

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBBUI-WTW-P23070201-6

FCC ID: TX2-RTL8922AE

Product: 11be RTL8922AE Combo module

Brand: REALTEK

Model No.: RTL8922AE

Received Date: 2023/6/27

Test Date: 2023/8/1 ~ 2023/10/25

Issued Date: 2023/12/1

Applicant: Realtek Semiconductor Corp.

Address: No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

FCC Registration / 788550 / TW0003

Designation Number: 281270 / TW0032

Approved by: Jeremy Lin , **Date:** 2023/12/1
Jeremy Lin / Project Engineer

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Prepared by : Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBUI-WTW-P23070201-6	Original Release	2023/12/1

1 Certificate

Product: 11be RTL8922AE Combo module

Brand: REALTEK

Test Model: RTL8922AE

Sample Status: Engineering sample

Applicant: Realtek Semiconductor Corp.

Test Date: 2023/8/1 ~ 2023/10/25

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure:

KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(8)	Maximum RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(8)	Maximum Power Spectral Density	Pass	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth	Pass	Meet the requirement of limit.
15.407(a)(10)	Occupied Bandwidth	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -9.31 dB at 0.42353 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.8 dB at 298.69 and 299.66 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.5 dB at 5925.00 MHz
15.407(b)(7)	In-Band Emission Mask	Pass	Meet the requirement of limit.
15.407(d)(6)	Contention-based Protocol	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Occupied Bandwidth	-	491.896 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	11be RTL8922AE Combo module
Brand	REALTEK
Test Model	RTL8922AE
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11ax: up to 2401.9Mbps 802.11be: up to 2882.4Mbps
Operating Frequency	5.955 GHz ~ 6.415 GHz 6.435 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz
Number of Channel	802.11a, 802.11ax (HE20), 802.11be (EHT20):59 802.11ax (HE40), 802.11be (EHT40):29 802.11ax (HE80), 802.11be (EHT80):14 802.11ax (HE160), 802.11be (EHT160):7
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 2 * 996-tone
Output Power	(under control of low power indoor AP) 5.955 GHz ~ 6.415 GHz : EIRP: 121.899 mW (20.86 dBm) 6.435 GHz ~ 6.525 GHz : EIRP: 117.219 mW (20.69 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 115.550 mW (20.63 dBm) 6.875 GHz ~ 7.115 GHz : EIRP: 120.780 mW (20.82 dBm) (under control of standard power AP) 5.955 GHz ~ 6.415 GHz : EIRP: 970.301 mW (29.87 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 978.377 mW (29.91 dBm)
Equipment Class	6CD: 15E 6 GHz Dual client

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission condition.

1TX		
Condition	Technology	
	S0 (Chain 1)	S1 (Chain 0)
1	WLAN (5 GHz)_H	Bluetooth + WLAN (5 GHz)_L
2	WLAN (5 GHz)_L	Bluetooth + WLAN (5 GHz)_H
3	WLAN (5 GHz)_L	Bluetooth + WLAN (6 GHz)
4	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_L
5	WLAN (6 GHz)	Bluetooth + WLAN (5 GHz)_H
6	WLAN (5 GHz)_H	Bluetooth + WLAN (6 GHz)
7	WLAN (2.4 GHz)	WLAN (5 GHz) Full
8	WLAN (2.4 GHz)	WLAN (6 GHz)
9	WLAN (5 GHz) Full	Bluetooth
10	WLAN (6 GHz)	Bluetooth
2TX		
1	WLAN (5 GHz)_L	WLAN (5 GHz)_L + Bluetooth
2	WLAN (5 GHz)_H	WLAN (5 GHz)_H + Bluetooth
3	WLAN (6 GHz)	WLAN (6 GHz) + Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Port No.	Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	1/2	Chain0/1	REALTEK	RTK-ANT-0022	3.4	2.4~2.4835	PIFA	IPEX, MHF4	300
					5	5.15~5.895			
					5	5.925~7.125			
2	1/2	Chain0/1	ARISTOTLE	RFA-57-JP805-4B-300	-1.87	5.15~5.895GHz	PIFA	IPEX, MHF4	300
					-1.88	5.925GHz~7.125GHz			

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

6 GHz Band				
Modulation Mode		TX Configuration	CDD Mode	Beamforming Mode
802.11a	SISO	1Tx Diversity	Not Support	Not Support
802.11ax (HE20)		1Tx Diversity	Not Support	Not Support
802.11ax (HE40)		1Tx Diversity	Not Support	Not Support
802.11ax (HE80)		1Tx Diversity	Not Support	Not Support
802.11ax (HE160)		1Tx Diversity	Not Support	Not Support
802.11be (EHT20)		1Tx Diversity	Not Support	Not Support
802.11be (EHT40)		1Tx Diversity	Not Support	Not Support
802.11be (EHT80)		1Tx Diversity	Not Support	Not Support
802.11be (EHT160)		1Tx Diversity	Not Support	Not Support
802.11ax (RU26/52/106/242/484/996/996x2)		1Tx Diversity	Not Support	Not Support
802.11be (RU26/52/106/242/484/996/996x2)		1Tx Diversity	Not Support	Not Support
802.11a		MIMO	2TX	Support NSS1 / NSS2
802.11ax (HE20)	2TX		Support NSS2*	Not Support
802.11ax (HE40)	2TX		Support NSS2*	Not Support
802.11ax (HE80)	2TX		Support NSS2*	Not Support
802.11ax (HE160)	2TX		Support NSS2*	Not Support
802.11be (EHT20)	2TX		Support NSS2*	Not Support
802.11be (EHT40)	2TX		Support NSS2*	Not Support
802.11be (EHT80)	2TX		Support NSS2*	Not Support
802.11be (EHT160)	2TX		Support NSS2*	Not Support
802.11ax (RU26/52/106/242/484/996/996x2)	2TX		Support NSS2*	Not Support
802.11be (RU26/52/106/242/484/996/996x2)	2TX		Support NSS2*	Not Support

Note:

1. The modulation and bandwidth are similar for 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) therefore the manufacturer will control the power for 802.11ax mode is same as the 802.11be mode or more lower than it and investigated worst case to representative mode in test report.
2. *For 802.11ax and 802.11be, CDD mode only support NSS2.

3.3 Channel List

U-NII-5:

25 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2	5935 MHz	1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz	25	6075 MHz
29	6095 MHz	33	6115 MHz	37	6135 MHz	41	6155 MHz
45	6175 MHz	49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz	73	6315 MHz
77	6335 MHz	81	6355 MHz	85	6375 MHz	89	6395 MHz
93	6415 MHz						

12 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

U-NII-6: (under control of a low-power indoor access point only)

5 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

1 channel is provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
103	6465 MHz

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
*111	6505 MHz

U-NII-7:

17 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz						

8 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

5 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
*183	6865 MHz						

2 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	175	*6825 MHz

U-NII-8: (under control of a low-power indoor access point only)

13 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
185	6875 MHz	189	6895 MHz	193	6915 MHz	197	6935 MHz
201	6955 MHz	205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz	229	7095 MHz
233	7115 MHz						

6 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
187	6885 MHz	195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz				

2 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
207	6985 MHz

Note: * mean these are straddle channels and operating under control by under control of a low-power indoor access point only.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	<p>1. PIFA antenna can be used in the following ways: X / Y / Z axis. Pre-scan in these ways and find the worst case as a representative test condition.</p> <p>2. For 1TX has diversity configuration. Pre-scan in these chain0 and chain1 and find the worst case as a representative test condition.</p> <p>3. For Partial RU modes of all supported bandwidth modes needs to be pre-worst.</p> <p>4. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna port (if EUT with antenna diversity architecture)</p>
Worst Case:	<p>1. PIFA antenna the worst case was found when positioned on (X / Y / Z axis): Unwanted Emissions below 1 GHz: Y axis Unwanted Emissions above 1 GHz: Y axis</p> <p>2. For 1TX diversity configuration the worst chain is: chain 0 (S1)</p> <p>3. The worst case occurs in 20MHz bandwidth (RU 26/52/106).</p>

Following channel(s) was (were) selected for the final test as listed below:

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Maximum RF Output Power	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11ax (HE20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11ax (HE40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11ax (HE80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11ax (HE160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Maximum RF Output Power	under control of low power indoor AP	802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11ax (HE20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11ax (HE40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11ax (HE80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11ax (HE160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Maximum Power Spectral Density	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8,
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40,
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54,

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Emission Bandwidth	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8,
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40,
802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54,		

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
In-Band Emission Mask	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8,
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40,
802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54,		

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Occupied Bandwidth	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8,
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40,
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54,

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
Frequency Stability	-	802.11a	-	1	unmodulated	-	-
Contention-based Protocol	under control of low power indoor AP	802.11be (EHT20)	-	53, 105, 149, 213	BPSK	MCS0	NA
		802.11be (EHT160)	-	47, 111, 143, 207	BPSK	MCS0	NA
AC Power Conducted Emissions	under control of low power indoor AP	802.11be (EHT160)	2TX NSS2	15	BPSK	MCS0	NA
	under control of standard power AP	802.11be (EHT20)	2TX NSS2	149	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	under control of low power indoor AP	802.11be (EHT160)	2TX NSS2	15	BPSK	MCS0	NA
	under control of standard power AP	802.11be (EHT20)	2TX NSS2	149	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	under control of low power indoor AP	802.11a	1TX / 2TX	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 99, 107, 115, 123, 147, 179, 187, 203, 227	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 103, 119, 135, 151, 167, 183, 199, 215	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	0, 4, 8, 0, 4, 8, 0, 4, 8, 0, 4, 8
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	37, 38, 40, 37, 38, 40, 37, 38, 40, 37, 38, 40
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233	BPSK	MCS0	53, 53, 54, 53, 53, 54, 53, 53, 54, 53, 53, 54

Test Item	Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
	under control of standard power AP	802.11a	1TX / 2TX	1, 49, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11be (EHT20)	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11be (EHT40)	1TX NSS1 / 2TX NSS2	3, 51, 91, 123, 147, 179	BPSK	MCS0	NA
		802.11be (EHT80)	1TX NSS1 / 2TX NSS2	7, 55, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11be (EHT160)	1TX NSS1 / 2TX NSS2	15, 47, 79, 143	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	0, 4, 8, 0, 4, 8,
		802.11be (EHT20) 52-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	37, 38, 40, 37, 38, 40,
		802.11be (EHT20) 106-tone RU	1TX NSS1 / 2TX NSS2	1, 49, 93, 117, 149, 181	BPSK	MCS0	53, 53, 54, 53, 53, 54,

Note:
Channel puncturing and bandwidth reduction mechanisms are not supported.
Contention Base Protocol test that utilized an antenna net gain of -2.28dBi as a representation of the worst-case test condition.

3.5 Duty Cycle of Test Signal

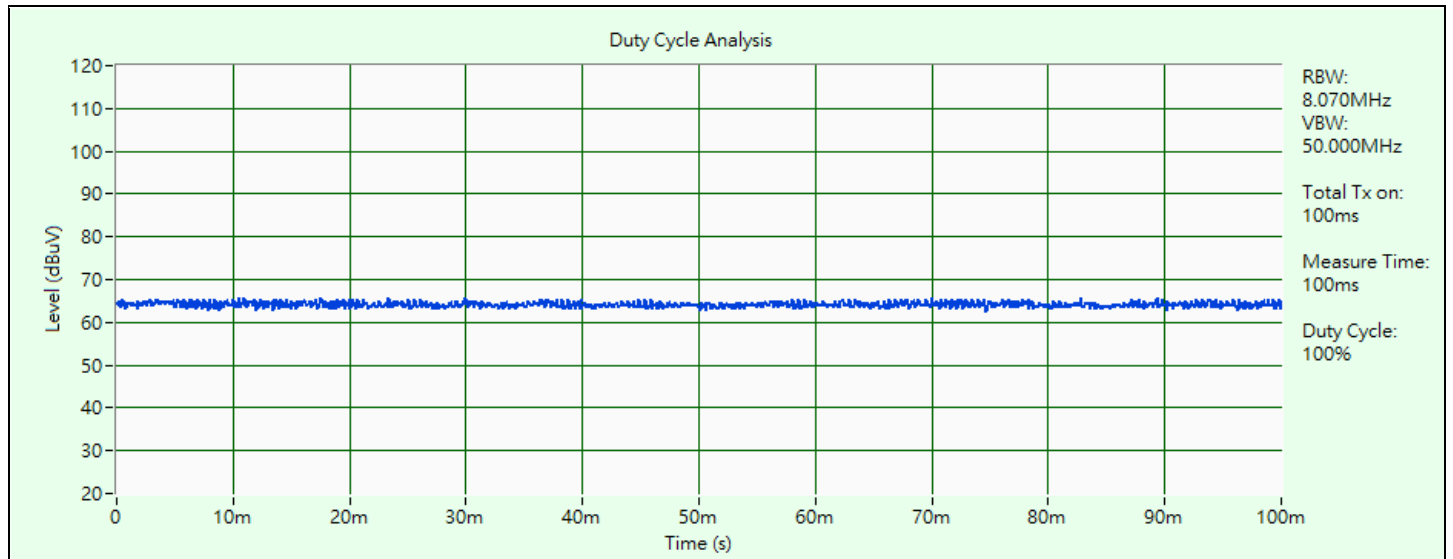
802.11a: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11be (EHT20): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

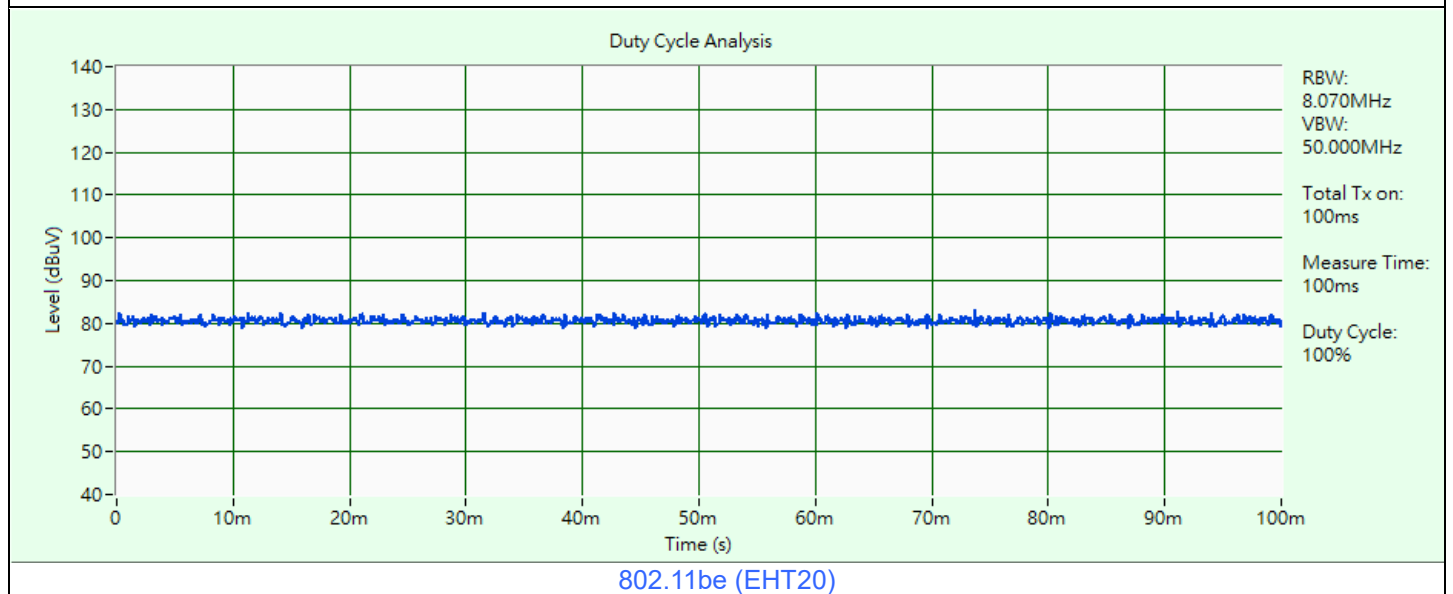
802.11be (EHT40): Duty cycle = 0.954 ms / 0.957 ms x 100% = 99.7%

802.11be (EHT80): Duty cycle = 0.988 ms / 1 ms x 100% = 98.8%

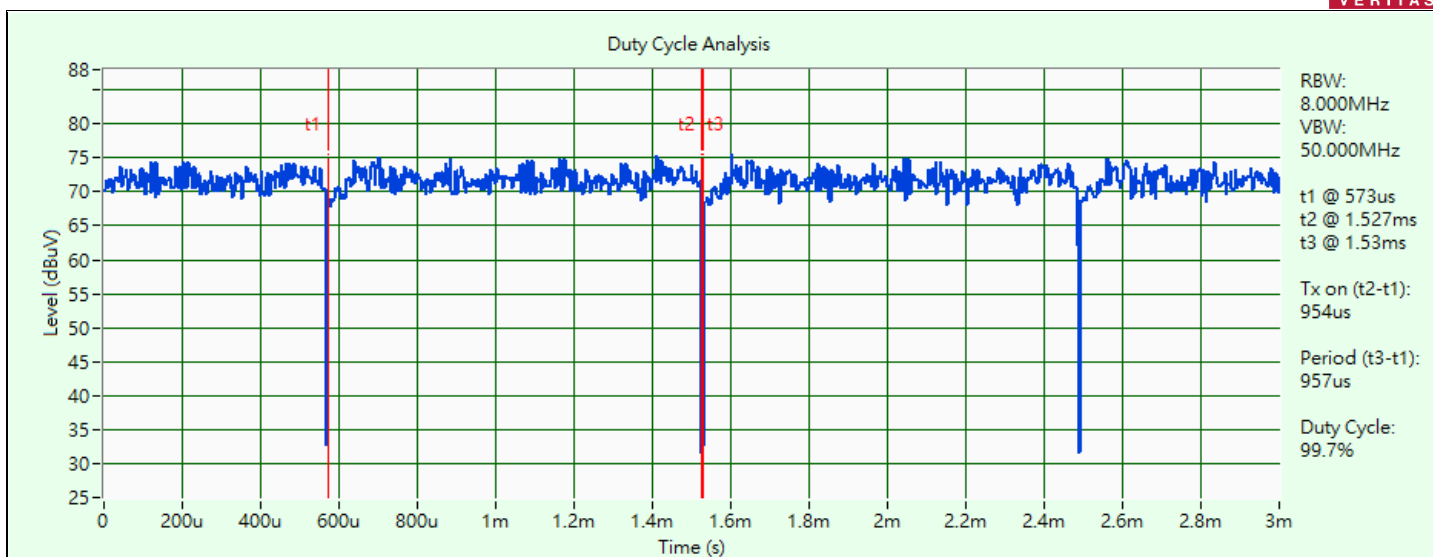
802.11be (EHT160): Duty cycle = 100 ms / 100 ms x 100% = 100.0%



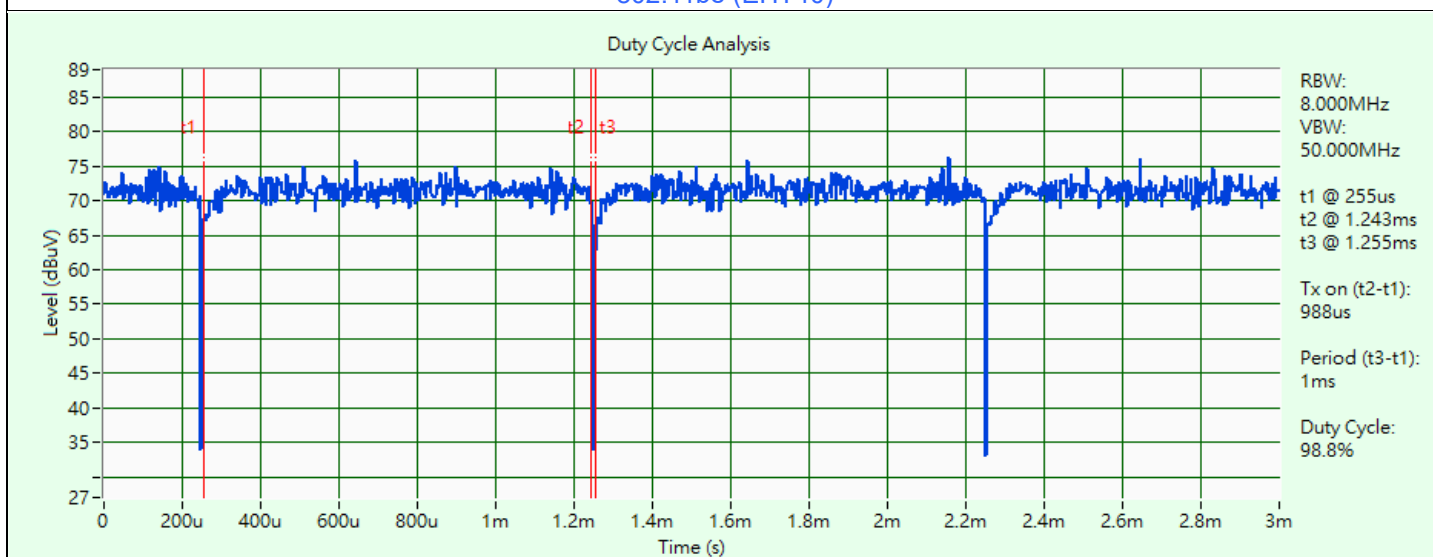
802.11a



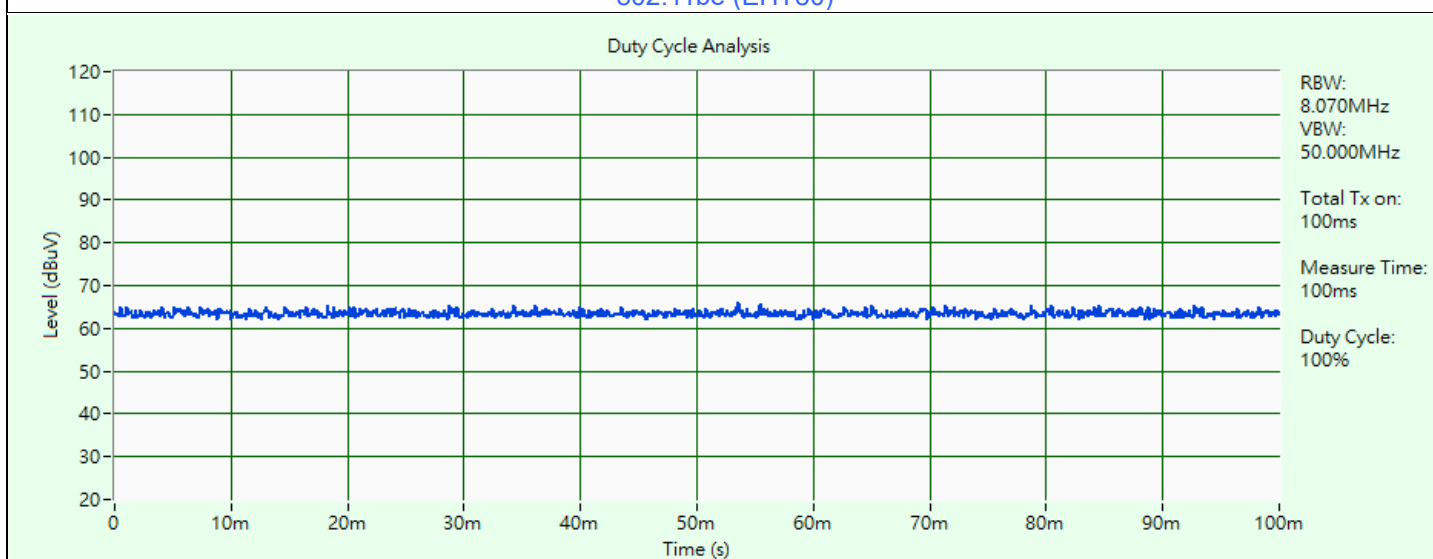
802.11be (EHT20)



802.11be (EHT40)



802.11be (EHT80)

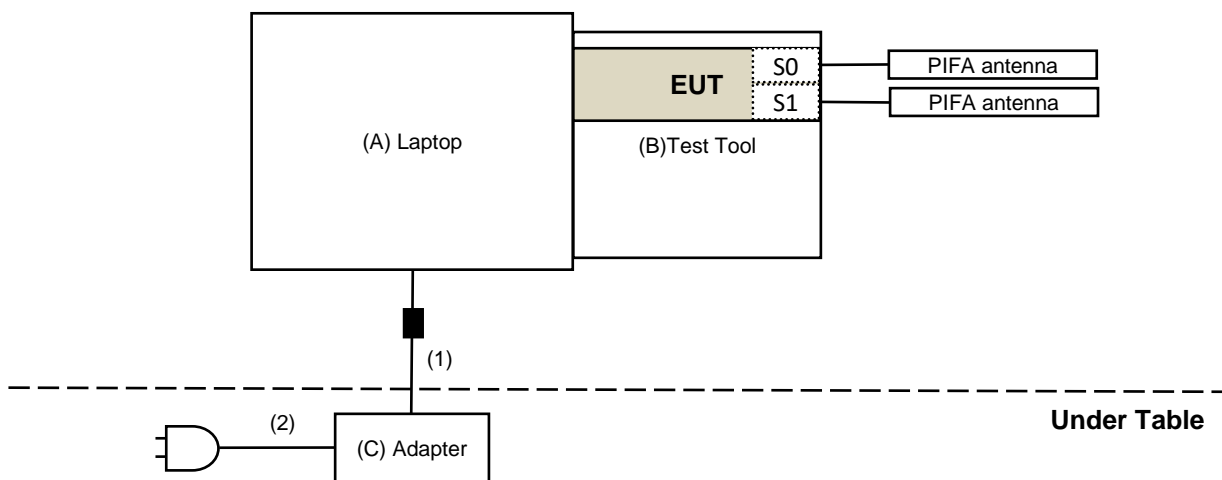


802.11be (EHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software Realtek Version mp_v2.0.19-1 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R9-0GFJJK	N/A	Provided by Lab
B	Test Tool	Realtek	N/A	N/A	N/A	Supplied by applicant
C	Adapter	Lenovo	PA-1650-74	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.6	No	1	Provided by Lab
2	AC Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Maximum RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18	2024/1/17
		MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/8/10 ~ 2023/10/25

4.2 Maximum Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140488	2023/3/6	2024/3/5
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
		101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/8/10 ~ 2023/10/25

4.3 Emission Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
		101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/8/10 ~ 2023/10/25

4.4 In-Band Emission Mask

Refer to section 4.3 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.3 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2023/6/19	2024/6/18
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2022/12/27	2023/12/26

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/8/10 ~ 2023/8/17

4.7 Contention-based Protocol

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
MXG Vector signal generator Agilent	N5182B	MY53050430	2022/11/29	2023/11/28
MXG Vector Signal Generator Keysight	N5182BU	MY59360189	2022/11/29	2023/11/28
Power Divider Woken	0120A02058001M	DCMD33WIK3	2023/5/5	2024/5/4
		DCMD33WIK7	2023/5/5	2024/5/4

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2023/10/20

4.8 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2022/11/17	2023/11/16
50 ohm terminal resistance	E1-011280	05	2022/11/21	2023/11/20
	E1-011311	09	2022/11/17	2023/11/16
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2022/11/9	2023/11/8
EMI Test Receiver R&S	ESCI	100613	2022/12/5	2023/12/4
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2023/1/7	2024/1/6
LISN R&S	ENV216	101826	2023/3/23	2024/3/22
	ESH3-Z5	100311	2023/9/6	2024/9/5
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/9/25

4.9 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2022/10/20	2023/10/19
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Loop Antenna Electro-Metrics	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
Preamplifier EMCI	EMC330N	980782	2023/1/16	2024/1/15
	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
	EMCCFD400-NM-NM- 500	201233	2023/1/16	2024/1/15
	EMCCFD400-NM-NM- 3000	201235	2023/1/16	2024/1/15
	EMCCFD400-NM-NM- 9000	201236(with PAD)	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/8/21

4.10 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Horn Antenna RFSPIN	DRH18-E	210103A18E	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2022/11/13	2023/11/12
Preamplifier EMCI	EMC118A45SE	980808	2022/12/29	2023/12/28
	EMC184045SE	980788	2023/1/16	2024/1/15
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2023/1/16	2024/1/15
	EMC101G-KM-KM-3000	201257	2023/1/16	2024/1/15
	EMC101G-KM-KM-5000	201260	2023/1/16	2024/1/15
	EMC104-SM-SM-1000	210102	2023/1/16	2024/1/15
	EMC104-SM-SM-3000	201231	2023/1/16	2024/1/15
	EMC104-SM-SM-9000	201243	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/8/1 ~ 2023/8/24

5 Limits of Test Items

5.1 Maximum RF Output Power

Operation Band	Equipment Class	Limit
		Maximum Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6CD: 15E 6 GHz Dual client (under control of a low-power indoor access point)	EIRP 24 dBm
U-NII-5 U-NII-7	6CD: 15E 6 GHz Dual client (under control of a Standard power access point)	EIRP 30 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.2 Maximum Power Spectral Density

Operation Band	Equipment Class	Limit
		Maximum Power Density
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6CD: 15E 6 GHz Dual client (under control of a low-power indoor access point)	EIRP -1 dBm/MHz
U-NII-5 U-NII-7	6CD: 15E 6 GHz Dual client (under control of a Standard power access point)	EIRP 17 dBm/MHz

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB

5.3 Emission Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

5.4 In-Band Emission Mask

Test Item	Frequencies (MHz)	(X) dBc* ¹
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center* ²	28
	At one- and one-half times the channel bandwidth away from channel center* ³	40
	More than one- and one-half times the channel bandwidth	40

*¹ : The power spectral density must be suppressed by “x” dB

*² : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

*³ : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

5.5 Occupied Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

5.8 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.9 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.10 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

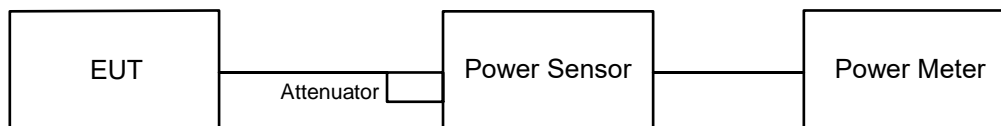
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).$$

6 Test Arrangements

6.1 Maximum RF Output Power

6.1.1 Test Setup

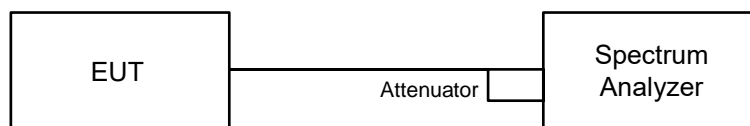


6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

6.2 Maximum Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

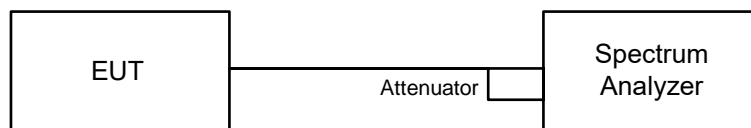
For specified measurement bandwidth 1 MHz:

Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- c. Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. Record the max value

6.3 Emission Bandwidth

6.3.1 Test Setup

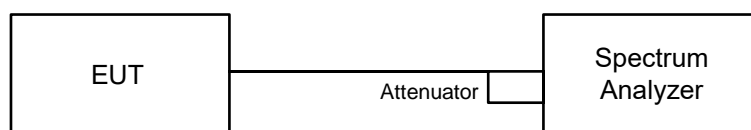


6.3.2 Test Procedure

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.4 In-Band Emission Mask

6.4.1 Test Setup

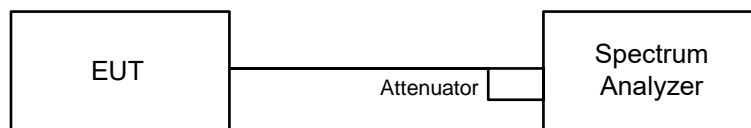


6.4.2 Test Procedure

- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW \geq [3 X RBW].
 - d) Number of points in sweep \geq [2 X span / RBW].
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging).
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

6.5 Occupied Bandwidth

6.5.1 Test Setup

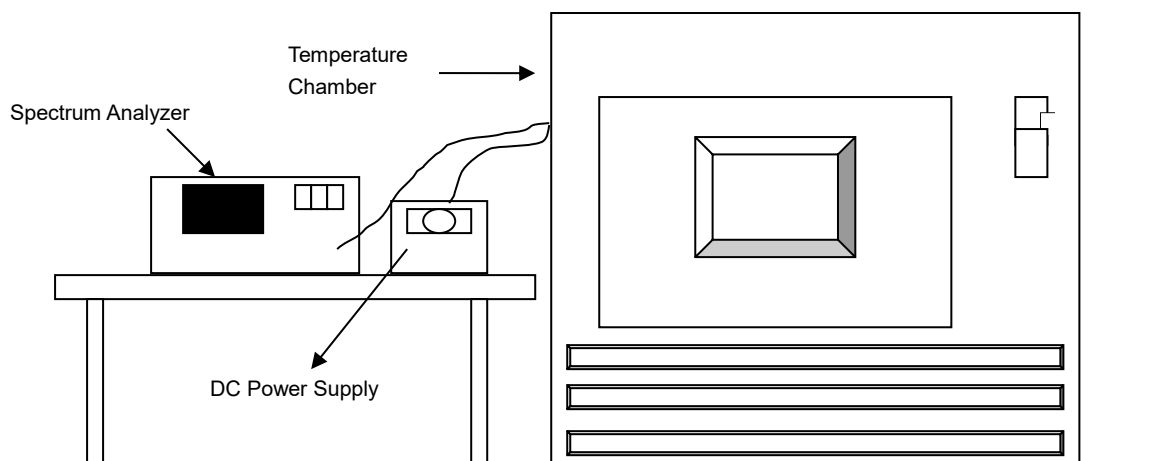


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

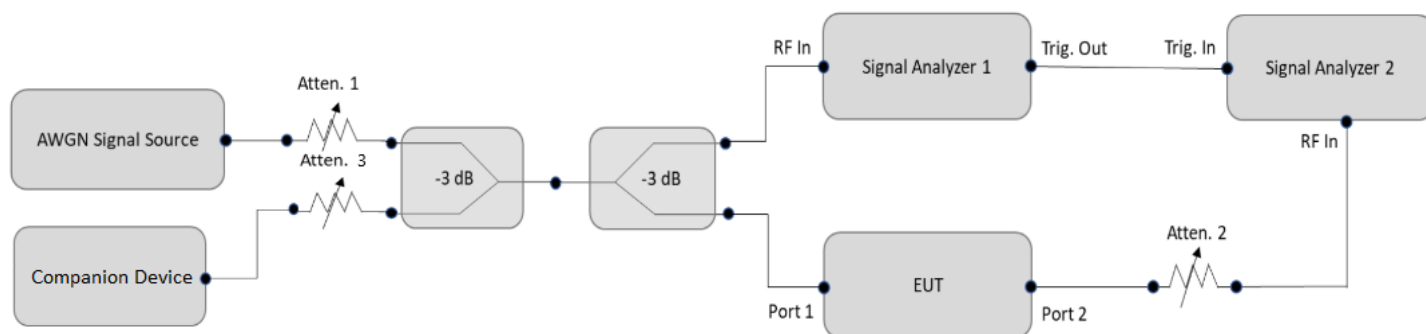


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 Contention-based Protocol

6.7.1 Test Setup



6.7.2 Test Procedure

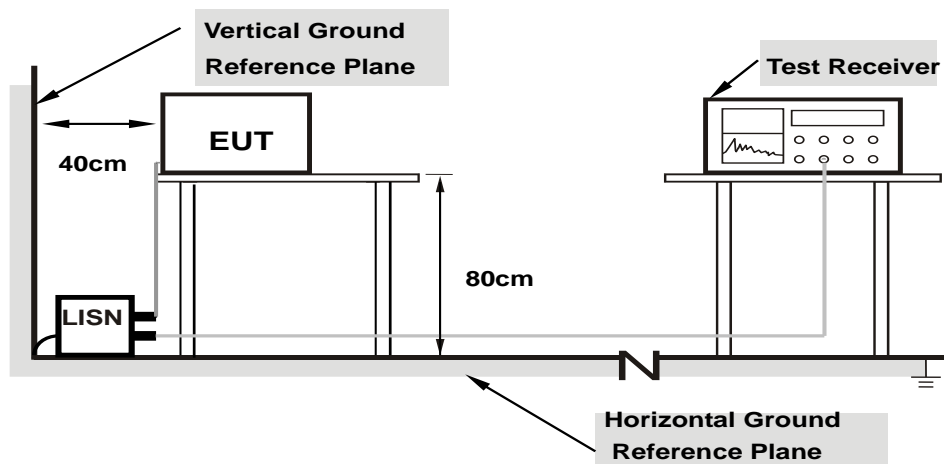
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$	Once	Contained within BW_{EUT}
$2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4x BW_{Inc}$	Three times	Closely to the lower edge, in the middle and upper edge of the EUT Channel

