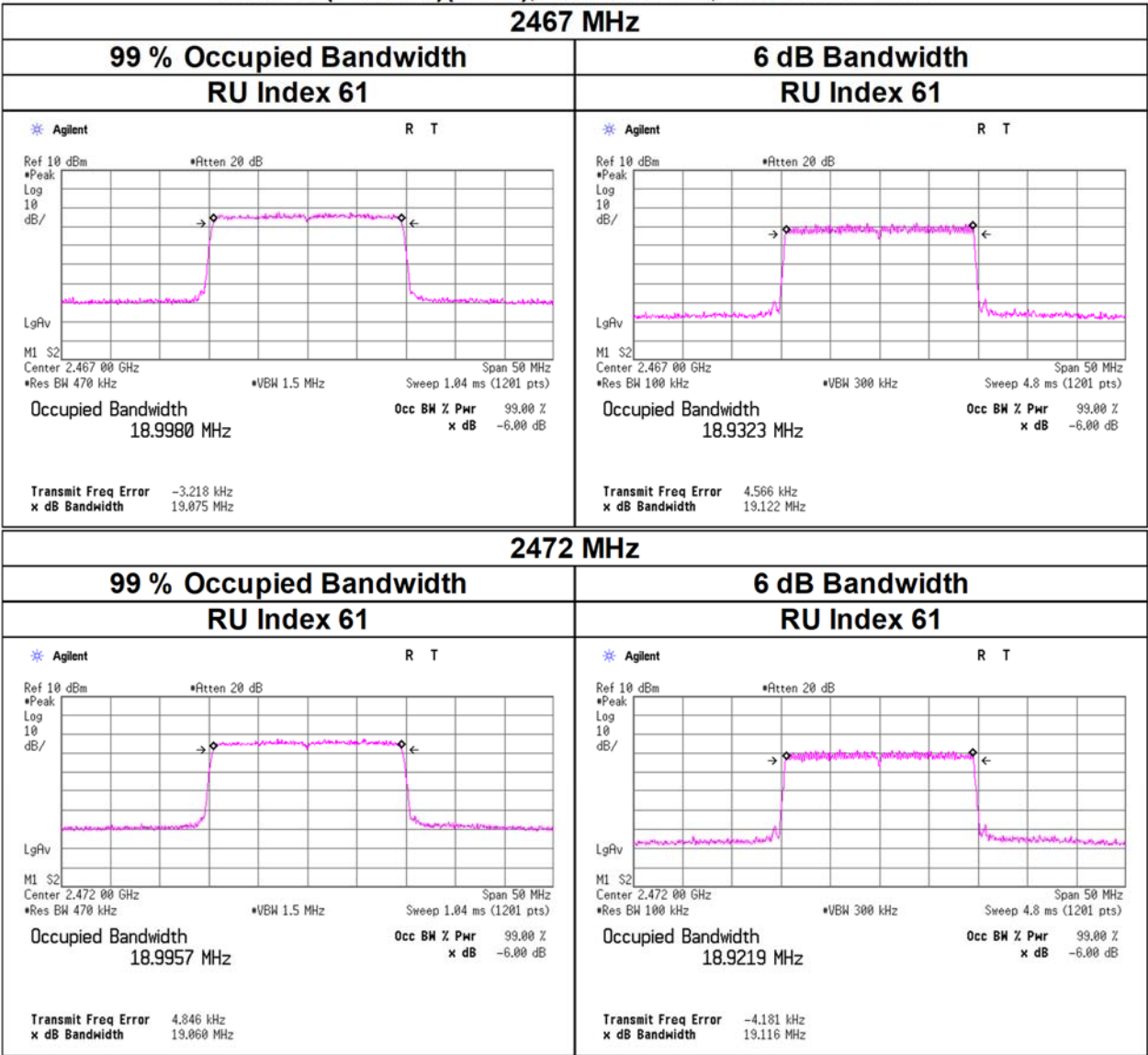


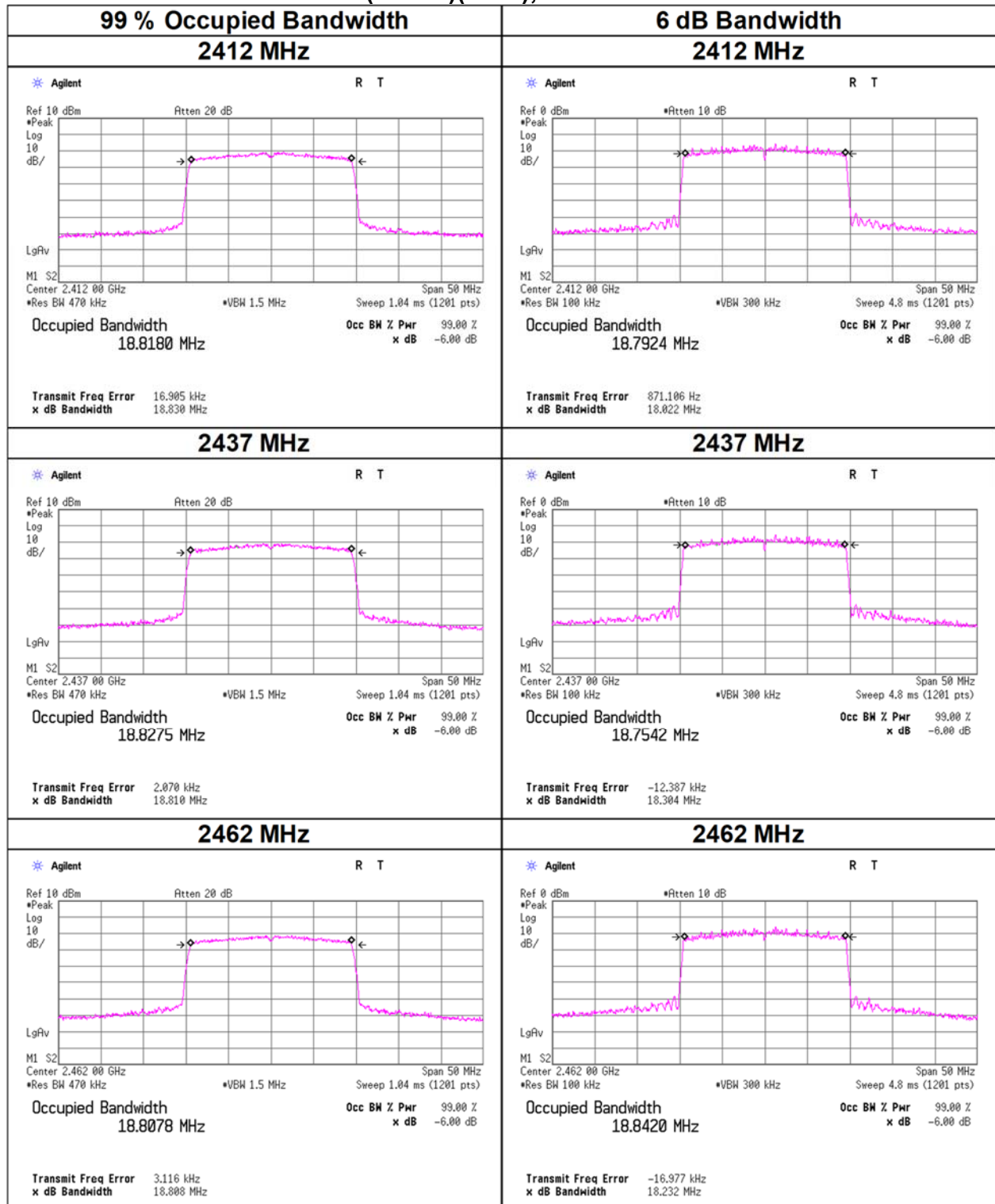
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SISO), 242-tone RU, Antenna : Ant 0



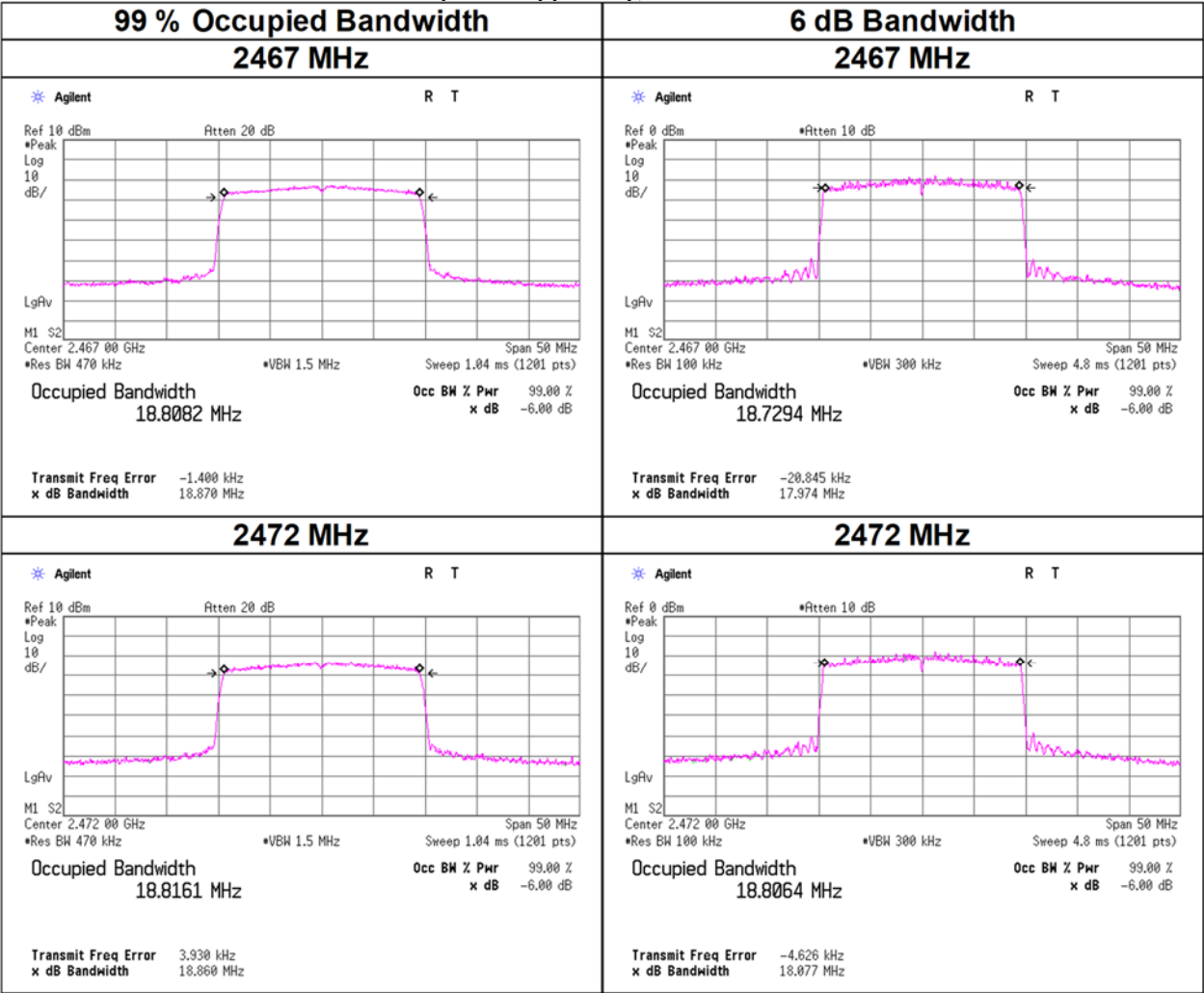
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDM)(SDM), Antenna : Ant 0



99 % Occupied Bandwidth and 6 dB Bandwidth

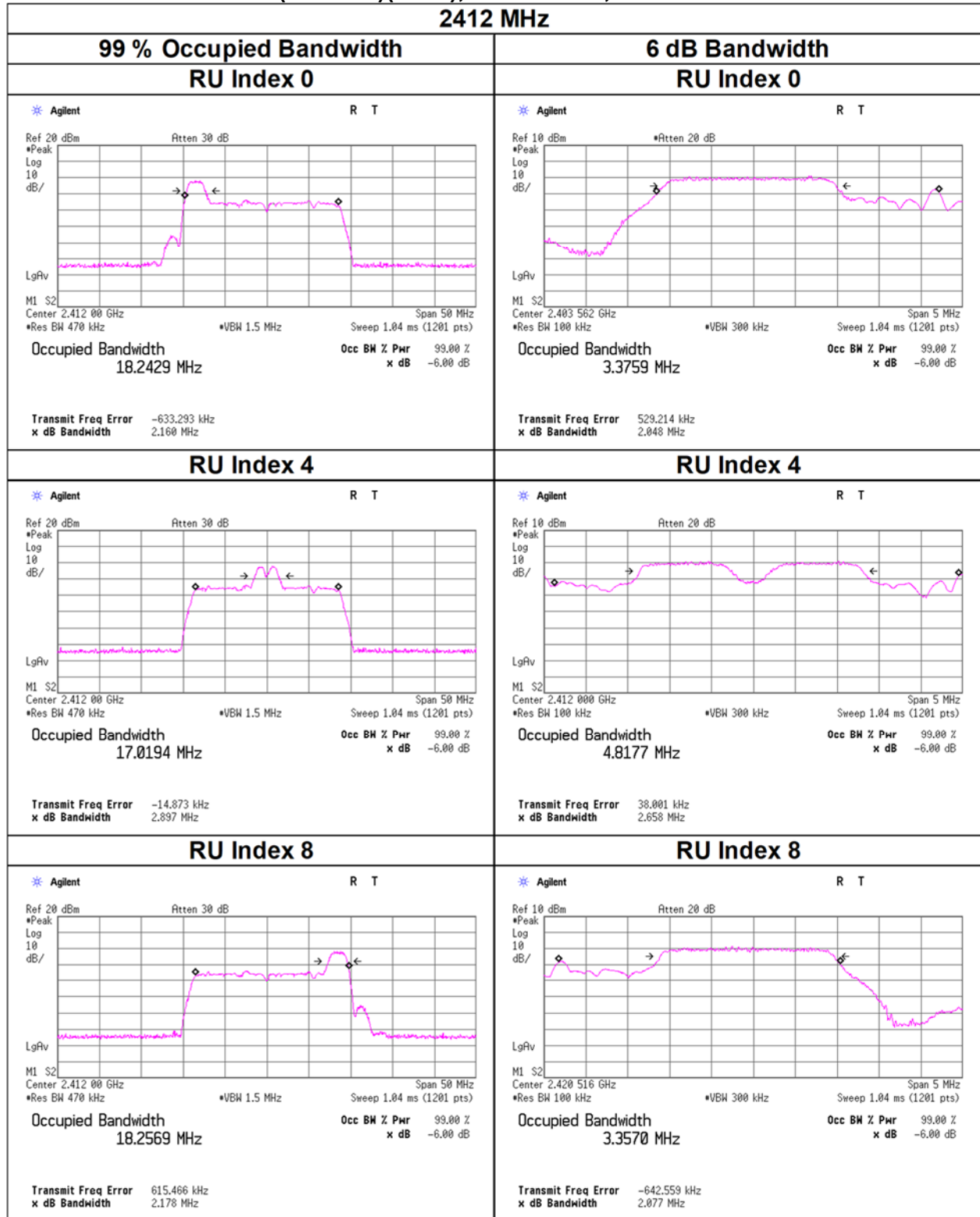
11ax-20(OFDM)(SDM), Antenna : Ant 0



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 26-tone RU, Antenna : Ant 0

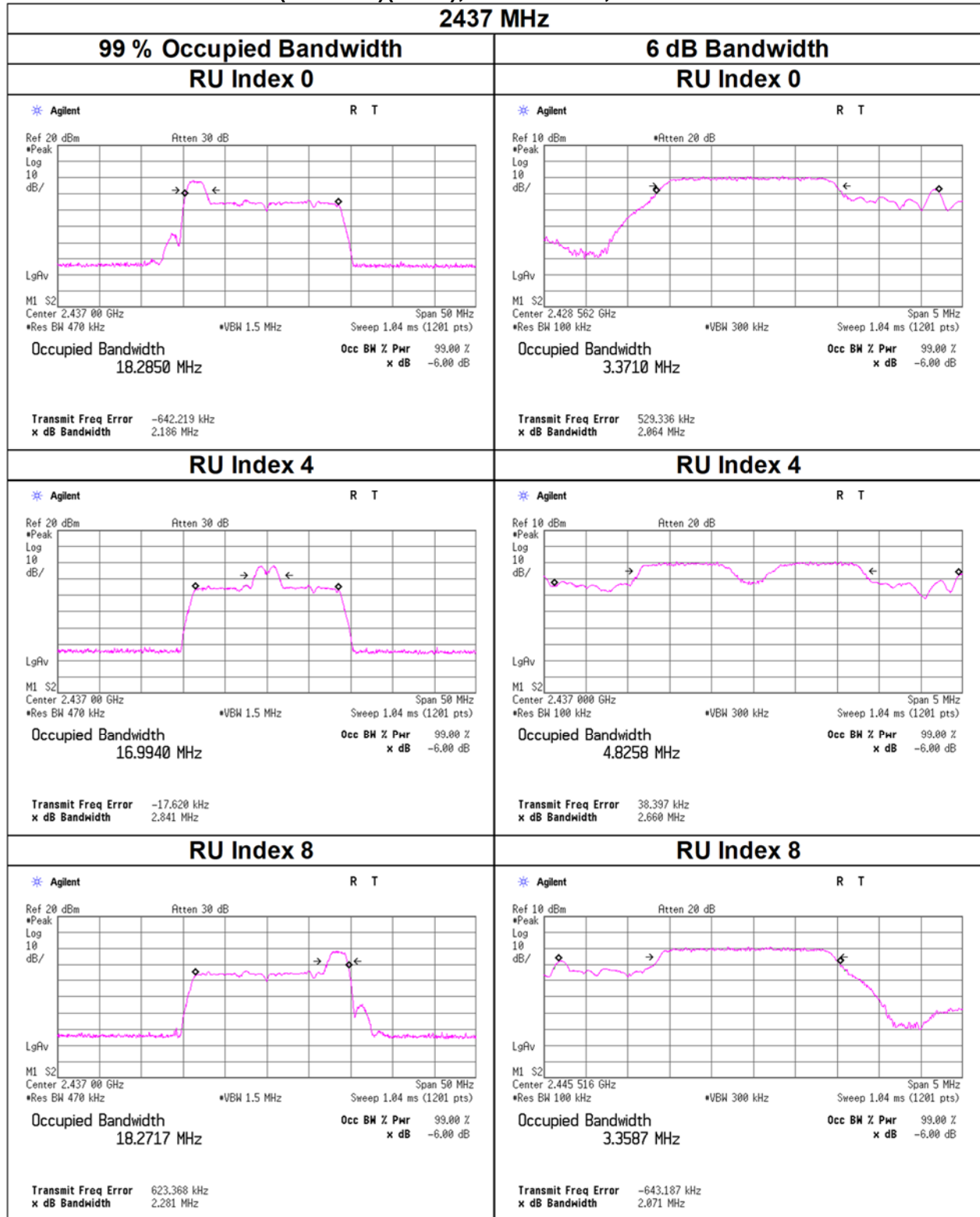
2412 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 26-tone RU, Antenna : Ant 0

