

RADIO TEST REPORT

Test Report No. 16247275H-E-R2

Customer	Murata Manufacturing Co., Ltd.
Description of EUT	Communication module
Model Number of EUT	LBEE5XV2EA
FCC ID	VPYLB2EA003
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied
Issue Date	August 21, 2026
Remarks	Wireless LAN (6 GHz band) part Low-power indoor client

Representative Test EngineerTakafumi Noguchi
Engineer**Approved By**Takumi Shimada
Engineer

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 26.0

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16247275H-E	June 24, 2026	-
1	16247275H-E-R1	August 18, 2026	Section 2.1 -Modified test date March 13 to May 20, 2026 → March 13 to August 17, 2026 Section 4.1 -Modified mode. IEEE 802.11ax CDD 40 MHz BW (11ax-40) → IEEE 802.11ax CDD 80 MHz BW (11ax-80) -Modified rate setting. MCS 5 (1TX) → MCS 5 (1SS) *The Details of Operation Mode(s) -Modified explanatory note *3) *3) Spurious emissions testing was conducted only with full bandwidth RU allocation, since preliminary testing indicated that the full bandwidth RU allocation emitted higher spurious emissions than partial bandwidth RU allocation. → *3) Spurious emissions testing for partial-bandwidth RU allocation was conducted only at the band edge, since preliminary testing indicated that the full bandwidth RU allocation emitted higher spurious emissions than partial bandwidth RU allocation. Appendix 1 Maximum Conducted Output Power (Reference data) -Added test data for ANT 0 of IEEE 802.11a. -Remove ANT 1 data. Maximum Power Spectral Density -Modified the antenna gain and relevant values for IEEE 802.11a data. 2.50 → 2.00 Appendix 2 -Added test equipment of LIMS ID: 141334 for Antenna Terminal Conducted test
2	16247275H-E-R2	August 21, 2026	Appendix 1 Maximum Power Spectral Density -Replaced plot data for IEEE 802.11a.

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	IEC	International Electrotechnical Commission
AC	Alternating Current	IEEE	Institute of Electrical and Electronics Engineers
AFH	Adaptive Frequency Hopping	IF	Intermediate Frequency
AM	Amplitude Modulation	ILAC	International Laboratory Accreditation Conference
Amp, AMP	Amplifier	ISED	Innovation, Science and Economic Development Canada
ANSI	American National Standards Institute	ISO	International Organization for Standardization
Ant, ANT	Antenna	JAB	Japan Accreditation Board
AP	Access Point	LAN	Local Area Network
ASK	Amplitude Shift Keying	LIMS	Laboratory Information Management System
Atten., ATT	Attenuator	MCS	Modulation and Coding Scheme
AV	Average	MRA	Mutual Recognition Arrangement
BPSK	Binary Phase-Shift Keying	N/A	Not Applicable
BR	Bluetooth Basic Rate	NIST	National Institute of Standards and Technology
BT	Bluetooth	NS	No signal detect.
BT LE	Bluetooth Low Energy	NSA	Normalized Site Attenuation
BW	BandWidth	NVLAP	National Voluntary Laboratory Accreditation Program
Cal Int	Calibration Interval	OBW	Occupied Band Width
CCK	Complementary Code Keying	OFDM	Orthogonal Frequency Division Multiplexing
Ch., CH	Channel	OFDMA	Orthogonal Frequency Division Multiple Access
CISPR	Comite International Special des Perturbations Radioelectriques	P/M	Power meter
CW	Continuous Wave	PCB	Printed Circuit Board
DBPSK	Differential BPSK	PER	Packet Error Rate
DC	Direct Current	PHY	Physical Layer
D-factor	Distance factor	PK	Peak
DFS	Dynamic Frequency Selection	PN	Pseudo random Noise
DQPSK	Differential QPSK	PP	Preamble Puncturing
DSSS	Direct Sequence Spread Spectrum	PRBS	Pseudo-Random Bit Sequence
EDR	Enhanced Data Rate	PSD	Power Spectral Density
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QAM	Quadrature Amplitude Modulation
EMC	ElectroMagnetic Compatibility	QP	Quasi-Peak
EMI	ElectroMagnetic Interference	QPSK	Quadri-Phase Shift Keying
EN	European Norm	RBW	Resolution Band Width
ERP, e.r.p.	Effective Radiated Power	RDS	Radio Data System
EU	European Union	RE	Radio Equipment
EUT	Equipment Under Test	RF	Radio Frequency
Fac.	Factor	RMS	Root Mean Square
FCC	Federal Communications Commission	RSS	Radio Standards Specifications
FHSS	Frequency Hopping Spread Spectrum	Rx	Receiving
FM	Frequency Modulation	SA, S/A	Spectrum Analyzer
Freq.	Frequency	SG	Signal Generator
FSK	Frequency Shift Keying	SVSWR	Site-Voltage Standing Wave Ratio
GFSK	Gaussian Frequency-Shift Keying	TR	Test Receiver
GNSS	Global Navigation Satellite System	Tx	Transmitting
GPS	Global Positioning System	VBW	Video BandWidth
Hori.	Horizontal	Vert.	Vertical
ICES	Interference-Causing Equipment Standard	WLAN	Wireless LAN

CONTENTS	PAGE
SECTION 1: Customer Information	5
SECTION 2: Equipment Under Test (EUT)	5
SECTION 3: Test Summary	7
SECTION 4: Operation of EUT during testing.....	10
SECTION 5: Conducted Emission	16
SECTION 6: Radiated Spurious Emission and Band Edge Compliance	17
SECTION 7: Antenna Terminal Conducted Tests.....	19
SECTION 8: Contention Based Protocol.....	20
APPENDIX 1: Test Data	22
Conducted Emission	22
26 dB Emission Bandwidth and 99 % Occupied Bandwidth	23
Maximum Conducted Output Power	92
Maximum Power Spectral Density	153
Radiated Spurious Emission.....	269
In-Band Emissions	419
Contention Based Protocol	469
APPENDIX 2: Test Instruments.....	478
APPENDIX 3: Photographs of Test Setup.....	480
Conducted Emission	480
Radiated Spurious Emission.....	481
Worst Case Position	482
Antenna Terminal Conducted Tests	484
Contention Based Protocol	485

SECTION 1: Customer Information

Company Name	Murata Manufacturing Co., Ltd.
Address	1-10-1 Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan
Telephone Number	+81-50-1737-2801
Contact Person	Kenji Hayashikoshi

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Communication module
Model Number	LBEE5XV2EA
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	March 9, 2026
Test Date	March 13 to August 17, 2026

2.2 Product Description

General Specification

Rating	Typ. DC 3.3 V (DC 3.0 V to DC 4.8 V) for RF, Typ. DC 1.8 V (DC 1.71 V to DC 1.89 V) for IO (interface)
Operating temperature	-40 deg. C to 85 deg. C

Radio Specification

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

Bluetooth (BR/EDR/Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK) BT LE: GFSK
Antenna Gain ^{a)}	Cable length 30 mm: 0.0 dBi Cable length 300 mm: -1.8 dBi

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver
Frequency of Operation	20 MHz Band: 2412 MHz to 2462 MHz
Type of Modulation	DSSS, OFDM OFDMA (IEEE802.11ax Only)
Antenna Gain ^{a)}	Cable length 30 mm: 0.0 dBi Cable length 300 mm: -1.8 dBi
Directional Gain ^{a) *1)}	3.01 dBi

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20/11n-40/11ac-40/11ax-40/11ac-80/11ax-80)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz
	40 MHz Band	5190 MHz to 5230 MHz 5270 MHz to 5310 MHz 5510 MHz to 5670 MHz 5755 MHz to 5795 MHz
	80 MHz Band	5210 MHz 5290 MHz 5530 MHz to 5610 MHz 5775 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
		40 MHz: 26/52/106/242/484-tone RU
		80 MHz: 26/52/106/242/484/996-tone RU
Antenna Gain ^{a)}	Cable length 30 mm: 1.5 dBi Cable length 300 mm: -2.2 dBi	
Directional Gain ^{a)} *1)	4.51 dBi	

WLAN (IEEE802.11a/IEEE802.11ax-20/11ax-40/11ax-80)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band:	5955 MHz to 7095 MHz
	40 MHz Band:	5965 MHz to 7085 MHz
	80 MHz Band:	5985 MHz to 7025 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
		40 MHz: 26/52/106/242/484-tone RU
		80 MHz: 26/52/106/242/484/996-tone RU
Antenna Gain ^{a)}	Cable length 30 mm: 2.0 dBi Cable length 300 mm: -2.2 dBi	
Directional Gain ^{a)} *1)	5.01 dBi	
6 GHz Contention Based Protocol Incumbent avoidance	Channel puncturing: Not supported	
	Bandwidth reduction: Not supported	

* WLAN and Bluetooth do not transmit simultaneously.

*1) Directional antenna gain = $10 \log \left(\left(10^{\frac{Gain(ANT0)}{20}} + 10^{\frac{Gain(ANT1)}{20}} \right)^2 / 2 \right)$

SECTION 3: Test Summary

3.1 Test Specification

Test Specification	FCC Part 15 Subpart E The latest version on the first day of the testing period
Title	FCC 47 CFR Part 15 Radio Frequency Device Subpart E Unlicensed National Information Infrastructure Devices Section 15.407 General technical requirements

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014+C63.4a-2017
ANSI C63.5-2017
ANSI C63.10-2020
ANSI/USEMCSC C63.10/Cor 1-2023
ANSI/USEMCSC C63.10a-2024 (incl. Errata)
ANSI C63.25.1-2018
KDB 987594 D02

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	FCC: Section 15.407 (b) (9) / 15.207 ISED: RSS-Gen section 8.8	Complied	-
26 dB Emission Bandwidth	FCC: Section 15.407 (a) (10) ISED: -	Complied	Conducted
Maximum Conducted Output Power	FCC: Section 15.407 (a) (8) ISED: RSS-248 section 4.5.3	Complied	Conducted
Maximum Power Spectral Density	FCC: Section 15.407 (a) (8) ISED: RSS-248 section 4.5.3	Complied	Conducted
Spurious Emission Restricted Band Edge	FCC: Section 15.407 (b), 15.205 and 15.209 ISED: RSS-248 section 4.6.2	Complied	Conducted (< 30 MHz) / Radiated (> 30 MHz) *1)
In-Band Emissions	FCC: Section 15.407 (b) (7) ISED: RSS-248 section 4.6.2	Complied	Conducted
Contention Based Protocol	FCC: Section 15.407 (d) (6) ISED: RSS-248 section 4.7	Complied	Conducted
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.			
*1) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 987594 D02 G.			

FCC Part 15.31 (e)

The RF Module has its own regulator.

The RF Module is constantly provided voltage through the regulator regardless of input voltage.
Therefore, this EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement

The EUT has a unique coupling/antenna connector (U.FL).

Therefore, the equipment complies with the requirement of 15.203/212.

3.4 Addition to Standard

Item	Specification	Results	Remarks
99 % Occupied Band Width	ISED: RSS-248 4.4	-	Conducted

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.5 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k = 2$.

Conducted emission

Item	Frequency range	Unit	Calculated Uncertainty (+/-)
AMN (LISN)	0.15 MHz to 30 MHz	dB	3.4

Radiated emission

Measurement distance	Frequency range	Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz	dB	4.8
10 m		dB	4.7
3 m	30 MHz to 200 MHz	Horizontal	5.0
		Vertical	5.0
	200 MHz to 1000 MHz	Horizontal	5.2
		Vertical	6.2
10 m	30 MHz to 200 MHz	Horizontal	5.5
		Vertical	5.4
	200 MHz to 1000 MHz	Horizontal	5.5
		Vertical	5.5
3 m	1 GHz to 6 GHz	dB	5.1
	6 GHz to 18 GHz	dB	5.5
1 m	6 GHz to 18 GHz	dB	5.5
	18 GHz to 26.5 GHz	dB	5.7
	26.5 GHz to 40 GHz	dB	4.8
0.5 m	18 GHz to 40 GHz	dB	5.8

Antenna Terminal Conducted

Item	Unit	Calculated Uncertainty (+/-)
Antenna terminated conducted emission / Power density / Burst power	dB	3.50
Adjacent channel power (ACP)	dB	2.32
Bandwidth (OBW)	%	0.96
Time readout (time span upto 100 msec)	%	0.11
Time readout (time span upto 1000 msec)	%	0.11
Time readout (time span upto 60 sec)	%	0.02
Power measurement (Power meter < 8GHz)	dB	1.43
Power measurement (Call box < 6 GHz)	dB	1.89
Frequency readout (Frequency counter)	Ratio	6.7.E-07
Frequency readout (Spectrum analyzer frequency readout function)	Ratio	2.1.E-06
Temperature (constant temperature bath)	deg.C	0.69
Humidity (constant temperature bath)	%RH	2.98
Modulation characteristics	%	6.93
Frequency for mobile	Ratio	8.0.E-08
Contention-based protocol	dB	2.97

3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

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

Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber (SAC1)	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber (SAC2)	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber (SAC3)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room (PR3)	3 m
No.3 shielded room (SR3)	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber (SAC4)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room (PR4)	3 m
No.4 shielded room (SR4)	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber (SAC5)	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room (MR5)	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room (SR6)	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room (MR6)	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room (SR7)	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room (MR8)	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room (MR9)	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room (SR10)	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room (MR11)	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room (MR12)	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

* Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0 m for No.1, No.2, No.3, No.4, and No.5 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.7 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Mode	Remarks*
IEEE 802.11a SISO	6 Mbps, PN9
IEEE 802.11ax CDD 20 MHz BW (11ax-20)	MCS 5 (1SS), PN9
IEEE 802.11ax CDD 40 MHz BW (11ax-40)	MCS 5 (1SS), PN9
IEEE 802.11ax CDD 80 MHz BW (11ax-80)	MCS 5 (1SS), PN9
*The worst antenna and condition was determined based on the test result of Maximum Conducted Output Power.	
*Power of the EUT was set by the software as follows; Power Setting: Refer to Power setting column of Test Data for Maximum Conducted Output Power. Software: Software name: Transmitter Mode Version: 18.53.469.31 (Date: 2026.01.13, Storage location: Driven by connected PC)	
*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	
Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ax mode by the pre-test.	

*The Details of Operation Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency			
			U-NII-5	U-NII-6	U-NII-7	U-NII-8
Conducted emission, Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-80 (OFDM) *1)	Antenna 0 + 1	6385 MHz	-	-	-
26 dB Emission Bandwidth, 99 % Occupied Bandwidth, In-Band Emissions	Tx 11a	Antenna 1 *2)	5955 MHz	6435 MHz	6535 MHz	6895 MHz
	Tx 11ax-20 (OFDM)	Antenna 0	6175 MHz	6475 MHz	6695 MHz	6995 MHz
	Tx 11ax-20 (OFDMA)	Antenna 1	6415 MHz	6515 MHz	6855 MHz	7095 MHz
	Tx 11ax-40 (OFDM)	Antenna 0 + 1	5965 MHz	6445 MHz	6875 MHz*	6925 MHz
	Tx 11ax-40 (OFDMA)	Antenna 0	6165 MHz	6485 MHz	6685 MHz	7005 MHz
	Tx 11ax-40 (OFDMA)	Antenna 1	6405 MHz	6525 MHz*	6845 MHz	7085 MHz
	Tx 11ax-80 (OFDM)	Antenna 0	5985 MHz	6465 MHz	6625 MHz	6945 MHz
	Tx 11ax-80 (OFDMA)	Antenna 1	6145 MHz	6545 MHz*	6705 MHz	7025 MHz
Maximum Conducted Output Power, Maximum Power Spectral Density	Tx 11a	Antenna 1 *2)	5955 MHz	6435 MHz	6535 MHz	6895 MHz
	Tx 11ax-20 (OFDM)	Antenna 0	6175 MHz	6475 MHz	6695 MHz	6995 MHz
	Tx 11ax-20 (OFDMA)	Antenna 1	6415 MHz	6515 MHz	6855 MHz	7095 MHz
	Tx 11ax-40 (OFDM)	Antenna 0 + 1	5965 MHz	6445 MHz	6875 MHz*	6925 MHz
	Tx 11ax-40 (OFDMA)	Antenna 0	6165 MHz	6485 MHz	6685 MHz	7005 MHz
	Tx 11ax-40 (OFDMA)	Antenna 1	6405 MHz	6525 MHz*	6845 MHz	7085 MHz
	Tx 11ax-80 (OFDM)	Antenna 0	5985 MHz	6465 MHz	6625 MHz	6945 MHz
	Tx 11ax-80 (OFDMA)	Antenna 1	6145 MHz	6545 MHz*	6705 MHz	7025 MHz
Radiated Spurious Emission (Above 1 GHz)	Tx 11a	Antenna 1 *2)	5955 MHz	6435 MHz	6535 MHz	6895 MHz
	Tx 11ax-20 (OFDM)	Antenna 0	6175 MHz	6475 MHz	6695 MHz	6995 MHz
	Tx 11ax-20 (OFDMA) *3)	Antenna 1	6415 MHz	6515 MHz	6855 MHz	7095 MHz
	Tx 11ax-40 (OFDM)	Antenna 0 + 1	5965 MHz	6445 MHz	6875 MHz*	6925 MHz
	Tx 11ax-40 (OFDMA)	Antenna 0	6165 MHz	6485 MHz	6685 MHz	7005 MHz
	Tx 11ax-40 (OFDMA)	Antenna 1	6405 MHz	6525 MHz*	6845 MHz	7085 MHz
	Tx 11ax-80 (OFDM)	Antenna 0	5985 MHz	6465 MHz	6625 MHz	6945 MHz
	Tx 11ax-80 (OFDMA) *3)	Antenna 1	6145 MHz	6545 MHz*	6705 MHz	7025 MHz
Contention Based Protocol	Communication 11ax-20	Antenna 0 + 1	6175 MHz	6475 MHz	6695 MHz	6995 MHz
	Communication 11ax-80	Antenna 0 + 1	6145 MHz	6465 MHz	6705 MHz	6945 MHz
Conducted Spurious Emission	Tx 11ax-80 [OFDM] *1)	Antenna 1 *2)	6385 MHz	-	-	-

*Straddle channel

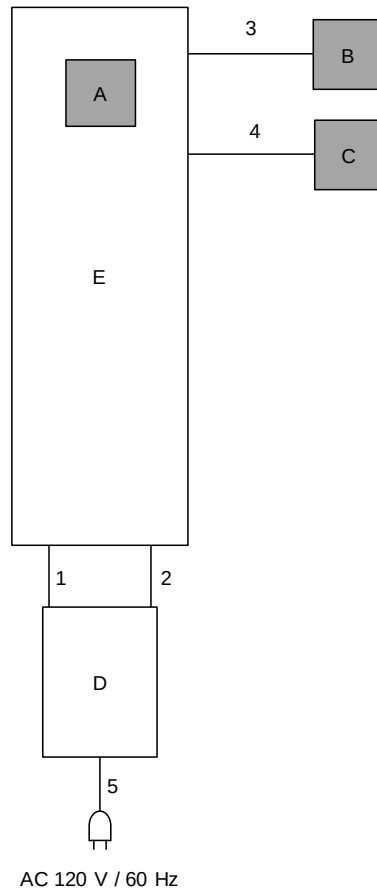
*1) The mode was tested as a representative because it had the highest power at antenna terminal test.

*2) After the comparison between Antenna 0 and Antenna 1, the test was performed with Antenna 1 as a representative, as it was the worst case.

*3) Spurious emissions testing for partial-bandwidth RU allocation was conducted only at the band edge, since preliminary testing indicated that the full bandwidth RU allocation emitted higher spurious emissions than partial bandwidth RU allocation.

4.2 Configuration and Peripherals

Conducted Emission test



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

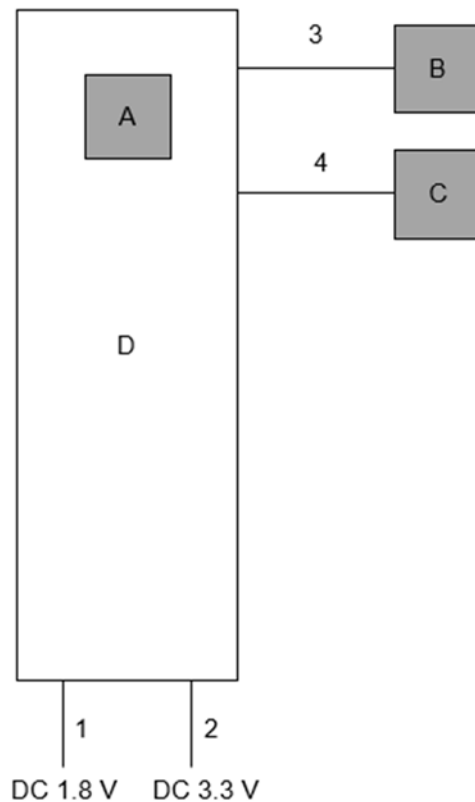
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication module	LBEE5XV2EA	No.21	Murata Manufacturing Co., Ltd.	EUT
B	Antenna	1KT-001	No.21-0	Murata Manufacturing Co., Ltd.	EUT
C	Antenna	1KT-001	No.21-1	Murata Manufacturing Co., Ltd.	EUT
D	DC Power Supply	PW16-5ADP	17116437	NIKKE TECHNO SYSTEM CO., LTD	-
E	Jig Board	P2ML12609	No.21	Murata Manufacturing Co., Ltd.	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	2.00	Unshielded	Unshielded	-
2	DC Cable	2.00	Unshielded	Unshielded	-
3	Antenna Cable	0.03	Shielded	Shielded	-
4	Antenna Cable	0.03	Shielded	Shielded	-
5	AC Cable	2.50	Unshielded	Unshielded	-

Radiated Emission test



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

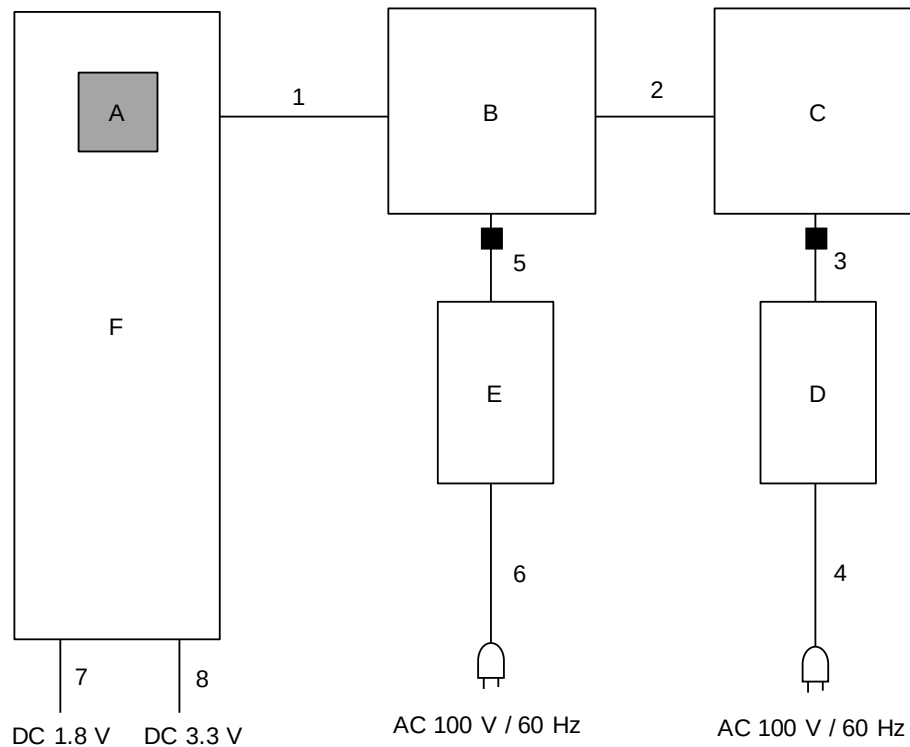
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication module	LBEE5XV2EA	No.21	Murata Manufacturing Co., Ltd.	EUT
B	Antenna	1KT-001	No.21-0	Murata Manufacturing Co., Ltd.	EUT
C	Antenna	1KT-001	No.21-1	Murata Manufacturing Co., Ltd.	EUT
D	Jig Board	P2ML12609	No.21	Murata Manufacturing Co., Ltd.	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	2.10	Unshielded	Unshielded	-
2	DC Cable	1.60	Unshielded	Unshielded	-
3	Antenna Cable	0.03	Shielded	Shielded	-
4	Antenna Cable	0.03	Shielded	Shielded	-

