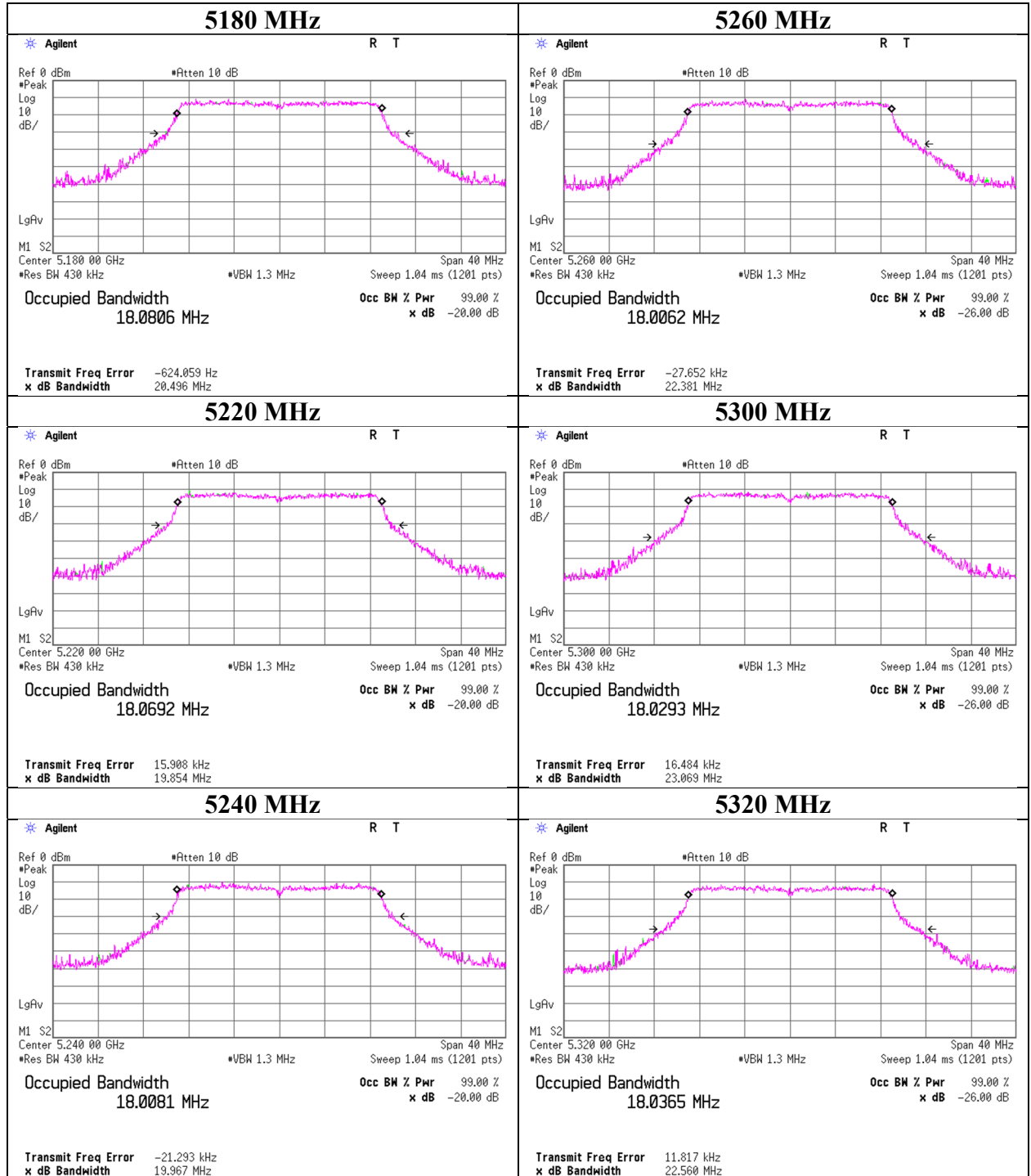


99 % Occupied Bandwidth

11ac-20



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Ise EMC Lab.

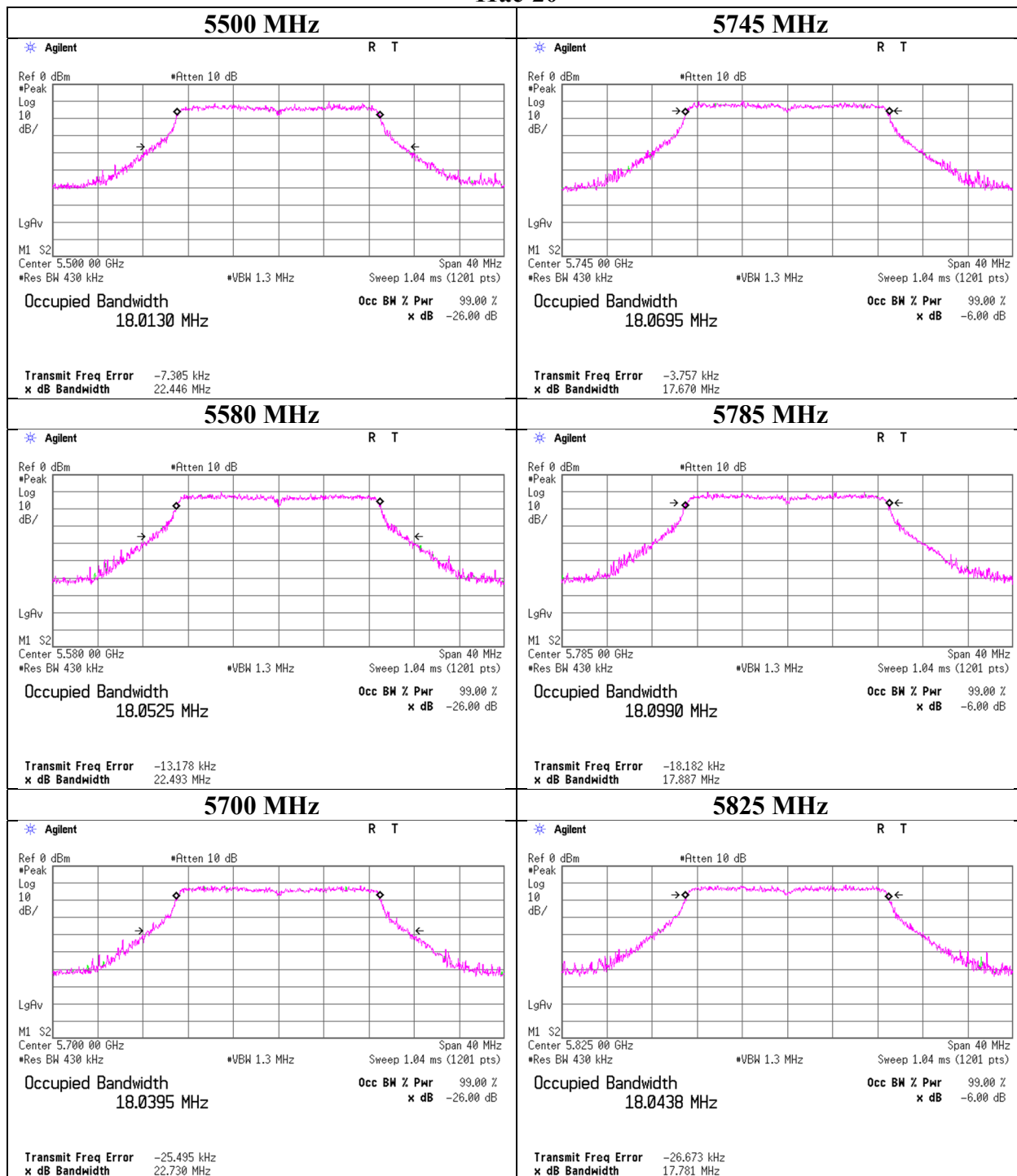
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Facsimile : +81 596 24 8124