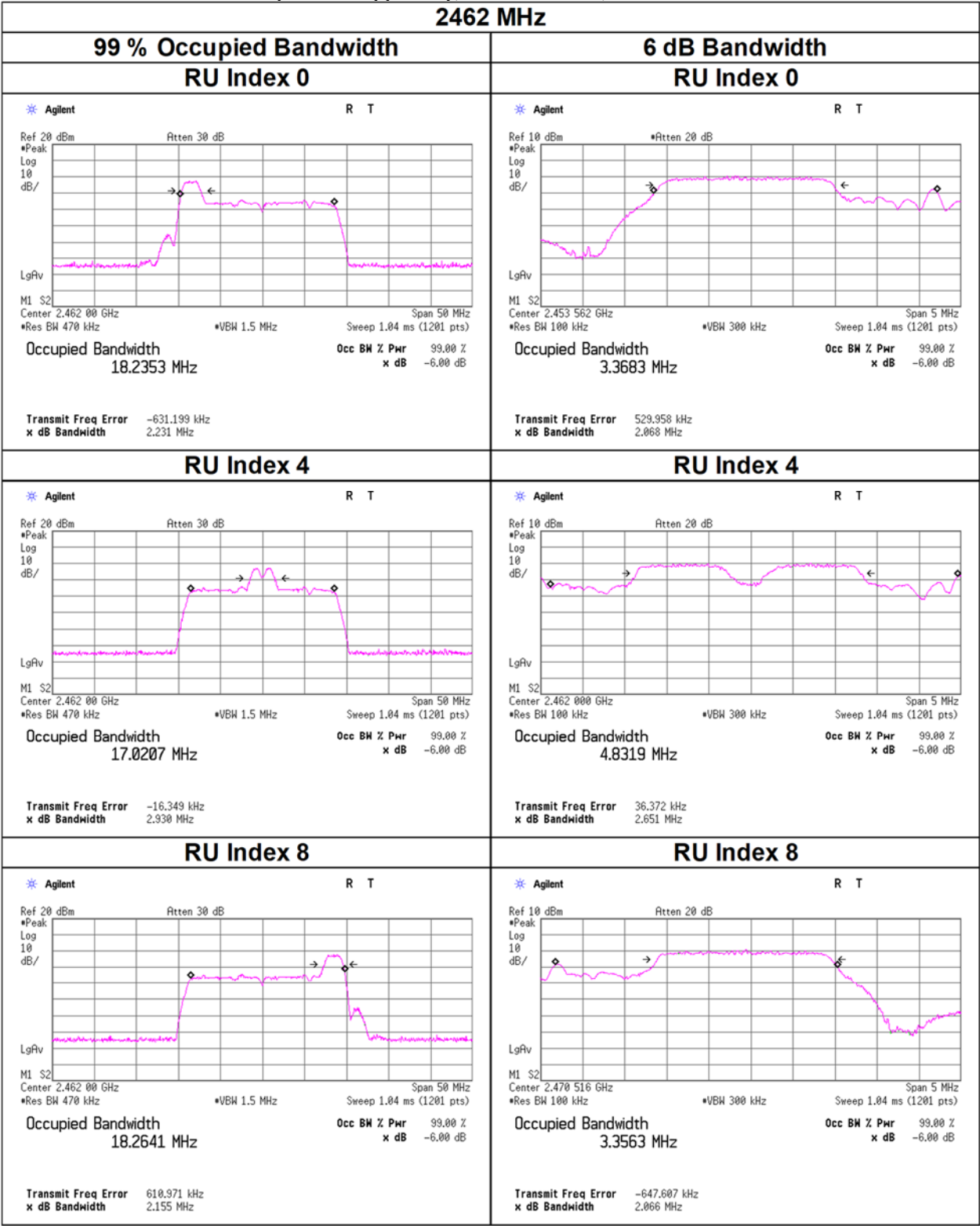
2437 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 26-tone RU, Antenna : Ant 0

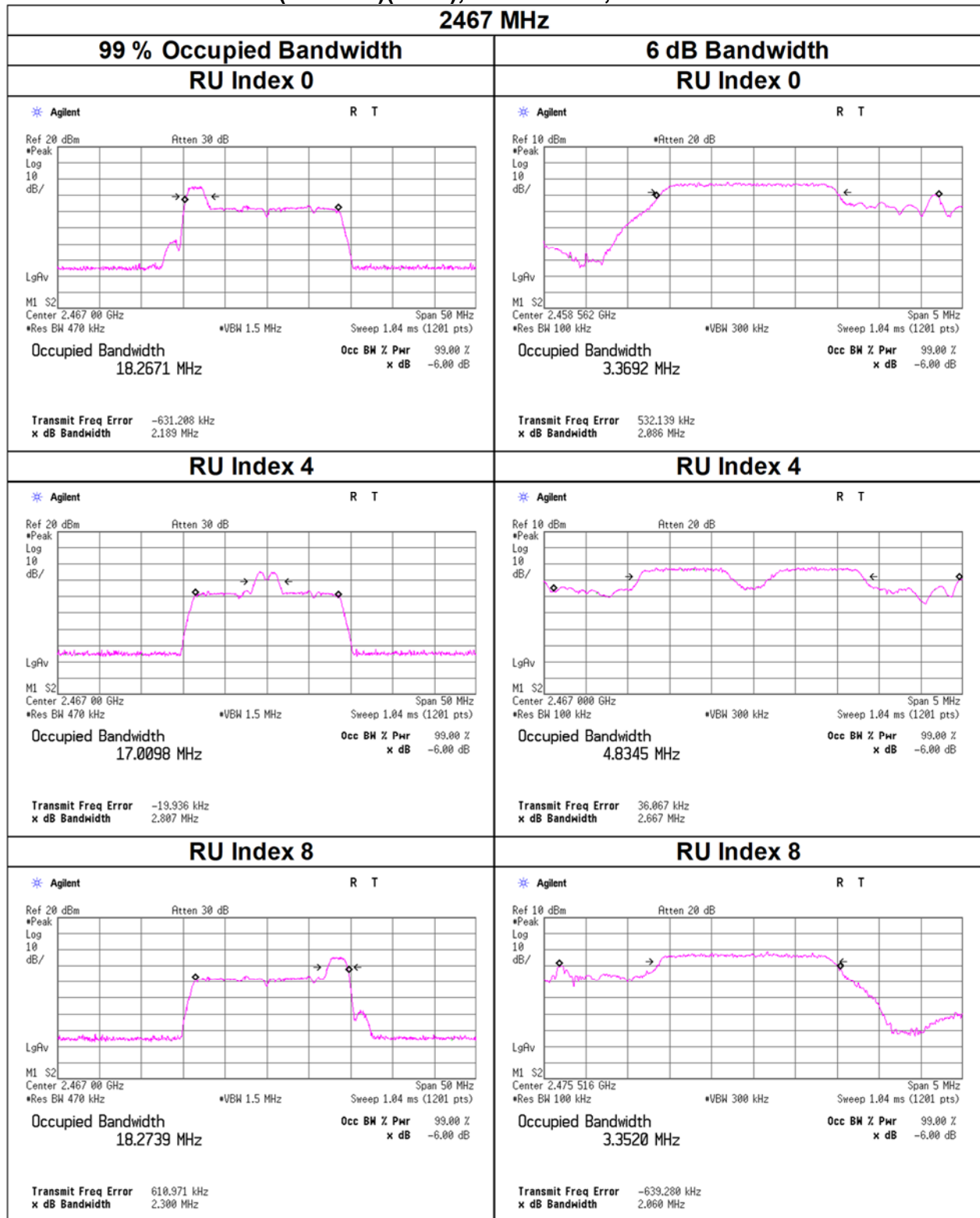
2462 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 26-tone RU, Antenna : Ant 0

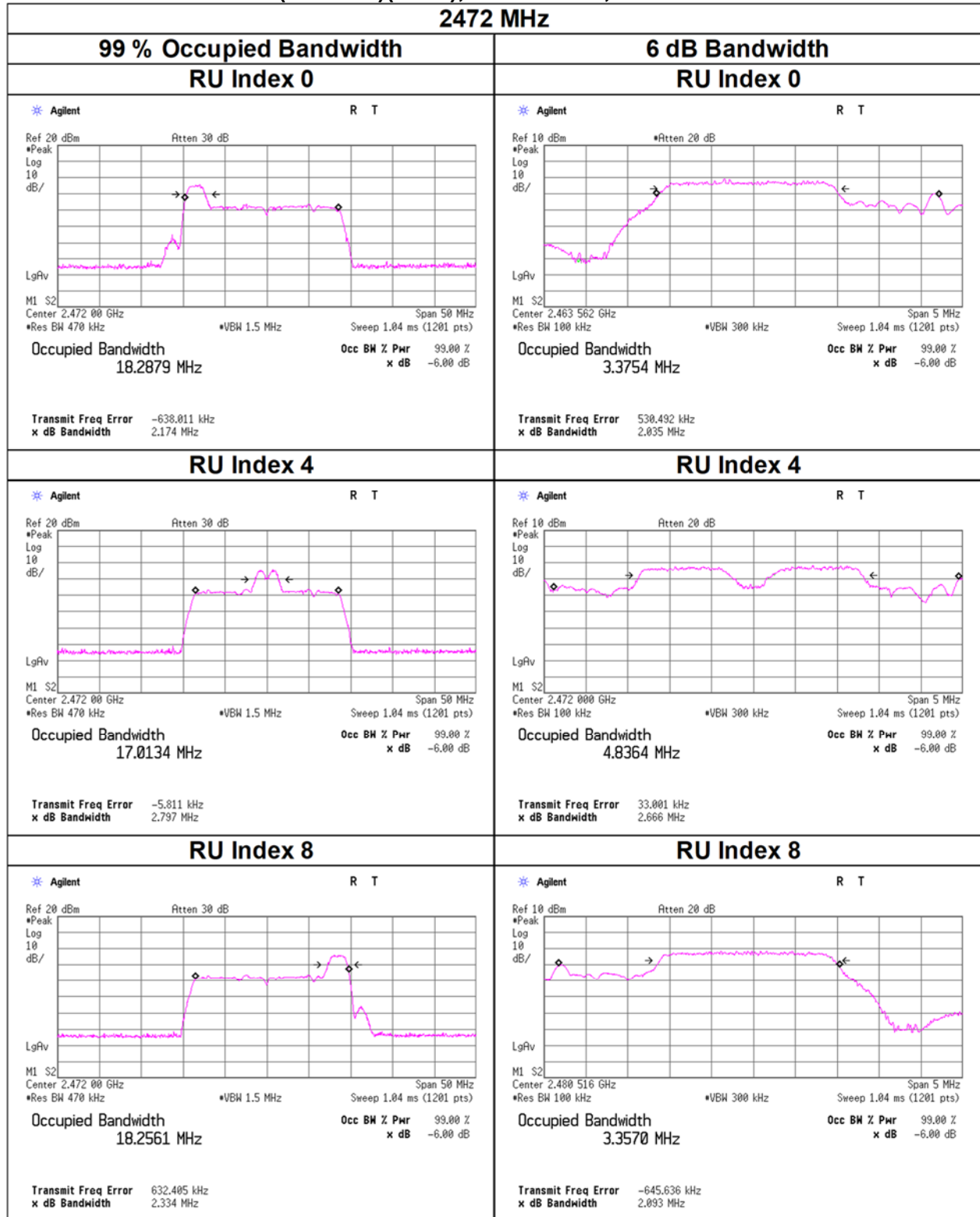
2467 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 26-tone RU, Antenna : Ant 0

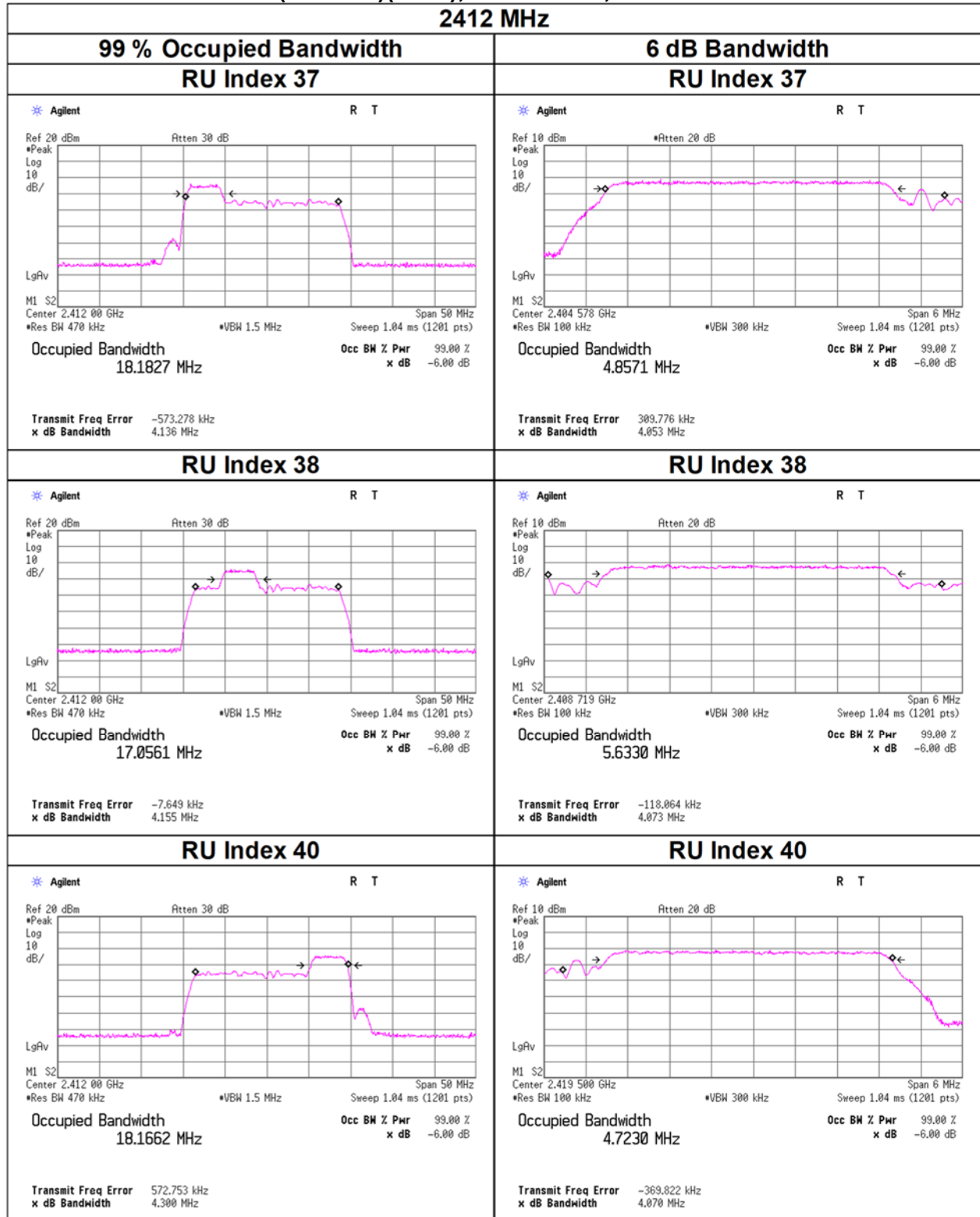
2472 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 52-tone RU, Antenna : Ant 0

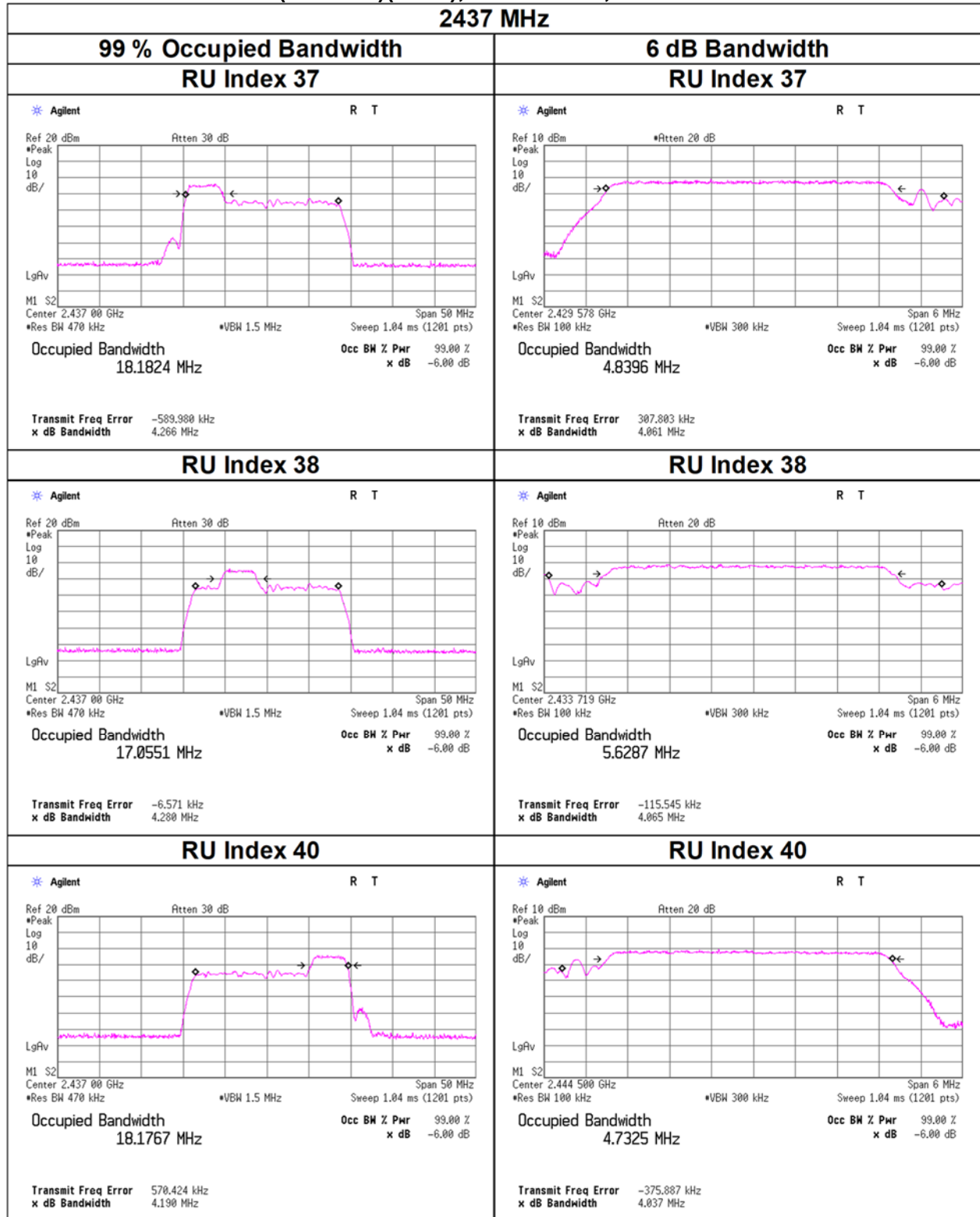
2412 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 52-tone RU, Antenna : Ant 0