Antenna Terminal Conducted test other than CBP



■ : Standard Ferrite Core

* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

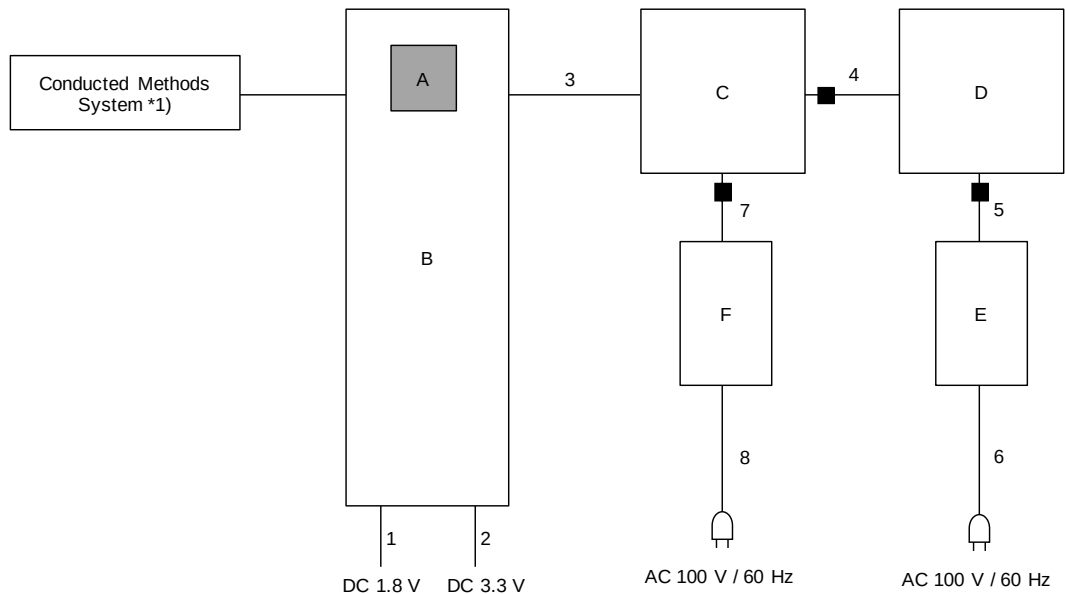
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication module	LBEE5XV2EA	No.3	Murata Manufacturing Co., Ltd.	EUT
B	Compact PC	GB-BSi7-6500	No.6	GIGABYTE	-
C	Laptop PC	CF-LX4EDHCS	5GKSA17377	Panasonic	-
D	AC Adapter	CF-AA62J2C	64B2CM114703755 B	Panasonic	-
E	AC Adapter	9NA0652107	H4121003524	FSP GROUP INC.	-
F	Jig Board	P2ML12609	No.3	Murata Manufacturing Co., Ltd.	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Signal Cable	0.20	Unshielded	Unshielded	-
2	LAN Cable	3.00	Unshielded	Unshielded	-
3	DC Cable	1.70	Unshielded	Unshielded	-
4	AC Cable	1.00	Unshielded	Unshielded	-
5	DC Cable	1.50	Unshielded	Unshielded	-
6	AC Cable	0.80	Unshielded	Unshielded	-
7	DC Cable	0.65	Unshielded	Unshielded	-
8	DC Cable	0.65	Unshielded	Unshielded	-

Antenna Terminal Conducted test for CBP



■ : Standard Ferrite Core

* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

*1) BLOCK DIAGRAM of Receiver Blocking on APPENDIX 1.

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Communication module	LBEE5XV2EA	No.3	Murata Manufacturing Co., Ltd.	EUT
B	Jig Board	P2ML12609	No.3	Murata Manufacturing Co., Ltd.	-
C	Jig Board	i.MX8mquad	TR18282419	NXP Semiconductors	-
D	Laptop PC	CF-SV7RDAVS	9IKSC48031	Panasonic	-
E	AC Adapter	CF-AA62J2C	64L2CM111189231 95A	Panasonic	-
F	AC Adapter	EA10682N-120	400-76062	EDACPOWER Electronics Co., Ltd	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	0.65	Unshielded	Unshielded	-
2	DC Cable	0.65	Unshielded	Unshielded	-
3	Signal Cable	0.15	Unshielded	Unshielded	-
4	USB Cable	1.00	Shielded	Shielded	-
5	DC Cable	1.00	Unshielded	Unshielded	-
6	AC Cable	0.80	Unshielded	Unshielded	-
7	DC Cable	1.20	Unshielded	Unshielded	-
8	AC Cable	1.50	Unshielded	Unshielded	-

SECTION 5: Conducted Emission

Test Procedure and Conditions

EUT was placed on the platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The rear of the platform was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and flushed with rear of the platform. All other surfaces of the platform were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN) / Artificial mains Network (AMN) and excess AC cable was bundled in center.

For the tests on EUT with other peripherals (as a whole system)

I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. All unused 50 ohm connectors of the LISN (AMN) were resistivity terminated in 50 ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber.

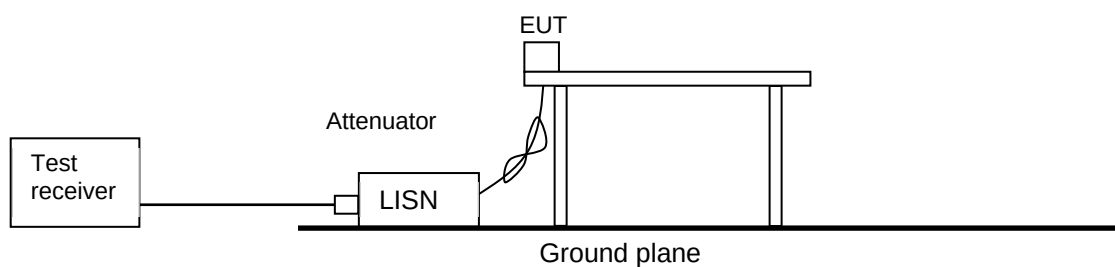
The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Test results are rounded off and limit are rounded down, so some differences might be observed.

Detector	: QP and CISPR Average
Measurement Range	: 0.15 MHz to 30 MHz
Test Data	: APPENDIX
Test Result	: Pass

Figure 1: Test Setup



SECTION 6: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on the platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1 GHz >

EUT was placed on the platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

The height of the measuring antenna varied between 1 m and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

< Below 1 GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1 GHz >

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.*) in the Section 15.407 (b) (6).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

*Electric field strength to e.i.r.p. conversion:

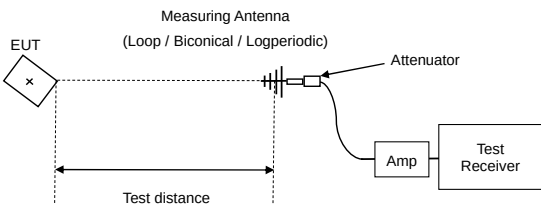
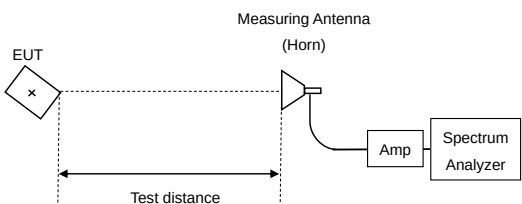
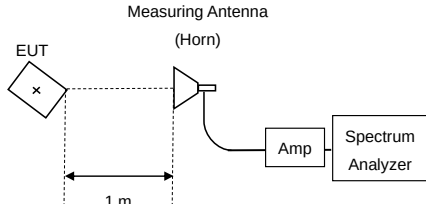
$$E = \frac{1000000\sqrt{30P}}{3} \text{ (uV/m)} \quad :P \text{ is the e.i.r.p. (Watts)}$$

Test Antennas are used as below;

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

Frequency	Below 1 GHz	Above 1 GHz	
Instrument Used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz VBW: 3 MHz	Method AD RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: ≥ 100 traces If duty cycle was less than 98%, a duty factor was added to the results.

Figure 2: Test Setup

Below 1 GHz  × : Center of turn table	Test Distance: 3 m
1 GHz to 18 GHz  × : Center of turn table	Test Distance: 3 m
18 GHz to 40 GHz  × : Center of turn table	Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$ *Test Distance: 1 m

The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test results are rounded off and limit are rounded down, so some differences might be observed.

Measurement Range : 30 MHz to 40 GHz
Test Data : APPENDIX
Test Result : Pass

SECTION 7: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port. (Contention Based Protocol is described in SECTION 8.)

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used and Test method
26 dB Bandwidth	Enough to capture the emission	Close to 1 % of EBW	> RBW	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth *1)	Enough width to display emission skirts	1 % to 5 % of OBW	≥ 3 RBW	Auto	Peak	Max Hold	Spectrum Analyzer
6 dB Bandwidth	Enough to capture the emission	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Conducted Output Power	-	-	-	Auto	Average	-	Power Meter (Sensor: 80 MHz BW) (Method PM-G)
Maximum Power Spectral Density	Encompass the entire EBW	1 MHz	≥ 3 RBW	Auto	RMS Power Averaging (≥ 100 traces)	Clear Write	Spectrum Analyzer
Conducted Spurious Emission*2) *3)	9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz to 30 MHz	10 kHz	30 kHz				
In-Band Emissions	Enough to capture the emission	same RBW used for 26 dB Bandwidth measurement	≥ 3 RBW	Auto	RMS Power Averaging (≥ 100 traces)	Clear Write	Spectrum Analyzer

*1) Peak hold was applied as Worst-case measurement.
 *2) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents. Then, wide-band noise near the limit was checked separately, however the noise was low enough as shown in the chart. (9 kHz to 150 kHz: RBW = 200 Hz, 150 kHz to 30 MHz: RBW = 10 kHz).
 *3) The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 ohms. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to $45.5 - 51.5 = -6.0$ dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

Test results are rounded off and limit are rounded down, so some differences might be observed.
The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX
Test Result : Pass

SECTION 8: Contention Based Protocol

Operating Modes

The EUT operates in the following band / bands: U-NII-5 (5925 MHz to 6425 MHz), U-NII-6 (6425 MHz to 6525 MHz), U-NII-7 (6525 MHz to 6875 MHz) and U-NII-8 (6875 MHz to 7125 MHz).

The EUT is classified as a 6 GHz Low power Indoor Client.

The lowest gain antenna assembly utilized with the EUT has a gain of -2.2 dBi in the U-NII 5 band, -2.2 dBi in the U-NII 6 band, -2.2 dBi in the U-NII 7 band and -2.2 dBi in the U-NII 8 band.

Two sets of two antennas, one set per chain, are utilized to meet the diversity and MIMO operational requirements.

The EUT uses two transmitter/receiver chains, each connected to a 50-ohm coaxial antenna port. All antenna ports are connected to the test system via a power divider to perform conducted tests.

The maximum allowable AWGN Incumbent Detection Threshold level is -62 dBm/MHz.

WLAN traffic was generated by transferring a data stream from the EUT to the Companion Device using iPerf version 2.0.13 software package.
(Date: 2026.01.13, Storage location: Driven by connected PC)

The EUT utilizes the 802.11ax architecture, with a 20 MHz, 40 MHz and 80 MHz channel bandwidth.

System Overview

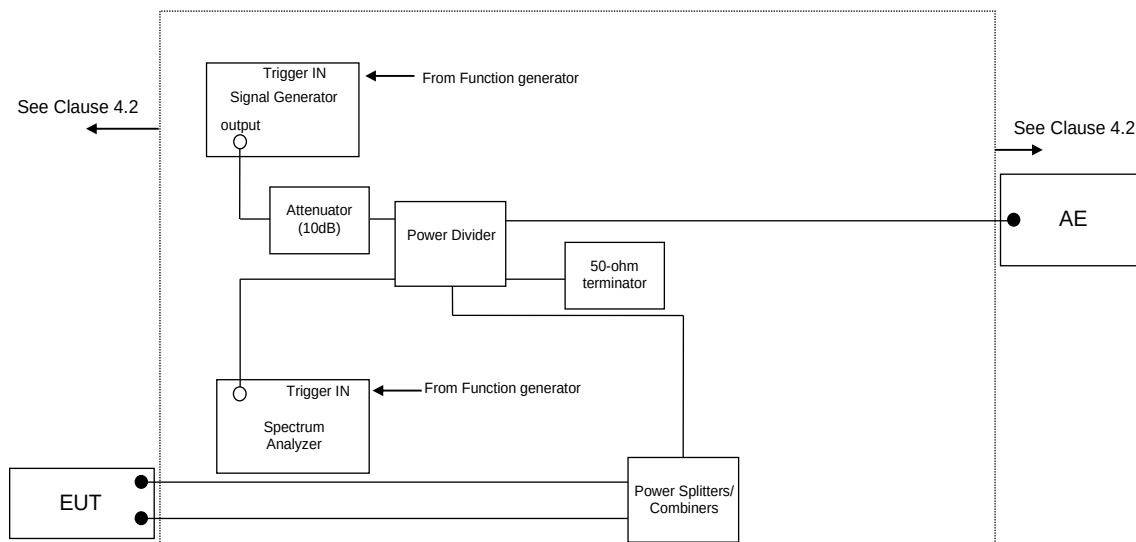
Should multiple RF ports be utilized for the EUT and/or Companion devices (for example, for diversity or MIMO implementations), combiner/dividers are inserted between the EUT MIMO Combiner/Divider and the attenuator connected to the EUT (and/or between the Companion MIMO Combiner/Divider and the attenuator connected to the Companion Device). Additional attenuators may be utilized such that there is one attenuator at each RF port on each device.

The Test setup is different from 987594 D02 U-NII 6 GHz EMC Measurement v03, but it is equivalent.

SYSTEM CALIBRATION

The monitoring cable is disconnected from the spectrum analyzer and a 50-ohm load is connected to the end of the monitoring cable in place of the spectrum analyzer. The cable connected to the EUT is then attached to the spectrum analyzer in place of the monitoring cable. A signal generator is then set to produce a modulated AWGN Incumbent Signal that has a 99% occupied power bandwidth of 10 MHz. The output amplitude of the signal generator is adjusted to yield the allowable maximum AWGN Incumbent Signal level as measured on the spectrum analyzer. The EUT and monitoring cables are then returned to their original configurations to perform the test.

Conducted Methods System Block Diagram



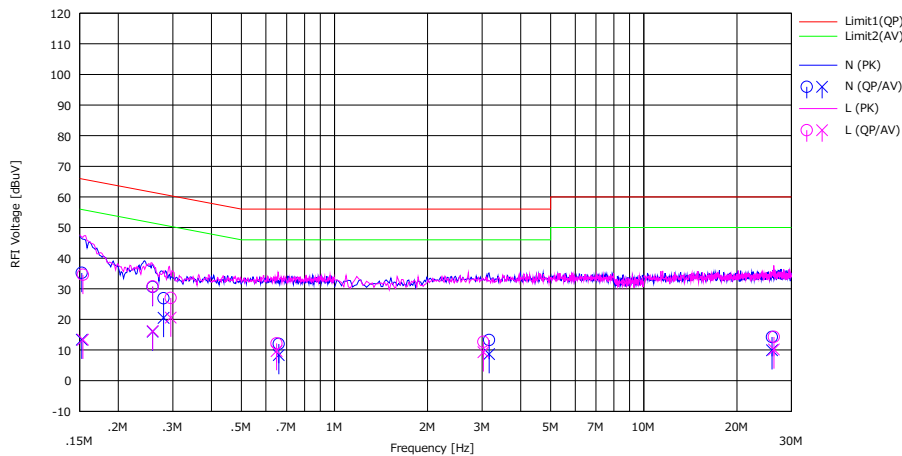
Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

Conducted Emission

Mode	Tx 11ax-80(OFDM) 6385 MHz			
Date	Test site	Temperature	Humidity	Engineer
May 20, 2026	SAC2	22 deg. C	66 % RH	Wataru Toriyama

Limit : FCC_Part 15 Subpart E(15.207) / RSS-Gen 8.8



No.	Freq. [MHz]	Reading		USN	LOSS	Results		Limit		Margin		Phase	Comment
		(QP) [dBuV]	(AV) [dBuV]			(QP) [dBuV]	(AV) [dBuV]	(QP) [dBuV]	(AV) [dBuV]	(QP) [dB]	(AV) [dB]		
1	0.15228	22.00	0.20	0.05	13.14	35.19	13.39	65.87	55.87	30.68	42.48	N	
2	0.25820	17.40	2.80	0.05	13.16	30.61	16.01	61.49	51.49	30.88	35.48	N	
3	0.27997	13.70	7.30	0.05	13.17	26.92	20.52	60.82	50.82	33.90	30.30	N	
4	0.66020	-1.30	-4.90	0.05	13.23	11.98	8.38	56.00	46.00	44.02	37.62	N	
5	3.16240	-0.30	-4.90	0.08	13.51	13.29	8.69	56.00	46.00	42.71	37.31	N	
6	25.96820	-0.80	-5.10	0.53	14.51	14.24	9.94	60.00	50.00	45.76	40.06	N	
7	0.15364	21.40	0.20	0.04	13.14	34.58	13.38	65.80	55.80	31.22	42.42	L	
8	0.25836	17.60	3.00	0.04	13.16	30.80	16.20	61.48	51.48	30.68	35.28	L	
9	0.29538	13.80	7.40	0.04	13.17	27.01	20.61	60.37	50.37	33.36	29.76	L	
10	0.64960	-1.10	-3.60	0.04	13.23	12.17	9.67	56.00	46.00	43.83	36.33	L	
11	3.02800	-0.90	-4.30	0.08	13.50	12.68	9.28	56.00	46.00	43.32	36.72	L	
12	26.34300	-0.80	-4.90	0.58	14.52	14.30	10.20	60.00	50.00	45.70	39.80	L	

CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + C.F (LISN + CABLE + ATT)
Except for the above table: adequate margin data below the limits.

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR8	22 deg.C	52 %RH	Takafumi Noguchi

11a

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	21.106	16478.2
6175	21.058	16514.3
6415	21.064	16513.7
6435	20.924	16473.8
6475	20.944	16491.8
6515	20.743	16490.5
6535	20.986	16523.7
6695	20.975	16520.0
6855	20.974	16492.3
6875	21.009	16469.7
6895	20.908	16479.7
6995	20.859	16483.1
7095	21.050	16512.8

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
March 27, 2026	MR8	21 deg.C	49 %RH	Takafumi Noguchi
April 06, 2026	MR8	21 deg.C	60 %RH	Takafumi Noguchi

11ax-20(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	21.553	19061.5
6175	21.688	19047.9
6415	21.779	19060.9
6435	21.642	19052.7
6475	21.709	19056.6
6515	21.748	19053.4
6535	21.799	19053.1
6695	21.805	19057.9
6855	21.887	19063.2
6875	21.755	19058.0
6895	21.621	19064.0
6995	21.848	19048.8
7095	21.722	19049.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
------	----	--	--	--

Date	Test Place	Temperature	Humidity	Engineer
April 06, 2026	MR8	21 deg.C	60 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	0	19.743	18299.9
6175	4	18.047	16947.1
6415	8	19.871	18481.2
6435	0	19.747	18242.1
6475	4	18.063	16964.0
6515	8	19.809	18515.0
6535	0	19.735	18259.2
6695	4	18.067	16976.5
6855	8	19.905	18499.9
6875	8	19.817	18510.2
6895	0	19.785	18250.6
6995	4	18.057	16929.1
7095	8	19.782	18534.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 07, 2026	MR8	22 deg.C	45 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	37	20.091	18183.0
6175	38	18.626	17051.4
6415	40	19.895	18299.4
6435	37	19.921	18152.6
6475	38	18.815	17055.1
6515	40	19.946	18282.0
6535	37	19.943	18174.3
6695	38	18.735	17069.9
6855	40	19.914	18286.9
6875	40	20.009	18310.3
6895	37	20.049	18158.3
6995	38	18.693	17039.6
7095	40	20.118	18328.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 07, 2026	MR8	22 deg.C	45 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	53	20.075	18050.7
6175	53	19.965	17991.0
6415	54	20.246	18287.1
6435	53	19.934	18013.5
6475	53	19.995	18033.9
6515	54	20.153	18293.1
6535	53	19.937	18032.0
6695	53	19.932	18046.0
6855	54	20.128	18278.2
6875	54	20.158	18276.2
6895	53	19.905	17975.8
6995	53	19.986	17994.9
7095	54	20.228	18288.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
March 27, 2026	MR8	21 deg.C	49 %RH	Takafumi Noguchi
April 06, 2026	MR8	21 deg.C	60 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5955	61	21.660	19069.9
6175	61	21.719	19075.7
6415	61	21.496	19071.5
6435	61	21.721	19061.6
6475	61	21.715	19077.7
6515	61	21.643	19052.3
6535	61	21.658	19062.2
6695	61	21.565	19057.3
6855	61	21.615	19050.9
6875	61	21.634	19056.3
6895	61	21.578	19061.9
6995	61	21.679	19058.1
7095	61	21.610	19083.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
March 30, 2026	MR8	23 deg.C	51 %RH	Wataru Toriyama

11ax-40(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	40.030	37453.4
6165	40.085	37405.7
6405	40.053	37481.0
6445	40.008	37473.7
6485	40.037	37485.6
6525	39.940	37467.9
6565	40.086	37449.5
6685	40.028	37478.8
6845	40.017	37469.3
6885	40.066	37452.2
6925	40.080	37469.0
7005	40.033	37483.2
7085	39.995	37471.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 09, 2026	MR8	22 deg.C	42 %RH	Yuta Moriya
April 16, 2026	MR8	21 deg.C	52 %RH	Takafumi Noguchi

