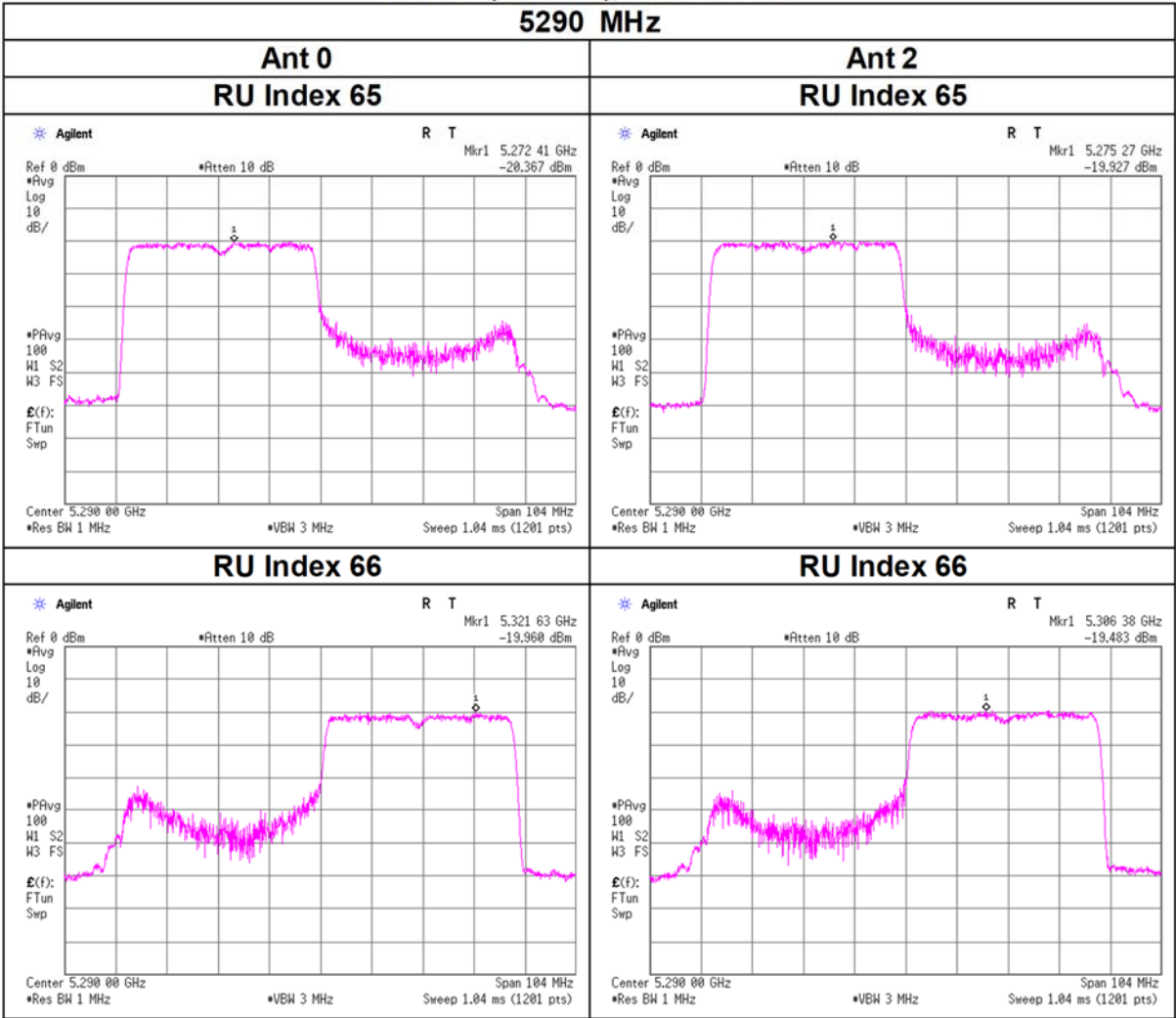
Maximum Power Spectral Density

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



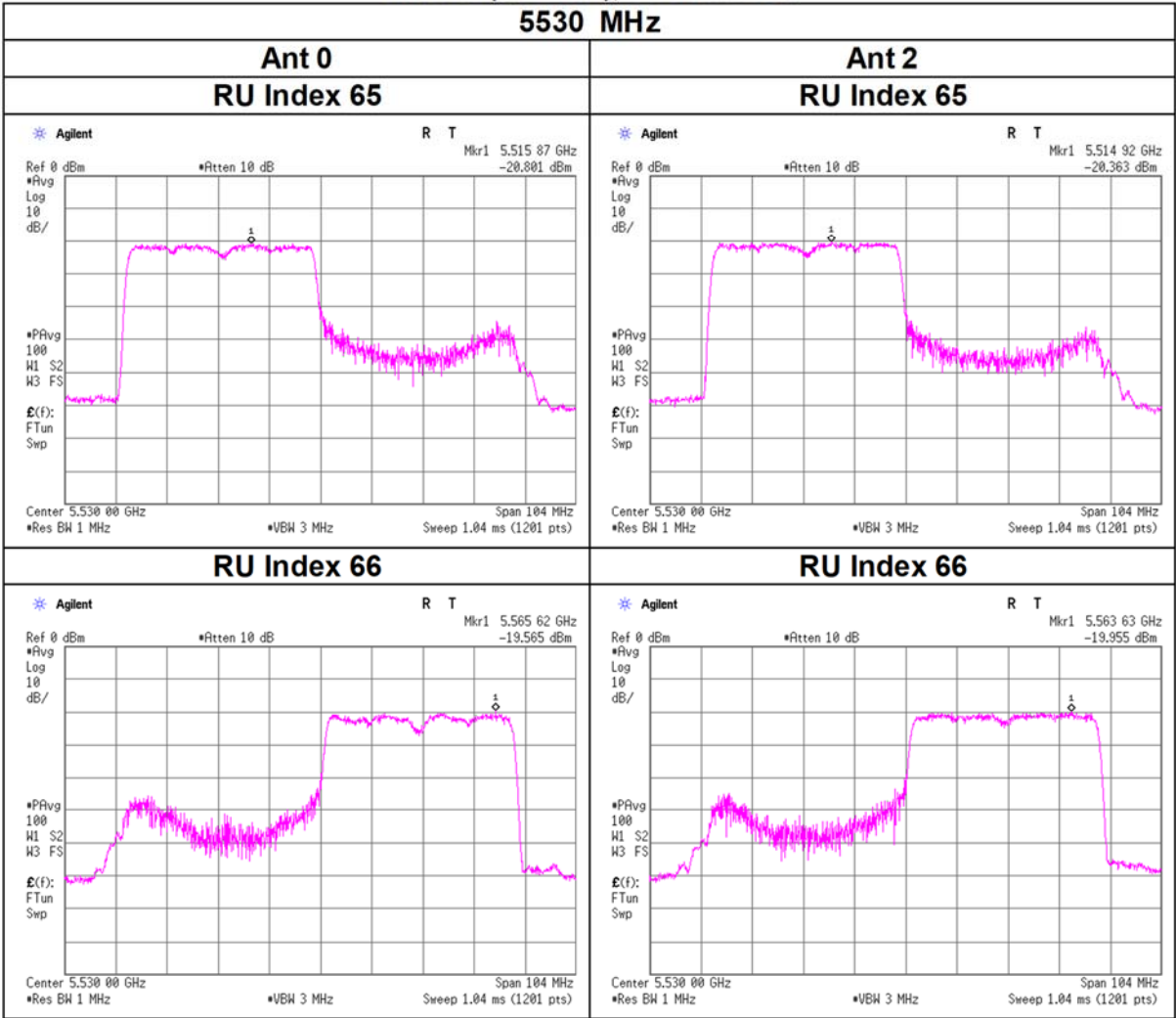
Maximum Power Spectral Density

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



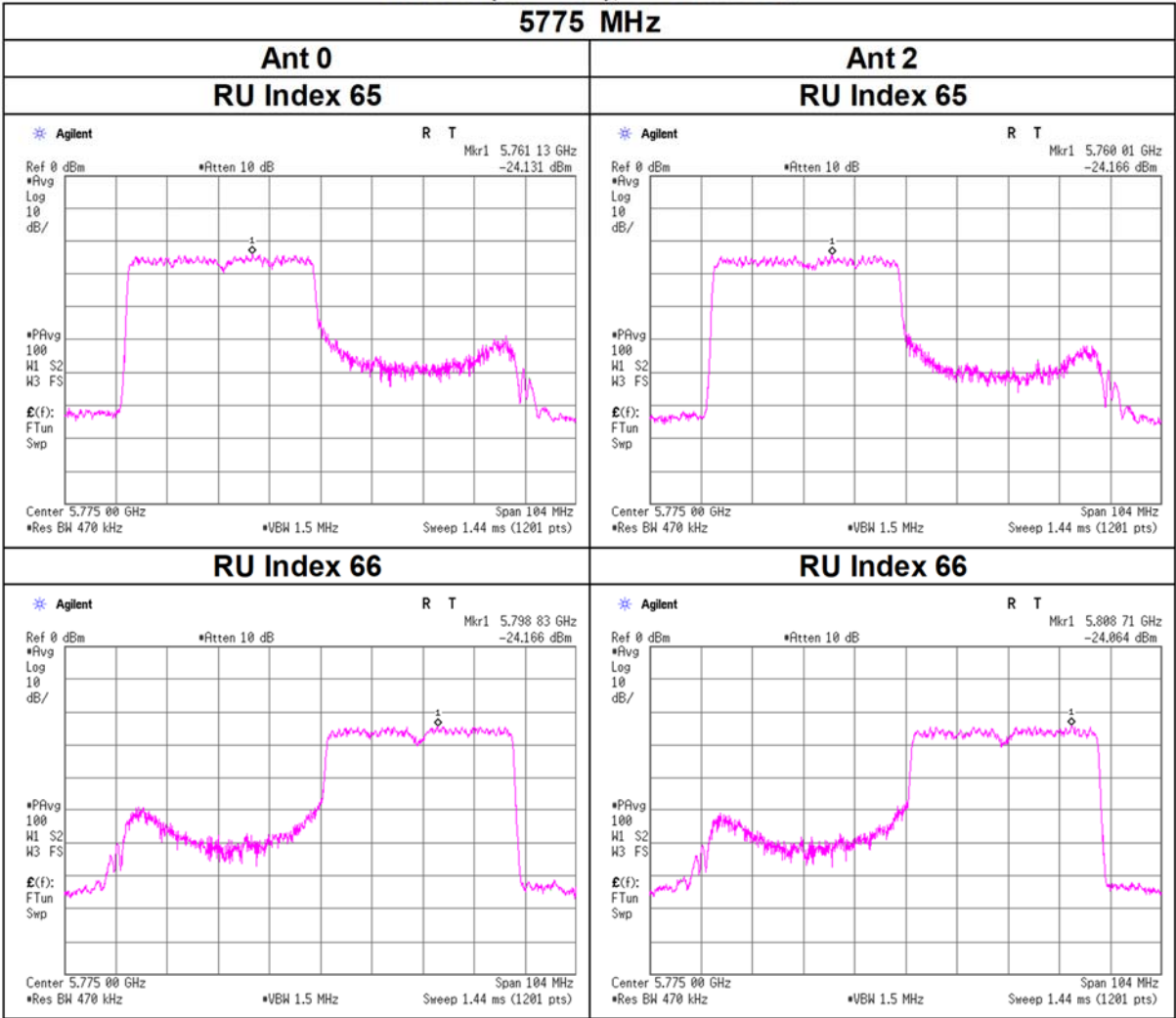
Maximum Power Spectral Density

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



Maximum Power Spectral Density

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



Maximum Power Spectral Density

Test place Shonan EMC Lab. No.1 Measurement Room
Date March 5, 2024
Temperature / Humidity 22 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 996-tone RU Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0	Ant 2	Sum					Ant 0	Ant 2	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5210	67	0.13	0.14	0.26	-5.79	11.00	16.79		0.15	0.35	0.50	-3.01	17.00	20.01	
5290	67	0.14	0.17	0.30	-5.22	11.00	16.22		0.16	0.42	0.58	-2.36	17.00	19.36	

Ant 0										Ant 2						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5210	67	1.58	-	-23.54	2.95	10.01	0.70	-9.00	-8.30	-23.14	2.95	10.00	4.07	-8.61	-4.54	
5290	67	1.58	-	-23.25	2.96	10.01	0.70	-8.69	-7.99	-22.35	2.96	10.00	4.07	-7.81	-3.74	

Sample Calculation:

PSD: Power Spectral Density

PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

Ant 0 + Ant 2 11ax-80(OFDMA)(SDM), 996-tone RU Applied limit: 15.407, Client

Tested Frequency	RU Index	PSD (Cond.)							PSD (e.i.r.p.)						
		Antenna			Result	Limit	Margin		Antenna			Result	Limit	Margin	
		Ant 0	Ant 2	Sum					Ant 0	Ant 2	Sum				
[MHz]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]		[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5530	67	0.13	0.14	0.27	-5.76	11.00	16.76		0.15	0.35	0.50	-2.99	17.00	19.99	
5775	67	0.06	0.06	0.12	-9.27	30.00	39.27		0.07	0.14	0.21	-6.81	36.00	42.81	

Ant 0										Ant 2						
Tested Frequency	RU Index	Duty Factor	RBW Conversion Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	
[MHz]		[dB]	[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	
5530	67	1.58	-	-23.52	2.98	10.01	0.70	-8.95	-8.25	-23.17	2.98	10.01	4.07	-8.60	-4.53	
5775	67	1.58	0.27	-26.96	3.00	10.01	0.70	-12.10	-11.40	-27.33	3.00	10.02	4.07	-12.46	-8.66	

Sample Calculation:

PSD: Power Spectral Density

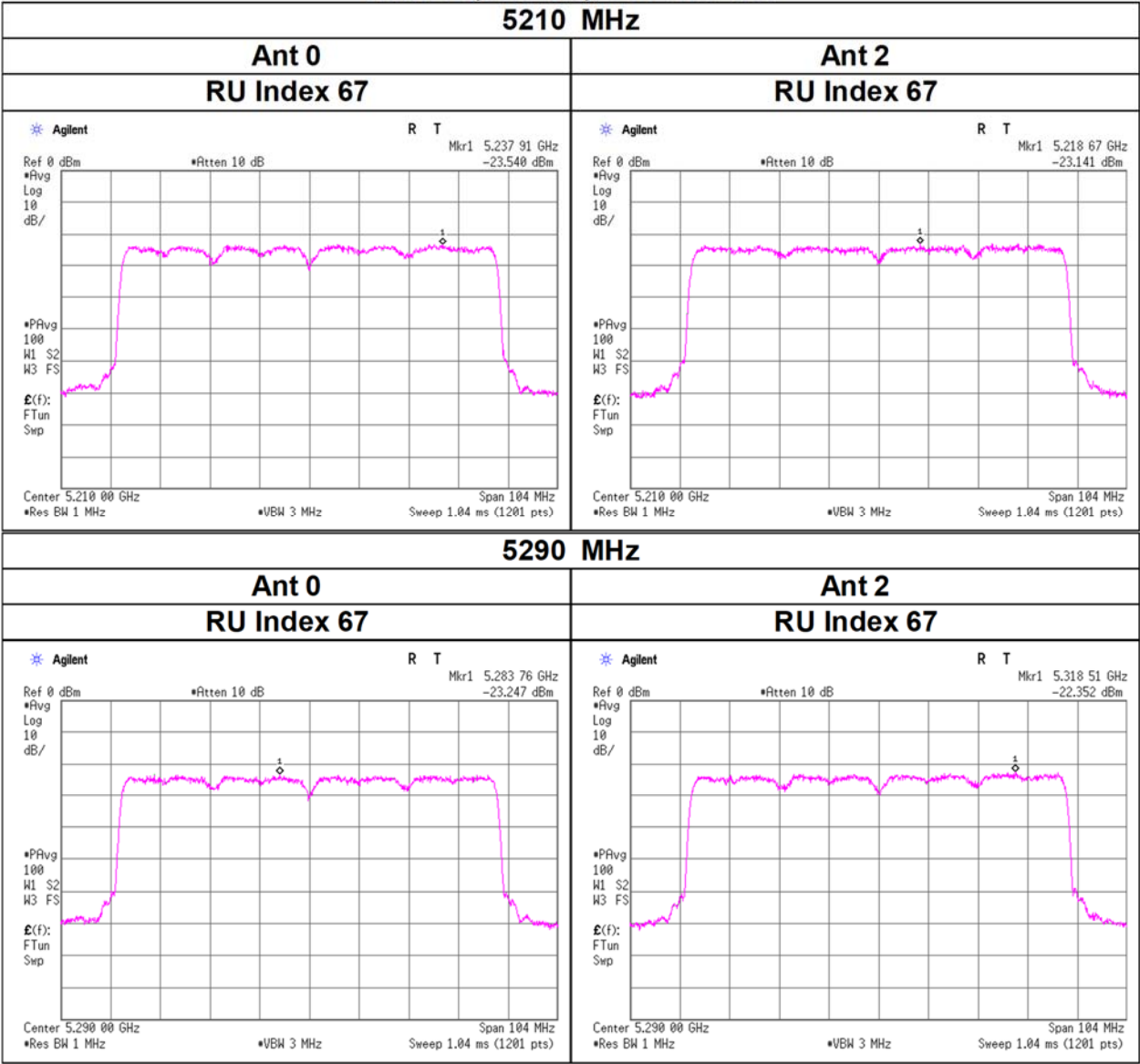
PSD (Conducted) Result = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Conversion Factor

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

RBW Conversion Factor = $10 \times \log (500 \text{ [kHz]} / 470 \text{ [kHz]})$

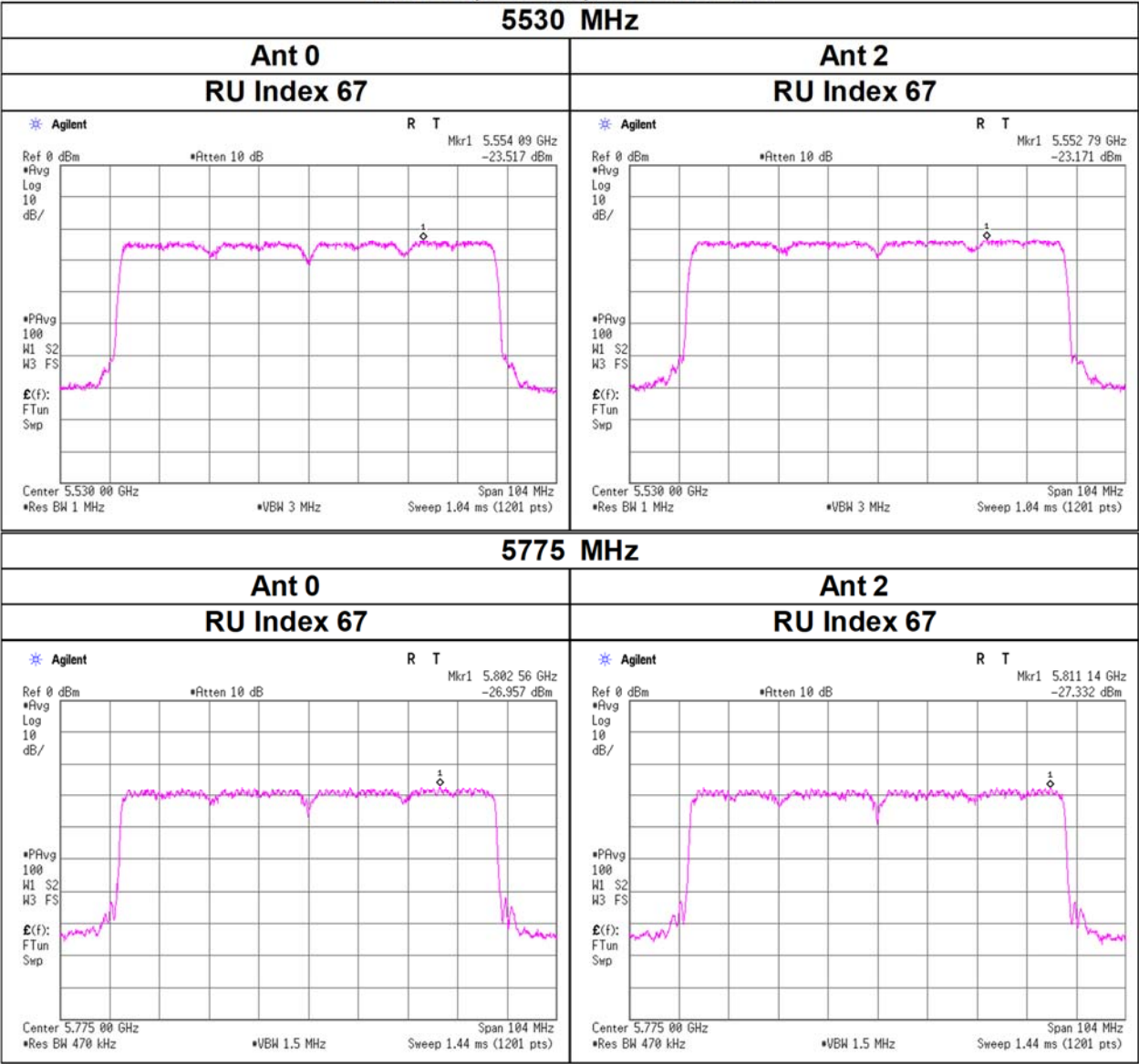
Maximum Power Spectral Density

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



Maximum Power Spectral Density

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



Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 7, 2023	November 21, 2023	November 27, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	24 deg.C, 72 %RH	21 deg.C, 46 %RH	22 deg.C, 43 %RH
Engineer	Yusuke Tanikawara	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kouki Yamada
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5180 MHz, Ant 2				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	46.66	32.17	13.89	36.09	2.37	59.00	73.9	14.9	318	169	-
Hori.	15540.000	PK	45.37	39.47	14.38	35.27	-9.54	54.41	73.9	19.4	150	0	Floor noise
Hori.	5150.000	AV	33.10	32.17	13.89	36.09	2.37	45.44	53.9	8.4	318	169	VBW:2 kHz
Hori.	15540.000	AV	32.49	39.47	14.38	35.27	-9.54	41.53	53.9	12.3	150	0	VBW:2 kHz, Floor noise
Vert.	5150.000	PK	46.54	32.17	13.89	36.09	2.37	58.88	73.9	15.0	114	124	-
Vert.	15540.000	PK	45.42	39.47	14.38	35.27	-9.54	54.46	73.9	19.4	150	0	Floor noise
Vert.	5150.000	AV	33.05	32.17	13.89	36.09	2.37	45.39	53.9	8.5	114	124	VBW:2 kHz
Vert.	15540.000	AV	32.54	39.47	14.38	35.27	-9.54	41.58	53.9	12.3	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	48.45	36.23	11.58	35.93	-9.54	50.79	-44.44	-27.0	17.4	105	77	-
Vert.	10360.000	PK	47.62	36.23	11.58	35.93	-9.54	49.96	-45.27	-27.0	18.2	135	233	-