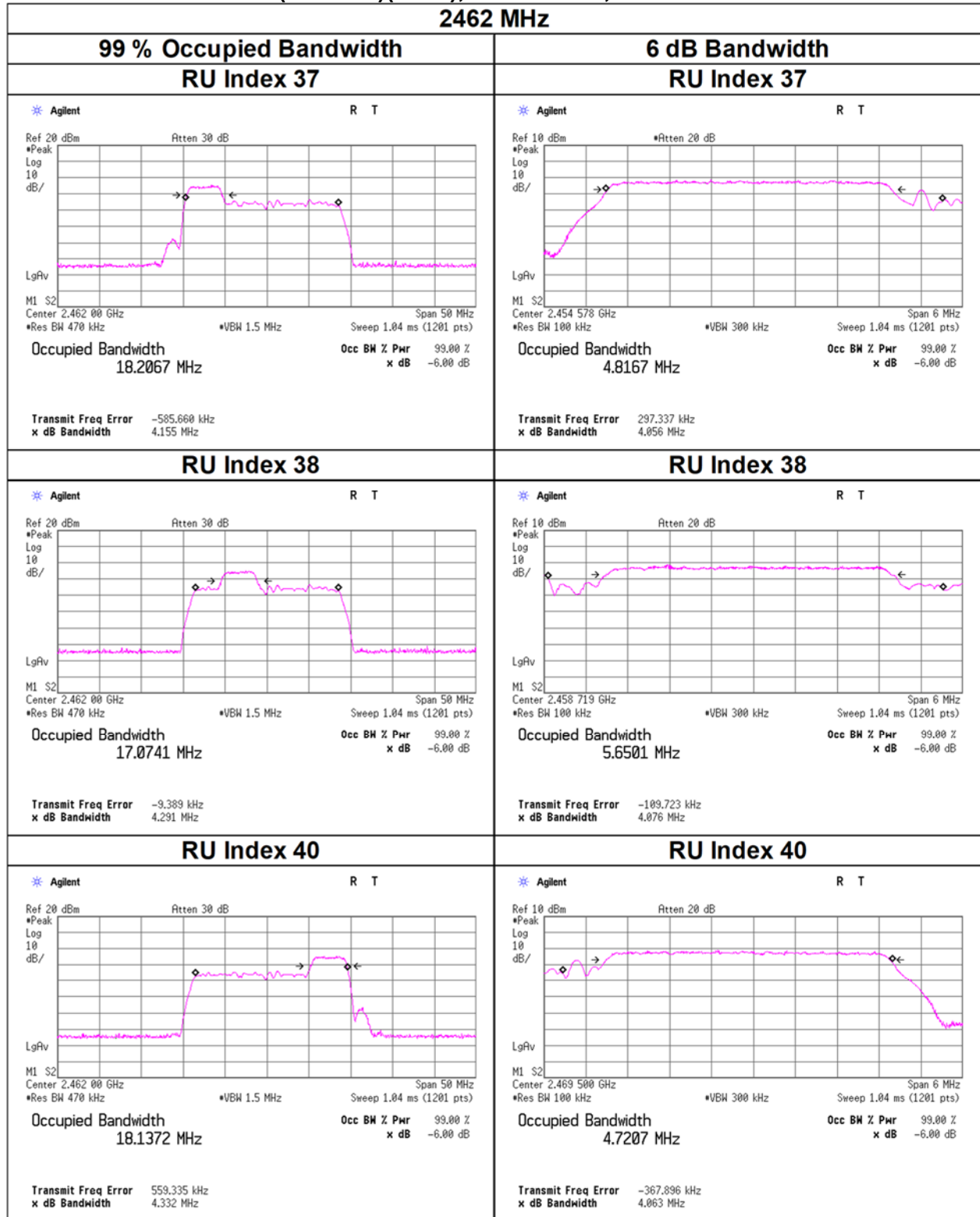
2437 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 52-tone RU, Antenna : Ant 0

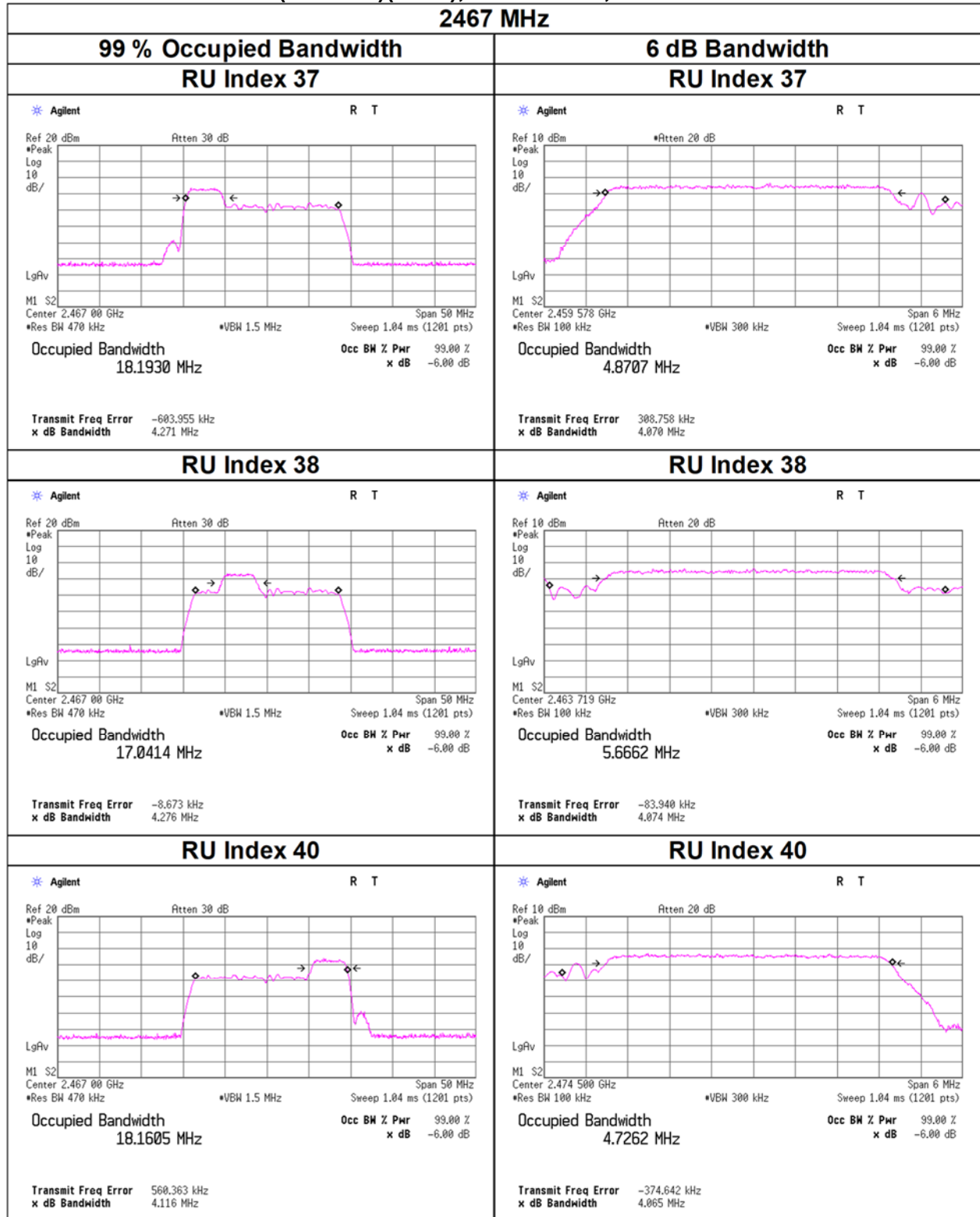
2462 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 52-tone RU, Antenna : Ant 0

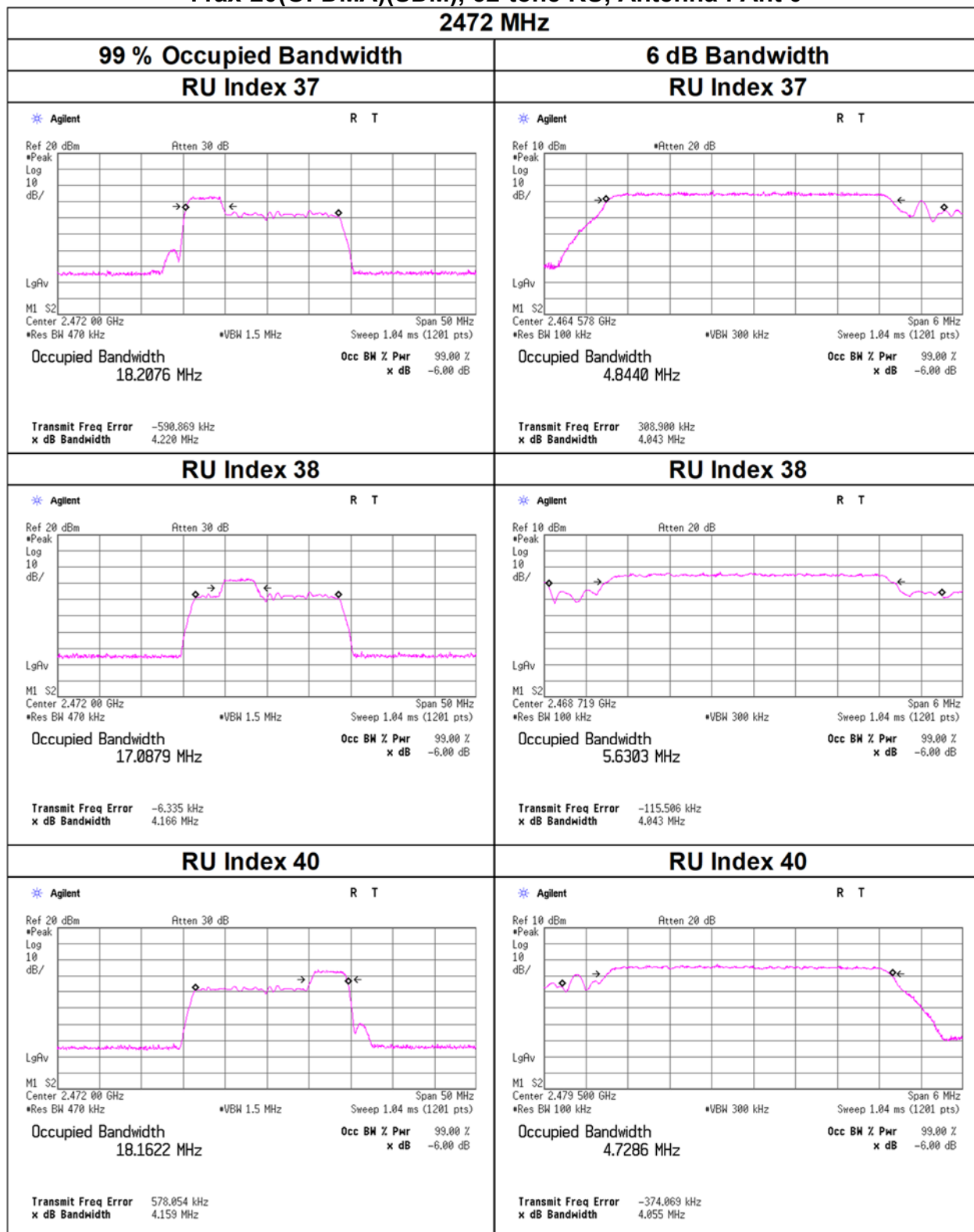
2467 MHz



99 % Occupied Bandwidth and 6 dB Bandwidth

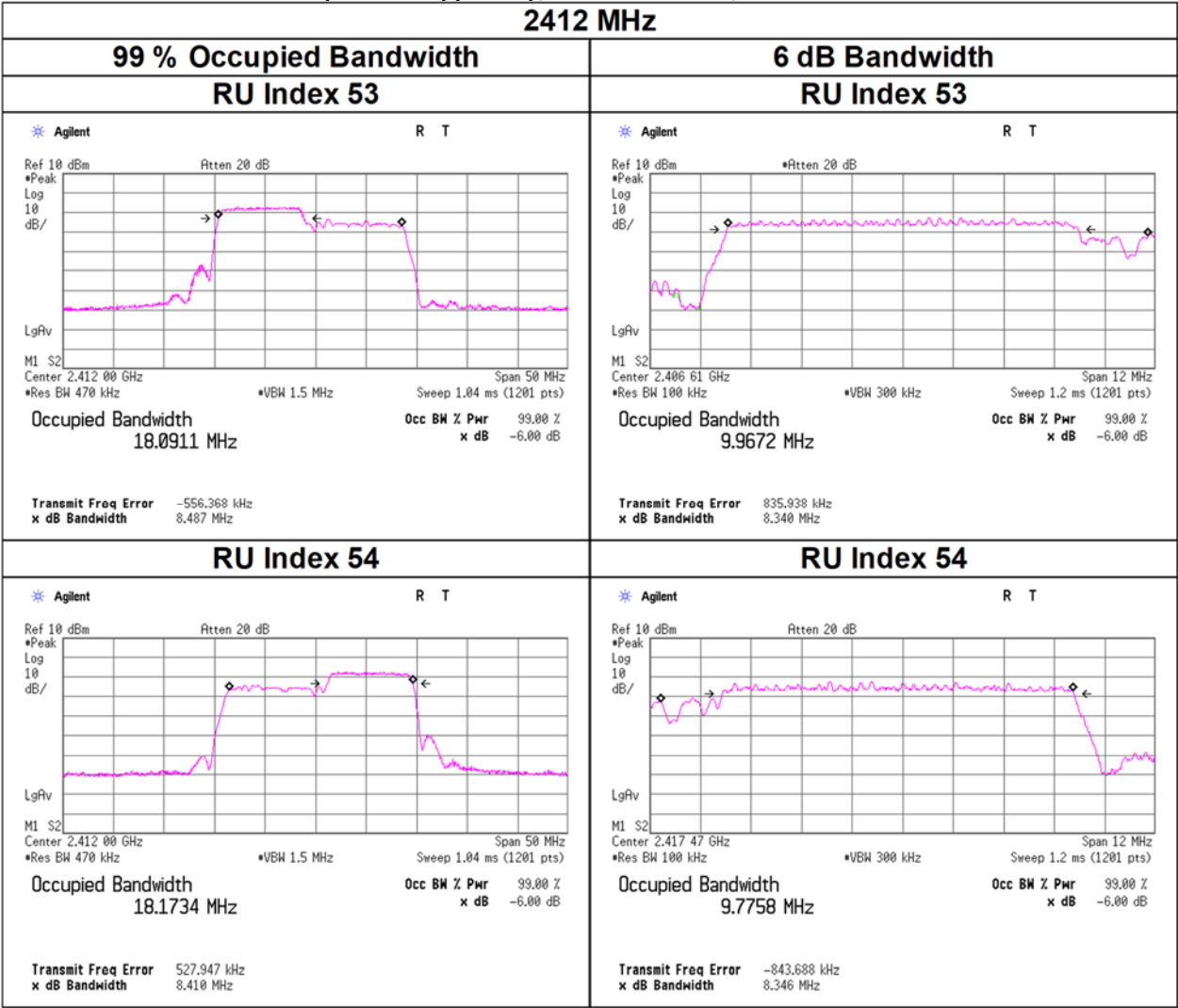
11ax-20(OFDMA)(SDM), 52-tone RU, Antenna : Ant 0