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

6.8 AC Power Conducted Emissions

6.8.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

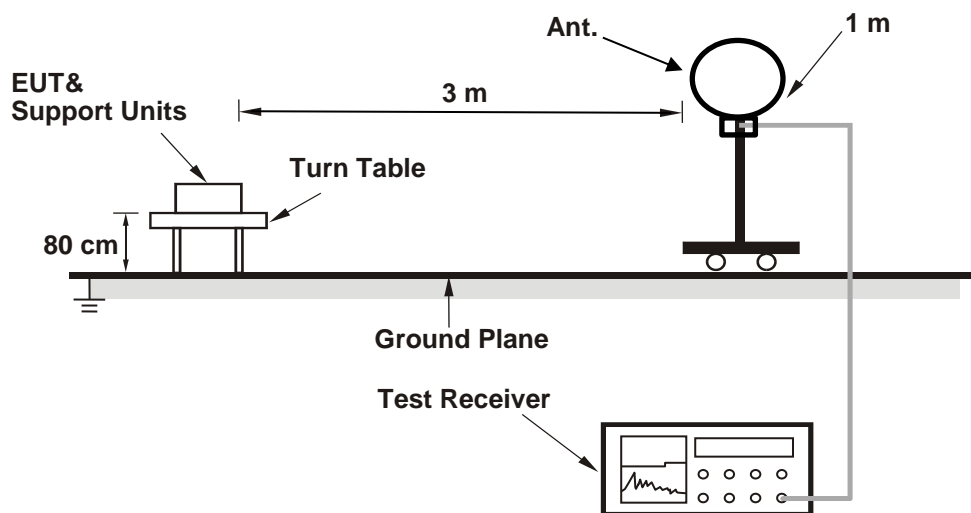
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

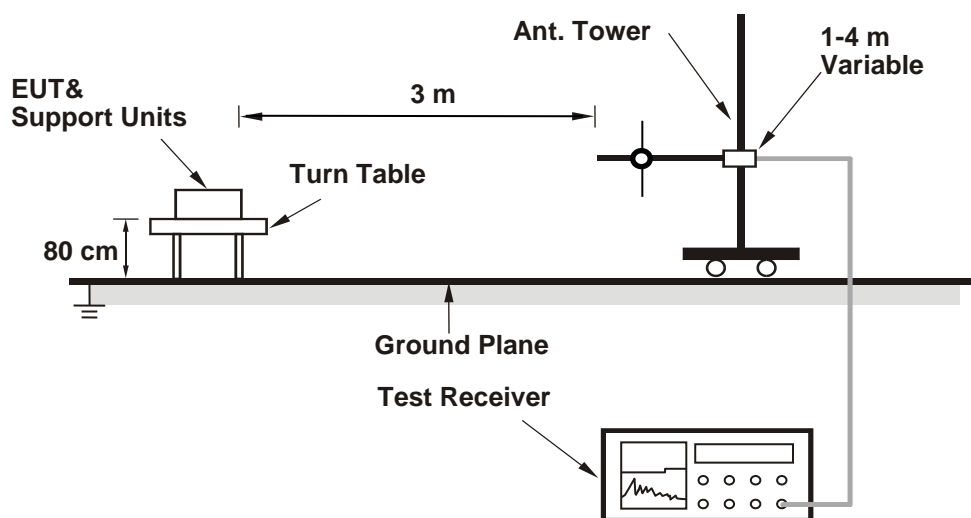
6.9 Unwanted Emissions below 1 GHz

6.9.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.9.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

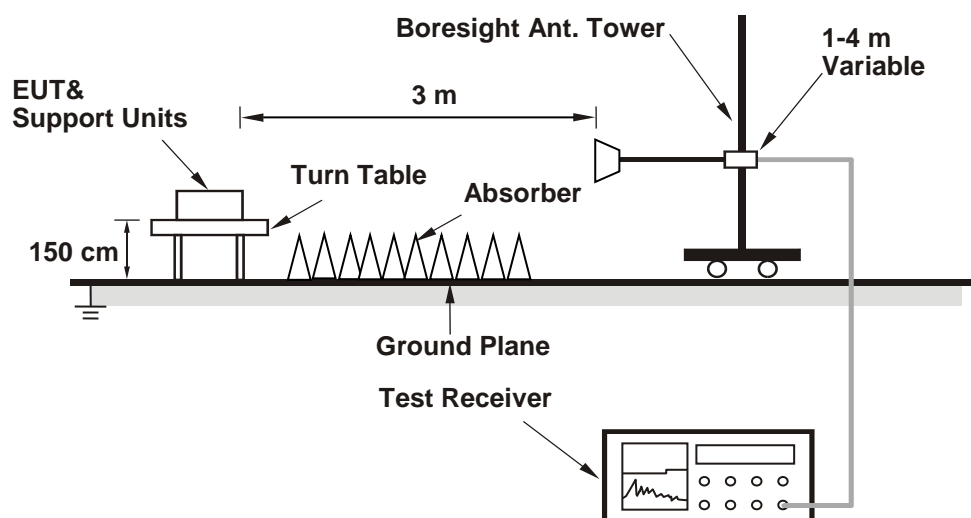
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.10 Unwanted Emissions above 1 GHz

6.10.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.10.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.
For SISO A and SISO B 802.11ax (HE20) CH233: Integration method
 - For peak emissions measurements:
 - Set RBW = 100 kHz
 - Detection = peak.
 - Max hold.
 - Perform band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.
 - For average emissions measurements:
 - Set RBW = 100 kHz.
 - Perform band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 Maximum RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of low power indoor AP
1TX

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	4.989	6.98	5.00	15.777	11.98	24	Pass
49	6195	4.932	6.93	5.00	15.596	11.93	24	Pass
93	6415	4.667	6.69	5.00	14.758	11.69	24	Pass
97	6435	4.732	6.75	5.00	14.964	11.75	24	Pass
105	6475	4.645	6.67	5.00	14.689	11.67	24	Pass
113	6515	4.853	6.86	5.00	15.347	11.86	24	Pass
117	6535	4.764	6.78	5.00	15.065	11.78	24	Pass
149	6695	4.797	6.81	5.00	15.169	11.81	24	Pass
181	6855	4.775	6.79	5.00	15.1	11.79	24	Pass
185	6875	4.842	6.85	5.00	15.312	11.85	24	Pass
209	6995	4.797	6.81	5.00	15.169	11.81	24	Pass
233	7115	4.819	6.83	5.00	15.239	11.83	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	5.035	7.02	5.00	15.922	12.02	24	Pass
49	6195	4.92	6.92	5.00	15.558	11.92	24	Pass
93	6415	4.742	6.76	5.00	14.996	11.76	24	Pass
97	6435	4.613	6.64	5.00	14.588	11.64	24	Pass
105	6475	4.943	6.94	5.00	15.631	11.94	24	Pass
113	6515	4.955	6.95	5.00	15.669	11.95	24	Pass
117	6535	4.831	6.84	5.00	15.277	11.84	24	Pass
149	6695	5.023	7.01	5.00	15.884	12.01	24	Pass
181	6855	4.808	6.82	5.00	15.204	11.82	24	Pass
185	6875	5.035	7.02	5.00	15.922	12.02	24	Pass
209	6995	5	6.99	5.00	15.811	11.99	24	Pass
233	7115	4.989	6.98	5.00	15.777	11.98	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	9.84	9.93	5.00	31.117	14.93	24	Pass
51	6205	10.162	10.07	5.00	32.135	15.07	24	Pass
91	6405	10.209	10.09	5.00	32.284	15.09	24	Pass
99	6445	10.093	10.04	5.00	31.917	15.04	24	Pass
107	6485	9.661	9.85	5.00	30.551	14.85	24	Pass
115	6525	9.886	9.95	5.00	31.262	14.95	24	Pass
123	6565	9.817	9.92	5.00	31.044	14.92	24	Pass
147	6685	10.116	10.05	5.00	31.99	15.05	24	Pass
179	6845	10.139	10.06	5.00	32.062	15.06	24	Pass
187	6885	10.116	10.05	5.00	31.99	15.05	24	Pass
203	6965	9.863	9.94	5.00	31.19	14.94	24	Pass
227	7085	9.683	9.86	5.00	30.62	14.86	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	19.231	12.84	5.00	60.814	17.84	24	Pass
55	6225	18.75	12.73	5.00	59.293	17.73	24	Pass
87	6385	19.143	12.82	5.00	60.535	17.82	24	Pass
103	6465	19.588	12.92	5.00	61.943	17.92	24	Pass
119	6545	19.099	12.81	5.00	60.396	17.81	24	Pass
135	6625	18.75	12.73	5.00	59.293	17.73	24	Pass
151	6705	18.923	12.77	5.00	59.84	17.77	24	Pass
167	6785	19.055	12.80	5.00	60.257	17.8	24	Pass
183	6865	19.543	12.91	5.00	61.8	17.91	24	Pass
199	6945	19.187	12.83	5.00	60.675	17.83	24	Pass
215	7025	20.184	13.05	5.00	63.827	18.05	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	37.325	15.72	5.00	118.032	20.72	24	Pass
47	6185	36.475	15.62	5.00	115.344	20.62	24	Pass
79	6345	34.834	15.42	5.00	110.155	20.42	24	Pass
111	6505	36.224	15.59	5.00	114.55	20.59	24	Pass
143	6665	34.834	15.42	5.00	110.155	20.42	24	Pass
175	6825	35.481	15.50	5.00	112.201	20.5	24	Pass
207	6985	37.154	15.70	5.00	117.491	20.7	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	5.152	7.12	5.00	16.292	12.12	24	Pass
49	6195	5.047	7.03	5.00	15.96	12.03	24	Pass
93	6415	4.786	6.80	5.00	15.135	11.8	24	Pass
97	6435	4.742	6.76	5.00	14.996	11.76	24	Pass
105	6475	5.093	7.07	5.00	16.105	12.07	24	Pass
113	6515	5.105	7.08	5.00	16.143	12.08	24	Pass
117	6535	4.932	6.93	5.00	15.596	11.93	24	Pass
149	6695	5.236	7.19	5.00	16.558	12.19	24	Pass
181	6855	5	6.99	5.00	15.811	11.99	24	Pass
185	6875	5.129	7.10	5.00	16.219	12.1	24	Pass
209	6995	5.14	7.11	5.00	16.254	12.11	24	Pass
233	7115	5.117	7.09	5.00	16.181	12.09	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	9.977	9.99	5.00	31.55	14.99	24	Pass
51	6205	10.447	10.19	5.00	33.036	15.19	24	Pass
91	6405	10.375	10.16	5.00	32.809	15.16	24	Pass
99	6445	10.304	10.13	5.00	32.584	15.13	24	Pass
107	6485	9.931	9.97	5.00	31.405	14.97	24	Pass
115	6525	10.093	10.04	5.00	31.917	15.04	24	Pass
123	6565	10.209	10.09	5.00	32.284	15.09	24	Pass
147	6685	10.304	10.13	5.00	32.584	15.13	24	Pass
179	6845	10.351	10.15	5.00	32.733	15.15	24	Pass
187	6885	10.304	10.13	5.00	32.584	15.13	24	Pass
203	6965	10.023	10.01	5.00	31.696	15.01	24	Pass
227	7085	9.817	9.92	5.00	31.044	14.92	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	19.454	12.89	5.00	61.519	17.89	24	Pass
55	6225	18.836	12.75	5.00	59.565	17.75	24	Pass
87	6385	19.634	12.93	5.00	62.088	17.93	24	Pass
103	6465	19.907	12.99	5.00	62.951	17.99	24	Pass
119	6545	19.454	12.89	5.00	61.519	17.89	24	Pass
135	6625	19.231	12.84	5.00	60.814	17.84	24	Pass
151	6705	19.143	12.82	5.00	60.535	17.82	24	Pass
167	6785	19.634	12.93	5.00	62.088	17.93	24	Pass
183	6865	19.724	12.95	5.00	62.373	17.95	24	Pass
199	6945	19.907	12.99	5.00	62.951	17.99	24	Pass
215	7025	20.559	13.13	5.00	65.013	18.13	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	38.548	15.86	5.00	121.899	20.86	24	Pass
47	6185	37.584	15.75	5.00	118.851	20.75	24	Pass
79	6345	36.141	15.58	5.00	114.288	20.58	24	Pass
111	6505	37.068	15.69	5.00	117.219	20.69	24	Pass
143	6665	35.81	15.54	5.00	113.241	20.54	24	Pass
175	6825	36.475	15.62	5.00	115.344	20.62	24	Pass
207	6985	38.194	15.82	5.00	120.78	20.82	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	0.743	-1.29	5.00	2.35	3.71	24	Pass
49	6195	0.7345	-1.34	5.00	2.323	3.66	24	Pass
93	6415	0.7328	-1.35	5.00	2.317	3.65	24	Pass
97	6435	0.7228	-1.41	5.00	2.286	3.59	24	Pass
105	6475	0.7295	-1.37	5.00	2.307	3.63	24	Pass
113	6515	0.7295	-1.37	5.00	2.307	3.63	24	Pass
117	6535	0.7161	-1.45	5.00	2.265	3.55	24	Pass
149	6695	0.7096	-1.49	5.00	2.244	3.51	24	Pass
181	6855	0.7178	-1.44	5.00	2.27	3.56	24	Pass
185	6875	0.7211	-1.42	5.00	2.28	3.58	24	Pass
209	6995	0.7129	-1.47	5.00	2.254	3.53	24	Pass
233	7115	0.7261	-1.39	5.00	2.296	3.61	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	1.416	1.51	5.00	4.478	6.51	24	Pass
49	6195	1.409	1.49	5.00	4.456	6.49	24	Pass
93	6415	1.371	1.37	5.00	4.335	6.37	24	Pass
97	6435	1.355	1.32	5.00	4.285	6.32	24	Pass
105	6475	1.39	1.43	5.00	4.396	6.43	24	Pass
113	6515	1.416	1.51	5.00	4.478	6.51	24	Pass
117	6535	1.365	1.35	5.00	4.317	6.35	24	Pass
149	6695	1.387	1.42	5.00	4.386	6.42	24	Pass
181	6855	1.368	1.36	5.00	4.326	6.36	24	Pass
185	6875	1.403	1.47	5.00	4.437	6.47	24	Pass
209	6995	1.368	1.36	5.00	4.326	6.36	24	Pass
233	7115	1.406	1.48	5.00	4.446	6.48	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	2.748	4.39	5.00	8.69	9.39	24	Pass
49	6195	2.698	4.31	5.00	8.532	9.31	24	Pass
93	6415	2.588	4.13	5.00	8.184	9.13	24	Pass
97	6435	2.547	4.06	5.00	8.054	9.06	24	Pass
105	6475	2.655	4.24	5.00	8.396	9.24	24	Pass
113	6515	2.71	4.33	5.00	8.57	9.33	24	Pass
117	6535	2.588	4.13	5.00	8.184	9.13	24	Pass
149	6695	2.698	4.31	5.00	8.532	9.31	24	Pass
181	6855	2.679	4.28	5.00	8.472	9.28	24	Pass
185	6875	2.71	4.33	5.00	8.57	9.33	24	Pass
209	6995	2.624	4.19	5.00	8.298	9.19	24	Pass
233	7115	2.661	4.25	5.00	8.415	9.25	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

2TX
802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	1.22	1.33	2.683	4.29	5.00	8.484	9.29	24	Pass
49	6195	1.21	1.34	2.683	4.29	5.00	8.484	9.29	24	Pass
93	6415	1.27	1.37	2.711	4.33	5.00	8.573	9.33	24	Pass
97	6435	1.13	1.42	2.684	4.29	5.00	8.488	9.29	24	Pass
105	6475	1.21	1.32	2.676	4.27	5.00	8.462	9.27	24	Pass
113	6515	1.24	1.29	2.676	4.27	5.00	8.462	9.27	24	Pass
117	6535	1.26	1.31	2.689	4.30	5.00	8.503	9.3	24	Pass
149	6695	1.29	1.32	2.701	4.32	5.00	8.541	9.32	24	Pass
181	6855	1.23	1.32	2.683	4.29	5.00	8.484	9.29	24	Pass
185	6875	1.32	1.38	2.729	4.36	5.00	8.63	9.36	24	Pass
209	6995	1.29	1.41	2.729	4.36	5.00	8.63	9.36	24	Pass
233	7115	1.35	1.39	2.742	4.38	5.00	8.671	9.38	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 5 dBi
3. For U-NII-6, The maximum gain is 5 dBi
4. For U-NII-7, The maximum gain is 5 dBi
5. For U-NII-8, The maximum gain is 5 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	3.98	4.29	5.187	7.15	5.00	16.403	12.15	24	Pass
49	6195	3.97	4.02	5.015	7.00	5.00	15.859	12	24	Pass
93	6415	3.95	4.15	5.08	7.06	5.00	16.064	12.06	24	Pass
97	6435	4.13	4.13	5.173	7.14	5.00	16.358	12.14	24	Pass
105	6475	3.93	4.17	5.083	7.06	5.00	16.074	12.06	24	Pass
113	6515	4.13	4.28	5.27	7.22	5.00	16.665	12.22	24	Pass
117	6535	4.07	4.25	5.216	7.17	5.00	16.494	12.17	24	Pass
149	6695	4.08	4.13	5.149	7.12	5.00	16.283	12.12	24	Pass
181	6855	4.03	4.11	5.103	7.08	5.00	16.137	12.08	24	Pass
185	6875	4.09	4.16	5.172	7.14	5.00	16.355	12.14	24	Pass
209	6995	4.10	4.18	5.189	7.15	5.00	16.409	12.15	24	Pass
233	7115	4.11	4.20	5.201	7.16	5.00	16.447	12.16	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
3	5965	7.10	7.18	10.359	10.15	5.00	32.758	15.15	24	Pass
51	6205	7.04	7.23	10.347	10.15	5.00	32.72	15.15	24	Pass
91	6405	7.02	7.27	10.363	10.15	5.00	32.771	15.15	24	Pass
99	6445	6.99	7.14	10.174	10.07	5.00	32.173	15.07	24	Pass
107	6485	6.92	7.20	10.162	10.07	5.00	32.135	15.07	24	Pass
115	6525	7.08	7.14	10.283	10.12	5.00	32.518	15.12	24	Pass
123	6565	7.09	7.11	10.264	10.11	5.00	32.458	15.11	24	Pass
147	6685	7.12	7.08	10.263	10.11	5.00	32.454	15.11	24	Pass
179	6845	7.12	7.22	10.424	10.18	5.00	32.964	15.18	24	Pass
187	6885	7.15	7.33	10.592	10.25	5.00	33.495	15.25	24	Pass
203	6965	7.02	7.14	10.201	10.09	5.00	32.258	15.09	24	Pass
227	7085	6.94	7.14	10.12	10.05	5.00	32.002	15.05	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
7	5985	9.70	10.00	19.316	12.86	5.00	61.083	17.86	24	Pass
55	6225	9.73	9.96	19.314	12.86	5.00	61.076	17.86	24	Pass
87	6385	9.83	9.89	19.378	12.87	5.00	61.279	17.87	24	Pass
103	6465	9.74	10.10	19.658	12.94	5.00	62.164	17.94	24	Pass
119	6545	9.79	10.10	19.768	12.96	5.00	62.512	17.96	24	Pass
135	6625	9.69	9.95	19.192	12.83	5.00	60.69	17.83	24	Pass
151	6705	9.65	10.14	19.556	12.91	5.00	61.842	17.91	24	Pass
167	6785	9.67	10.13	19.573	12.92	5.00	61.895	17.92	24	Pass
183	6865	9.75	10.19	19.9	12.99	5.00	62.929	17.99	24	Pass
199	6945	9.69	10.12	19.606	12.92	5.00	62	17.92	24	Pass
215	7025	9.83	10.32	20.396	13.10	5.00	64.498	18.1	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
15	6025	12.60	12.72	36.915	15.67	5.00	116.735	20.67	24	Pass
47	6185	12.48	12.60	35.926	15.55	5.00	113.608	20.55	24	Pass
79	6345	12.49	12.55	35.723	15.53	5.00	112.966	20.53	24	Pass
111	6505	12.50	12.61	36.026	15.57	5.00	113.924	20.57	24	Pass
143	6665	12.52	12.63	36.202	15.59	5.00	114.481	20.59	24	Pass
175	6825	12.44	12.55	35.544	15.51	5.00	112.4	20.51	24	Pass
207	6985	12.61	12.60	36.421	15.61	5.00	115.173	20.61	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	4.11	4.34	5.296	7.24	5.00	16.747	12.24	24	Pass
49	6195	4.06	4.16	5.157	7.12	5.00	16.308	12.12	24	Pass
93	6415	4.12	4.28	5.262	7.21	5.00	16.64	12.21	24	Pass
97	6435	4.18	4.37	5.349	7.28	5.00	16.915	12.28	24	Pass
105	6475	4.03	4.26	5.201	7.16	5.00	16.447	12.16	24	Pass
113	6515	4.16	4.35	5.327	7.26	5.00	16.845	12.26	24	Pass
117	6535	4.19	4.30	5.314	7.25	5.00	16.804	12.25	24	Pass
149	6695	4.19	4.19	5.251	7.20	5.00	16.605	12.2	24	Pass
181	6855	4.15	4.31	5.296	7.24	5.00	16.747	12.24	24	Pass
185	6875	4.28	4.33	5.387	7.31	5.00	17.035	12.31	24	Pass
209	6995	4.22	4.32	5.345	7.28	5.00	16.902	12.28	24	Pass
233	7115	4.25	4.26	5.329	7.27	5.00	16.852	12.27	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
3	5965	7.17	7.25	10.52	10.22	5.00	33.267	15.22	24	Pass
51	6205	7.06	7.25	10.386	10.16	5.00	32.843	15.16	24	Pass
91	6405	7.15	7.34	10.6	10.25	5.00	33.52	15.25	24	Pass
99	6445	7.04	7.30	10.428	10.18	5.00	32.976	15.18	24	Pass
107	6485	7.08	7.17	10.313	10.13	5.00	32.613	15.13	24	Pass
115	6525	7.16	7.33	10.602	10.25	5.00	33.526	15.25	24	Pass
123	6565	7.22	7.22	10.545	10.23	5.00	33.346	15.23	24	Pass
147	6685	7.10	7.21	10.393	10.17	5.00	32.866	15.17	24	Pass
179	6845	7.20	7.30	10.62	10.26	5.00	33.583	15.26	24	Pass
187	6885	7.12	7.40	10.65	10.27	5.00	33.678	15.27	24	Pass
203	6965	7.09	7.32	10.507	10.21	5.00	33.226	15.21	24	Pass
227	7085	7.10	7.19	10.36	10.15	5.00	32.761	15.15	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
7	5985	9.89	10.07	19.912	12.99	5.00	62.967	17.99	24	Pass
55	6225	9.91	10.08	19.97	13.00	5.00	63.151	18	24	Pass
87	6385	9.96	10.08	20.076	13.03	5.00	63.486	18.03	24	Pass
103	6465	9.81	10.22	20.107	13.03	5.00	63.584	18.03	24	Pass
119	6545	9.88	10.04	19.829	12.97	5.00	62.705	17.97	24	Pass
135	6625	9.81	10.13	19.888	12.99	5.00	62.891	17.99	24	Pass
151	6705	9.82	10.27	20.254	13.07	5.00	64.049	18.07	24	Pass
167	6785	9.78	10.17	19.89	12.99	5.00	62.898	17.99	24	Pass
183	6865	9.91	10.26	20.403	13.10	5.00	64.52	18.1	24	Pass
199	6945	9.87	10.29	20.385	13.09	5.00	64.463	18.09	24	Pass
215	7025	9.93	10.36	20.709	13.16	5.00	65.488	18.16	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
15	6025	12.58	12.85	37.395	15.73	5.00	118.253	20.73	24	Pass
47	6185	12.57	12.62	36.348	15.60	5.00	114.942	20.6	24	Pass
79	6345	12.50	12.59	35.927	15.55	5.00	113.611	20.55	24	Pass
111	6505	12.54	12.59	36.105	15.58	5.00	114.174	20.58	24	Pass
143	6665	12.54	12.69	36.54	15.63	5.00	115.55	20.63	24	Pass
175	6825	12.47	12.59	35.784	15.54	5.00	113.159	20.54	24	Pass
207	6985	12.65	12.65	36.791	15.66	5.00	116.343	20.66	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	-4.90	-4.81	0.6543	-1.84	5.00	2.069	3.16	24	Pass
49	6195	-4.80	-4.63	0.6757	-1.70	5.00	2.137	3.3	24	Pass
93	6415	-4.65	-4.50	0.6977	-1.56	5.00	2.206	3.44	24	Pass
97	6435	-4.78	-4.71	0.6707	-1.73	5.00	2.121	3.27	24	Pass
105	6475	-4.85	-4.71	0.6659	-1.77	5.00	2.106	3.23	24	Pass
113	6515	-4.85	-4.80	0.6590	-1.81	5.00	2.084	3.19	24	Pass
117	6535	-4.77	-4.69	0.673	-1.72	5.00	2.128	3.28	24	Pass
149	6695	-4.77	-4.62	0.6781	-1.69	5.00	2.144	3.31	24	Pass
181	6855	-4.84	-4.64	0.6710	-1.73	5.00	2.122	3.27	24	Pass
185	6875	-4.90	-4.69	0.663	-1.78	5.00	2.097	3.22	24	Pass
209	6995	-4.78	-4.70	0.6715	-1.73	5.00	2.123	3.27	24	Pass
233	7115	-4.73	-4.65	0.6793	-1.68	5.00	2.148	3.32	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	-1.87	-1.76	1.3173	1.20	5.00	4.166	6.2	24	Pass
49	6195	-1.83	-1.75	1.3239	1.22	5.00	4.187	6.22	24	Pass
93	6415	-1.97	-1.76	1.3018	1.15	5.00	4.117	6.15	24	Pass
97	6435	-2.08	-1.98	1.2534	0.98	5.00	3.964	5.98	24	Pass
105	6475	-1.79	-1.70	1.3386	1.27	5.00	4.233	6.27	24	Pass
113	6515	-2.10	-2.00	1.2483	0.96	5.00	3.947	5.96	24	Pass
117	6535	-2.11	-1.90	1.2601	1.00	5.00	3.985	6	24	Pass
149	6695	-1.83	-1.76	1.3236	1.22	5.00	4.186	6.22	24	Pass
181	6855	-1.90	-1.79	1.308	1.17	5.00	4.136	6.17	24	Pass
185	6875	-1.78	-1.74	1.3339	1.25	5.00	4.218	6.25	24	Pass
209	6995	-1.85	-1.78	1.3186	1.20	5.00	4.17	6.2	24	Pass
233	7115	-1.81	-1.77	1.3265	1.23	5.00	4.195	6.23	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	0.82	0.98	2.463	3.91	5.00	7.789	8.91	24	Pass
49	6195	0.82	1.02	2.474	3.93	5.00	7.823	8.93	24	Pass
93	6415	0.87	1.01	2.483	3.95	5.00	7.852	8.95	24	Pass
97	6435	0.82	0.97	2.459	3.91	5.00	7.776	8.91	24	Pass
105	6475	0.86	1.05	2.492	3.97	5.00	7.88	8.97	24	Pass
113	6515	0.76	0.99	2.446	3.88	5.00	7.735	8.88	24	Pass
117	6535	0.81	1.02	2.472	3.93	5.00	7.817	8.93	24	Pass
149	6695	0.91	1.04	2.504	3.99	5.00	7.918	8.99	24	Pass
181	6855	0.86	1.06	2.495	3.97	5.00	7.89	8.97	24	Pass
185	6875	0.81	1.01	2.466	3.92	5.00	7.798	8.92	24	Pass
209	6995	0.83	1.03	2.48	3.94	5.00	7.842	8.94	24	Pass
233	7115	0.75	0.95	2.434	3.86	5.00	7.697	8.86	24	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-6, The directional gain is 5 dBi
3. For U-NII-7, The directional gain is 5 dBi
4. For U-NII-8, The directional gain is 5 dBi



Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of standard power AP

1TX

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	167.109	22.23	5.00	528.445	27.23	30	Pass
49	6195	171.002	22.33	5.00	540.756	27.33	30	Pass
93	6415	168.655	22.27	5.00	533.334	27.27	30	Pass
117	6535	167.494	22.24	5.00	529.663	27.24	30	Pass
149	6695	172.982	22.38	5.00	547.017	27.38	30	Pass
181	6855	169.434	22.29	5.00	535.797	27.29	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	157.398	21.97	5.00	497.736	26.97	30	Pass
49	6195	161.065	22.07	5.00	509.332	27.07	30	Pass
93	6415	165.577	22.19	5.00	523.6	27.19	30	Pass
117	6535	161.436	22.08	5.00	510.505	27.08	30	Pass
149	6695	159.221	22.02	5.00	503.501	27.02	30	Pass
181	6855	163.682	22.14	5.00	517.608	27.14	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	153.702	21.87	5.00	486.048	26.87	30	Pass
51	6205	163.646	22.14	5.00	517.494	27.14	30	Pass
91	6405	164.566	22.16	5.00	520.403	27.16	30	Pass
123	6565	160.677	22.06	5.00	508.105	27.06	30	Pass
147	6685	166.168	22.21	5.00	525.469	27.21	30	Pass
179	6845	164.847	22.17	5.00	521.292	27.17	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	157.358	21.97	5.00	497.61	26.97	30	Pass
55	6225	157.74	21.98	5.00	498.818	26.98	30	Pass
87	6385	165.073	22.18	5.00	522.007	27.18	30	Pass
135	6625	164.06	22.15	5.00	518.803	27.15	30	Pass
151	6705	164.06	22.15	5.00	518.803	27.15	30	Pass
167	6785	161.589	22.08	5.00	510.989	27.08	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	59.566	17.75	5.00	188.364	22.75	30	Pass
47	6185	58.749	17.69	5.00	185.781	22.69	30	Pass
79	6345	42.56	16.29	5.00	134.587	21.29	30	Pass
143	6665	49.774	16.97	5.00	157.399	21.97	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	160.694	22.06	5.00	508.159	27.06	30	Pass
49	6195	163.305	22.13	5.00	516.416	27.13	30	Pass
93	6415	168.267	22.26	5.00	532.107	27.26	30	Pass
117	6535	164.816	22.17	5.00	521.194	27.17	30	Pass
149	6695	162.181	22.10	5.00	512.861	27.1	30	Pass
181	6855	166.341	22.21	5.00	526.016	27.21	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	159.956	22.04	5.00	505.825	27.04	30	Pass
51	6205	167.109	22.23	5.00	528.445	27.23	30	Pass
91	6405	165.577	22.19	5.00	523.6	27.19	30	Pass
123	6565	167.494	22.24	5.00	529.663	27.24	30	Pass
147	6685	169.434	22.29	5.00	535.797	27.29	30	Pass
179	6845	167.494	22.24	5.00	529.663	27.24	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	163.682	22.14	5.00	517.608	27.14	30	Pass
55	6225	159.588	22.03	5.00	504.662	27.03	30	Pass
87	6385	167.494	22.24	5.00	529.663	27.24	30	Pass
135	6625	168.267	22.26	5.00	532.107	27.26	30	Pass
151	6705	170.216	22.31	5.00	538.27	27.31	30	Pass
167	6785	163.682	22.14	5.00	517.608	27.14	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	60.954	17.85	5.00	192.753	22.85	30	Pass
47	6185	59.566	17.75	5.00	188.364	22.75	30	Pass
79	6345	42.855	16.32	5.00	135.519	21.32	30	Pass
143	6665	50.466	17.03	5.00	159.588	22.03	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	37.411	15.73	5.00	118.304	20.73	30	Pass
49	6195	40.738	16.10	5.00	128.825	21.1	30	Pass
93	6415	36.559	15.63	5.00	115.61	20.63	30	Pass
117	6535	37.068	15.69	5.00	117.219	20.69	30	Pass
149	6695	40.926	16.12	5.00	129.419	21.12	30	Pass
181	6855	37.584	15.75	5.00	118.851	20.75	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	72.111	18.58	5.00	228.035	23.58	30	Pass
49	6195	76.384	18.83	5.00	241.547	23.83	30	Pass
93	6415	72.946	18.63	5.00	230.676	23.63	30	Pass
117	6535	73.282	18.65	5.00	231.738	23.65	30	Pass
149	6695	76.033	18.81	5.00	240.437	23.81	30	Pass
181	6855	73.114	18.64	5.00	231.207	23.64	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	143.219	21.56	5.00	452.898	26.56	30	Pass
49	6195	144.544	21.60	5.00	457.088	26.6	30	Pass
93	6415	142.889	21.55	5.00	451.855	26.55	30	Pass
117	6535	145.881	21.64	5.00	461.316	26.64	30	Pass
149	6695	142.889	21.55	5.00	451.855	26.55	30	Pass
181	6855	149.279	21.74	5.00	472.062	26.74	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