99 % Occupied Bandwidth

11ac-20



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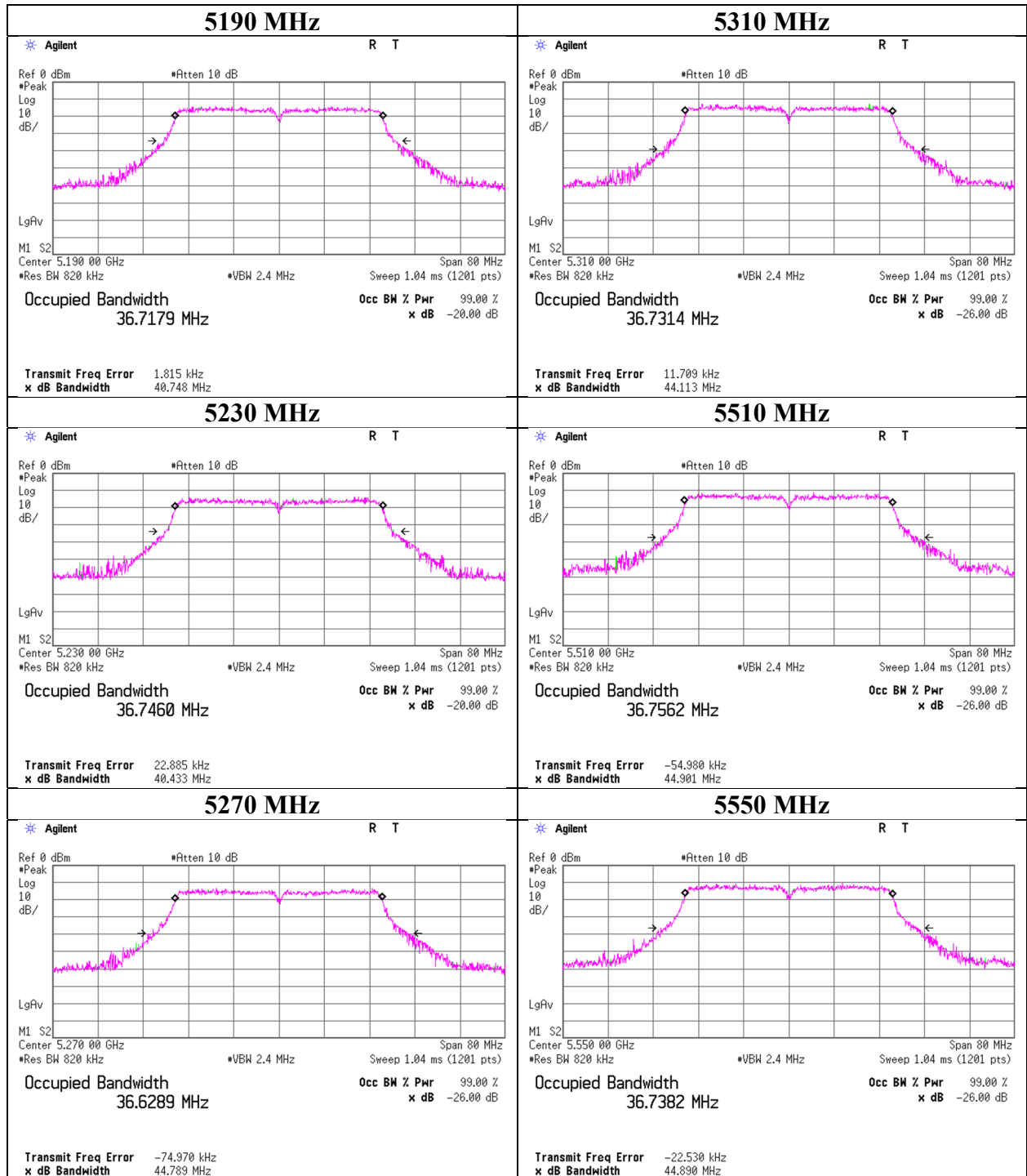
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99 % Occupied Bandwidth

11n-40



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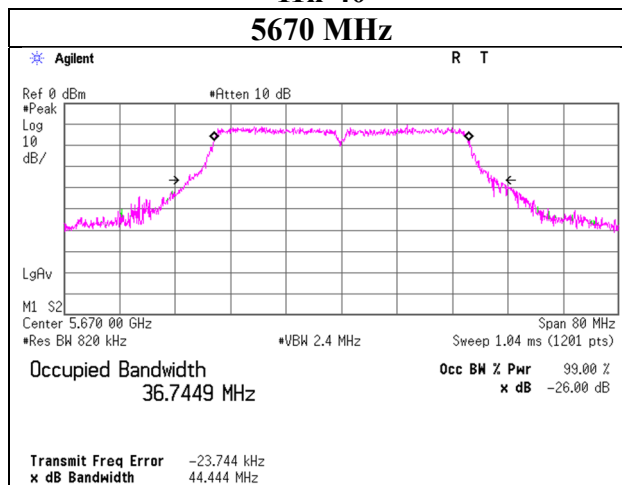
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