2472 MHz



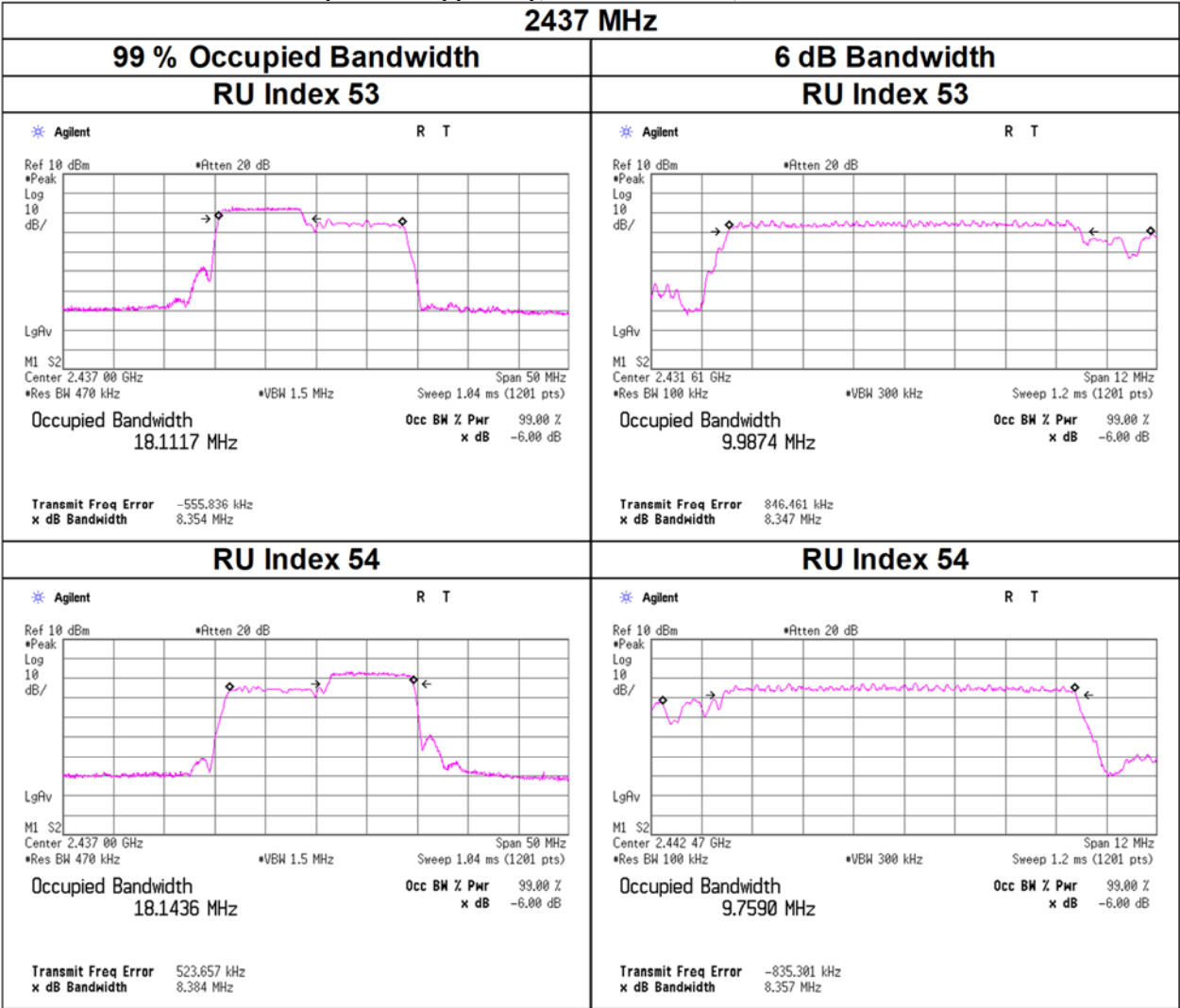
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 106-tone RU, Antenna : Ant 0



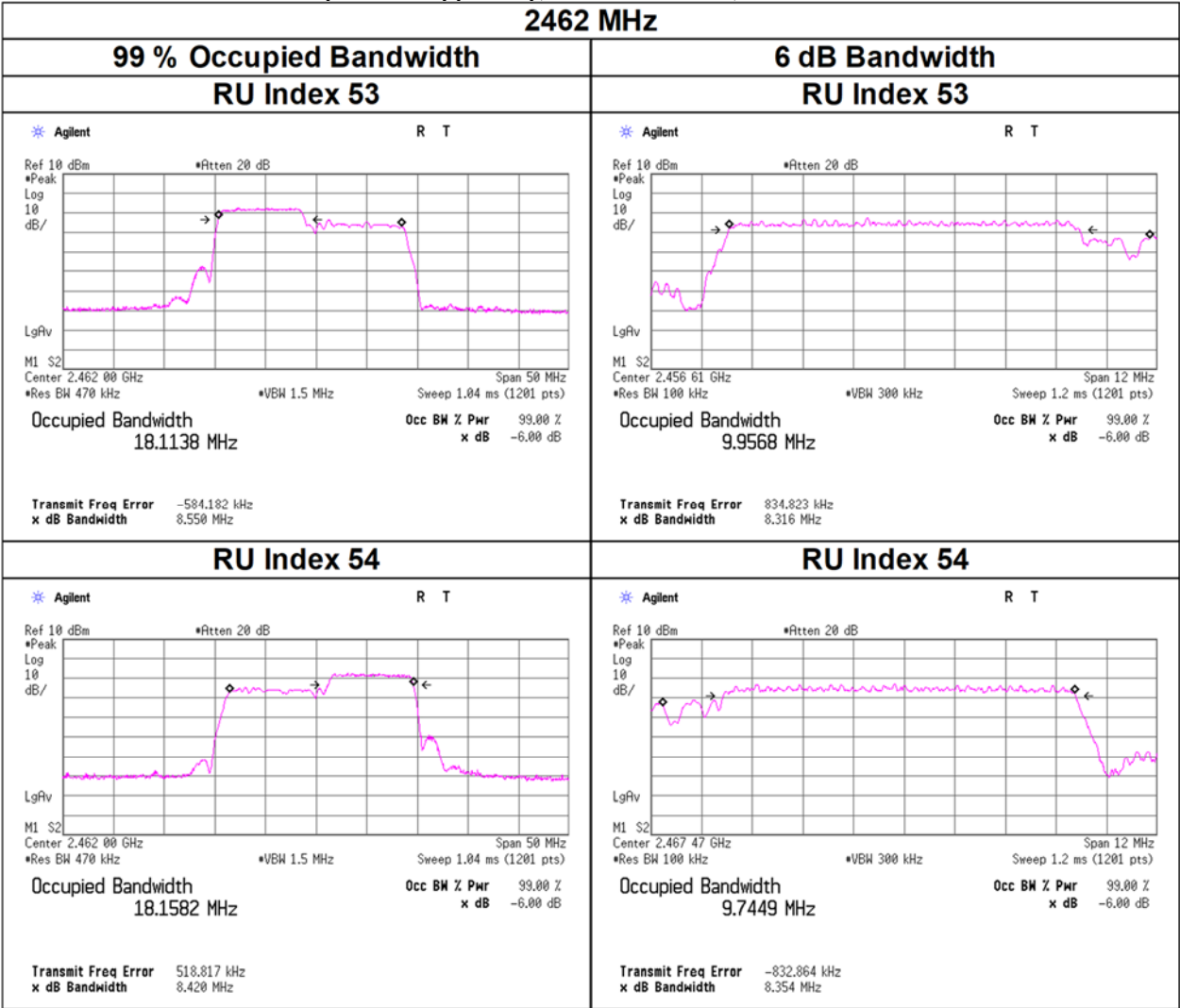
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 106-tone RU, Antenna : Ant 0



99 % Occupied Bandwidth and 6 dB Bandwidth

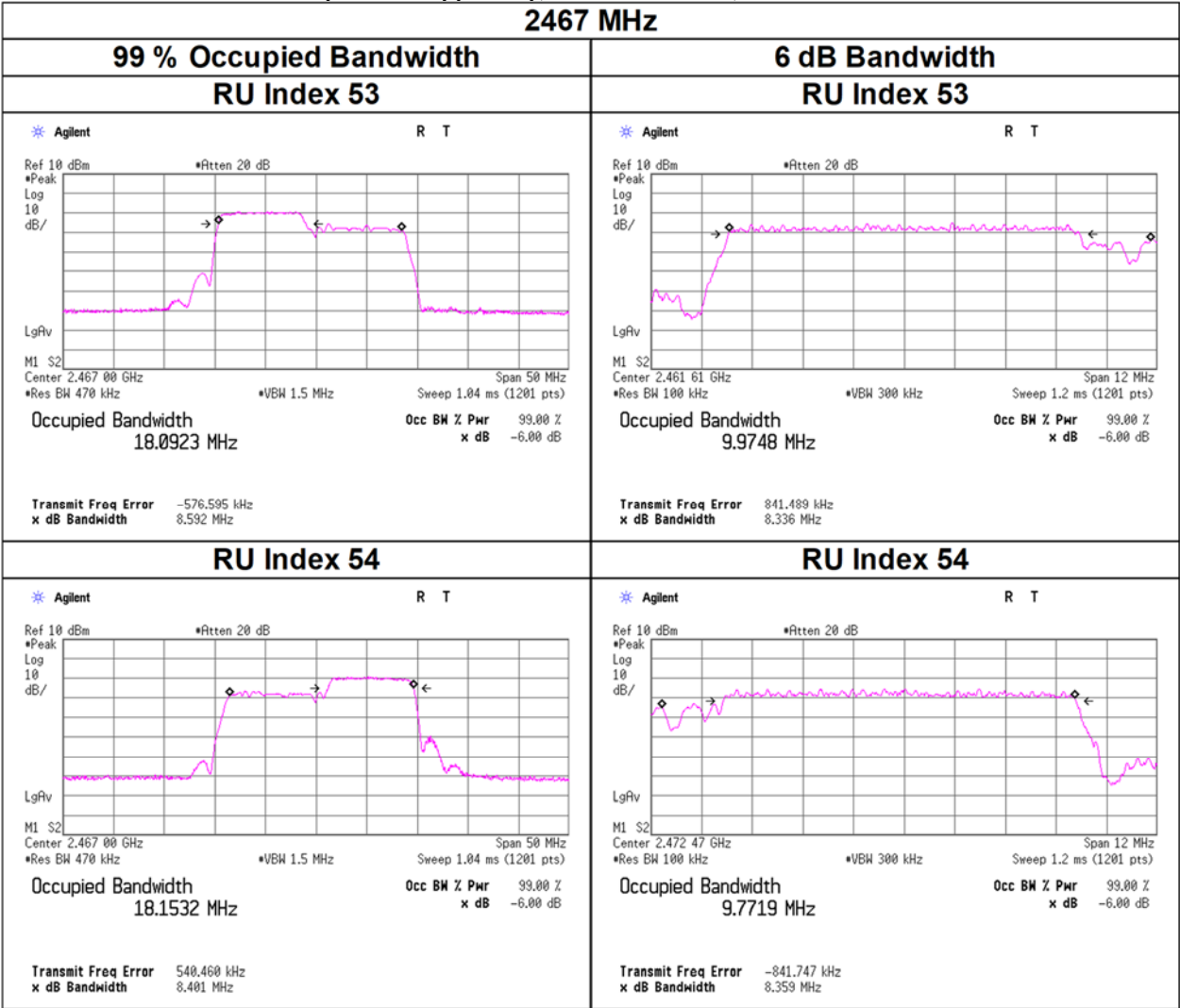
11ax-20(OFDMA)(SDM), 106-tone RU, Antenna : Ant 0



99 % Occupied Bandwidth and 6 dB Bandwidth

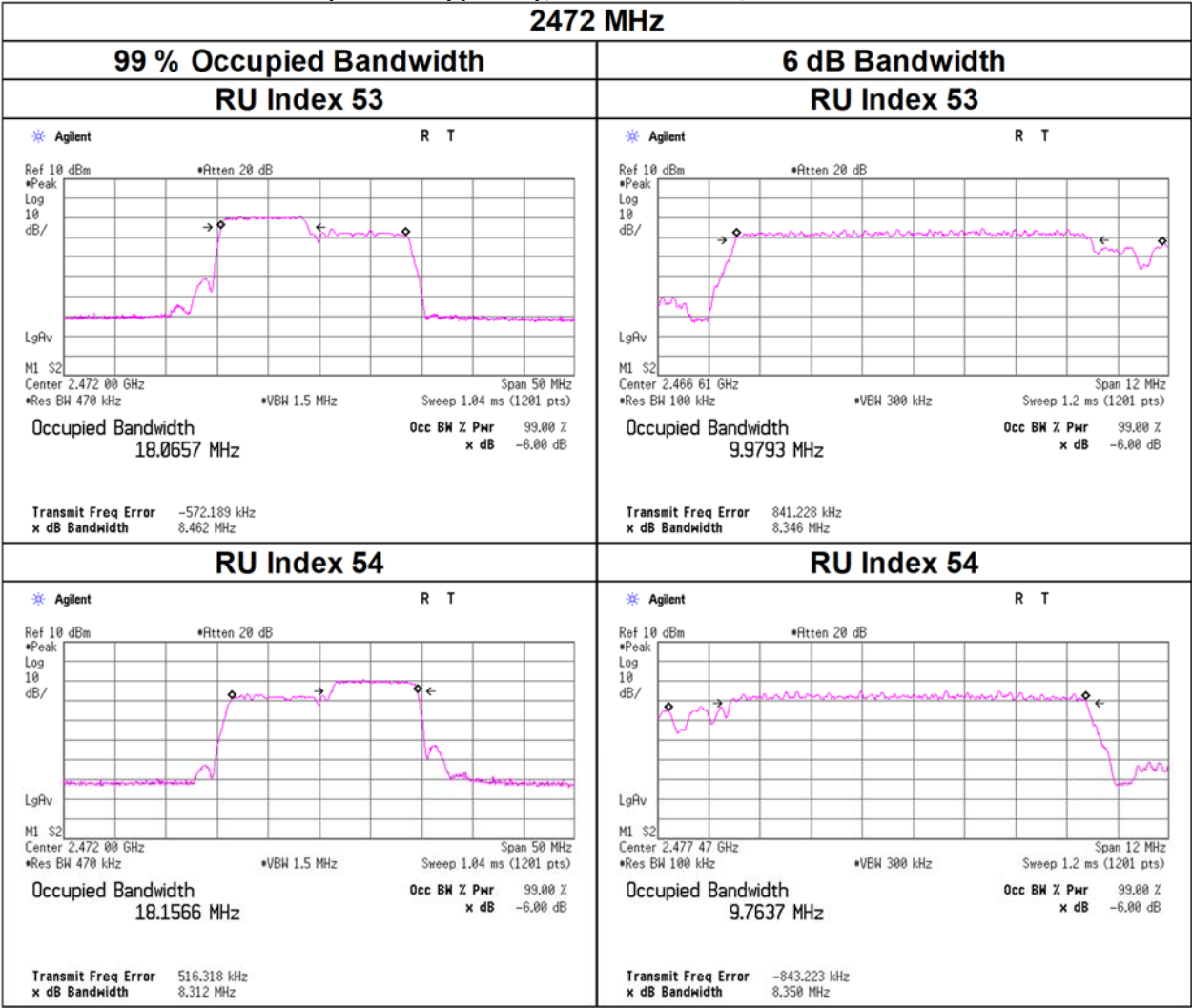
11ax-20(OFDMA)(SDM), 106-tone RU, Antenna : Ant 0

2467 MHz



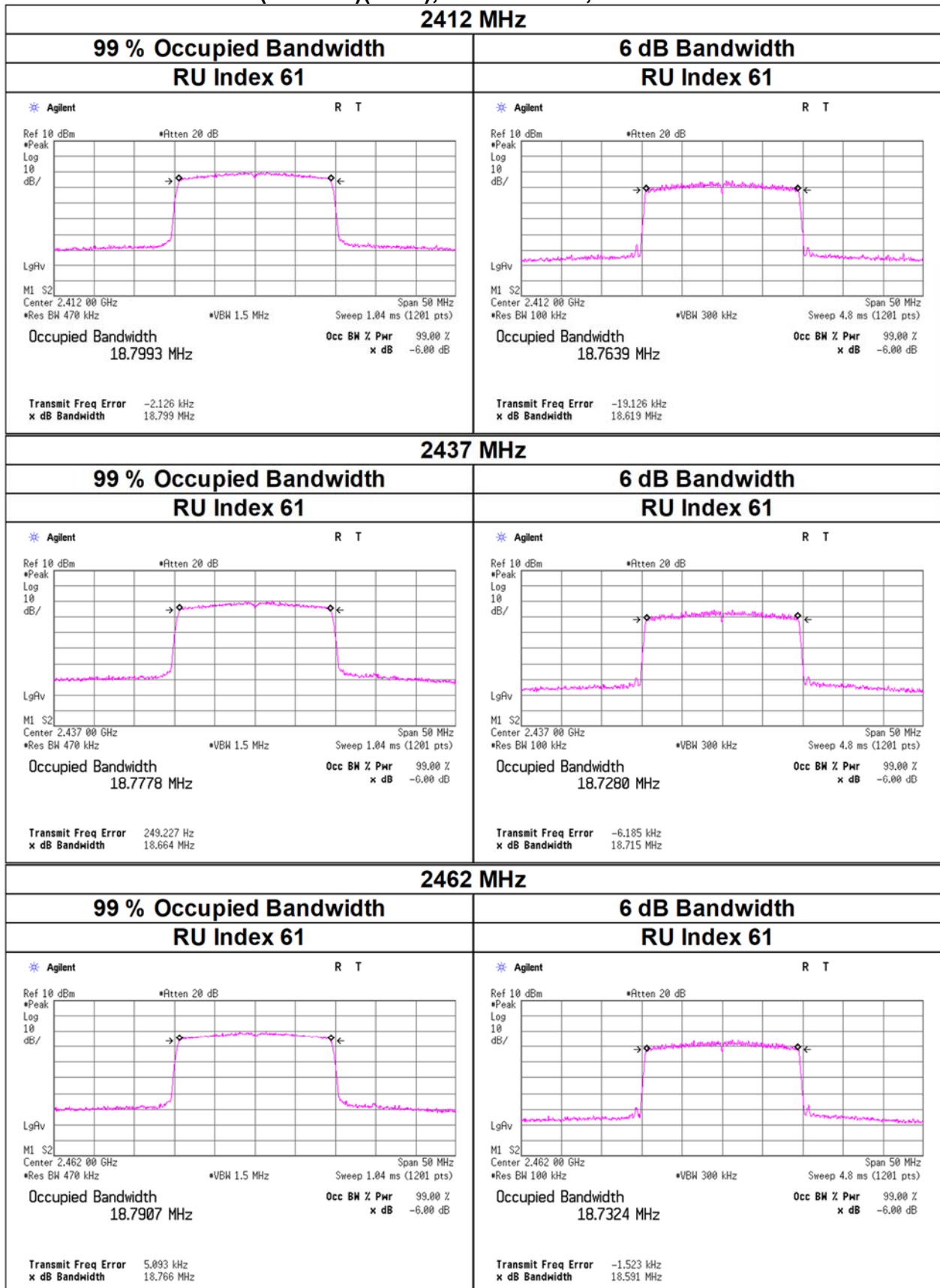
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 106-tone RU, Antenna : Ant 0