2TX
802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	18.86	18.93	155.076	21.91	5.00	490.393	26.91	30	Pass
49	6195	18.75	18.84	151.549	21.81	5.00	479.24	26.81	30	Pass
93	6415	18.72	18.89	151.919	21.82	5.00	480.41	26.82	30	Pass
117	6535	18.81	18.92	154.016	21.88	5.00	487.041	26.88	30	Pass
149	6695	18.82	18.99	155.458	21.92	5.00	491.601	26.92	30	Pass
181	6855	18.69	18.89	151.407	21.80	5.00	478.791	26.8	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 5 dBi
3. For U-NII-7, The maximum gain is 5 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	21.69	21.85	300.579	24.78	5.00	950.514	29.78	30	Pass
49	6195	21.71	21.77	298.49	24.75	5.00	943.908	29.75	30	Pass
93	6415	21.73	21.86	302.485	24.81	5.00	956.542	29.81	30	Pass
117	6535	21.71	21.82	300.225	24.77	5.00	949.395	29.77	30	Pass
149	6695	21.78	21.86	304.073	24.83	5.00	961.563	29.83	30	Pass
181	6855	21.67	21.80	298.034	24.74	5.00	942.466	29.74	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
3	5965	18.78	18.95	154.095	21.88	5.00	487.291	26.88	30	Pass
51	6205	21.39	21.57	281.332	24.49	5.00	889.65	29.49	30	Pass
91	6405	21.56	21.80	294.499	24.69	5.00	931.288	29.69	30	Pass
123	6565	21.58	21.73	292.58	24.66	5.00	925.219	29.66	30	Pass
147	6685	21.42	21.60	283.229	24.52	5.00	895.649	29.52	30	Pass
179	6845	21.51	21.62	286.596	24.57	5.00	906.296	29.57	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
7	5985	17.44	17.59	112.866	20.53	5.00	356.914	25.53	30	Pass
55	6225	21.54	21.62	287.628	24.59	5.00	909.56	29.59	30	Pass
87	6385	21.36	21.71	285.149	24.55	5.00	901.72	29.55	30	Pass
135	6625	21.44	21.67	286.395	24.57	5.00	905.661	29.57	30	Pass
151	6705	21.49	21.61	285.587	24.56	5.00	903.105	29.56	30	Pass
167	6785	21.49	21.54	283.552	24.53	5.00	896.67	29.53	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
15	6025	17.69	17.73	118.041	20.72	5.00	373.278	25.72	30	Pass
47	6185	17.58	17.68	115.893	20.64	5.00	366.486	25.64	30	Pass
79	6345	16.21	16.29	84.343	19.26	5.00	266.716	24.26	30	Pass
143	6665	16.89	16.98	98.754	19.95	5.00	312.288	24.95	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	21.77	21.91	305.347	24.85	5.00	965.592	29.85	30	Pass
49	6195	21.82	21.90	306.836	24.87	5.00	970.301	29.87	30	Pass
93	6415	21.71	21.93	304.431	24.83	5.00	962.695	29.83	30	Pass
117	6535	21.80	21.92	307.164	24.87	5.00	971.338	29.87	30	Pass
149	6695	21.85	21.94	309.39	24.91	5.00	978.377	29.91	30	Pass
181	6855	21.69	21.96	304.685	24.84	5.00	963.499	29.84	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
3	5965	18.83	18.94	154.727	21.90	5.00	489.29	26.9	30	Pass
51	6205	21.48	21.67	287.497	24.59	5.00	909.145	29.59	30	Pass
91	6405	21.66	21.85	299.664	24.77	5.00	947.621	29.77	30	Pass
123	6565	21.62	21.74	294.491	24.69	5.00	931.262	29.69	30	Pass
147	6685	21.51	21.65	287.797	24.59	5.00	910.094	29.59	30	Pass
179	6845	21.54	21.66	289.116	24.61	5.00	914.265	29.61	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
7	5985	17.49	17.65	114.315	20.58	5.00	361.496	25.58	30	Pass
55	6225	21.57	21.67	290.442	24.63	5.00	918.458	29.63	30	Pass
87	6385	21.43	21.73	287.931	24.59	5.00	910.518	29.59	30	Pass
135	6625	21.51	21.68	288.811	24.61	5.00	913.301	29.61	30	Pass
151	6705	21.54	21.64	288.442	24.60	5.00	912.134	29.6	30	Pass
167	6785	21.59	21.62	289.423	24.62	5.00	915.236	29.62	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
15	6025	17.76	17.85	120.657	20.82	5.00	381.551	25.82	30	Pass
47	6185	17.63	17.75	117.509	20.70	5.00	371.596	25.7	30	Pass
79	6345	16.26	16.32	85.122	19.30	5.00	269.179	24.3	30	Pass
143	6665	16.94	17.03	99.897	20.00	5.00	315.902	25	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	12.94	13.24	40.748	16.10	5.00	128.856	21.1	30	Pass
49	6195	13.45	13.53	44.669	16.50	5.00	141.256	21.5	30	Pass
93	6415	13.00	13.11	40.405	16.06	5.00	127.772	21.06	30	Pass
117	6535	13.05	13.11	40.641	16.09	5.00	128.518	21.09	30	Pass
149	6695	13.56	13.65	45.89	16.62	5.00	145.117	21.62	30	Pass
181	6855	13.05	13.09	40.562	16.08	5.00	128.268	21.08	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	15.81	16.03	78.253	18.94	5.00	247.458	23.94	30	Pass
49	6195	16.03	16.14	81.254	19.10	5.00	256.948	24.1	30	Pass
93	6415	15.85	16.03	78.555	18.95	5.00	248.413	23.95	30	Pass
117	6535	15.79	16.02	77.907	18.92	5.00	246.364	23.92	30	Pass
149	6695	16.06	16.13	81.457	19.11	5.00	257.59	24.11	30	Pass
181	6855	15.87	16.00	78.527	18.95	5.00	248.324	23.95	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	18.81	19.02	155.733	21.92	5.00	492.471	26.92	30	Pass
49	6195	18.81	18.90	153.745	21.87	5.00	486.184	26.87	30	Pass
93	6415	18.76	19.00	154.656	21.89	5.00	489.065	26.89	30	Pass
117	6535	18.76	19.00	154.589	21.89	5.00	488.853	26.89	30	Pass
149	6695	18.86	19.05	157.193	21.96	5.00	497.088	26.96	30	Pass
181	6855	18.83	19.17	158.875	22.01	5.00	502.407	27.01	30	Pass

Notes:

1. For U-NII-5, The directional gain is 5 dBi
2. For U-NII-7, The directional gain is 5 dBi

7.2 Maximum Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of low power indoor AP

1TX

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	-6.18	5.00	-1.18	-1	Pass
49	6195	-6.29	5.00	-1.29	-1	Pass
93	6415	-6.23	5.00	-1.23	-1	Pass
97	6435	-6.19	5.00	-1.19	-1	Pass
105	6475	-6.25	5.00	-1.25	-1	Pass
113	6515	-6.24	5.00	-1.24	-1	Pass
117	6535	-6.27	5.00	-1.27	-1	Pass
149	6695	-6.17	5.00	-1.17	-1	Pass
181	6855	-6.23	5.00	-1.23	-1	Pass
185	6875	-6.07	5.00	-1.07	-1	Pass
209	6995	-6.27	5.00	-1.27	-1	Pass
233	7115	-6.20	5.00	-1.2	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	-6.26	5.00	-1.26	-1	Pass
49	6195	-6.14	5.00	-1.14	-1	Pass
93	6415	-6.14	5.00	-1.14	-1	Pass
97	6435	-6.13	5.00	-1.13	-1	Pass
105	6475	-6.31	5.00	-1.31	-1	Pass
113	6515	-6.18	5.00	-1.18	-1	Pass
117	6535	-6.18	5.00	-1.18	-1	Pass
149	6695	-6.24	5.00	-1.24	-1	Pass
181	6855	-6.15	5.00	-1.15	-1	Pass
185	6875	-6.10	5.00	-1.1	-1	Pass
209	6995	-6.19	5.00	-1.19	-1	Pass
233	7115	-6.19	5.00	-1.19	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
3	5965	-6.18	5.00	-1.18	-1	Pass
51	6205	-6.08	5.00	-1.08	-1	Pass
91	6405	-6.18	5.00	-1.18	-1	Pass
99	6445	-6.22	5.00	-1.22	-1	Pass
107	6485	-6.19	5.00	-1.19	-1	Pass
115	6525	-6.11	5.00	-1.11	-1	Pass
123	6565	-6.07	5.00	-1.07	-1	Pass
147	6685	-6.27	5.00	-1.27	-1	Pass
179	6845	-6.14	5.00	-1.14	-1	Pass
187	6885	-6.11	5.00	-1.11	-1	Pass
203	6965	-6.05	5.00	-1.05	-1	Pass
227	7085	-6.09	5.00	-1.09	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
7	5985	-6.28	5.00	-1.28	-1	Pass
55	6225	-6.15	5.00	-1.15	-1	Pass
87	6385	-6.20	5.00	-1.2	-1	Pass
103	6465	-6.15	5.00	-1.15	-1	Pass
119	6545	-6.16	5.00	-1.16	-1	Pass
135	6625	-6.18	5.00	-1.18	-1	Pass
151	6705	-6.22	5.00	-1.22	-1	Pass
167	6785	-6.15	5.00	-1.15	-1	Pass
183	6865	-6.17	5.00	-1.17	-1	Pass
199	6945	-6.18	5.00	-1.18	-1	Pass
215	7025	-6.10	5.00	-1.1	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
15	6025	-6.09	5.00	-1.09	-1	Pass
47	6185	-6.16	5.00	-1.16	-1	Pass
79	6345	-6.16	5.00	-1.16	-1	Pass
111	6505	-6.25	5.00	-1.25	-1	Pass
143	6665	-6.11	5.00	-1.11	-1	Pass
175	6825	-6.16	5.00	-1.16	-1	Pass
207	6985	-6.28	5.00	-1.28	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	-6.02	5.00	-1.02	-1	Pass
49	6195	-6.12	5.00	-1.12	-1	Pass
93	6415	-6.13	5.00	-1.13	-1	Pass
97	6435	-6.06	5.00	-1.06	-1	Pass
105	6475	-6.13	5.00	-1.13	-1	Pass
113	6515	-6.17	5.00	-1.17	-1	Pass
117	6535	-6.06	5.00	-1.06	-1	Pass
149	6695	-6.12	5.00	-1.12	-1	Pass
181	6855	-6.10	5.00	-1.1	-1	Pass
185	6875	-6.14	5.00	-1.14	-1	Pass
209	6995	-6.13	5.00	-1.13	-1	Pass
233	7115	-6.17	5.00	-1.17	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	-6.13	5.00	-1.13	-1	Pass
49	6195	-6.16	5.00	-1.16	-1	Pass
93	6415	-6.05	5.00	-1.05	-1	Pass
97	6435	-6.02	5.00	-1.02	-1	Pass
105	6475	-6.04	5.00	-1.04	-1	Pass
113	6515	-6.04	5.00	-1.04	-1	Pass
117	6535	-6.03	5.00	-1.03	-1	Pass
149	6695	-6.09	5.00	-1.09	-1	Pass
181	6855	-6.21	5.00	-1.21	-1	Pass
185	6875	-6.09	5.00	-1.09	-1	Pass
209	6995	-6.07	5.00	-1.07	-1	Pass
233	7115	-6.04	5.00	-1.04	-1	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

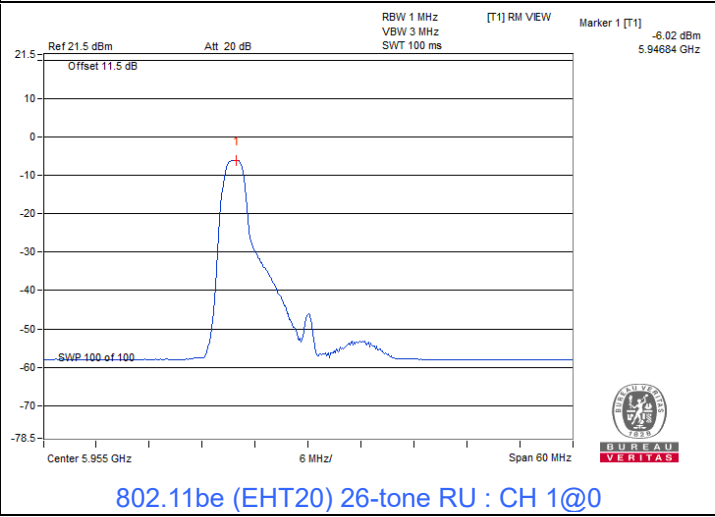
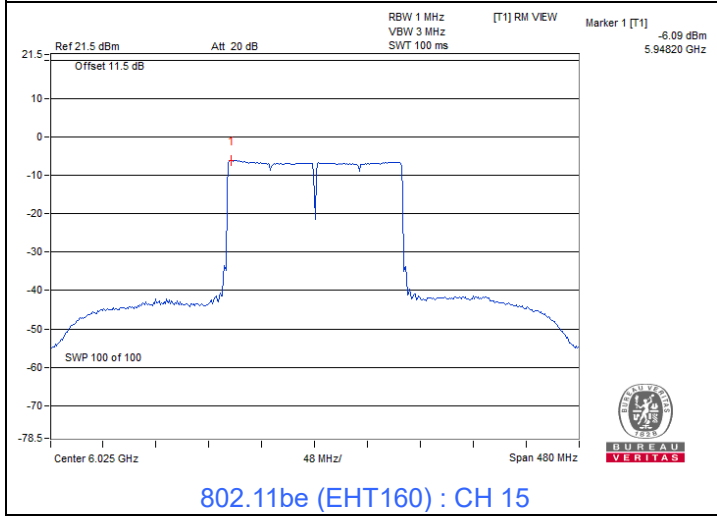
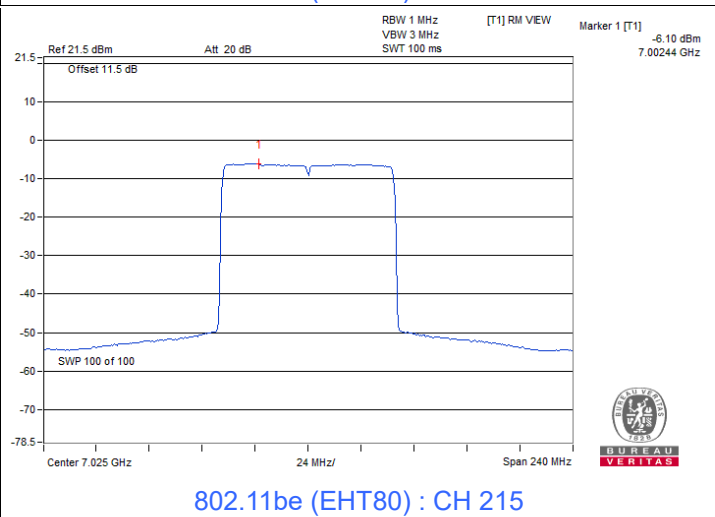
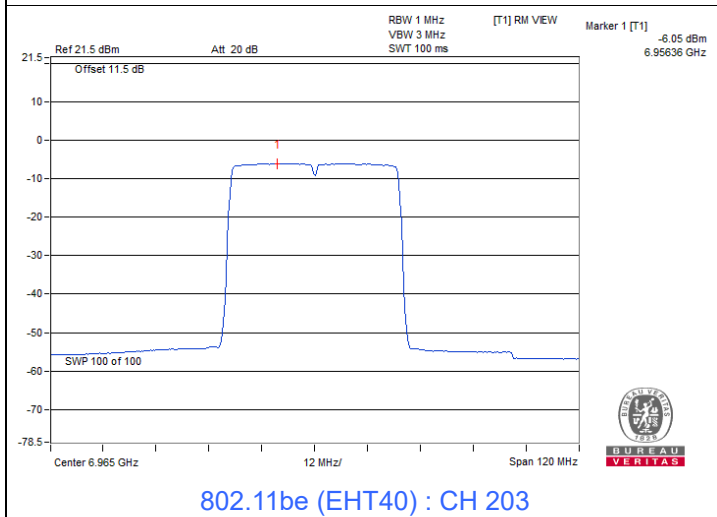
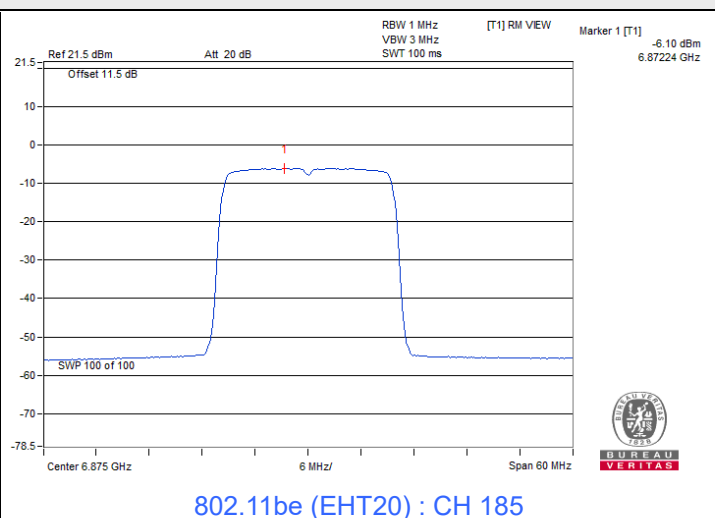
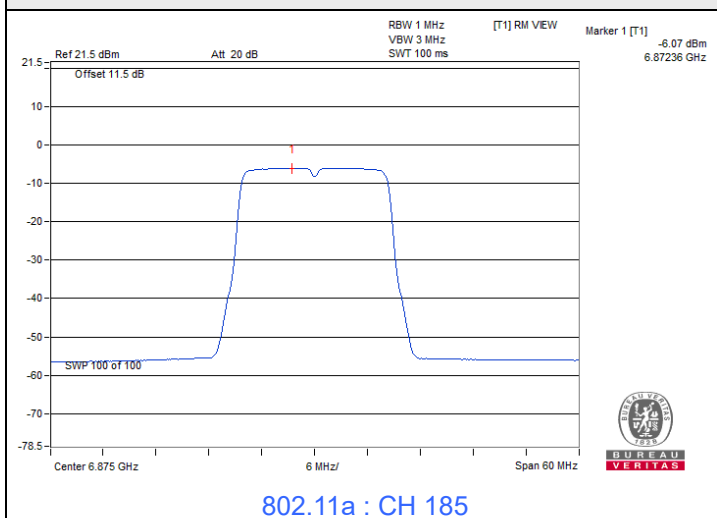
802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	-6.17	5.00	-1.17	-1	Pass
49	6195	-6.18	5.00	-1.18	-1	Pass
93	6415	-6.12	5.00	-1.12	-1	Pass
97	6435	-6.13	5.00	-1.13	-1	Pass
105	6475	-6.08	5.00	-1.08	-1	Pass
113	6515	-6.10	5.00	-1.1	-1	Pass
117	6535	-6.09	5.00	-1.09	-1	Pass
149	6695	-6.20	5.00	-1.2	-1	Pass
181	6855	-6.10	5.00	-1.1	-1	Pass
185	6875	-6.06	5.00	-1.06	-1	Pass
209	6995	-6.20	5.00	-1.2	-1	Pass
233	7115	-6.21	5.00	-1.21	-1	Pass

Notes:

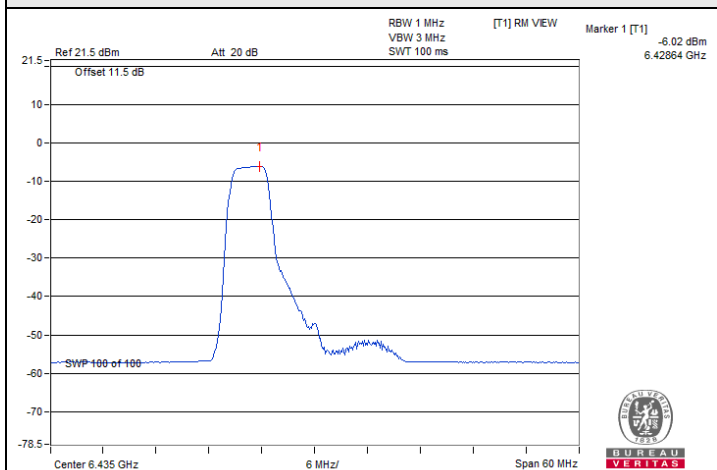
1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-6, The antenna gain is 5 dBi
3. For U-NII-7, The antenna gain is 5 dBi
4. For U-NII-8, The antenna gain is 5 dBi

Spectrum Plot of Maximum Value

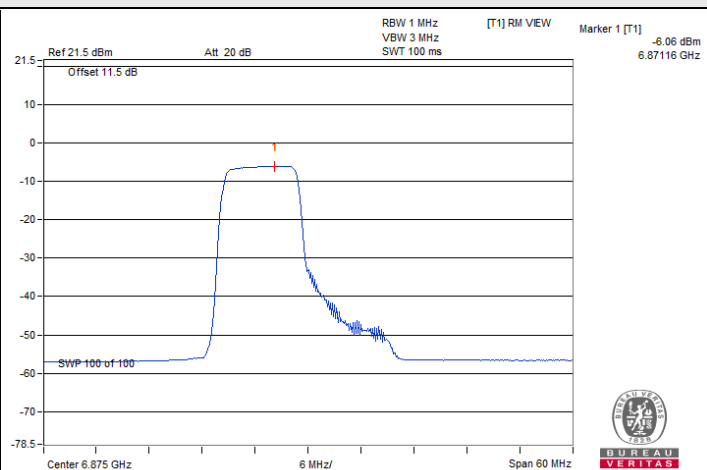




Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU : CH 97@37



802.11be (EHT20) 106-tone RU : CH 185@53

2TX

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	-12.20	-11.98	-9.08	8.01	-1.07	-1	Pass
49	6195	-11.99	-12.09	-9.03	8.01	-1.02	-1	Pass
93	6415	-12.58	-12.09	-9.32	8.01	-1.31	-1	Pass
97	6435	-12.33	-11.97	-9.14	8.01	-1.13	-1	Pass
105	6475	-12.46	-12.04	-9.23	8.01	-1.22	-1	Pass
113	6515	-12.31	-12.10	-9.19	8.01	-1.18	-1	Pass
117	6535	-12.37	-11.97	-9.16	8.01	-1.15	-1	Pass
149	6695	-12.35	-12.11	-9.22	8.01	-1.21	-1	Pass
181	6855	-12.27	-11.98	-9.11	8.01	-1.1	-1	Pass
185	6875	-12.44	-11.90	-9.15	8.01	-1.14	-1	Pass
209	6995	-12.33	-12.02	-9.16	8.01	-1.15	-1	Pass
233	7115	-12.48	-12.06	-9.25	8.01	-1.24	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 1) = gain of antenna element + 3.01 Db
3. For U-NII-5, The directional gain is 8.01 dBi
4. For U-NII-6, The directional gain is 8.01 dBi
5. For U-NII-7, The directional gain is 8.01 dBi
6. For U-NII-8, The directional gain is 8.01 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	-9.45	-8.97	-6.19	5.00	-1.19	-1	Pass
49	6195	-9.26	-8.98	-6.11	5.00	-1.11	-1	Pass
93	6415	-9.29	-9.38	-6.32	5.00	-1.32	-1	Pass
97	6435	-9.26	-9.07	-6.15	5.00	-1.15	-1	Pass
105	6475	-9.23	-9.03	-6.12	5.00	-1.12	-1	Pass
113	6515	-9.59	-8.87	-6.20	5.00	-1.2	-1	Pass
117	6535	-9.46	-8.90	-6.16	5.00	-1.16	-1	Pass
149	6695	-9.18	-8.90	-6.03	5.00	-1.03	-1	Pass
181	6855	-9.32	-9.11	-6.20	5.00	-1.2	-1	Pass
185	6875	-9.30	-9.20	-6.24	5.00	-1.24	-1	Pass
209	6995	-9.33	-9.14	-6.22	5.00	-1.22	-1	Pass
233	7115	-9.19	-8.90	-6.03	5.00	-1.03	-1	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + $10 \log(2 \text{ of TX antenna elements/NSS } 2)$ = gain of antenna element + 0 dB
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-6, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi
- For U-NII-8, The directional gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
3	5965	-9.27	-9.01	-6.13	5.00	-1.13	-1	Pass
51	6205	-9.19	-9.07	-6.12	5.00	-1.12	-1	Pass
91	6405	-9.10	-9.04	-6.06	5.00	-1.06	-1	Pass
99	6445	-9.32	-9.01	-6.15	5.00	-1.15	-1	Pass
107	6485	-9.36	-9.07	-6.20	5.00	-1.2	-1	Pass
115	6525	-9.45	-9.21	-6.32	5.00	-1.32	-1	Pass
123	6565	-9.29	-9.27	-6.27	5.00	-1.27	-1	Pass
147	6685	-9.30	-8.92	-6.10	5.00	-1.1	-1	Pass
179	6845	-9.32	-9.17	-6.23	5.00	-1.23	-1	Pass
187	6885	-9.42	-9.21	-6.30	5.00	-1.3	-1	Pass
203	6965	-9.46	-8.90	-6.16	5.00	-1.16	-1	Pass
227	7085	-9.37	-8.85	-6.09	5.00	-1.09	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-6, The directional gain is 5 dBi
6. For U-NII-7, The directional gain is 5 dBi
7. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
7	5985	-9.39	-8.95	-6.15	5.00	-1.15	-1	Pass
55	6225	-9.19	-9.31	-6.24	5.00	-1.24	-1	Pass
87	6385	-9.22	-9.06	-6.13	5.00	-1.13	-1	Pass
103	6465	-9.34	-8.95	-6.13	5.00	-1.13	-1	Pass
119	6545	-9.45	-8.77	-6.09	5.00	-1.09	-1	Pass
135	6625	-9.32	-9.18	-6.24	5.00	-1.24	-1	Pass
151	6705	-9.38	-9.06	-6.21	5.00	-1.21	-1	Pass
167	6785	-9.38	-9.05	-6.20	5.00	-1.2	-1	Pass
183	6865	-9.36	-9.11	-6.22	5.00	-1.22	-1	Pass
199	6945	-9.19	-9.19	-6.18	5.00	-1.18	-1	Pass
215	7025	-9.35	-8.98	-6.15	5.00	-1.15	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + $10 \log(2 \text{ of TX antenna elements/NSS } 2)$ = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-6, The directional gain is 5 dBi
6. For U-NII-7, The directional gain is 5 dBi
7. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
15	6025	-9.50	-8.63	-6.03	5.00	-1.03	-1	Pass
47	6185	-9.45	-9.26	-6.34	5.00	-1.34	-1	Pass
79	6345	-9.41	-9.08	-6.23	5.00	-1.23	-1	Pass
111	6505	-9.86	-8.98	-6.39	5.00	-1.39	-1	Pass
143	6665	-9.44	-8.90	-6.15	5.00	-1.15	-1	Pass
175	6825	-9.09	-9.20	-6.13	5.00	-1.13	-1	Pass
207	6985	-9.50	-9.04	-6.25	5.00	-1.25	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + $10 \log (2 \text{ of TX antenna elements}/\text{NSS } 2) = \text{gain of antenna element} + 0 \text{ dB}$
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-6, The directional gain is 5 dBi
6. For U-NII-7, The directional gain is 5 dBi
7. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	-9.15	-9.12	-6.12	5.00	-1.12	-1	Pass
49	6195	-9.18	-9.00	-6.08	5.00	-1.08	-1	Pass
93	6415	-9.14	-9.05	-6.08	5.00	-1.08	-1	Pass
97	6435	-9.12	-9.10	-6.10	5.00	-1.1	-1	Pass
105	6475	-9.41	-9.06	-6.22	5.00	-1.22	-1	Pass
113	6515	-9.24	-9.17	-6.19	5.00	-1.19	-1	Pass
117	6535	-9.12	-9.08	-6.09	5.00	-1.09	-1	Pass
149	6695	-9.04	-9.24	-6.13	5.00	-1.13	-1	Pass
181	6855	-9.16	-9.10	-6.12	5.00	-1.12	-1	Pass
185	6875	-9.05	-9.07	-6.05	5.00	-1.05	-1	Pass
209	6995	-9.11	-9.02	-6.05	5.00	-1.05	-1	Pass
233	7115	-9.03	-9.14	-6.07	5.00	-1.07	-1	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + $10 \log (2 \text{ of TX antenna elements} / \text{NSS } 2) = \text{gain of antenna element} + 0 \text{ dB}$
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-6, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi
- For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	-9.27	-9.01	-6.13	5.00	-1.13	-1	Pass
49	6195	-9.12	-8.99	-6.04	5.00	-1.04	-1	Pass
93	6415	-9.16	-8.97	-6.05	5.00	-1.05	-1	Pass
97	6435	-9.08	-9.07	-6.06	5.00	-1.06	-1	Pass
105	6475	-9.18	-9.20	-6.18	5.00	-1.18	-1	Pass
113	6515	-9.15	-9.03	-6.08	5.00	-1.08	-1	Pass
117	6535	-9.19	-9.06	-6.11	5.00	-1.11	-1	Pass
149	6695	-9.17	-9.04	-6.09	5.00	-1.09	-1	Pass
181	6855	-9.11	-9.18	-6.13	5.00	-1.13	-1	Pass
185	6875	-9.21	-9.18	-6.18	5.00	-1.18	-1	Pass
209	6995	-9.15	-9.16	-6.14	5.00	-1.14	-1	Pass
233	7115	-9.21	-9.15	-6.17	5.00	-1.17	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-6, The directional gain is 5 dBi
6. For U-NII-7, The directional gain is 5 dBi
7. For U-NII-8, The directional gain is 5 dBi

802.11be (EHT20) 106-tone RU

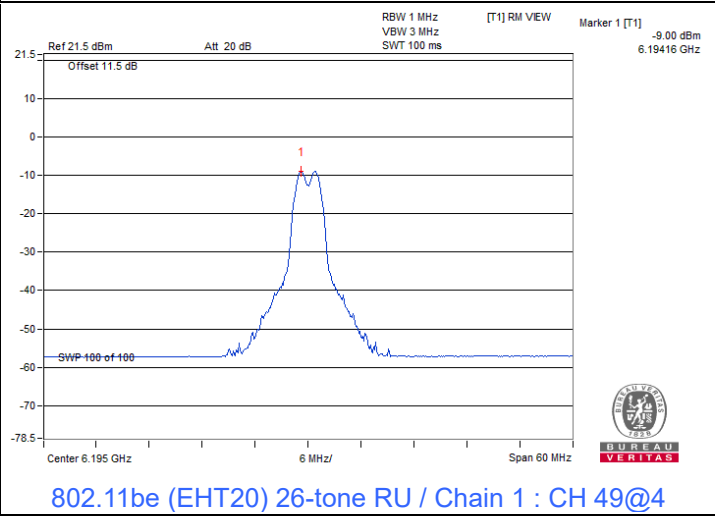
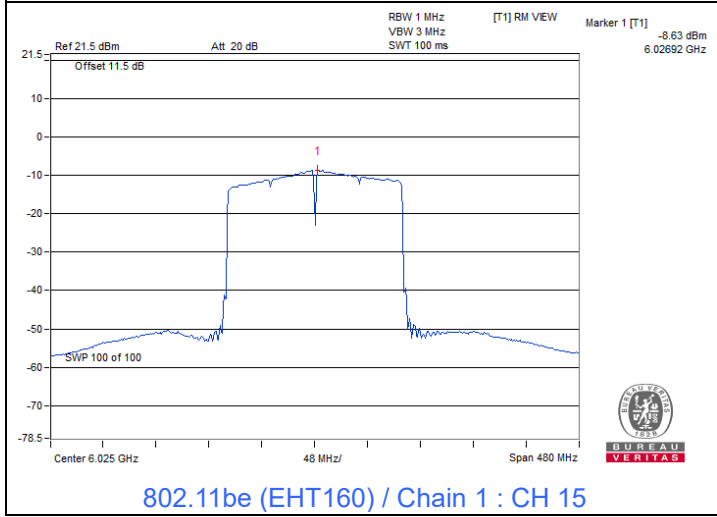
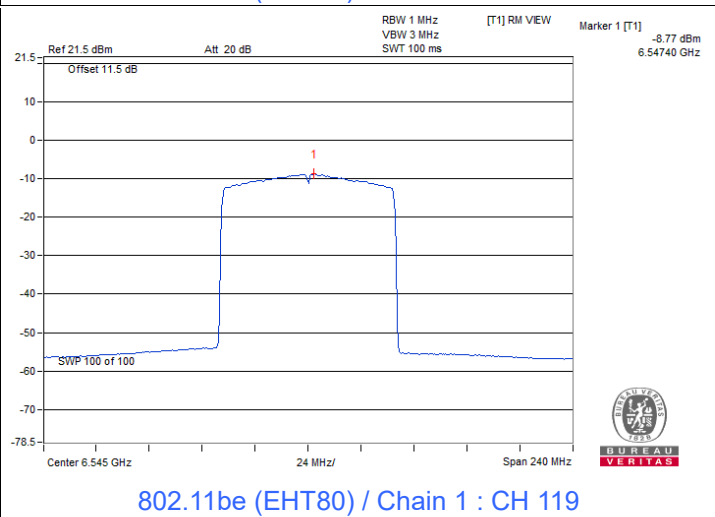
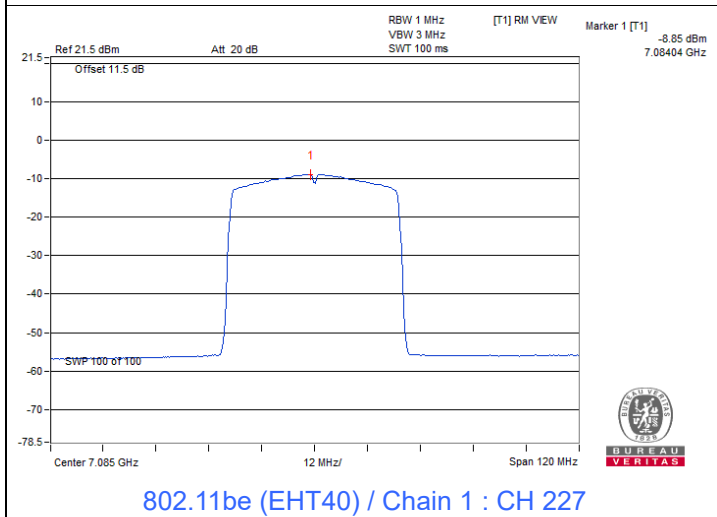
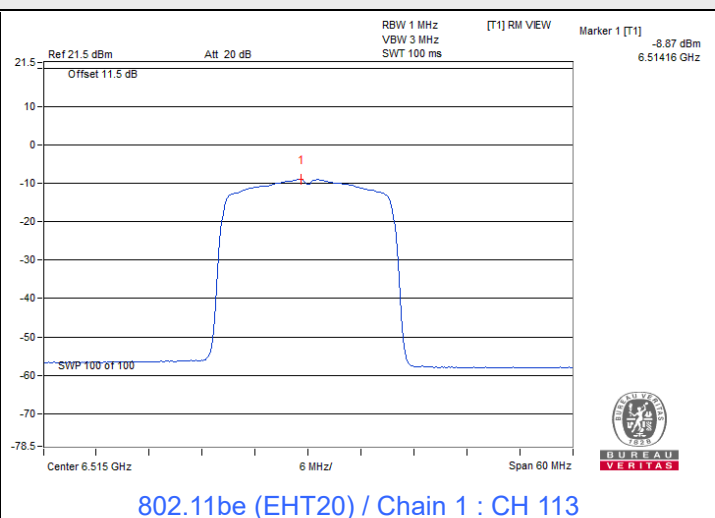
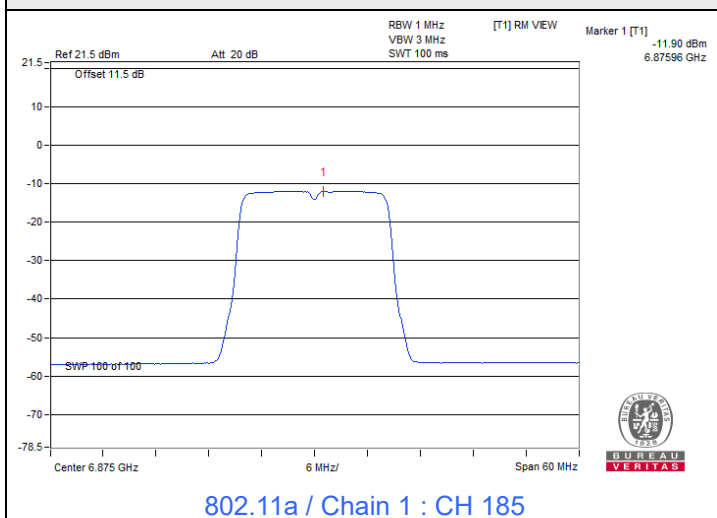
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	-9.33	-9.09	-6.20	5.00	-1.2	-1	Pass
49	6195	-9.17	-9.06	-6.10	5.00	-1.1	-1	Pass
93	6415	-9.09	-9.16	-6.11	5.00	-1.11	-1	Pass
97	6435	-9.23	-9.04	-6.12	5.00	-1.12	-1	Pass
105	6475	-9.04	-9.02	-6.02	5.00	-1.02	-1	Pass
113	6515	-9.09	-9.12	-6.09	5.00	-1.09	-1	Pass
117	6535	-9.21	-9.01	-6.10	5.00	-1.1	-1	Pass
149	6695	-9.22	-8.93	-6.06	5.00	-1.06	-1	Pass
181	6855	-9.19	-9.10	-6.13	5.00	-1.13	-1	Pass
185	6875	-9.29	-9.03	-6.15	5.00	-1.15	-1	Pass
209	6995	-9.20	-9.07	-6.12	5.00	-1.12	-1	Pass
233	7115	-9.28	-9.13	-6.19	5.00	-1.19	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-6, The directional gain is 5 dBi
6. For U-NII-7, The directional gain is 5 dBi
7. For U-NII-8, The directional gain is 5 dBi