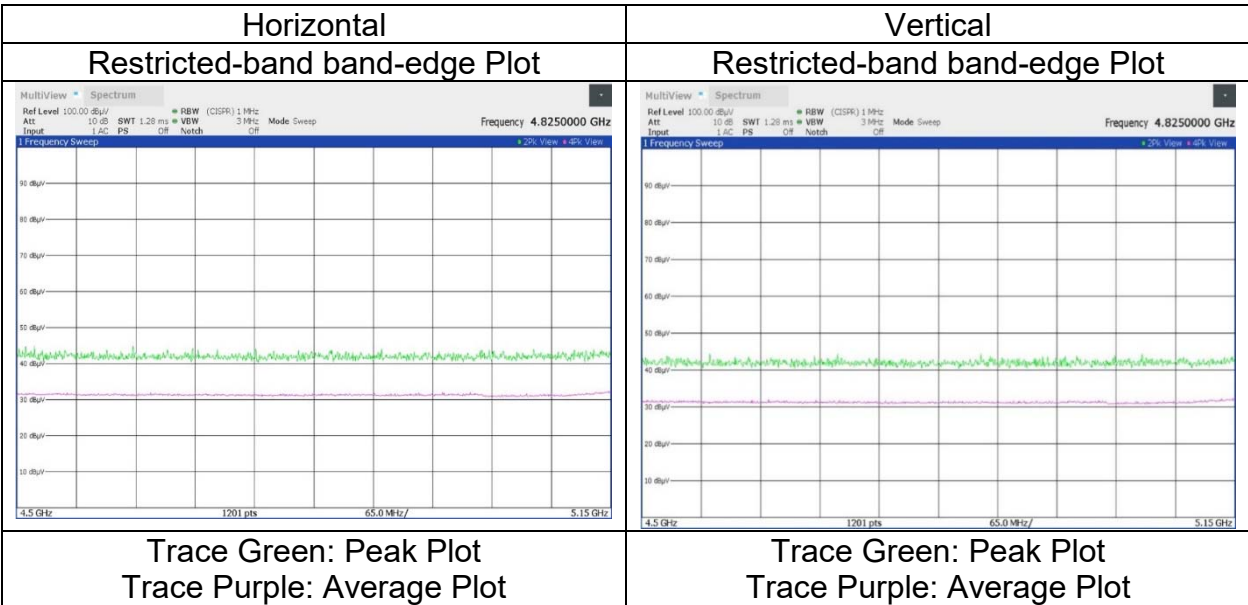
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2
Date	November 2, 2023	November 7, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	21 deg.C, 51 %RH	24 deg.C, 72 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
Mode	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11a 5240 MHz, Ant 2			

(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.	15720.000	PK	45.31	39.70	14.45	35.29	-9.54	54.63	73.9	19.2	150	0	Floor noise
Hori.	15720.000	AV	32.48	39.70	14.45	35.29	-9.54	41.80	53.9	12.1	150	0	VBW:2 kHz, Floor noise
Vert.	15720.000	PK	45.60	39.70	14.45	35.29	-9.54	54.92	73.9	18.9	150	0	Floor noise
Vert.	15720.000	AV	32.40	39.70	14.45	35.29	-9.54	41.72	53.9	12.1	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	46.37	36.41	11.63	35.81	-9.54	49.06	-46.17	-27.0	19.1	106	72	-
Vert.	10480.000	PK	45.53	36.41	11.63	35.81	-9.54	48.22	-47.01	-27.0	20.0	153	224	-

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 7, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	24 deg.C, 72 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Yusuke Tanikawara (1 GHz -6.4 GHz)	Miku Ikudome (6.4 GHz -10 GHz)	Miku Ikudome (10 GHz -18 GHz)	Miku Ikudome (18 GHz -26.5 GHz)	Kenichi Adachi (26.5 GHz -40 GHz)
Mode	Tx 11a 5320 MHz, Ant 2				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.94	32.16	13.98	36.13	2.37	58.32	73.9	15.5	313	183	-
Hori.	10640.000	PK	45.50	37.02	11.70	35.73	-9.54	48.95	73.9	24.9	179	58	-
Hori.	15960.000	PK	45.15	39.96	14.55	35.32	-9.54	54.80	73.9	19.1	150	0	Floor noise
Hori.	5350.000	AV	32.83	32.16	13.98	36.13	2.37	45.21	53.9	8.6	313	183	VBW:2 kHz
Hori.	10640.000	AV	32.31	37.02	11.70	35.73	-9.54	35.76	53.9	18.1	179	58	VBW:2 kHz
Hori.	15960.000	AV	32.46	39.96	14.55	35.32	-9.54	42.11	53.9	11.7	150	0	VBW:2 kHz, Floor noise
Vert.	5350.000	PK	46.07	32.16	13.98	36.13	2.37	58.45	73.9	15.4	183	124	-
Vert.	10640.000	PK	45.89	37.02	11.70	35.73	-9.54	49.34	73.9	24.5	198	162	-
Vert.	15960.000	PK	45.24	39.96	14.55	35.32	-9.54	54.89	73.9	19.0	150	0	Floor noise
Vert.	5350.000	AV	32.87	32.16	13.98	36.13	2.37	45.25	53.9	8.6	183	124	VBW:2 kHz
Vert.	10640.000	AV	32.28	37.02	11.70	35.73	-9.54	35.73	53.9	18.1	198	162	VBW:2 kHz
Vert.	15960.000	AV	32.32	39.96	14.55	35.32	-9.54	41.97	53.9	11.9	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 7, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	24 deg.C, 72 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Yusuke Tanikawara	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5500 MHz, Ant 2				

(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.	11000.000	PK	45.60	37.42	-23.67	-	-9.54	49.81	73.9	24.0	101	51	-
Hori.	5460.000	AV	32.21	32.46	-22.11	-	2.37	44.93	53.9	8.9	271	171	VBW:2 kHz
Hori.	11000.000	AV	32.33	37.42	-23.67	-	-9.54	36.54	53.9	17.3	101	51	VBW:2 kHz
Vert.	11000.000	PK	45.65	37.42	-23.67	-	-9.54	49.86	73.9	24.0	153	239	-
Vert.	5460.000	AV	32.11	32.46	-22.11	-	2.37	44.83	53.9	9.0	224	116	VBW:2 kHz
Vert.	11000.000	AV	32.60	37.42	-23.67	-	-9.54	36.81	53.9	17.0	153	239	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	45.29	32.46	-22.11	-	2.37	58.01	-37.22	-27.0	10.2	271	171	-
Hori.	5470.000	PK	45.45	32.49	-22.12	-	2.37	58.19	-37.04	-27.0	10.0	271	171	-
Hori.	16500.000	PK	45.27	39.81	-19.70	-	-9.54	55.84	-39.39	-27.0	12.3	150	0	-
Vert.	5460.000	PK	45.14	32.46	-22.11	-	2.37	57.86	-37.37	-27.0	10.3	224	116	-
Vert.	5470.000	PK	45.31	32.49	-22.12	-	2.37	58.05	-37.18	-27.0	10.1	224	116	-
Vert.	16500.000	PK	45.43	39.81	-19.70	-	-9.54	56.00	-39.23	-27.0	12.2	150	0	-

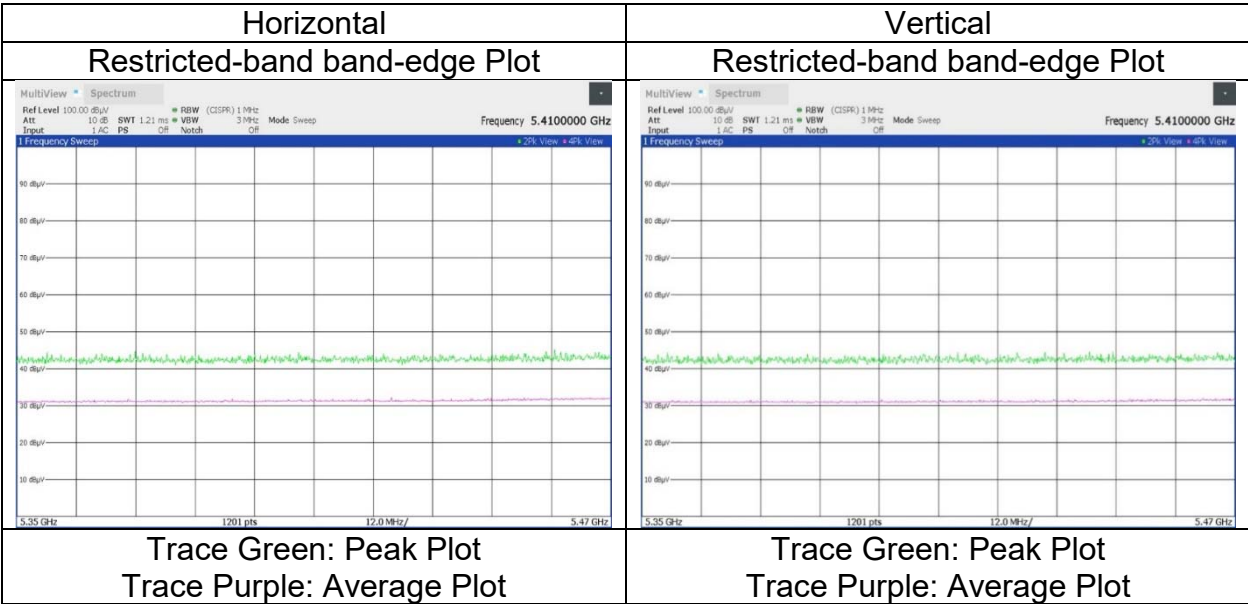
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2
Date	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Miku Ikudome	Hirosasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5580 MHz, Ant 2			

(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.	11160.000	PK	48.10	37.51	11.99	35.55	-9.54	52.51	73.9	21.3	141	289	-
Hori.	11160.000	AV	34.30	37.51	11.99	35.55	-9.54	38.71	53.9	15.1	141	289	VBW:2 kHz
Vert.	11160.000	PK	48.18	37.51	11.99	35.55	-9.54	52.59	73.9	21.3	125	235	-
Vert.	11160.000	AV	34.49	37.51	11.99	35.55	-9.54	38.90	53.9	15.0	125	235	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	44.28	39.42	15.29	34.51	-9.54	54.94	-40.29	-27.0	13.2	150	0	Floor noise
Vert.	16740.000	PK	44.63	39.42	15.29	34.51	-9.54	55.29	-39.94	-27.0	12.9	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Yusuke Tanikawara	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5700 MHz, Ant 2				

(above 1 GHz Inside of the restricted band)

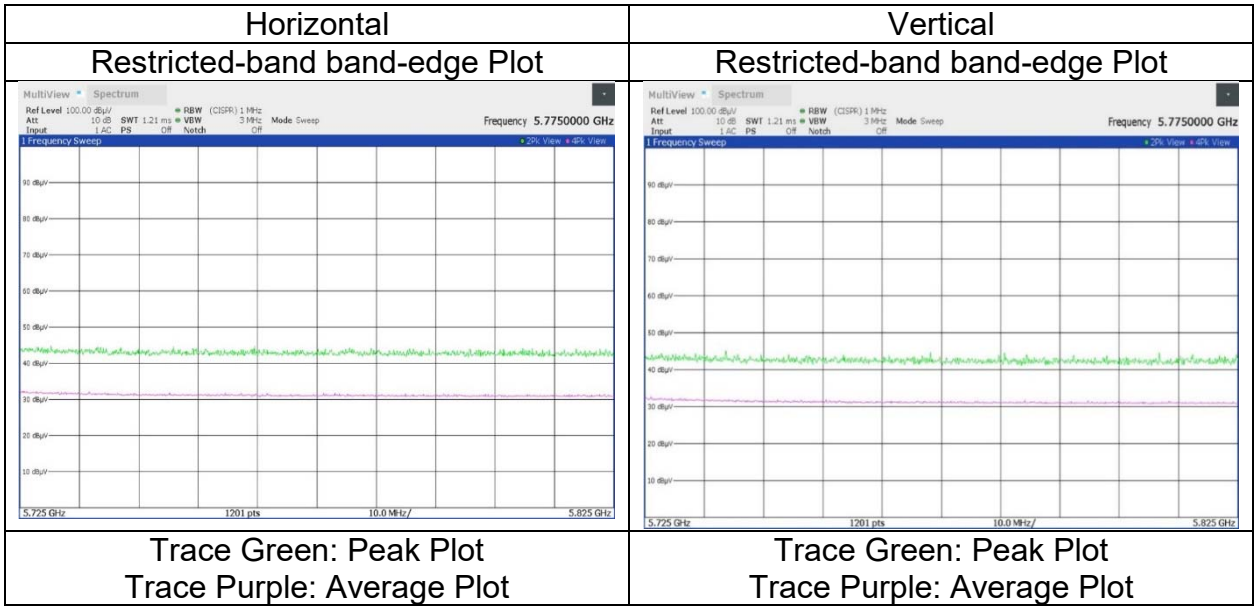
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11400.000	PK	47.48	37.90	12.15	35.53	-9.54	52.46	73.9	21.4	140	279	-
Hori.	11400.000	AV	34.27	37.90	12.15	35.53	-9.54	39.25	53.9	14.6	140	279	VBW:2 kHz
Vert.	11400.000	PK	47.46	37.90	12.15	35.53	-9.54	52.44	73.9	21.4	122	239	-
Vert.	11400.000	AV	34.58	37.90	12.15	35.53	-9.54	39.56	53.9	14.3	122	239	VBW:2 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant. Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.72	33.03	14.14	36.13	2.37	59.13	-36.10	-27.0	9.1	345	181	-
Hori.	17100.000	PK	44.66	39.90	15.44	34.13	-9.54	56.33	-38.90	-27.0	11.9	150	0	Floor noise
Vert.	5725.000	PK	46.13	33.03	14.14	36.13	2.37	59.54	-35.69	-27.0	8.6	166	124	-
Vert.	17100.000	PK	44.62	39.90	15.44	34.13	-9.54	56.29	-38.94	-27.0	11.9	150	0	Floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*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 (3.94 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Yusuke Tanikawara	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5745 MHz, Ant 2				

(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.	11490.000	PK	47.44	37.94	12.22	35.52	-9.54	52.54	73.9	21.3	148	189	-
Hori.	11490.000	AV	34.62	37.94	12.22	35.52	-9.54	39.72	53.9	14.1	148	189	VBW:2 kHz
Vert.	11490.000	PK	47.31	37.94	12.22	35.52	-9.54	52.41	73.9	21.4	121	241	-
Vert.	11490.000	AV	34.52	37.94	12.22	35.52	-9.54	39.62	53.9	14.2	121	241	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.76	32.96	14.10	36.14	2.37	58.05	-37.18	-27.0	10.1	291	155	-
Hori.	5700.000	PK	45.17	33.00	14.12	36.13	2.37	58.53	-36.70	10.0	46.7	291	155	-
Hori.	5720.000	PK	46.12	33.02	14.14	36.13	2.37	59.52	-35.71	15.6	51.3	291	155	-
Hori.	5725.000	PK	55.21	33.03	14.14	36.13	2.37	68.62	-26.61	27.0	53.6	291	155	-
Hori.	17235.000	PK	44.89	40.17	15.49	34.15	-9.54	56.86	-38.37	-27.0	11.3	150	0	Floor noise
Vert.	5650.000	PK	45.08	32.96	14.10	36.14	2.37	58.37	-36.86	-27.0	9.8	129	122	-
Vert.	5700.000	PK	45.31	33.00	14.12	36.13	2.37	58.67	-36.56	10.0	46.5	129	122	-
Vert.	5720.000	PK	46.24	33.02	14.14	36.13	2.37	59.64	-35.59	15.6	51.1	129	122	-
Vert.	5725.000	PK	57.34	33.03	14.14	36.13	2.37	70.75	-24.48	27.0	51.4	129	122	-
Vert.	17235.000	PK	44.67	40.17	15.49	34.15	-9.54	56.64	-38.59	-27.0	11.5	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2
Date	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Miku Ikudome	Hirosasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5785 MHz, Ant 2			

(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.	11570.000	PK	48.79	37.95	12.25	35.51	-9.54	53.94	73.9	19.9	147	193	-
Hori.	11570.000	AV	34.43	37.95	12.25	35.51	-9.54	39.58	53.9	14.3	147	193	VBW:2 kHz
Vert.	11570.000	PK	47.83	37.95	12.25	35.51	-9.54	52.98	73.9	20.9	132	248	-
Vert.	11570.000	AV	34.26	37.95	12.25	35.51	-9.54	39.41	53.9	14.4	132	248	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	44.70	40.28	15.53	34.17	-9.54	56.80	-38.43	-27.0	11.4	150	0	Floor noise
Vert.	17355.000	PK	44.65	40.28	15.53	34.17	-9.54	56.75	-38.48	-27.0	11.4	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 24, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 45 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Yusuke Tanikawara	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11a 5825 MHz, Ant 2				