11ax-40(OFDMA), 26-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	0	19.464	18134.2
6165	8	22.892	21173.5
6405	17	19.641	18185.9
6445	0	19.416	18149.5
6485	8	22.940	21367.9
6525	17	19.698	18213.2
6565	0	19.469	18163.8
6685	8	23.510	21437.8
6845	17	19.653	18241.5
6885	17	19.709	18288.1
6925	0	19.394	18190.2
7005	8	23.330	21802.3
7085	17	19.819	18280.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 13, 2026	MR8	22 deg.C	48 %RH	Yuichiro Yamazaki

11ax-40(OFDMA), 52-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	37	20.278	17925.5
6165	40	25.163	20998.4
6405	44	19.818	18063.4
6445	37	20.305	17960.6
6485	40	25.083	21003.1
6525	44	19.741	18012.3
6565	37	20.204	17952.0
6685	40	25.188	21143.3
6845	44	19.796	18075.0
6885	44	19.816	18078.0
6925	37	20.191	17957.4
7005	40	25.006	21166.0
7085	44	19.987	18076.6

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 13, 2026	MR8	22 deg.C	48 %RH	Yuichiro Yamazaki

11ax-40(OFDMA), 106-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	53	20.333	17879.4
6165	54	26.035	19906.8
6405	56	20.451	17978.2
6445	53	20.151	17882.1
6485	54	26.517	19931.5
6525	56	20.568	17926.5
6565	53	20.074	17894.1
6685	54	26.242	20050.9
6845	56	20.657	17962.1
6885	56	20.516	17959.1
6925	53	20.555	17872.2
7005	54	25.990	19949.3
7085	56	20.505	17962.4

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 13, 2026	MR8	22 deg.C	48 %RH	Yuichiro Yamazaki

11ax-40(OFDMA), 242-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	61	29.001	19808.1
6165	61	28.623	19689.3
6405	62	33.296	20325.5
6445	61	30.228	19751.5
6485	61	28.932	19806.2
6525	62	30.901	20103.2
6565	61	28.813	19854.2
6685	61	28.616	19895.3
6845	62	31.775	20404.5
6885	62	32.068	20224.1
6925	61	29.128	19900.4
7005	61	28.633	19741.1
7085	62	31.345	20308.4

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
------	----

Date	Test Place	Temperature	Humidity	Engineer
April 08, 2026	MR8	24 deg.C	50 %RH	Takafumi Noguchi

11ax-40(OFDMA), 484-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5965	65	40.073	37451.6
6165	65	40.115	37466.5
6405	65	40.101	37493.9
6445	65	40.101	37488.3
6485	65	40.153	37505.7
6525	65	40.105	37504.4
6565	65	40.264	37472.8
6685	65	40.082	37502.9
6845	65	40.296	37499.9
6885	65	40.096	37513.3
6925	65	40.088	37501.0
7005	65	40.198	37500.7
7085	65	40.109	37511.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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Date	Test Place	Temperature	Humidity	Engineer
April 08, 2026	MR8	24 deg.C	50 %RH	Takafumi Noguchi

11ax-80(OFDM)

Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	81.485	76811.1
6145	81.489	76868.7
6385	81.478	76934.3
6465	81.443	76954.2
6545	81.539	76906.3
6625	81.483	76942.3
6705	81.593	76871.9
6785	81.648	76942.1
6865	81.470	76809.7
6945	81.485	76881.2
7025	81.654	76919.4

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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Date	Test Place	Temperature	Humidity	Engineer
April 14, 2026	MR8	21 deg.C	46 %RH	Kiyoshiro Okazaki

11ax-80(OFDMA), 26-tone RU

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	0	20.849	19413.3
6145	18	39.201	36960.0
6385	36	20.703	19702.7
6465	0	20.662	19393.3
6545	36	20.557	19786.5
6625	0	20.682	19473.0
6705	18	39.209	37106.0
6785	36	20.828	19763.3
6865	36	20.710	19604.7
6945	0	20.703	19876.0
7025	36	20.739	21995.9

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx			
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Date	Test Place	Temperature	Humidity	Engineer
April 14, 2026	MR8	21 deg.C	46 %RH	Kiyoshiro Okazaki

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	37	21.135	18966.3
6145	44	26.260	23282.6
6385	52	21.173	19613.1
6465	37	21.218	18814.9
6545	52	21.040	19105.2
6625	37	21.280	19195.2
6705	44	27.196	24074.0
6785	52	20.941	19475.5
6865	52	21.082	19232.5
6945	37	21.239	19162.8
7025	52	21.484	21889.4

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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Date	Test Place	Temperature	Humidity	Engineer
April 14, 2026	MR8	21 deg.C	46 %RH	Kiyoshiro Okazaki

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	53	22.900	19329.4
6145	56	29.329	22632.9
6385	60	22.448	19714.7
6465	53	22.254	19081.0
6545	60	22.080	19108.8
6625	53	22.135	19183.1
6705	56	29.365	23156.5
6785	60	22.912	19820.6
6865	60	22.413	19316.9
6945	53	22.859	19832.9
7025	60	22.631	21396.3

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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Date	Test Place	Temperature	Humidity	Engineer
April 15, 2026	MR8	20 deg.C	51 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	61	35.563	24961.9
6145	62	52.038	39459.9
6385	64	44.434	28321.5
6465	61	35.313	25008.1
6545	64	39.041	25799.8
6625	61	34.178	24934.5
6705	62	51.900	40019.4
6785	64	41.114	27314.8
6865	64	41.075	26460.9
6945	61	34.383	24651.5
7025	64	41.566	27549.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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Date	Test Place	Temperature	Humidity	Engineer
April 15, 2026	MR8	20 deg.C	51 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	65	55.774	38979.9
6145	65	54.792	38899.1
6385	66	54.985	39311.7
6465	65	56.013	38970.8
6545	66	55.728	38908.0
6625	65	55.537	39059.8
6705	65	56.068	39065.9
6785	66	55.034	39098.0
6865	66	56.175	39386.8
6945	65	54.817	38959.2
7025	66	57.200	39468.1

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Mode	Tx
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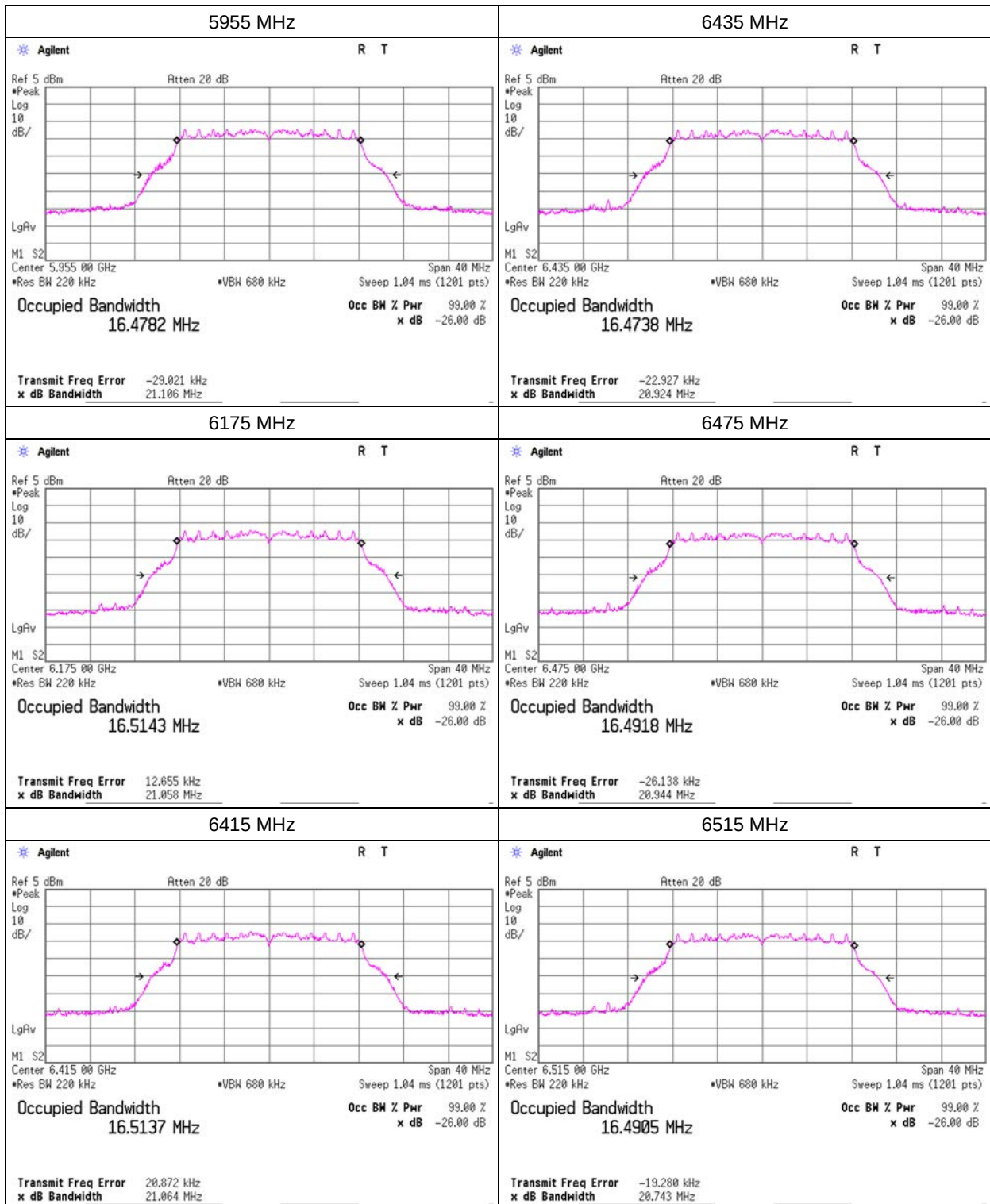
Date	Test Place	Temperature	Humidity	Engineer
April 08, 2026	MR8	24 deg.C	50 %RH	Takafumi Noguchi

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

Tested Frequency [MHz]	RU Index	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
5985	67	81.965	76989.8
6145	67	81.729	76927.8
6385	67	81.936	77033.0
6465	67	81.872	77045.5
6545	67	81.921	77018.4
6625	67	81.912	77044.6
6705	67	81.824	77015.5
6785	67	81.785	76992.3
6865	67	81.794	76901.1
6945	67	81.889	76984.0
7025	67	81.881	76990.3

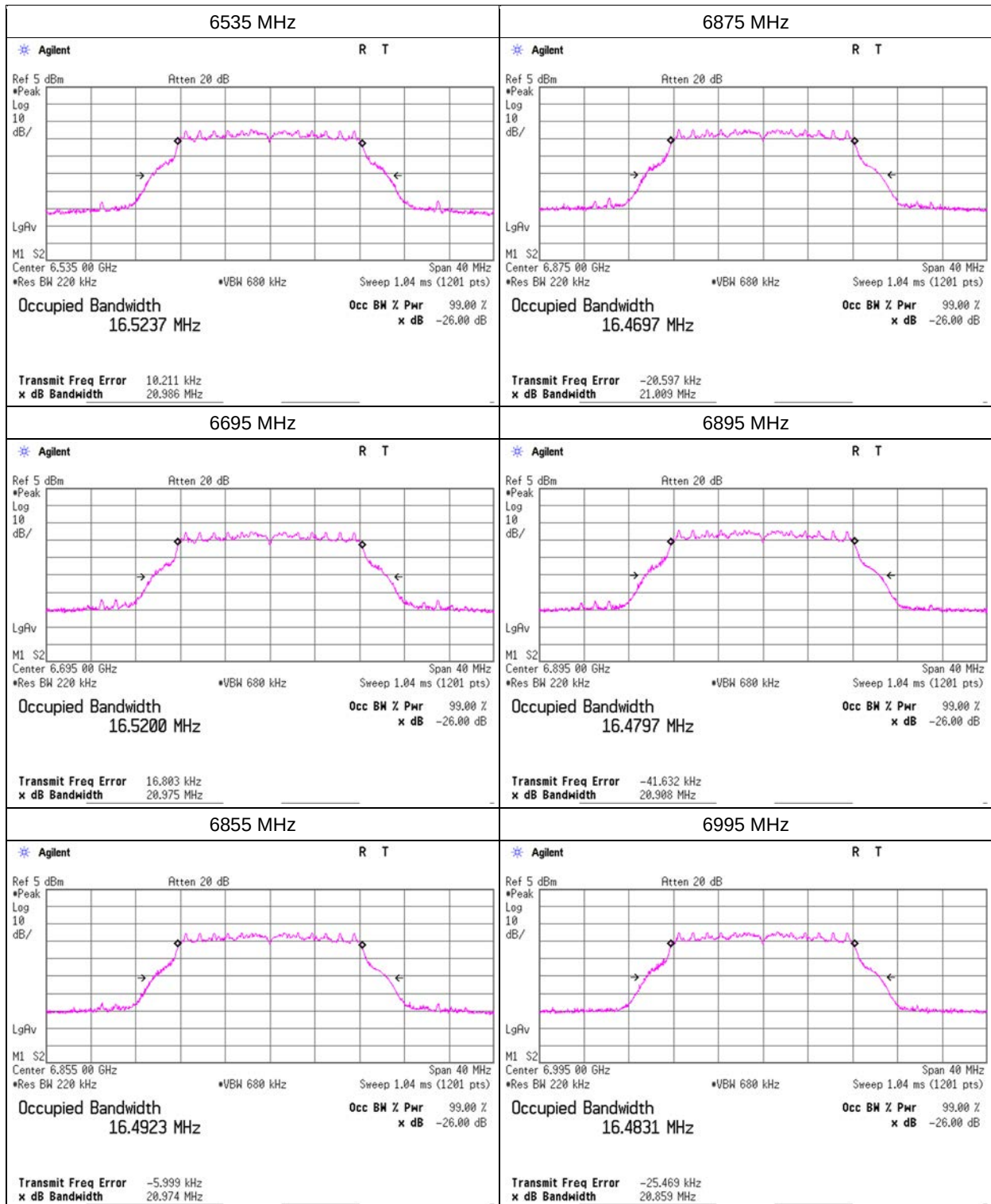
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11a



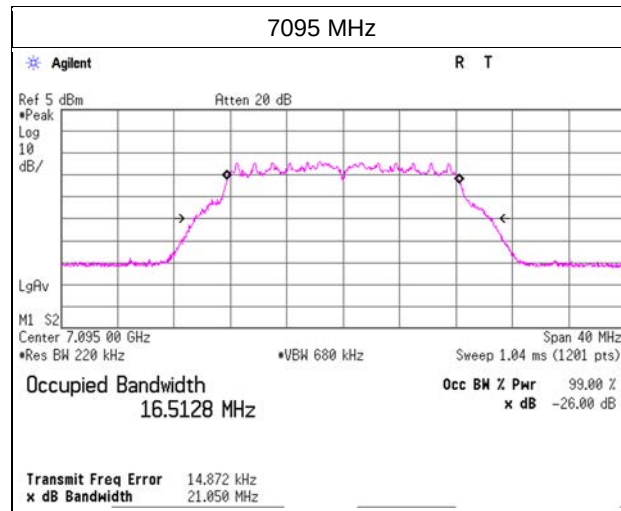
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11a



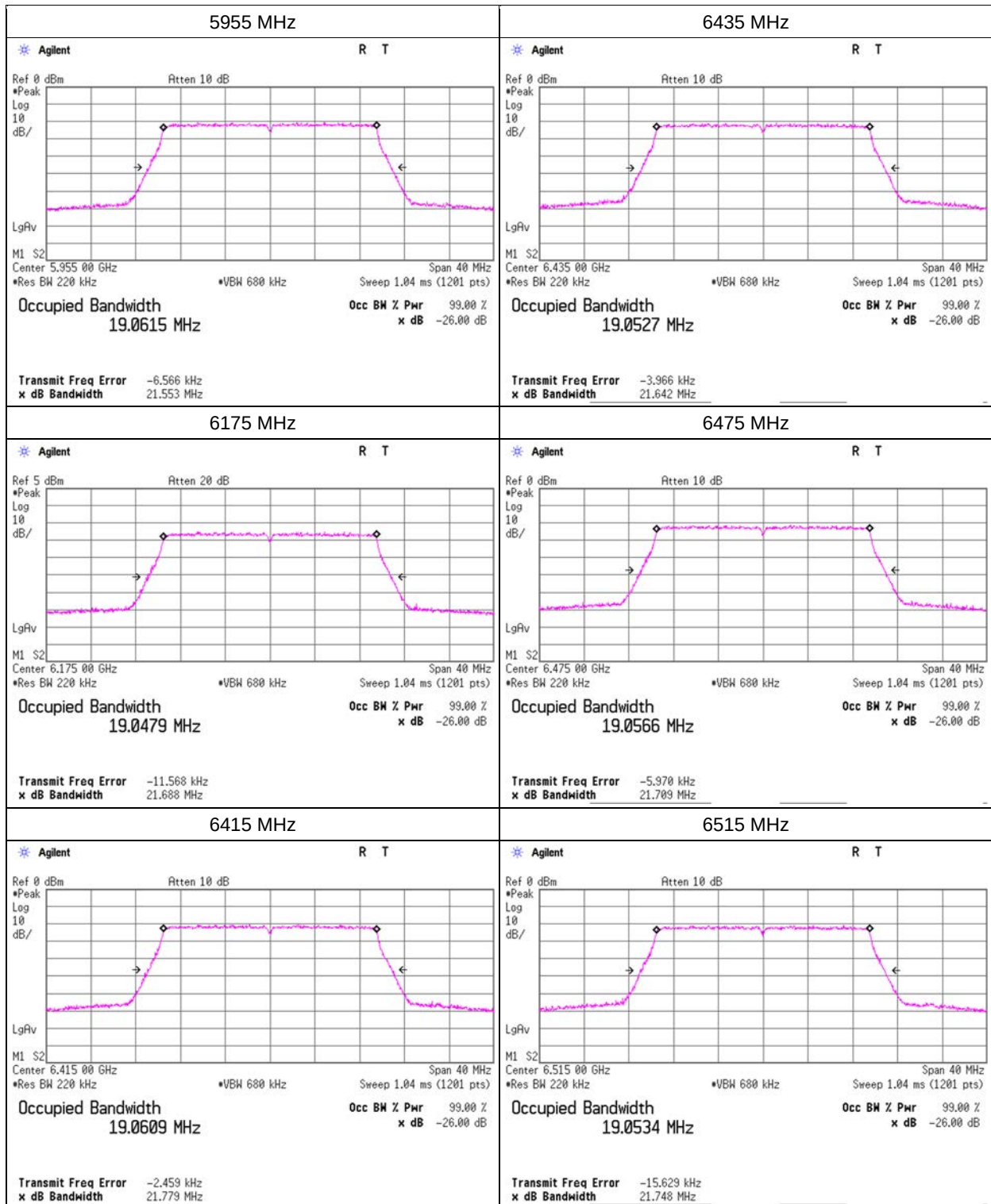
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11a



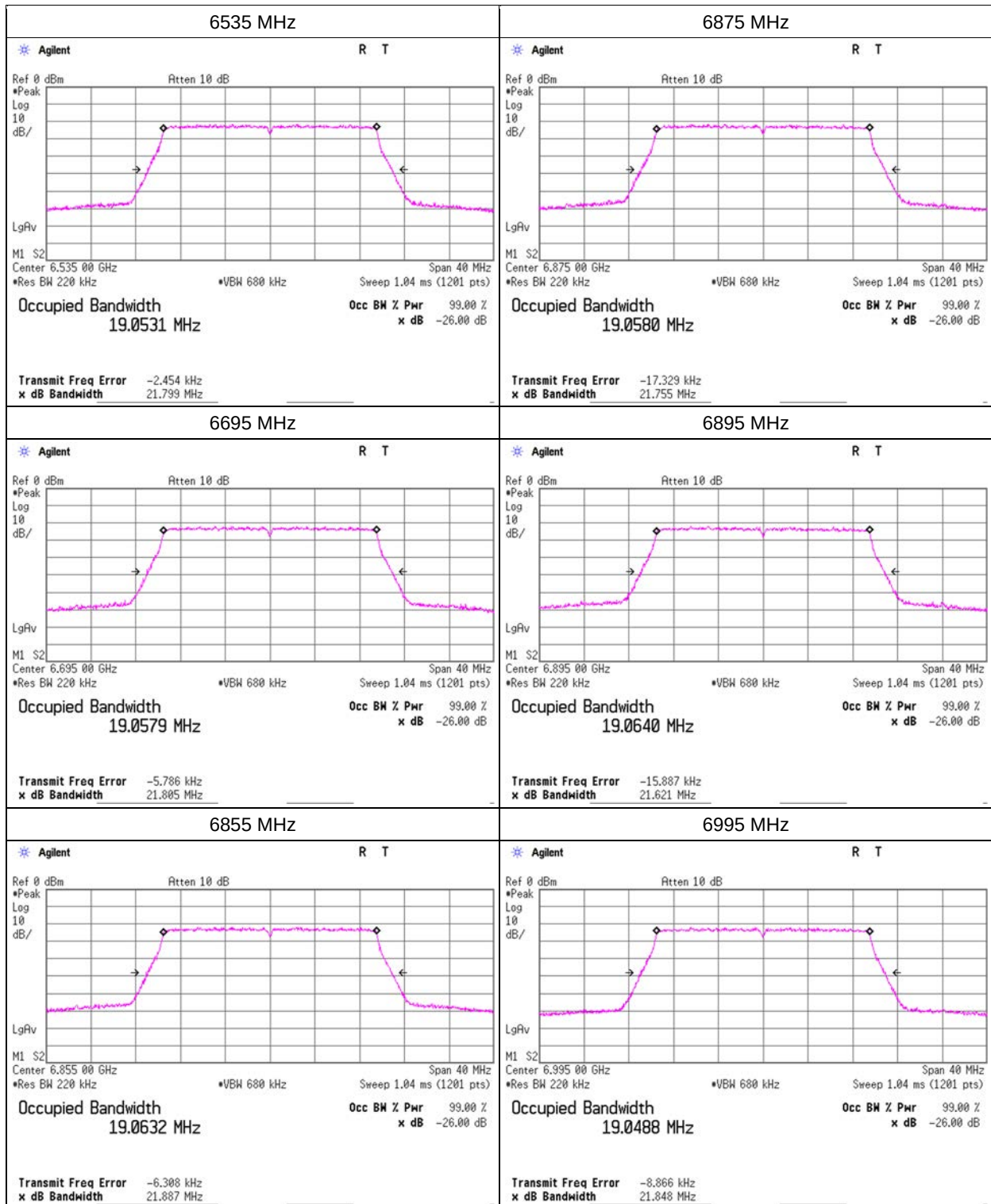
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-20(OFDM)



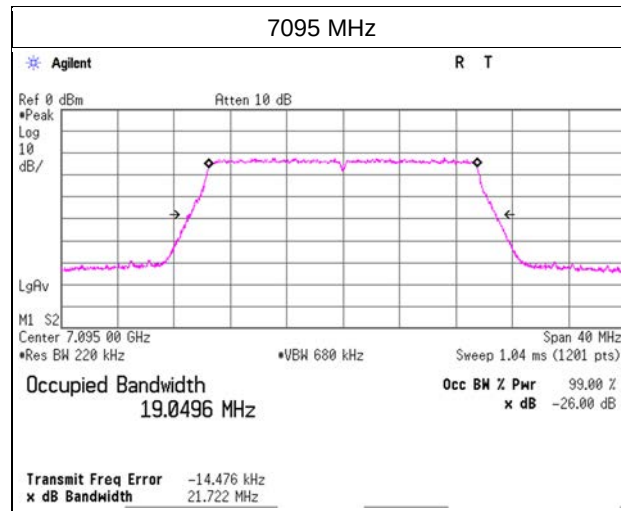
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-20(OFDM)