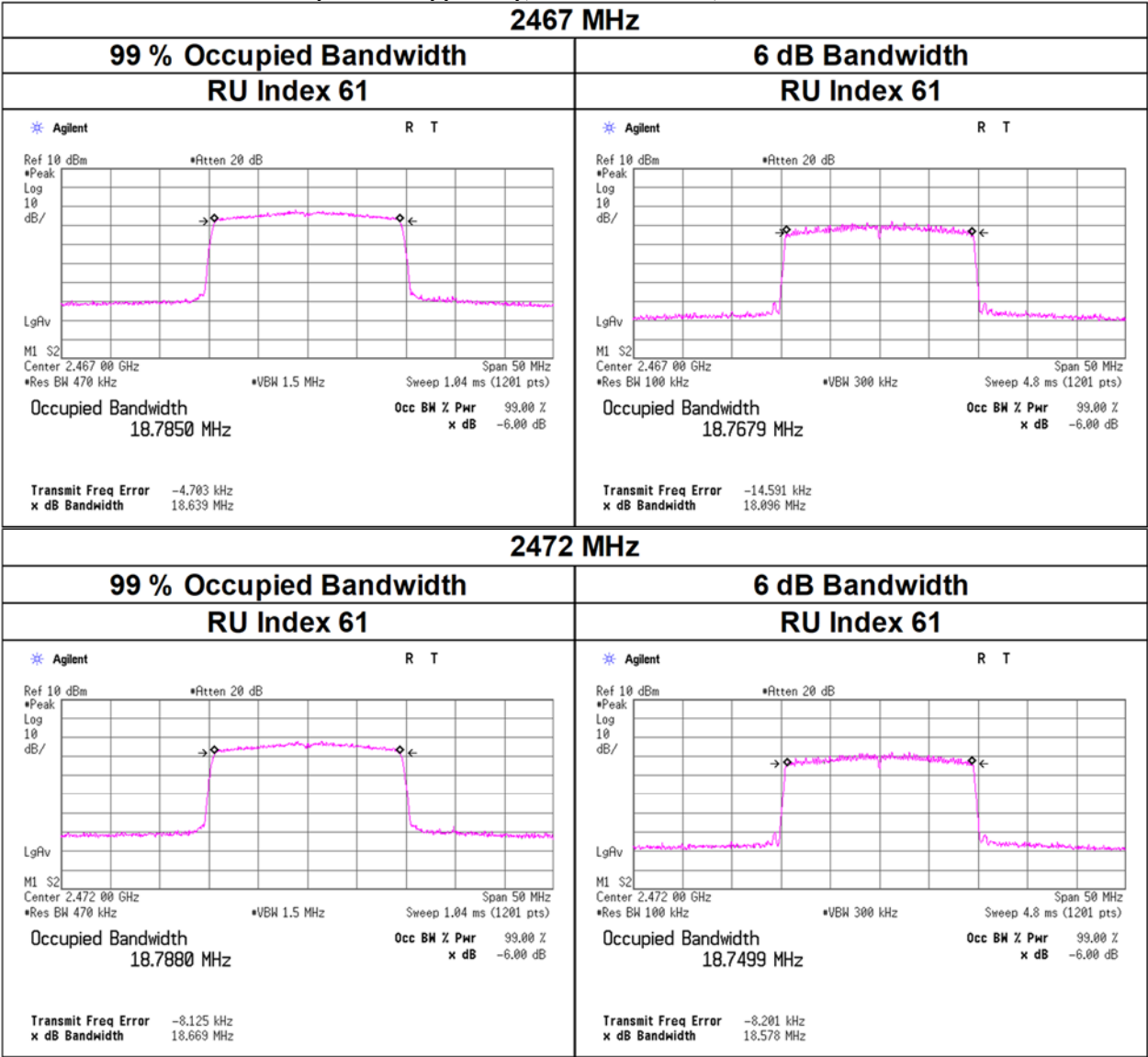
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 242-tone RU, Antenna : Ant 0



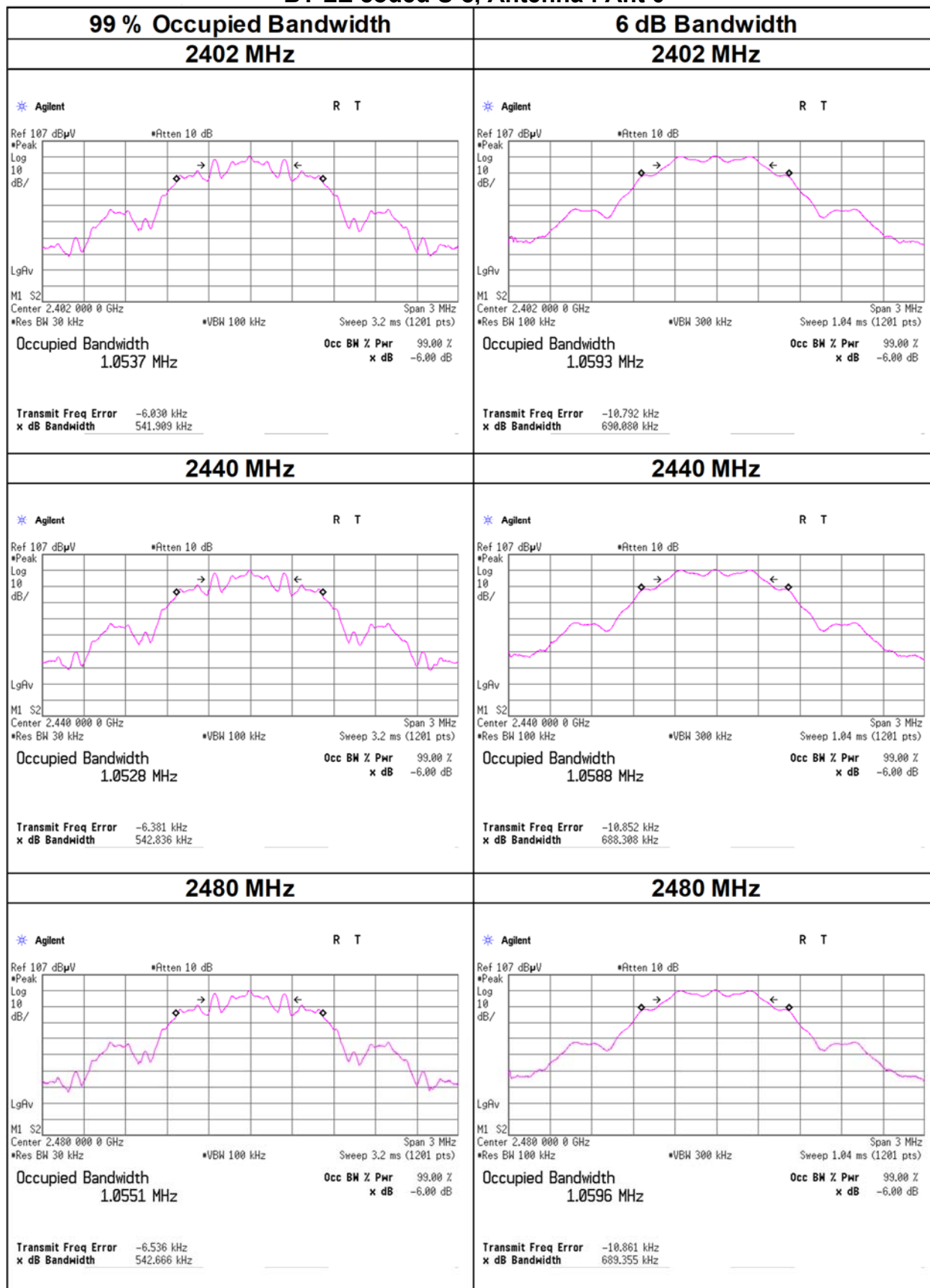
99 % Occupied Bandwidth and 6 dB Bandwidth

11ax-20(OFDMA)(SDM), 242-tone RU, Antenna : Ant 0



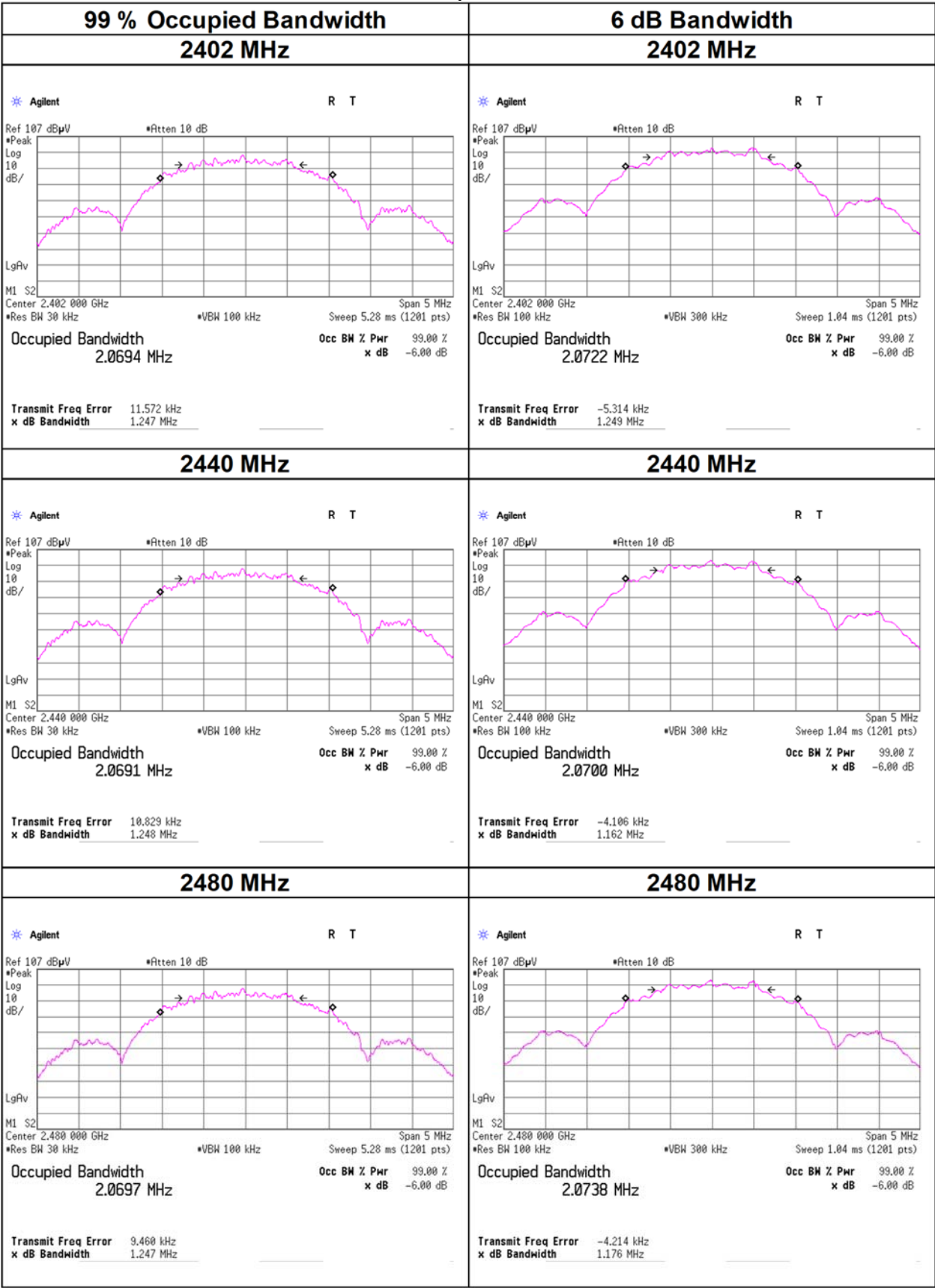
99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE coded S-8, Antenna : Ant 0



99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE 2M-PHY, Antenna : Ant 0



Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 13, 2023 March 26, 2024
Temperature / Humidity 24 deg. C / 50 % RH 23 deg. C / 35 % RH
Engineer Shiro Kobayashi Kazuya Noda
Mode Tx

11b

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]	Antenna Gain [dBi]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]	
2412	4.11	1.64	9.98	15.73	37.41	30.00	1000	14.27	0.21	15.94	39.26	36.02	4000	20.08
2437	4.08	1.65	9.98	15.71	37.24	30.00	1000	14.29	0.21	15.92	39.08	36.02	4000	20.10
2462	3.89	1.65	9.98	15.52	35.65	30.00	1000	14.48	0.21	15.73	37.41	36.02	4000	20.29
2467	-5.20	1.65	9.98	6.43	4.40	30.00	1000	23.57	0.21	6.64	4.61	36.02	4000	29.38
2472	-5.14	1.65	9.98	6.49	4.46	30.00	1000	23.51	0.21	6.70	4.68	36.02	4000	29.32

11g

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]	Antenna Gain [dBi]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]	
2412	1.50	1.64	20.27	23.41	219.28	30.00	1000	6.59	0.21	23.62	230.14	36.02	4000	12.40
2437	1.83	1.65	20.27	23.75	237.14	30.00	1000	6.25	0.21	23.96	248.89	36.02	4000	12.06
2462	1.24	1.65	20.27	23.16	207.01	30.00	1000	6.84	0.21	23.37	217.27	36.02	4000	12.65
2467	-7.65	1.65	20.27	14.27	26.73	30.00	1000	15.73	0.21	14.48	28.05	36.02	4000	21.54
2472	-7.25	1.65	20.27	14.67	29.31	30.00	1000	15.33	0.21	14.88	30.76	36.02	4000	21.14

11n-20 (SISO)

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]	Antenna Gain [dBi]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]	
2412	1.93	1.64	20.27	23.84	242.10	30.00	1000	6.16	0.21	24.05	254.10	36.02	4000	11.97
2437	1.84	1.65	20.27	23.76	237.68	30.00	1000	6.24	0.21	23.97	249.46	36.02	4000	12.05
2462	1.32	1.65	20.27	23.24	210.86	30.00	1000	6.76	0.21	23.45	221.31	36.02	4000	12.57
2467	-7.30	1.65	20.27	14.62	28.97	30.00	1000	15.38	0.21	14.83	30.41	36.02	4000	21.19
2472	-7.22	1.65	20.27	14.70	29.51	30.00	1000	15.30	0.21	14.91	30.97	36.02	4000	21.11

11ax-20 (OFDM)(SISO)

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]	Antenna Gain [dBi]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]	
2412	3.35	1.64	20.12	25.11	324.34	30.00	1000	4.89	0.21	25.32	340.41	36.02	4000	10.70
2437	3.32	1.64	20.12	25.08	322.11	30.00	1000	4.92	0.21	25.29	338.06	36.02	4000	10.73
2462	2.78	1.65	20.12	24.55	285.10	30.00	1000	5.45	0.21	24.76	299.23	36.02	4000	11.26
2467	-5.92	1.65	20.12	15.85	38.46	30.00	1000	14.15	0.21	16.06	40.36	36.02	4000	19.96
2472	-6.08	1.65	20.12	15.69	37.07	30.00	1000	14.31	0.21	15.90	38.90	36.02	4000	20.12

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*Antenna gain was applied with the maximum gain of Ant 0 & Ant 2.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 3, 2024
Temperature / Humidity 25 deg. C / 32 % RH
Engineer Kazuya Noda
Mode Tx

11ax-20(OFDMA)(SISO), RU Type: 26-tone RU

Maximum peak output power

Antenna : Ant 0

Maximum peak output power

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	0	-0.51	1.62	20.12	21.23	132.74	30.00	1000	8.77	0.21	21.44	139.32	36.02	4000	14.58
	4	-0.37	1.62	20.12	21.37	137.09	30.00	1000	8.63	0.21	21.58	143.88	36.02	4001	14.44
	8	-0.32	1.62	20.12	21.42	138.68	30.00	1000	8.58	0.21	21.63	145.55	36.02	4002	14.39
2437	0	-0.46	1.63	20.12	21.29	134.59	30.00	1000	8.71	0.21	21.50	141.25	36.02	4003	14.52
	4	-0.40	1.63	20.12	21.35	136.46	30.00	1000	8.65	0.21	21.56	143.22	36.02	4004	14.46
	8	-0.16	1.63	20.12	21.59	144.21	30.00	1000	8.41	0.21	21.80	151.36	36.03	4005	14.23
2462	0	-0.80	1.63	20.12	20.95	124.45	30.00	1000	9.05	0.21	21.16	130.62	36.03	4006	14.87
	4	-0.55	1.63	20.12	21.20	131.83	30.00	1000	8.80	0.21	21.41	138.36	36.03	4007	14.62
	8	-0.57	1.63	20.12	21.18	131.22	30.00	1000	8.82	0.21	21.39	137.72	36.03	4008	14.64
2467	0	-6.77	1.63	20.12	14.98	31.48	30.00	1000	15.02	0.21	15.19	33.04	36.02	4003	20.83
	4	-6.46	1.63	20.12	15.29	33.81	30.00	1000	14.71	0.21	15.50	35.48	36.02	4004	20.52
	8	-6.57	1.63	20.12	15.18	32.96	30.00	1000	14.82	0.21	15.39	34.59	36.03	4005	20.64
2472	0	-6.99	1.63	20.12	14.76	29.92	30.00	1000	15.24	0.21	14.97	31.41	36.03	4006	21.06
	4	-6.72	1.63	20.12	15.03	31.84	30.00	1000	14.97	0.21	15.24	33.42	36.03	4007	20.79
	8	-6.68	1.63	20.12	15.07	32.14	30.00	1000	14.93	0.21	15.28	33.73	36.03	4008	20.75