(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.	11650.000	PK	48.41	37.96	12.31	35.51	-9.54	53.63	73.9	20.2	145	197	-
Hori.	11650.000	AV	34.78	37.96	12.31	35.51	-9.54	40.00	53.9	13.9	145	197	VBW:2 kHz
Vert.	11650.000	PK	47.93	37.96	12.31	35.51	-9.54	53.15	73.9	20.7	138	274	-
Vert.	11650.000	AV	34.44	37.96	12.31	35.51	-9.54	39.66	53.9	14.2	138	274	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.51	33.13	14.20	36.12	2.37	60.09	-35.14	27.0	62.1	315	156	-
Hori.	5855.000	PK	46.10	33.14	14.20	36.12	2.37	59.69	-35.54	15.6	51.1	315	156	-
Hori.	5875.000	PK	45.43	33.17	14.21	36.12	2.37	59.06	-36.17	10.0	46.1	315	156	-
Hori.	5925.000	PK	45.06	33.27	14.22	36.12	2.37	58.80	-36.43	-27.0	9.4	315	156	-
Hori.	17475.000	PK	44.84	40.35	15.58	34.19	-9.54	57.04	-38.19	-27.0	11.1	150	0	Floor noise
Vert.	5850.000	PK	46.83	33.13	14.20	36.12	2.37	60.41	-34.82	27.0	61.8	144	128	-
Vert.	5855.000	PK	46.65	33.14	14.20	36.12	2.37	60.24	-34.99	15.6	50.5	144	128	-
Vert.	5875.000	PK	45.32	33.17	14.21	36.12	2.37	58.95	-36.28	10.0	46.2	144	128	-
Vert.	5925.000	PK	45.21	33.27	14.22	36.12	2.37	58.95	-36.28	-27.0	9.2	144	128	-
Vert.	17475.000	PK	45.07	40.35	15.58	34.19	-9.54	57.27	-37.96	-27.0	10.9	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 27, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 27, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 51 %RH
Engineer	Miku Ikudome	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kouki Yamada
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 SDM 5180 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	46.34	32.17	13.89	36.09	2.37	58.68	73.9	15.2	298	119	-
Hori.	15540.000	PK	45.08	39.47	14.38	35.27	-9.54	54.12	73.9	19.7	150	0	Floor noise
Hori.	5150.000	AV	33.27	32.17	13.89	36.09	2.37	45.61	53.9	8.2	298	119	VBW:2 kHz, Floor noise
Hori.	15540.000	AV	32.68	39.47	14.38	35.27	-9.54	41.72	53.9	12.1	150	0	VBW:2 kHz, Floor noise
Vert.	5150.000	PK	46.48	32.17	13.89	36.09	2.37	58.82	73.9	15.0	261	125	-
Vert.	15540.000	PK	45.18	39.47	14.38	35.27	-9.54	54.22	73.9	19.6	150	0	Floor noise
Vert.	5150.000	AV	33.31	32.17	13.89	36.09	2.37	45.65	53.9	8.2	261	125	VBW:2 kHz
Vert.	15540.000	AV	32.73	39.47	14.38	35.27	-9.54	41.77	53.9	12.1	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 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, A/V: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	47.55	36.23	11.58	35.93	-9.54	49.89	-45.34	-27.0	18.3	137	260	-
Vert.	10360.000	PK	47.80	36.23	11.58	35.93	-9.54	50.14	-45.09	-27.0	18.0	141	208	-

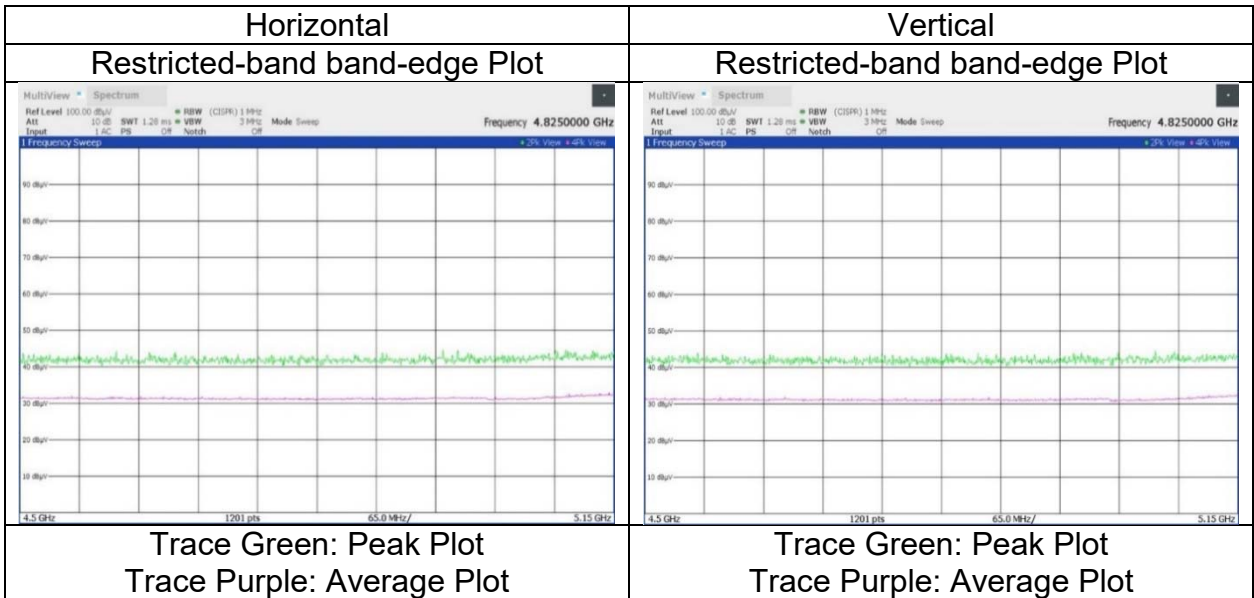
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023	
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH	
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11n-20 (SDM) 5240 MHz, Ant 0 + Ant 2					

(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.	15720.000	PK	45.53	39.70	14.45	35.29	-9.54	54.85	73.9	19.0	150	0	Floor noise
Hori.	15720.000	AV	33.85	39.70	14.45	35.29	-9.54	43.17	53.9	10.7	150	0	VBW:2 kHz, Floor noise
Vert.	15720.000	PK	45.28	39.70	14.45	35.29	-9.54	54.60	73.9	19.3	150	0	Floor noise
Vert.	15720.000	AV	33.67	39.70	14.45	35.29	-9.54	42.99	53.9	10.9	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	46.69	36.41	11.63	35.81	-9.54	49.38	-45.85	-27.0	18.8	134	274	-
Vert.	10480.000	PK	47.09	36.41	11.63	35.81	-9.54	49.78	-45.45	-27.0	18.4	141	185	-

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 27, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023	November 29, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH	21 deg.C, 38 %RH
Engineer	Miku Ikudome	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5320 MHz, Ant 0 + Ant 2					

(above 1 GHz Inside of the restricted band)

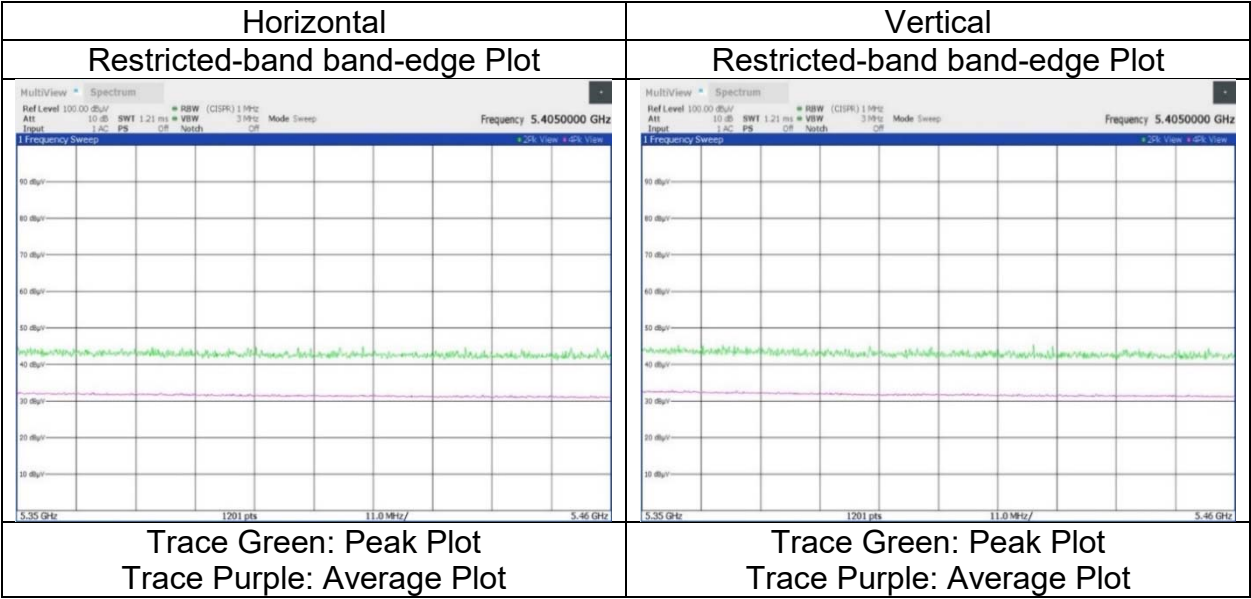
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5350.000	PK	46.12	32.16	13.97	36.13	2.37	58.49	73.9	15.4	255	127	-	-
Hori.	10640.000	PK	47.04	37.02	11.70	35.73	-9.54	50.49	73.9	23.4	155	307	-	-
Hori.	15960.000	PK	45.28	39.96	14.55	35.32	-9.54	54.93	73.9	18.9	150	0	Floor noise	-
Hori.	5350.000	AV	32.64	32.16	13.97	36.13	2.37	45.01	53.9	8.8	255	127	VBW:2 kHz	-
Hori.	10640.000	AV	34.24	37.02	11.70	35.73	-9.54	37.69	53.9	16.2	155	307	VBW:2 kHz	-
Hori.	15960.000	AV	33.83	39.96	14.55	35.32	-9.54	43.48	53.9	10.4	150	0	VBW:2 kHz, Floor noise	-
Vert.	5350.000	PK	46.63	32.16	13.97	36.13	2.37	59.00	73.9	14.9	152	118	-	-
Vert.	10640.000	PK	47.33	37.02	11.70	35.73	-9.54	50.78	73.9	23.1	145	183	-	-
Vert.	15960.000	PK	45.63	39.96	14.55	35.32	-9.54	55.28	73.9	18.6	150	0	Floor noise	-
Vert.	5350.000	AV	33.18	32.16	13.97	36.13	2.37	45.55	53.9	8.3	152	118	VBW:2 kHz	-
Vert.	10640.000	AV	34.40	37.02	11.70	35.73	-9.54	37.85	53.9	16.0	145	183	VBW:2 kHz	-
Vert.	15960.000	AV	33.34	39.96	14.55	35.32	-9.54	42.99	53.9	10.9	150	0	VBW:2 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5500 MHz, Ant 0 + Ant 2				

(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.	11000.000	PK	47.65	37.42	-23.67	-	-9.54	51.86	73.9	22.0	132	287	-
Hori.	5460.000	AV	31.82	32.46	-22.11	-	2.37	44.54	53.9	9.3	120	69	VBW:2 kHz
Hori.	11000.000	AV	34.96	37.42	-23.67	-	-9.54	39.17	53.9	14.7	132	287	VBW:2 kHz
Vert.	11000.000	PK	47.36	37.42	-23.67	-	-9.54	51.57	73.9	22.3	139	198	-
Vert.	5460.000	AV	31.78	32.46	-22.11	-	2.37	44.50	53.9	9.4	225	119	VBW:2 kHz
Vert.	11000.000	AV	34.52	37.42	-23.67	-	-9.54	38.73	53.9	15.1	139	198	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	44.69	32.46	-22.11	-	2.37	57.41	-37.82	-27.0	10.8	120	69	-
Hori.	5470.000	PK	45.10	32.49	-22.12	-	2.37	57.84	-37.39	-27.0	10.3	120	69	-
Hori.	16500.000	PK	45.83	39.81	-19.70	-	-9.54	56.40	-38.83	-27.0	11.8	150	0	Floor noise
Vert.	5460.000	PK	44.72	32.46	-22.11	-	2.37	57.44	-37.79	-27.0	10.7	225	119	-
Vert.	5470.000	PK	45.07	32.49	-22.12	-	2.37	57.81	-37.42	-27.0	10.4	225	119	-
Vert.	16500.000	PK	45.55	39.81	-19.70	-	-9.54	56.12	-39.11	-27.0	12.1	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5580 MHz, Ant 0 + Ant 2				

(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.	11160.000	PK	48.00	37.51	11.99	35.55	-9.54	52.41	73.9	21.4	142	306	-
Hori.	11160.000	AV	34.88	37.51	11.99	35.55	-9.54	39.29	53.9	14.6	142	306	VBW:2 kHz
Vert.	11160.000	PK	47.81	37.51	11.99	35.55	-9.54	52.22	73.9	21.6	137	193	-
Vert.	11160.000	AV	34.63	37.51	11.99	35.55	-9.54	39.04	53.9	14.8	137	193	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	45.74	39.42	15.29	34.51	-9.54	56.40	-38.83	-27.0	11.8	150	0	Floor noise
Vert.	16740.000	PK	45.26	39.42	15.29	34.51	-9.54	55.92	-39.31	-27.0	12.3	100	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5700 MHz, Ant 0 + Ant 2				

(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.	11400.000	PK	46.61	37.90	12.15	35.53	-9.54	51.59	73.9	22.3	144	327	-
Hori.	11400.000	AV	33.48	37.90	12.15	35.53	-9.54	38.46	53.9	15.4	144	327	VBW:2 kHz
Vert.	11400.000	PK	47.25	37.90	12.15	35.53	-9.54	52.23	73.9	21.6	132	235	-
Vert.	11400.000	AV	33.86	37.90	12.15	35.53	-9.54	38.84	53.9	15.0	132	235	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.04	33.03	14.14	36.13	2.37	58.45	-36.78	-27.0	9.7	236	125	-
Hori.	17100.000	PK	45.49	39.90	15.44	34.13	-9.54	57.16	-38.07	-27.0	11.0	150	0	Floor noise
Vert.	5725.000	PK	45.66	33.03	14.14	36.13	2.37	59.07	-36.16	-27.0	9.1	210	118	-
Vert.	17100.000	PK	45.22	39.90	15.44	34.13	-9.54	56.89	-38.34	-27.0	11.3	150	0	Floor noise

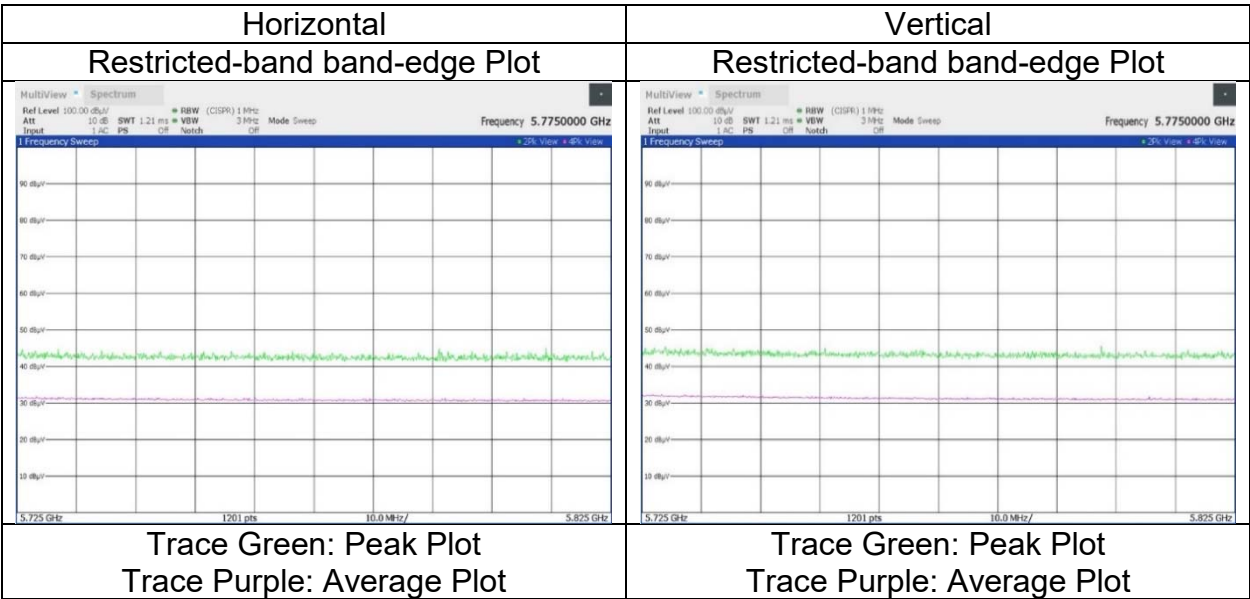
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5745 MHz, Ant 0 + Ant 2				

(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.	11490.000	PK	47.40	37.94	12.22	35.52	-9.54	52.50	73.9	21.4	133	194	-
Hori.	11490.000	AV	34.27	37.94	12.22	35.52	-9.54	39.37	53.9	14.5	133	194	VBW:2 kHz
Vert.	11490.000	PK	47.35	37.94	12.22	35.52	-9.54	52.45	73.9	21.4	130	224	-
Vert.	11490.000	AV	34.13	37.94	12.22	35.52	-9.54	39.23	53.9	14.6	130	224	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.12	32.96	14.10	36.14	2.37	57.41	-37.82	-27.0	10.8	231	123	-
Hori.	5700.000	PK	44.23	33.00	14.12	36.13	2.37	57.59	-37.64	10.0	47.6	231	123	-
Hori.	5720.000	PK	44.51	33.02	14.14	36.13	2.37	57.91	-37.32	15.6	52.9	231	123	-
Hori.	5725.000	PK	51.99	33.03	14.14	36.13	2.37	65.40	-29.83	27.0	56.8	231	123	-
Hori.	17235.000	PK	45.73	40.17	15.49	34.15	-9.54	57.70	-37.53	-27.0	10.5	150	0	Floor noise
Vert.	5650.000	PK	44.22	32.96	14.10	36.14	2.37	57.51	-37.72	-27.0	10.7	232	122	-
Vert.	5700.000	PK	44.88	33.00	14.12	36.13	2.37	58.24	-36.99	10.0	46.9	232	122	-
Vert.	5720.000	PK	45.77	33.02	14.14	36.13	2.37	59.17	-36.06	15.6	51.6	232	122	-
Vert.	5725.000	PK	56.28	33.03	14.14	36.13	2.37	69.69	-25.54	27.0	52.5	232	122	-
Vert.	17235.000	PK	45.37	40.17	15.49	34.15	-9.54	57.34	-37.89	-27.0	10.8	150	0	Floor noise

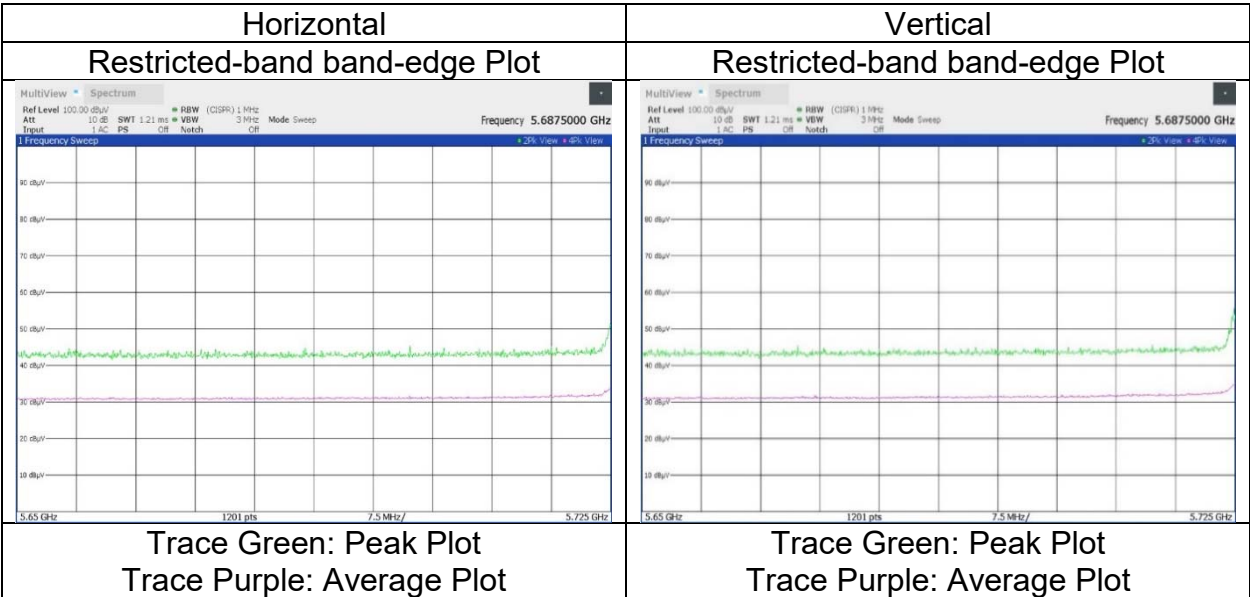
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result (EIRP [dBm]) = 10 * 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023	
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH	
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11n-20 (SDM) 5785 MHz, Ant 0 + Ant 2					