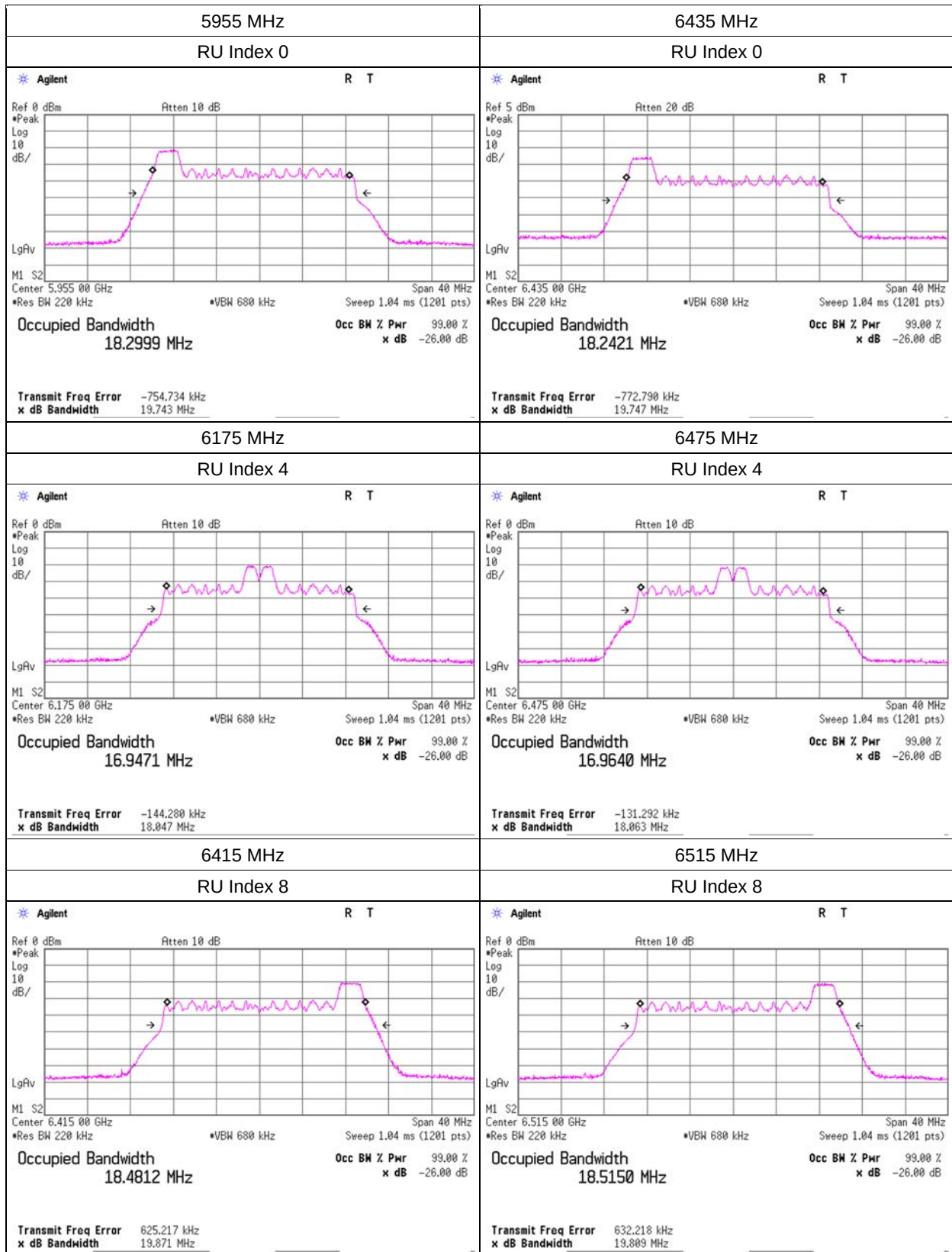
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-20(OFDM)



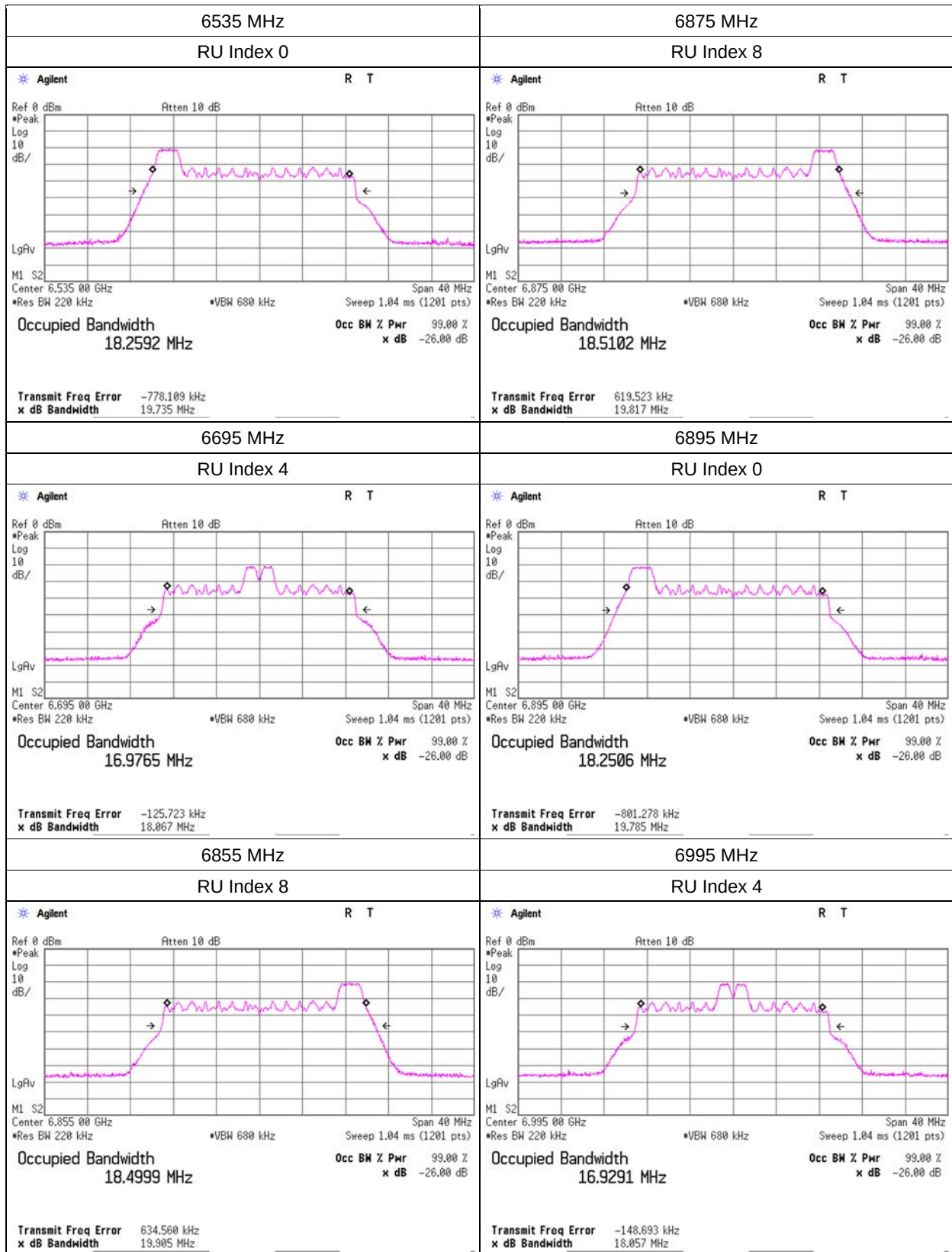
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



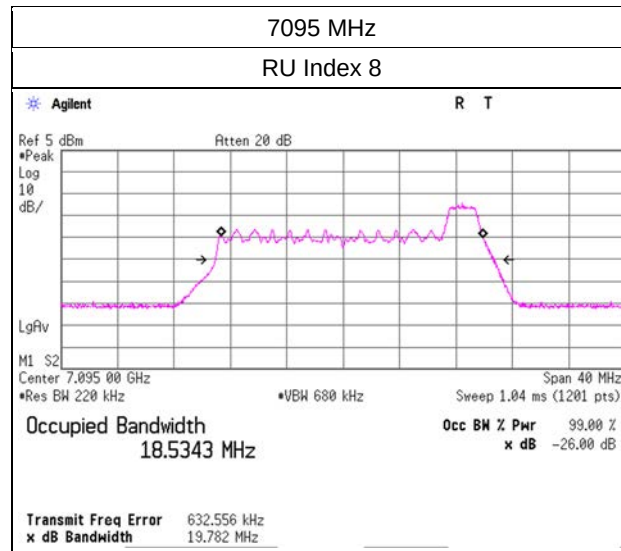
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



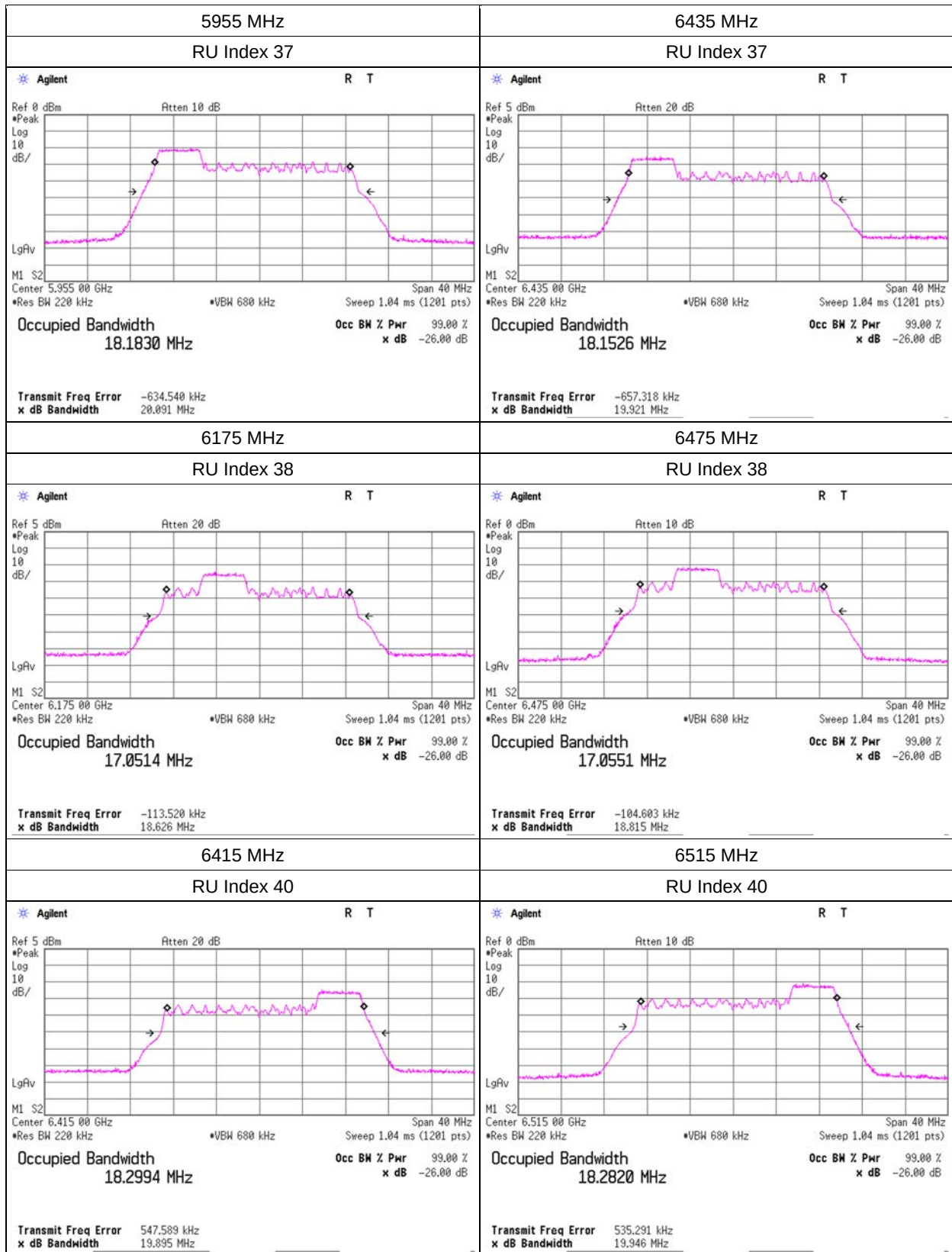
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



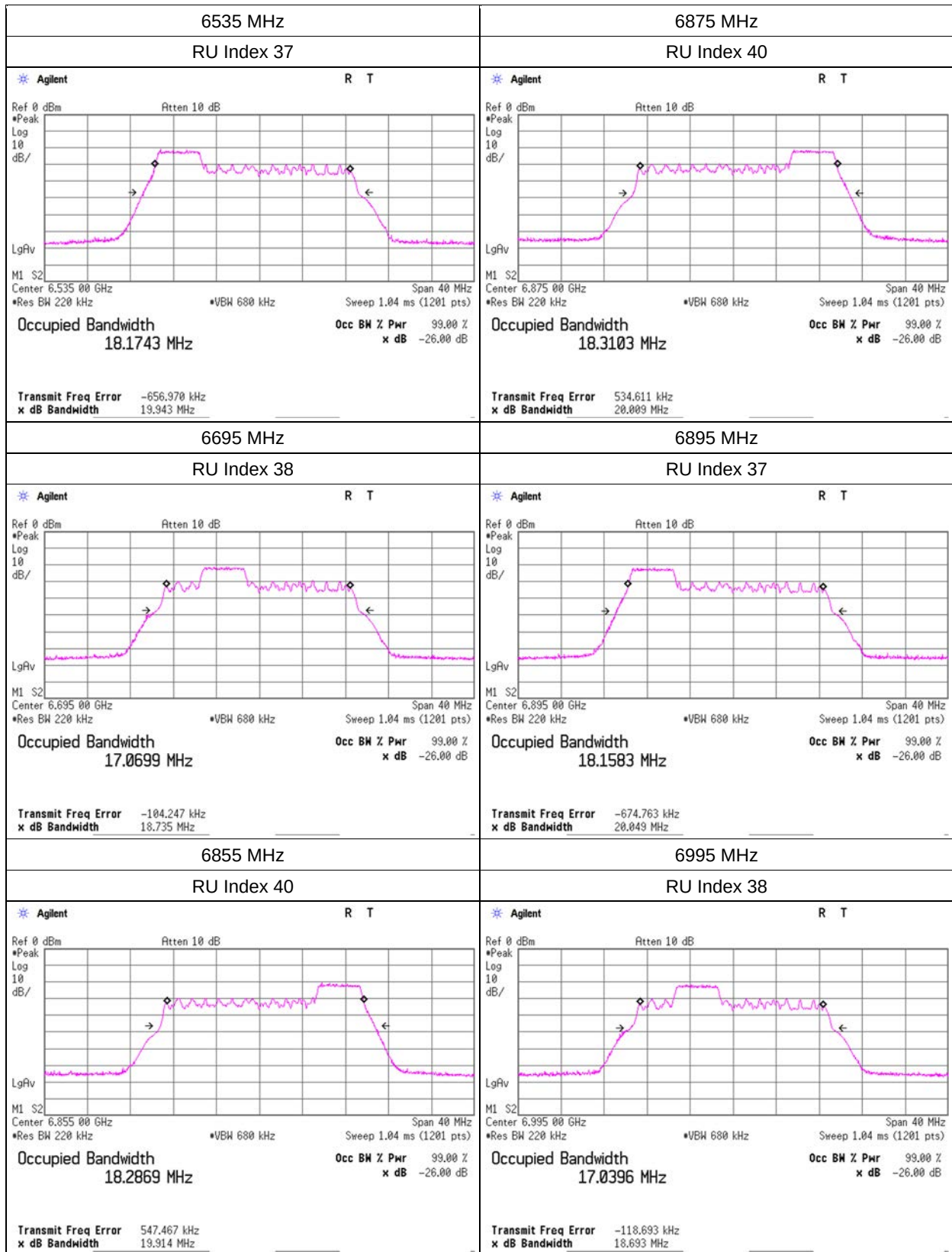
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



7095 MHz

RU Index 40

Agilent

R T

Ref 0 dBm

Atten 10 dB

#Peak

Log

10

dB/

LgRv

M1 S2

Center 7.095 00 GHz

Res BW 220 kHz

VBW 680 kHz

Span 40 MHz

Sweep 1.04 ms (1201 pts)

Occupied Bandwidth

18.3283 MHz

Occ BW X Pwr

x dB

99.00 %

-26.00 dB

Transmit Freq Error

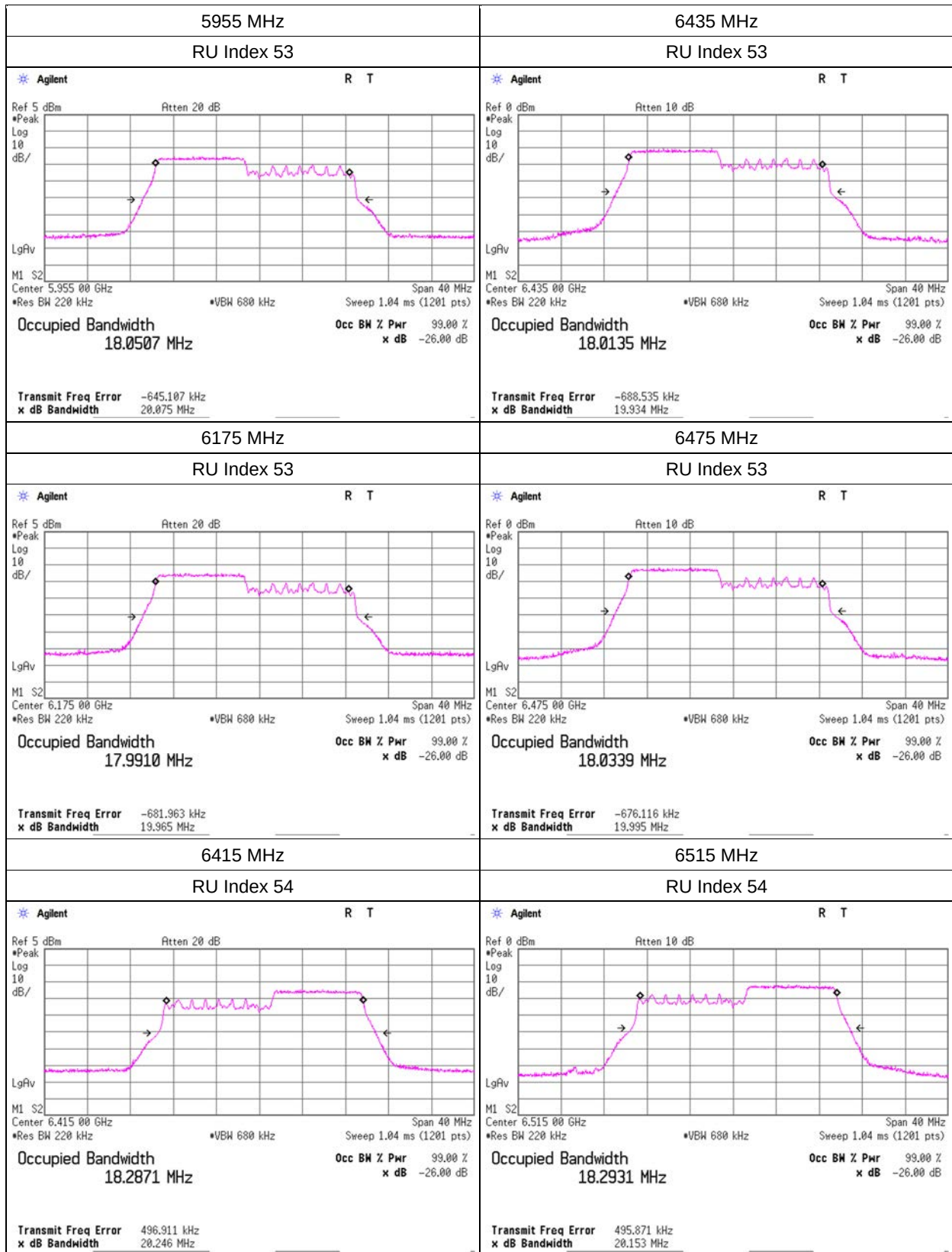
533.652 kHz

x dB Bandwidth

20.118 MHz

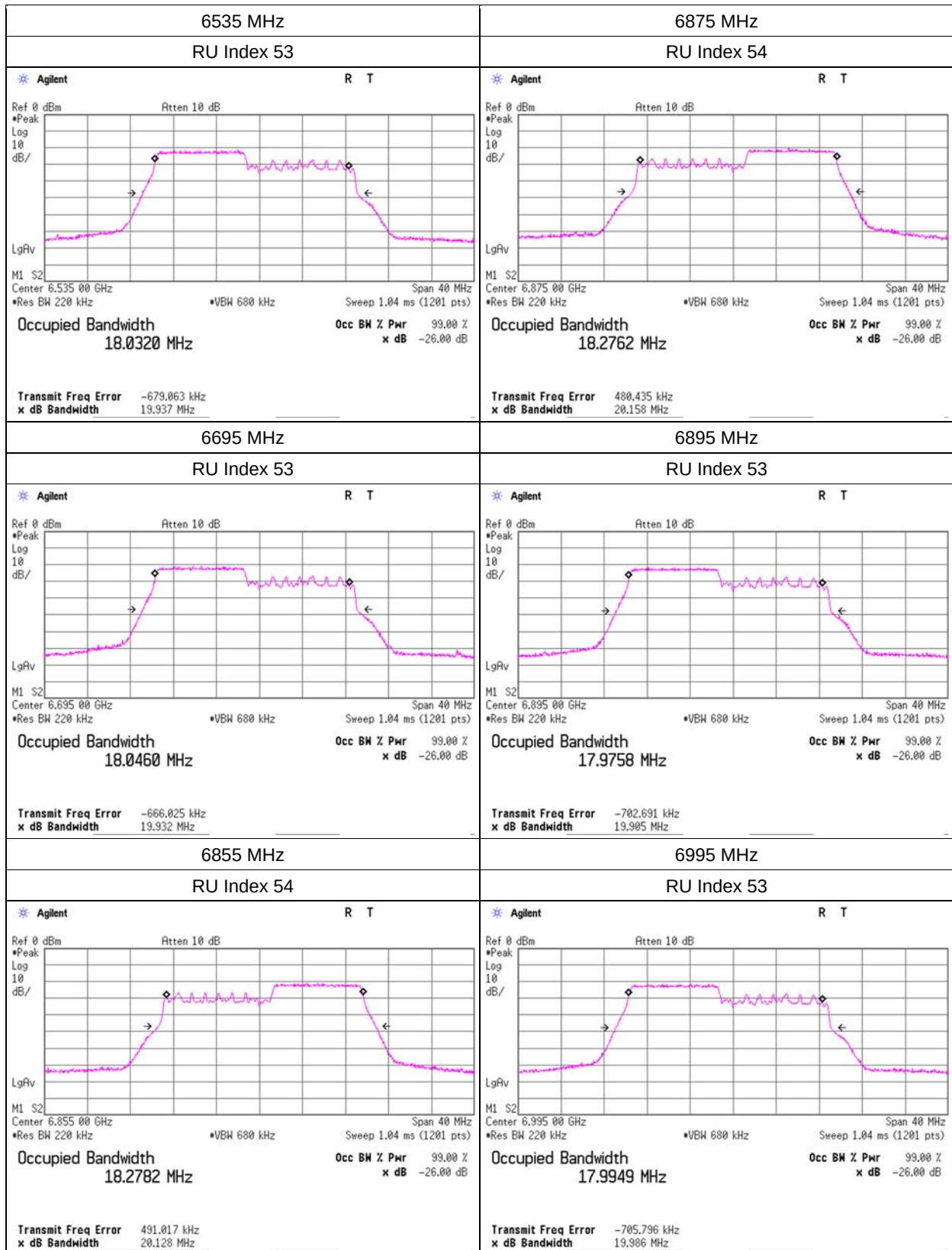
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