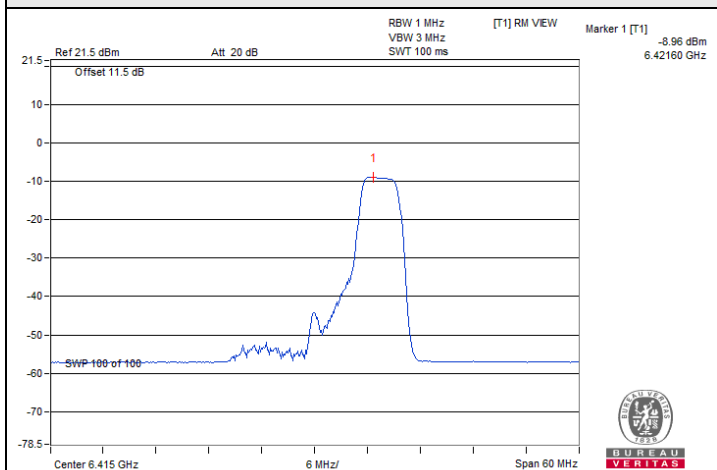


Spectrum Plot of Maximum Value

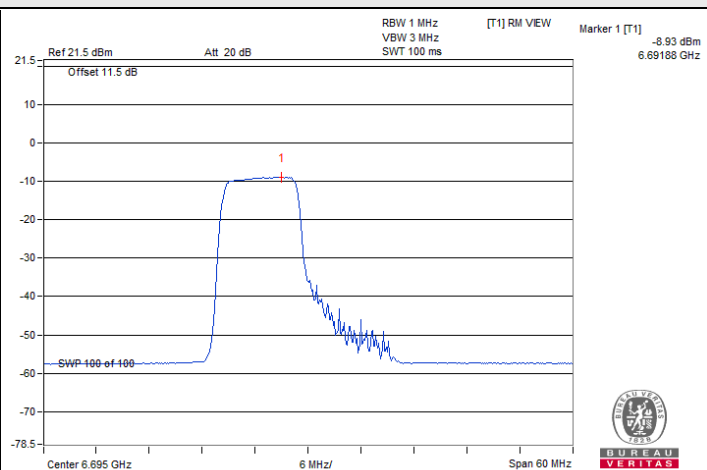




Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU / Chain 1 : CH 93@40



802.11be (EHT20) 106-tone RU / Chain 1 : CH 149@53



Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of standard power AP

1TX

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	9.50	5.00	14.5	17	Pass
49	6195	9.61	5.00	14.61	17	Pass
93	6415	9.21	5.00	14.21	17	Pass
117	6535	9.58	5.00	14.58	17	Pass
149	6695	9.69	5.00	14.69	17	Pass
181	6855	9.70	5.00	14.7	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	9.08	5.00	14.08	17	Pass
49	6195	9.32	5.00	14.32	17	Pass
93	6415	9.18	5.00	14.18	17	Pass
117	6535	9.30	5.00	14.3	17	Pass
149	6695	9.56	5.00	14.56	17	Pass
181	6855	9.07	5.00	14.07	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
3	5965	5.41	5.00	10.41	17	Pass
51	6205	5.51	5.00	10.51	17	Pass
91	6405	5.14	5.00	10.14	17	Pass
123	6565	5.28	5.00	10.28	17	Pass
147	6685	5.54	5.00	10.54	17	Pass
179	6845	5.88	5.00	10.88	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
7	5985	2.67	5.00	7.67	17	Pass
55	6225	2.84	5.00	7.84	17	Pass
87	6385	2.34	5.00	7.34	17	Pass
135	6625	2.30	5.00	7.3	17	Pass
151	6705	2.20	5.00	7.2	17	Pass
167	6785	2.43	5.00	7.43	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
15	6025	-3.61	5.00	1.39	17	Pass
47	6185	-3.62	5.00	1.38	17	Pass
79	6345	-5.68	5.00	-0.68	17	Pass
143	6665	-4.14	5.00	0.86	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	11.82	5.00	16.82	17	Pass
49	6195	11.62	5.00	16.62	17	Pass
93	6415	11.72	5.00	16.72	17	Pass
117	6535	11.67	5.00	16.67	17	Pass
149	6695	11.68	5.00	16.68	17	Pass
181	6855	11.67	5.00	16.67	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	11.80	5.00	16.8	17	Pass
49	6195	11.76	5.00	16.76	17	Pass
93	6415	11.72	5.00	16.72	17	Pass
117	6535	11.67	5.00	16.67	17	Pass
149	6695	11.84	5.00	16.84	17	Pass
181	6855	11.86	5.00	16.86	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

802.11be (EHT20) 106-tone RU

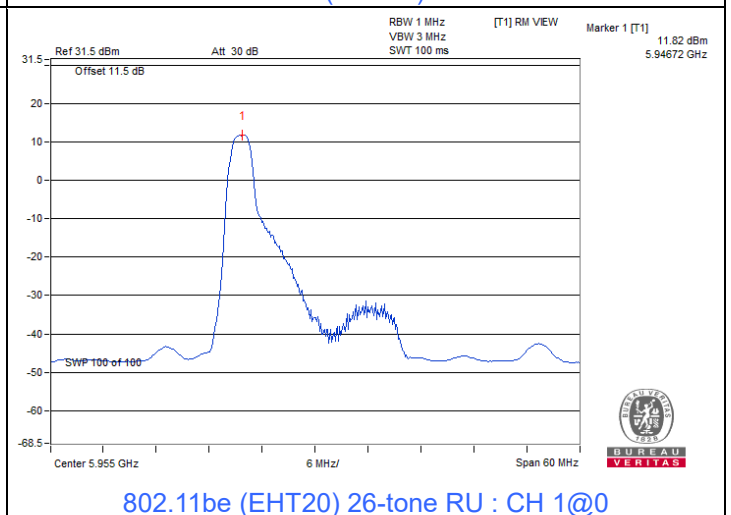
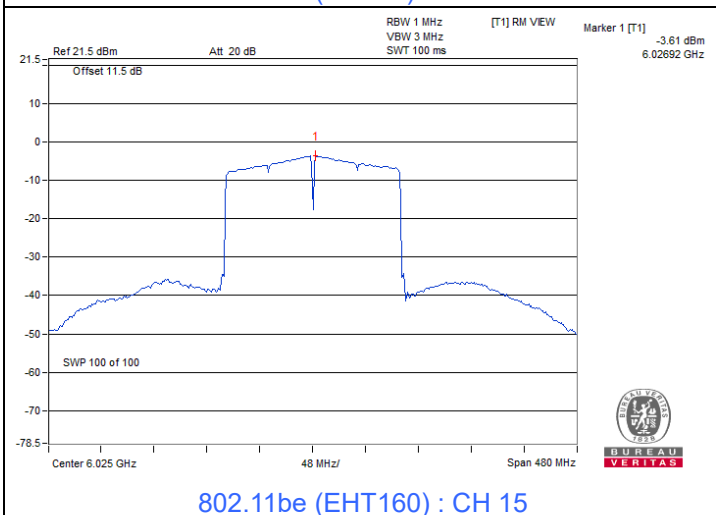
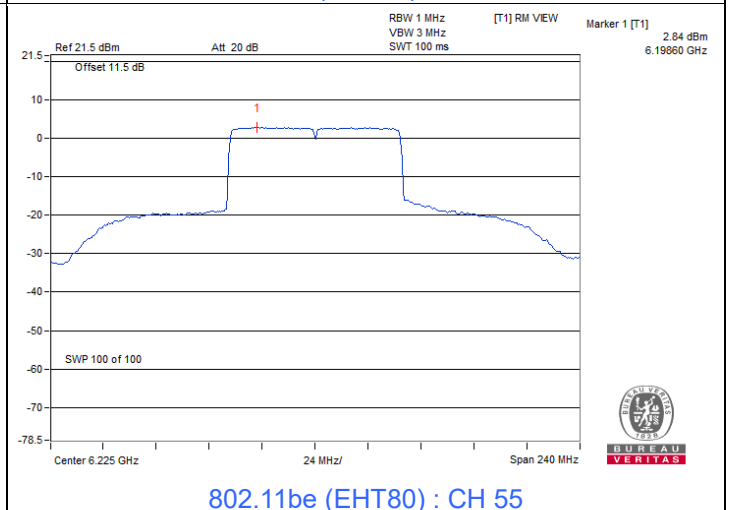
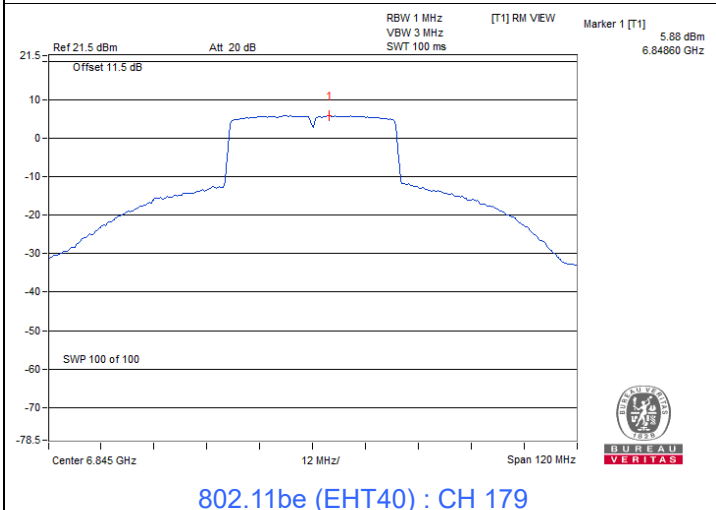
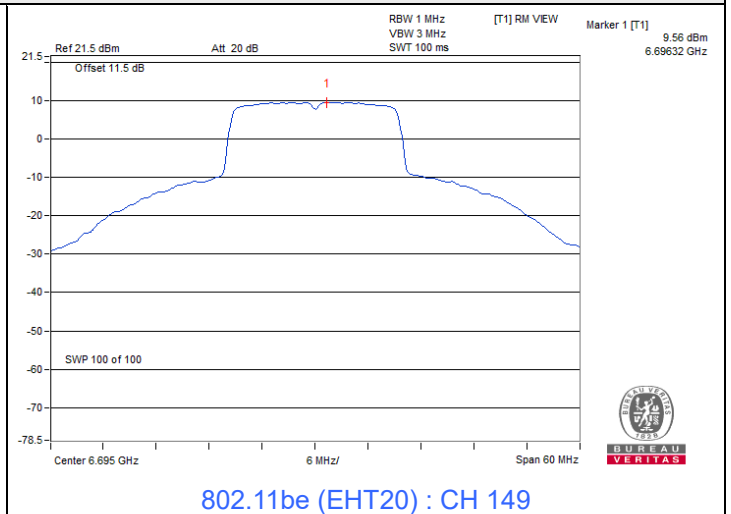
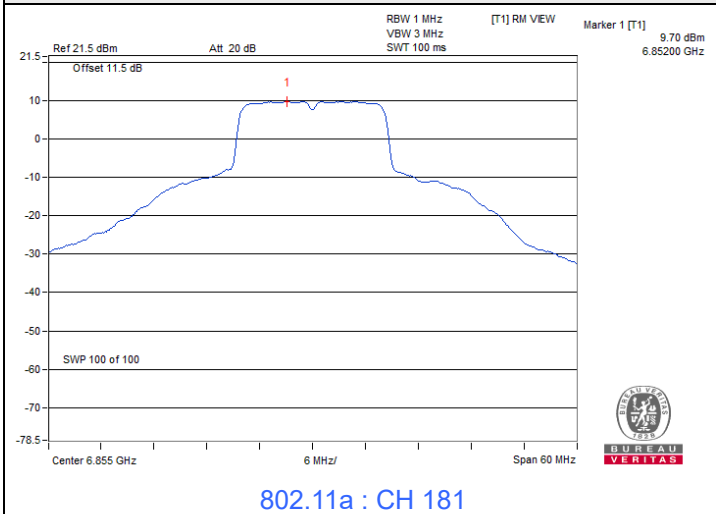
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	11.76	5.00	16.76	17	Pass
49	6195	11.74	5.00	16.74	17	Pass
93	6415	11.60	5.00	16.6	17	Pass
117	6535	11.80	5.00	16.8	17	Pass
149	6695	11.66	5.00	16.66	17	Pass
181	6855	11.62	5.00	16.62	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 5 dBi
2. For U-NII-7, The antenna gain is 5 dBi

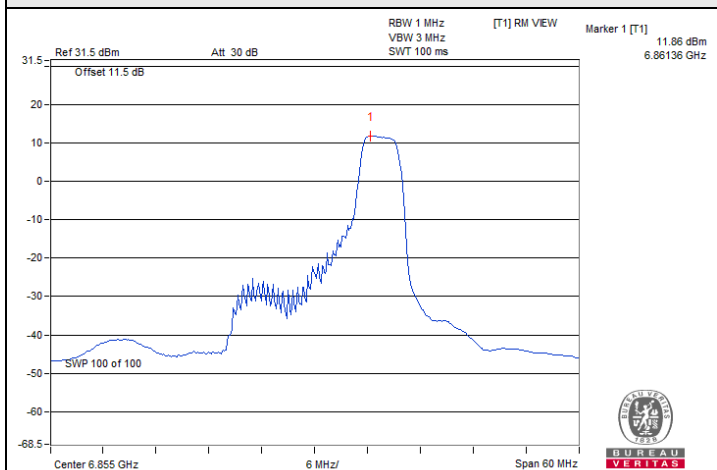


Spectrum Plot of Maximum Value

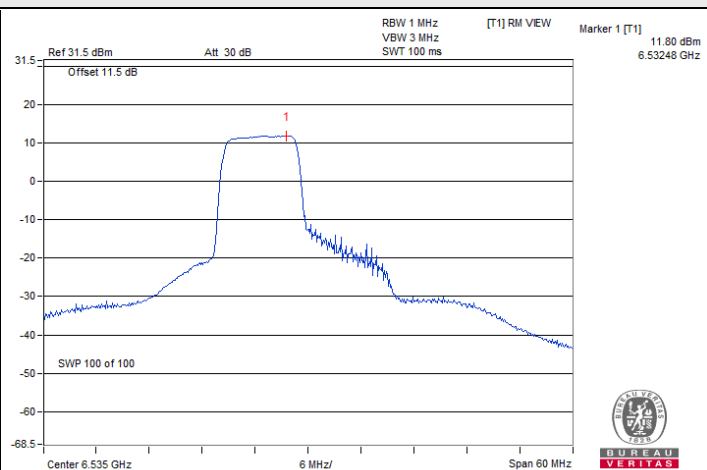




Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU : CH 181@40



802.11be (EHT20) 106-tone RU : CH 117@53

2TX
802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	5.60	5.85	8.74	8.01	16.75	17	Pass
49	6195	5.64	5.88	8.77	8.01	16.78	17	Pass
93	6415	5.59	5.79	8.70	8.01	16.71	17	Pass
117	6535	5.70	5.82	8.77	8.01	16.78	17	Pass
149	6695	5.66	5.83	8.76	8.01	16.77	17	Pass
181	6855	5.65	5.82	8.75	8.01	16.76	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 1) = gain of antenna element + 3.01 dB
3. For U-NII-5, The directional gain is 8.01 dBi
4. For U-NII-7, The directional gain is 8.01 dBi

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	8.77	8.75	11.77	5.00	16.77	17	Pass
49	6195	8.54	8.67	11.62	5.00	16.62	17	Pass
93	6415	8.51	8.05	11.30	5.00	16.3	17	Pass
117	6535	8.62	8.69	11.67	5.00	16.67	17	Pass
149	6695	8.39	8.78	11.60	5.00	16.6	17	Pass
181	6855	8.60	8.68	11.65	5.00	16.65	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
3	5965	2.99	3.07	6.04	5.00	11.04	17	Pass
51	6205	5.61	5.94	8.79	5.00	13.79	17	Pass
91	6405	5.53	5.65	8.60	5.00	13.6	17	Pass
123	6565	5.60	5.72	8.67	5.00	13.67	17	Pass
147	6685	5.43	5.70	8.58	5.00	13.58	17	Pass
179	6845	5.46	5.52	8.50	5.00	13.5	17	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
7	5985	-1.15	-0.92	1.98	5.00	6.98	17	Pass
55	6225	2.80	3.06	5.94	5.00	10.94	17	Pass
87	6385	2.84	3.16	6.01	5.00	11.01	17	Pass
135	6625	2.98	3.19	6.10	5.00	11.1	17	Pass
151	6705	2.84	3.19	6.03	5.00	11.03	17	Pass
167	6785	2.80	3.28	6.06	5.00	11.06	17	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
15	6025	-3.50	-3.56	-0.52	5.00	4.48	17	Pass
47	6185	-3.72	-3.68	-0.69	5.00	4.31	17	Pass
79	6345	-5.78	-5.71	-2.73	5.00	2.27	17	Pass
143	6665	-4.21	-4.16	-1.17	5.00	3.83	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	8.64	8.90	11.78	5.00	16.78	17	Pass
49	6195	8.67	8.80	11.75	5.00	16.75	17	Pass
93	6415	8.70	8.88	11.80	5.00	16.8	17	Pass
117	6535	8.65	8.89	11.78	5.00	16.78	17	Pass
149	6695	8.81	8.84	11.84	5.00	16.84	17	Pass
181	6855	8.63	8.92	11.79	5.00	16.79	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 802.11ax and 802.11be, CDD mode only support NSS2.
3. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
4. For U-NII-5, The directional gain is 5 dBi
5. For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	8.85	9.06	11.97	5.00	16.97	17	Pass
49	6195	8.67	9.01	11.85	5.00	16.85	17	Pass
93	6415	8.62	8.91	11.78	5.00	16.78	17	Pass
117	6535	8.68	9.02	11.86	5.00	16.86	17	Pass
149	6695	8.63	8.96	11.81	5.00	16.81	17	Pass
181	6855	8.64	9.05	11.86	5.00	16.86	17	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi

802.11be (EHT20) 106-tone RU

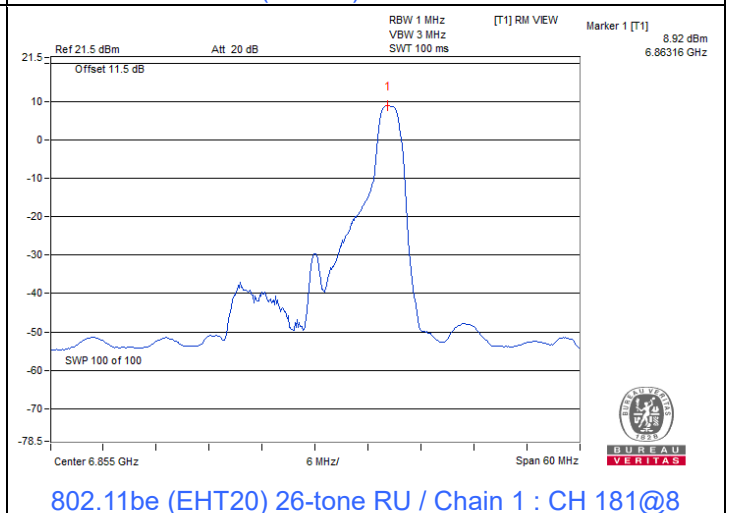
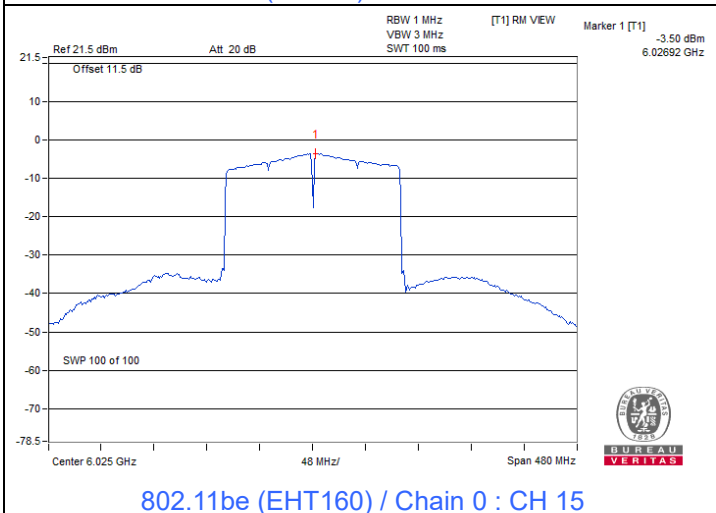
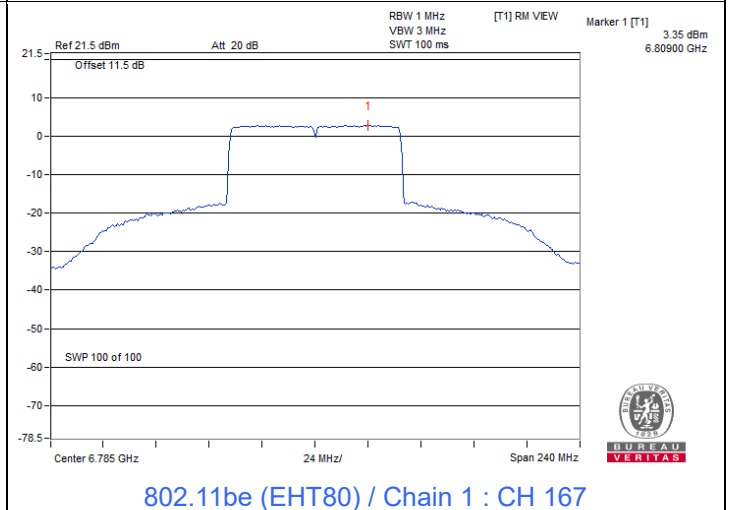
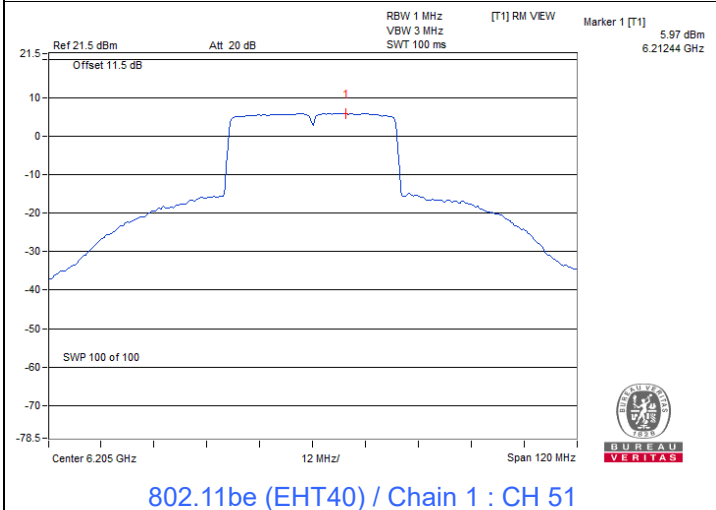
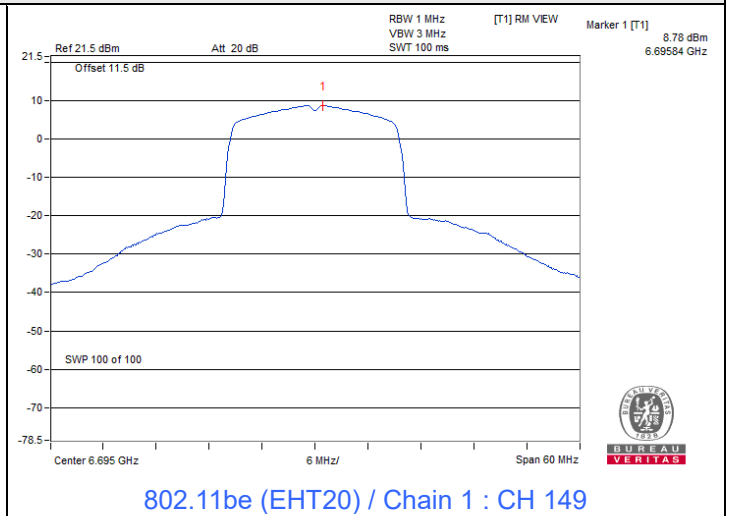
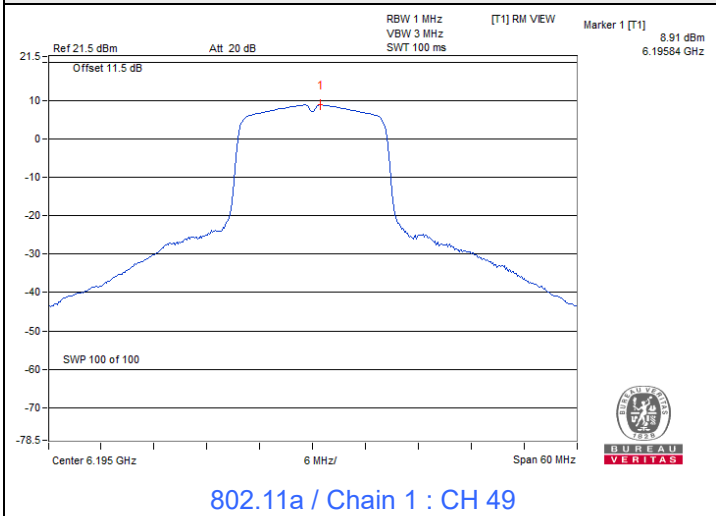
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
1	5955	8.45	8.88	11.68	5.00	16.68	17	Pass
49	6195	8.66	8.86	11.77	5.00	16.77	17	Pass
93	6415	8.53	8.75	11.65	5.00	16.65	17	Pass
117	6535	8.62	8.81	11.73	5.00	16.73	17	Pass
149	6695	8.65	8.88	11.78	5.00	16.78	17	Pass
181	6855	8.57	8.92	11.76	5.00	16.76	17	Pass

Notes:

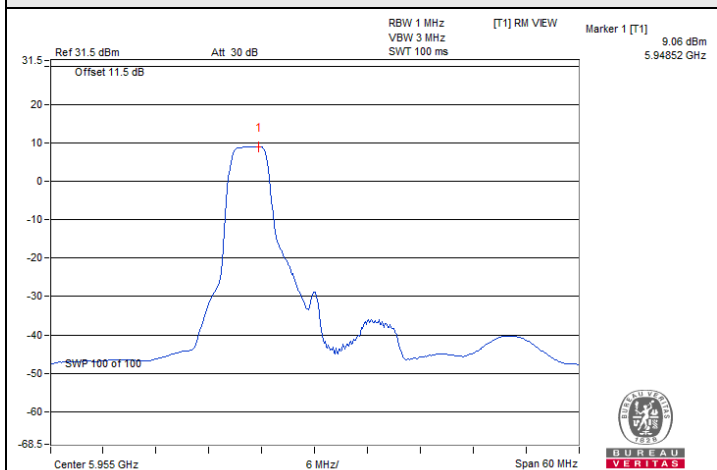
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For 802.11ax and 802.11be, CDD mode only support NSS2.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements/NSS 2) = gain of antenna element + 0 dB
- For U-NII-5, The directional gain is 5 dBi
- For U-NII-7, The directional gain is 5 dBi



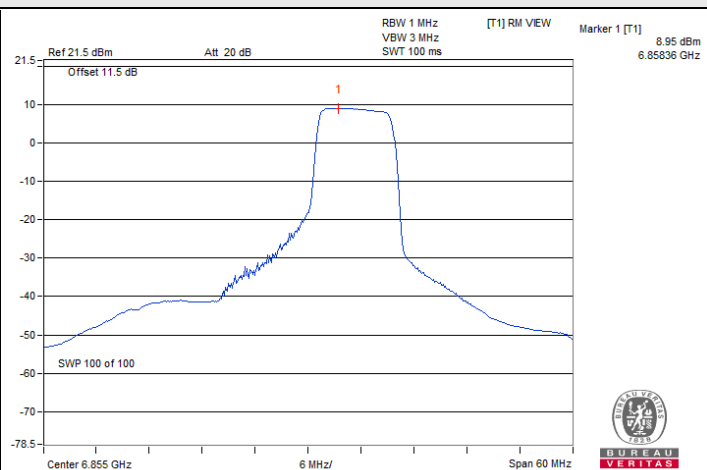
Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU / Chain 1 : CH 1@37



802.11be (EHT20) 106-tone RU / Chain 1 : CH 181@54

7.3 Emission Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of low power indoor AP

1TX

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	18.73	320	Pass
49	6195	18.61	320	Pass
93	6415	18.73	320	Pass
97	6435	18.79	320	Pass
105	6475	18.71	320	Pass
113	6515	18.84	320	Pass
117	6535	18.64	320	Pass
149	6695	18.6	320	Pass
181	6855	18.74	320	Pass
185	6875	18.69	320	Pass
209	6995	18.73	320	Pass
233	7115	18.68	320	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	20.85	320	Pass
49	6195	20.85	320	Pass
93	6415	20.95	320	Pass
97	6435	20.78	320	Pass
105	6475	20.83	320	Pass
113	6515	20.89	320	Pass
117	6535	20.89	320	Pass
149	6695	21.27	320	Pass
181	6855	20.82	320	Pass
185	6875	20.85	320	Pass
209	6995	20.75	320	Pass
233	7115	20.78	320	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
3	5965	40.53	320	Pass
51	6205	40.78	320	Pass
91	6405	40.74	320	Pass
99	6445	40.65	320	Pass
107	6485	40.61	320	Pass
115	6525	40.63	320	Pass
123	6565	40.87	320	Pass
147	6685	40.7	320	Pass
179	6845	40.53	320	Pass
187	6885	40.67	320	Pass
203	6965	40.7	320	Pass
227	7085	40.53	320	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
7	5985	80.69	320	Pass
55	6225	80.64	320	Pass
87	6385	80.72	320	Pass
103	6465	80.64	320	Pass
119	6545	80.59	320	Pass
135	6625	80.63	320	Pass
151	6705	80.64	320	Pass
167	6785	80.69	320	Pass
183	6865	80.73	320	Pass
199	6945	81.36	320	Pass
215	7025	81.36	320	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
15	6025	238.76	320	Pass
47	6185	230.51	320	Pass
79	6345	219.7	320	Pass
111	6505	228.4	320	Pass
143	6665	231.72	320	Pass
175	6825	230.47	320	Pass
207	6985	231	320	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.54	320	Pass
49	6195	18.12	320	Pass
93	6415	19.49	320	Pass
97	6435	19.51	320	Pass
105	6475	18.14	320	Pass
113	6515	19.4	320	Pass
117	6535	19.56	320	Pass
149	6695	18.31	320	Pass
181	6855	19.43	320	Pass
185	6875	19.53	320	Pass
209	6995	18.26	320	Pass
233	7115	19.58	320	Pass

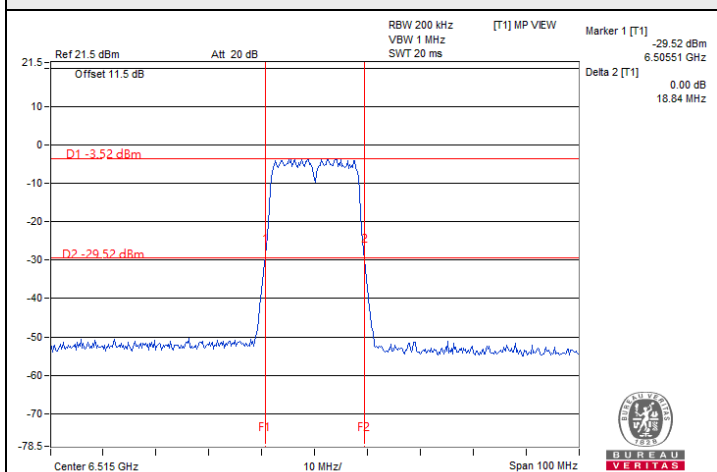
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.59	320	Pass
49	6195	18.37	320	Pass
93	6415	19.49	320	Pass
97	6435	19.45	320	Pass
105	6475	18.43	320	Pass
113	6515	19.57	320	Pass
117	6535	19.55	320	Pass
149	6695	18.46	320	Pass
181	6855	19.42	320	Pass
185	6875	19.75	320	Pass
209	6995	18.26	320	Pass
233	7115	19.61	320	Pass

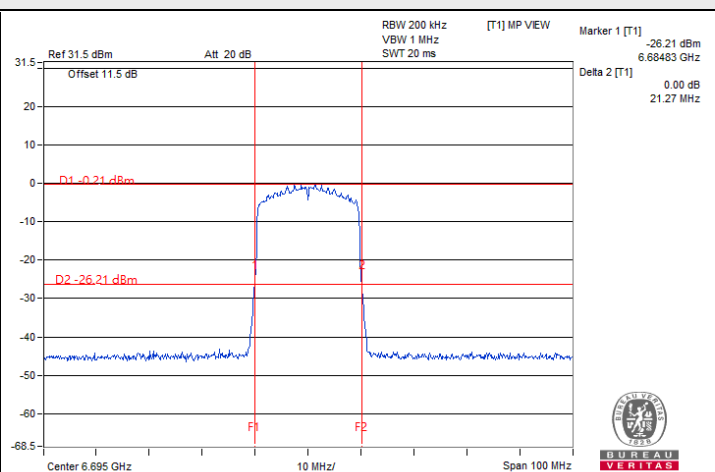
802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.7	320	Pass
49	6195	19.69	320	Pass
93	6415	19.56	320	Pass
97	6435	19.62	320	Pass
105	6475	19.63	320	Pass
113	6515	19.7	320	Pass
117	6535	19.67	320	Pass
149	6695	19.76	320	Pass
181	6855	19.58	320	Pass
185	6875	19.55	320	Pass
209	6995	19.66	320	Pass
233	7115	19.53	320	Pass