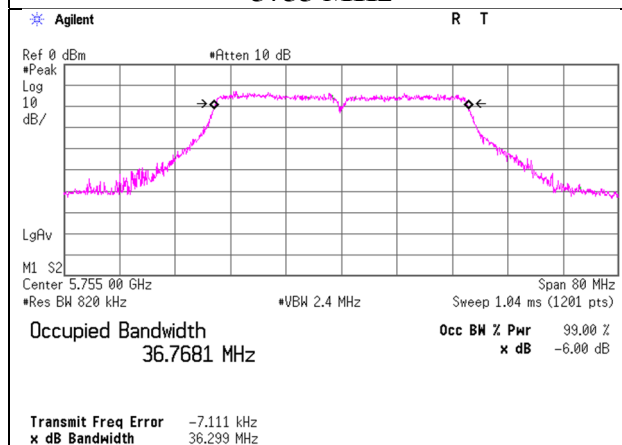
99 % Occupied Bandwidth

11n-40

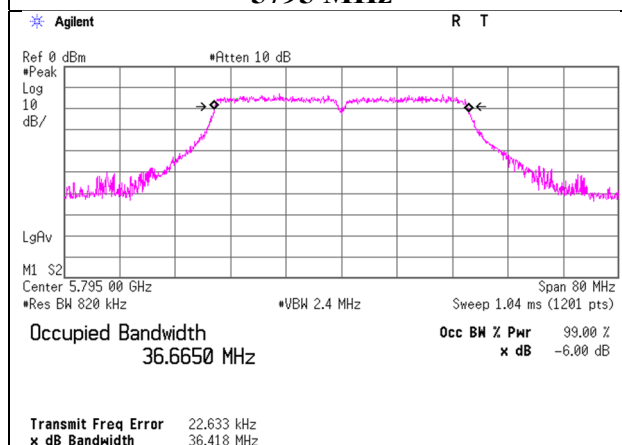
5670 MHz



5755 MHz



5795 MHz



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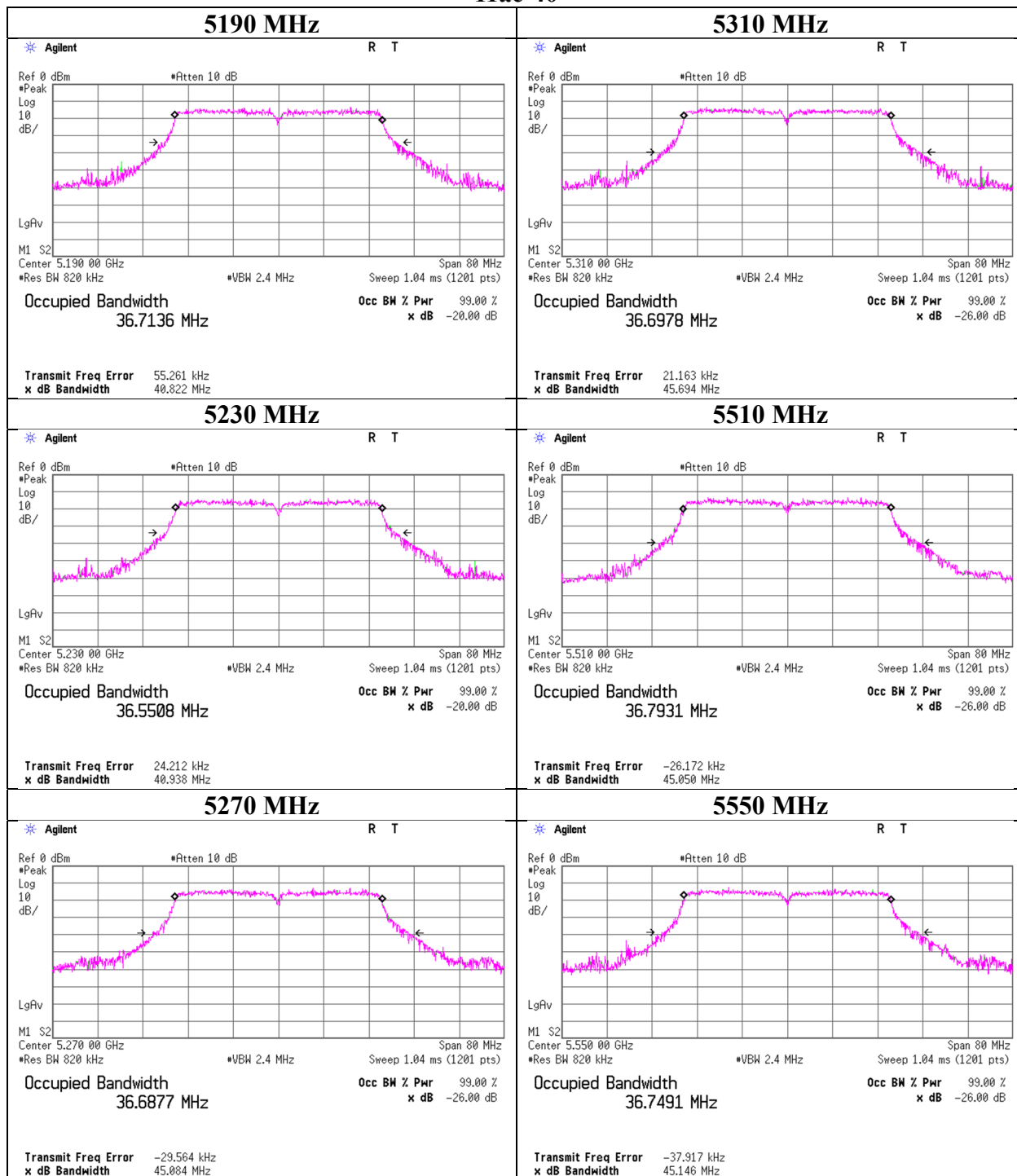
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99 % Occupied Bandwidth

11ac-40



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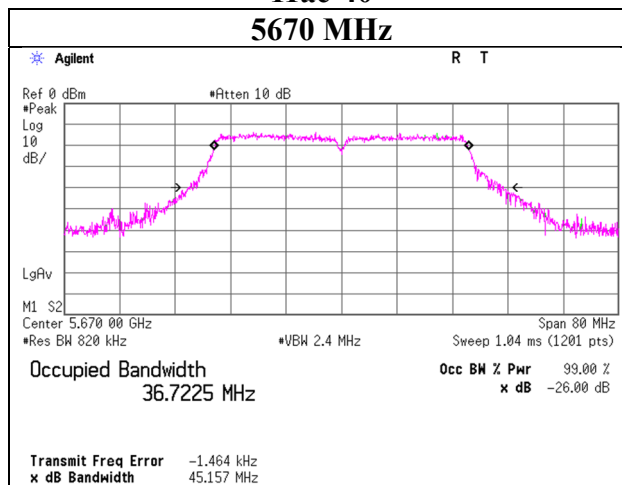
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

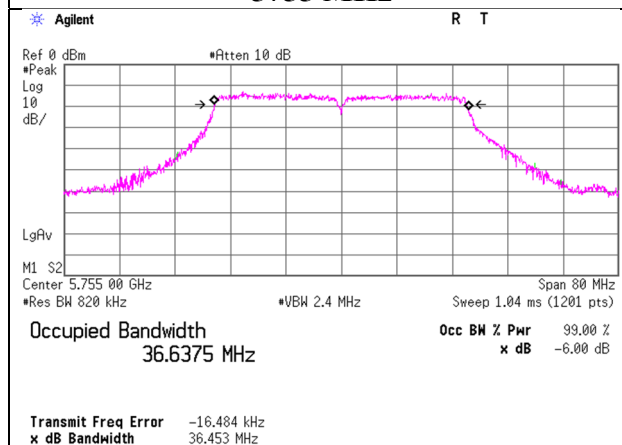
99 % Occupied Bandwidth

11ac-40

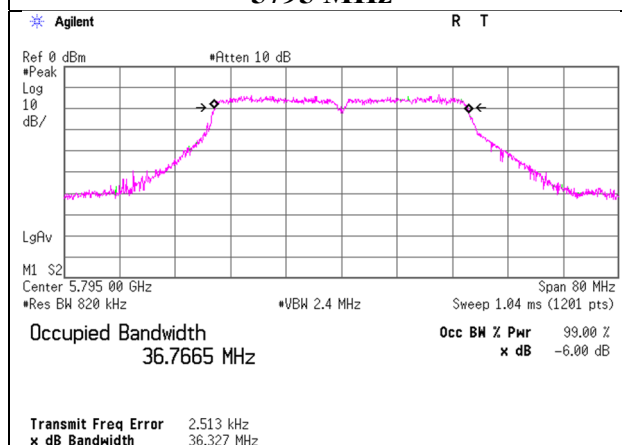
5670 MHz



5755 MHz



5795 MHz



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Ise EMC Lab.

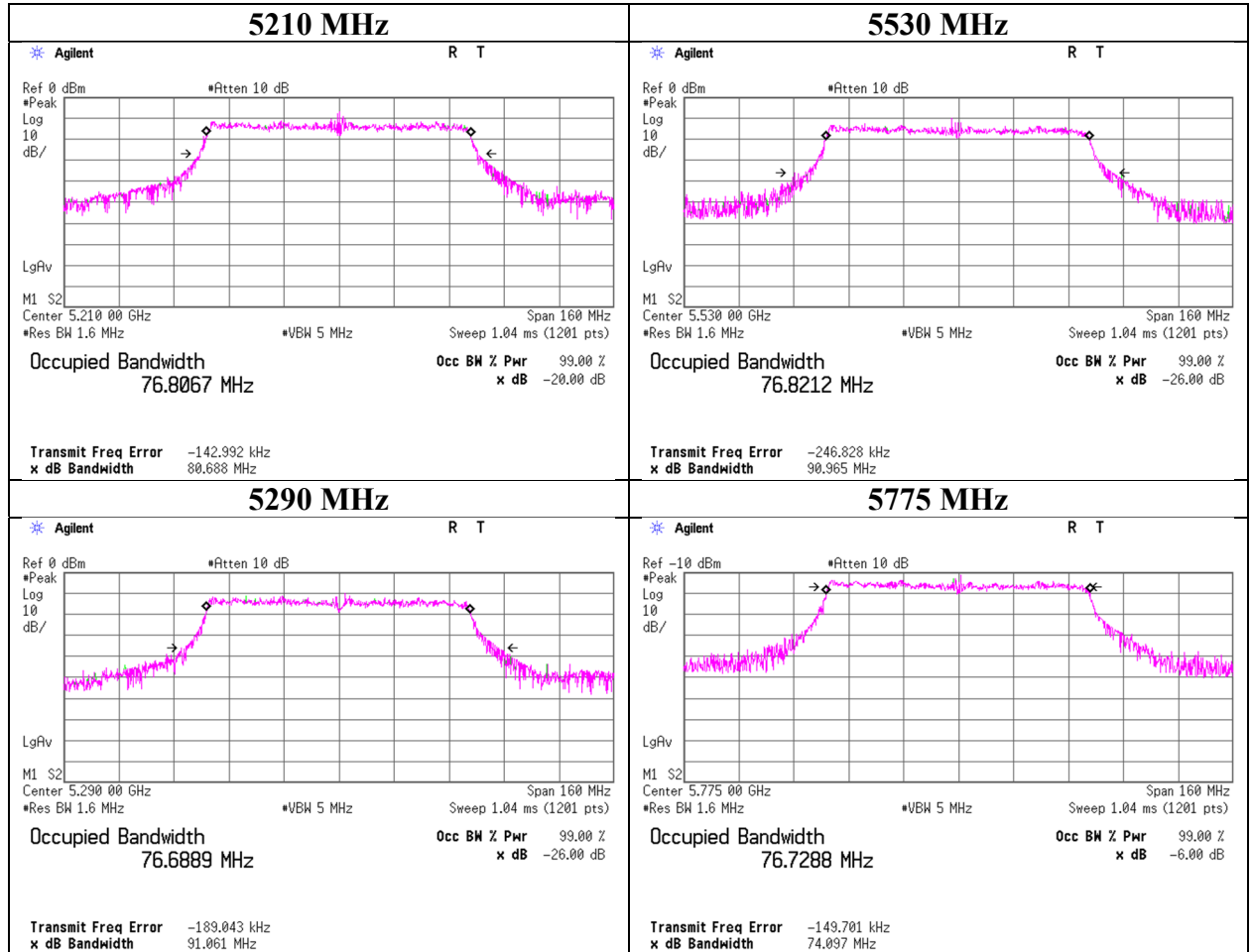
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99 % Occupied Bandwidth