11ax-20(OFDMA)(SISO), RU Type: 52-tone RU

Maximum peak output power

Antenna : Ant 0

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	37	2.61	1.62	20.12	24.35	272.27	30.00	1000	5.65	0.21	24.56	285.76	36.02	4000	11.46
	38	2.33	1.62	20.12	24.07	255.27	30.00	1000	5.93	0.21	24.28	267.92	36.02	4001	11.74
	40	2.63	1.62	20.12	24.37	273.53	30.00	1000	5.63	0.21	24.58	287.08	36.02	4002	11.44
2437	37	2.36	1.63	20.12	24.11	257.63	30.00	1000	5.89	0.21	24.32	270.40	36.02	4003	11.70
	38	2.56	1.63	20.12	24.31	269.77	30.00	1000	5.69	0.21	24.52	283.14	36.02	4004	11.50
	40	2.94	1.63	20.12	24.69	294.44	30.00	1000	5.31	0.21	24.90	309.03	36.03	4005	11.13
2462	37	1.96	1.63	20.12	23.71	234.96	30.00	1000	6.29	0.21	23.92	246.60	36.03	4006	12.11
	38	2.28	1.63	20.12	24.03	252.93	30.00	1000	5.97	0.21	24.24	265.46	36.03	4007	11.79
	40	2.36	1.63	20.12	24.11	257.63	30.00	1000	5.89	0.21	24.32	270.40	36.03	4008	11.71
2467	37	-7.29	1.63	20.12	14.46	27.93	30.00	1000	15.54	0.21	14.67	29.31	36.02	4003	21.35
	38	-7.12	1.63	20.12	14.63	29.04	30.00	1000	15.37	0.21	14.84	30.48	36.02	4004	21.18
	40	-6.96	1.63	20.12	14.79	30.13	30.00	1000	15.21	0.21	15.00	31.62	36.03	4005	21.03
2472	37	-7.31	1.63	20.12	14.44	27.80	30.00	1000	15.56	0.21	14.65	29.17	36.03	4006	21.38
	38	-7.39	1.63	20.12	14.36	27.29	30.00	1000	15.64	0.21	14.57	28.64	36.03	4007	21.46
	40	-7.22	1.63	20.12	14.53	28.38	30.00	1000	15.47	0.21	14.74	29.79	36.03	4008	21.29

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*Antenna gain was applied with the maximum gain of Ant 0 & Ant 2.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 3, 2024
Temperature / Humidity 25 deg. C / 32 % RH
Engineer Kazuya Noda
Mode Tx

11ax-20(OFDMA)(SISO), RU Type: 106-tone RU

Maximum peak output power

Maximum peak output power:

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	53	2.69	1.62	20.12	24.43	277.33	30.00	1000	5.57	0.21	24.64	291.07	36.02	4000	11.38
	54	2.89	1.62	20.12	24.63	290.40	30.00	1000	5.37	0.21	24.84	304.79	36.02	4001	11.18
2437	53	2.73	1.63	20.12	24.48	280.54	30.00	1000	5.52	0.21	24.69	294.44	36.02	4002	11.33
	54	2.95	1.63	20.12	24.70	295.12	30.00	1000	5.30	0.21	24.91	309.74	36.02	4003	11.11
2462	53	2.13	1.63	20.12	23.88	244.34	30.00	1000	6.12	0.21	24.09	256.45	36.02	4004	11.93
	54	2.56	1.63	20.12	24.31	269.77	30.00	1000	5.69	0.21	24.52	283.14	36.03	4005	11.51
2467	53	-7.22	1.63	20.12	14.53	28.38	30.00	1000	15.47	0.21	14.74	29.79	36.02	4004	21.28
	54	-7.06	1.63	20.12	14.69	29.44	30.00	1000	15.31	0.21	14.90	30.90	36.03	4005	21.13
2472	53	-7.23	1.63	20.12	14.52	28.31	30.00	1000	15.48	0.21	14.73	29.72	36.03	4006	21.30
	54	-6.84	1.63	20.12	14.91	30.97	30.00	1000	15.09	0.21	15.12	32.51	36.03	4007	20.91

11ax-20(OFDMA)(SISO), RU Type: 242-tone RU

Maximum peak output power

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	61	2.51	1.62	20.12	24.25	266.07	30.00	1000	5.75	0.21	24.46	279.25	36.02	4000	11.56
2437	61	2.99	1.63	20.12	24.74	297.85	30.00	1000	5.26	0.21	24.95	312.61	36.02	4000	11.07
2462	61	2.06	1.63	20.12	23.81	240.44	30.00	1000	6.19	0.21	24.02	252.35	36.02	4000	12.00
2467	61	-7.06	1.63	20.12	14.69	29.44	30.00	1000	15.31	0.21	14.90	30.90	36.02	4000	21.12
2472	61	-6.79	1.63	20.12	14.96	31.33	30.00	1000	15.04	0.21	15.17	32.89	36.02	4000	20.85

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*Antenna gain was applied with the maximum gain of Ant 0 & Ant 2.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 13, 2023
Temperature / Humidity 24 deg. C / 50 % RH
Engineer Shiro Kobayashi
Mode Tx

11n-20 (SDM)

Maximum peak output power

Ant 0 + Ant 2

Freq. [MHz]	Conducted Power					e.i.r.p. for RSS-247				
	Result		Limit		Margin [dB]	Result		Limit		Margin [dB]
	[dBm]	[mW]	[dBm]	[mW]		[dBm]	[mW]	[dBm]	[mW]	
2412	20.15	103.56	30.00	1000	9.85	19.31	85.26	36.02	4000	16.71
2437	20.25	105.82	30.00	1000	9.75	19.44	88.00	36.02	4000	16.58
2462	20.64	115.95	30.00	1000	9.36	19.86	96.81	36.02	4000	16.16
2467	18.24	66.74	30.00	1000	11.76	17.54	56.71	36.02	4000	18.48
2472	18.33	68.14	30.00	1000	11.67	17.62	57.81	36.02	4000	18.40

Ant 0

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Conducted		Result e.i.r.p.	
					[dBm]	[mW]	[dBm]	[mW]
2412	5.19	1.64	9.98	-2.51	16.81	47.97	14.30	26.92
2437	5.11	1.65	9.98	-2.51	16.74	47.21	14.23	26.49
2462	5.44	1.65	9.98	-2.51	17.07	50.93	14.56	28.58
2467	2.73	1.65	9.98	-2.51	14.36	27.29	11.85	15.31
2472	2.85	1.65	9.98	-2.51	14.48	28.05	11.97	15.74

Ant 2

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Conducted		Result e.i.r.p.	
					[dBm]	[mW]	[dBm]	[mW]
2412	5.83	1.64	9.98	0.21	17.45	55.59	17.66	58.34
2437	6.05	1.65	9.98	0.21	17.68	58.61	17.89	61.52
2462	6.50	1.65	9.98	0.21	18.13	65.01	18.34	68.23
2467	4.33	1.65	9.98	0.21	15.96	39.45	16.17	41.40
2472	4.40	1.65	9.98	0.21	16.03	40.09	16.24	42.07

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 4, 2024
Temperature / Humidity 23 deg. C / 35 % RH
Engineer Kazuya Noda
Mode Tx

11ax-20 (OFDM)(SDM)

Maximum peak output power

Ant 0 + Ant 2

Freq.	Conducted Power					e.i.r.p. for RSS-247				
	Result		Limit		Margin	Result		Limit		Margin
	[dBm]	[mW]	[dBm]	[mW]		[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	20.89	122.63	30.00	1000	9.11	19.76	94.67	36.02	4000	16.26
2437	20.82	120.73	30.00	1000	9.18	19.74	94.21	36.02	4000	16.28
2462	20.93	123.79	30.00	1000	9.07	19.83	96.05	36.02	4000	16.20
2467	18.71	74.34	30.00	1000	11.29	17.65	58.26	36.02	4000	18.37
2472	18.80	75.77	30.00	1000	11.20	17.74	59.49	36.02	4000	18.28

Ant 0

Freq.	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Conducted		Result e.i.r.p.	
					[dBm]	[mW]	[dBm]	[mW]
2412	6.82	1.63	9.98	-2.51	18.43	69.66	15.92	39.08
2437	6.62	1.63	9.98	-2.51	18.23	66.53	15.72	37.33
2462	6.79	1.64	9.98	-2.51	18.41	69.34	15.90	38.90
2467	4.45	1.64	9.98	-2.51	16.07	40.46	13.56	22.70
2472	4.51	1.64	9.98	-2.51	16.13	41.02	13.62	23.01

Ant 2

Freq.	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Conducted		Result e.i.r.p.	
					[dBm]	[mW]	[dBm]	[mW]
2412	5.68	1.62	9.94	0.21	17.24	52.97	17.45	55.59
2437	5.77	1.63	9.94	0.21	17.34	54.20	17.55	56.89
2462	5.79	1.63	9.94	0.21	17.36	54.45	17.57	57.15
2467	3.73	1.63	9.94	0.21	15.30	33.88	15.51	35.56
2472	3.84	1.63	9.94	0.21	15.41	34.75	15.62	36.48

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 4, 2024
Temperature / Humidity 23 deg. C / 35 % RH
Engineer Kazuya Noda
Mode Tx

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

Ant 0 + Ant 2

Ant 0 + Ant 2				Conducted Power					e.i.r.p.				
Freq.	RU Index	Ant 0 Result	Ant 2 Result	Result		Limit		Margin	Result		Limit		Margin
[MHz]		[mW]	[mW]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	0	58.21	53.33	20.47	111.54	30.00	1000	9.53	19.48	88.63	36.02	4000.00	16.54
	4	65.61	54.45	20.79	120.06	30.00	1000	9.21	19.73	93.96	36.02	4000.00	16.29
	8	59.70	52.24	20.49	111.94	30.00	1000	9.51	19.46	88.32	36.02	4000.00	16.56
2437	0	53.09	48.98	20.09	102.07	30.00	1000	9.91	19.10	81.19	36.02	4000.00	16.93
	4	68.55	55.46	20.93	124.01	30.00	1000	9.07	19.85	96.67	36.02	4000.00	16.17
	8	63.68	52.48	20.65	116.16	30.00	1000	9.35	19.58	90.81	36.02	4000.00	16.44
2462	0	50.12	46.99	19.87	97.11	30.00	1000	10.13	18.89	77.44	36.02	4000.00	17.13
	4	68.55	55.98	20.95	124.52	30.00	1000	9.05	19.88	97.21	36.02	4000.00	16.14
	8	50.23	52.36	20.11	102.59	30.00	1000	9.89	19.20	83.14	36.02	4000.00	16.82
2467	0	30.55	29.38	17.78	59.93	30.00	1000	12.22	16.81	47.97	36.02	4000.00	19.21
	4	38.90	34.36	18.65	73.26	30.00	1000	11.35	17.63	57.89	36.02	4000.00	18.39
	8	34.99	33.73	18.37	68.72	30.00	1000	11.63	17.41	55.03	36.02	4000.00	18.61
2472	0	34.20	29.58	18.05	63.78	30.00	1000	11.95	17.01	50.23	36.02	4000.00	19.01
	4	39.81	33.81	18.67	73.62	30.00	1000	11.33	17.62	57.82	36.02	4000.00	18.40
	8	33.73	33.73	18.29	67.46	30.00	1000	11.71	17.35	54.32	36.02	4000.00	18.67

Sample Calculation:

Result = Ant 0 Result + Ant 2 Result

e.i.r.p. Result = Ant 0 Result (e.i.r.p.) + Ant 2 Result (e.i.r.p.)

Ant 0 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	0	6.04	1.63	9.98	17.65	58.21	-2.51	15.14	32.66
	4	6.56	1.63	9.98	18.17	65.61	-2.51	15.66	36.81
	8	6.15	1.63	9.98	17.76	59.70	-2.51	15.25	33.50
2437	0	5.64	1.63	9.98	17.25	53.09	-2.51	14.74	29.79
	4	6.75	1.63	9.98	18.36	68.55	-2.51	15.85	38.46
	8	6.43	1.63	9.98	18.04	63.68	-2.51	15.53	35.73
2462	0	5.38	1.64	9.98	17.00	50.12	-2.51	14.49	28.12
	4	6.74	1.64	9.98	18.36	68.55	-2.51	15.85	38.46
	8	5.39	1.64	9.98	17.01	50.23	-2.51	14.50	28.18
2467	0	3.23	1.64	9.98	14.85	30.55	-2.51	12.34	17.14
	4	4.28	1.64	9.98	15.90	38.90	-2.51	13.39	21.83
	8	3.82	1.64	9.98	15.44	34.99	-2.51	12.93	19.63
2472	0	3.72	1.64	9.98	15.34	34.20	-2.51	12.83	19.19
	4	4.38	1.64	9.98	16.00	39.81	-2.51	13.49	22.34
	8	3.66	1.64	9.98	15.28	33.73	-2.51	12.77	18.92

Ant 2 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	0	5.71	1.62	9.94	17.27	53.33	0.21	17.48	55.98
	4	5.80	1.62	9.94	17.36	54.45	0.21	17.57	57.15
	8	5.62	1.62	9.94	17.18	52.24	0.21	17.39	54.83
2437	0	5.33	1.63	9.94	16.90	48.98	0.21	17.11	51.40
	4	5.87	1.63	9.94	17.44	55.46	0.21	17.65	58.21
	8	5.63	1.63	9.94	17.20	52.48	0.21	17.41	55.08
2462	0	5.15	1.63	9.94	16.72	46.99	0.21	16.93	49.32
	4	5.91	1.63	9.94	17.48	55.98	0.21	17.69	58.75
	8	5.62	1.63	9.94	17.19	52.36	0.21	17.40	54.95
2467	0	3.11	1.63	9.94	14.68	29.38	0.21	14.89	30.83
	4	3.79	1.63	9.94	15.36	34.36	0.21	15.57	36.06
	8	3.71	1.63	9.94	15.28	33.73	0.21	15.49	35.40
2472	0	3.14	1.63	9.94	14.71	29.58	0.21	14.92	31.05
	4	3.72	1.63	9.94	15.29	33.81	0.21	15.50	35.48
	8	3.71	1.63	9.94	15.28	33.73	0.21	15.49	35.40

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 10, 2024
Temperature / Humidity 24 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

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

Ant 0 + Ant 2

Ant 0 + Ant 2				Conducted Power					e.i.r.p.				
Freq.	RU Index	Ant 0 Result	Ant 2 Result	Result		Limit		Margin	Result		Limit		Margin
[MHz]		[mW]	[mW]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	37	58.48	59.16	20.71	117.64	30.00	1000	9.29	19.77	94.90	36.02	4000.00	16.25
	38	54.08	54.45	20.36	108.53	30.00	1000	9.64	19.42	87.49	36.02	4000.00	16.60
	40	61.94	56.36	20.73	118.31	30.00	1000	9.27	19.73	93.91	36.02	4000.00	16.29
2437	37	56.36	56.36	20.52	112.73	30.00	1000	9.48	19.58	90.78	36.02	4000.00	16.44
	38	54.83	51.05	20.25	105.88	30.00	1000	9.75	19.26	84.34	36.02	4000.00	16.76
	40	59.70	56.49	20.65	116.20	30.00	1000	9.35	19.67	92.79	36.02	4000.00	16.35
2462	37	55.21	52.24	20.31	107.45	30.00	1000	9.69	19.33	85.80	36.02	4000.00	16.69
	38	52.48	52.00	20.19	104.48	30.00	1000	9.81	19.24	84.02	36.02	4000.00	16.78
	40	54.33	54.33	20.36	108.65	30.00	1000	9.64	19.42	87.50	36.02	4000.00	16.60
2467	37	33.65	31.55	18.14	65.20	30.00	1000	11.86	17.16	51.99	36.02	4000.00	18.86
	38	33.65	30.27	18.06	63.92	30.00	1000	11.94	17.05	50.65	36.02	4000.00	18.97
	40	33.96	33.04	18.26	67.00	30.00	1000	11.74	17.30	53.73	36.02	4000.00	18.72
2472	37	32.81	30.41	18.01	63.22	30.00	1000	11.99	17.02	50.32	36.02	4000.00	19.00
	38	30.90	29.65	17.82	60.55	30.00	1000	12.18	16.85	48.46	36.02	4000.00	19.17
	40	30.27	30.34	17.83	60.61	30.00	1000	12.17	16.89	48.82	36.02	4000.00	19.13

Sample Calculation:

Result = Ant 0 Result + Ant 2 Result

e.i.r.p. Result = Ant 0 Result (e.i.r.p.) + Ant 2 Result (e.i.r.p.)