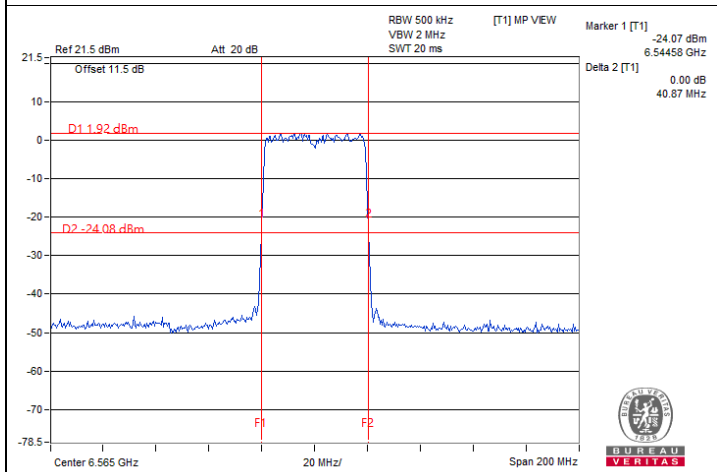
Spectrum Plot of Maximum Value



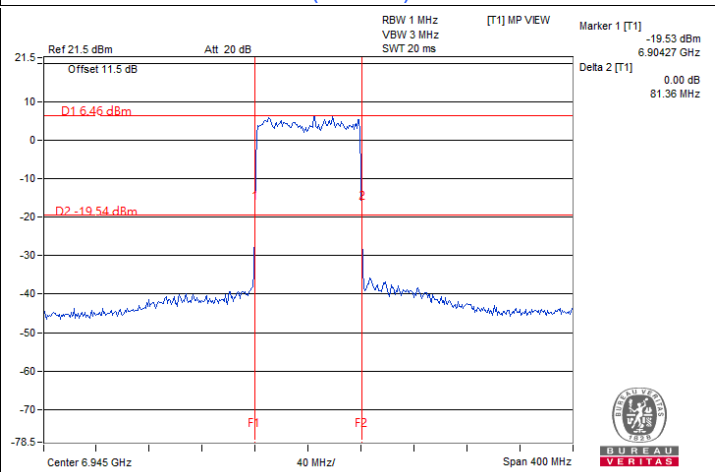
802.11a : CH 113



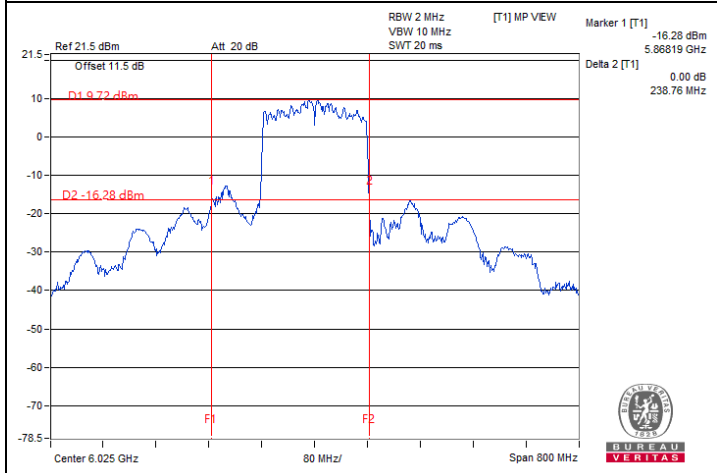
802.11be (EHT20) : CH 149



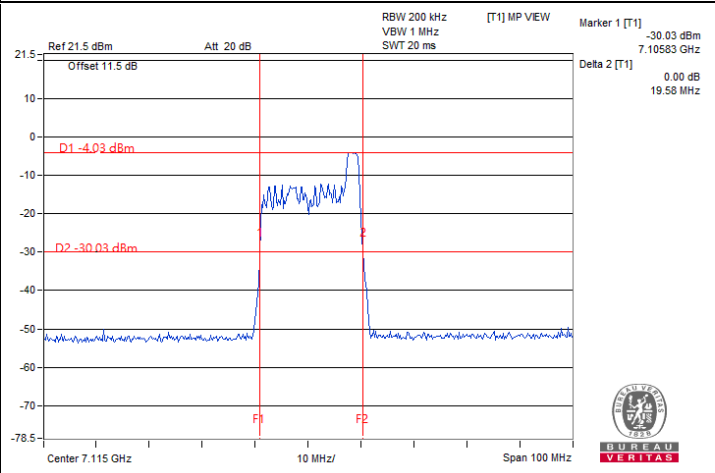
802.11be (EHT40) : CH 123



802.11be (EHT80) : CH 199

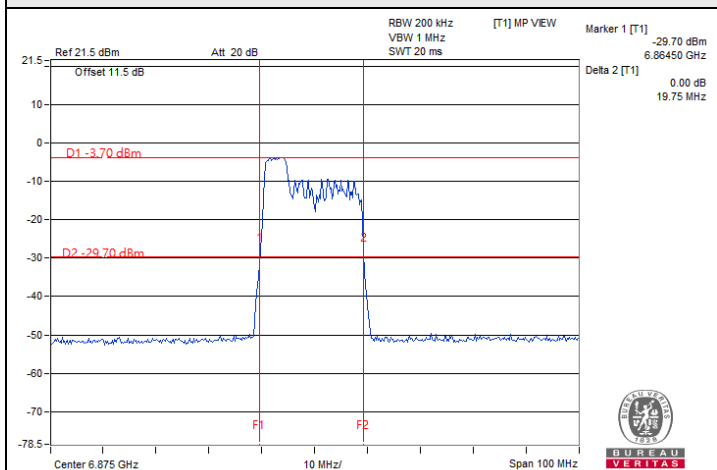


802.11be (EHT160) : CH 15

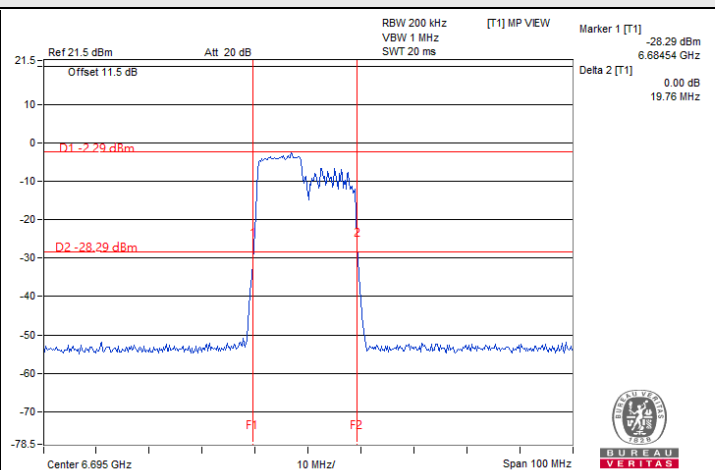


802.11be (EHT20) 26-tone RU : CH 233@8

Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU : CH 185@37



802.11be (EHT20) 106-tone RU : CH 149@53

2TX
802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	18.74	18.65	320	Pass
49	6195	18.68	18.62	320	Pass
93	6415	18.75	18.55	320	Pass
97	6435	18.84	18.56	320	Pass
105	6475	18.73	18.55	320	Pass
113	6515	18.67	18.56	320	Pass
117	6535	18.67	18.60	320	Pass
149	6695	18.62	18.62	320	Pass
181	6855	18.62	18.62	320	Pass
185	6875	18.68	18.73	320	Pass
209	6995	18.81	18.66	320	Pass
233	7115	18.87	18.66	320	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	20.49	20.51	320	Pass
49	6195	20.58	20.65	320	Pass
93	6415	20.52	20.51	320	Pass
97	6435	20.53	21.37	320	Pass
105	6475	20.62	20.56	320	Pass
113	6515	20.56	20.58	320	Pass
117	6535	20.61	20.48	320	Pass
149	6695	20.47	20.47	320	Pass
181	6855	20.50	20.64	320	Pass
185	6875	20.54	20.53	320	Pass
209	6995	20.51	20.46	320	Pass
233	7115	20.56	20.60	320	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	5965	40.27	40.20	320	Pass
51	6205	40.38	40.03	320	Pass
91	6405	40.38	40.42	320	Pass
99	6445	40.36	40.46	320	Pass
107	6485	40.38	40.25	320	Pass
115	6525	40.40	40.31	320	Pass
123	6565	40.37	40.25	320	Pass
147	6685	40.34	40.28	320	Pass
179	6845	40.39	40.43	320	Pass
187	6885	40.25	40.42	320	Pass
203	6965	40.53	40.57	320	Pass
227	7085	40.24	40.20	320	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
7	5985	81.33	81.37	320	Pass
55	6225	81.33	81.31	320	Pass
87	6385	81.35	81.33	320	Pass
103	6465	81.27	81.09	320	Pass
119	6545	81.32	81.04	320	Pass
135	6625	81.38	81.10	320	Pass
151	6705	81.28	81.31	320	Pass
167	6785	81.31	81.27	320	Pass
183	6865	81.25	81.31	320	Pass
199	6945	81.30	81.01	320	Pass
215	7025	81.24	81.27	320	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
15	6025	164.65	164.55	320	Pass
47	6185	164.51	164.69	320	Pass
79	6345	164.60	164.62	320	Pass
111	6505	164.55	164.56	320	Pass
143	6665	164.68	164.59	320	Pass
175	6825	164.57	164.54	320	Pass
207	6985	164.67	164.75	320	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.44	19.48	320	Pass
49	6195	18.30	18.23	320	Pass
93	6415	19.52	19.32	320	Pass
97	6435	19.50	19.37	320	Pass
105	6475	18.13	18.22	320	Pass
113	6515	19.46	19.57	320	Pass
117	6535	19.51	19.50	320	Pass
149	6695	18.19	18.23	320	Pass
181	6855	19.50	19.46	320	Pass
185	6875	19.54	19.47	320	Pass
209	6995	18.28	18.12	320	Pass
233	7115	19.39	19.49	320	Pass

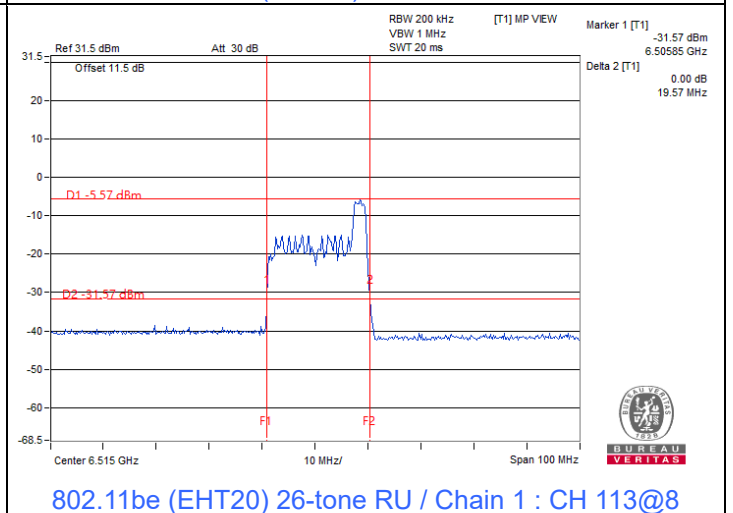
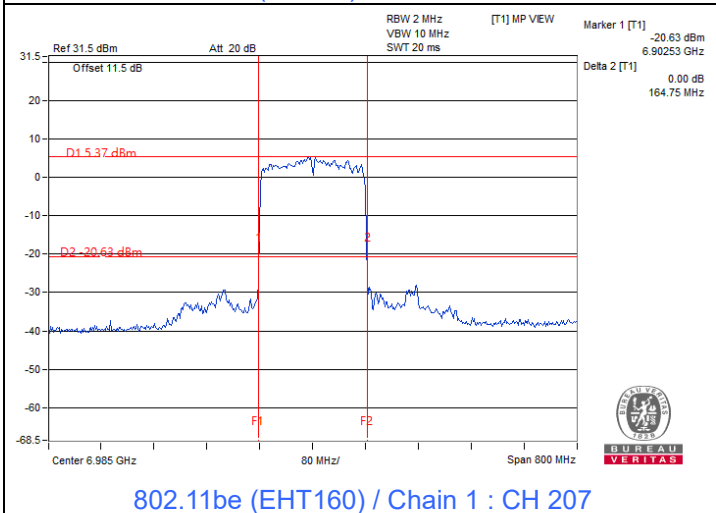
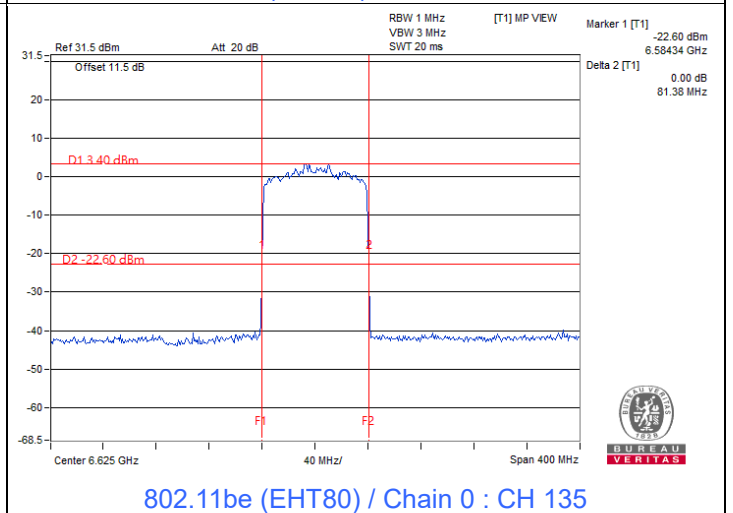
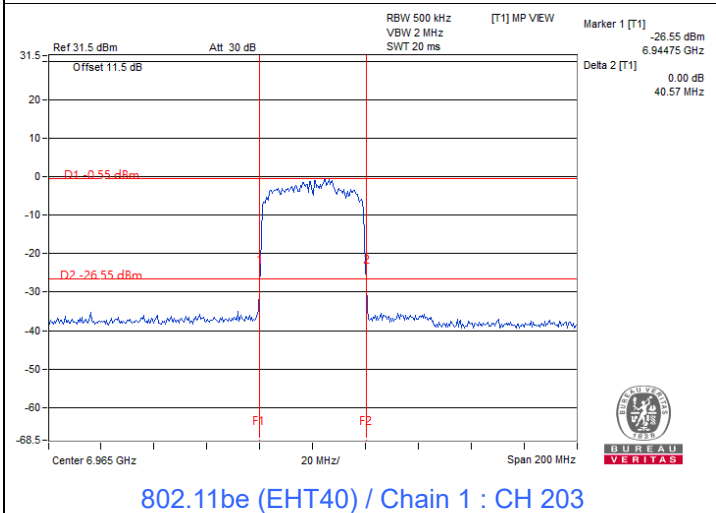
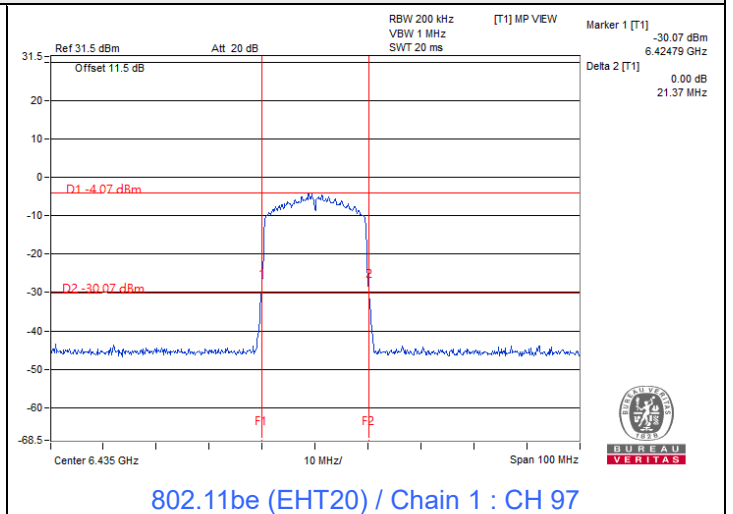
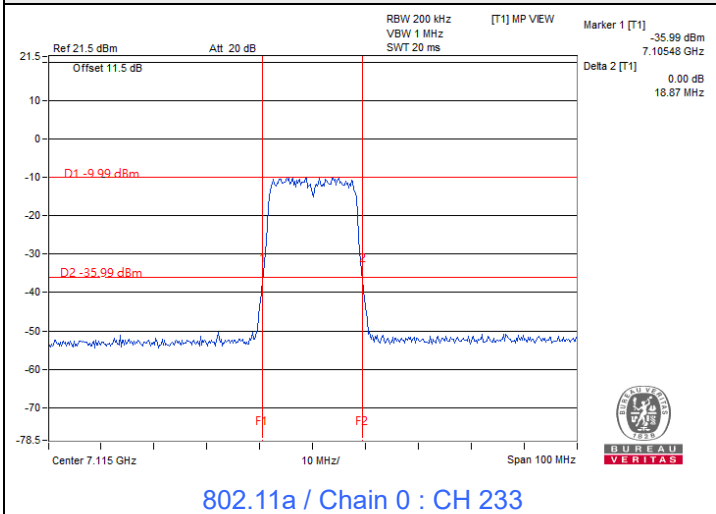
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.47	19.46	320	Pass
49	6195	18.32	18.35	320	Pass
93	6415	19.49	19.58	320	Pass
97	6435	19.48	19.36	320	Pass
105	6475	18.37	18.34	320	Pass
113	6515	19.50	19.39	320	Pass
117	6535	19.57	19.45	320	Pass
149	6695	18.26	18.27	320	Pass
181	6855	19.47	19.43	320	Pass
185	6875	19.60	19.47	320	Pass
209	6995	18.33	18.38	320	Pass
233	7115	19.53	19.34	320	Pass

802.11be (EHT20) 106-tone RU

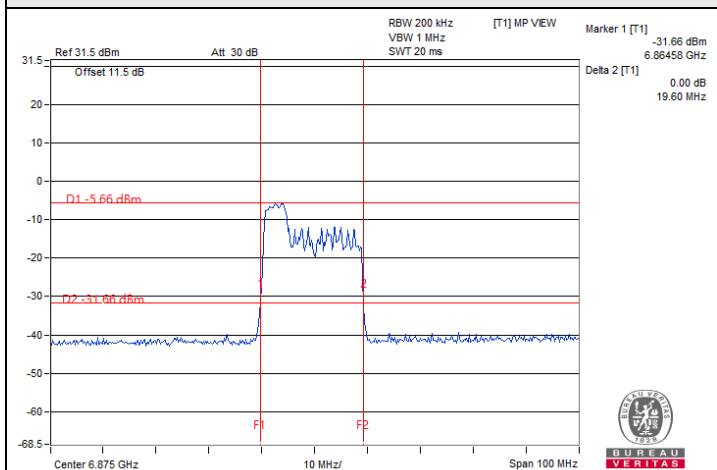
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.69	19.55	320	Pass
49	6195	19.74	19.61	320	Pass
93	6415	19.74	19.44	320	Pass
97	6435	19.60	19.60	320	Pass
105	6475	19.65	19.69	320	Pass
113	6515	19.58	19.63	320	Pass
117	6535	19.61	19.66	320	Pass
149	6695	19.66	19.53	320	Pass
181	6855	19.65	19.57	320	Pass
185	6875	19.68	19.63	320	Pass
209	6995	19.76	19.81	320	Pass
233	7115	19.59	19.62	320	Pass

Spectrum Plot of Maximum Value

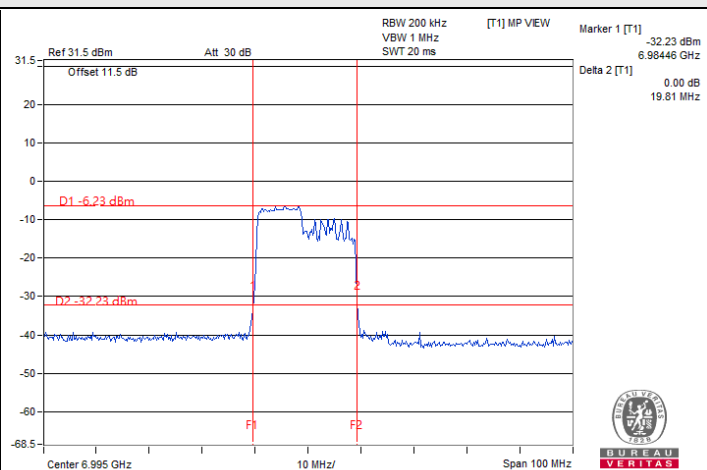




Spectrum Plot of Maximum Value



802.11be (EHT20) 52-tone RU / Chain 0 : CH 185@37



802.11be (EHT20) 106-tone RU / Chain 1 : CH 209@53



Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of standard power AP

1TX

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	31.52	320	Pass
49	6195	40.19	320	Pass
93	6415	42.16	320	Pass
117	6535	43.54	320	Pass
149	6695	40.44	320	Pass
181	6855	40.39	320	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	32.26	320	Pass
49	6195	36.88	320	Pass
93	6415	46.3	320	Pass
117	6535	47.56	320	Pass
149	6695	47.26	320	Pass
181	6855	48.96	320	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
3	5965	86.14	320	Pass
51	6205	91.95	320	Pass
91	6405	94.12	320	Pass
123	6565	95.09	320	Pass
147	6685	99.31	320	Pass
179	6845	98.23	320	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
7	5985	197.15	320	Pass
55	6225	206.95	320	Pass
87	6385	200.33	320	Pass
135	6625	204.33	320	Pass
151	6705	211.83	320	Pass
167	6785	258.61	320	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
15	6025	313.93	320	Pass
47	6185	318.7	320	Pass
79	6345	230.17	320	Pass
143	6665	311.19	320	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.59	320	Pass
49	6195	18.39	320	Pass
93	6415	19.74	320	Pass
117	6535	19.64	320	Pass
149	6695	18.35	320	Pass
181	6855	19.56	320	Pass

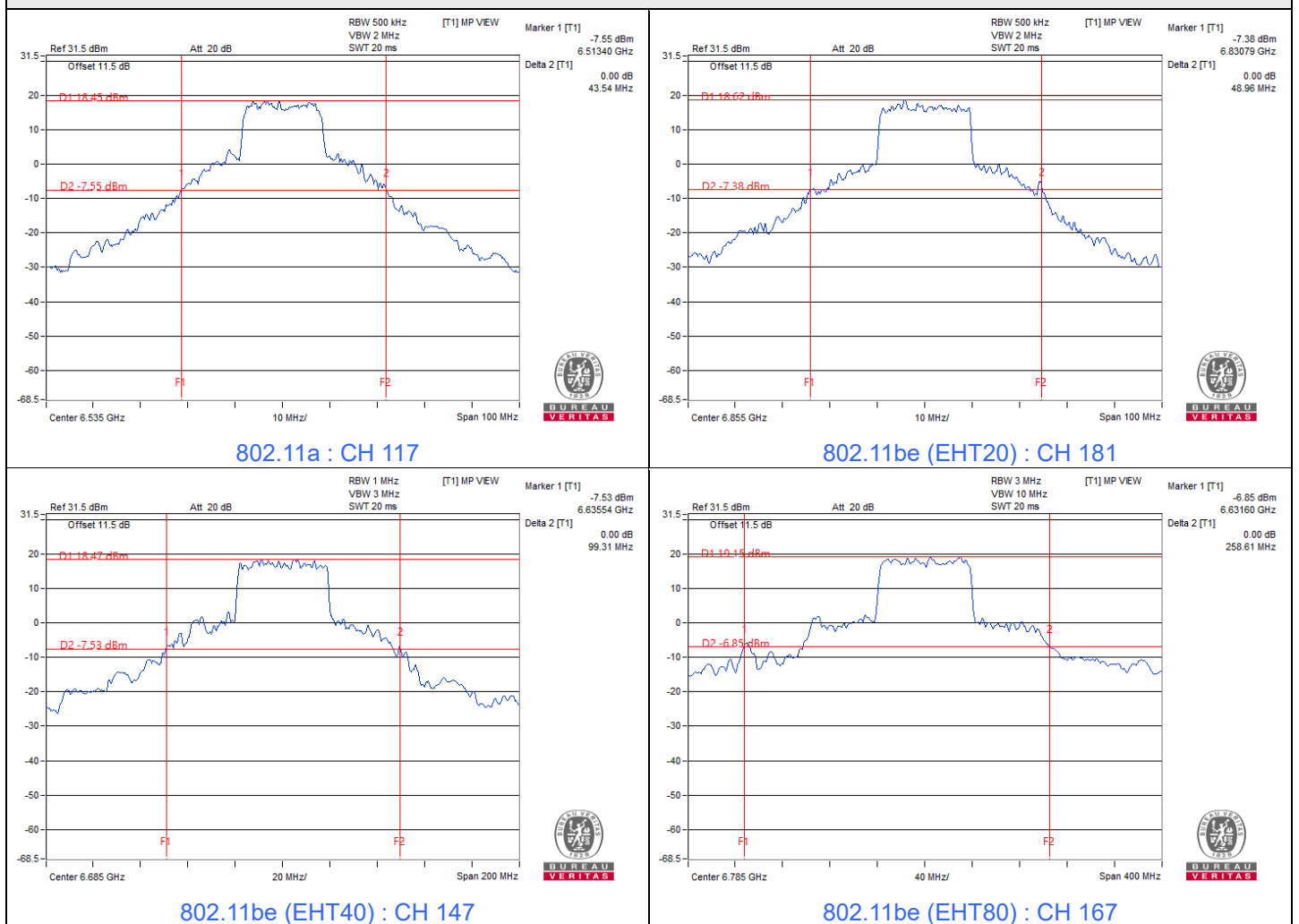
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.63	320	Pass
49	6195	18.58	320	Pass
93	6415	19.67	320	Pass
117	6535	19.84	320	Pass
149	6695	18.46	320	Pass
181	6855	19.61	320	Pass

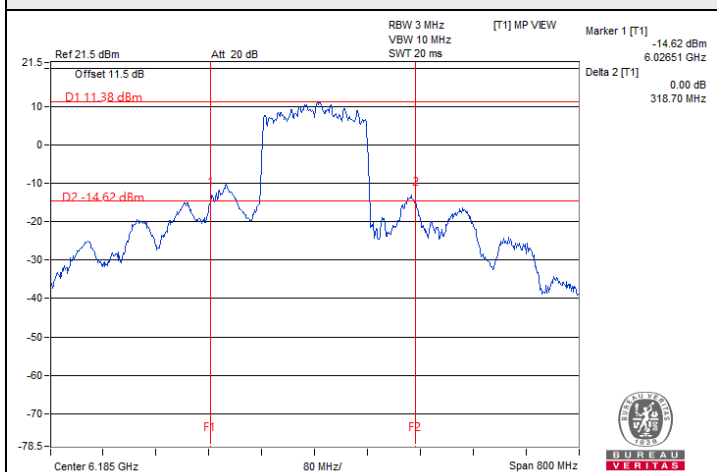
802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Maximum Limit (MHz)	Test Result
1	5955	19.9	320	Pass
49	6195	20.04	320	Pass
93	6415	22.69	320	Pass
117	6535	21.12	320	Pass
149	6695	24.99	320	Pass
181	6855	21.85	320	Pass

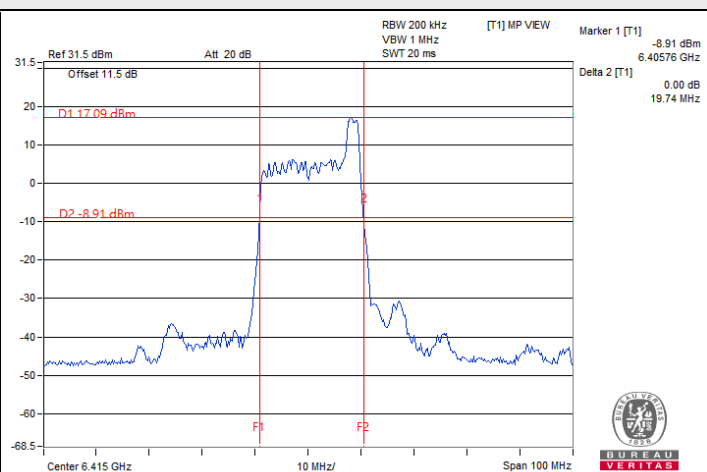
Spectrum Plot of Maximum Value



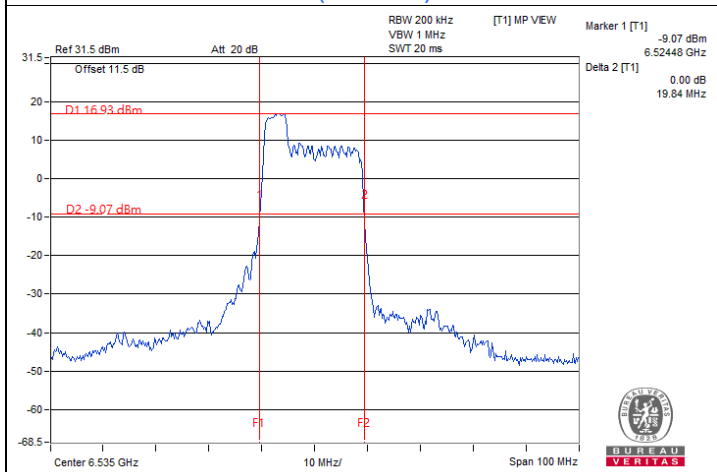
Spectrum Plot of Maximum Value



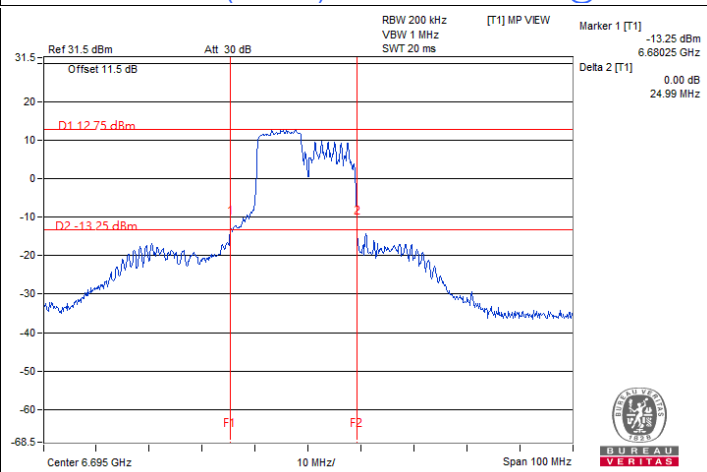
802.11be (EHT160) : CH 47



802.11be (EHT20) 26-tone RU : CH 93@8



802.11be (EHT20) 52-tone RU : CH 117@37



802.11be (EHT20) 106-tone RU : CH 149@53

2TX
802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	18.42	18.45	320	Pass
49	6195	18.49	18.73	320	Pass
93	6415	18.50	18.53	320	Pass
117	6535	18.76	18.62	320	Pass
149	6695	19.17	18.56	320	Pass
181	6855	18.67	18.65	320	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	29.67	24.82	320	Pass
49	6195	20.72	21.90	320	Pass
93	6415	29.22	20.88	320	Pass
117	6535	21.91	20.56	320	Pass
149	6695	31.20	34.90	320	Pass
181	6855	23.17	22.08	320	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	5965	40.13	40.49	320	Pass
51	6205	82.58	84.17	320	Pass
91	6405	86.74	89.44	320	Pass
123	6565	82.44	90.17	320	Pass
147	6685	95.41	91.28	320	Pass
179	6845	92.70	97.75	320	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
7	5985	81.47	81.53	320	Pass
55	6225	208.13	199.73	320	Pass
87	6385	189.29	114.62	320	Pass
135	6625	236.24	198.51	320	Pass
151	6705	256.80	264.05	320	Pass
167	6785	280.10	282.86	320	Pass

802.11be (EHT160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
15	6025	315.88	314.06	320	Pass
47	6185	315.31	324.78	320	Pass
79	6345	230.68	237.64	320	Pass
143	6665	314.45	314.25	320	Pass

802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.52	19.49	320	Pass
49	6195	18.22	18.18	320	Pass
93	6415	19.47	19.47	320	Pass
117	6535	19.44	19.37	320	Pass
149	6695	18.22	18.18	320	Pass
181	6855	19.46	19.42	320	Pass

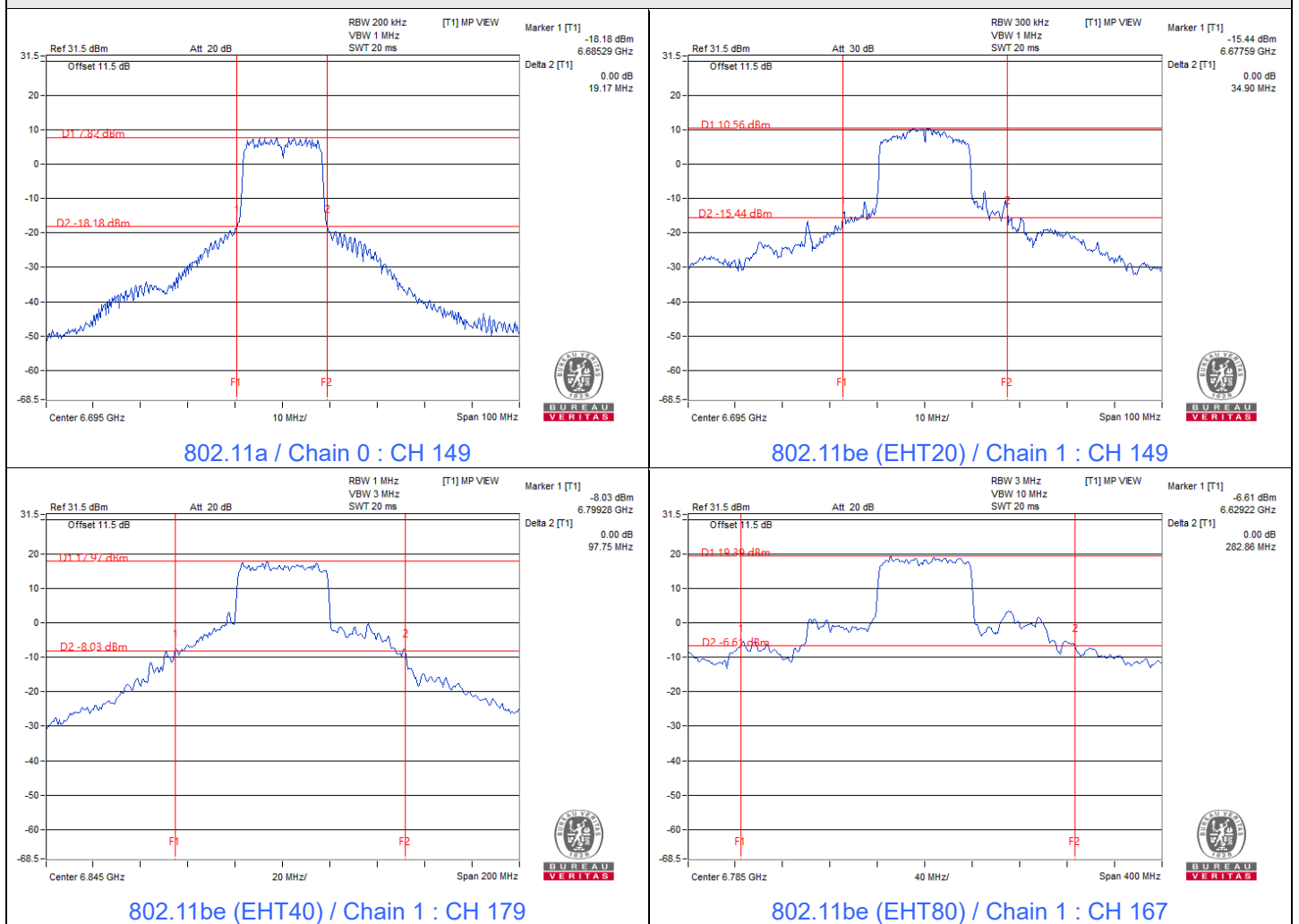
802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.52	19.50	320	Pass
49	6195	18.34	18.34	320	Pass
93	6415	19.47	19.48	320	Pass
117	6535	19.61	19.59	320	Pass
149	6695	18.37	18.36	320	Pass
181	6855	20.82	20.49	320	Pass