11ac-80



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6 dB Bandwidth

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 16, 2021 January 19, 2022
Temperature / Humidity	24 deg. C / 29 % RH 24 deg. C / 40 % RH
Engineer	Nachi Konegawa Nachi Konegawa
Mode	Tx

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	16.468	> 0.500
5785	16.486	> 0.500
5825	16.467	> 0.500

11n-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.679	> 0.500
5785	17.722	> 0.500
5825	17.654	> 0.500

11ac-20

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	17.714	> 0.500
5785	17.723	> 0.500
5825	17.686	> 0.500

11n-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.425	> 0.500
5795	36.480	> 0.500

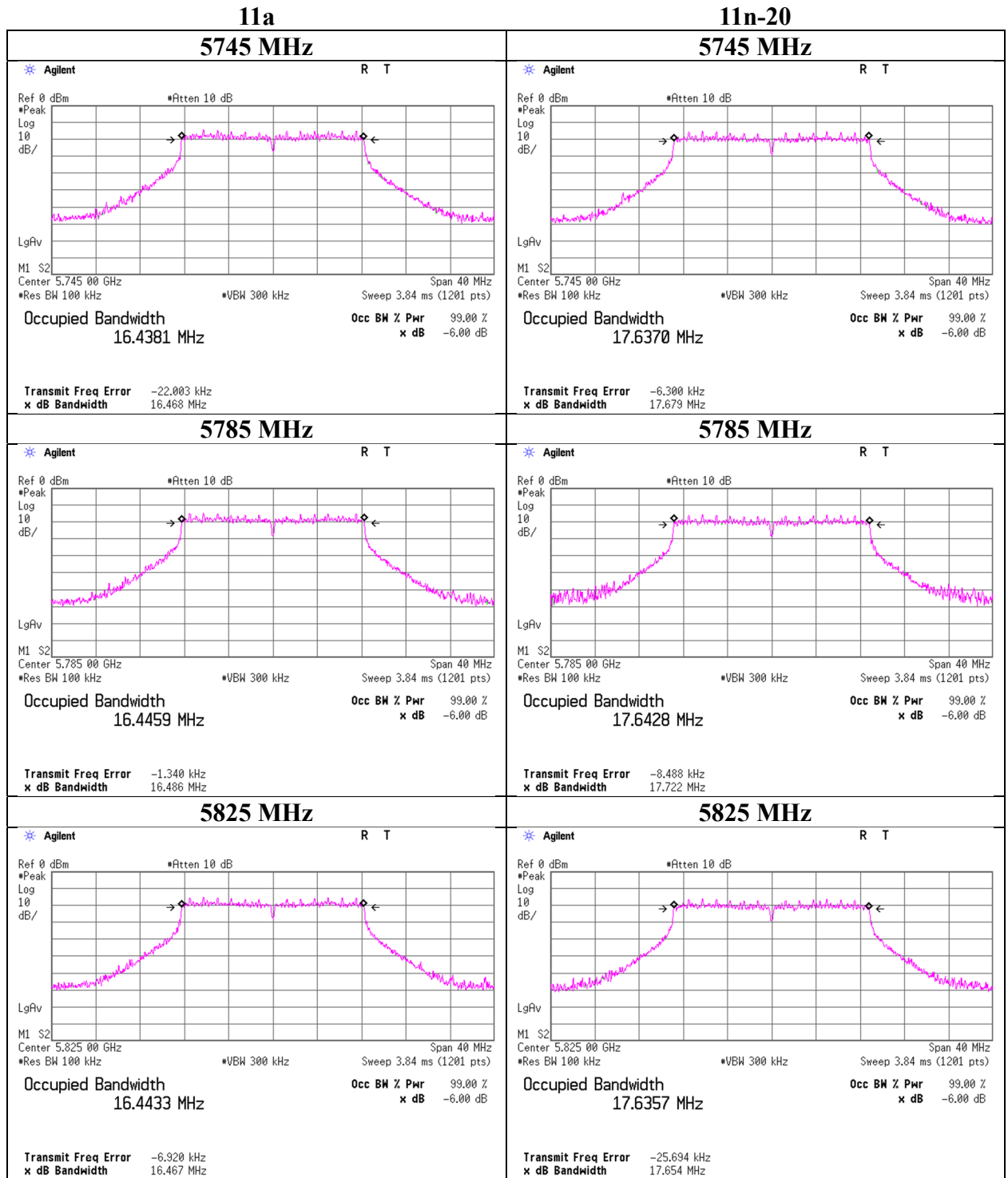
11ac-40

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.437	> 0.500
5795	36.369	> 0.500