Ant 0 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	37	6.06	1.63	9.98	17.67	58.48	-2.51	15.16	32.81
	38	5.72	1.63	9.98	17.33	54.08	-2.51	14.82	30.34
	40	6.31	1.63	9.98	17.92	61.94	-2.51	15.41	34.75
2437	37	5.90	1.63	9.98	17.51	56.36	-2.51	15.00	31.62
	38	5.78	1.63	9.98	17.39	54.83	-2.51	14.88	30.76
	40	6.15	1.63	9.98	17.76	59.70	-2.51	15.25	33.50
2462	37	5.80	1.64	9.98	17.42	55.21	-2.51	14.91	30.97
	38	5.58	1.64	9.98	17.20	52.48	-2.51	14.69	29.44
	40	5.73	1.64	9.98	17.35	54.33	-2.51	14.84	30.48
2467	37	3.65	1.64	9.98	15.27	33.65	-2.51	12.76	18.88
	38	3.65	1.64	9.98	15.27	33.65	-2.51	12.76	18.88
	40	3.69	1.64	9.98	15.31	33.96	-2.51	12.80	19.05
2472	37	3.54	1.64	9.98	15.16	32.81	-2.51	12.65	18.41
	38	3.28	1.64	9.98	14.90	30.90	-2.51	12.39	17.34
	40	3.19	1.64	9.98	14.81	30.27	-2.51	12.30	16.98

Ant 2 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	37	6.16	1.62	9.94	17.72	59.16	0.21	17.93	62.09
	38	5.80	1.62	9.94	17.36	54.45	0.21	17.57	57.15
	40	5.95	1.62	9.94	17.51	56.36	0.21	17.72	59.16
2437	37	5.94	1.63	9.94	17.51	56.36	0.21	17.72	59.16
	38	5.51	1.63	9.94	17.08	51.05	0.21	17.29	53.58
	40	5.95	1.63	9.94	17.52	56.49	0.21	17.73	59.29
2462	37	5.61	1.63	9.94	17.18	52.24	0.21	17.39	54.83
	38	5.59	1.63	9.94	17.16	52.00	0.21	17.37	54.58
	40	5.78	1.63	9.94	17.35	54.33	0.21	17.56	57.02
2467	37	3.42	1.63	9.94	14.99	31.55	0.21	15.20	33.11
	38	3.24	1.63	9.94	14.81	30.27	0.21	15.02	31.77
	40	3.62	1.63	9.94	15.19	33.04	0.21	15.40	34.67
2472	37	3.26	1.63	9.94	14.83	30.41	0.21	15.04	31.92
	38	3.15	1.63	9.94	14.72	29.65	0.21	14.93	31.12
	40	3.25	1.63	9.94	14.82	30.34	0.21	15.03	31.84

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 10, 2024
Temperature / Humidity 24 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

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

Ant 0 + Ant 2

Freq. [MHz]	RU Index	Ant 0 Result [mW]	Ant 2 Result [mW]	Conducted Power					e.i.r.p.				
				Result		Limit		Margin	Result		Limit		Margin
				[dBm]	[mW]	[dBm]	[mW]		[dBm]	[mW]	[dBm]	[mW]	
2412	53	60.53	49.66	20.42	110.19	30.00	1000	9.58	19.35	86.08	36.02	4000.00	16.67
	54	59.43	51.88	20.47	111.31	30.00	1000	9.53	19.43	87.79	36.02	4000.00	16.59
2437	53	60.39	49.89	20.43	110.28	30.00	1000	9.57	19.36	86.24	36.02	4000.00	16.66
	54	62.37	48.42	20.45	110.79	30.00	1000	9.55	19.34	85.81	36.02	4000.00	16.69
2462	53	53.95	51.88	20.25	105.83	30.00	1000	9.75	19.28	84.72	36.02	4000.00	16.74
	54	56.10	56.89	20.53	112.99	30.00	1000	9.47	19.60	91.18	36.02	4000.00	16.42
2467	53	38.99	31.92	18.51	70.91	30.00	1000	11.49	17.43	55.37	36.02	4000.00	18.59
	54	39.72	32.96	18.61	72.68	30.00	1000	11.39	17.55	56.88	36.02	4000.00	18.47
2472	53	35.48	32.58	18.33	68.07	30.00	1000	11.67	17.33	54.10	36.02	4000.00	18.69
	54	38.28	36.22	18.72	74.51	30.00	1000	11.28	17.74	59.50	36.02	4000.00	18.28

Sample Calculation:

Result = Ant 0 Result + Ant 2 Result

e.i.r.p. Result = Ant 0 Result (e.i.r.p) + Ant 2 Result (e.i.r.p)

Ant 0 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p)	
					[dBm]	[mW]		[dBm]	[mW]
2412	53	6.21	1.63	9.98	17.82	60.53	-2.51	15.31	33.96
	54	6.13	1.63	9.98	17.74	59.43	-2.51	15.23	33.34
2437	53	6.20	1.63	9.98	17.81	60.39	-2.51	15.30	33.88
	54	6.34	1.63	9.98	17.95	62.37	-2.51	15.44	34.99
2462	53	5.70	1.64	9.98	17.32	53.95	-2.51	14.81	30.27
	54	5.87	1.64	9.98	17.49	56.10	-2.51	14.98	31.48
2467	53	4.29	1.64	9.98	15.91	38.99	-2.51	13.40	21.88
	54	4.37	1.64	9.98	15.99	39.72	-2.51	13.48	22.28
2472	53	3.88	1.64	9.98	15.50	35.48	-2.51	12.99	19.91
	54	4.21	1.64	9.98	15.83	38.28	-2.51	13.32	21.48

Ant 2 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p)	
					[dBm]	[mW]		[dBm]	[mW]
2412	53	5.40	1.62	9.94	16.96	49.66	0.21	17.17	52.12
	54	5.59	1.62	9.94	17.15	51.88	0.21	17.36	54.45
2437	53	5.41	1.63	9.94	16.98	49.89	0.21	17.19	52.36
	54	5.28	1.63	9.94	16.85	48.42	0.21	17.06	50.82
2462	53	5.58	1.63	9.94	17.15	51.88	0.21	17.36	54.45
	54	5.98	1.63	9.94	17.55	56.89	0.21	17.76	59.70
2467	53	3.47	1.63	9.94	15.04	31.92	0.21	15.25	33.50
	54	3.61	1.63	9.94	15.18	32.96	0.21	15.39	34.59
2472	53	3.56	1.63	9.94	15.13	32.58	0.21	15.34	34.20
	54	4.02	1.63	9.94	15.59	36.22	0.21	15.80	38.02

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 10, 2024
Temperature / Humidity 24 deg. C / 31 % RH
Engineer Kazuya Noda
Mode Tx

11ax-20 (OFDMA)(SDM) 242-tone RU

Ant 0 + Ant 2				Conducted Power					e.i.r.p.				
Freq. [MHz]	RU Index	Ant 0 Result [mW]	Ant 2 Result [mW]	Result		Limit		Margin	Result		Limit		Margin
				[dBm]	[mW]	[dBm]	[mW]		[dBm]	[mW]	[dBm]	[mW]	
2412	61	60.95	51.88	20.52	112.83	30.00	1000	9.48	19.48	88.65	36.02	4000.00	16.54
2437	61	59.57	54.95	20.59	114.52	30.00	1000	9.41	19.60	91.10	36.02	4000.00	16.43
2462	61	54.83	53.70	20.36	108.53	30.00	1000	9.64	19.40	87.12	36.02	4000.00	16.62
2467	61	34.51	29.58	18.07	64.09	30.00	1000	11.93	17.03	50.41	36.02	4000.00	19.00
2472	61	35.16	31.92	18.27	67.07	30.00	1000	11.73	17.26	53.22	36.02	4000.00	18.76

Sample Calculation:

Result = Ant 0 Result + Ant 2 Result

e.i.r.p. Result = Ant 0 Result (e.i.r.p.) + Ant 2 Result (e.i.r.p.)

Ant 0 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	61	6.24	1.63	9.98	17.85	60.95	-2.51	15.34	34.20
2437	61	6.14	1.63	9.98	17.75	59.57	-2.51	15.24	33.42
2462	61	5.77	1.64	9.98	17.39	54.83	-2.51	14.88	30.76
2467	61	3.76	1.64	9.98	15.38	34.51	-2.51	12.87	19.36
2472	61	3.84	1.64	9.98	15.46	35.16	-2.51	12.95	19.72

Ant 2 (Peak)

Freq. [MHz]	RU Index	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Antenna Gain [dBi]	Result (e.i.r.p.)	
					[dBm]	[mW]		[dBm]	[mW]
2412	61	5.59	1.62	9.94	17.15	51.88	0.21	17.36	54.45
2437	61	5.83	1.63	9.94	17.40	54.95	0.21	17.61	57.68
2462	61	5.73	1.63	9.94	17.30	53.70	0.21	17.51	56.36
2467	61	3.14	1.63	9.94	14.71	29.58	0.21	14.92	31.05
2472	61	3.47	1.63	9.94	15.04	31.92	0.21	15.25	33.50

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

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

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 13, 2023 March 26, 2024
Temperature / Humidity 24 deg. C / 50 % RH 23 deg. C / 35 % RH
Engineer Shiro Kobayashi Kazuya Noda
Mode Tx Low power

11b

Maximum peak output power

Antenna: Ant 0

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	-0.05	1.64	9.98	11.57	14.35	30.00	1000	18.43	0.21	11.78	15.07	36.02	4000	24.24
2437	0.02	1.65	9.98	11.65	14.62	30.00	1000	18.35	0.21	11.86	15.35	36.02	4000	24.16
2462	-0.19	1.65	9.98	11.44	13.93	30.00	1000	18.56	0.21	11.65	14.62	36.02	4000	24.37

11g

Maximum peak output power

Antenna: Ant 0

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	7.83	1.64	9.98	19.45	88.10	30.00	1000	10.55	0.21	19.66	92.47	36.02	4000	16.36
2437	7.93	1.65	9.98	19.56	90.36	30.00	1000	10.44	0.21	19.77	94.84	36.02	4000	16.25
2462	7.76	1.65	9.98	19.39	86.90	30.00	1000	10.61	0.21	19.60	91.20	36.02	4000	16.42

11n-20 (SISO)

Maximum peak output power

Antenna: Ant 0

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247						
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin	
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]		[dBi]	[dBm]	[mW]	[dBm]		[mW]
2412	8.29	1.64	9.98	19.91	97.95	30.00	1000	10.09	0.21	20.12	102.80	36.02	4000	15.90	
2437	8.03	1.65	9.98	19.66	92.47	30.00	1000	10.34	0.21	19.87	97.05	36.02	4000	16.15	
2462	7.86	1.65	9.98	19.49	88.92	30.00	1000	10.51	0.21	19.70	93.33	36.02	4000	16.32	

11ax-20(OFDM) (SISO)

Maximum peak output power

Antenna: Ant 0

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	9.48	1.64	9.94	21.06	127.64	30.00	1000	8.94	0.21	21.27	133.97	36.02	4000	14.75
2437	9.31	1.64	9.94	20.89	122.74	30.00	1000	9.11	0.21	21.10	128.82	36.02	4000	14.92
2462	8.84	1.65	9.94	20.43	110.41	30.00	1000	9.57	0.21	20.64	115.88	36.02	4000	15.38

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*Antenna gain was applied with the maximum gain of Ant 0 & Ant 2.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 3, 2024
Temperature / Humidity 25 deg. C / 32 % RH
Engineer Kazuya Noda
Mode Tx Low power

11ax-20(OFDMA)(SISO) RU Type: 26-tone RU

Maximum peak output power

Maximum peak output power:

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	0	8.71	1.64	9.94	20.29	106.91	30.00	1000	9.71	0.21	20.50	112.20	36.02	4000	15.52
	4	8.45	1.64	9.94	20.03	100.69	30.00	1000	9.97	0.21	20.24	105.68	36.02	4001	15.78
	8	8.84	1.64	9.94	20.42	110.15	30.00	1000	9.58	0.21	20.63	115.61	36.02	4002	15.39
2437	0	8.45	1.64	9.94	20.03	100.69	30.00	1000	9.97	0.21	20.24	105.68	36.02	4003	15.78
	4	8.75	1.64	9.94	20.33	107.89	30.00	1000	9.67	0.21	20.54	113.24	36.02	4004	15.48
	8	9.01	1.64	9.94	20.59	114.55	30.00	1000	9.41	0.21	20.80	120.23	36.03	4005	15.23
2462	0	8.13	1.65	9.94	19.72	93.76	30.00	1000	10.28	0.21	19.93	98.40	36.03	4006	16.10
	4	8.57	1.65	9.94	20.16	103.75	30.00	1000	9.84	0.21	20.37	108.89	36.03	4007	15.66
	8	8.53	1.65	9.94	20.12	102.80	30.00	1000	9.88	0.21	20.33	107.89	36.03	4008	15.70

11ax-20(OFDMA)(SISO), RU Type: 52-tone RU

Maximum peak output power

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	37	8.54	1.64	9.94	20.12	102.80	30.00	1000	9.88	0.21	20.33	107.89	36.02	4000	15.69
	38	8.97	1.64	9.94	20.55	113.50	30.00	1000	9.45	0.21	20.76	119.12	36.02	4001	15.26
	40	9.21	1.64	9.94	20.79	119.95	30.00	1000	9.21	0.21	21.00	125.89	36.02	4002	15.02
2437	37	8.53	1.64	9.94	20.11	102.57	30.00	1000	9.89	0.21	20.32	107.65	36.02	4003	15.70
	38	7.90	1.64	9.94	19.48	88.72	30.00	1000	10.52	0.21	19.69	93.11	36.02	4004	16.33
	40	8.65	1.64	9.94	20.23	105.44	30.00	1000	9.77	0.21	20.44	110.66	36.03	4005	15.59
2462	37	7.96	1.65	9.94	19.55	90.16	30.00	1000	10.45	0.21	19.76	94.62	36.03	4006	16.27
	38	8.18	1.65	9.94	19.77	94.84	30.00	1000	10.23	0.21	19.98	99.54	36.03	4007	16.05
	40	8.41	1.65	9.94	20.00	100.00	30.00	1000	10.00	0.21	20.21	104.95	36.03	4008	15.82

11ax-20(OFDMA)(SISO), RU Type: 106-tone RU

Maximum peak output power

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	53	9.04	1.64	9.94	20.62	115.35	30.00	1000	9.38	0.21	20.83	121.06	36.02	4000	15.19
	54	9.51	1.64	9.94	21.09	128.53	30.00	1000	8.91	0.21	21.30	134.90	36.02	4001	14.72
2437	53	9.12	1.64	9.94	20.70	117.49	30.00	1000	9.30	0.21	20.91	123.31	36.02	4002	15.11
	54	9.47	1.64	9.94	21.05	127.35	30.00	1000	8.95	0.21	21.26	133.66	36.02	4003	14.76
2462	53	8.85	1.65	9.94	20.44	110.66	30.00	1000	9.56	0.21	20.65	116.14	36.02	4004	15.37
	54	8.95	1.65	9.94	20.54	113.24	30.00	1000	9.46	0.21	20.75	118.85	36.03	4005	15.28

11ax-20(OFDMA)(SISO), RU Type: 242-tone RU

Maximum peak output power

Antenna : Ant 0					Conducted Power					e.i.r.p. for RSS-247					
Freq.	RU Index	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]		[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	61	8.71	1.64	9.94	20.29	106.91	30.00	1000	9.71	0.21	20.50	112.20	36.02	4000	15.52
2437	61	8.57	1.64	9.94	20.15	103.51	30.00	1000	9.85	0.21	20.36	108.64	36.02	4000	15.66
2462	61	8.29	1.65	9.94	19.88	97.27	30.00	1000	10.12	0.21	20.09	102.09	36.02	4000	15.93

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*Antenna gain was applied with the maximum gain of Ant 0 & Ant 2.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 15, 2023
Temperature / Humidity 25 deg. C / 42 % RH
Engineer Yosuke Murakami
Mode Tx

BT LE 1M-PHY

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2402	-5.73	1.64	9.98	5.89	3.88	30.00	1000	24.11	-2.51	3.38	2.18	36.02	4000	32.64
2440	-6.04	1.65	9.98	5.59	3.62	30.00	1000	24.41	-2.51	3.08	2.03	36.02	4000	32.94
2480	-6.23	1.65	9.98	5.40	3.47	30.00	1000	24.60	-2.51	2.89	1.95	36.02	4000	33.13

BT LE coded S-8

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2402	-5.62	1.64	9.98	6.00	3.98	30.00	1000	24.00	-2.51	3.49	2.23	36.02	4000	32.53
2440	-6.00	1.65	9.98	5.63	3.66	30.00	1000	24.37	-2.51	3.12	2.05	36.02	4000	32.90
2480	-6.13	1.65	9.98	5.50	3.55	30.00	1000	24.50	-2.51	2.99	1.99	36.02	4000	33.03

BT LE coded S-2

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2402	-5.66	1.64	9.98	5.96	3.94	30.00	1000	24.04	-2.51	3.45	2.21	36.02	4000	32.57
2440	-5.95	1.65	9.98	5.68	3.70	30.00	1000	24.32	-2.51	3.17	2.07	36.02	4000	32.85
2480	-6.13	1.65	9.98	5.50	3.55	30.00	1000	24.50	-2.51	2.99	1.99	36.02	4000	33.03

BT LE 2M-PHY

Maximum peak output power

Antenna: Ant 0				Conducted Power					e.i.r.p. for RSS-247					
Freq.	Reading	Cable Loss	Atten. Loss	Result		Limit		Margin	Antenna Gain	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2402	-5.65	1.64	9.98	5.97	3.95	30.00	1000	24.03	-2.51	3.46	2.22	36.02	4000	32.56
2440	-5.92	1.65	9.98	5.71	3.72	30.00	1000	24.29	-2.51	3.20	2.09	36.02	4000	32.82
2480	-6.15	1.65	9.98	5.48	3.53	30.00	1000	24.52	-2.51	2.97	1.98	36.02	4000	33.05

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Worst Antenna Check

(Peak)

BT LE 1M-PHY 2402 MHz		
Ant	Reading	Remark
	[dBm]	
0	-5.73	*
1	-6.37	

BT LE 2M-PHY 2402 MHz		
Ant	Reading	Remark
	[dBm]	
0	-5.65	*
1	-6.55	

*: Worst Antenna

* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

* All comparisons were carried out on same frequency and measurement factors.

* This result value is not the final data and does not include cable attenuation or attenuation of attenuators.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 12, 2023 March 26, 2024
Temperature / Humidity 24 deg. C / 36 % RH 23 deg. C / 35 % RH
Engineer Shiro Kobayashi Kazuya Noda
Mode Tx

(Peak)

Antenna: Ant 0

11b 2437 MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
1	3.87	
2	4.05	
5.5	4.06	
11	4.08	*

*: Worst Rate

Antenna: Ant 2

11b 2437 MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
1	3.47	
2	3.77	
5.5	3.77	
11	3.79	

Antenna: Ant 0

11g 2437 MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
6	1.36	
9	0.28	
12	0.81	
18	0.48	
24	0.29	
36	0.56	
48	1.72	
54	1.83	*

*: Worst Rate

Antenna: Ant 2

11g 2437 MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
6	1.27	
9	0.44	
12	0.77	
18	0.43	
24	0.56	
36	1.01	
48	1.55	
54	1.66	

Antenna: Ant 0

11n-20 (SISO) 2437 MHz

MCS	Reading	Remark
	[dBm]	
0	1.03	
1	0.64	
2	0.26	
3	0.26	
4	0.86	
5	1.45	
6	1.60	
7	1.84	*

*: Worst Rate

Antenna: Ant 2

11n-20 (SISO) 2437 MHz

MCS	Reading	Remark
	[dBm]	
0	0.80	
1	0.70	
2	0.67	
3	0.16	
4	0.84	
5	1.29	
6	1.56	
7	1.75	

Antenna: Ant 0

11ax-20 (SISO) 2437 MHz

MCS	Reading	Remark
	[dBm]	
0	1.84	
1	1.60	
2	1.24	
3	1.85	
4	1.23	
5	2.73	
6	1.99	
7	2.39	
8	2.55	
9	3.32	*
10	3.18	
11	2.48	

*: Worst Rate

Antenna: Ant 2

11ax-20 (SISO) 2437 MHz

MCS	Reading	Remark
	[dBm]	
0	1.33	
1	0.93	
2	1.07	
3	1.14	
4	1.10	
5	1.82	
6	2.31	
7	2.06	
8	2.02	
9	2.75	
10	2.28	
11	2.01	

* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

* All comparisons were carried out on same frequency and measurement factors.

* This result value is not the final data and does not include cable attenuation or attenuation of attenuators.