802.11be (EHT20) 106-tone RU

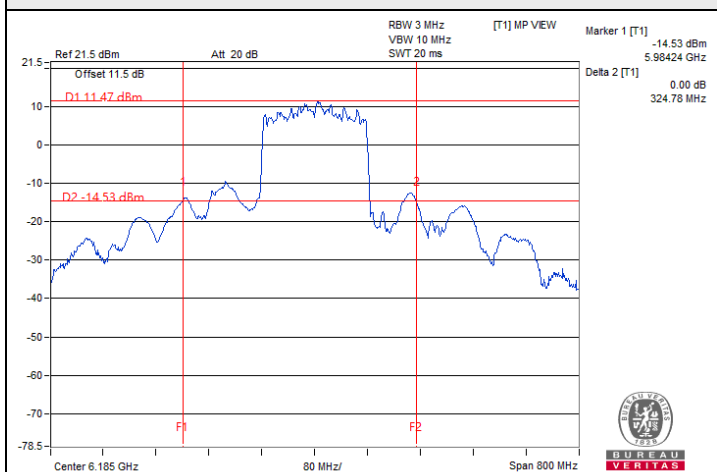
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	5955	19.70	19.75	320	Pass
49	6195	19.57	19.83	320	Pass
93	6415	19.64	19.60	320	Pass
117	6535	19.62	19.63	320	Pass
149	6695	19.64	19.69	320	Pass
181	6855	20.22	19.67	320	Pass

Spectrum Plot of Maximum Value

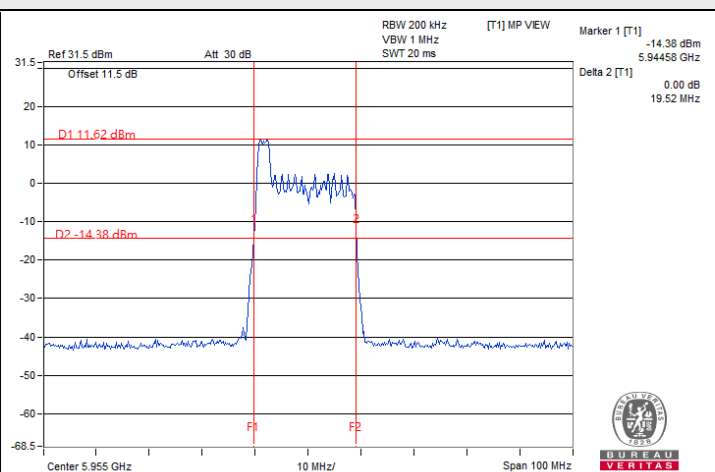




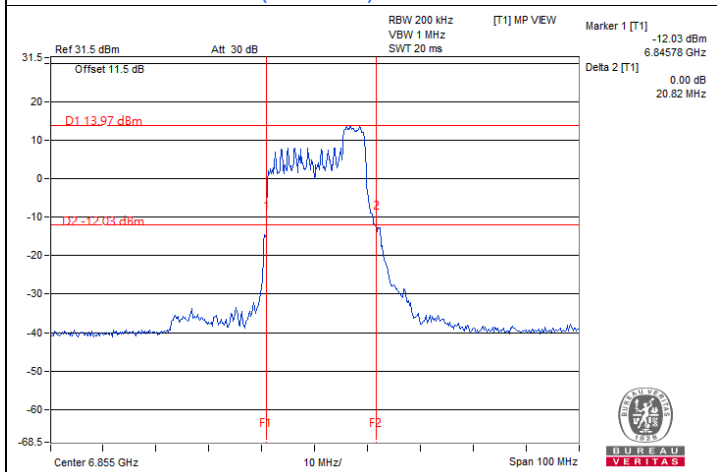
Spectrum Plot of Maximum Value



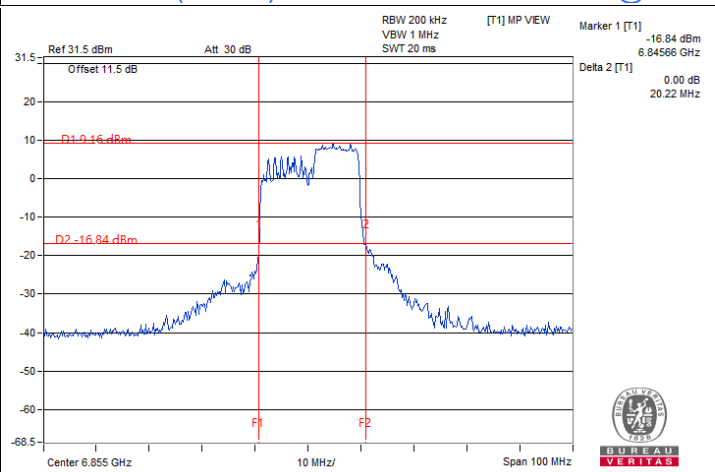
802.11be (EHT160) / Chain 1 : CH 47



802.11be (EHT20) 26-tone RU / Chain 0 : CH 1@0



802.11be (EHT20) 52-tone RU / Chain 0 : CH 181@40



802.11be (EHT20) 106-tone RU / Chain 0 : CH 181@54

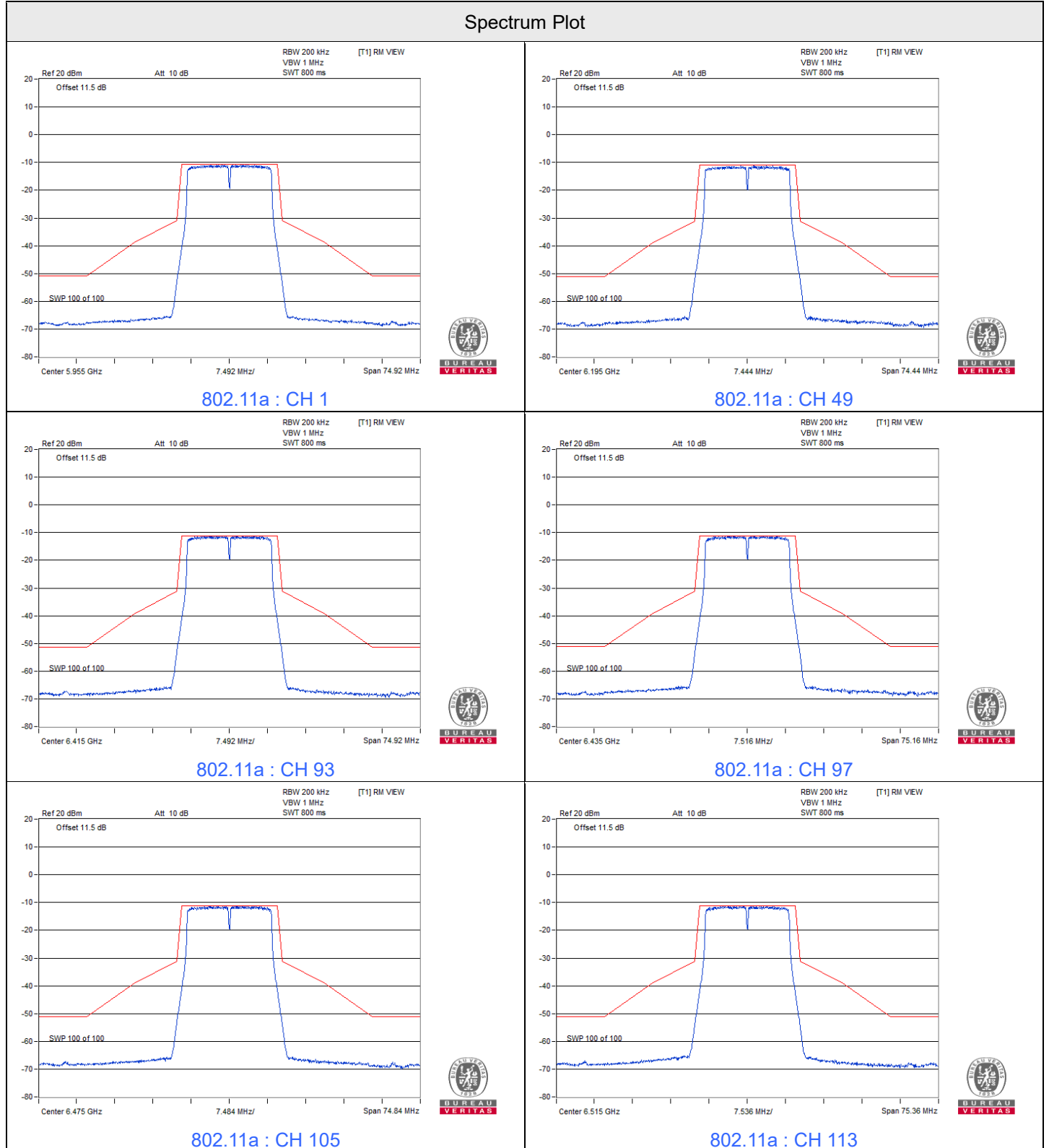
7.4 In-Band Emission Mask

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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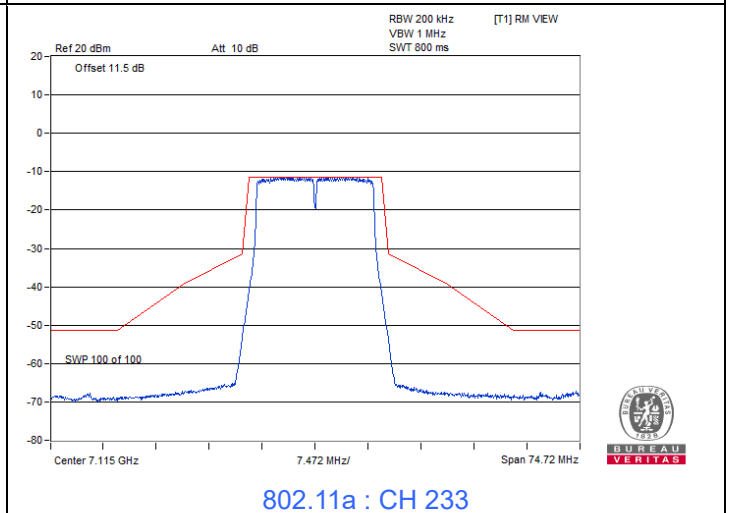
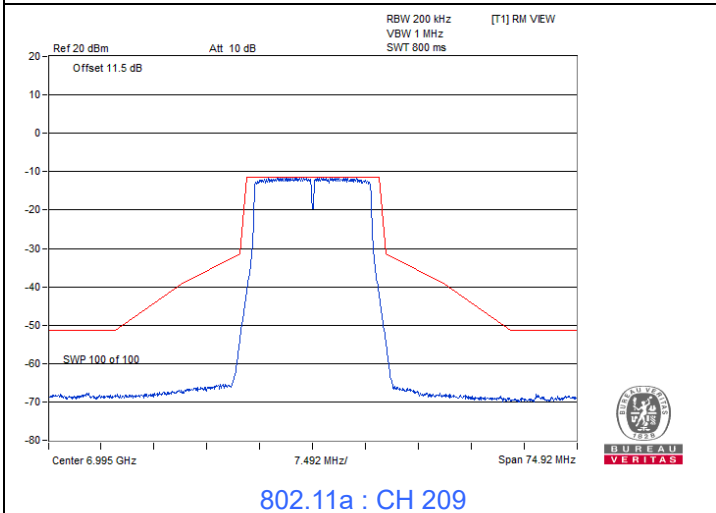
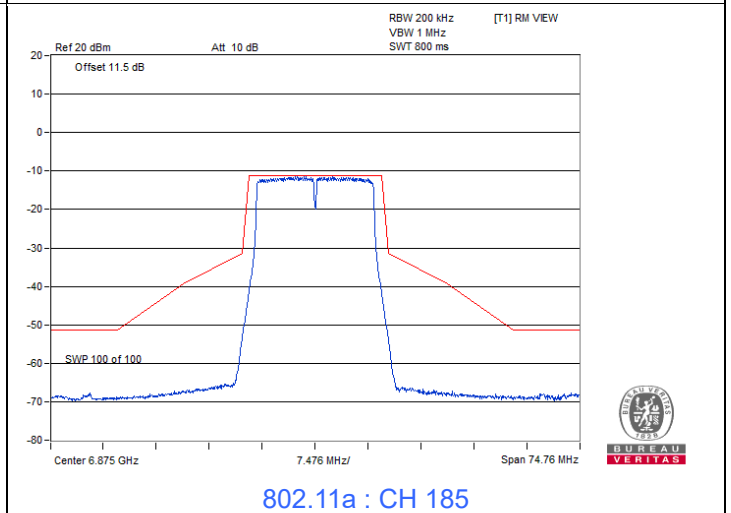
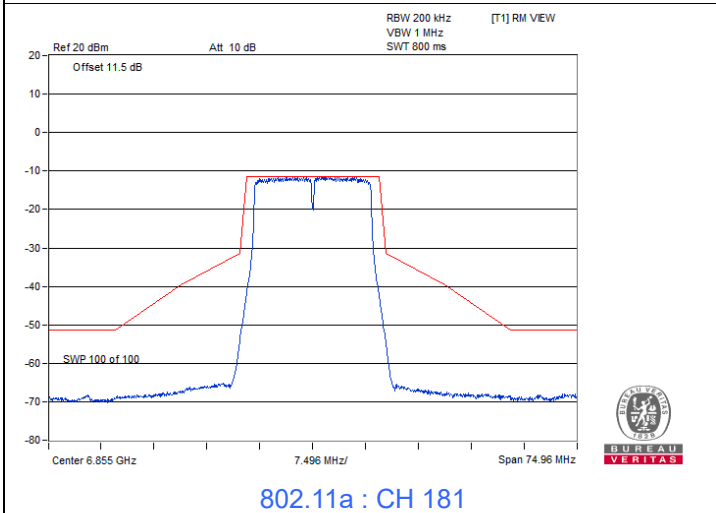
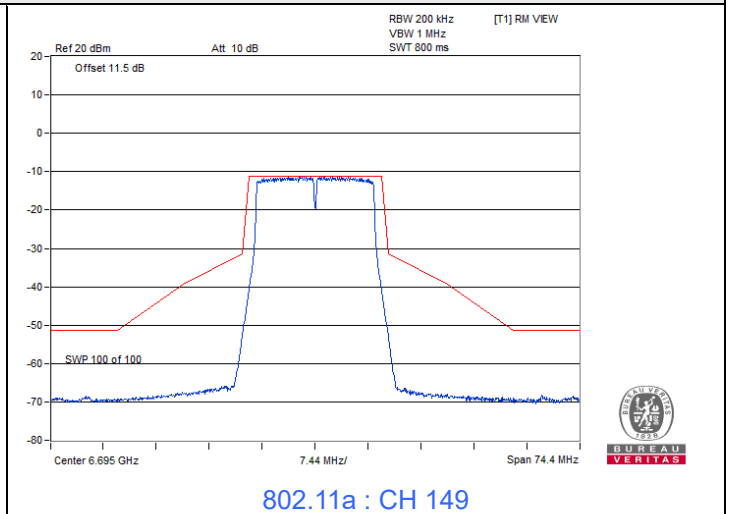
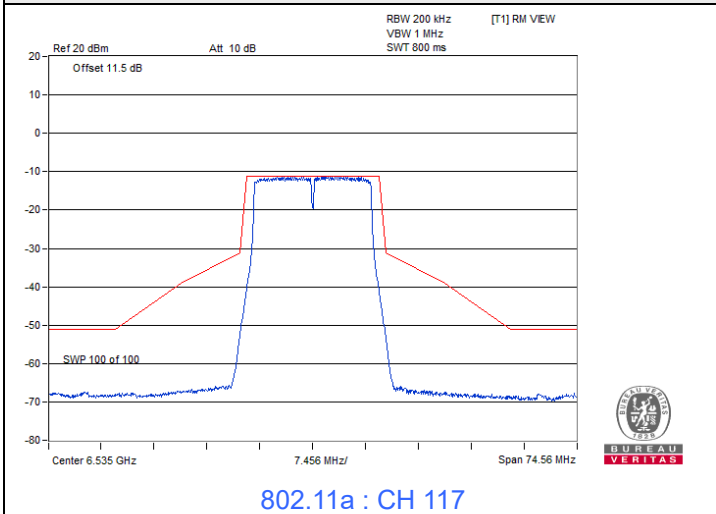
under control of low power indoor AP

1TX

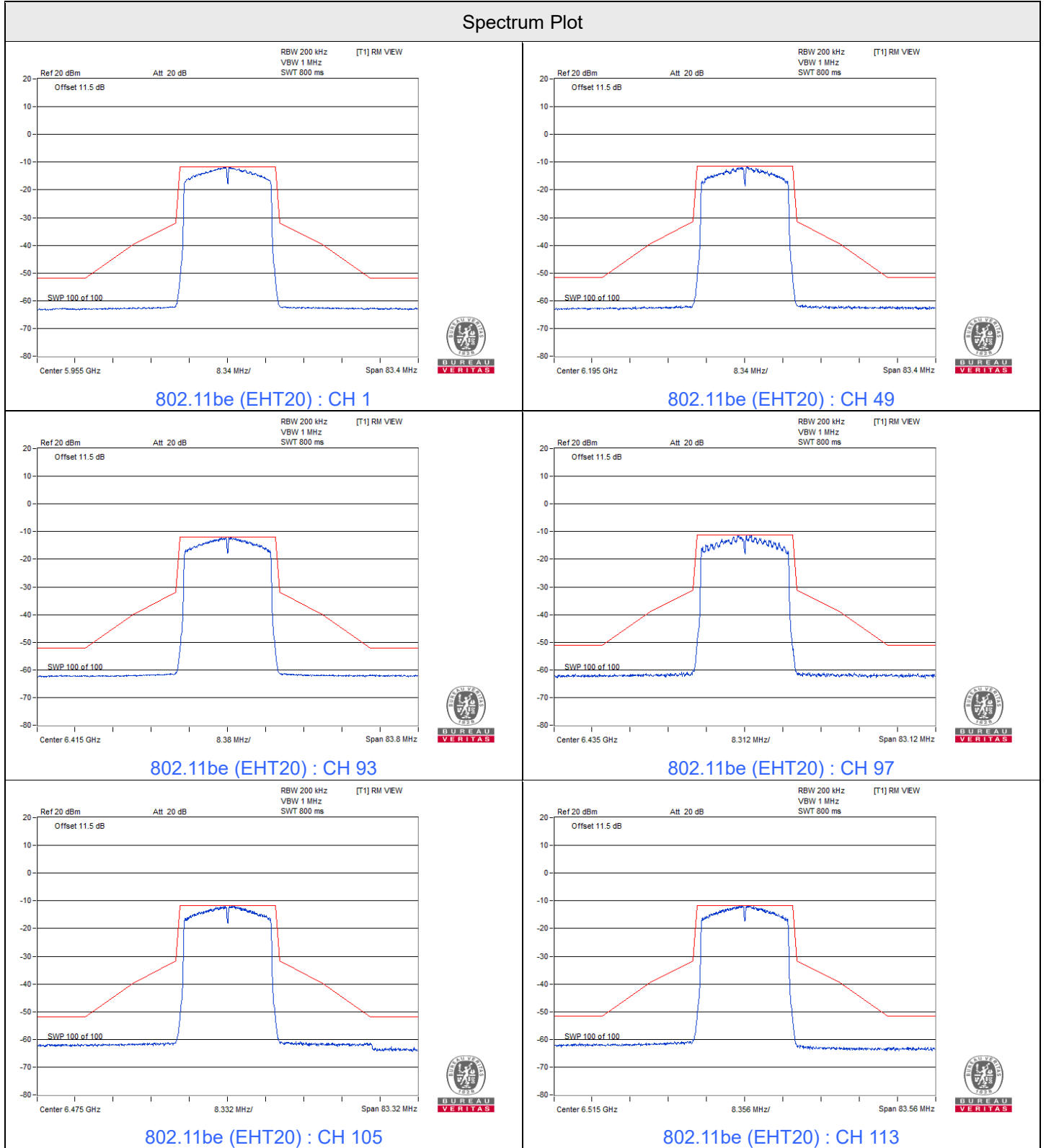
802.11a



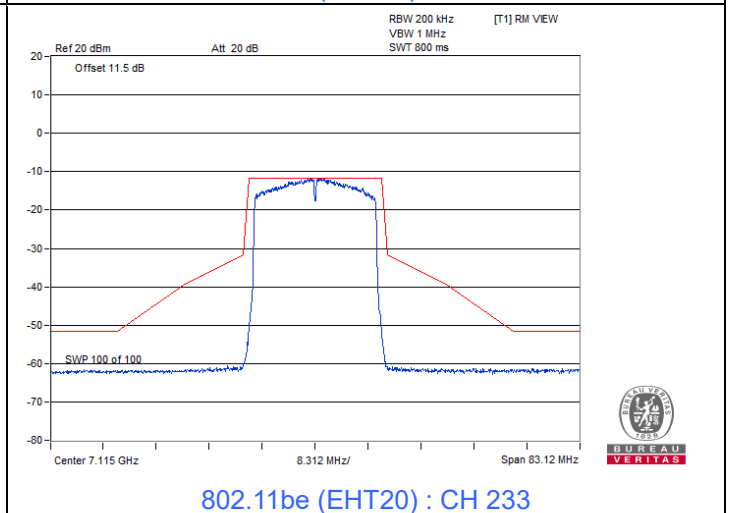
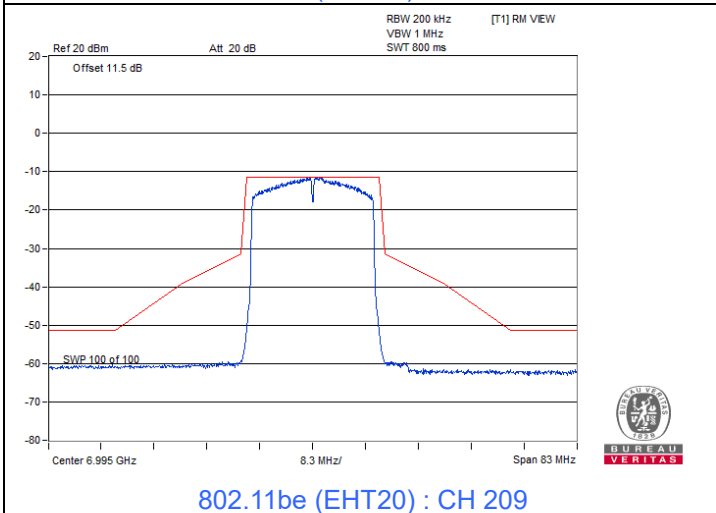
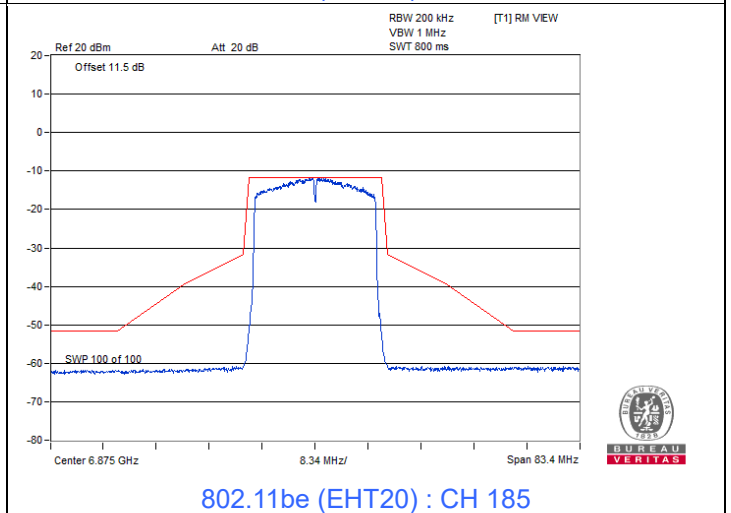
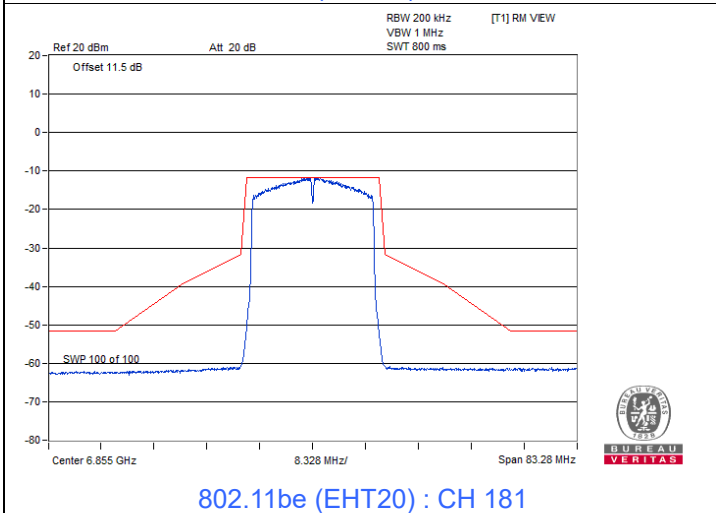
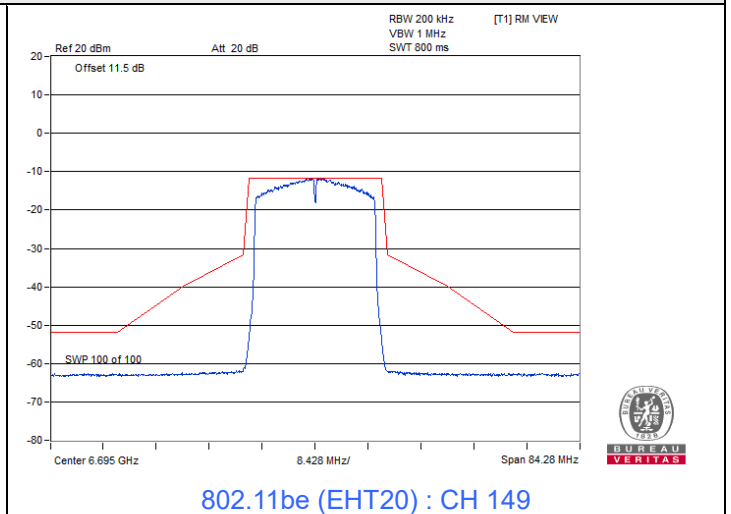
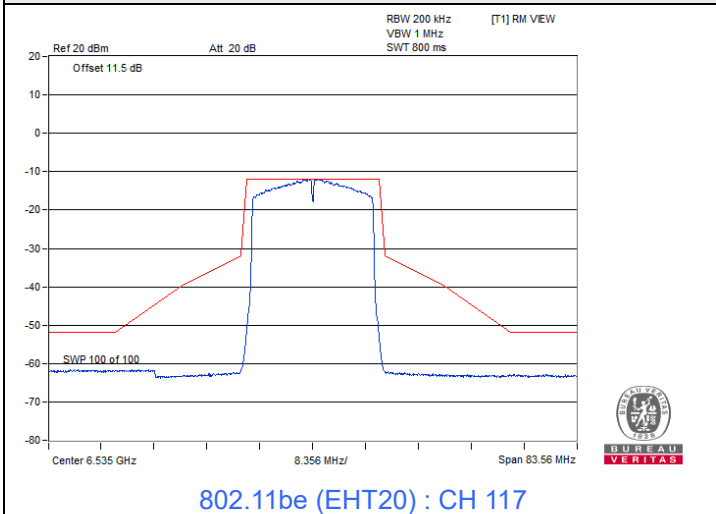
Spectrum Plot



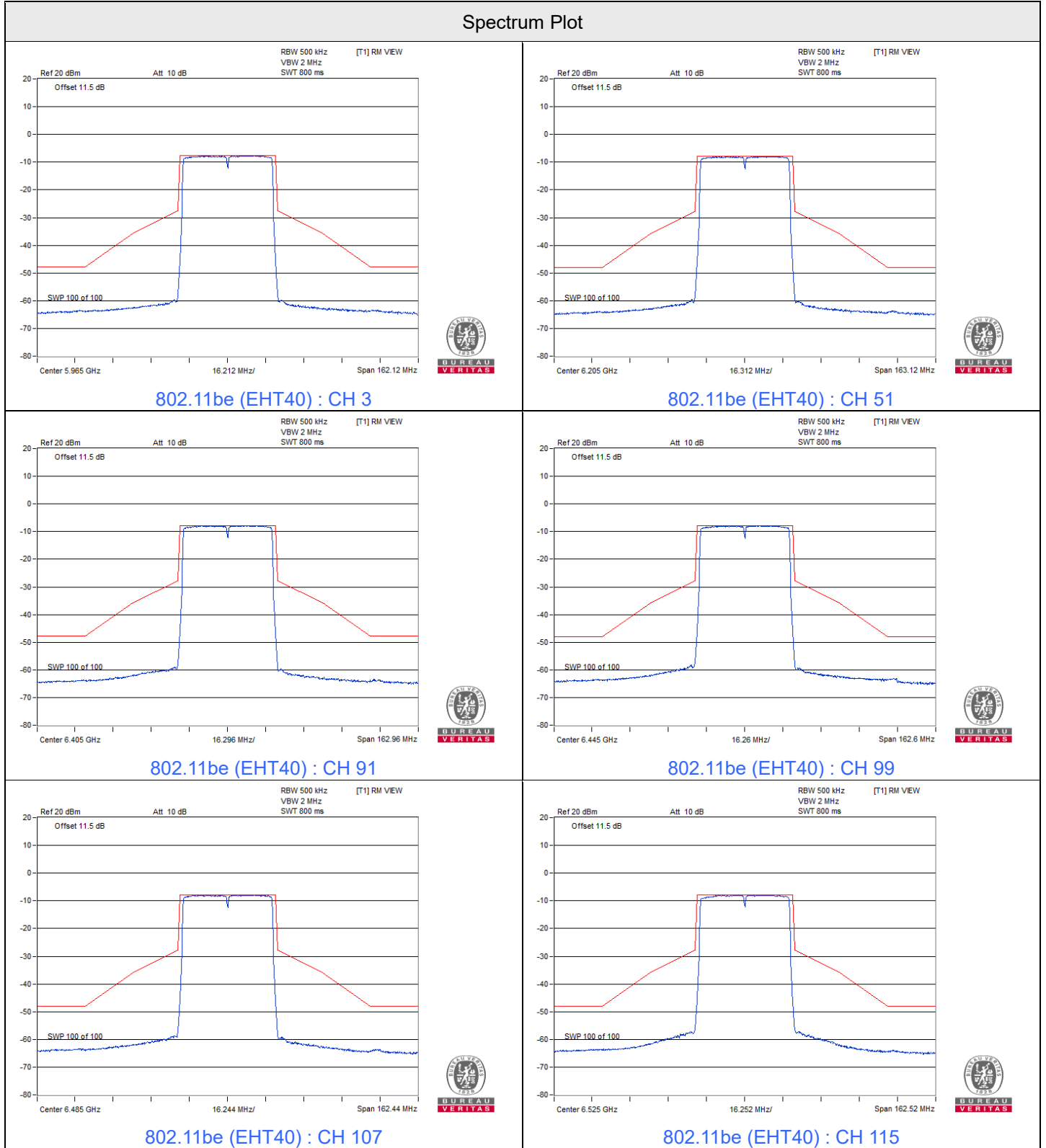
802.11be (EHT20)