(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.	11570.000	PK	47.25	37.95	12.25	35.51	-9.54	52.40	73.9	21.5	136	204	-
Hori.	11570.000	AV	34.48	37.95	12.25	35.51	-9.54	39.63	53.9	14.2	136	204	VBW:2 kHz
Vert.	11570.000	PK	47.43	37.95	12.25	35.51	-9.54	52.58	73.9	21.3	142	238	-
Vert.	11570.000	AV	34.27	37.95	12.25	35.51	-9.54	39.42	53.9	14.4	142	238	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	45.10	40.28	15.53	34.17	-9.54	57.20	-38.03	-27.0	11.0	150	0	Floor noise
Vert.	17355.000	PK	45.22	40.28	15.53	34.17	-9.54	57.32	-37.91	-27.0	10.9	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 8, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	26 deg.C, 39 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Hiromasa Sato	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-20 (SDM) 5825 MHz, Ant 0 + Ant 2				

(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.	11650.000	PK	48.35	37.96	12.31	35.51	-9.54	53.57	73.9	20.3	142	194	-
Hori.	11650.000	AV	34.86	37.96	12.31	35.51	-9.54	40.08	53.9	13.8	142	194	VBW:2 kHz
Vert.	11650.000	PK	48.12	37.96	12.31	35.51	-9.54	53.34	73.9	20.5	138	236	-
Vert.	11650.000	AV	34.57	37.96	12.31	35.51	-9.54	39.79	53.9	14.1	138	236	VBW:2 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.08	33.13	14.20	36.12	2.37	58.66	-36.57	27.0	63.5	213	125	-
Hori.	5855.000	PK	44.68	33.14	14.20	36.12	2.37	58.27	-36.96	15.6	52.5	213	125	-
Hori.	5875.000	PK	44.46	33.17	14.21	36.12	2.37	58.09	-37.14	10.0	47.1	213	125	-
Hori.	5925.000	PK	44.34	33.27	14.22	36.12	2.37	58.08	-37.15	-27.0	10.1	213	125	-
Hori.	17475.000	PK	46.07	40.35	15.58	34.19	-9.54	58.27	-36.96	-27.0	9.9	150	0	Floor noise
Vert.	5850.000	PK	45.46	33.13	14.20	36.12	2.37	59.04	-36.19	27.0	63.1	223	120	-
Vert.	5855.000	PK	45.38	33.14	14.20	36.12	2.37	58.97	-36.26	15.6	51.8	223	120	-
Vert.	5875.000	PK	45.17	33.17	14.21	36.12	2.37	58.80	-36.43	10.0	46.4	223	120	-
Vert.	5925.000	PK	44.60	33.27	14.22	36.12	2.37	58.34	-36.89	-27.0	9.8	223	120	-
Vert.	17475.000	PK	45.83	40.35	15.58	34.19	-9.54	58.03	-37.20	-27.0	10.2	150	0	Floor noise

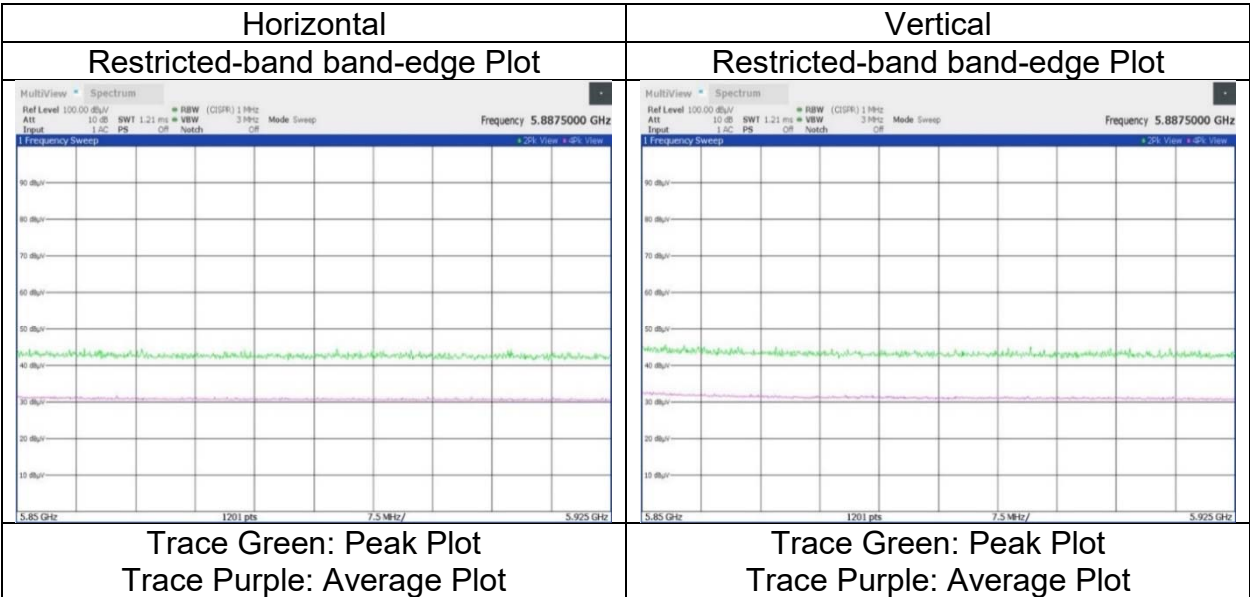
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Model	Tx 11ac-20 (SDM) 5180 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.28	32.17	13.89	36.09	2.37	57.62	73.9	16.2	161	77	-
Hori.	15540.000	PK	45.64	39.47	14.38	35.27	-9.54	54.68	73.9	19.2	150	0	Floor noise
Hori.	5150.000	AV	33.45	32.17	13.89	36.09	2.37	45.79	53.9	8.1	161	77	VBW:5 kHz
Hori.	15540.000	AV	33.67	39.47	14.38	35.27	-9.54	42.71	53.9	11.1	150	0	VBW:5 kHz, Floor noise
Vert.	5150.000	PK	45.16	32.17	13.89	36.09	2.37	57.50	73.9	16.4	211	112	-
Vert.	15540.000	PK	45.62	39.47	14.38	35.27	-9.54	54.66	73.9	19.2	150	0	Floor noise
Vert.	5150.000	AV	33.15	32.17	13.89	36.09	2.37	45.49	53.9	8.4	211	112	VBW:5 kHz
Vert.	15540.000	AV	33.67	39.47	14.38	35.27	-9.54	42.71	53.9	11.1	150	0	VBW:5 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	47.66	36.23	11.58	35.93	-9.54	50.00	-45.23	-27.0	18.2	159	95	-
Vert.	10360.000	PK	47.07	36.23	11.58	35.93	-9.54	49.41	-45.82	-27.0	18.8	160	184	-

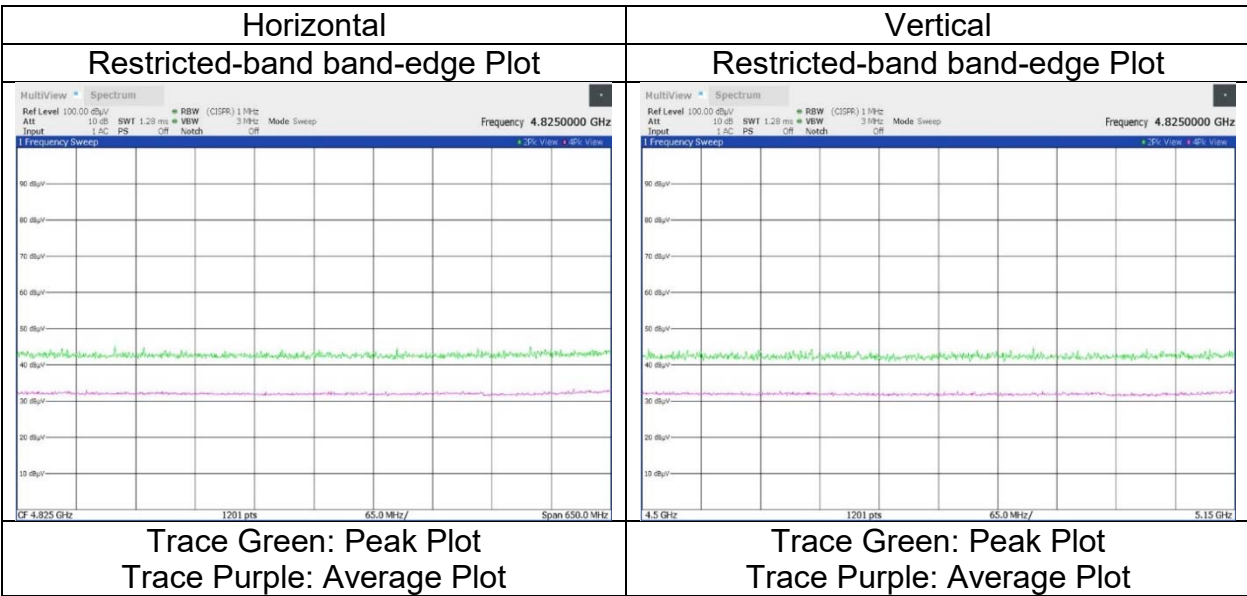
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-20 (SDM) 5240 MHz, Ant 0 + Ant 2				

(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.	15720.000	PK	45.37	39.70	14.45	35.29	-9.54	54.69	73.9	19.2	150	0	Floor noise
Hori.	15720.000	AV	33.77	39.70	14.45	35.29	-9.54	43.09	53.9	10.8	150	0	VBW:5 kHz, Floor noise
Vert.	15720.000	PK	45.53	39.70	14.45	35.29	-9.54	54.85	73.9	19.0	150	0	Floor noise
Vert.	15720.000	AV	34.05	39.70	14.45	35.29	-9.54	43.37	53.9	10.5	150	0	VBW:5 kHz, 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	46.11	36.41	11.63	35.81	-9.54	48.80	-46.43	-27.0	19.4	145	67	-
Vert.	10480.000	PK	46.41	36.41	11.63	35.81	-9.54	49.10	-46.13	-27.0	19.1	169	181	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 29, 2023	
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH	
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11ac-20 (SDM) 5320 MHz, Ant 0 + Ant 2					

(above 1 GHz Inside of the restricted band)

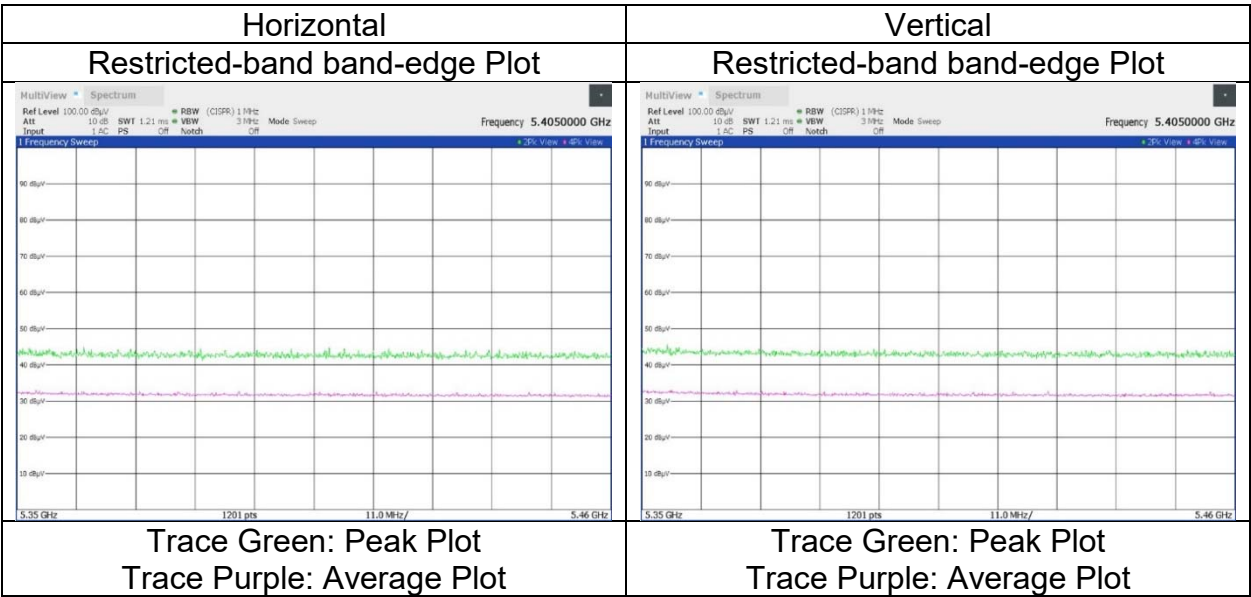
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.14	32.16	13.97	36.13	2.37	57.51	73.9	16.3	320	119	-
Hori.	10640.000	PK	45.89	37.02	11.70	35.73	-9.54	49.34	73.9	24.5	147	118	-
Hori.	15960.000	PK	45.31	39.96	14.55	35.32	-9.54	54.96	73.9	18.9	150	0	Floor noise
Hori.	5350.000	AV	33.02	32.16	13.97	36.13	2.37	45.39	53.9	8.5	320	119	VBW:5 kHz
Hori.	10640.000	AV	33.86	37.02	11.70	35.73	-9.54	37.31	53.9	16.5	147	118	VBW:5 kHz
Hori.	15960.000	AV	33.58	39.96	14.55	35.32	-9.54	43.23	53.9	10.6	150	0	VBW:5 kHz, Floor noise
Vert.	5350.000	PK	45.18	32.16	13.97	36.13	2.37	57.55	73.9	16.3	187	117	-
Vert.	10640.000	PK	45.82	37.02	11.70	35.73	-9.54	49.27	73.9	24.6	159	167	-
Vert.	15960.000	PK	45.36	39.96	14.55	35.32	-9.54	55.01	73.9	18.8	150	0	Floor noise
Vert.	5350.000	AV	33.06	32.16	13.97	36.13	2.37	45.43	53.9	8.4	187	117	VBW:5 kHz
Vert.	10640.000	AV	34.03	37.02	11.70	35.73	-9.54	37.48	53.9	16.4	159	167	VBW:5 kHz
Vert.	15960.000	AV	33.91	39.96	14.55	35.32	-9.54	43.56	53.9	10.3	150	0	VBW:5 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 29, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 38 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
Mode	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ac-20 (SDM) 5500 MHz, Ant 0 + Ant 2				

(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.	11000.000	PK	46.13	37.42	-23.67	-	-9.54	50.34	73.9	23.5	195	85	-
Hori.	5460.000	AV	32.74	32.46	-22.11	-	2.37	45.46	53.9	8.4	122	73	VBW:5 kHz
Hori.	11000.000	AV	34.44	37.42	-23.67	-	-9.54	38.65	53.9	15.2	195	85	VBW:5 kHz
Vert.	11000.000	PK	46.34	37.42	-23.67	-	-9.54	50.55	73.9	23.3	158	229	-
Vert.	5460.000	AV	32.68	32.46	-22.11	-	2.37	45.40	53.9	8.5	226	114	VBW:5 kHz
Vert.	11000.000	AV	34.25	37.42	-23.67	-	-9.54	38.46	53.9	15.4	158	229	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	44.92	32.46	-22.11	-	2.37	57.64	-37.59	-27.0	10.5	122	73	-
Hori.	5470.000	PK	45.06	32.49	-22.12	-	2.37	57.80	-37.43	-27.0	10.4	122	73	-
Hori.	16500.000	PK	45.35	39.81	-19.70	-	-9.54	55.92	-39.31	-27.0	12.3	150	0	Floor noise
Vert.	5460.000	PK	44.87	32.46	-22.11	-	2.37	57.59	-37.64	-27.0	10.6	226	114	-
Vert.	5470.000	PK	44.99	32.49	-22.12	-	2.37	57.73	-37.50	-27.0	10.5	226	114	-
Vert.	16500.000	PK	46.03	39.81	-19.70	-	-9.54	56.60	-38.63	-27.0	11.6	150	0	Floor noise

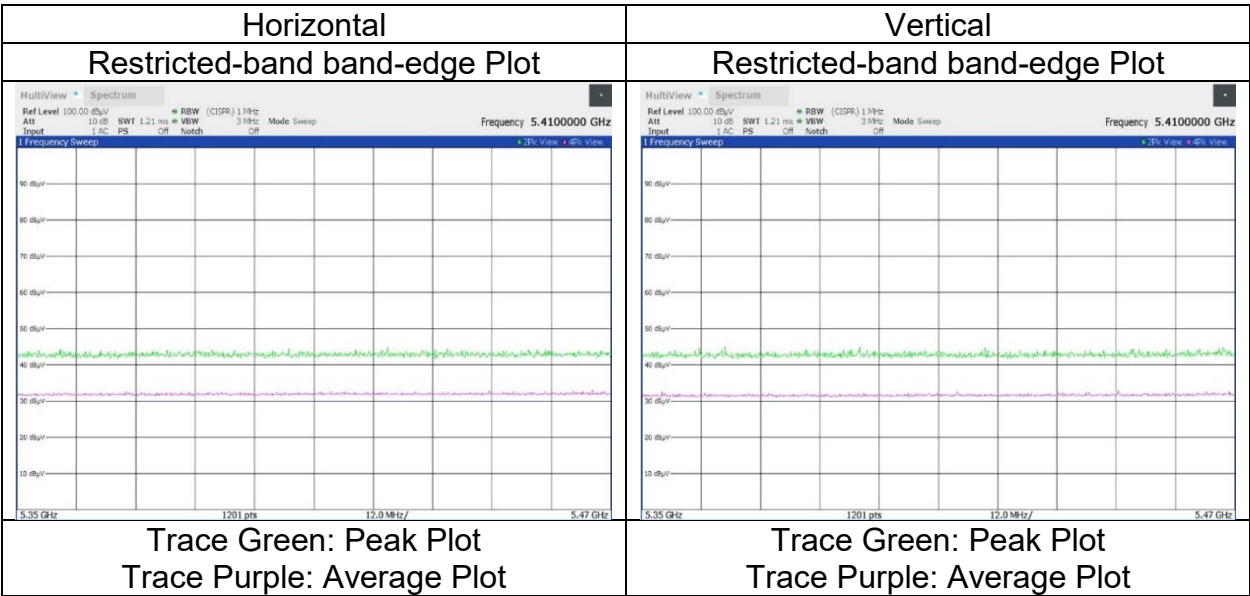
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 30, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 37 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
Mode	(1 GHz -6.4 GHz) Tx 11ac-20 (SDM) 5580 MHz, Ant 0 + Ant 2	(6.4 GHz -10 GHz)	(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.	11160.000	PK	46.83	37.51	11.99	35.55	-9.54	51.24	73.9	22.6	144	140	-
Hori.	11160.000	AV	34.24	37.51	11.99	35.55	-9.54	38.65	53.9	15.2	144	140	VBW:5 kHz
Vert.	11160.000	PK	47.85	37.51	11.99	35.55	-9.54	52.26	73.9	21.6	117	231	-
Vert.	11160.000	AV	35.22	37.51	11.99	35.55	-9.54	39.63	53.9	14.2	117	231	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	45.16	39.42	15.29	34.51	-9.54	55.82	-39.41	-27.0	12.4	150	0	Floor noise
Vert.	16740.000	PK	46.27	39.42	15.29	34.51	-9.54	56.93	-38.30	-27.0	11.3	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 30, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 37 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-20 (SDM) 5700 MHz, Ant 0 + Ant 2				

(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.	11400.000	PK	48.16	37.90	12.15	35.53	-9.54	53.14	73.9	20.7	134	131	-
Hori.	11400.000	AV	35.98	37.90	12.15	35.53	-9.54	40.96	53.9	12.9	134	131	VBW:5 kHz
Vert.	11400.000	PK	47.20	37.90	12.15	35.53	-9.54	52.18	73.9	21.7	142	188	-
Vert.	11400.000	AV	35.68	37.90	12.15	35.53	-9.54	40.66	53.9	13.2	142	188	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	44.31	33.03	14.14	36.13	2.37	57.72	-37.51	-27.0	10.5	234	124	-
Hori.	17100.000	PK	45.22	39.90	15.44	34.13	-9.54	56.89	-38.34	-27.0	11.3	150	0	Floor noise
Vert.	5725.000	PK	45.66	33.03	14.14	36.13	2.37	59.07	-36.16	-27.0	9.1	212	120	-
Vert.	17100.000	PK	44.93	39.90	15.44	34.13	-9.54	56.60	-38.63	-27.0	11.6	150	0	Floor noise