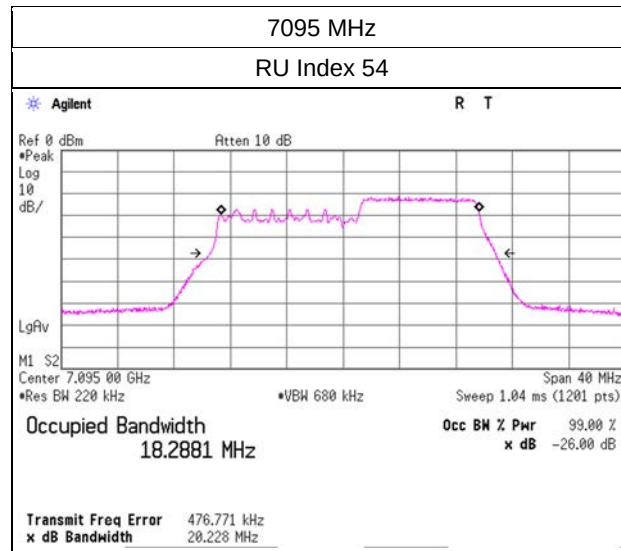
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



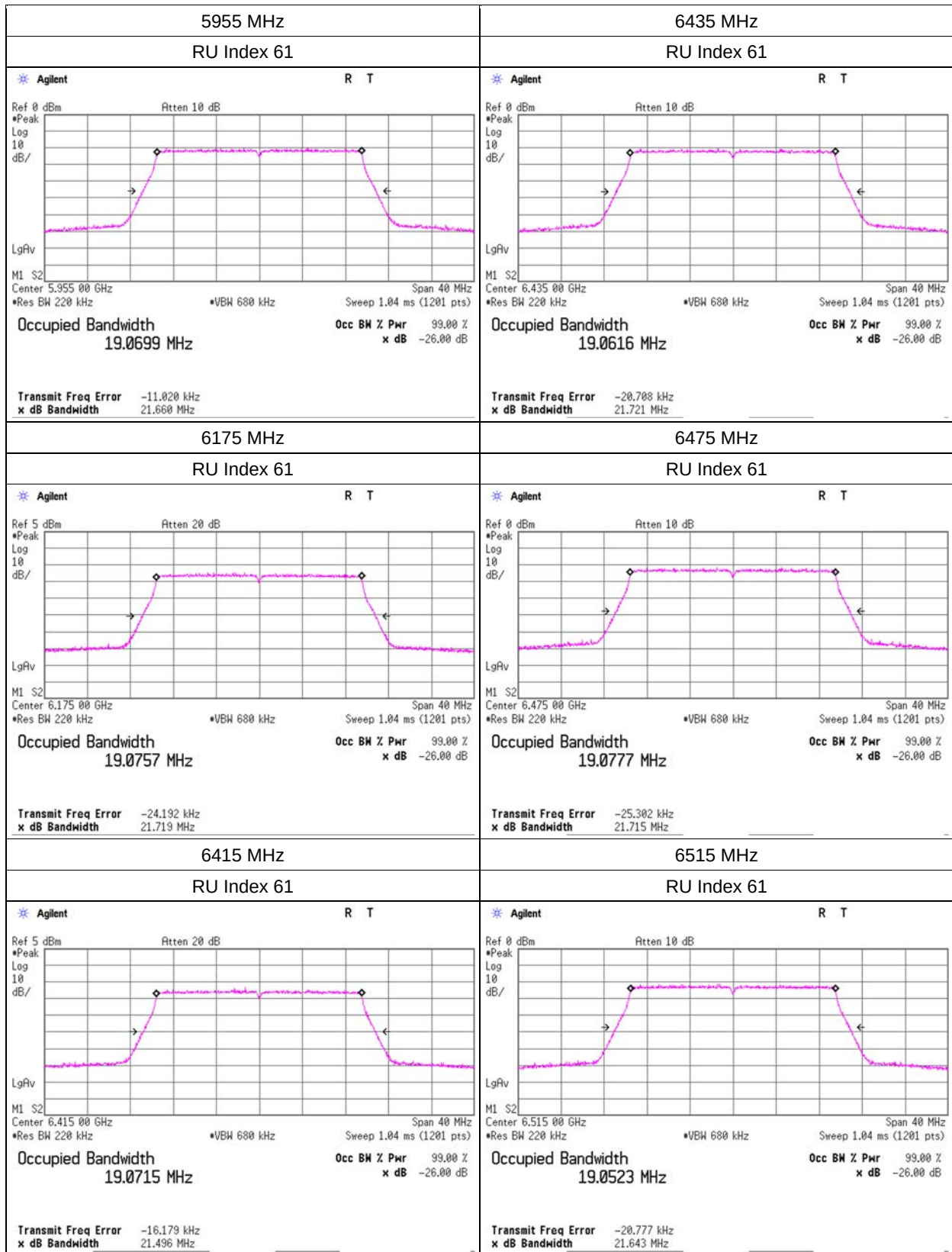
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



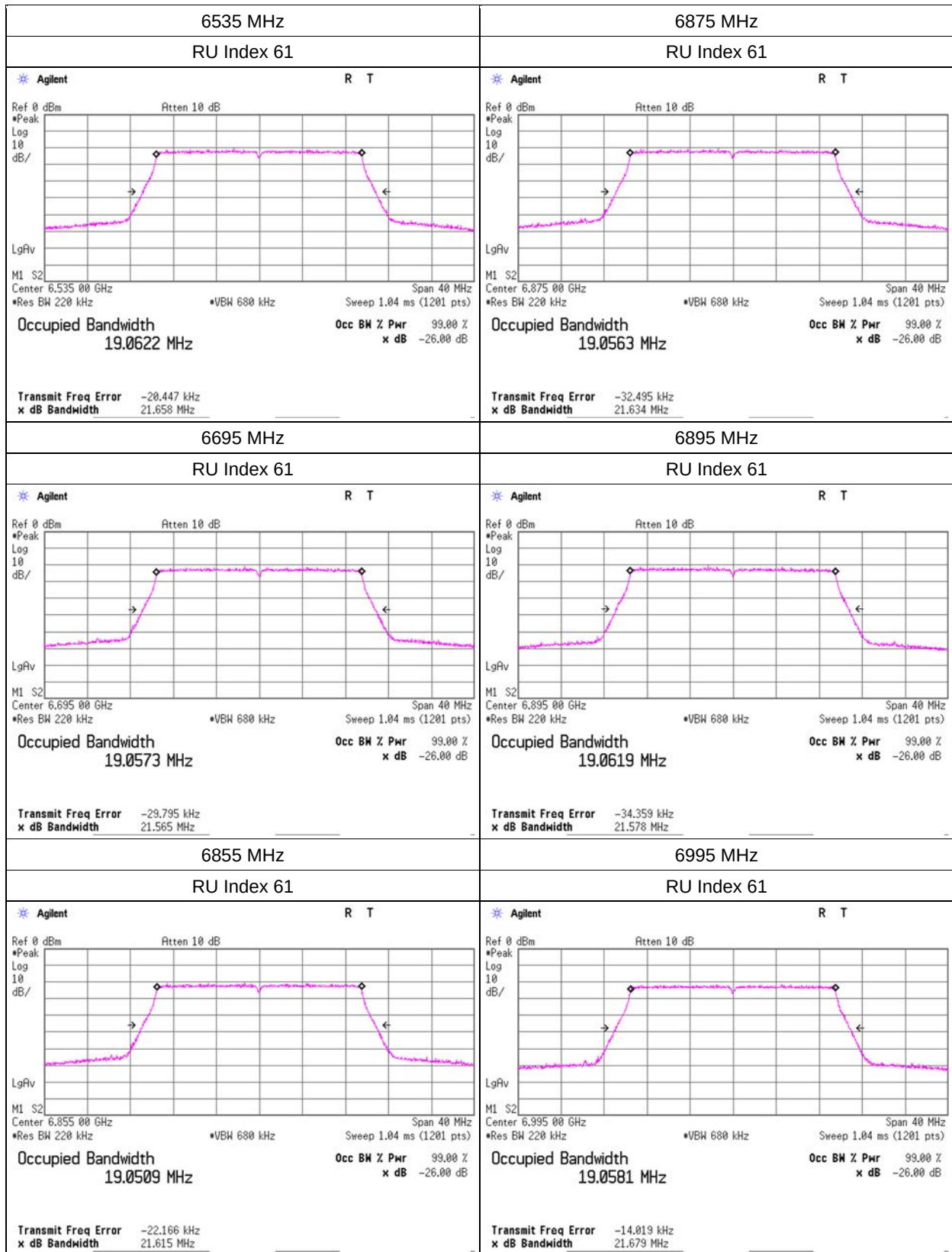
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



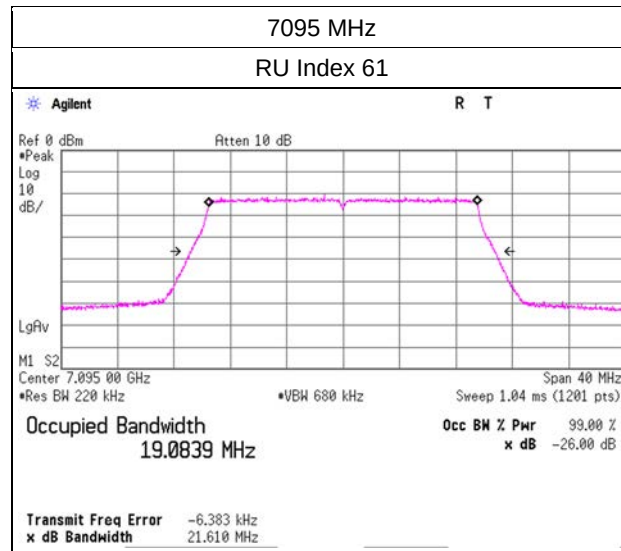
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



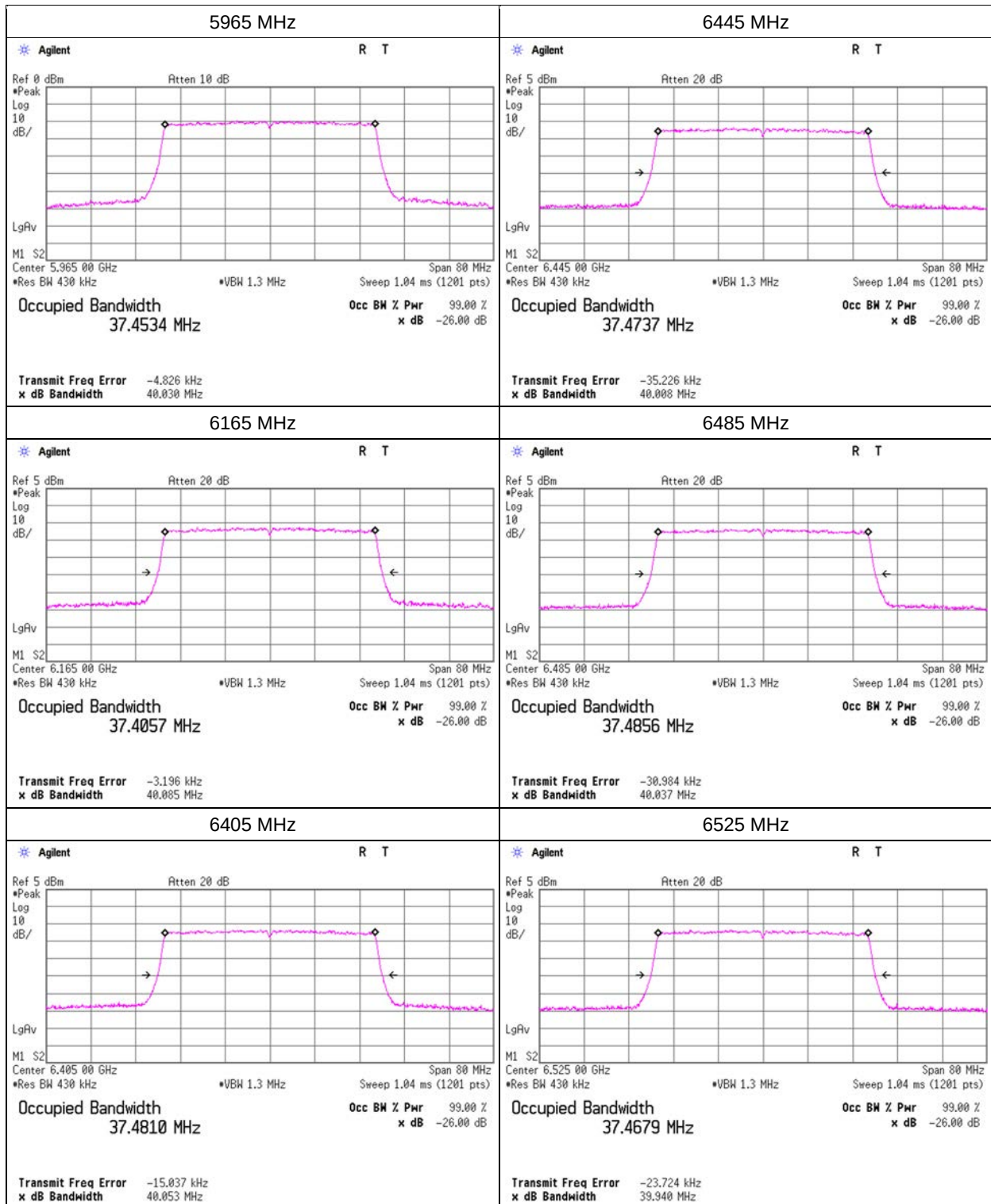
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



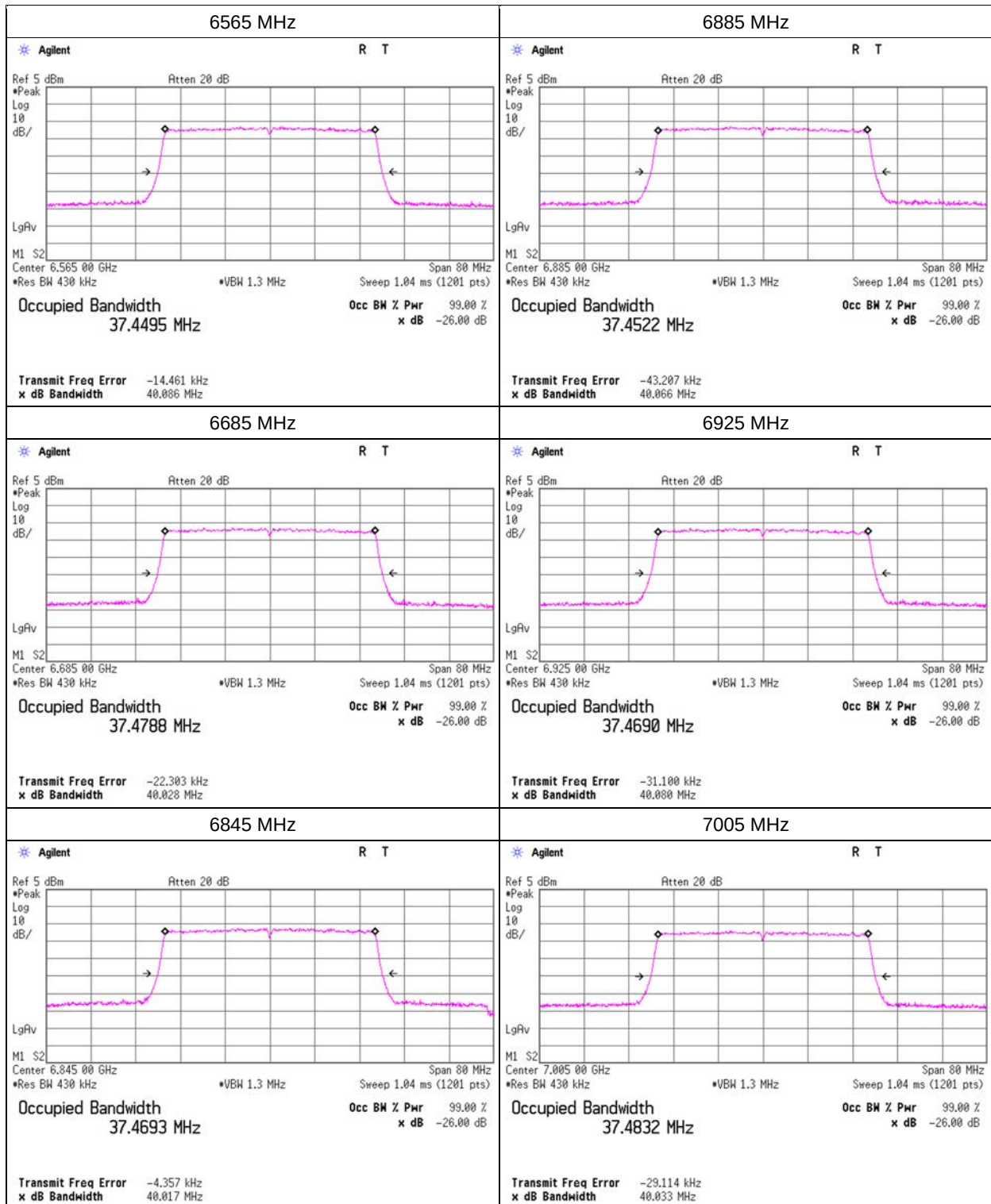
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDM)



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDM)



7085 MHz

Agilent R T

Ref 5 dBm

Atten 20 dB

*Peak

Log

10

dB/

LgAv

M1 S2

Center 7.085 00 MHz

*Res BW 430 kHz

*VBW 1.3 MHz

Span 80 MHz

Sweep 1.04 ms (1201 pts)