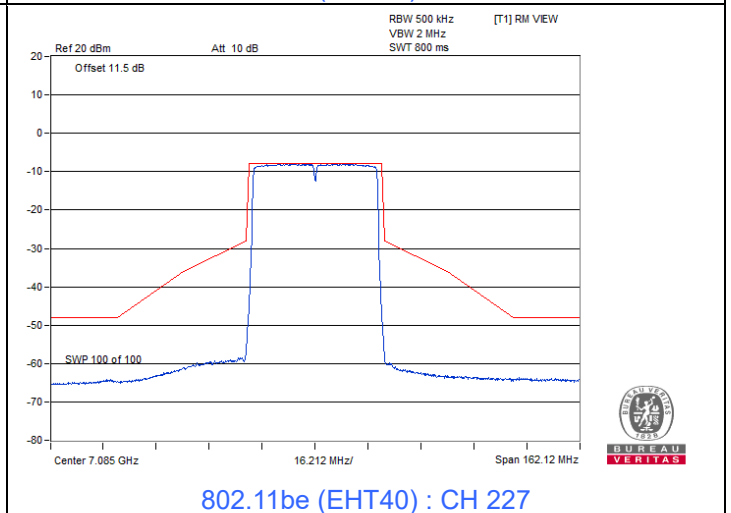
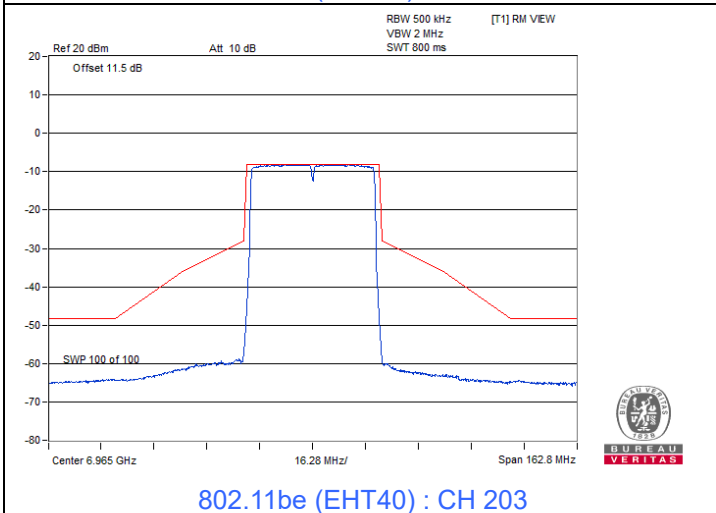
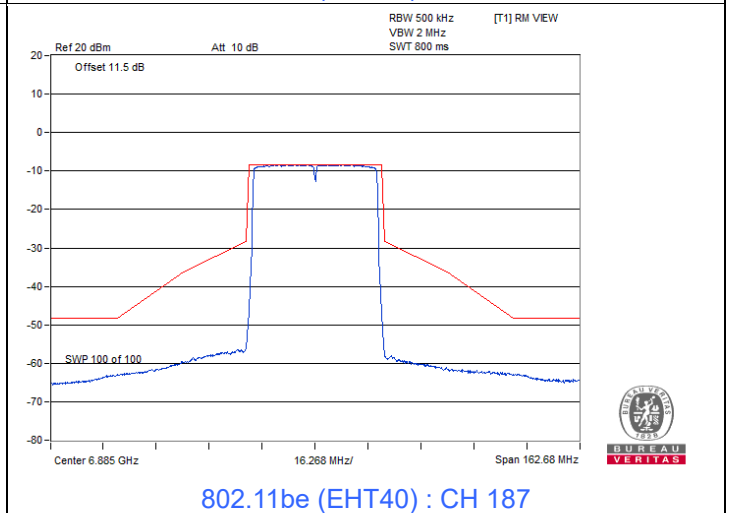
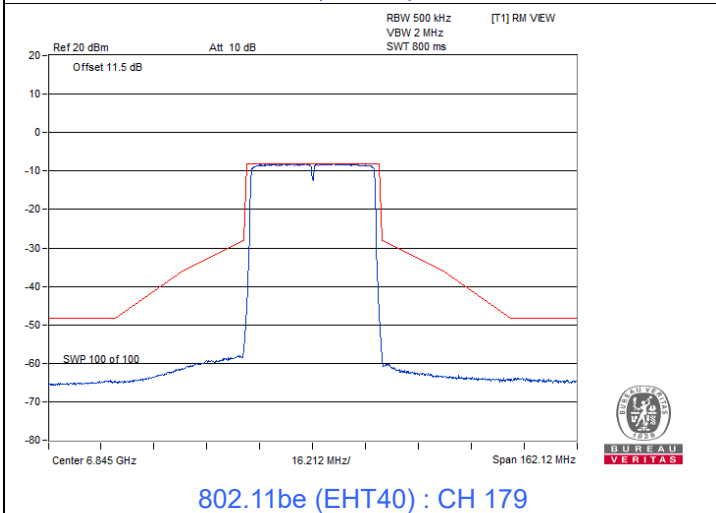
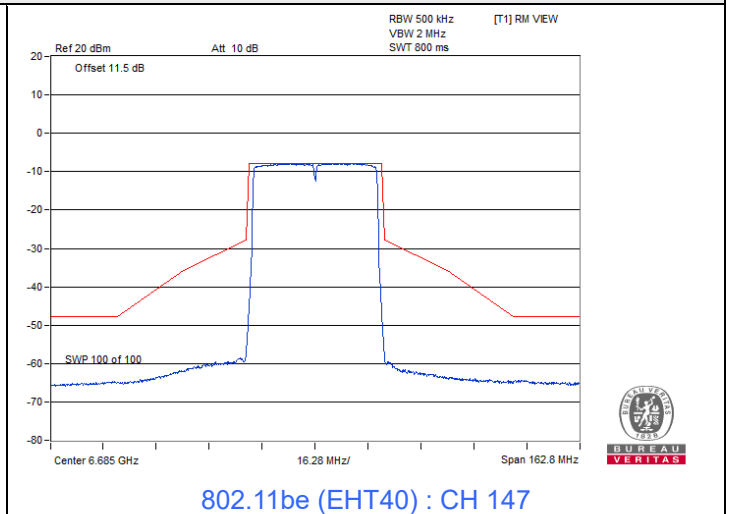
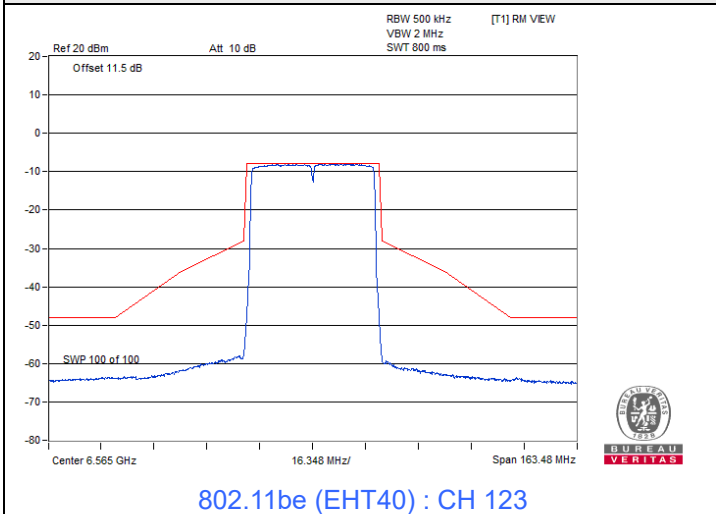
Spectrum Plot



802.11be (EHT40)



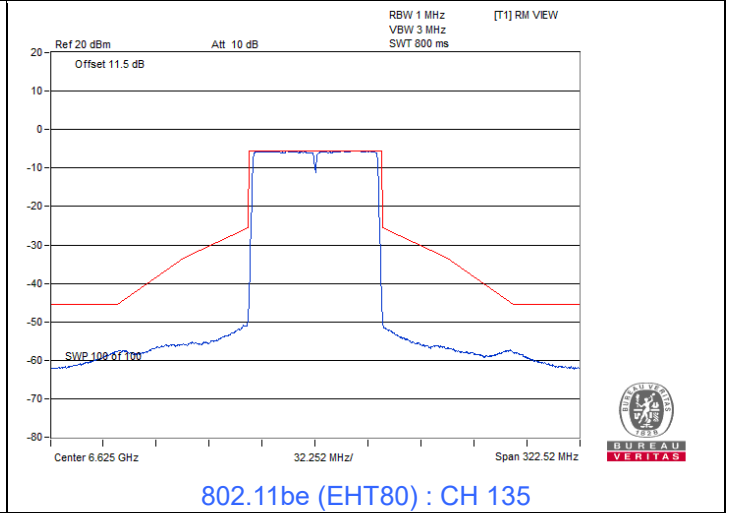
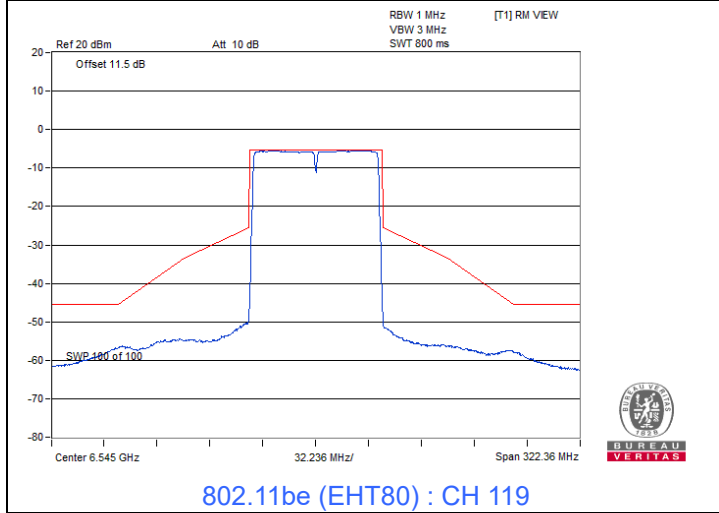
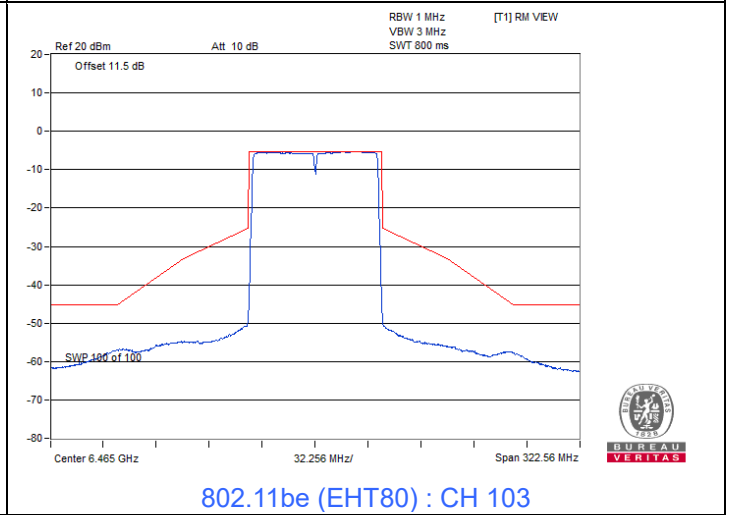
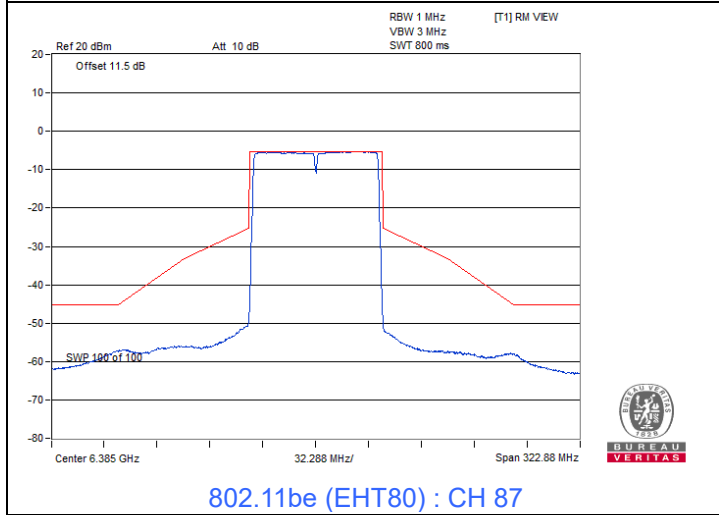
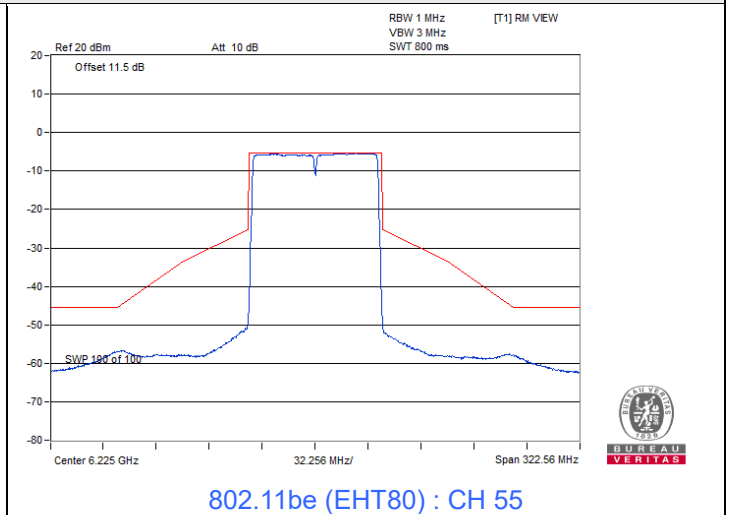
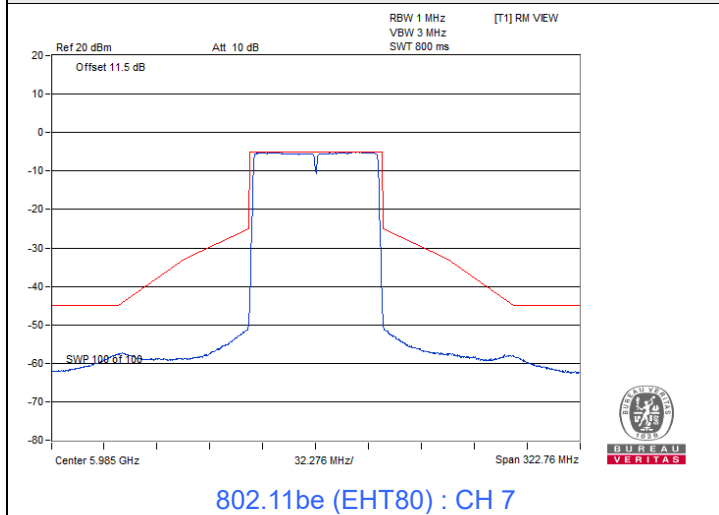
Spectrum Plot



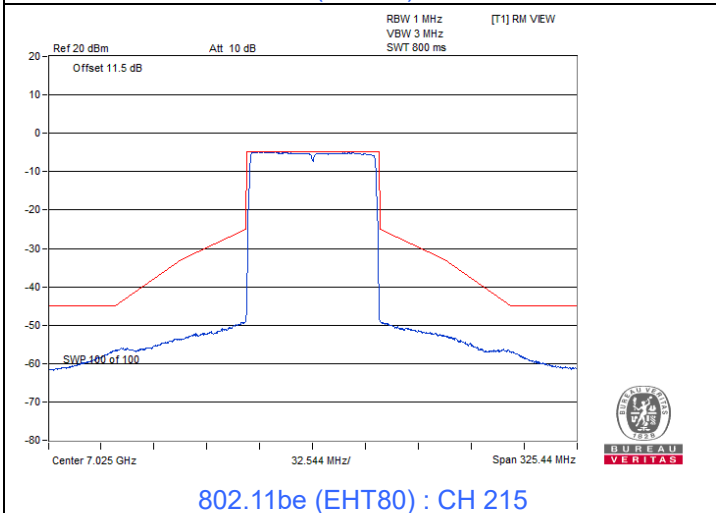
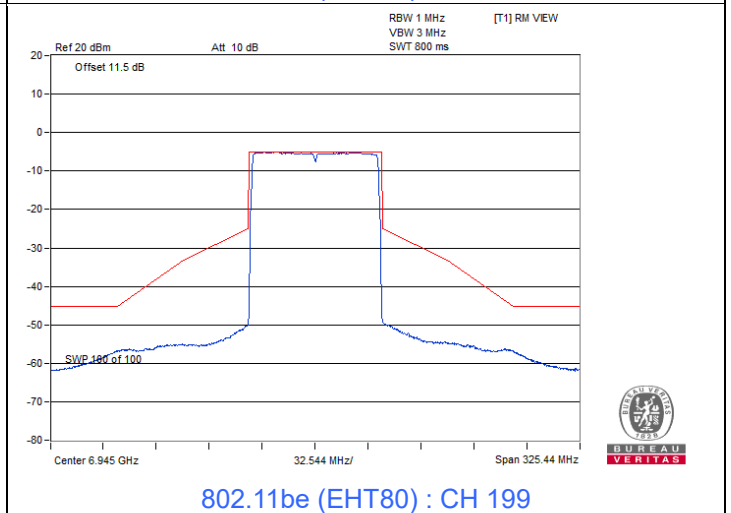
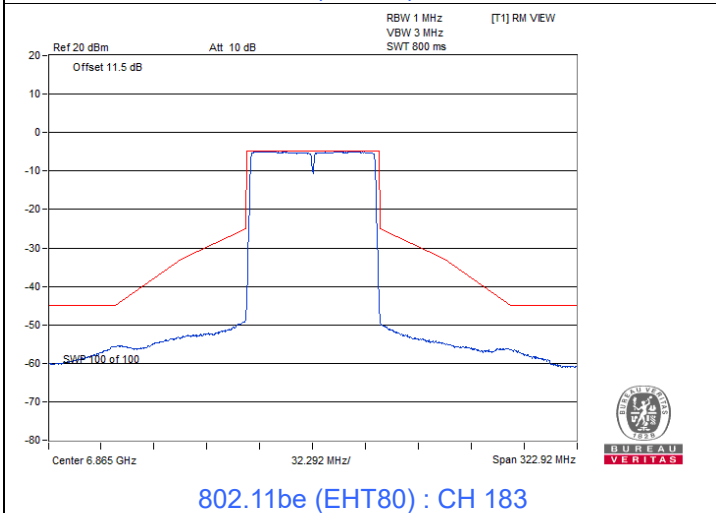
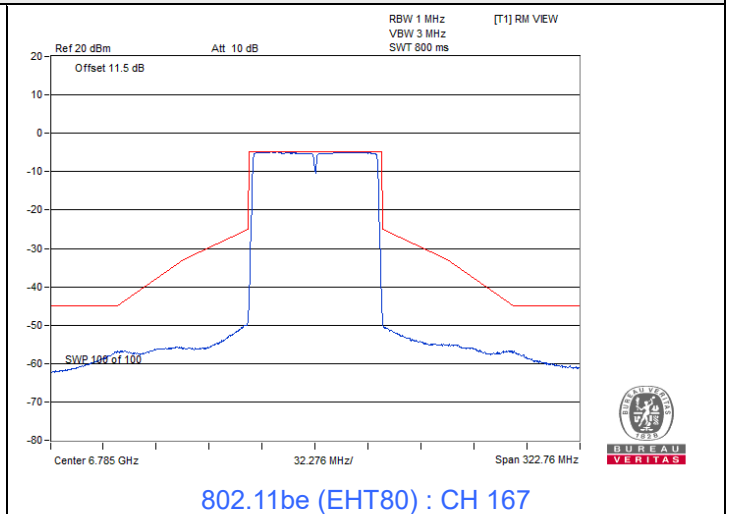
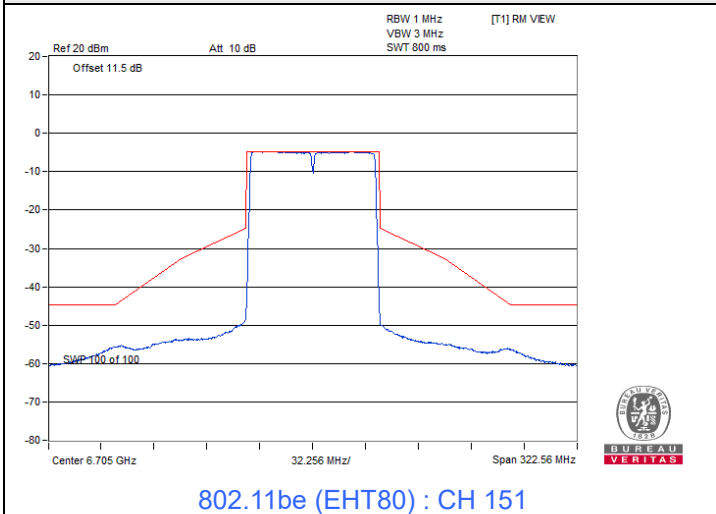


802.11be (EHT80)

Spectrum Plot

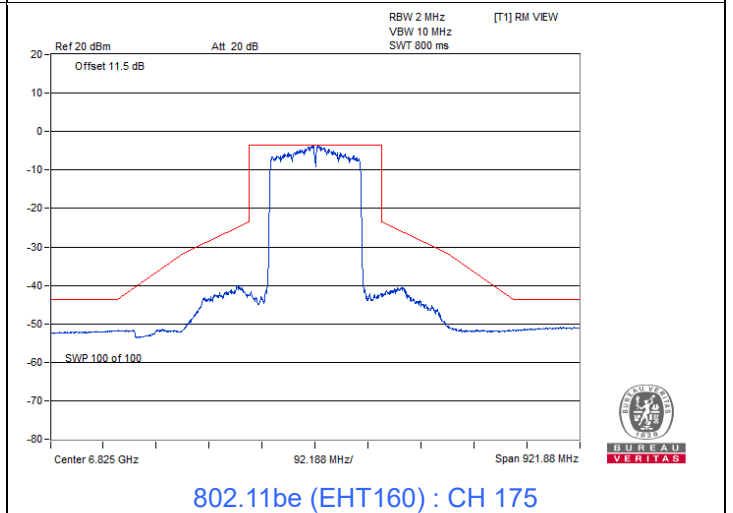
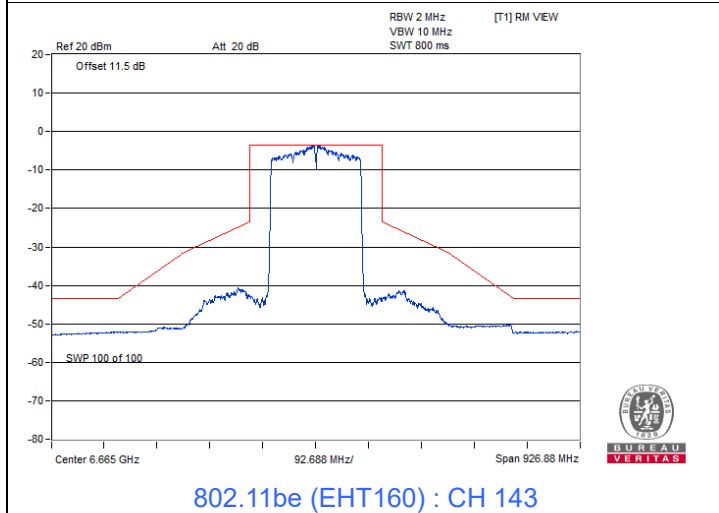
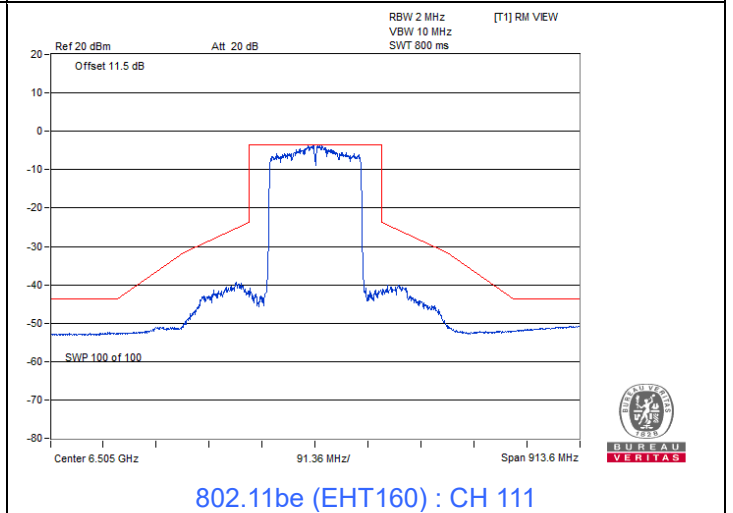
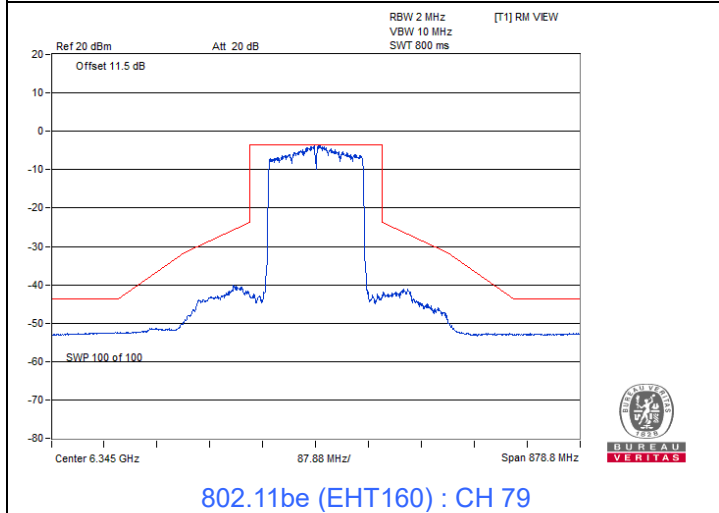
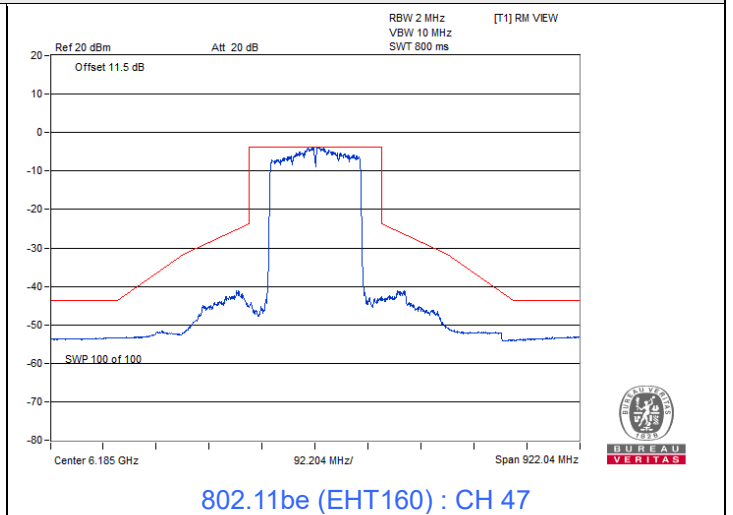
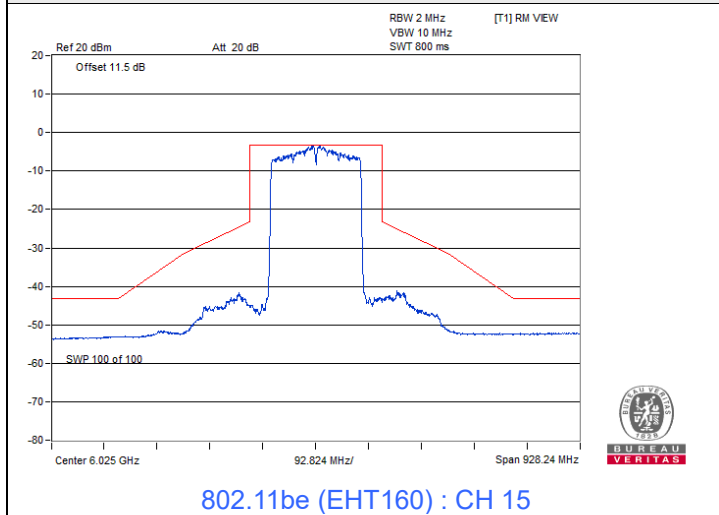


Spectrum Plot



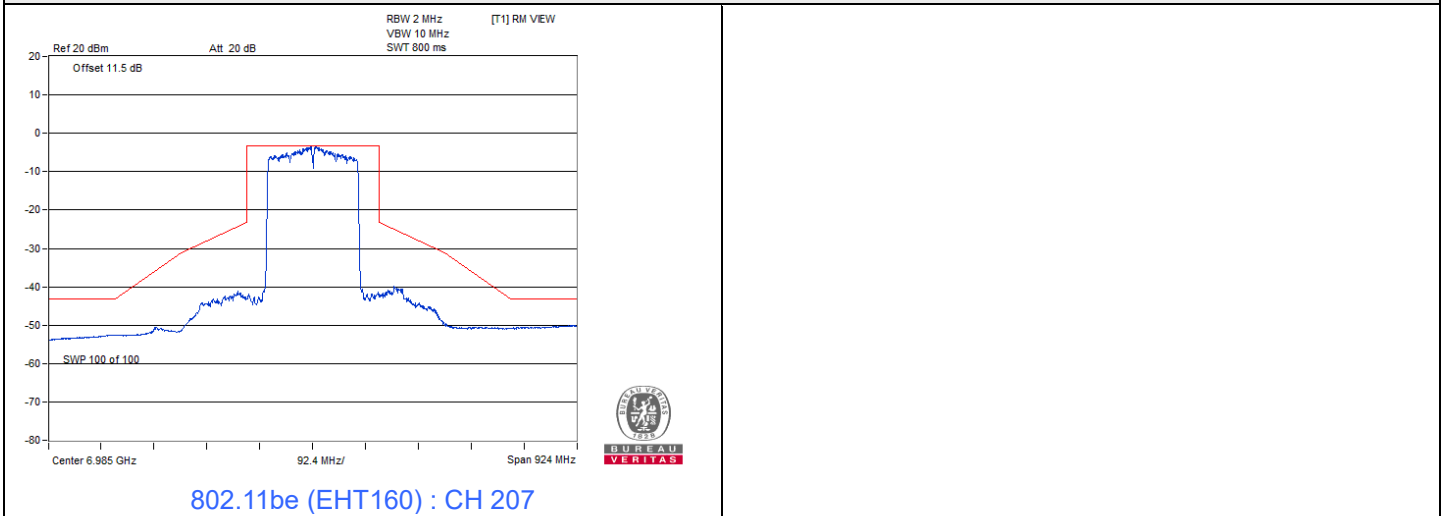
802.11be (EHT160)

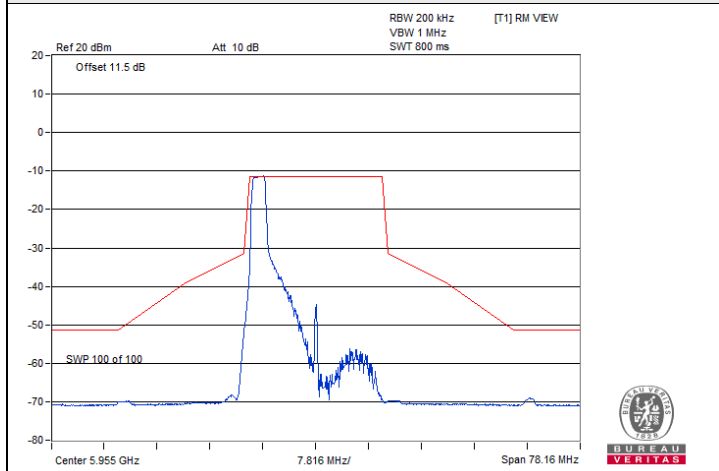
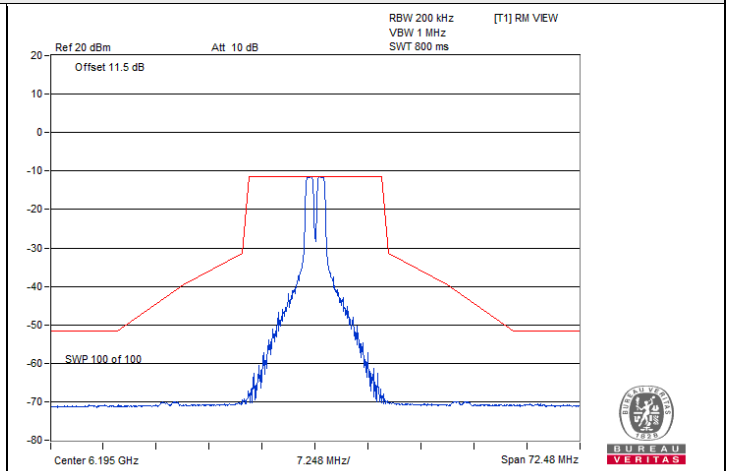
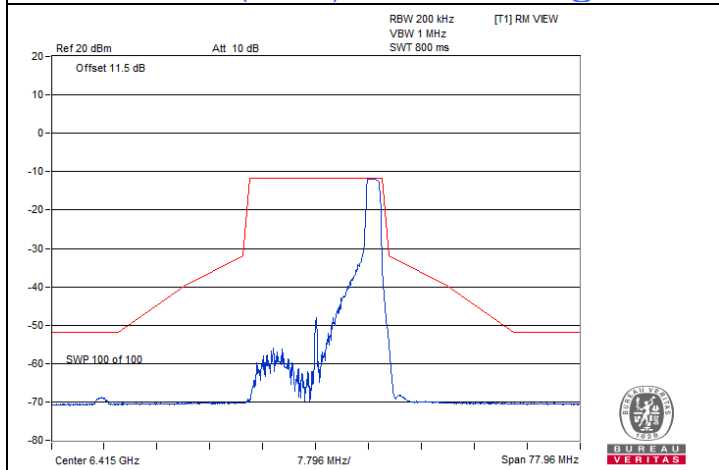
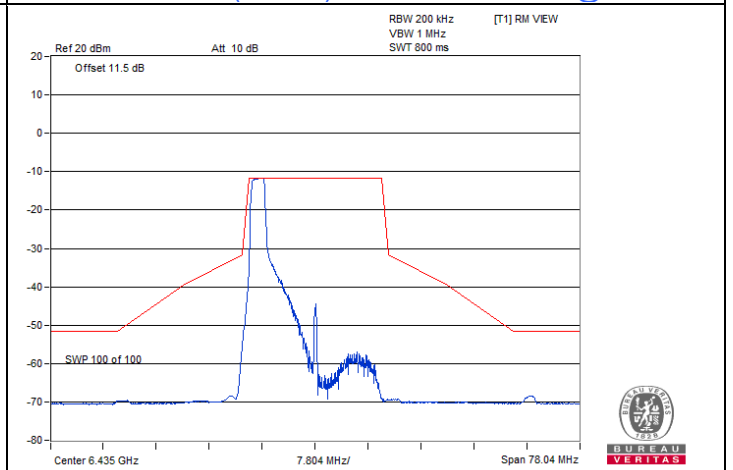
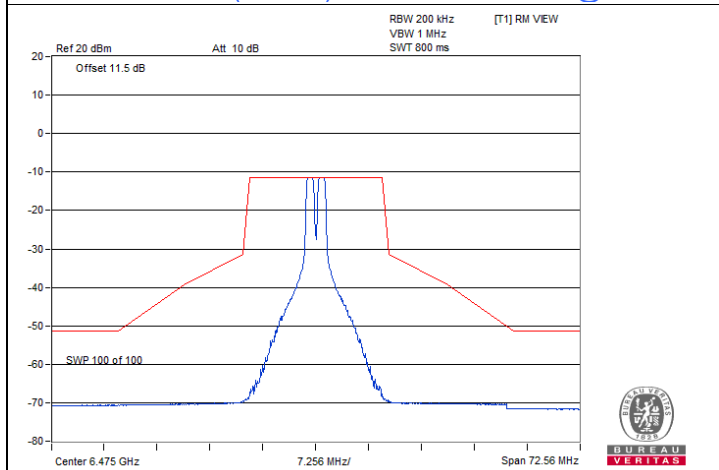
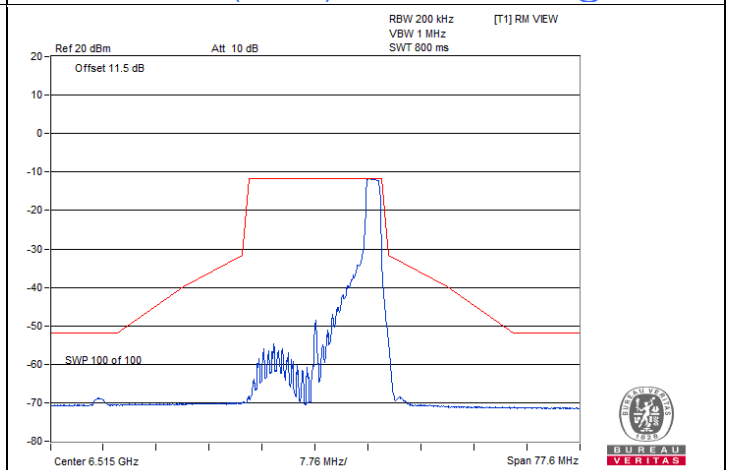
Spectrum Plot