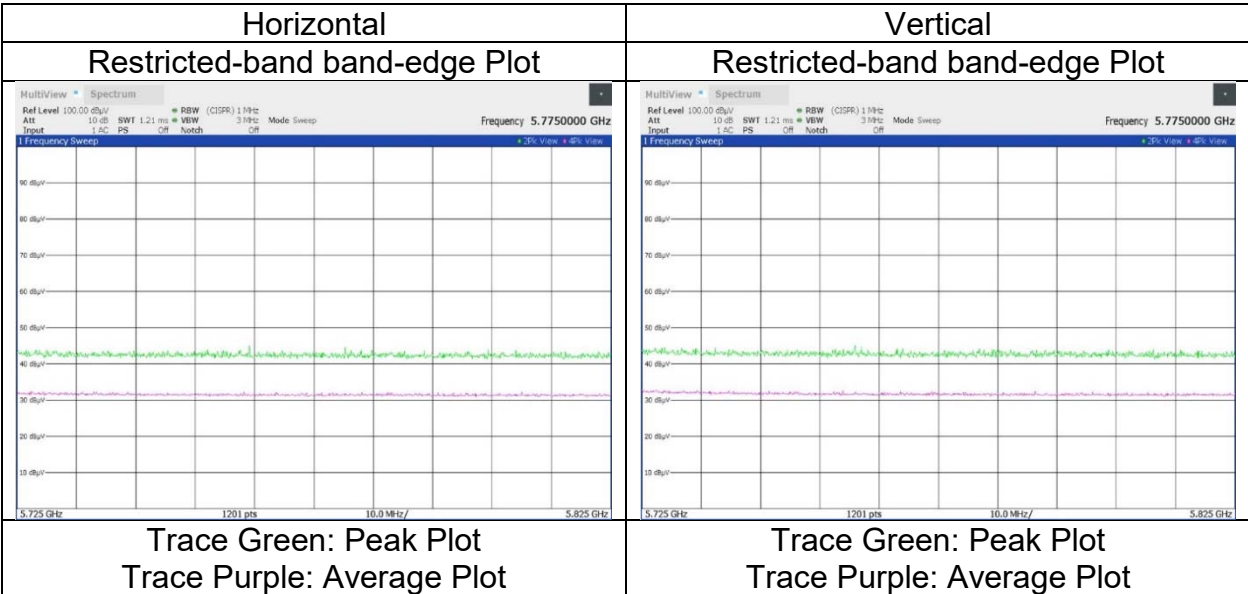
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 30, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 37 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
Mode	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11ac-20 (SDM) 5745 MHz, Ant 0 + Ant 2				

(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.	11490.000	PK	48.39	37.94	12.22	35.52	-9.54	53.49	73.9	20.4	152	88	-
Hori.	11490.000	AV	36.28	37.94	12.22	35.52	-9.54	41.38	53.9	12.5	152	88	VBW:5 kHz
Vert.	11490.000	PK	48.08	37.94	12.22	35.52	-9.54	53.18	73.9	20.7	145	188	-
Vert.	11490.000	AV	36.86	37.94	12.22	35.52	-9.54	41.96	53.9	11.9	145	188	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.04	32.96	14.10	36.14	2.37	57.33	-37.90	-27.0	10.9	235	119	-
Hori.	5700.000	PK	44.68	33.00	14.12	36.13	2.37	58.04	-37.19	10.0	47.1	235	119	-
Hori.	5720.000	PK	44.74	33.02	14.14	36.13	2.37	58.14	-37.09	15.6	52.6	235	119	-
Hori.	5725.000	PK	52.08	33.03	14.14	36.13	2.37	65.49	-29.74	27.0	56.7	235	119	-
Hori.	17235.000	PK	45.27	40.17	15.49	34.15	-9.54	57.24	-37.99	-27.0	10.9	150	0	Floor noise
Vert.	5650.000	PK	44.15	32.96	14.10	36.14	2.37	57.44	-37.79	-27.0	10.7	232	122	-
Vert.	5700.000	PK	44.76	33.00	14.12	36.13	2.37	58.12	-37.11	10.0	47.1	232	122	-
Vert.	5720.000	PK	44.82	33.02	14.14	36.13	2.37	58.22	-37.01	15.6	52.6	232	122	-
Vert.	5725.000	PK	54.62	33.03	14.14	36.13	2.37	68.03	-27.20	27.0	54.2	232	122	-
Vert.	17235.000	PK	45.01	40.17	15.49	34.15	-9.54	56.98	-38.25	-27.0	11.2	150	0	Floor noise

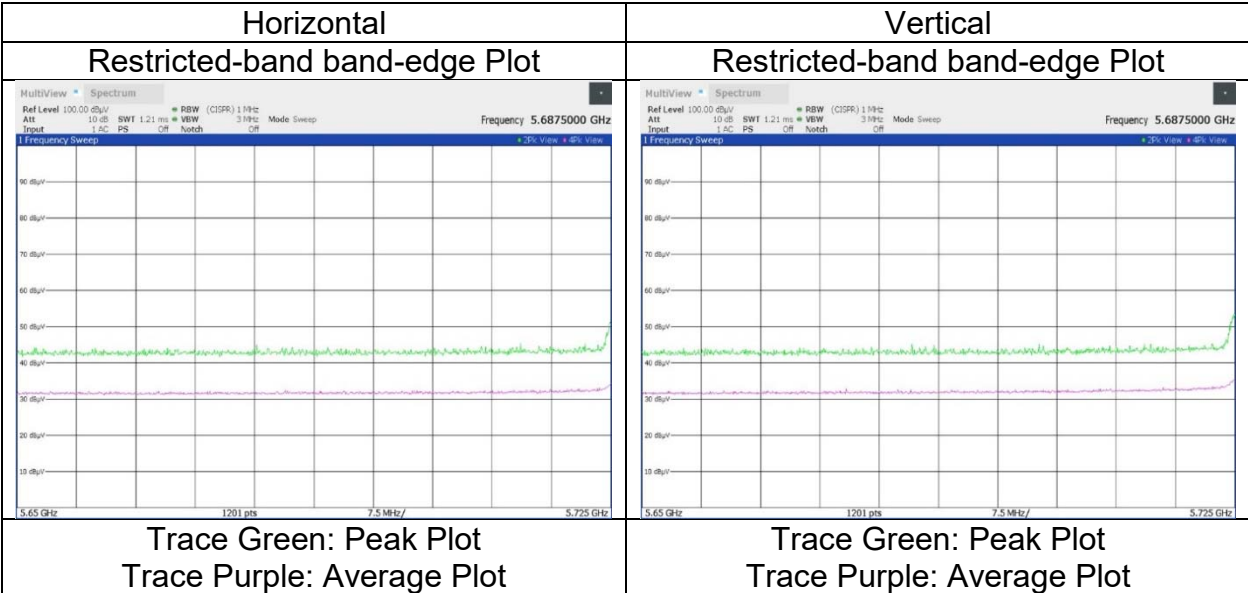
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 30, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 37 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-20 (SDM) 5785 MHz, Ant 0 + Ant 2				

(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.	11570.000	PK	48.15	37.95	12.25	35.51	-9.54	53.30	73.9	20.6	148	86	-
Hori.	11570.000	AV	36.45	37.95	12.25	35.51	-9.54	41.60	53.9	12.3	148	86	VBW:5 kHz
Vert.	11570.000	PK	48.38	37.95	12.25	35.51	-9.54	53.53	73.9	20.3	154	189	-
Vert.	11570.000	AV	36.42	37.95	12.25	35.51	-9.54	41.57	53.9	12.3	154	189	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	44.50	40.28	15.53	34.17	-9.54	56.60	-38.63	-27.0	11.6	150	0	Floor noise
Vert.	17355.000	PK	44.93	40.28	15.53	34.17	-9.54	57.03	-38.20	-27.0	11.2	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 30, 2023	November 2, 2023	November 9, 2023	November 28, 2023	November 30, 2023
Temperature / Humidity	22 deg.C, 51 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 51 %RH	21 deg.C, 37 %RH
Engineer	Kenichi Adachi	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi
Mode	(1 GHz -6.4 GHz) (6.4 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)				
	Tx 11ac-20 (SDM) 5825 MHz, Ant 0 + Ant 2				

(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.	11650.000	PK	48.31	37.96	12.31	35.51	-9.54	53.53	73.9	20.3	147	85	-
Hori.	11650.000	AV	36.77	37.96	12.31	35.51	-9.54	41.99	53.9	11.9	147	85	VBW:5 kHz
Vert.	11650.000	PK	48.30	37.96	12.31	35.51	-9.54	53.52	73.9	20.3	153	189	-
Vert.	11650.000	AV	36.75	37.96	12.31	35.51	-9.54	41.97	53.9	11.9	153	189	VBW:5 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.02	33.13	14.20	36.12	2.37	58.60	-36.63	27.0	63.6	240	126	-
Hori.	5855.000	PK	44.58	33.14	14.20	36.12	2.37	58.17	-37.06	15.6	52.6	240	126	-
Hori.	5875.000	PK	44.46	33.17	14.21	36.12	2.37	58.09	-37.14	10.0	47.1	240	126	-
Hori.	5925.000	PK	44.40	33.27	14.22	36.12	2.37	58.14	-37.09	-27.0	10.0	240	126	-
Hori.	17475.000	PK	45.14	40.35	15.58	34.19	-9.54	57.34	-37.89	-27.0	10.8	150	0	Floor noise
Vert.	5850.000	PK	45.39	33.13	14.20	36.12	2.37	58.97	-36.26	27.0	63.2	227	121	-
Vert.	5855.000	PK	45.30	33.14	14.20	36.12	2.37	58.89	-36.34	15.6	51.9	227	121	-
Vert.	5875.000	PK	44.92	33.17	14.21	36.12	2.37	58.55	-36.68	10.0	46.6	227	121	-
Vert.	5925.000	PK	44.54	33.27	14.22	36.12	2.37	58.28	-36.95	-27.0	9.9	227	121	-
Vert.	17475.000	PK	45.28	40.35	15.58	34.19	-9.54	57.48	-37.75	-27.0	10.7	150	0	Floor noise

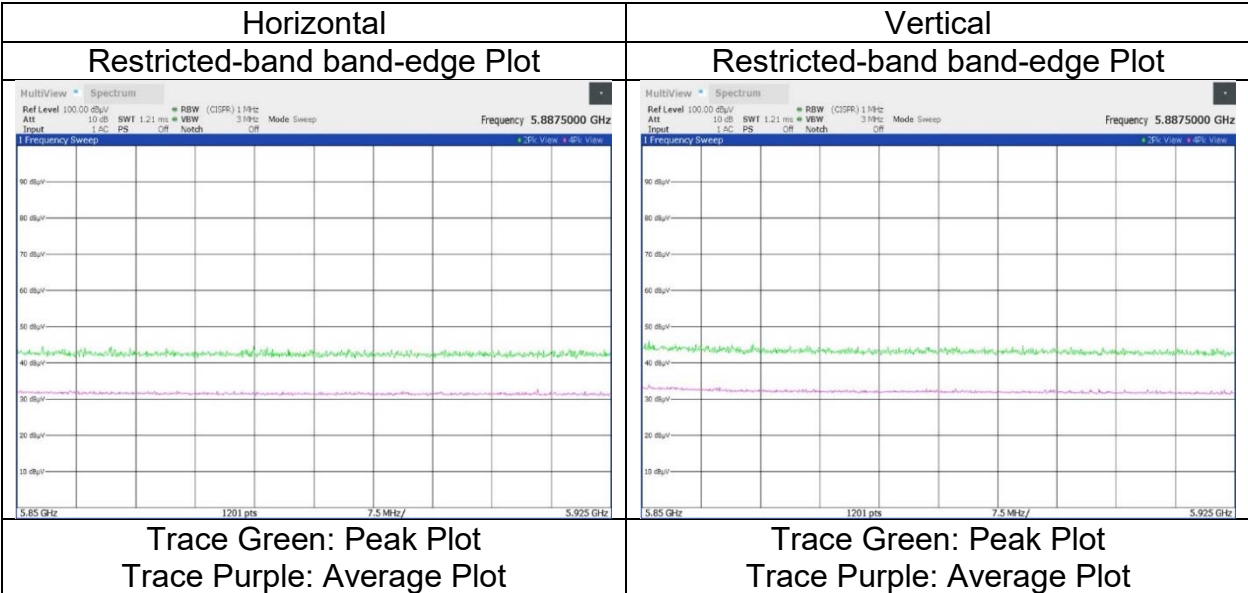
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place Shonan EMC Lab.
Semi Anechoic Chamber WAC2 WAC2 WAC2 WAC2
Date April 22, 2024 December 15, 2023 December 25, 2023 December 26, 2023
Temperature / Humidity 22 deg. C / 55 % RH 21 deg. C / 41 % RH 21 deg. C / 31 % RH 22 deg. C / 30 % RH
Engineer Kouki Yamada Kenichi Adachi Kouki Yamada Kouki Yamada
(Below 1 GHz) (1 GHz to 10 GHz) (10 GHz to 18 GHz) (Above 18 GHz)
Mode Tx 11ax-20 (OFDM)(SDM) 5180 MHz, Ant 0 + Ant 2

(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.	191.020	QP	40.60	13.97	7.15	32.97	0.00	28.75	43.5	14.7	178	70	-
Hori.	363.243	QP	43.70	15.08	7.63	32.59	0.00	33.82	46.0	12.1	100	67	-
Hori.	5150.000	PK	49.72	32.17	-26.97	-	2.37	57.29	73.9	16.6	183	76	-
Hori.	15540.000	PK	46.47	39.47	-31.23	-	-9.54	45.17	73.9	28.7	150	0	Floor noise
Hori.	5150.000	AV	40.71	32.17	-26.97	-	2.37	48.28	53.9	5.6	183	76	VBW:20 kHz
Hori.	15540.000	AV	36.57	39.47	-31.23	-	-9.54	35.27	53.9	18.6	150	0	VBW:20 kHz, Floor noise
Vert.	35.263	QP	44.70	12.44	6.26	32.68	0.00	30.72	40.0	9.2	100	339	-
Vert.	59.866	QP	45.30	9.54	6.36	33.00	0.00	28.20	40.0	11.8	100	257	-
Vert.	67.677	QP	43.20	9.34	6.41	33.04	0.00	25.91	40.0	14.0	100	119	-
Vert.	71.523	QP	44.80	9.22	6.48	33.05	0.00	27.45	40.0	12.5	100	122	-
Vert.	80.198	QP	46.90	9.01	6.73	33.07	0.00	29.57	40.0	10.4	100	84	-
Vert.	102.111	QP	47.80	9.58	6.90	33.08	0.00	31.20	43.5	12.3	100	249	-
Vert.	124.999	QP	46.20	10.93	6.74	33.06	0.00	30.81	43.5	12.6	100	267	-
Vert.	362.983	QP	41.40	15.08	7.63	32.59	0.00	31.52	46.0	14.4	100	183	-
Vert.	5150.000	PK	49.88	32.17	-26.97	-	2.37	57.45	73.9	16.4	256	118	-
Vert.	15540.000	PK	46.60	39.47	-31.23	-	-9.54	45.30	73.9	28.6	150	0	Floor noise
Vert.	5150.000	AV	40.99	32.17	-26.97	-	2.37	48.56	53.9	5.3	256	118	VBW:20 kHz
Vert.	15540.000	AV	36.49	39.47	-31.23	-	-9.54	35.19	53.9	18.7	150	0	VBW:20 kHz, Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (ERP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	47.14	36.23	-33.09	-	-9.54	40.74	-54.49	-27.0	27.4	144	234	-
Vert.	10360.000	PK	48.67	36.23	-33.09	-	-9.54	42.27	-52.96	-27.0	25.9	152	165	-

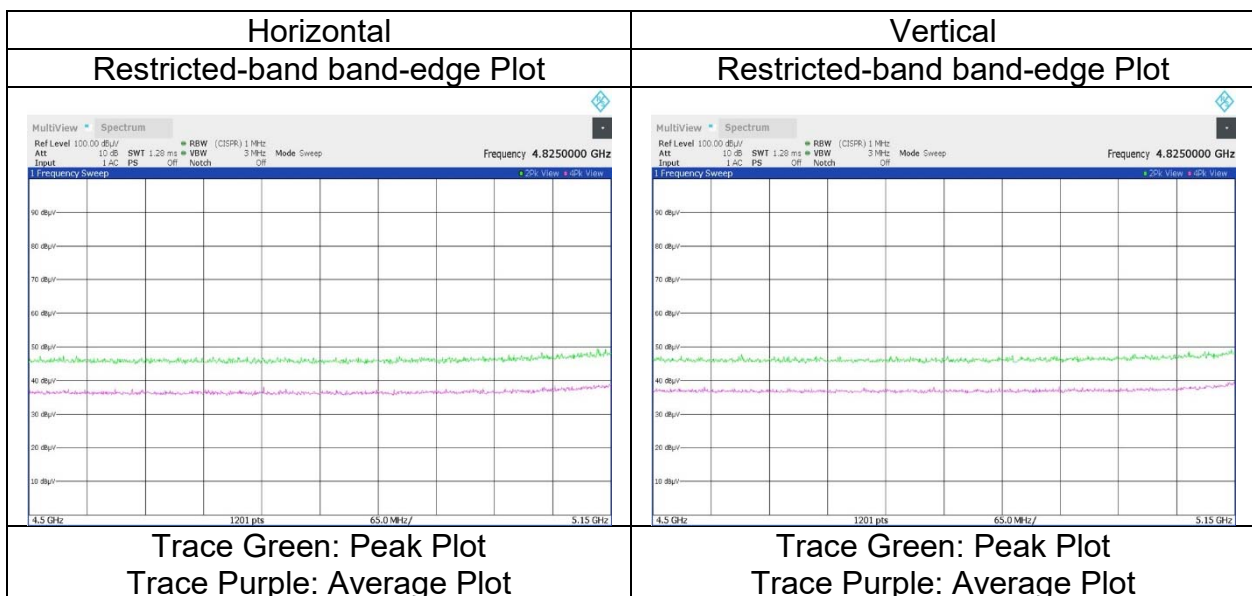
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Result (ERP [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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5240 MHz, Ant 0 + Ant 2		

(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.	15720.000	PK	46.29	39.70	-31.29	-	-9.54	45.16	73.9	28.7	150	0	Floor noise
Hori.	15720.000	AV	36.72	39.70	-31.29	-	-9.54	35.59	53.9	18.3	150	0	VBW:20 kHz, Floor noise
Vert.	15720.000	PK	46.01	39.70	-31.29	-	-9.54	44.88	73.9	29.0	150	0	Floor noise
Vert.	15720.000	AV	36.88	39.70	-31.29	-	-9.54	35.75	53.9	18.1	150	0	VBW:20 kHz, 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 : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	47.95	36.41	-32.86	-	-9.54	41.96	-53.27	-27.0	26.2	142	236	-
Vert.	10480.000	PK	48.68	36.41	-32.86	-	-9.54	42.69	-52.54	-27.0	25.5	140	157	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5320 MHz, Ant 0 + Ant 2		

(above 1 GHz Inside of the restricted band)