11ac-80

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	76.112	> 0.500

6 dB Bandwidth



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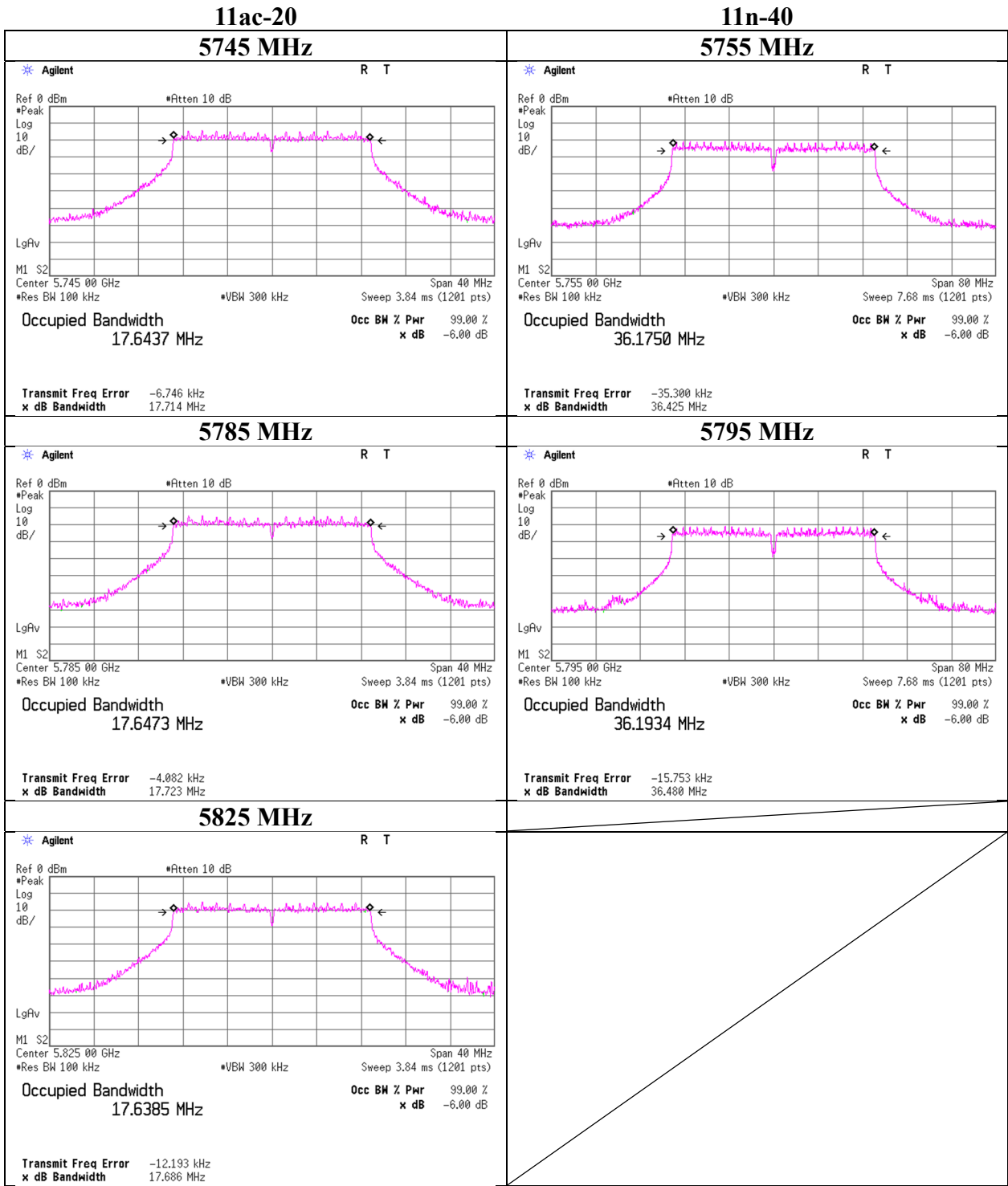
Ise EMC Lab.

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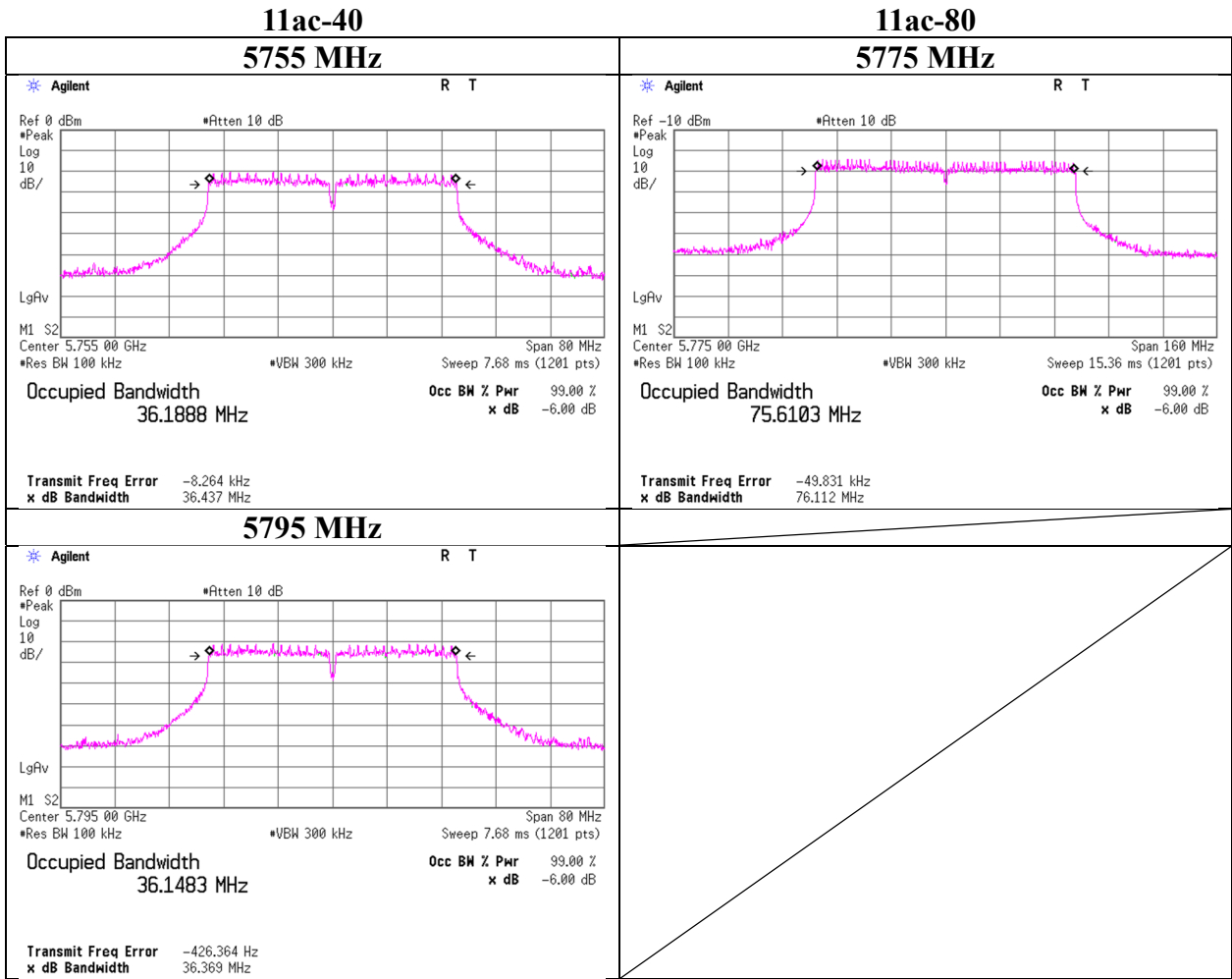
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Facsimile : +81 596 24 8124

6 dB Bandwidth



6 dB Bandwidth



Maximum Conducted Output Power

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 3, 2021
Temperature / Humidity	25 deg. C / 25 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx 11a

Applied limit: 15.407, mobile and portable client device

11a

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin		Result	Limit	Margin	
5180	-11.20	1.14	20.04	0.00	0.6	-	16.931	9.98	9.96	23.97	13.99	10.60	11.49	29.97	19.37
5220	-11.29	1.15	20.03	0.00	0.6	-	16.922	9.89	9.76	23.97	14.08	10.51	11.25	29.97	19.46
5240	-11.21	1.15	20.03	0.00	0.6	-	16.948	9.97	9.94	23.97	14.00	10.59	11.47	29.97	19.38
5260	-11.26	1.16	20.03	0.00	0.6	20.932	16.988	9.93	9.83	23.97	14.04	10.55	11.34	29.97	19.42
5300	-11.29	1.15	20.03	0.00	0.6	20.519	17.009	9.89	9.74	23.97	14.08	10.51	11.24	29.97	19.46
5320	-11.62	1.16	20.03	0.00	0.6	21.073	17.001	9.57	9.06	23.97	14.40	10.19	10.45	29.97	19.78
5500	-12.30	1.17	20.01	0.00	0.6	20.549	16.939	8.88	7.72	23.97	15.09	9.50	8.91	29.97	20.47
5580	-11.42	1.19	20.02	0.00	0.6	20.903	16.931	9.79	9.54	23.97	14.18	10.41	11.00	29.97	19.56
5700	-12.04	1.20	20.02	0.00	0.6	20.924	16.972	9.18	8.29	23.97	14.79	9.80	9.56	29.97	20.17
5745	-11.32	1.20	20.02	0.00	0.6	-	16.957	9.90	9.78	30.00	20.10	10.52	11.28	36.00	25.48
5785	-11.73	1.20	20.03	0.00	0.6	-	17.028	9.50	8.92	30.00	20.50	10.12	10.29	36.00	25.88
5825	-12.26	1.20	20.03	0.00	0.6	-	16.995	8.97	7.89	30.00	21.03	9.59	9.10	36.00	26.41

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

5180 MHz

Mode	Rate Mbps	Burst Power [dBm]	Remarks
11a	6	-11.22	
	9	-11.24	
	12	-11.36	
	18	-11.27	
	24	-11.37	
	36	-11.20	*
	48	-11.30	
	54	-11.29	

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

UL Japan, Inc.