Occupied Bandwidth

37.4719 MHz

Occ BW % Pwr 99.00 %

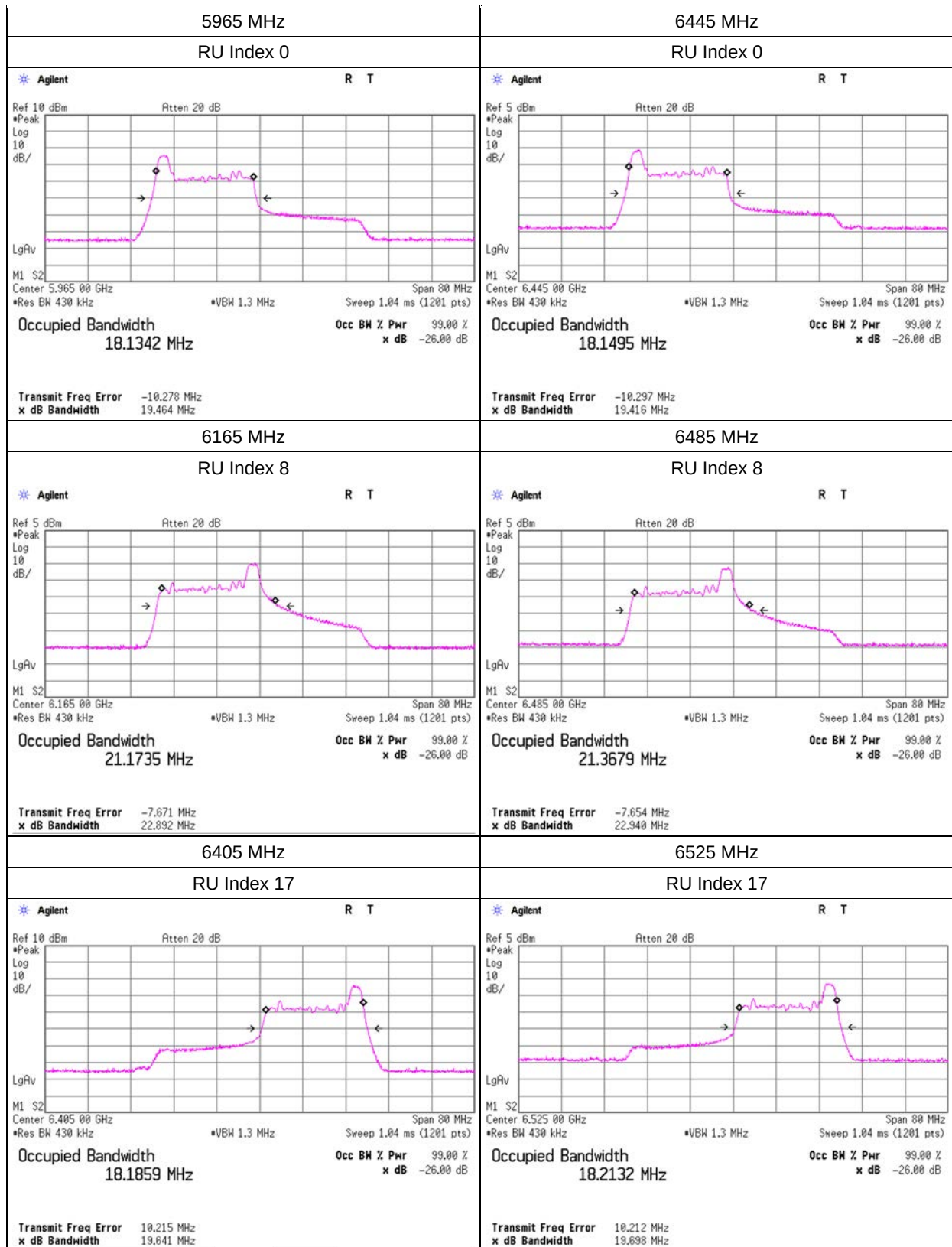
x dB -26.00 dB

Transmit Freq Error -6.695 kHz

x dB Bandwidth 33.995 MHz

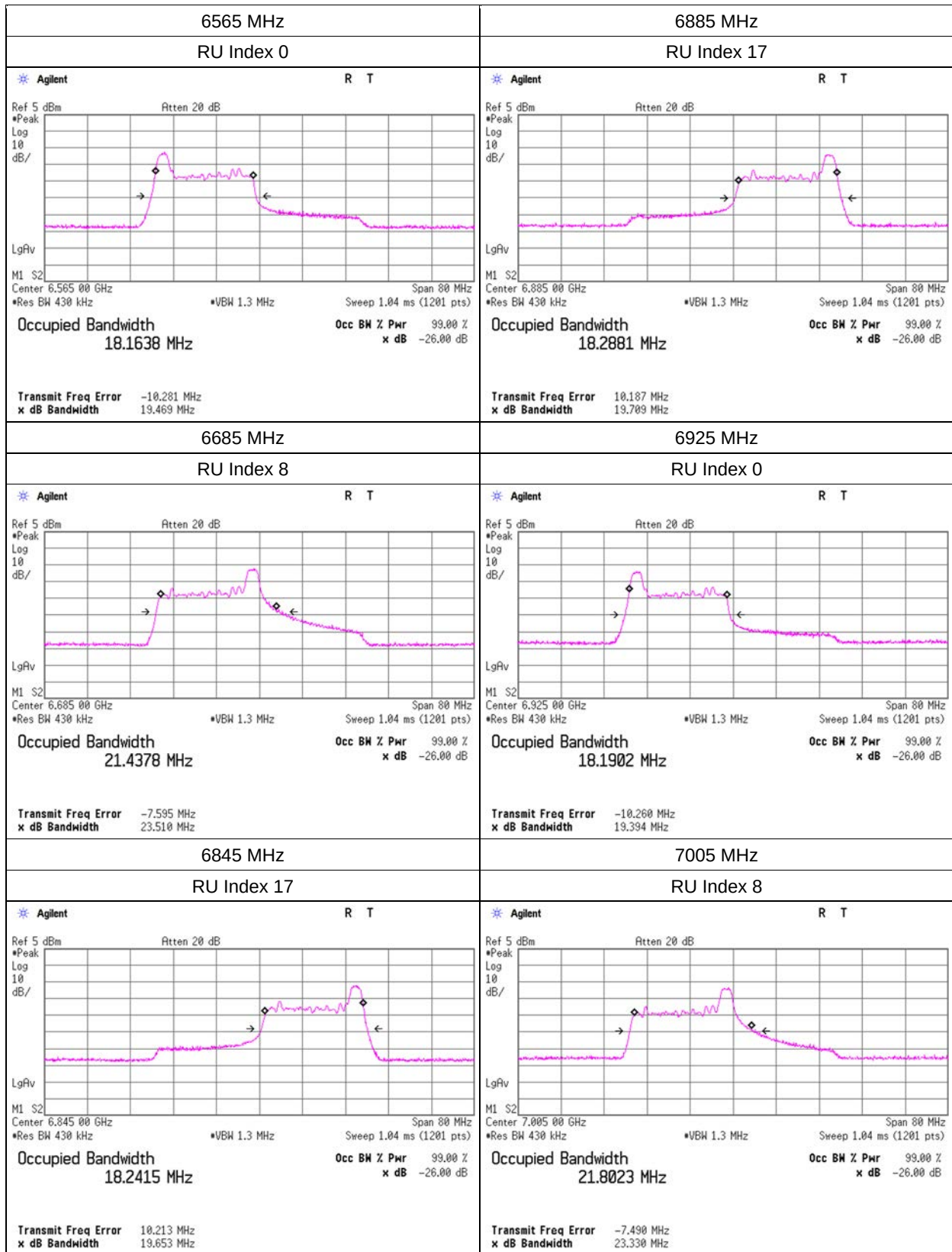
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 26-tone RU



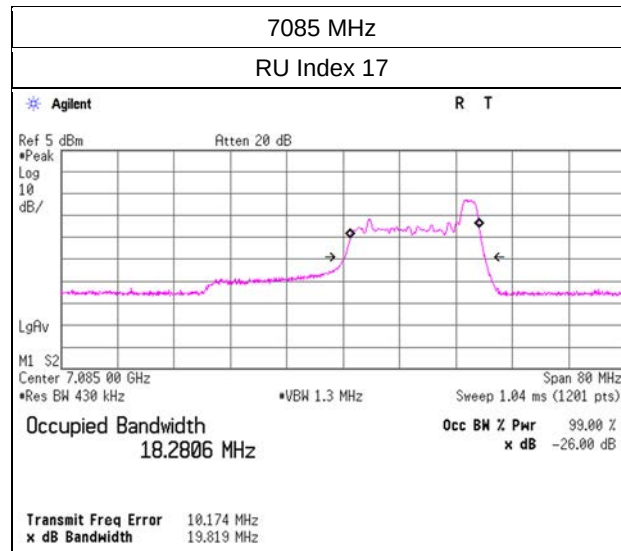
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 26-tone RU



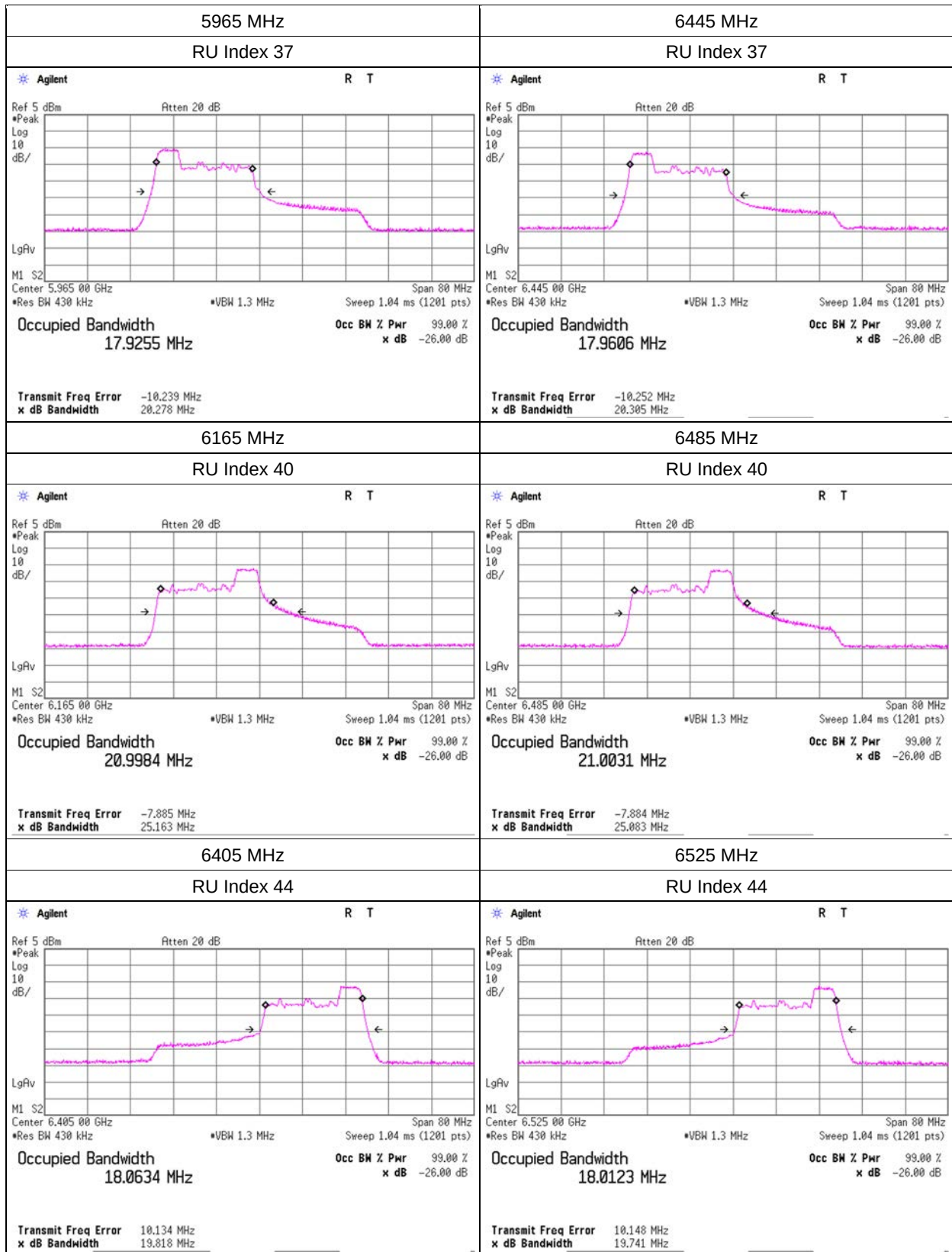
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 26-tone RU



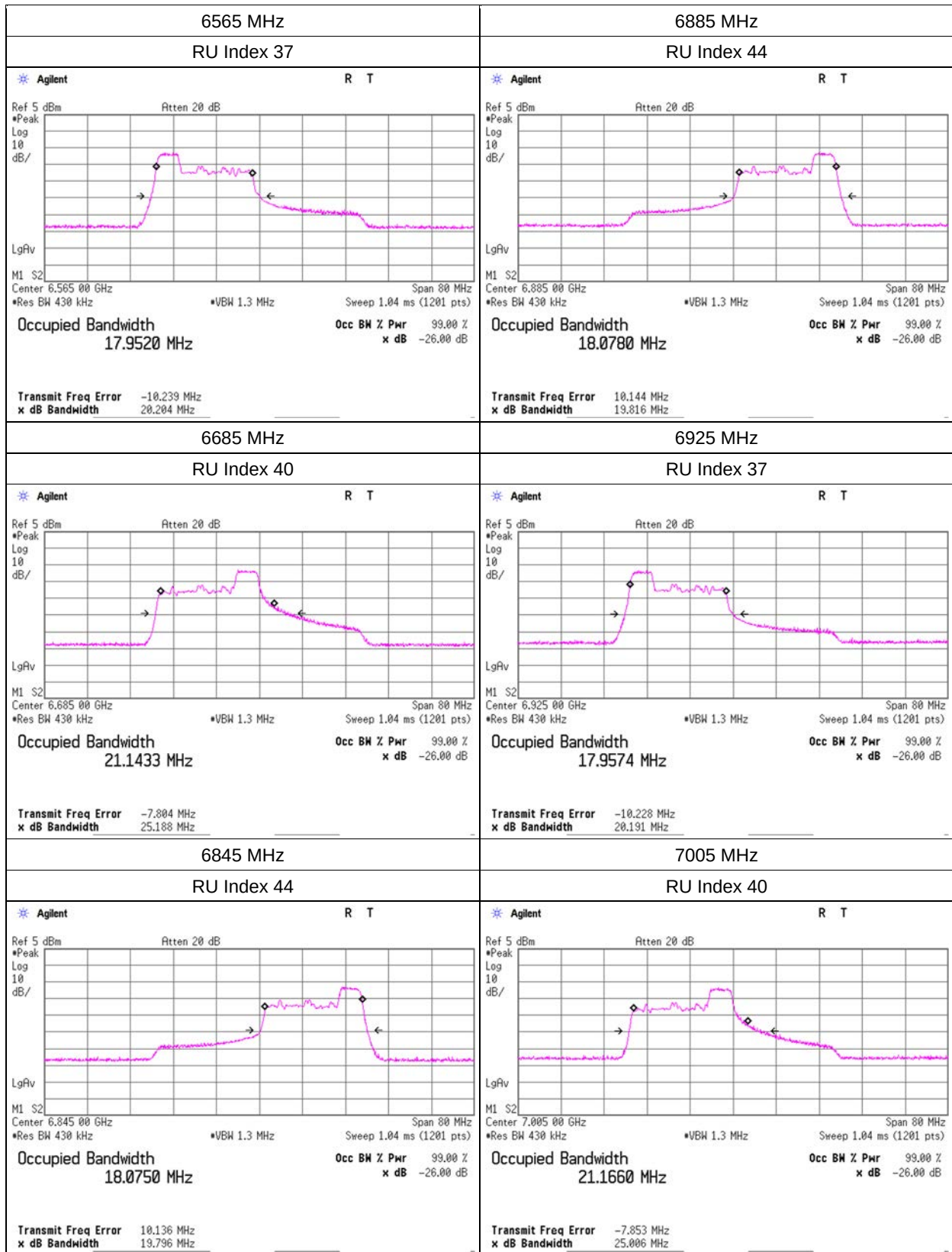
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 52-tone RU



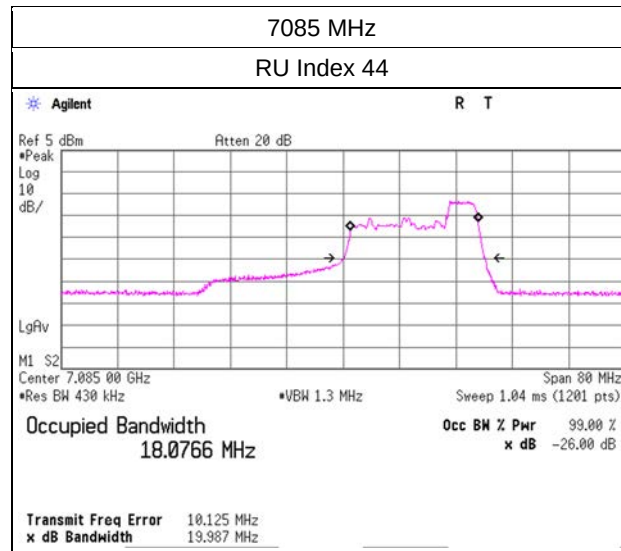
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 52-tone RU



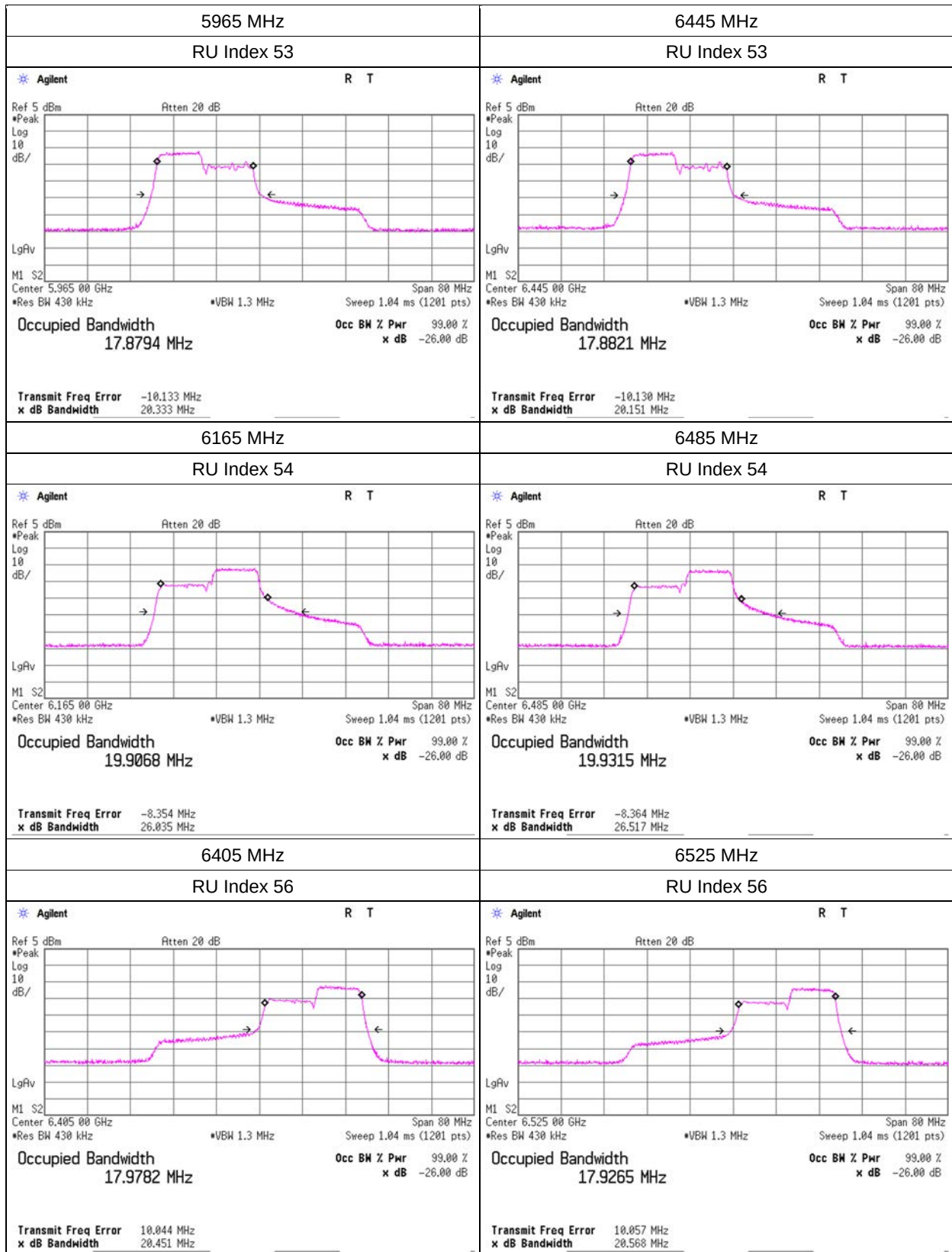
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 52-tone RU



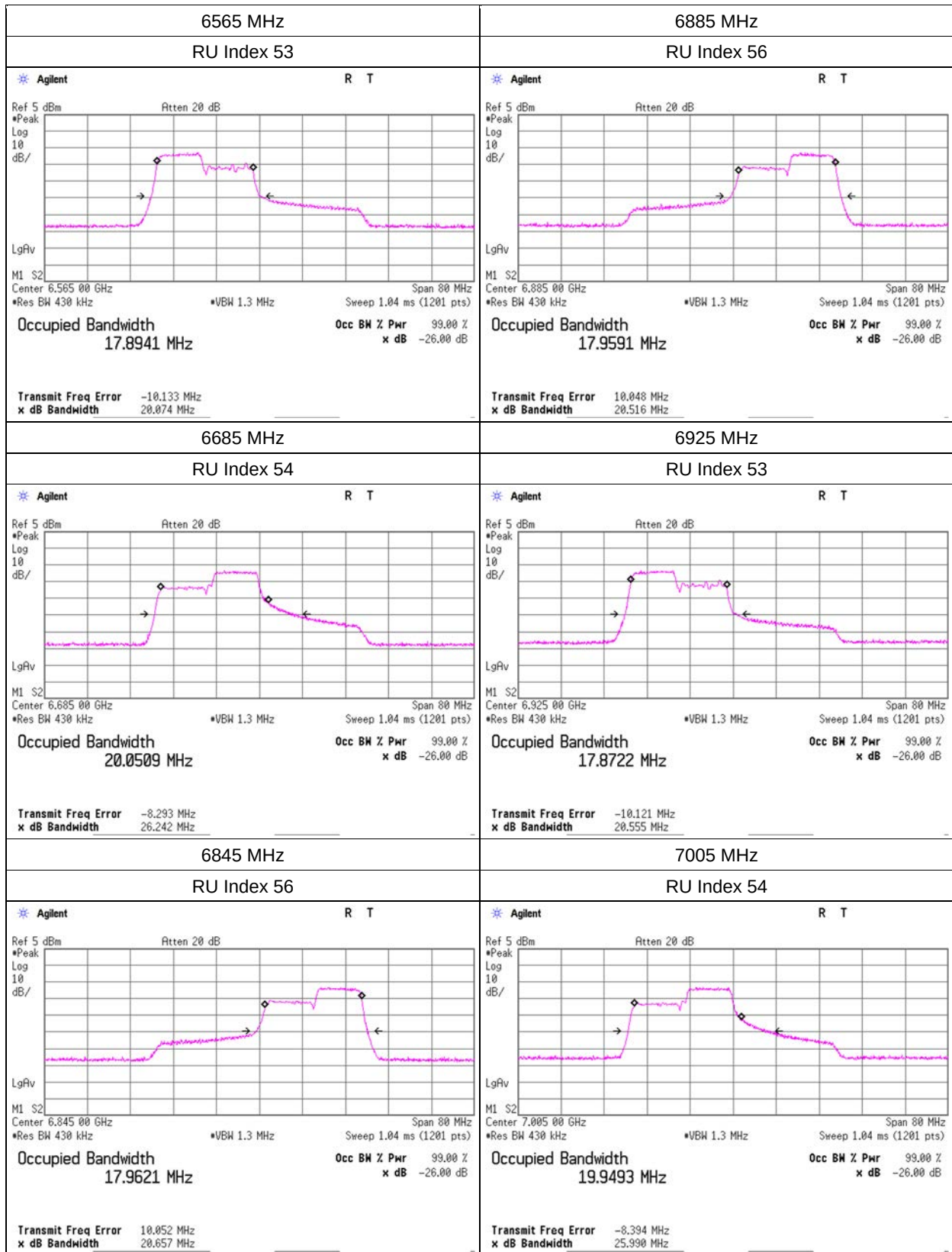
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 106-tone RU



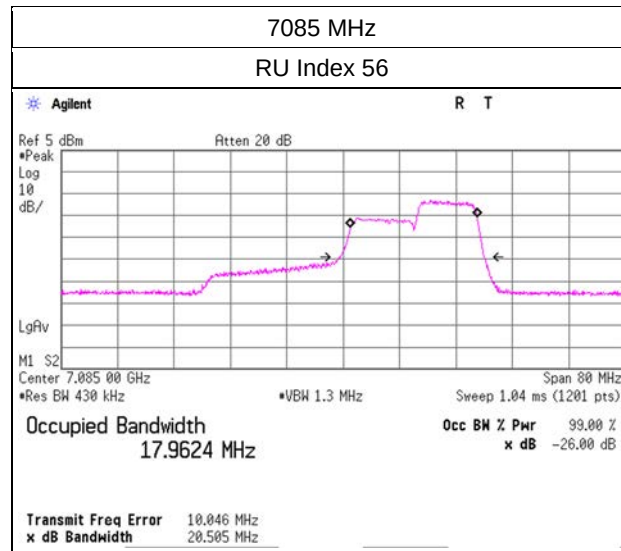
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 106-tone RU