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

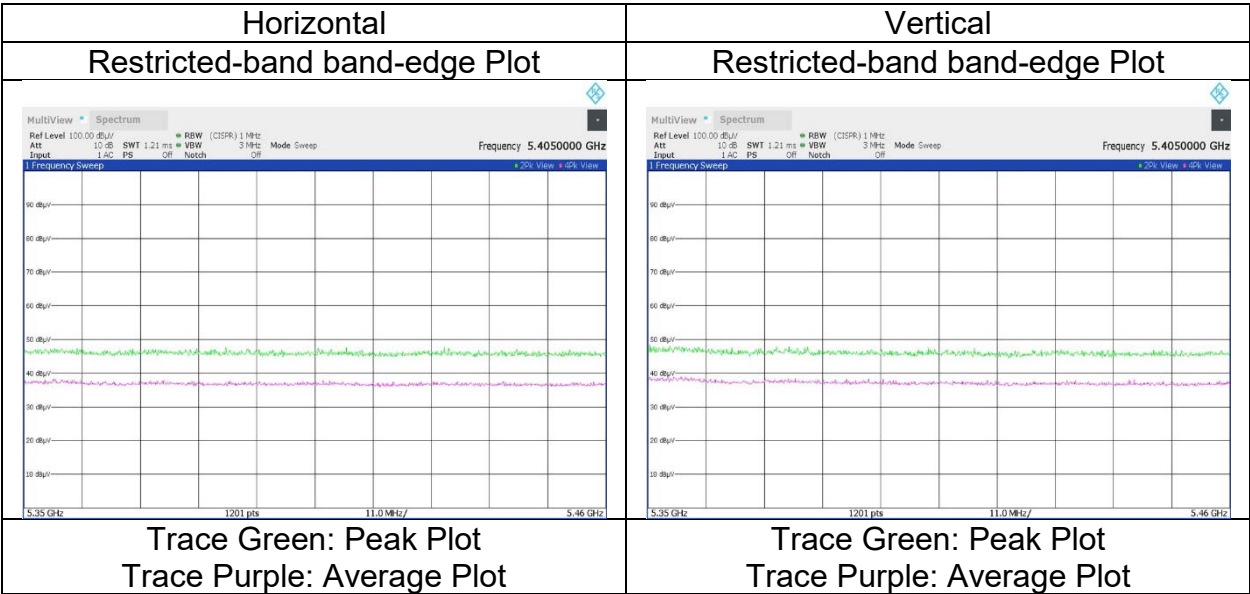
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.18	32.16	-26.77	-	2.37	55.94	73.9	17.9	184	79	-
Hori.	10640.000	PK	48.62	37.02	-32.79	-	-9.54	43.31	73.9	30.5	225	245	-
Hori.	15960.000	PK	47.14	39.96	-31.39	-	-9.54	46.17	73.9	27.7	150	0	Floor noise
Hori.	5350.000	AV	38.96	32.16	-26.77	-	2.37	46.72	53.9	7.1	184	79	VBW:20 kHz
Hori.	10640.000	AV	40.51	37.02	-32.79	-	-9.54	35.20	53.9	18.7	225	245	VBW:20 kHz
Hori.	15960.000	AV	36.45	39.96	-31.39	-	-9.54	35.48	53.9	18.4	150	0	VBW:20 kHz, Floor noise
Vert.	5350.000	PK	49.28	32.16	-26.77	-	2.37	57.04	73.9	16.8	148	113	-
Vert.	10640.000	PK	47.53	37.02	-32.79	-	-9.54	42.22	73.9	31.6	142	158	-
Vert.	15960.000	PK	46.93	39.96	-31.39	-	-9.54	45.96	73.9	27.9	150	0	Floor noise
Vert.	5350.000	AV	39.78	32.16	-26.77	-	2.37	47.54	53.9	6.3	148	113	VBW:20 kHz
Vert.	10640.000	AV	38.50	37.02	-32.79	-	-9.54	33.19	53.9	20.7	142	158	VBW:20 kHz
Vert.	15960.000	AV	36.53	39.96	-31.39	-	-9.54	35.56	53.9	18.3	150	0	VBW:20 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5500 MHz, Ant 0 + Ant 2		

(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.	11000.000	PK	49.88	37.42	-32.66	-	-9.54	45.10	73.9	28.8	149	211	-
Hori.	5460.000	AV	38.87	32.46	-26.65	-	2.37	47.05	53.9	6.8	151	107	VBW:20 kHz
Hori.	11000.000	PK	40.88	37.42	-32.66	-	-9.54	36.10	53.9	17.8	149	211	VBW:20 kHz
Vert.	11000.000	PK	48.64	37.42	-32.66	-	-9.54	43.86	73.9	30.0	150	188	-
Vert.	5460.000	AV	38.67	32.46	-26.65	-	2.37	46.85	53.9	7.0	149	116	VBW:20 kHz
Vert.	11000.000	AV	39.41	37.42	-32.66	-	-9.54	34.63	53.9	19.2	150	188	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	49.32	32.46	-26.65	-	2.37	57.50	-37.73	-27.0	10.7	151	107	-
Hori.	5470.000	PK	49.52	32.49	-26.64	-	2.37	57.74	-37.49	-27.0	10.4	151	107	-
Hori.	16500.000	PK	46.03	39.81	-30.59	-	-9.54	45.71	-49.52	-27.0	22.5	150	0	Floor noise
Vert.	5460.000	PK	49.18	32.46	-26.65	-	2.37	57.36	-37.87	-27.0	10.8	149	116	-
Vert.	5470.000	PK	49.23	32.49	-26.64	-	2.37	57.45	-37.78	-27.0	10.7	149	116	-
Vert.	16500.000	PK	46.20	39.81	-30.59	-	-9.54	45.88	-49.35	-27.0	22.3	150	0	Floor noise

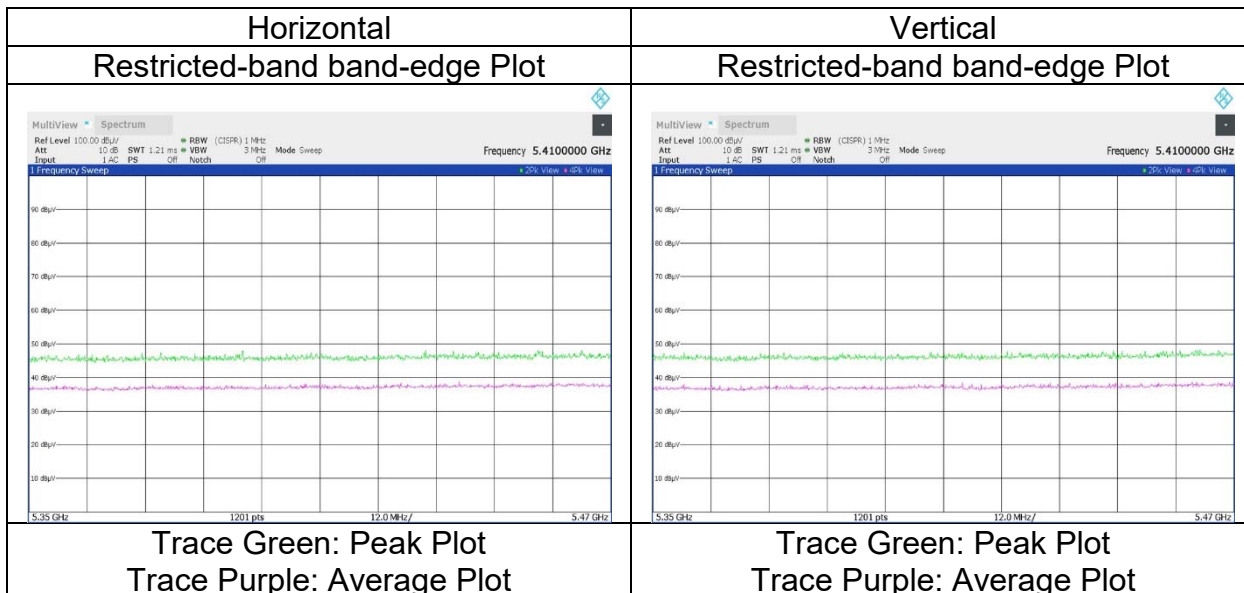
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94 \text{ m} / 3.0 \text{ m}) = 2.37 \text{ dB}$

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5580 MHz, Ant 0 + Ant 2		

(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.	11160.000	PK	49.95	37.51	-32.55	-	-9.54	45.37	73.9	28.5	163	273	-
Hori.	11160.000	AV	41.88	37.51	-32.55	-	-9.54	37.30	53.9	16.6	163	273	VBW:20 kHz
Vert.	11160.000	PK	53.46	37.51	-32.55	-	-9.54	48.88	73.9	25.0	127	230	-
Vert.	11160.000	AV	45.04	37.51	-32.55	-	-9.54	40.46	53.9	13.4	127	230	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16740.000	PK	46.64	39.42	-30.49	-	-9.54	46.03	-49.20	-27.0	22.2	150	0	Floor noise
Vert.	16740.000	PK	46.57	39.42	-30.49	-	-9.54	45.96	-49.27	-27.0	22.2	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5700 MHz, Ant 0 + Ant 2		

(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.	11400.000	PK	51.90	37.90	-32.37	-	-9.54	47.89	73.9	26.0	171	279	-
Hori.	11400.000	AV	44.30	37.90	-32.37	-	-9.54	40.29	53.9	13.6	171	279	VBW:20 kHz
Vert.	11400.000	PK	51.90	37.90	-32.37	-	-9.54	47.89	73.9	26.0	128	222	-
Vert.	11400.000	AV	44.95	37.90	-32.37	-	-9.54	40.94	53.9	12.9	128	222	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	48.05	33.03	-26.55	-	2.37	56.90	-38.33	-27.0	11.3	148	98	-
Hori.	17100.000	PK	46.21	39.90	-30.29	-	-9.54	46.28	-48.95	-27.0	21.9	150	0	Floor noise
Vert.	5725.000	PK	48.93	33.03	-26.55	-	2.37	57.78	-37.45	-27.0	10.4	223	121	-
Vert.	17100.000	PK	46.34	39.90	-30.29	-	-9.54	46.41	-48.82	-27.0	21.8	150	0	Floor noise

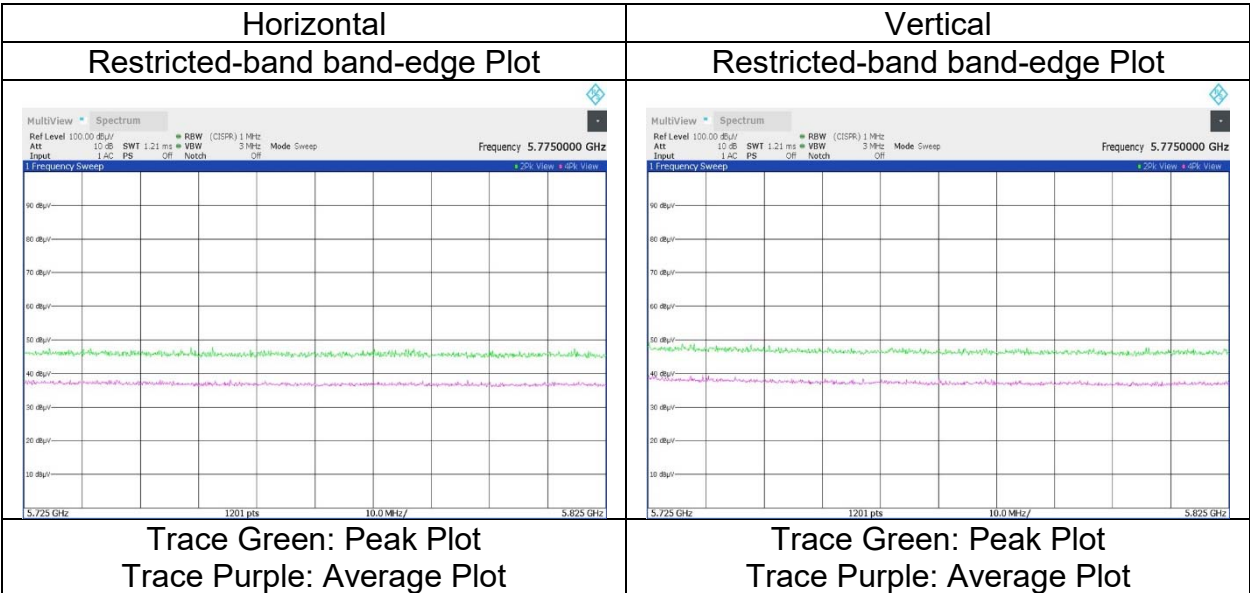
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Result (EIRP [dBm]) = 10 * 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5745 MHz, Ant 0 + Ant 2		

(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.	11490.000	PK	53.02	37.94	-32.30	-	-9.54	49.12	73.9	24.7	171	239	-
Hori.	11490.000	AV	46.40	37.94	-32.30	-	-9.54	42.50	53.9	11.4	171	239	VBW:20 kHz
Vert.	11490.000	PK	52.27	37.94	-32.30	-	-9.54	48.37	73.9	25.5	142	188	-
Vert.	11490.000	AV	45.74	37.94	-32.30	-	-9.54	41.84	53.9	12.0	142	188	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	47.48	32.96	-26.58	-	2.37	56.23	-39.00	-27.0	12.0	166	111	-
Hori.	5700.000	PK	47.65	33.00	-26.56	-	2.37	56.46	-38.77	10.0	48.7	166	111	-
Hori.	5720.000	PK	48.62	33.02	-26.55	-	2.37	57.46	-37.77	15.6	53.3	166	111	-
Hori.	5725.000	PK	59.48	33.03	-26.55	-	2.37	68.33	-26.90	27.0	53.9	166	111	-
Hori.	17235.000	PK	46.52	40.17	-30.17	-	-9.54	46.98	-48.25	-27.0	21.2	150	0	Floor noise
Vert.	5650.000	PK	48.54	32.96	-26.58	-	2.37	57.29	-37.94	-27.0	10.9	193	126	-
Vert.	5700.000	PK	48.66	33.00	-26.56	-	2.37	57.47	-37.76	10.0	47.7	193	126	-
Vert.	5720.000	PK	49.32	33.02	-26.55	-	2.37	58.16	-37.07	15.6	52.6	193	126	-
Vert.	5725.000	PK	64.08	33.03	-26.55	-	2.37	72.93	-22.30	27.0	49.3	193	126	-
Vert.	17235.000	PK	46.62	40.17	-30.17	-	-9.54	47.08	-48.15	-27.0	21.1	150	0	Floor noise

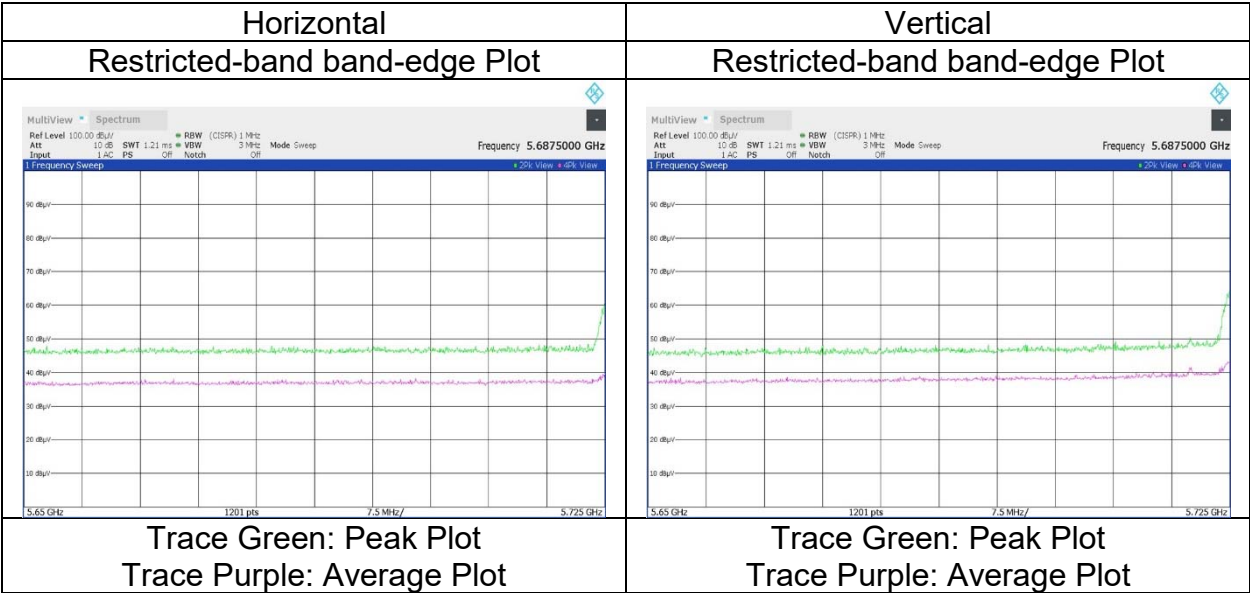
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5785 MHz, Ant 0 + Ant 2		

(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.	11570.000	PK	49.97	37.95	-32.31	-	-9.54	46.07	73.9	27.8	159	199	-
Hori.	11570.000	AV	42.69	37.95	-32.31	-	-9.54	38.79	53.9	15.1	159	199	VBW:20 kHz
Vert.	11570.000	PK	52.58	37.95	-32.31	-	-9.54	48.68	73.9	25.2	147	188	-
Vert.	11570.000	AV	45.67	37.95	-32.31	-	-9.54	41.77	53.9	12.1	147	188	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	46.01	40.28	-30.05	-	-9.54	46.70	-48.53	-27.0	21.5	150	0	Floor noise
Vert.	17355.000	PK	46.47	40.28	-30.05	-	-9.54	47.16	-48.07	-27.0	21.0	150	0	Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2
Date	December 15, 2023	December 25, 2023	December 26, 2023
Temperature / Humidity	21 deg. C / 41 % RH	21 deg. C / 31 % RH	22 deg. C / 30 % RH
Engineer	Kenichi Adachi	Kouki Yamada	Kouki Yamada
	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-20 (OFDM)(SDM) 5825 MHz, Ant 0 + Ant 2		

(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.	11650.000	PK	52.95	37.96	-32.31	-	-9.54	49.06	73.9	24.8	157	196	-
Hori.	11650.000	AV	44.91	37.96	-32.31	-	-9.54	41.02	53.9	12.8	157	196	VBW:20 kHz
Vert.	11650.000	PK	54.25	37.96	-32.31	-	-9.54	50.36	73.9	23.5	145	185	-
Vert.	11650.000	AV	46.47	37.96	-32.31	-	-9.54	42.58	53.9	11.3	145	185	VBW:20 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.77	33.13	-26.51	-	2.37	57.76	-37.47	27.0	64.4	189	117	-
Hori.	5855.000	PK	48.56	33.14	-26.51	-	2.37	57.56	-37.67	15.6	53.2	189	117	-
Hori.	5875.000	PK	47.10	33.17	-26.51	-	2.37	56.13	-39.10	10.0	49.1	189	117	-
Hori.	5925.000	PK	46.83	33.27	-26.50	-	2.37	55.97	-39.26	-27.0	12.2	189	117	-
Hori.	17475.000	PK	45.67	40.35	-29.93	-	-9.54	46.55	-48.68	-27.0	21.6	150	0	Floor noise
Vert.	5850.000	PK	50.44	33.13	-26.51	-	2.37	59.43	-35.80	27.0	62.8	149	128	-
Vert.	5855.000	PK	49.14	33.14	-26.51	-	2.37	58.14	-37.09	15.6	52.6	149	128	-
Vert.	5875.000	PK	48.56	33.17	-26.51	-	2.37	57.59	-37.64	10.0	47.6	149	128	-
Vert.	5925.000	PK	48.41	33.27	-26.50	-	2.37	57.55	-37.68	-27.0	10.6	149	128	-
Vert.	17475.000	PK	45.92	40.35	-29.93	-	-9.54	46.80	-48.43	-27.0	21.4	150	0	Floor noise