Ise EMC Lab.

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Telephone : +81 596 24 8999

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Maximum Conducted Output Power

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 3, 2021
Temperature / Humidity	25 deg. C / 25 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx 11n-20

11n-20

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin		Result	Limit	Margin	
								[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-12.47	1.14	20.04	0.00	0.6	-	17.983	8.71	7.44	23.97	15.26	9.33	8.58	29.97	20.64
5220	-12.57	1.15	20.03	0.00	0.6	-	18.008	8.61	7.26	23.97	15.36	9.23	8.38	29.97	20.74
5240	-12.24	1.15	20.03	0.00	0.6	-	18.048	8.94	7.84	23.97	15.03	9.56	9.05	29.97	20.41
5260	-12.17	1.16	20.03	0.00	0.6	21.782	18.015	9.02	7.97	23.97	14.95	9.64	9.20	29.97	20.33
5300	-12.03	1.15	20.03	0.00	0.6	21.379	18.077	9.15	8.21	23.97	14.82	9.77	9.48	29.97	20.20
5320	-12.71	1.16	20.03	0.00	0.6	21.257	18.008	8.48	7.05	23.97	15.49	9.10	8.13	29.97	20.87
5500	-12.34	1.17	20.01	0.00	0.6	21.389	18.029	8.84	7.65	23.97	15.13	9.46	8.83	29.97	20.51
5580	-11.77	1.19	20.02	0.00	0.6	21.183	18.019	9.44	8.80	23.97	14.53	10.06	10.15	29.97	19.91
5700	-12.16	1.20	20.02	0.00	0.6	21.254	18.007	9.06	8.06	23.97	14.91	9.68	9.30	29.97	20.29
5745	-12.28	1.20	20.02	0.00	0.6	-	18.036	8.94	7.84	30.00	21.06	9.56	9.04	36.00	26.44
5785	-12.02	1.20	20.03	0.00	0.6	-	18.032	9.21	8.34	30.00	20.79	9.83	9.62	36.00	26.17
5825	-12.85	1.20	20.03	0.00	0.6	-	18.048	8.38	6.89	30.00	21.62	9.00	7.94	36.00	27.00

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

5180 MHz

Mode	Rate MCS	Reading [dBm] (Burst Power)	Remarks
11n-20	0	-12.70	
	1	-12.91	
	2	-12.61	
	3	-13.00	
	4	-13.00	
	5	-12.50	
	6	-12.47	*
	7	-12.91	

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Maximum Conducted Output Power

Report No.	14118411H	No.8	No.6
Test place	Ise EMC Lab.		
Measurement Room	No.8	December 16, 2021	March 15, 2022
Date	December 3, 2021	24 deg. C / 29 % RH	25 deg. C / 30 % RH
Temperature / Humidity	25 deg. C / 25 % RH	Nachi Konegawa	Nachi Konegawa
Engineer	Kiyoshiro Okazaki		
Mode	Tx 11ac-20		

11ac-20

Applied limit: 15.407, mobile and portable client device

Applied limit: 13.5077, mobile and portable client device															
Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin	Result	Limit	Margin		
5180	-12.24	1.14	20.04	0.00	0.6	-	18.081	8.94	7.84	23.97	15.03	9.56	9.05	29.97	20.41
5220	-12.57	1.15	20.03	0.00	0.6	-	18.069	8.61	7.26	23.97	15.36	9.23	8.38	29.97	20.74
5240	-12.23	1.15	20.03	0.00	0.6	-	18.008	8.95	7.86	23.97	15.02	9.57	9.07	29.97	20.40
5260	-12.50	1.16	20.03	0.00	0.6	21.293	18.006	8.69	7.39	23.97	15.28	9.31	8.52	29.97	20.66
5300	-12.30	1.15	20.03	0.00	0.6	21.370	18.029	8.88	7.72	23.97	15.09	9.50	8.90	29.97	20.47
5320	-12.79	1.16	20.03	0.00	0.6	21.543	18.037	8.40	6.92	23.97	15.57	9.02	7.98	29.97	20.95
5500	-12.38	1.17	20.01	0.00	0.6	21.334	18.013	8.80	7.58	23.97	15.17	9.42	8.74	29.97	20.55
5580	-11.82	1.19	20.02	0.00	0.6	21.160	18.053	9.39	8.70	23.97	14.58	10.01	10.03	29.97	19.96
5700	-12.34	1.20	20.02	0.00	0.6	21.315	18.040	8.88	7.73	23.97	15.09	9.50	8.92	29.97	20.47
5745	-11.74	1.20	20.02	0.00	0.6	-	18.070	9.48	8.88	30.00	20.52	10.10	10.24	36.00	25.90
5785	-11.74	1.20	20.03	0.00	0.6	-	18.099	9.49	8.90	30.00	20.51	10.11	10.26	36.00	25.89
5825	-12.44	1.20	20.03	0.00	0.6	-	18.044	8.79	7.57	30.00	21.21	9.41	8.73	36.00	26.59

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

5180 MHz

Mode	Rate MCS	Reading [dBm] (Burst Power)	Remarks
11ac-20	0	-12.68	
	1	-12.51	
	2	-12.65	
	3	-12.74	
	4	-12.31	
	5	-12.46	
	6	-12.24	*
	7	-12.77	
	8	-12.43	

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

UL Japan, Inc.

Ise EMC Lab.

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Maximum Conducted Output Power

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 3, 2021
Temperature / Humidity	25 deg. C / 25 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx 11n-40

Applied limit: 15.407, mobile and portable client device

11n-40

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted Power				e.i.p.			
								Result	Limit	Margin		Result	Limit	Margin	
5190	-15.08	1.15	20.04	0.00	0.6	-	36.718	6.11	4.08	23.97	17.86	6.73	4.71	29.97	23.24
5230	-15.49	1.16	20.03	0.00	0.6	-	36.746	5.70	3.72	23.97	18.27	6.32	4.29	29.97	23.65
5270	-14.79	1.15	20.03	0.00	0.6	43.097	36.629	6.39	4.36	23.97	17.58	7.01	5.03	29.97	22.96
5310	-14.77	1.15	20.03	0.00	0.6	42.478	36.731	6.41	4.38	23.97	17.56	7.03	5.05	29.97	22.94
5510	-14.81	1.13	20.01	0.00	0.6	42.510	36.756	6.33	4.29	23.97	17.64	6.95	4.95	29.97	23.02
5550	-14.48	1.17	20.02	0.00	0.6	42.794	36.738	6.71	4.69	23.97	17.26	7.33	5.40	29.97	22.64
5670	-14.81	1.17	20.02	0.00	0.6	43.021	36.745	6.38	4.35	23.97	17.59	7.00	5.02	29.97	22.97
5755	-14.84	1.23	20.02	0.00	0.6	-	36.768	6.41	4.37	30.00	23.59	7.03	5.04	36.00	28.97
5795	-14.81	1.20	20.03	0.00	0.6	-	36.665	6.42	4.39	30.00	23.58	7.04	5.06	36.00	28.96

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

5190 MHz

Mode	Rate MCS	Reading [dBm] Burst Power	Remarks
11n-40	0	-15.11	
	1	-15.31	
	2	-15.19	
	3	-15.13	
	4	-15.48	
	5	-15.08	*
	6	-15.09	
	7	-15.40	

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Maximum Conducted Output Power

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 3, 2021
Temperature / Humidity	25 deg. C / 25 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx 11ac-40