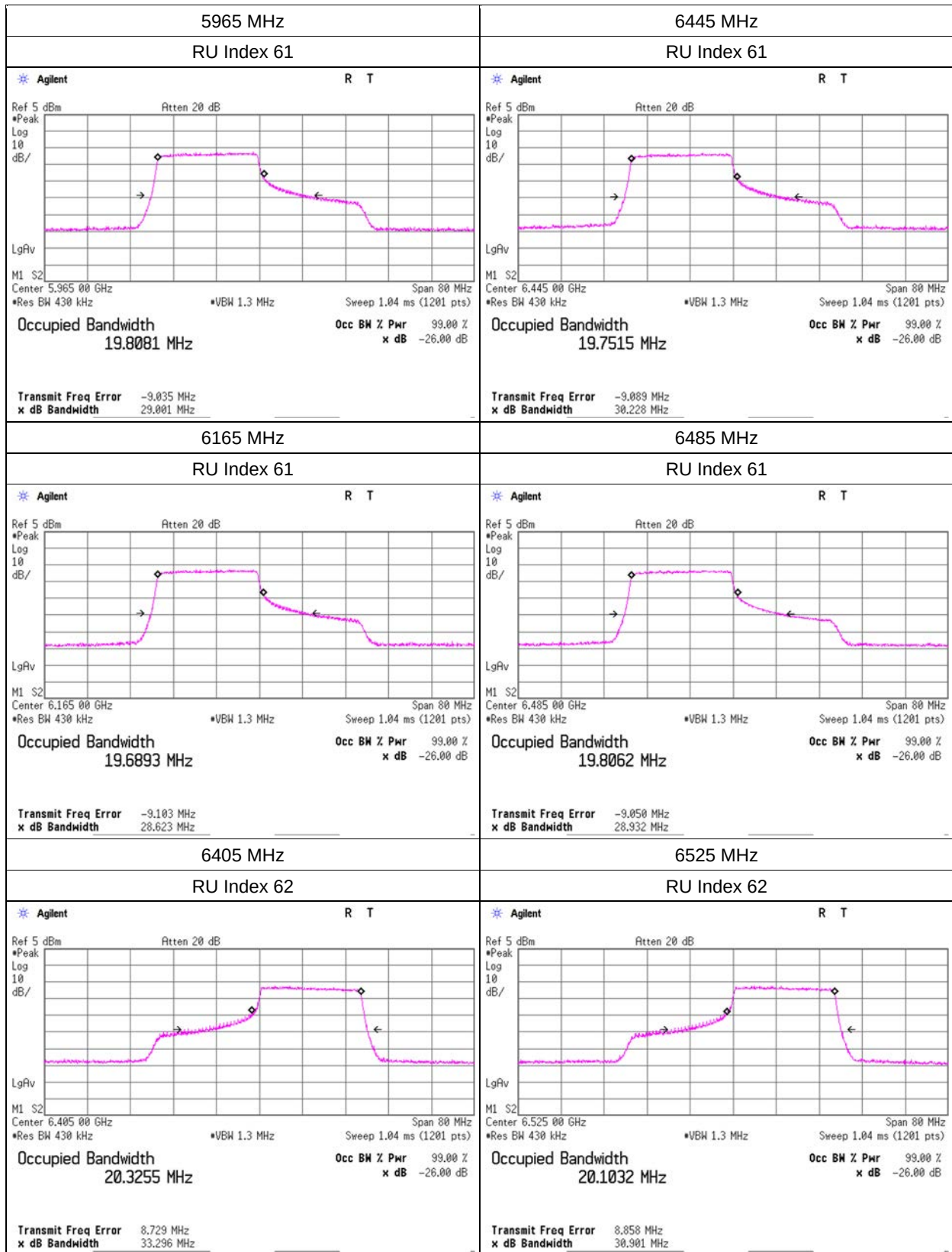
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 106-tone RU



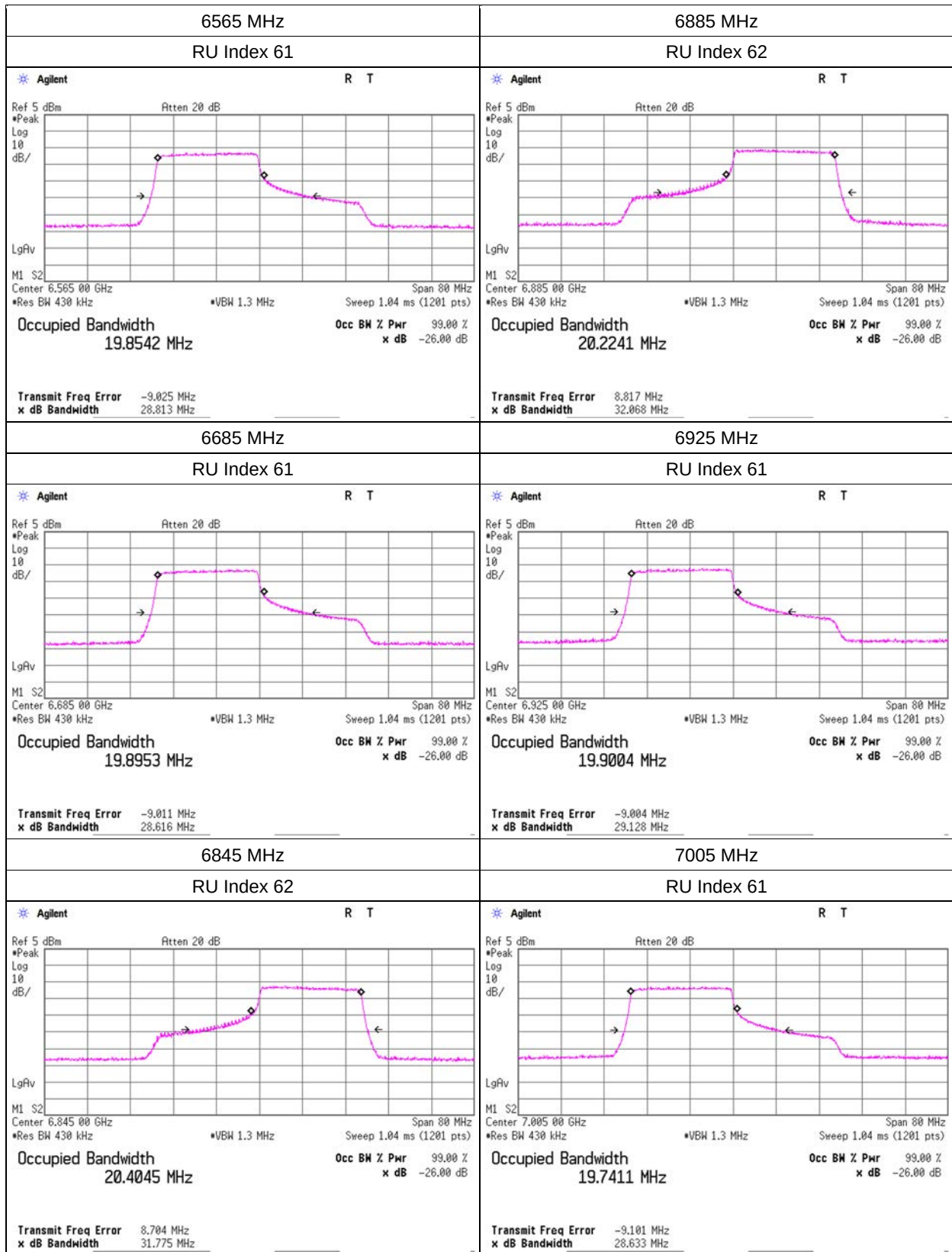
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 242-tone RU



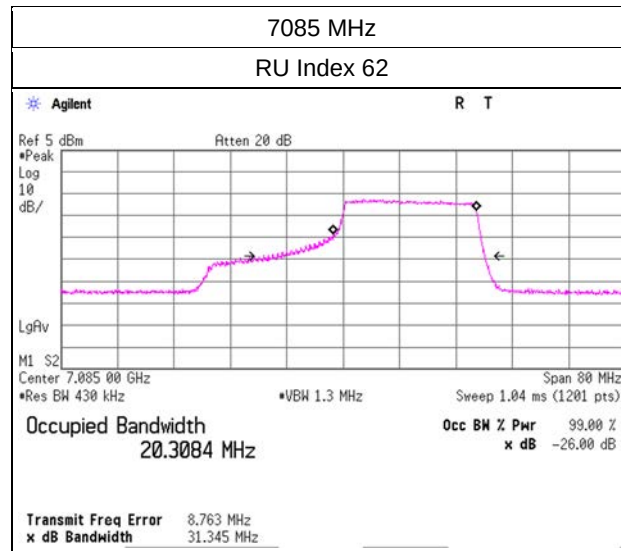
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 242-tone RU



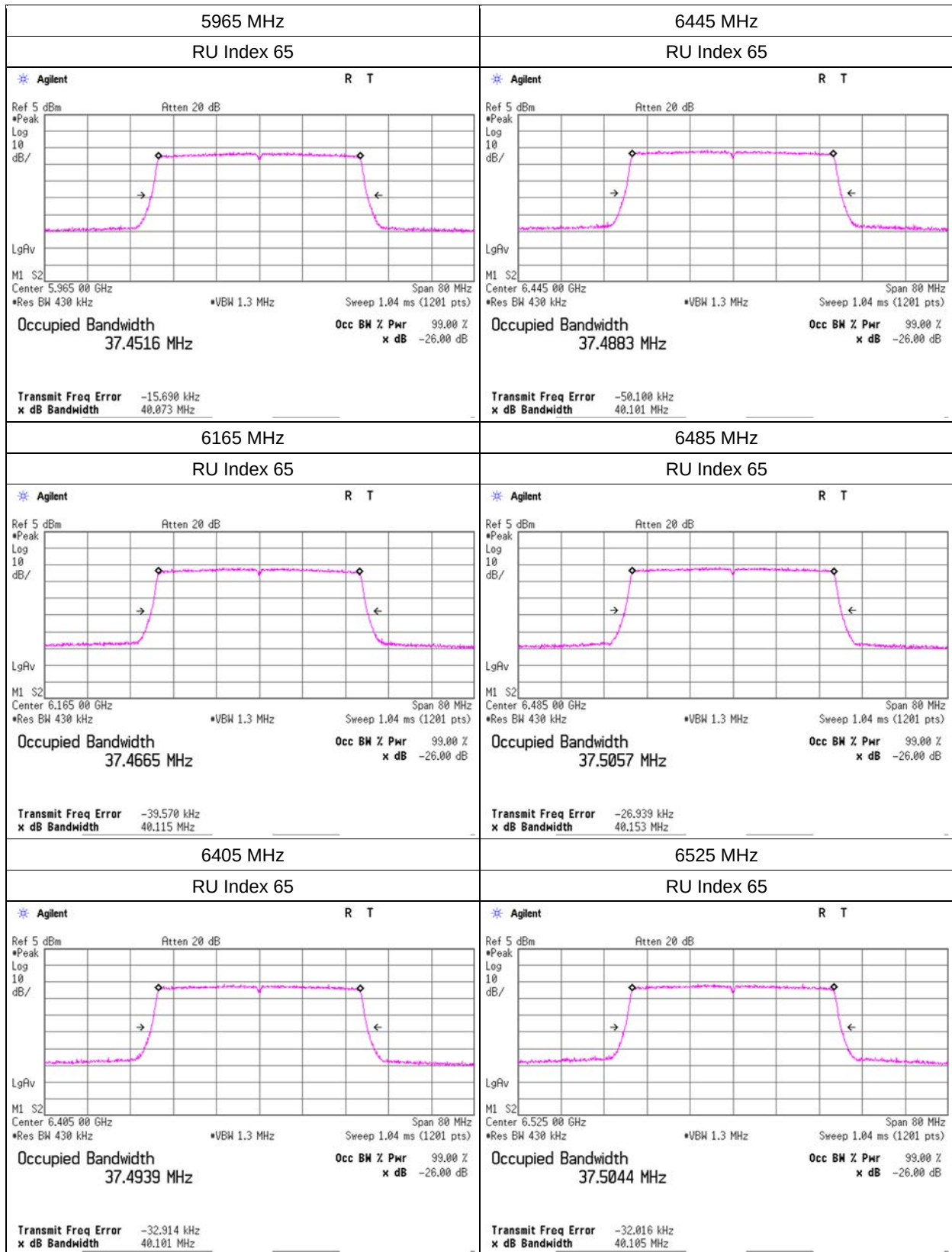
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 242-tone RU



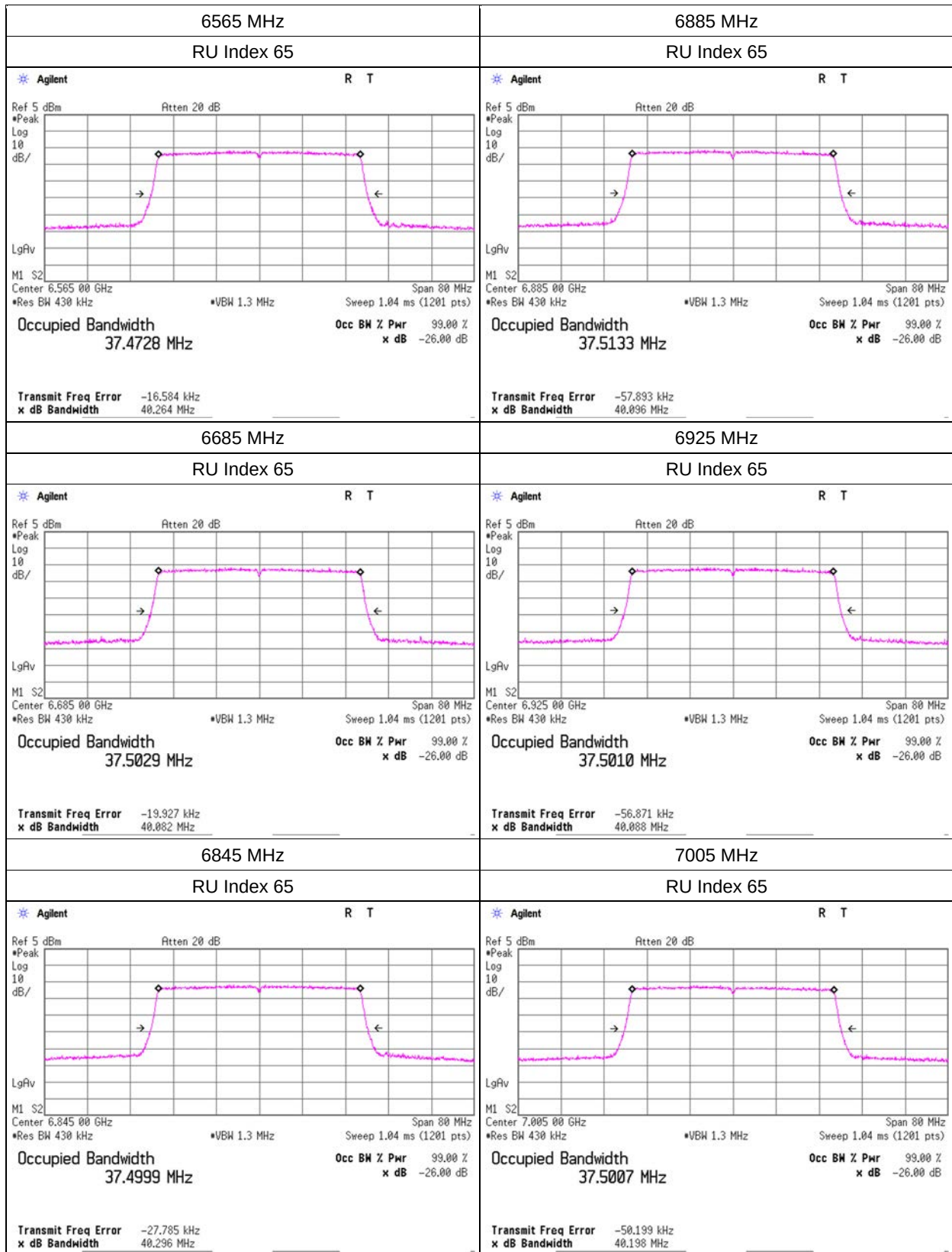
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 484-tone RU



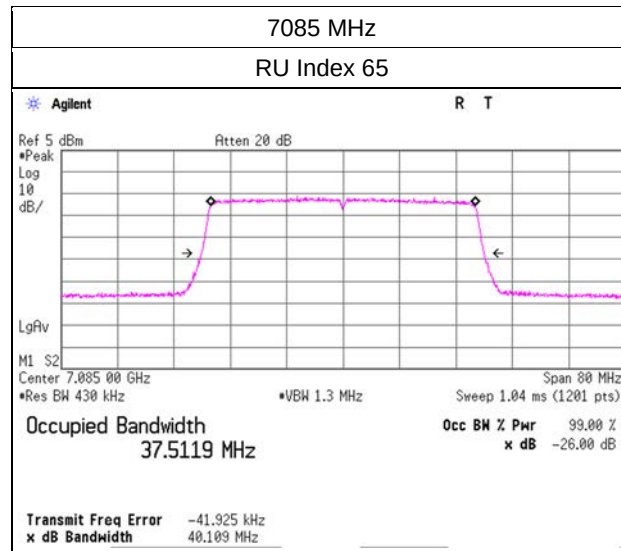
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 484-tone RU



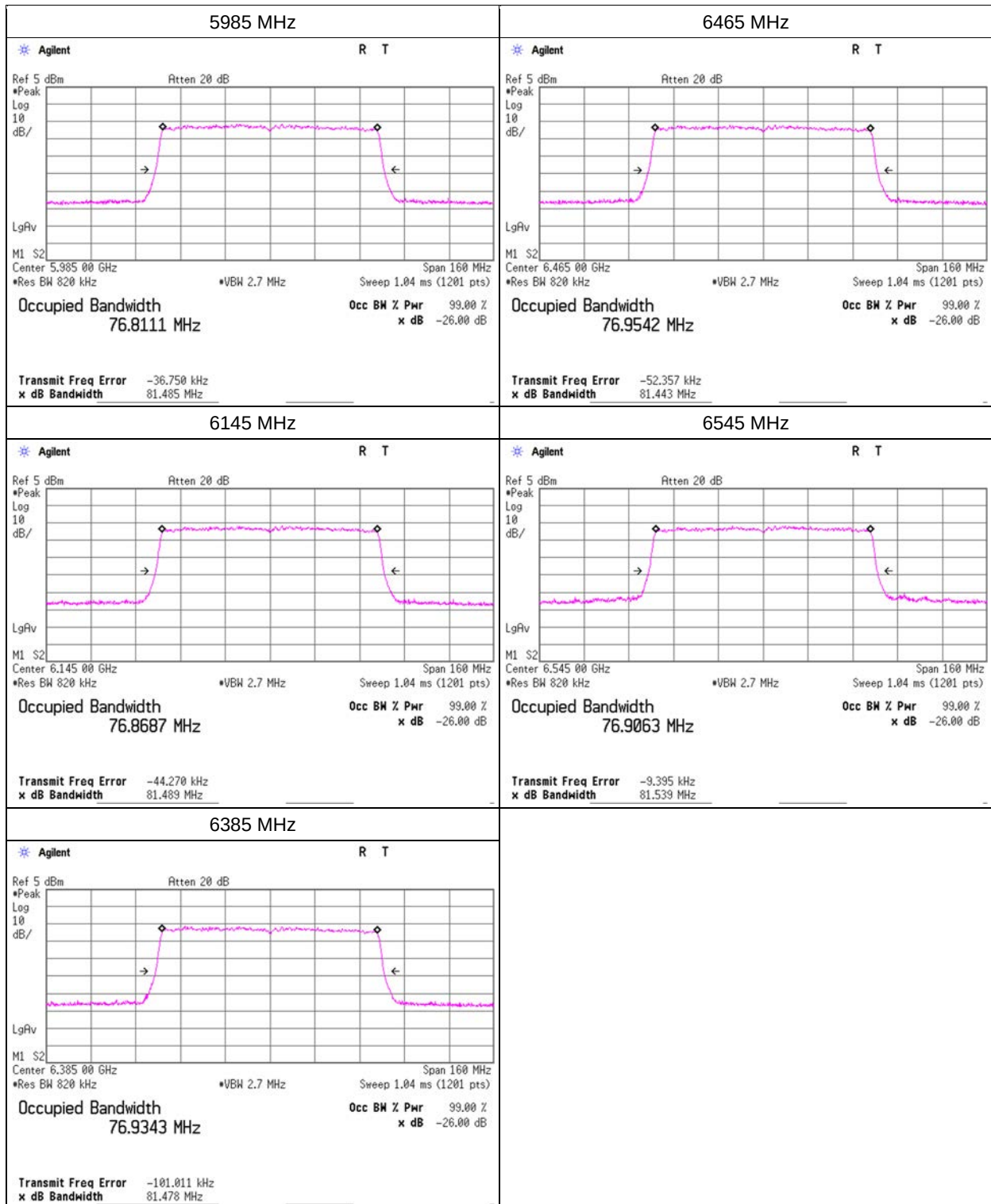
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-40(OFDMA), 484-tone RU



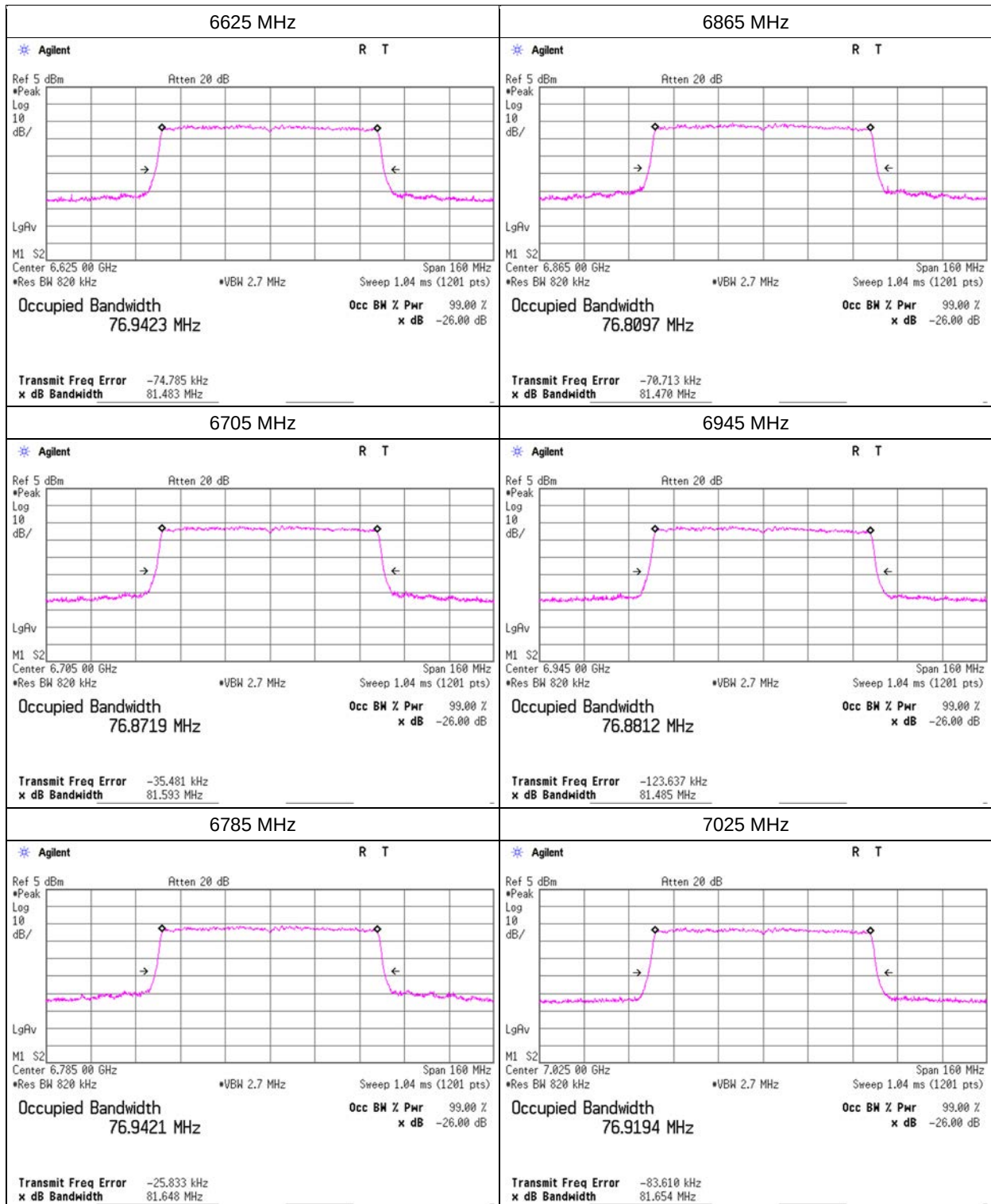
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDM)