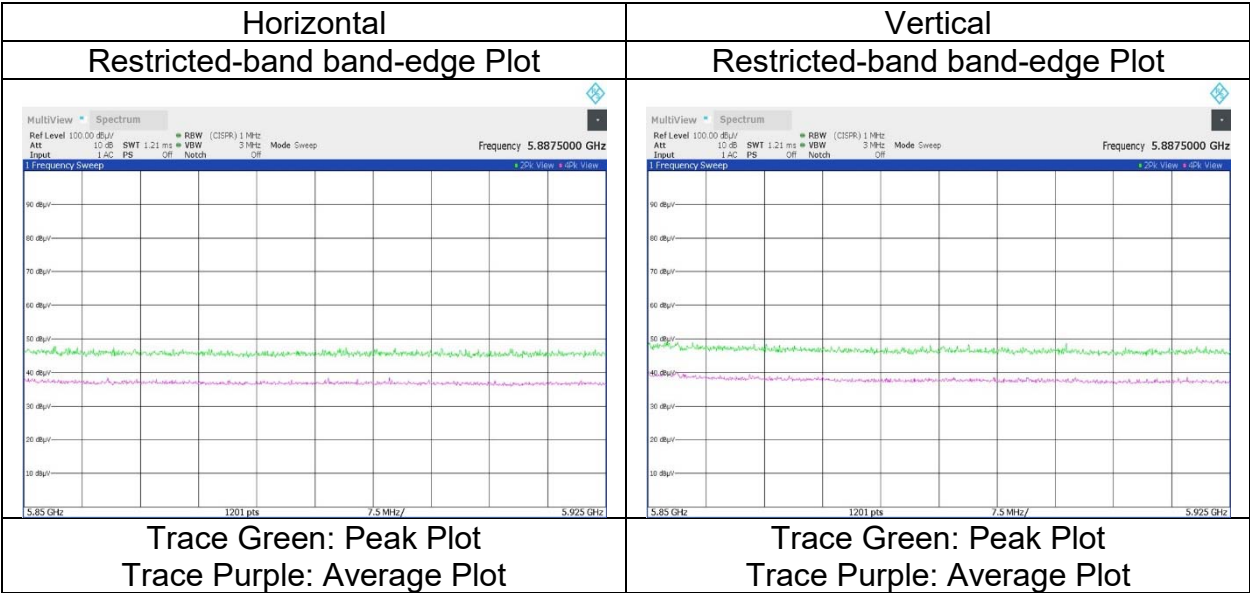
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 9, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-40 (SDM) 5190 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	46.77	32.17	13.89	36.09	2.37	59.11	73.9	14.7	175	76	-
Hori.	15570.000	PK	45.72	39.53	14.39	35.28	-9.54	54.82	73.9	19.0	150	0	Floor noise
Hori.	5150.000	AV	34.46	32.17	13.89	36.09	2.37	46.80	53.9	7.1	175	76	VBW:3 kHz, Floor noise
Hori.	15570.000	AV	32.90	39.53	14.39	35.28	-9.54	42.00	53.9	11.9	150	0	VBW:3 kHz, Floor noise
Vert.	5150.000	PK	46.86	32.17	13.89	36.09	2.37	59.20	73.9	14.7	103	120	-
Vert.	15570.000	PK	45.60	39.53	14.39	35.28	-9.54	54.70	73.9	19.2	150	0	Floor noise
Vert.	5150.000	AV	34.53	32.17	13.89	36.09	2.37	46.87	53.9	7.0	103	120	VBW:3 kHz
Vert.	15570.000	AV	32.98	39.53	14.39	35.28	-9.54	42.08	53.9	11.8	150	0	VBW:3 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10380.000	PK	46.01	36.23	11.59	35.91	-9.54	48.38	-46.85	-27.0	19.8	151	88	-
Vert.	10380.000	PK	46.78	36.23	11.59	35.91	-9.54	49.15	-46.08	-27.0	19.0	135	221	-

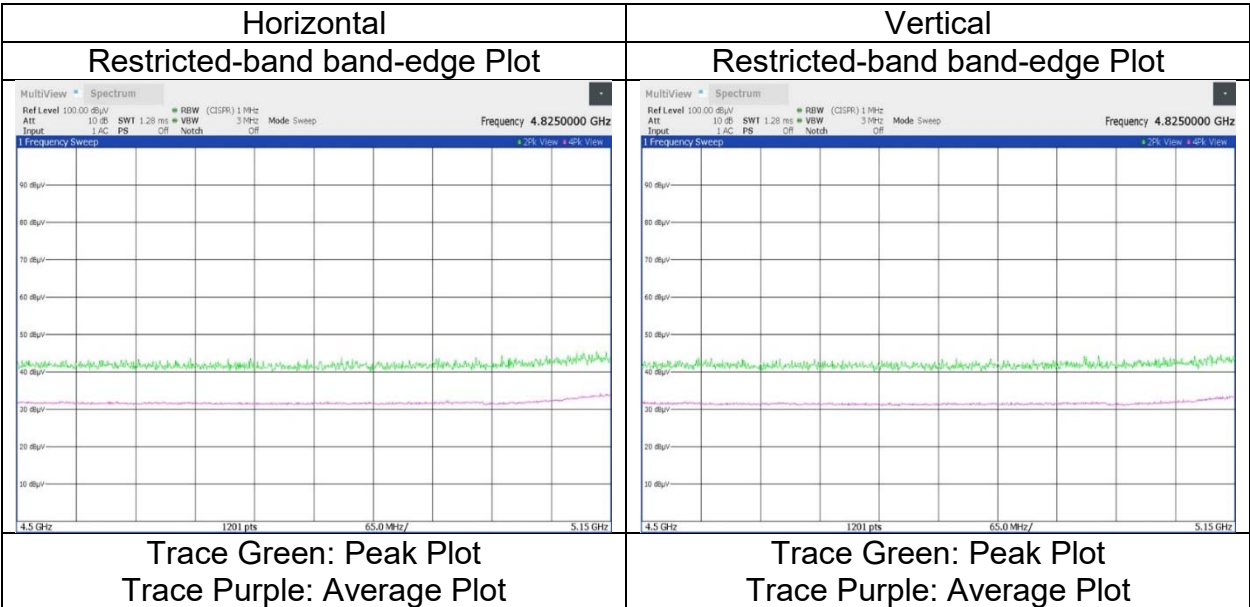
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 9, 2023	November 29, 2023	November 30, 2023	
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH	
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11n-40 (SDM) 5230 MHz, Ant 0 + Ant 2					

(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.	15690.000	PK	45.28	39.67	-20.85	-	-9.54	54.56	73.9	19.3	150	0	Floor noise
Hori.	15690.000	AV	32.67	39.67	-20.85	-	-9.54	41.95	53.9	11.9	150	0	VBW:3 kHz, Floor noise
Vert.	15690.000	PK	45.71	39.67	-20.85	-	-9.54	54.99	73.9	18.9	150	0	Floor noise
Vert.	15690.000	AV	32.65	39.67	-20.85	-	-9.54	41.93	53.9	11.9	150	0	VBW:3 kHz, Floor noise

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10460.000	PK	46.43	36.36	-24.20	-	-9.54	49.05	-46.18	-27.0	19.1	202	86	-
Vert.	10460.000	PK	45.98	36.36	-24.20	-	-9.54	48.60	-46.63	-27.0	19.6	110	208	-

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.94\text{ m} / 3.0\text{ m}) = 2.37\text{ dB}$

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	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 9, 2023	November 29, 2023	November 30, 2023	
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH	
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11n-40 (SDM) 5310 MHz, Ant 0 + Ant 2					

(above 1 GHz Inside of the restricted band)

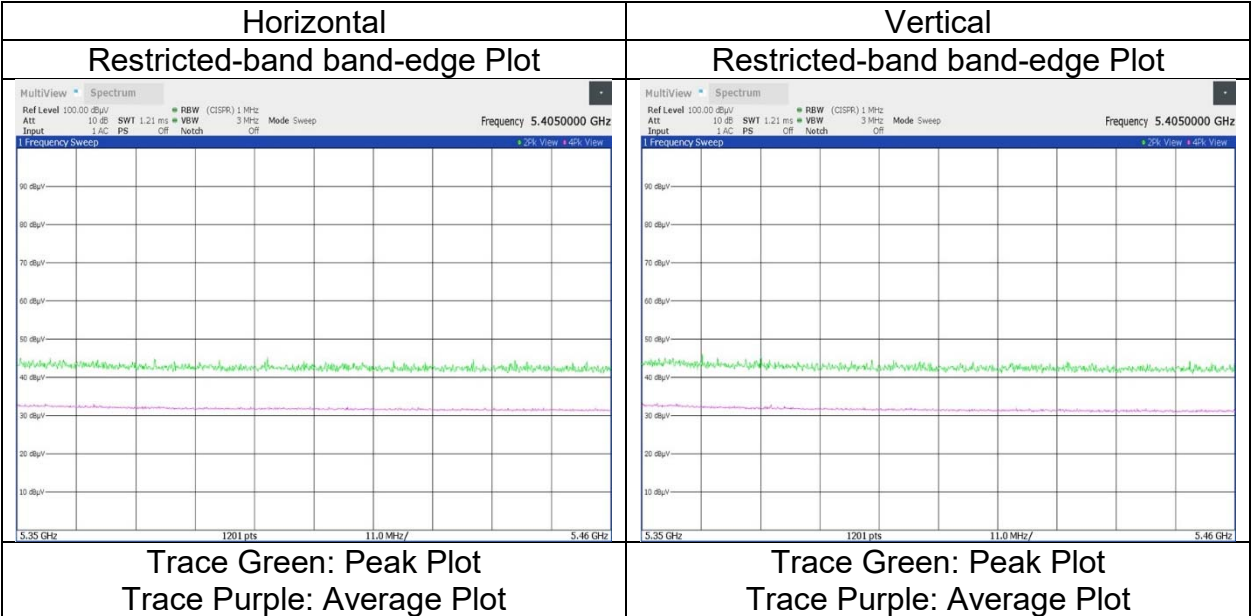
(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark	
Hori.	5350.000	PK	45.80	32.16	13.97	36.13	2.37	58.17	73.9	15.7	178	79	-	-
Hori.	10620.000	PK	45.76	36.94	11.70	35.73	-9.54	49.13	73.9	24.7	180	314	-	-
Hori.	15930.000	PK	45.22	39.94	14.54	35.31	-9.54	54.85	73.9	19.0	150	0	Floor noise	-
Hori.	5350.000	AV	32.83	32.16	13.97	36.13	2.37	45.20	53.9	8.7	178	79	VBW:3 kHz	-
Hori.	10620.000	AV	32.99	36.94	11.70	35.73	-9.54	36.36	53.9	17.5	180	314	VBW:3 kHz	-
Hori.	15930.000	AV	32.96	39.94	14.54	35.31	-9.54	42.59	53.9	11.3	150	0	VBW:3 kHz, Floor noise	-
Vert.	5350.000	PK	45.52	32.16	13.97	36.13	2.37	57.89	73.9	16.0	188	109	-	-
Vert.	10620.000	PK	45.84	36.94	11.70	35.73	-9.54	49.21	73.9	24.6	121	202	-	-
Vert.	15930.000	PK	44.93	39.94	14.54	35.31	-9.54	54.56	73.9	19.3	150	0	Floor noise	-
Vert.	5350.000	AV	33.38	32.16	13.97	36.13	2.37	45.75	53.9	8.1	188	109	VBW:3 kHz	-
Vert.	10620.000	AV	33.04	36.94	11.70	35.73	-9.54	36.41	53.9	17.4	121	202	VBW:3 kHz	-
Vert.	15930.000	AV	32.85	39.94	14.54	35.31	-9.54	42.48	53.9	11.4	150	0	VBW:3 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 9, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	21 deg.C, 53 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-40 (SDM) 5510 MHz, Ant 0 + Ant 2				

(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.	11020.000	PK	46.18	37.41	-23.66	-	-9.54	50.39	73.9	23.5	161	121	-
Hori.	5460.000	AV	32.86	32.46	-22.11	-	2.37	45.58	53.9	8.3	223	113	VBW:3 kHz
Hori.	11020.000	AV	33.14	37.41	-23.66	-	-9.54	37.35	53.9	16.5	161	121	VBW:3 kHz
Vert.	11020.000	PK	46.92	37.41	-23.66	-	-9.54	51.13	73.9	22.7	221	112	-
Vert.	5460.000	AV	32.81	32.46	-22.11	-	2.37	45.53	53.9	8.3	238	111	VBW:3 kHz
Vert.	11020.000	AV	33.32	37.41	-23.66	-	-9.54	37.53	53.9	16.3	221	112	VBW:3 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	46.06	32.46	-22.11	-	2.37	58.78	-36.45	-27.0	9.4	223	113	-
Hori.	5470.000	PK	46.61	32.49	-22.12	-	2.37	59.35	-35.88	-27.0	8.8	223	113	-
Hori.	16530.000	PK	45.52	39.74	-19.64	-	-9.54	56.08	-39.15	-27.0	12.1	150	0	Floor noise
Vert.	5460.000	PK	45.31	32.46	-22.11	-	2.37	58.03	-37.20	-27.0	10.2	238	111	-
Vert.	5470.000	PK	45.48	32.49	-22.12	-	2.37	58.22	-37.01	-27.0	10.0	238	111	-
Vert.	16530.000	PK	45.49	39.74	-19.64	-	-9.54	56.05	-39.18	-27.0	12.1	150	0	Floor noise

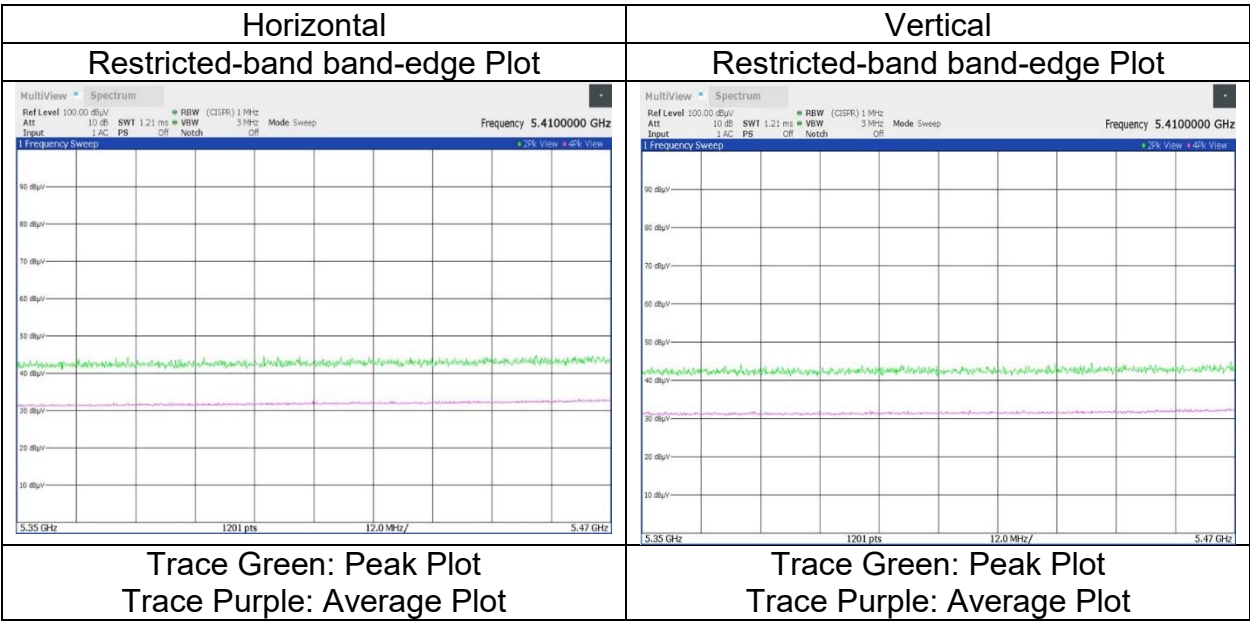
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-40 (SDM) 5550 MHz, Ant 0 + Ant 2				

(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.	11100.000	PK	46.13	37.44	11.96	35.55	-9.54	50.44	73.9	23.4	146	119	-
Hori.	11100.000	AV	32.95	37.44	11.96	35.55	-9.54	37.26	53.9	16.6	146	119	VBW:3 kHz
Vert.	11100.000	PK	45.87	37.44	11.96	35.55	-9.54	50.18	73.9	23.7	148	176	-
Vert.	11100.000	AV	33.22	37.44	11.96	35.55	-9.54	37.53	53.9	16.3	148	176	VBW:3 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16650.000	PK	45.25	39.50	15.25	34.64	-9.54	55.82	-39.41	-27.0	12.4	150	0	Floor noise
Vert.	16650.000	PK	45.07	39.50	15.25	34.64	-9.54	55.64	-39.59	-27.0	12.5	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-40 (SDM) 5670 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

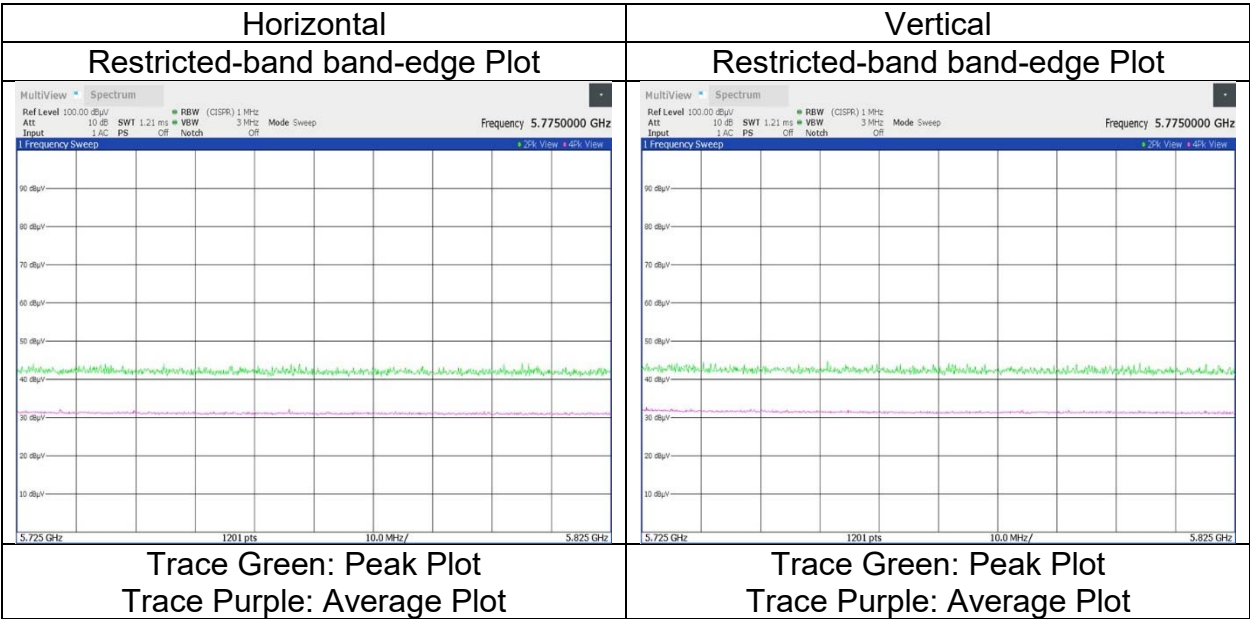
(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11340.000	PK	46.26	37.83	12.12	35.53	-9.54	51.14	73.9	22.7	148	122	-
Hori.	11340.000	AV	33.76	37.83	12.12	35.53	-9.54	38.64	53.9	15.2	148	122	VBW:3 kHz
Vert.	11340.000	PK	46.30	37.83	12.12	35.53	-9.54	51.18	73.9	22.7	153	190	-
Vert.	11340.000	AV	33.84	37.83	12.12	35.53	-9.54	38.72	53.9	15.1	153	190	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5725.000	PK	45.42	33.03	14.14	36.13	2.37	58.83	-36.40	-27.0	9.4	274	91	-
Hori.	17010.000	PK	45.02	39.70	15.41	34.11	-9.54	56.48	-38.75	-27.0	11.7	150	0	Floor noise
Vert.	5725.000	PK	46.33	33.03	14.14	36.13	2.37	59.74	-35.49	-27.0	8.4	202	119	-
Vert.	17010.000	PK	45.30	39.70	15.41	34.11	-9.54	56.76	-38.47	-27.0	11.4	150	0	Floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*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 (3.94 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11n-40 (SDM) 5755 MHz, Ant 0 + Ant 2				

(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.	11510.000	PK	46.65	37.94	12.22	35.52	-9.54	51.75	73.9	22.1	151	88	-
Hori.	11510.000	AV	34.56	37.94	12.22	35.52	-9.54	39.66	53.9	14.2	151	88	VBW:3 kHz
Vert.	11510.000	PK	46.47	37.94	12.22	35.52	-9.54	51.57	73.9	22.3	146	187	-
Vert.	11510.000	AV	34.82	37.94	12.22	35.52	-9.54	39.92	53.9	13.9	146	187	VBW:3 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.21	32.96	14.10	36.14	2.37	57.50	-37.73	-27.0	10.7	180	105	-
Hori.	5700.000	PK	44.95	33.00	14.12	36.13	2.37	58.31	-36.92	10.0	46.9	180	105	-
Hori.	5720.000	PK	45.99	33.02	14.14	36.13	2.37	59.39	-35.84	15.6	51.4	180	105	-
Hori.	5725.000	PK	46.81	33.03	14.14	36.13	2.37	60.22	-35.01	27.0	62.0	180	105	-
Hori.	17265.000	PK	45.09	40.19	15.50	34.15	-9.54	57.09	-38.14	-27.0	11.1	150	0	Floor noise
Vert.	5650.000	PK	44.29	32.96	14.10	36.14	2.37	57.58	-37.65	-27.0	10.6	154	123	-
Vert.	5700.000	PK	45.78	33.00	14.12	36.13	2.37	59.14	-36.09	10.0	46.0	154	123	-
Vert.	5720.000	PK	46.56	33.02	14.14	36.13	2.37	59.96	-35.27	15.6	50.8	154	123	-
Vert.	5725.000	PK	48.50	33.03	14.14	36.13	2.37	61.91	-33.32	27.0	60.3	154	123	-
Vert.	17265.000	PK	45.40	40.19	15.50	34.15	-9.54	57.40	-37.83	-27.0	10.8	150	0	Floor noise