Applied limit: 15.407, mobile and portable client device

11ac-40								Applied limit: 15.407, mobile and portable client device							
Tested Frequency	Power Meter Reading	Cable Loss	Atten. Loss	Duty Factor	Antenna Gain	26 dB EBW (B for FCC)	99% OBW (B for IC)	Conducted Power				e.i.r.p.			
								Result	Limit	Margin	Result	Limit	Margin		
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-15.37	1.15	20.04	0.00	0.6	-	36.714	5.82	3.82	23.97	18.15	6.44	4.40	29.97	23.53
5230	-15.56	1.16	20.03	0.00	0.6	-	36.551	5.63	3.66	23.97	18.34	6.25	4.22	29.97	23.72
5270	-14.89	1.15	20.03	0.00	0.6	43.087	36.688	6.29	4.26	23.97	17.68	6.91	4.91	29.97	23.06
5310	-14.72	1.15	20.03	0.00	0.6	43.002	36.698	6.46	4.43	23.97	17.51	7.08	5.11	29.97	22.89
5510	-14.86	1.13	20.01	0.00	0.6	42.040	36.793	6.28	4.24	23.97	17.69	6.90	4.90	29.97	23.07
5550	-14.53	1.17	20.02	0.00	0.6	43.502	36.749	6.66	4.63	23.97	17.31	7.28	5.34	29.97	22.69
5670	-14.97	1.17	20.02	0.00	0.6	42.602	36.723	6.22	4.19	23.97	17.75	6.84	4.83	29.97	23.13
5755	-14.64	1.23	20.02	0.00	0.6	-	36.638	6.61	4.58	30.00	23.39	7.23	5.28	36.00	28.77
5795	-15.00	1.20	20.03	0.00	0.6	-	36.767	6.23	4.20	30.00	23.77	6.85	4.84	36.00	29.15

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

5190 MHz

Mode	Rate MCS	Reading [dBm] Burst Power	Remarks
11ac-40	0	-15.58	
	1	-15.41	
	2	-15.45	
	3	-15.46	
	4	-15.43	
	5	-15.68	
	6	-15.55	
	7	-15.70	
	8	-15.48	
	9	-15.37	*

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

UL Japan, Inc.

Ise EMC Lab.

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Maximum Conducted Output Power

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 3, 2021 December 16, 2021
Temperature / Humidity	25 deg. C / 25 % RH 24 deg. C / 29 % RH
Engineer	Kiyoshiro Okazaki Nachi Konegawa
Mode	Tx 11ac-80

11ac-80

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted Power				e.i.r.p.			
								Result	Limit	Margin		Result	Limit	Margin	
5210	-13.13	1.15	20.03	0.00	0.6	-	76.807	8.05	6.39	23.97	15.92	8.67	7.37	29.97	21.30
5290	-13.32	1.15	20.03	0.00	0.6	90.102	76.689	7.86	6.11	23.97	16.11	8.48	7.04	29.97	21.49
5530	-15.07	1.14	20.01	0.00	0.6	89.493	76.821	6.08	4.05	23.97	17.89	6.70	4.67	29.97	23.27
5775	-15.72	1.22	20.03	0.00	0.6	-	76.729	5.53	3.57	30.00	24.47	6.15	4.12	36.00	29.85

Sample Calculation:

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

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

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

5210 MHz

Mode	Rate MCS	Burst Power [dBm]	Remarks
11ac-80	0	-13.16	
	1	-13.28	
	2	-13.17	
	3	-13.42	
	4	-13.28	
	5	-13.22	
	6	-13.16	
	7	-13.13	*
	8	-13.35	
	9	-13.24	

* Worst rate

Sample Calculation:

Burst power = Reading + Duty factor

All comparison were carried out on same frequency and measurement factors.

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Average Output Power **(Reference data for SAR testing)**

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11a

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5180	-3.10	2.72	10.09	9.71	9.36	0.20	9.91	9.80
5220	-3.36	2.74	10.09	9.47	8.86	0.20	9.67	9.27
5240	-3.09	2.74	10.09	9.74	9.43	0.20	9.94	9.87
5260	-3.15	2.75	10.09	9.69	9.30	0.20	9.89	9.74
5300	-3.16	2.75	10.09	9.68	9.28	0.20	9.88	9.72
5320	-3.57	2.77	10.09	9.29	8.50	0.20	9.49	8.90
5500	-4.42	2.78	10.10	8.46	7.02	0.20	8.66	7.35
5580	-3.43	2.84	10.10	9.51	8.94	0.20	9.71	9.36
5700	-4.01	2.86	10.09	8.94	7.84	0.20	9.14	8.21
5745	-3.25	2.85	10.09	9.69	9.31	0.20	9.89	9.74
5785	-3.71	2.87	10.09	9.25	8.42	0.20	9.45	8.82
5825	-4.24	2.87	10.09	8.72	7.45	0.20	8.92	7.80

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power **(Reference data for SAR testing)**

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11n-20

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5180	-4.31	2.72	10.09	8.50	7.09	0.21	8.71	7.44
5220	-4.65	2.74	10.09	8.18	6.58	0.21	8.39	6.91
5240	-4.11	2.74	10.09	8.72	7.46	0.21	8.93	7.82
5260	-4.48	2.75	10.09	8.36	6.85	0.21	8.57	7.19
5300	-4.02	2.75	10.09	8.82	7.61	0.21	9.03	7.99
5320	-4.83	2.77	10.09	8.03	6.36	0.21	8.24	6.67
5500	-4.65	2.78	10.10	8.23	6.66	0.21	8.44	6.99
5580	-3.82	2.84	10.10	9.12	8.17	0.21	9.33	8.58
5700	-4.16	2.86	10.09	8.79	7.58	0.21	9.00	7.95
5745	-4.23	2.85	10.09	8.71	7.43	0.21	8.92	7.79
5785	-3.98	2.87	10.09	8.98	7.91	0.21	9.19	8.30
5825	-4.82	2.87	10.09	8.14	6.52	0.21	8.35	6.84

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power **(Reference data for SAR testing)**

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11ac-20

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5180	-4.11	2.72	10.09	8.70	7.42	0.21	8.91	7.79
5220	-4.65	2.74	10.09	8.18	6.58	0.21	8.39	6.91
5240	-4.20	2.74	10.09	8.63	7.30	0.21	8.84	7.66
5260	-4.37	2.75	10.09	8.47	7.03	0.21	8.68	7.37
5300	-4.20	2.75	10.09	8.64	7.30	0.21	8.85	7.67
5320	-4.70	2.77	10.09	8.16	6.55	0.21	8.37	6.87
5500	-4.74	2.78	10.10	8.14	6.52	0.21	8.35	6.84
5580	-3.78	2.84	10.10	9.16	8.25	0.21	9.37	8.66
5700	-4.33	2.86	10.09	8.62	7.29	0.21	8.83	7.65
5745	-3.68	2.85	10.09	9.26	8.43	0.21	9.47	8.85
5785	-3.73	2.87	10.09	9.23	8.38	0.21	9.44	8.80
5825	-4.56	2.87	10.09	8.40	6.92	0.21	8.61	7.26

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power **(Reference data for SAR testing)**

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11n-40

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5190	-7.23	2.73	10.09	5.59	3.62	0.43	6.02	4.00
5230	-7.67	2.75	10.09	5.17	3.29	0.43	5.60	3.63
5270	-7.24	2.75	10.09	5.60	3.63	0.43	6.03	4.01
5310	-6.97	2.75	10.09	5.87	3.87	0.43	6.30	4.27
5510	-7.12	2.77	10.10	5.75	3.76	0.43	6.18	4.15
5550	-6.70	2.82	10.10	6.22	4.19	0.43	6.65	4.62
5670	-7.08	2.85	10.09	5.86	3.85	0.43	6.29	4.25
5755	-7.04	2.90	10.09	5.95	3.93	0.43	6.38	4.34
5795	-7.30	2.87	10.09	5.66	3.68	0.43	6.09	4.06