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 12, 2023 March 26, 2024
Temperature / Humidity 24 deg. C / 36 % RH 23 deg. C / 35 % RH
Engineer Shiro Kobayashi Kazuya Noda
Mode Tx

(Peak)
11n-20 (SDM) 2437 MHz

MCS	Ant 0 Reading		Ant 2 Reading		Ant 0 + Ant 2 Reading		Remark
	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
8	5.11	3.24	6.05	4.03	8.62	7.27	*
9	4.55	2.85	5.21	3.32	7.90	6.17	
10	4.60	2.88	5.08	3.22	7.86	6.11	
11	4.18	2.62	4.45	2.79	7.33	5.40	
12	4.75	2.99	4.66	2.92	7.72	5.91	
13	4.30	2.69	5.03	3.18	7.69	5.88	
14	4.68	2.94	4.74	2.98	7.72	5.92	
15	4.34	2.72	5.11	3.24	7.75	5.96	

*: Worst Rate

(Peak)
11ax-20 (SDM) 2437 MHz

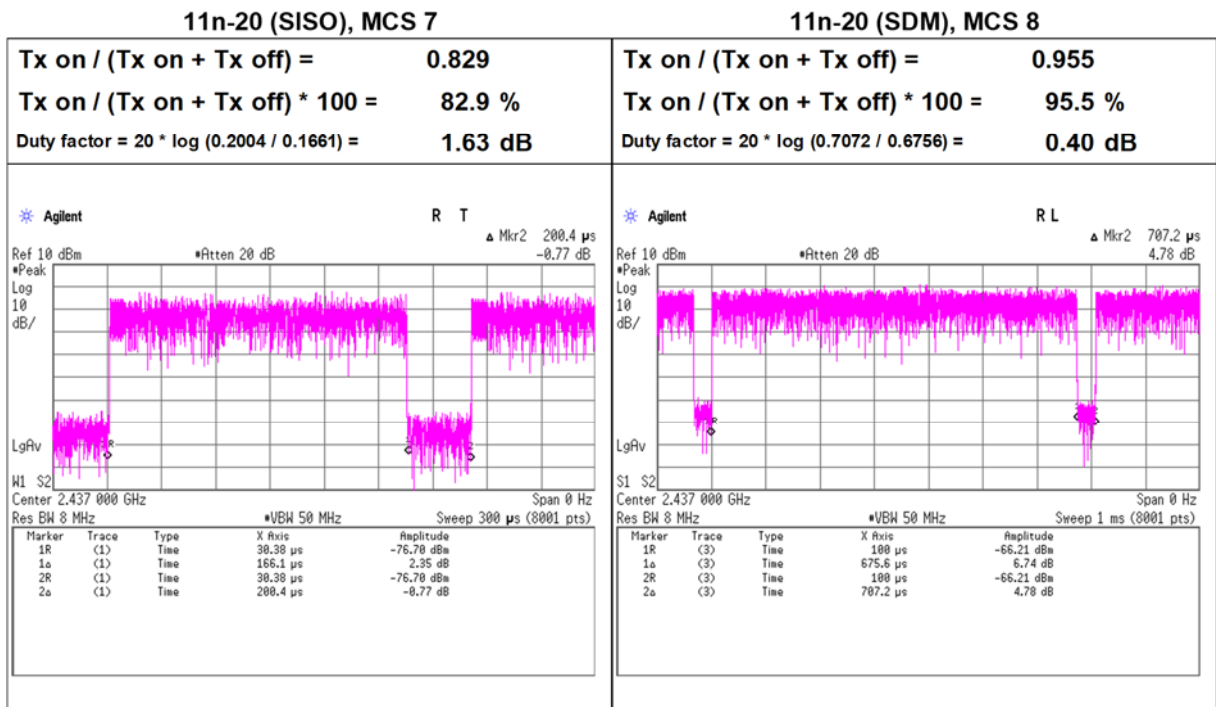
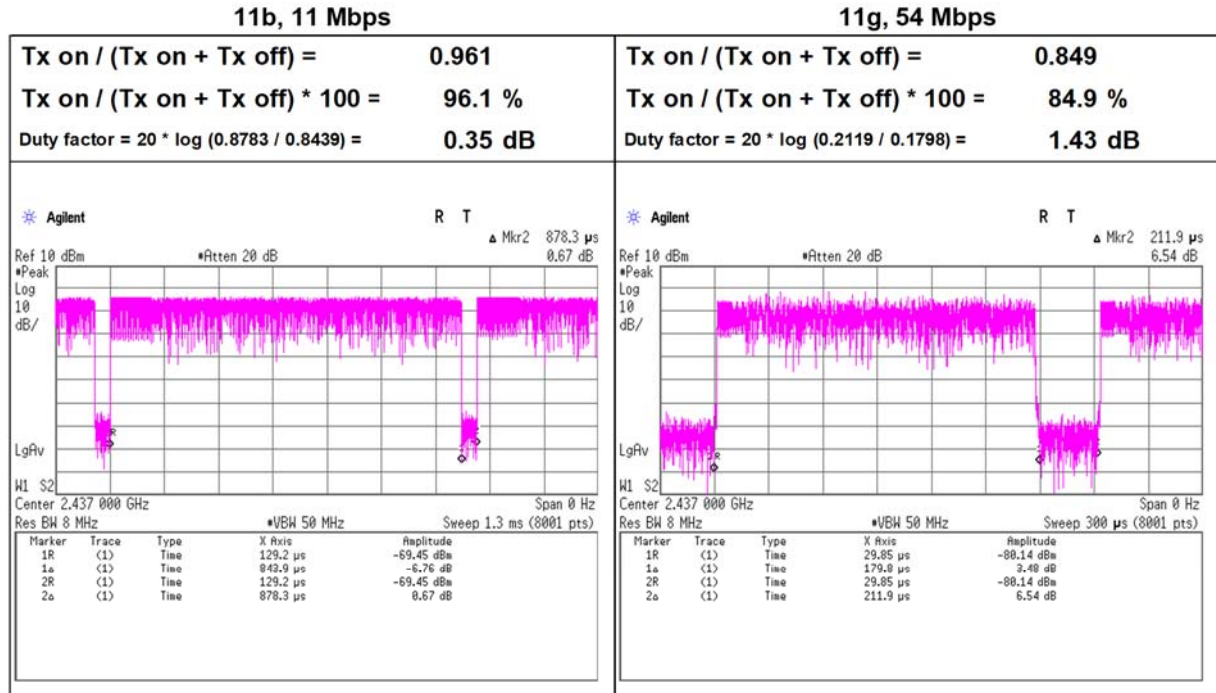
MCS	Ant 0 Reading		Ant 2 Reading		Ant 0 + Ant 2 Reading		Remark
	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
0	6.52	4.49	5.85	3.85	9.21	8.33	*
1	6.62	4.59	5.77	3.78	9.23	8.37	
2	5.93	3.92	6.13	4.10	9.04	8.02	
3	5.52	3.56	5.31	3.40	8.43	6.96	
4	6.09	4.06	5.85	3.85	8.98	7.91	
5	6.56	4.53	5.21	3.32	8.95	7.85	
6	5.34	3.42	5.32	3.40	8.34	6.82	
7	5.85	3.85	5.77	3.78	8.82	7.62	
8	5.13	3.26	4.84	3.05	8.00	6.31	
9	5.31	3.40	4.89	3.08	8.12	6.48	
10	5.94	3.93	5.42	3.48	8.70	7.41	
11	6.30	4.27	5.91	3.90	9.12	8.17	

*: Worst Rate

- * Since the burst rate is not different between the channels, the data has been obtained on the representative channel.
- * All comparisons were carried out on same frequency and measurement factors.
- * This result value is not the final data and does not include cable attenuation or attenuation of attenuators.

Burst rate confirmation

Test place Shonan EMC Lab. No.1 Measurement Room
Date September 27, 2023
Temperature / Humidity 24 deg. C / 50 % RH
Engineer Yusuke Tanikawara
Mode Tx, Ant 0

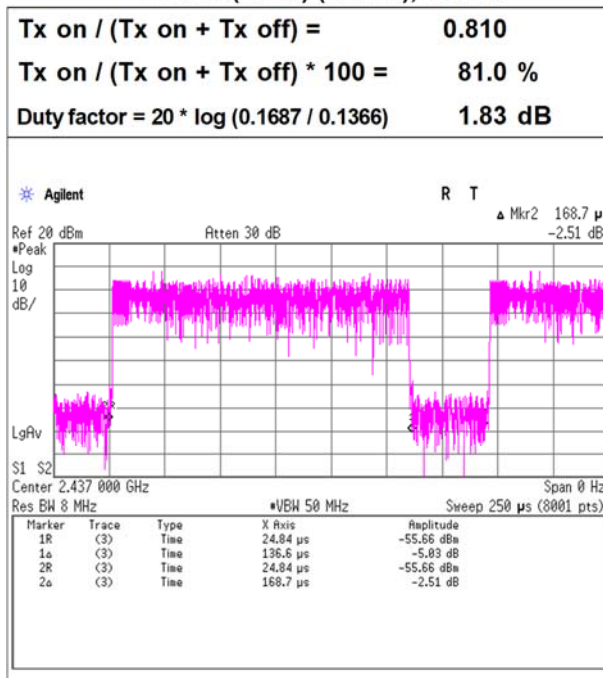


* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

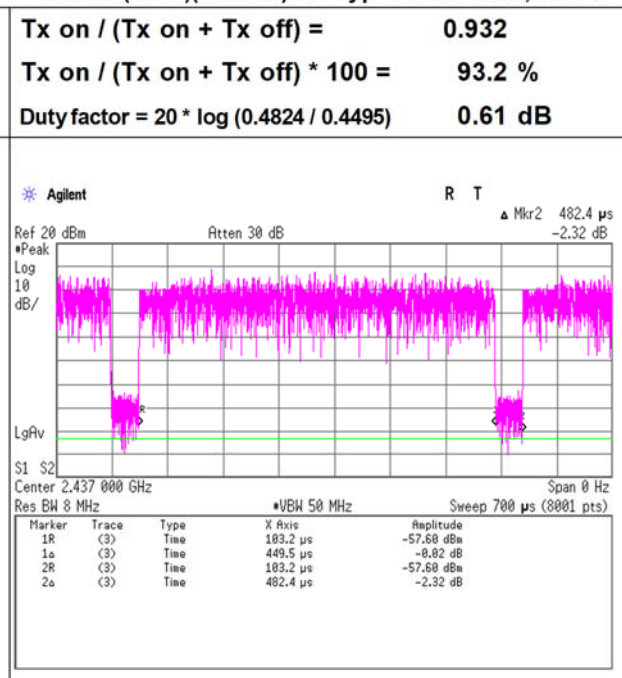
Burst rate confirmation

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 30, 2024
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Kazuya Noda
Mode Tx, Ant 0

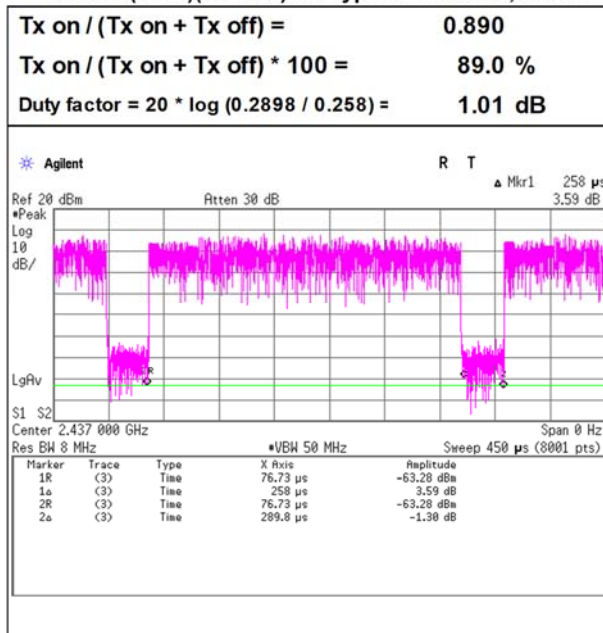
11ax20 (SISO) (OFDM), MCS 9



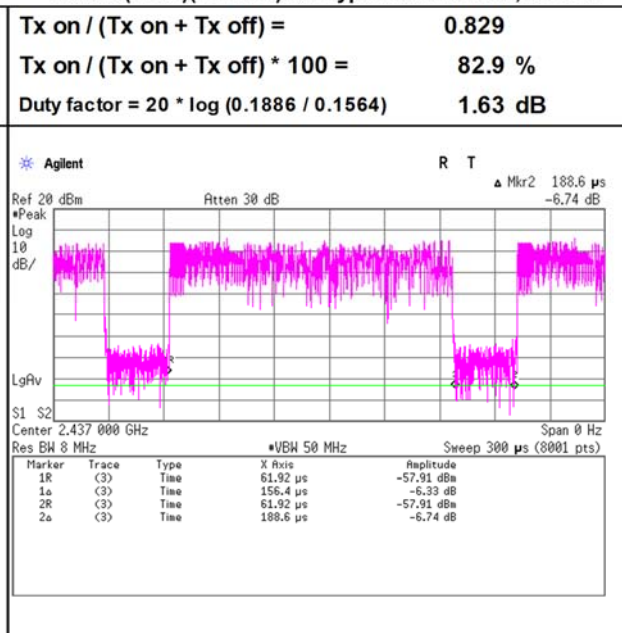
11ax-20(SISO)(OFDMA) RU Type: 26-tone RU, MCS 9



11ax-20(SISO)(OFDMA) RU Type: 52-tone RU, MCS 9



11ax-20(SISO)(OFDMA) RU Type: 106-tone RU, MCS 9



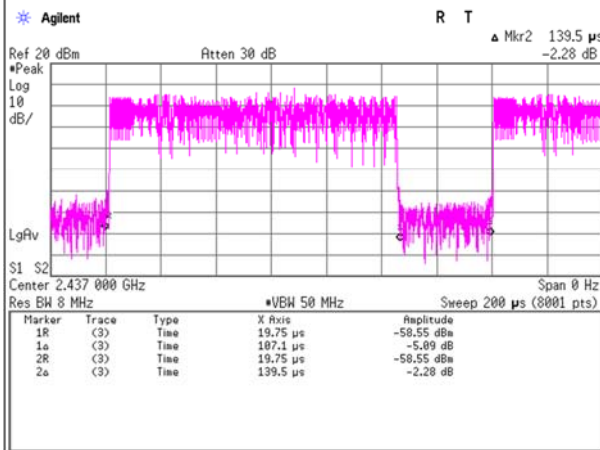
* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

Burst rate confirmation

Test place Shonan EMC Lab. No.1 Measurement Room
Date April 30, 2024
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Kazuya Noda
Mode Tx, Ant 0

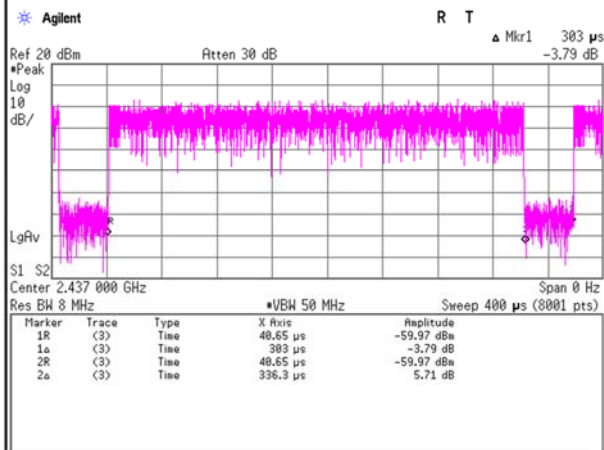
11ax-20(OFDMA)(SISO) RU Type: 242-tone RU, MCS 9

Tx on / (Tx on + Tx off) =	0.768
Tx on / (Tx on + Tx off) * 100 =	76.8 %
Duty factor = $20 * \log(0.1395 / 0.1071)$	2.30 dB



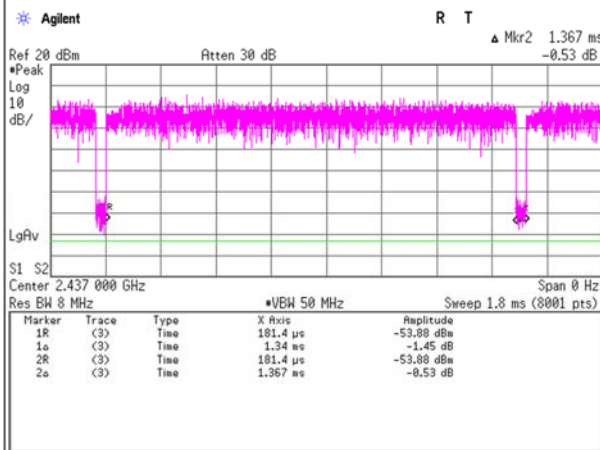
11ax-20 (OFDM)(SDM), MCS 1

Tx on / (Tx on + Tx off) =	0.901
Tx on / (Tx on + Tx off) * 100 =	90.1 %
Duty factor = $20 * \log(0.3363 / 0.303)$	0.91 dB



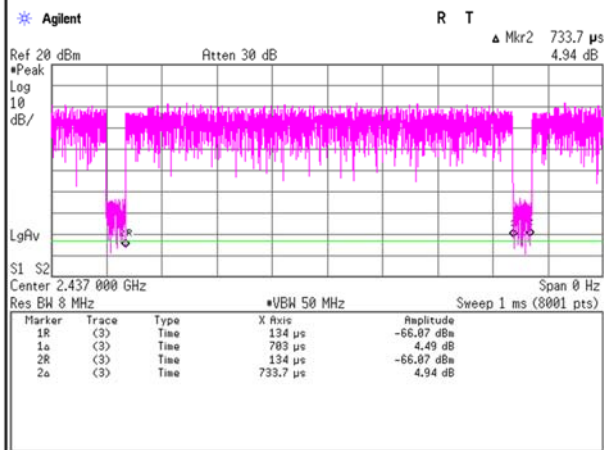
11ax-20(OFDMA)(SDM) RU Type: 26-tone RU, MCS 1

Tx on / (Tx on + Tx off) =	0.980
Tx on / (Tx on + Tx off) * 100 =	98.0 %
Duty factor = $20 * \log(1.367 / 1.34)$	0.17 dB



11ax-20(OFDMA)(SDM) RU Type: 52-tone RU, MCS 1

Tx on / (Tx on + Tx off) =	0.958
Tx on / (Tx on + Tx off) * 100 =	95.8 %
Duty factor = $20 * \log(0.7337 / 0.703)$	0.37 dB



* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.