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

Result (EIRP [dBm]) = 10 * 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
Mode	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
	Tx 11n-40 (SDM) 5795 MHz, Ant 0 + Ant 2				

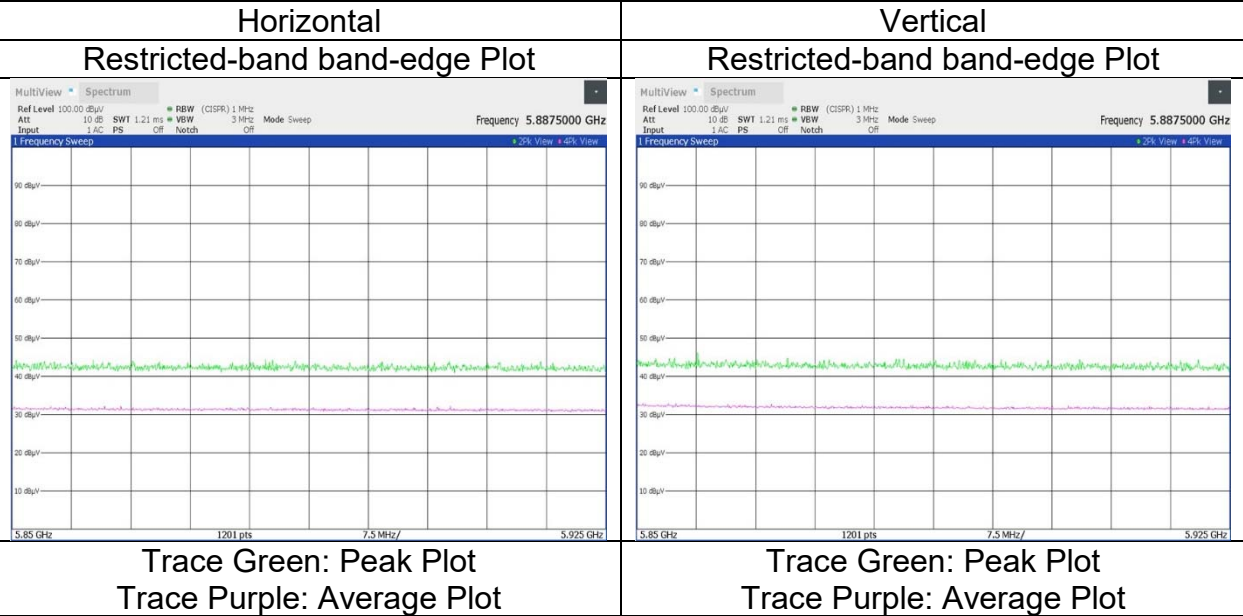
(above 1 GHz Inside of the restricted band)

(* 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.	11590.000	PK	47.33	37.95	12.28	35.51	-9.54	52.51	73.9	21.3	152	86	-
Hori.	11590.000	AV	35.22	37.95	12.28	35.51	-9.54	40.40	53.9	13.5	152	86	VBW:3 kHz
Vert.	11590.000	PK	46.95	37.95	12.28	35.51	-9.54	52.13	73.9	21.7	141	187	-
Vert.	11590.000	AV	35.25	37.95	12.28	35.51	-9.54	40.43	53.9	13.4	141	187	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.20	33.13	14.20	36.12	2.37	58.78	-36.45	27.0	63.4	181	106	-
Hori.	5855.000	PK	44.94	33.14	14.20	36.12	2.37	58.53	-36.70	15.6	52.3	181	106	-
Hori.	5875.000	PK	44.88	33.17	14.21	36.12	2.37	58.51	-36.72	10.0	46.7	181	106	-
Hori.	5925.000	PK	44.47	33.27	14.22	36.12	2.37	58.21	-37.02	-27.0	10.0	181	106	-
Hori.	17385.000	PK	45.31	40.30	15.54	34.17	-9.54	57.44	-37.79	-27.0	10.7	150	0	Floor noise
Vert.	5850.000	PK	45.59	33.13	14.20	36.12	2.37	59.17	-36.06	27.0	63.0	202	122	-
Vert.	5855.000	PK	45.40	33.14	14.20	36.12	2.37	58.99	-36.24	15.6	51.8	202	122	-
Vert.	5875.000	PK	45.29	33.17	14.21	36.12	2.37	58.92	-36.31	10.0	46.3	202	122	-
Vert.	5925.000	PK	44.91	33.27	14.22	36.12	2.37	58.65	-36.58	-27.0	9.5	202	122	-
Vert.	17385.000	PK	45.11	40.30	15.54	34.17	-9.54	57.24	-37.99	-27.0	10.9	150	0	Floor noise
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor														
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)														
*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 (3.94 m / 3.0 m) = 2.37 dB														
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB														



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 (SDM) 5190 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)													
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	47.35	32.17	13.89	36.09	2.37	59.69	73.9	14.2	152	81	-
Hori.	15570.000	PK	45.14	39.53	14.39	35.28	-9.54	54.24	73.9	19.6	150	0	Floor noise
Hori.	5150.000	AV	34.62	32.17	13.89	36.09	2.37	46.96	53.9	6.9	152	81	-
Hori.	15570.000	AV	32.54	39.53	14.39	35.28	-9.54	41.64	53.9	12.2	150	0	VBW:3 kHz, Floor noise
Vert.	5150.000	PK	46.76	32.17	13.89	36.09	2.37	59.10	73.9	14.8	169	116	-
Vert.	15570.000	PK	45.46	39.53	14.39	35.28	-9.54	54.56	73.9	19.3	150	0	Floor noise
Vert.	5150.000	AV	34.55	32.17	13.89	36.09	2.37	46.89	53.9	7.0	169	116	-
Vert.	15570.000	AV	32.52	39.53	14.39	35.28	-9.54	41.62	53.9	12.2	150	0	VBW:3 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

(* PK: Peak, AV: Average, QP: Quasi-Peak)														
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10380.000	PK	46.29	36.23	11.59	35.91	-9.54	48.66	-46.57	-27.0	19.5	162	96	-
Vert.	10380.000	PK	47.17	36.23	11.59	35.91	-9.54	49.54	-45.69	-27.0	18.6	137	205	-

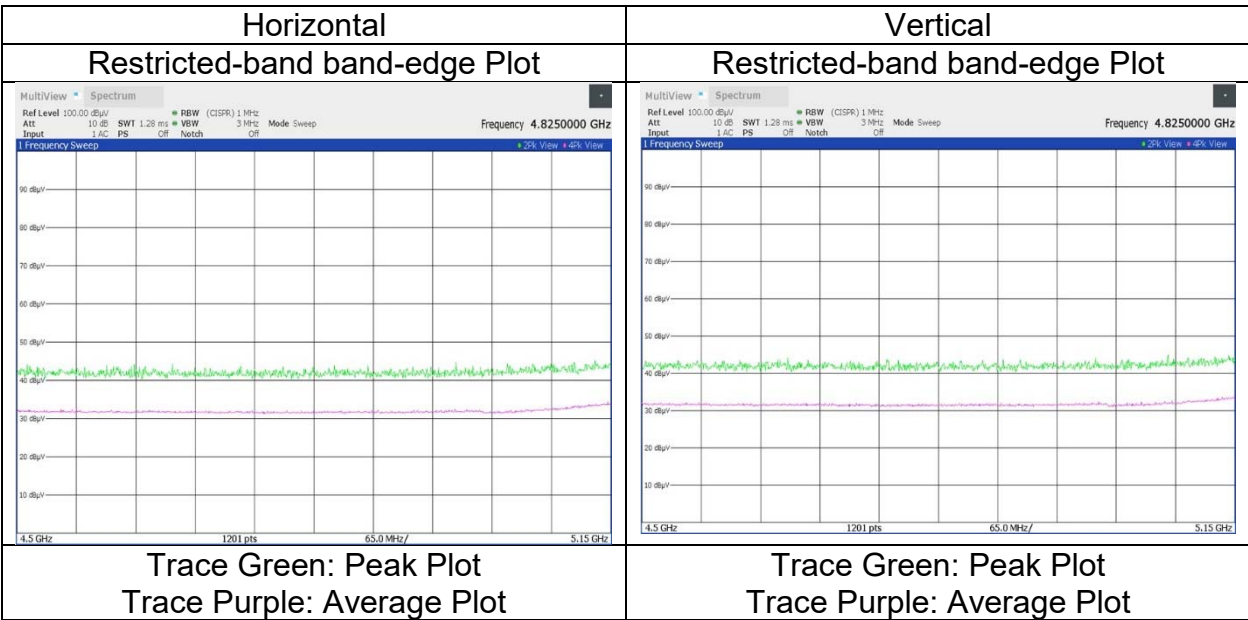
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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



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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	October 31, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023	
Temperature / Humidity	21 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH	
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11ac-40 (SDM) 5230 MHz, Ant 0 + Ant 2					

(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.	15690.000	PK	45.04	39.67	14.44	35.29	-9.54	54.32	73.9	19.5	150	0	Floor noise
Hori.	15690.000	AV	32.72	39.67	14.44	35.29	-9.54	42.00	53.9	11.9	150	0	VBW:3 kHz, Floor noise
Vert.	15690.000	PK	44.85	39.67	14.44	35.29	-9.54	54.13	73.9	19.7	150	0	Floor noise
Vert.	15690.000	AV	32.94	39.67	14.44	35.29	-9.54	42.22	53.9	11.6	150	0	VBW:3 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10460.000	PK	45.27	36.36	11.63	35.83	-9.54	47.89	-47.34	-27.0	20.3	134	63	-
Vert.	10460.000	PK	46.04	36.36	11.63	35.83	-9.54	48.66	-46.57	-27.0	19.5	132	204	-

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 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	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 (SDM) 5310 MHz, Ant 0 + Ant 2				

(above 1 GHz Inside of the restricted band)

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

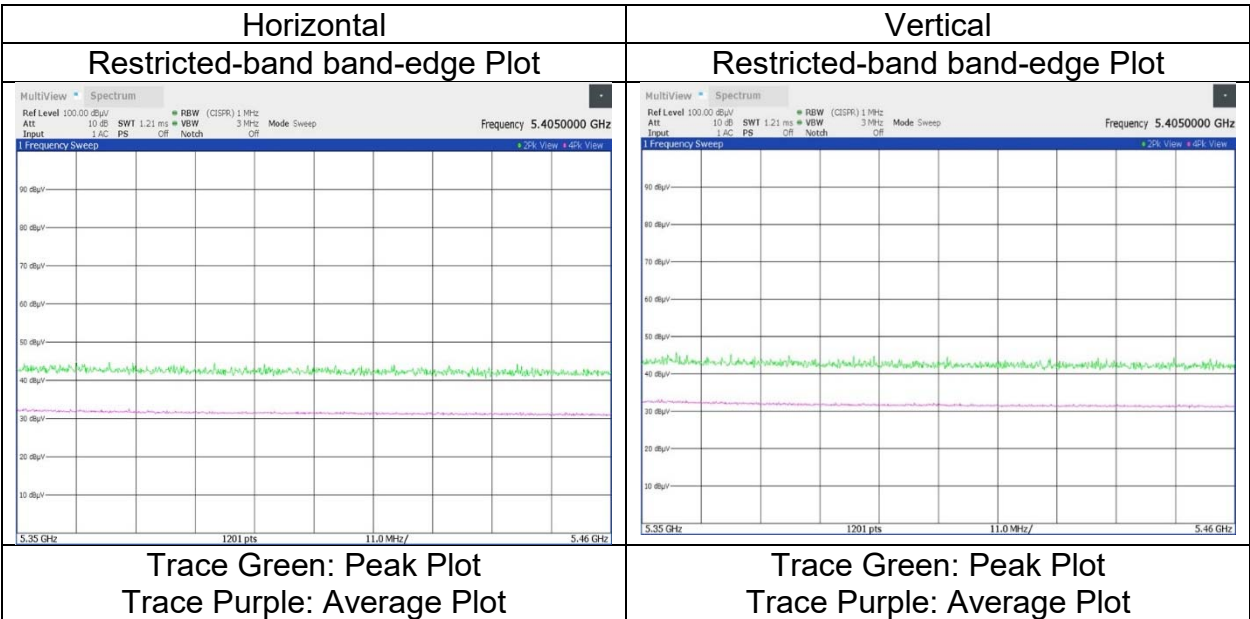
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.50	32.16	13.97	36.13	2.37	57.87	73.9	16.0	259	121	-
Hori.	10620.000	PK	45.74	36.94	11.70	35.73	-9.54	49.11	73.9	24.7	173	98	-
Hori.	15930.000	PK	44.93	39.94	14.54	35.31	-9.54	54.56	73.9	19.3	150	0	Floor noise
Hori.	5350.000	AV	32.85	32.16	13.97	36.13	2.37	45.22	53.9	8.6	259	121	VBW:3 kHz
Hori.	10620.000	AV	32.93	36.94	11.70	35.73	-9.54	36.30	53.9	17.6	173	98	VBW:3 kHz
Hori.	15930.000	AV	32.78	39.94	14.54	35.31	-9.54	42.41	53.9	11.4	150	0	VBW:3 kHz, Floor noise
Vert.	5350.000	PK	45.68	32.16	13.97	36.13	2.37	58.05	73.9	15.8	159	118	-
Vert.	10620.000	PK	45.62	36.94	11.70	35.73	-9.54	48.99	73.9	24.9	135	208	-
Vert.	15930.000	PK	45.22	39.94	14.54	35.31	-9.54	54.85	73.9	19.0	150	0	Floor noise
Vert.	5350.000	AV	33.37	32.16	13.97	36.13	2.37	45.74	53.9	8.1	159	118	VBW:3 kHz
Vert.	10620.000	AV	32.94	36.94	11.70	35.73	-9.54	36.31	53.9	17.5	135	208	VBW:3 kHz
Vert.	15930.000	AV	32.83	39.94	14.54	35.31	-9.54	42.46	53.9	11.4	150	0	VBW:3 kHz, 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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.				
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023
Temperature / Humidity	20 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)
Mode	Tx 11ac-40 (SDM) 5510 MHz, Ant 0 + Ant 2				

(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.	11020.000	PK	45.72	37.41	-23.66	-	-9.54	49.93	73.9	23.9	167	130	-
Hori.	5460.000	AV	32.41	32.46	-22.11	-	2.37	45.13	53.9	8.7	160	106	VBW:3 kHz
Hori.	11020.000	AV	32.64	37.41	-23.66	-	-9.54	36.85	53.9	17.0	167	130	VBW:3 kHz
Vert.	11020.000	PK	45.13	37.41	-23.66	-	-9.54	49.34	73.9	24.5	138	203	-
Vert.	5460.000	AV	32.28	32.46	-22.11	-	2.37	45.00	53.9	8.9	124	193	VBW:3 kHz
Vert.	11020.000	AV	32.55	37.41	-23.66	-	-9.54	36.76	53.9	17.1	138	203	VBW:3 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5460.000	PK	45.11	32.46	-22.11	-	2.37	57.83	-37.40	-27.0	10.4	160	106	-
Hori.	5470.000	PK	45.36	32.49	-22.12	-	2.37	58.10	-37.13	-27.0	10.1	160	106	-
Hori.	16530.000	PK	45.00	39.74	-19.64	-	-9.54	55.56	-39.67	-27.0	12.6	150	0	Floor noise
Vert.	5460.000	PK	45.14	32.46	-22.11	-	2.37	57.86	-37.37	-27.0	10.3	124	193	-
Vert.	5470.000	PK	45.71	32.49	-22.12	-	2.37	58.45	-36.78	-27.0	9.7	124	193	-
Vert.	16530.000	PK	44.99	39.74	-19.64	-	-9.54	55.55	-39.68	-27.0	12.6	150	0	Floor noise

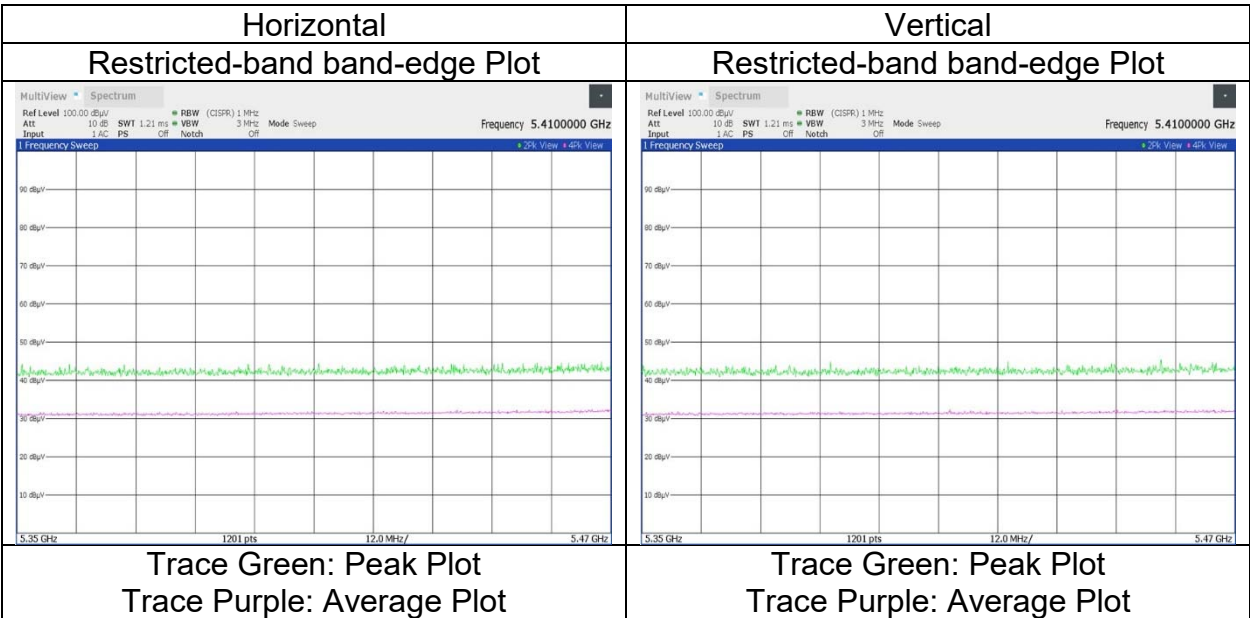
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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



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

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

Radiated Spurious Emission

Test place	Shonan EMC Lab.					
Semi Anechoic Chamber	WAC2	WAC2	WAC2	WAC2	WAC2	WAC2
Date	November 1, 2023	November 2, 2023	November 10, 2023	November 29, 2023	November 30, 2023	
Temperature / Humidity	20 deg.C, 50 %RH	21 deg.C, 51 %RH	22 deg.C, 54 %RH	21 deg.C, 38 %RH	21 deg.C, 37 %RH	
Engineer	Miku Ikudome	Miku Ikudome	Miku Ikudome	Kenichi Adachi	Kenichi Adachi	
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -26.5 GHz)	(26.5 GHz -40 GHz)	
Mode	Tx 11ac-40 (SDM) 5550 MHz, Ant 0 + Ant 2					

(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.	11100.000	PK	45.57	37.44	11.96	35.55	-9.54	49.88	73.9	24.0	141	146	-
Hori.	11100.000	AV	32.93	37.44	11.96	35.55	-9.54	37.24	53.9	16.6	141	146	VBW:3 kHz
Vert.	11100.000	PK	46.58	37.44	11.96	35.55	-9.54	50.89	73.9	23.0	148	240	-
Vert.	11100.000	AV	33.36	37.44	11.96	35.55	-9.54	37.67	53.9	16.2	148	240	VBW:3 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.94 m / 3.0 m) = 2.37 dB

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

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	16650.000	PK	45.64	39.50	15.25	34.64	-9.54	56.21	-39.02	-27.0	12.0	150	0	Floor noise
Vert.	16650.000	PK	45.59	39.50	15.25	34.64	-9.54	56.16	-39.07	-27.0	12.0	150	0	Floor noise

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

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

*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 (3.94 m / 3.0 m) = 2.37 dB

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