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power **(Reference data for SAR testing)**

Report No.	14118411H
Test place	Ise EMC Lab. No.8 Measurement Room
Date	December 17, 2021
Temperature / Humidity	22deg. C / 35 % RH
Engineer	Nachi Konegawa
Mode	Tx 11ac-40

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5190	-7.45	2.73	10.09	5.37	3.44	0.43	5.80	3.80
5230	-7.69	2.75	10.09	5.15	3.27	0.43	5.58	3.61
5270	-7.18	2.75	10.09	5.66	3.68	0.43	6.09	4.07
5310	-6.91	2.75	10.09	5.93	3.92	0.43	6.36	4.33
5510	-7.12	2.77	10.10	5.75	3.76	0.43	6.18	4.15
5550	-6.82	2.82	10.10	6.10	4.07	0.43	6.53	4.49
5670	-7.17	2.85	10.09	5.77	3.77	0.43	6.20	4.16
5755	-6.85	2.90	10.09	6.14	4.11	0.43	6.57	4.53
5795	-7.28	2.87	10.09	5.68	3.70	0.43	6.11	4.08

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

Average Output Power
(Reference data for SAR testing)

Report No. 14118411H
Test place Ise EMC Lab. No.8 Measurement Room
Date December 17, 2021
Temperature / Humidity 22deg. C / 35 % RH
Engineer Nachi Konegawa
Mode Tx 11ac-80

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
5210	-5.62	2.73	10.09	7.20	5.25	0.84	8.04	6.37
5290	-5.99	2.75	10.09	6.85	4.84	0.84	7.69	5.87
5530	-7.66	2.78	10.10	5.22	3.32	0.84	6.06	4.03
5775	-8.30	2.89	10.09	4.68	2.94	0.84	5.52	3.56

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

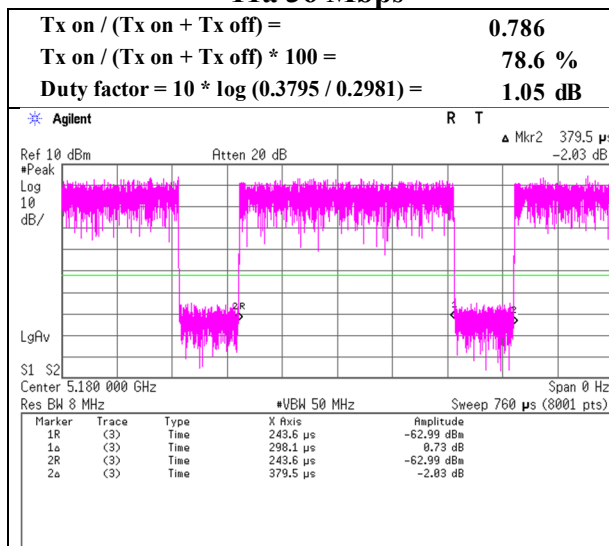
Result (Burst power average) = Time average + Duty factor

The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.

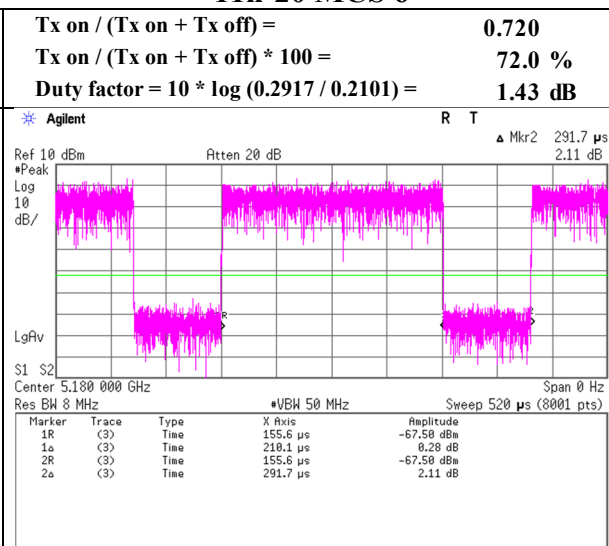
Burst rate confirmation

Report No.	14118411H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	December 3, 2021
Temperature / Humidity	22 deg. C / 31 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx

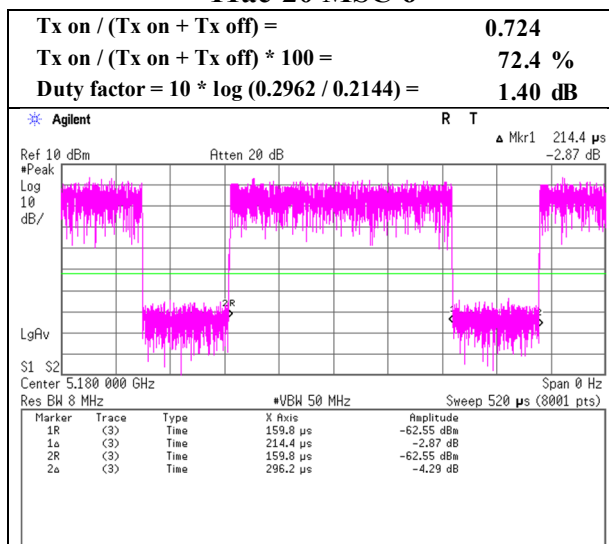
11a 36 Mbps



11n-20 MCS 6



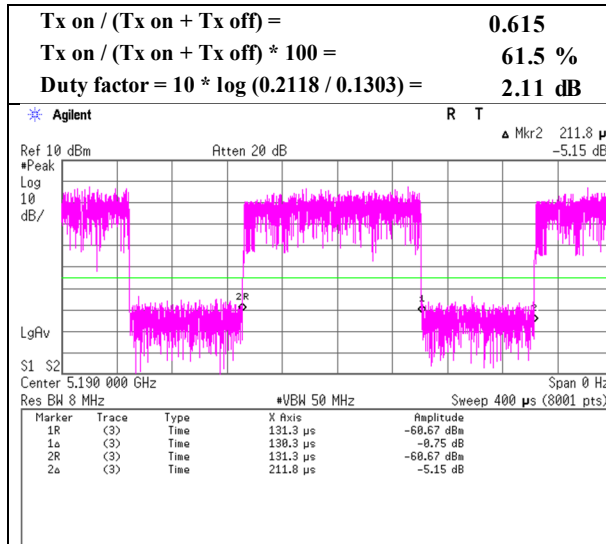
11ac-20 MSC 6



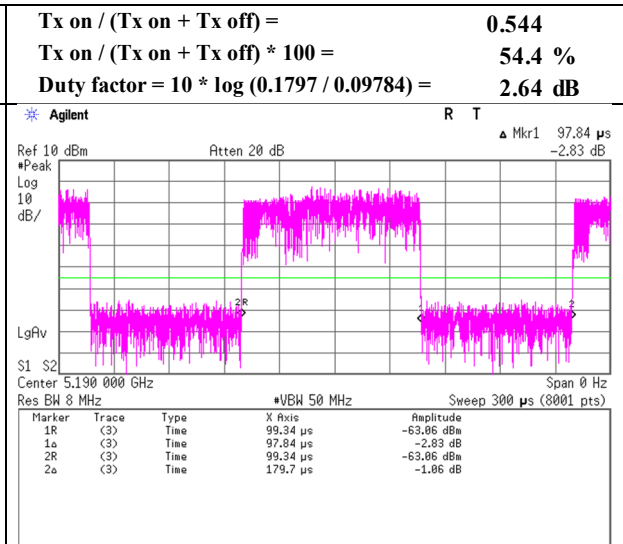
Burst rate confirmation

Report No.	14118411H
Test place	Ise EMC Lab. No.6 Measurement Room
Date	December 3, 2021
Temperature / Humidity	22 deg. C / 31 % RH
Engineer	Kiyoshiro Okazaki
Mode	Tx

11n-40 MSC 5



11ac-40 MCS 9



11ac-80 MSC 7