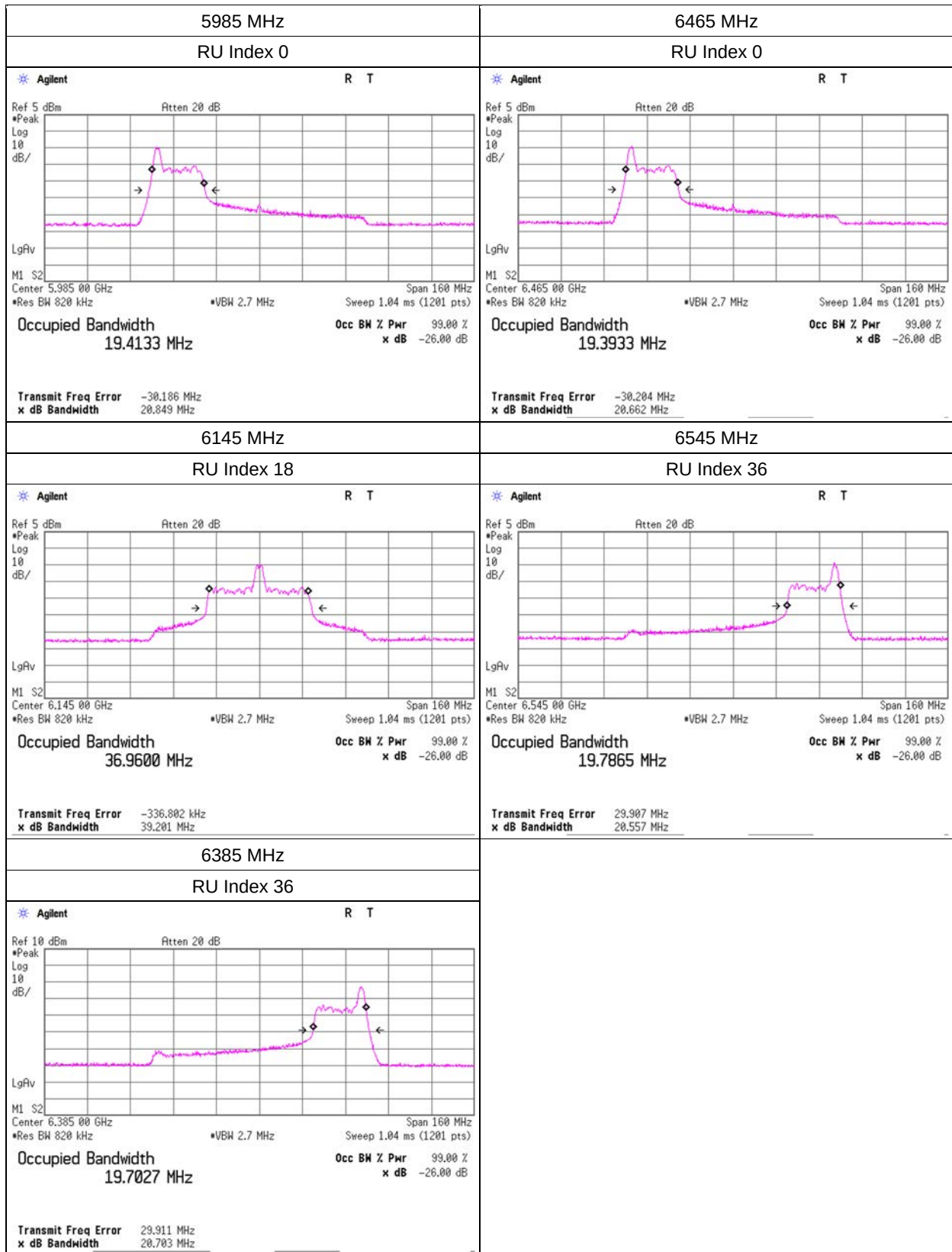
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDM)



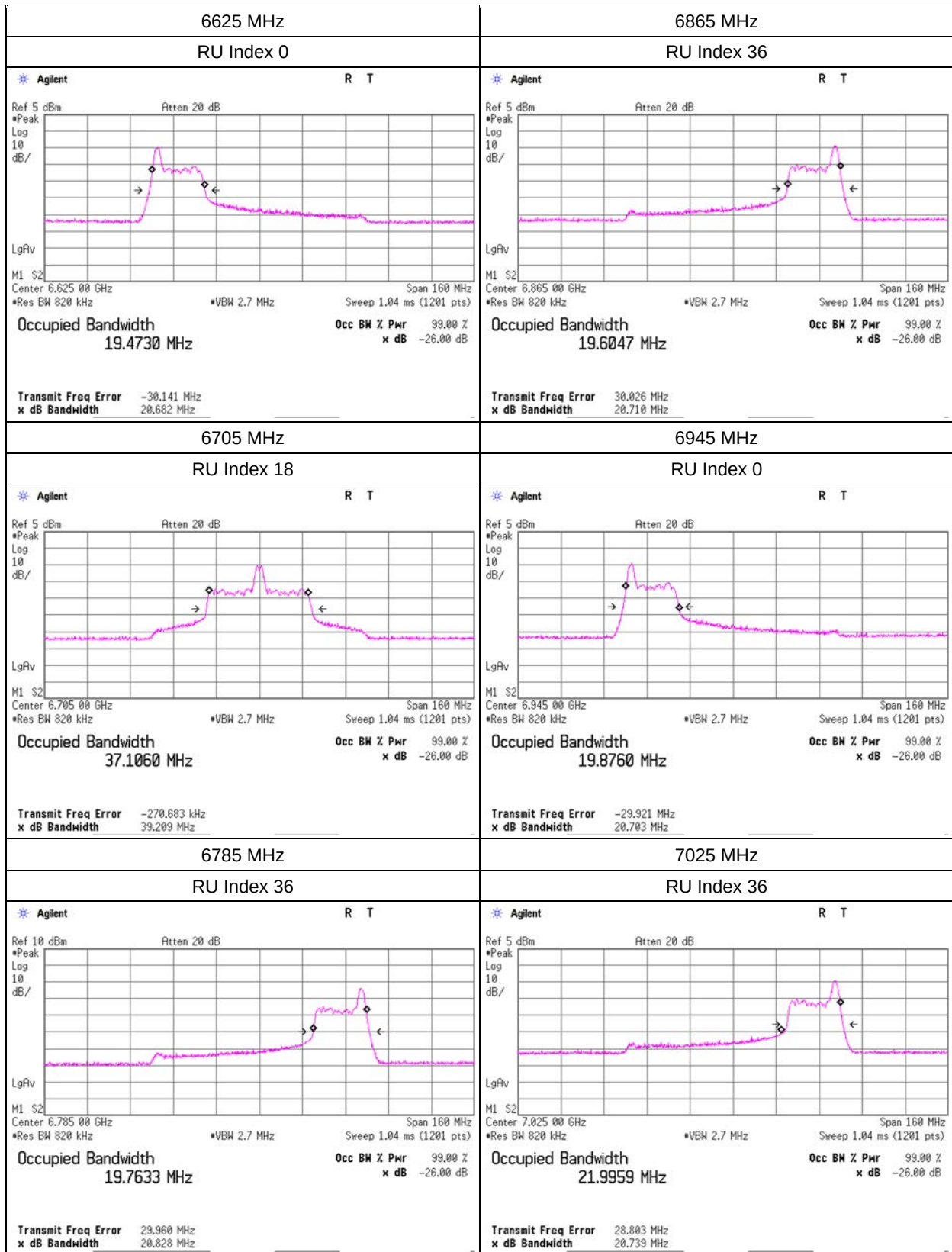
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDMA), 26-tone RU



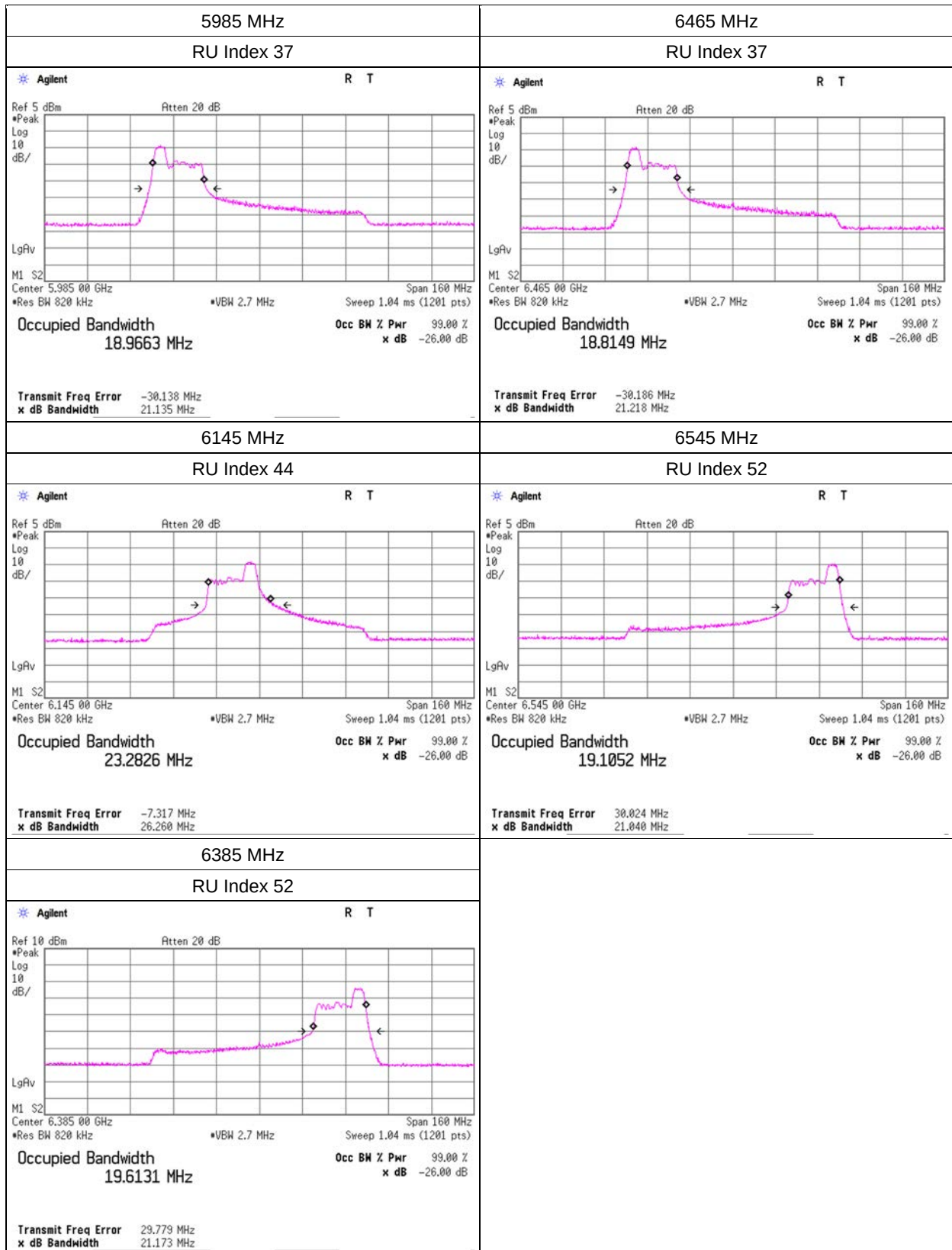
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

11ax-80(OFDMA), 26-tone RU



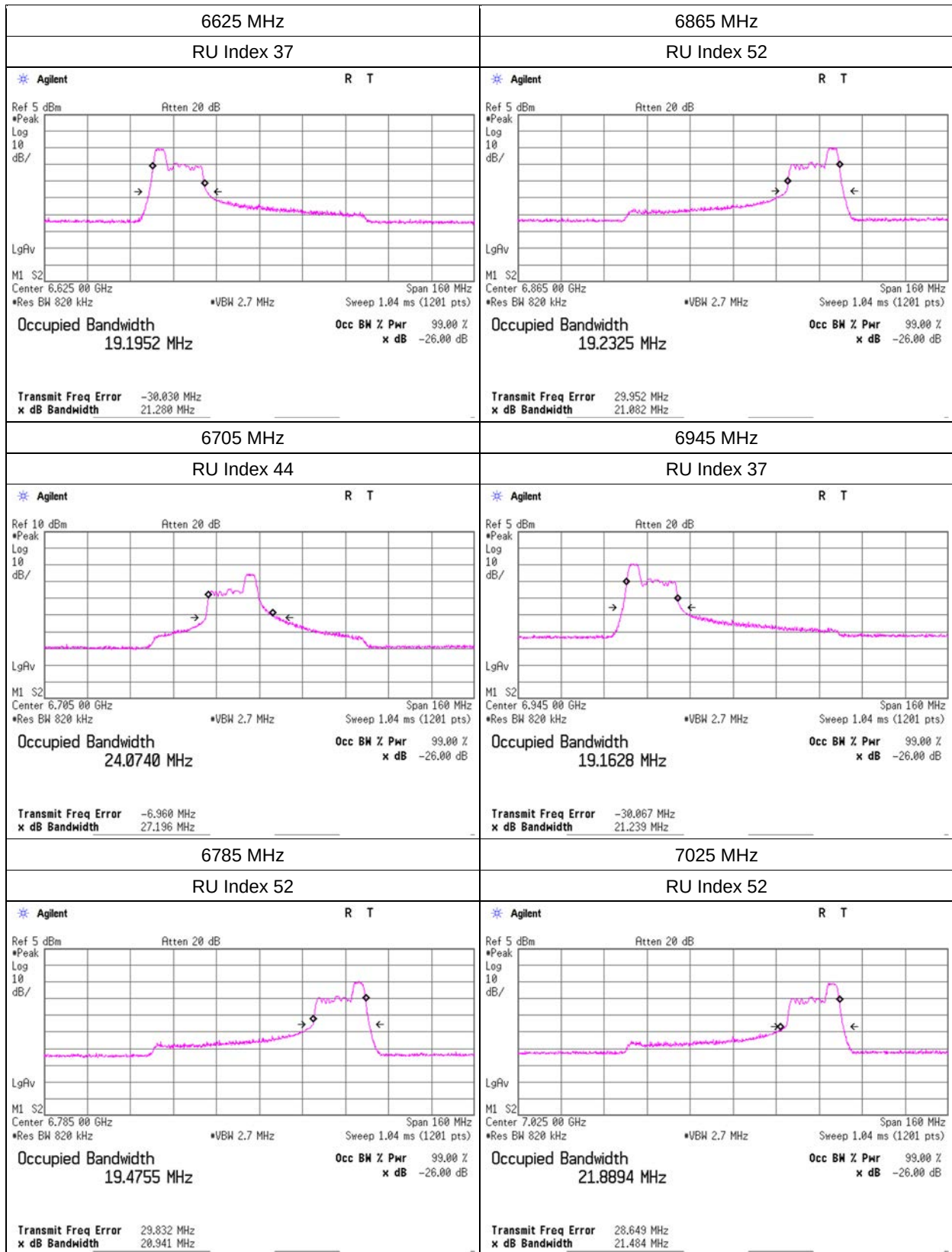
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



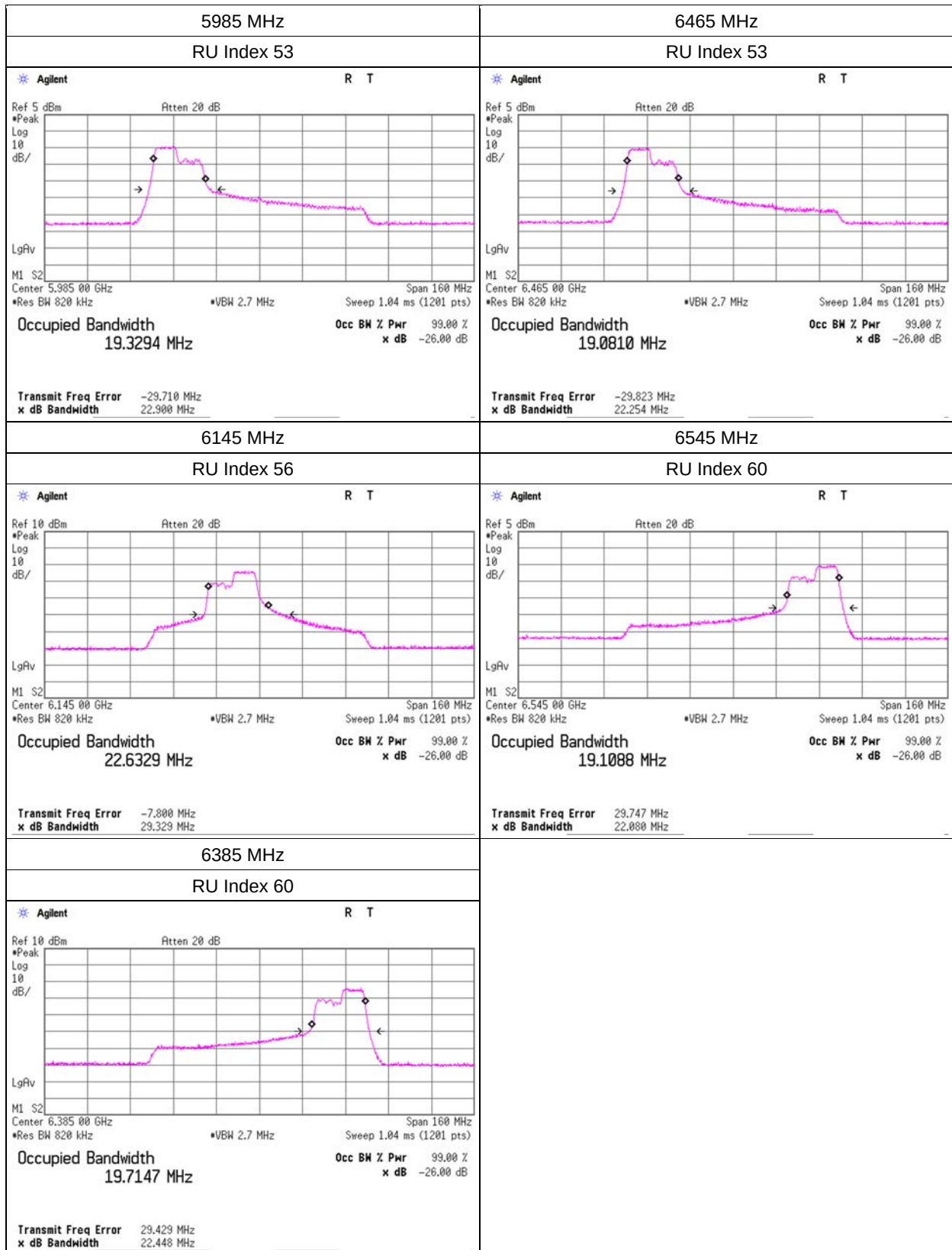
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



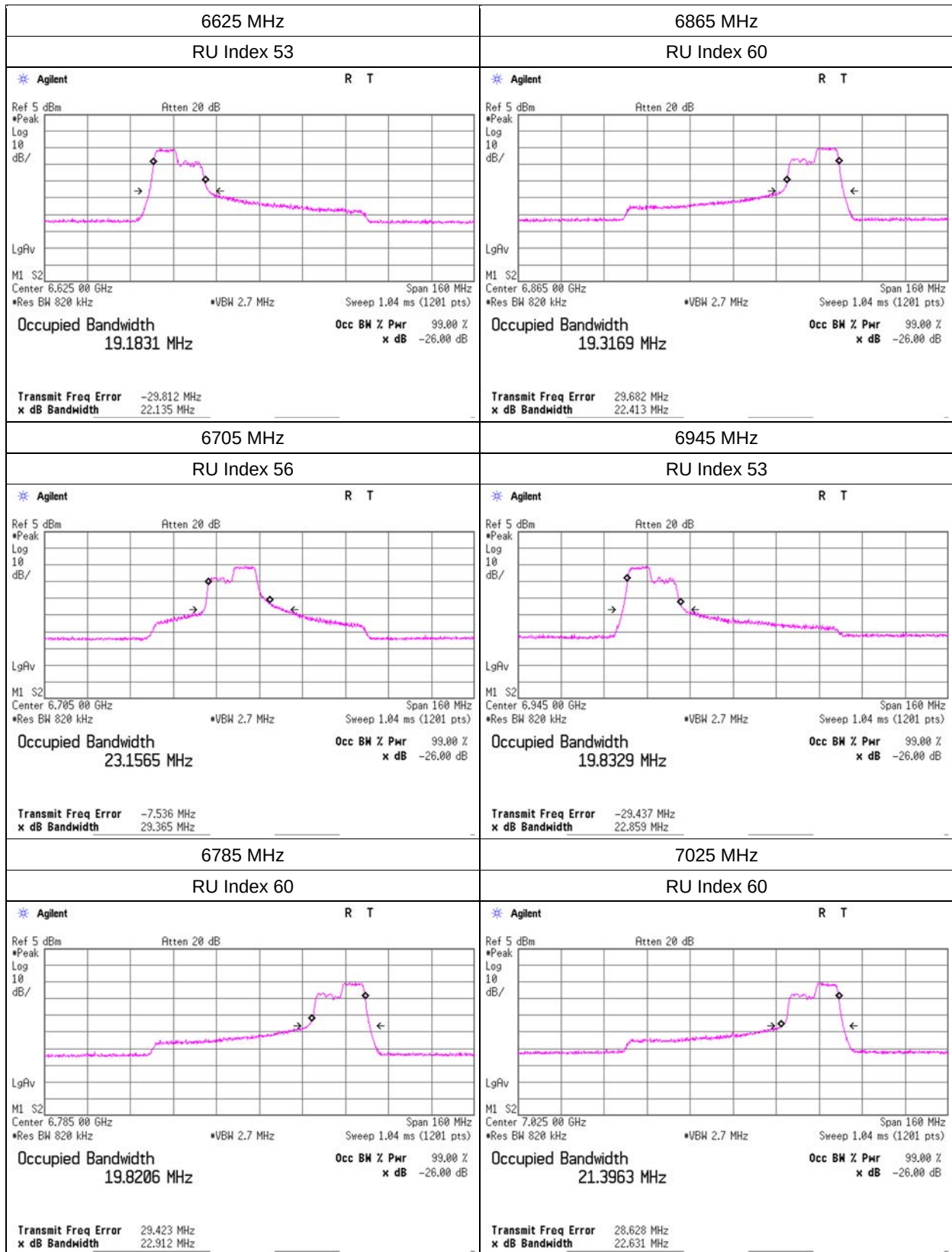
26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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



26 dB Emission Bandwidth and 99 % Occupied Bandwidth

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