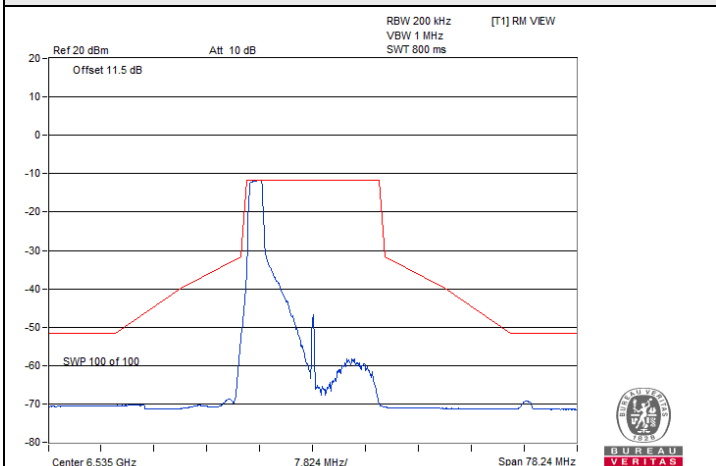


Spectrum Plot

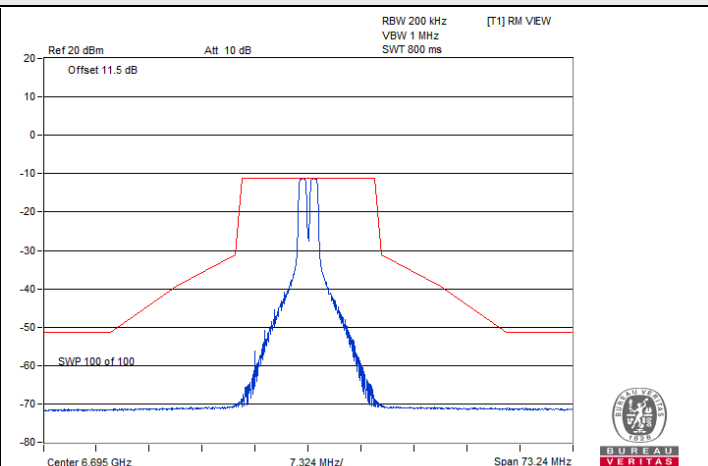


802.11be (EHT20) 26-tone RU**Spectrum Plot****802.11be (EHT20) 26-tone RU : CH 1@0****802.11be (EHT20) 26-tone RU : CH 49@4****802.11be (EHT20) 26-tone RU : CH 93@8****802.11be (EHT20) 26-tone RU : CH 97@0****802.11be (EHT20) 26-tone RU : CH 105@4****802.11be (EHT20) 26-tone RU : CH 113@8**

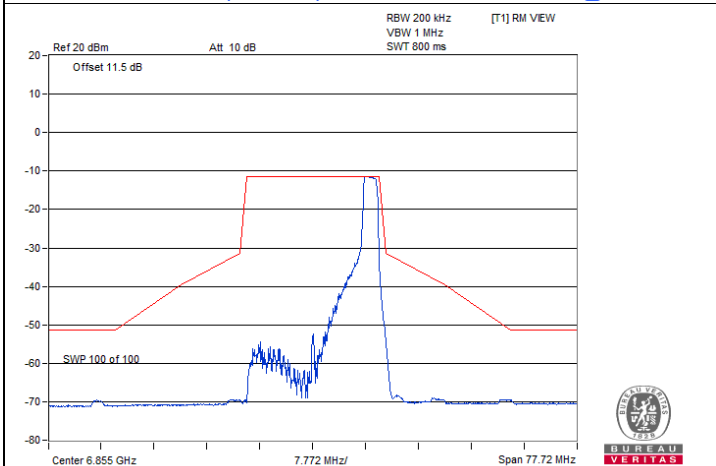
Spectrum Plot



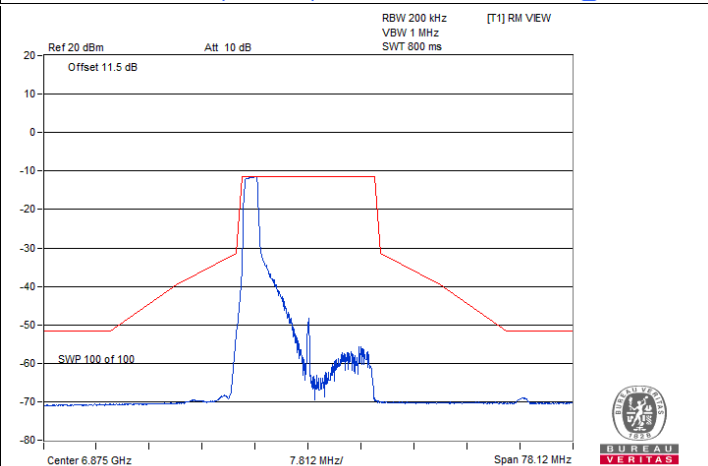
802.11be (EHT20) 26-tone RU : CH 117@0



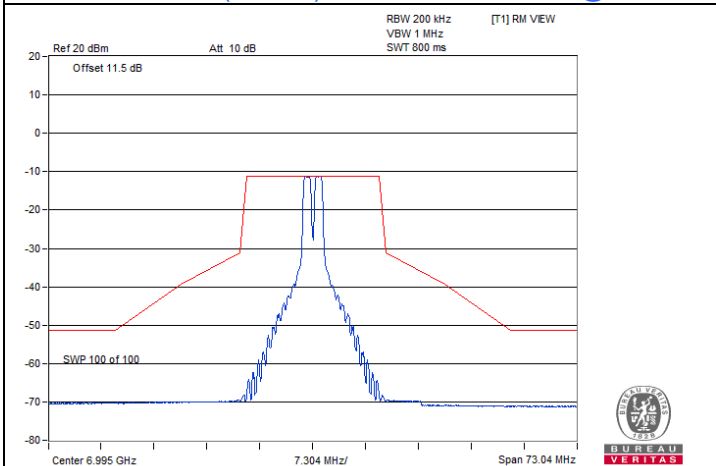
802.11be (EHT20) 26-tone RU : CH 149@4



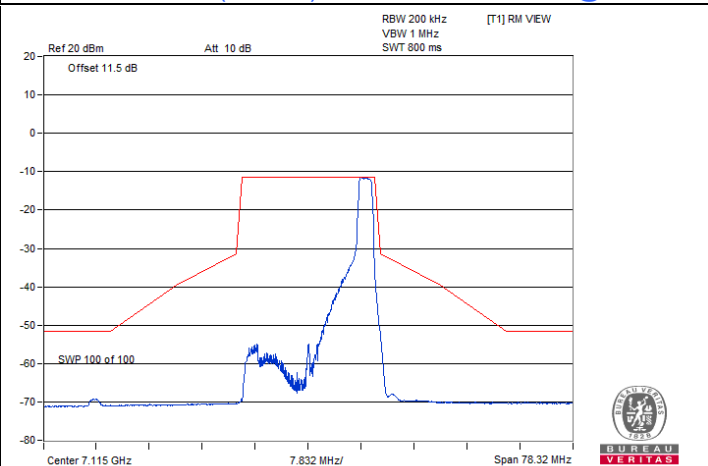
802.11be (EHT20) 26-tone RU : CH 181@8



802.11be (EHT20) 26-tone RU : CH 185@0



802.11be (EHT20) 26-tone RU : CH 209@4

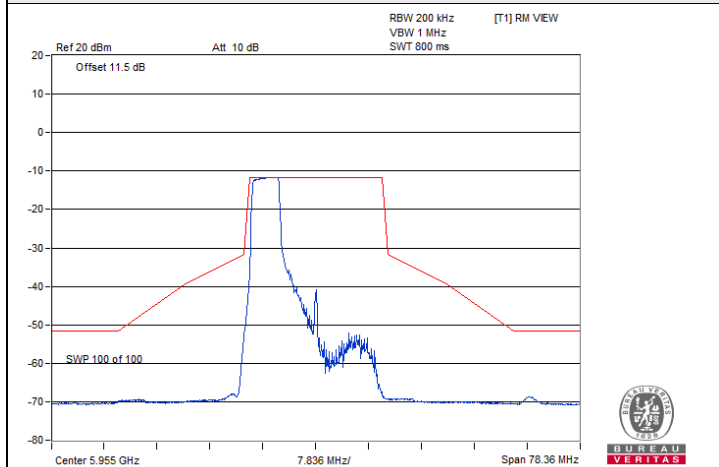


802.11be (EHT20) 26-tone RU : CH 233@8

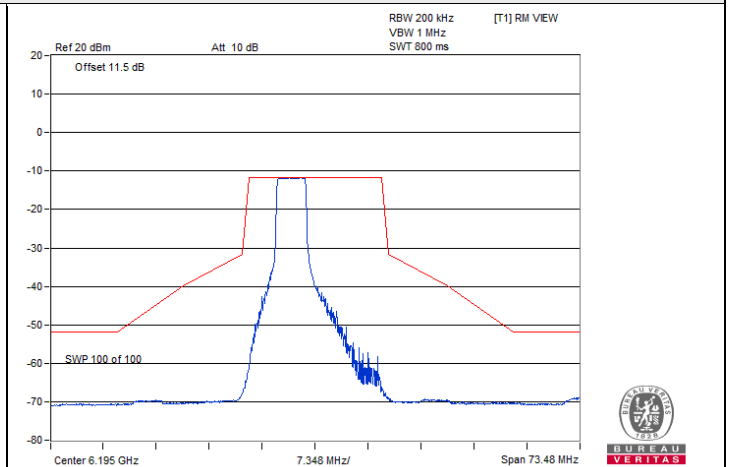


802.11be (EHT20) 52-tone RU

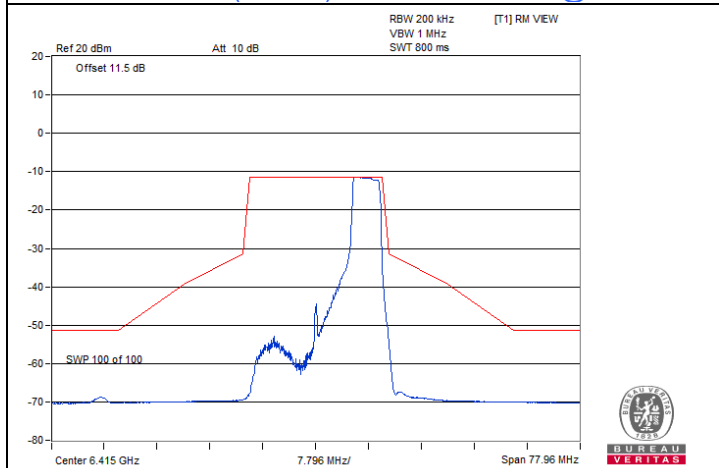
Spectrum Plot



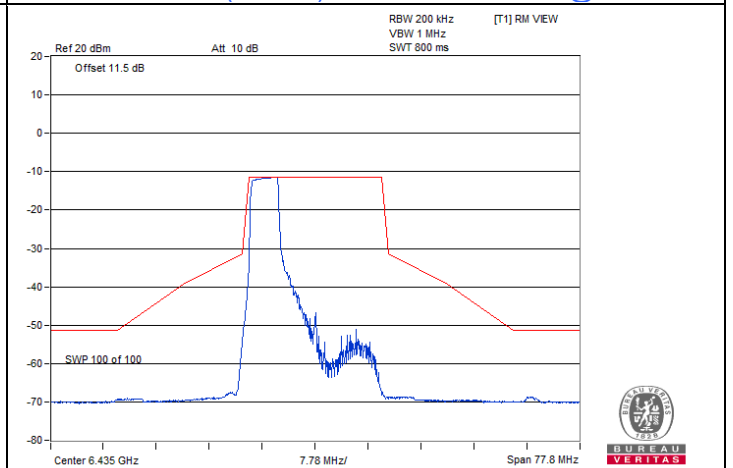
802.11be (EHT20) 52-tone RU : CH 1@37



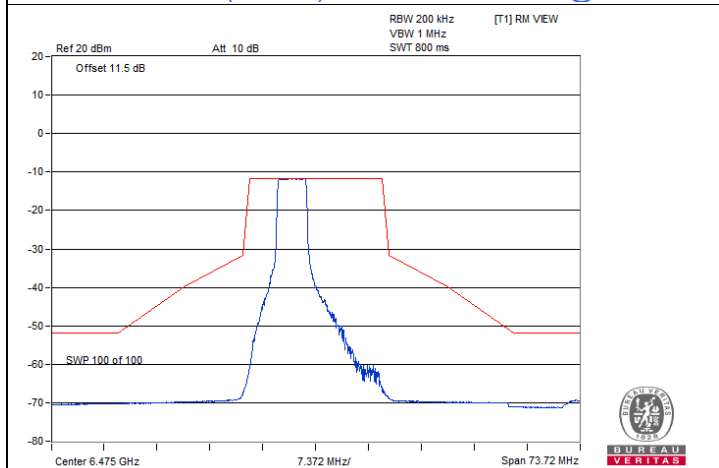
802.11be (EHT20) 52-tone RU : CH 49@38



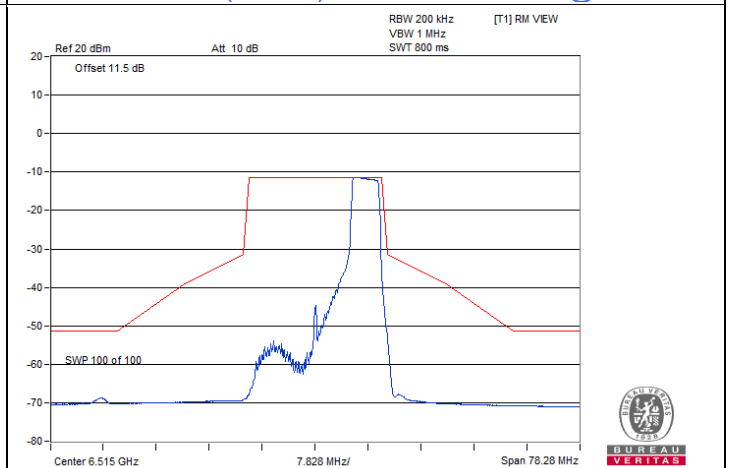
802.11be (EHT20) 52-tone RU : CH 93@40



802.11be (EHT20) 52-tone RU : CH 97@37

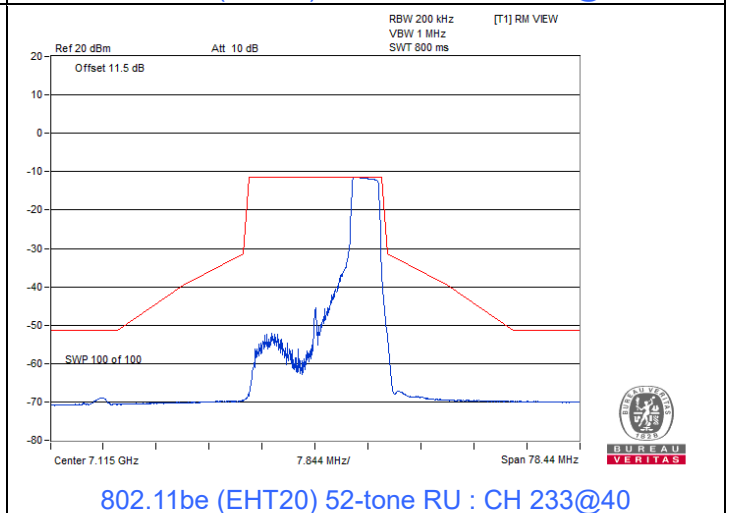
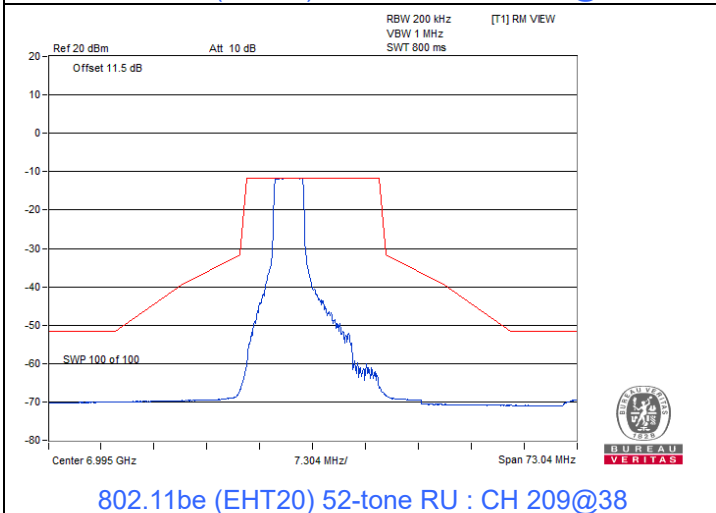
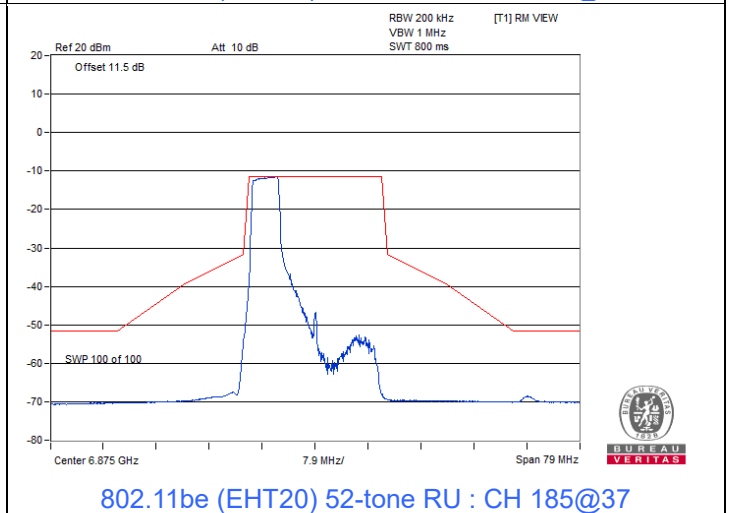
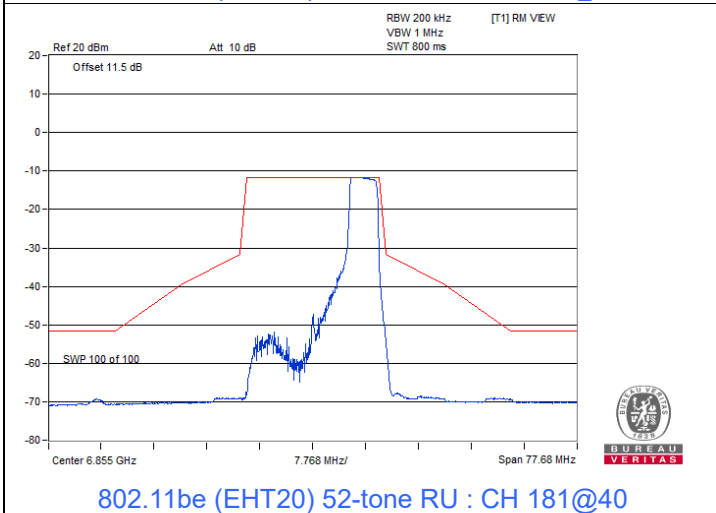
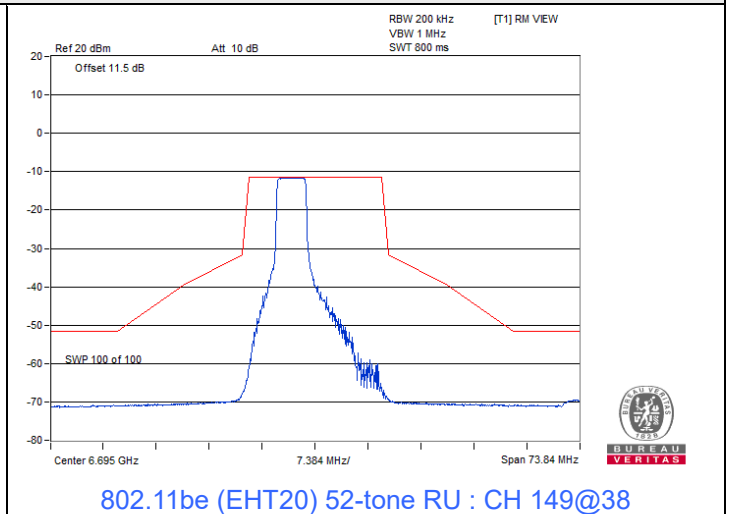
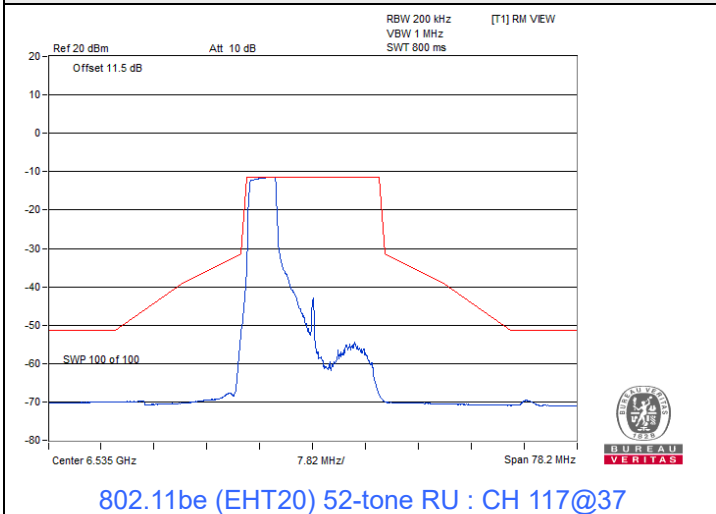


802.11be (EHT20) 52-tone RU : CH 105@38



802.11be (EHT20) 52-tone RU : CH 113@40

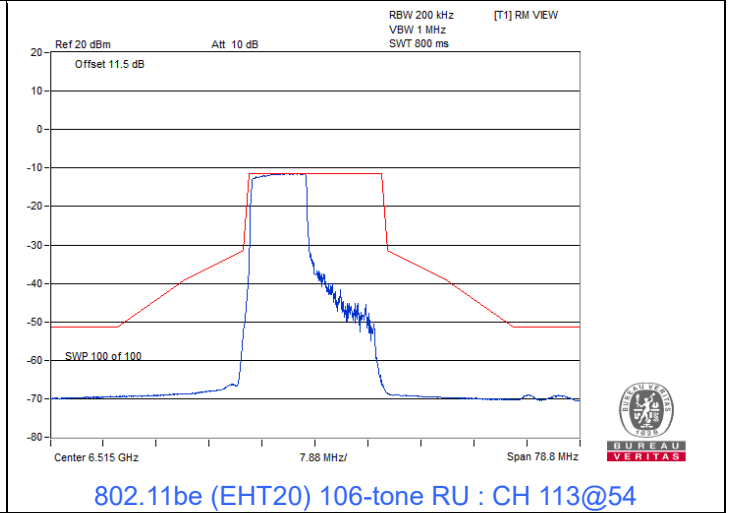
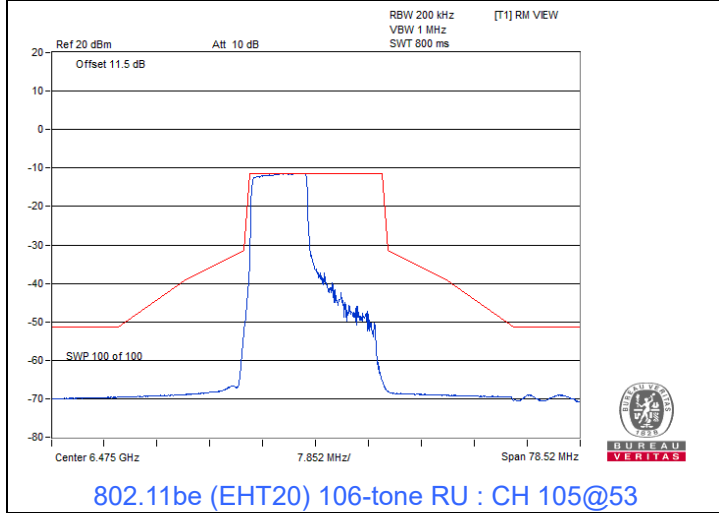
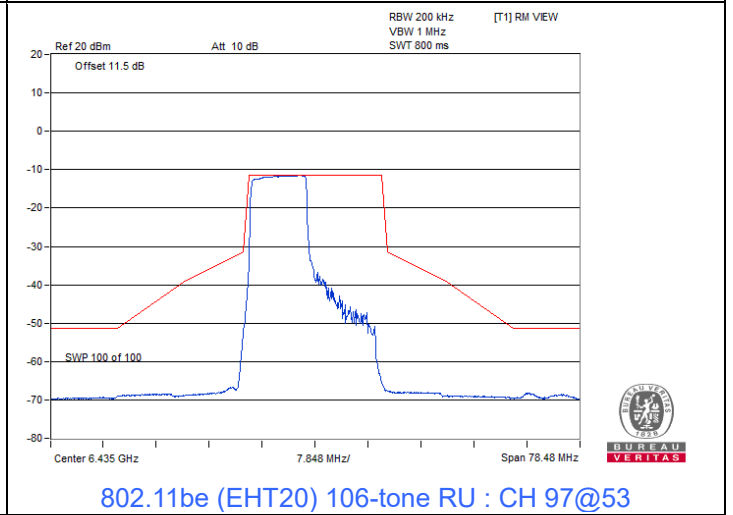
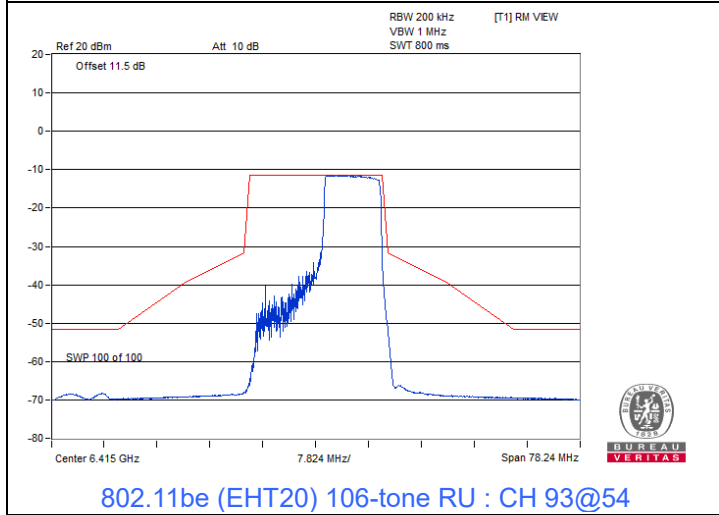
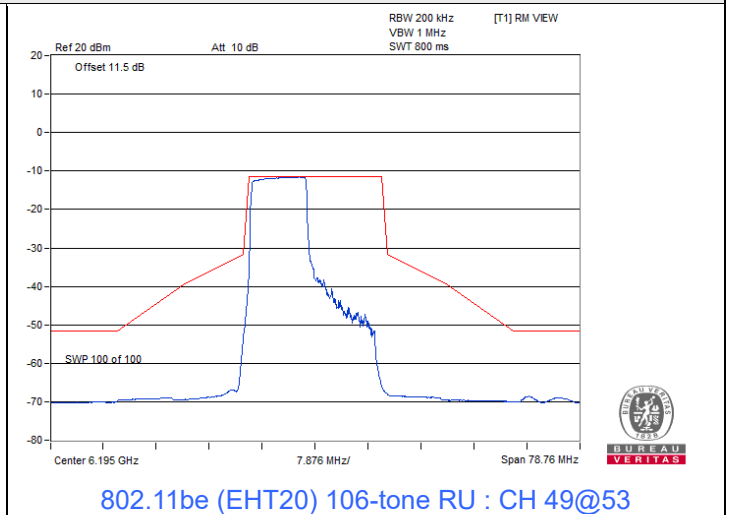
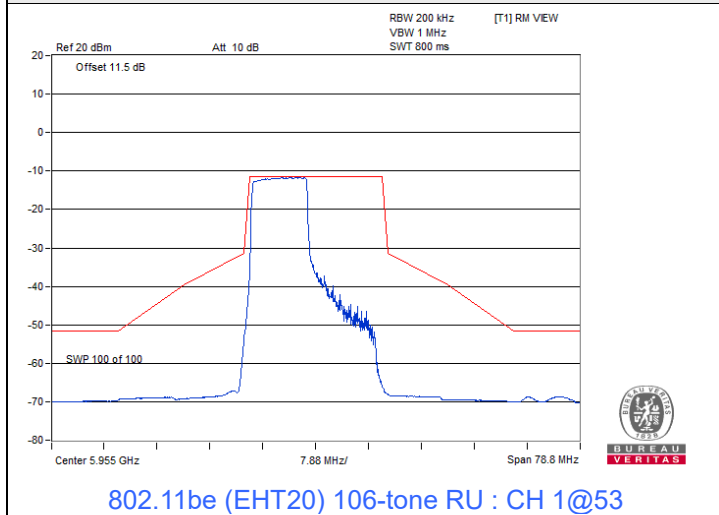
Spectrum Plot



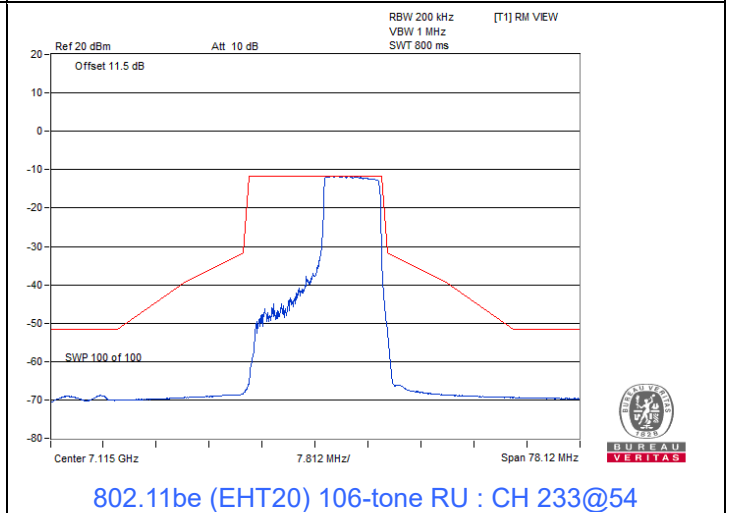
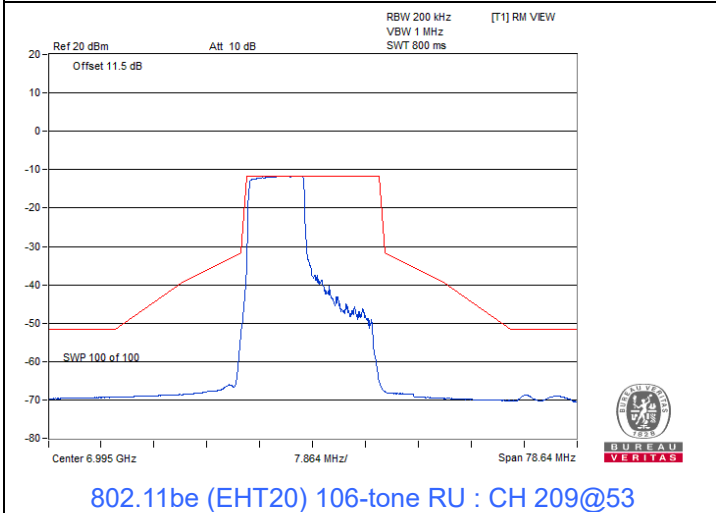
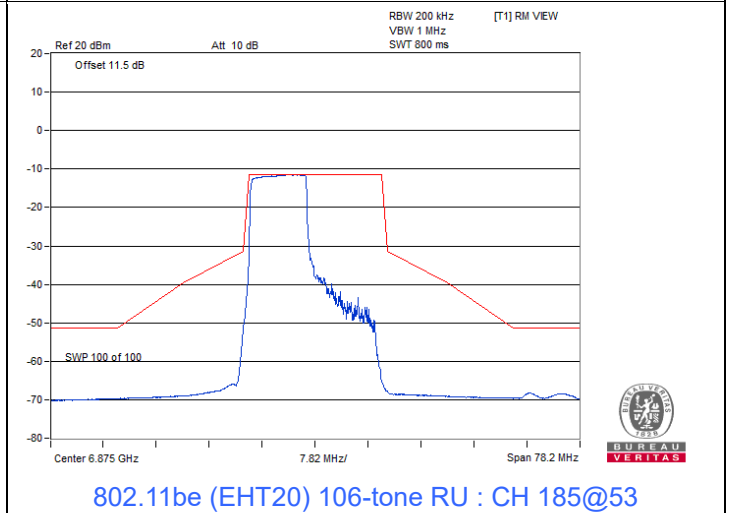
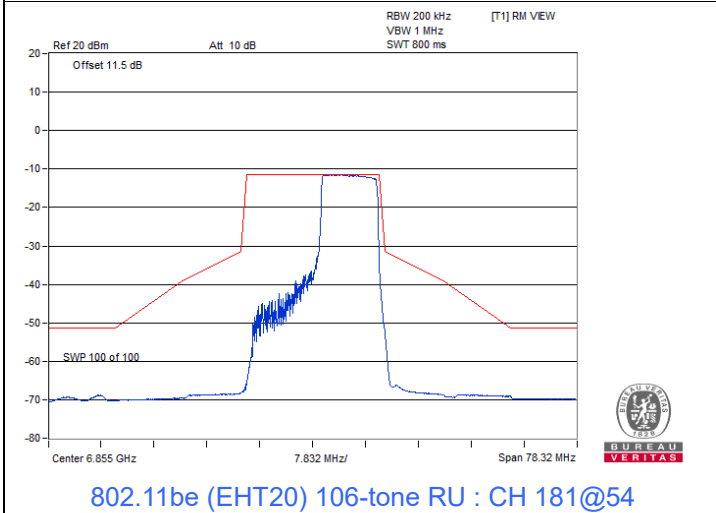
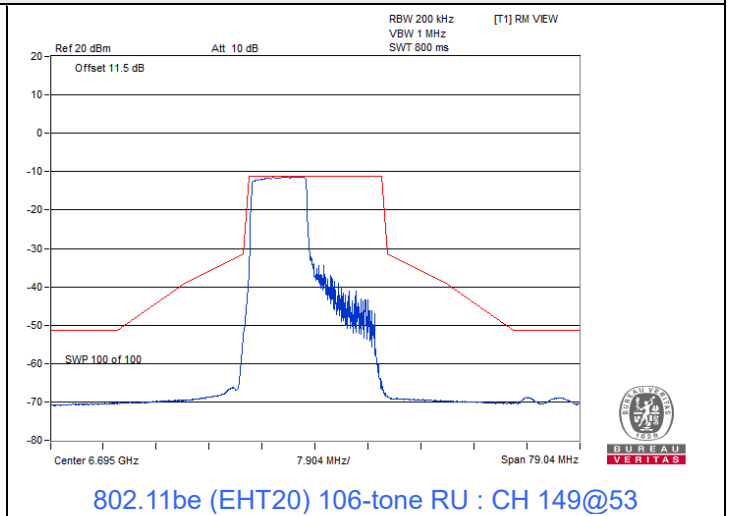
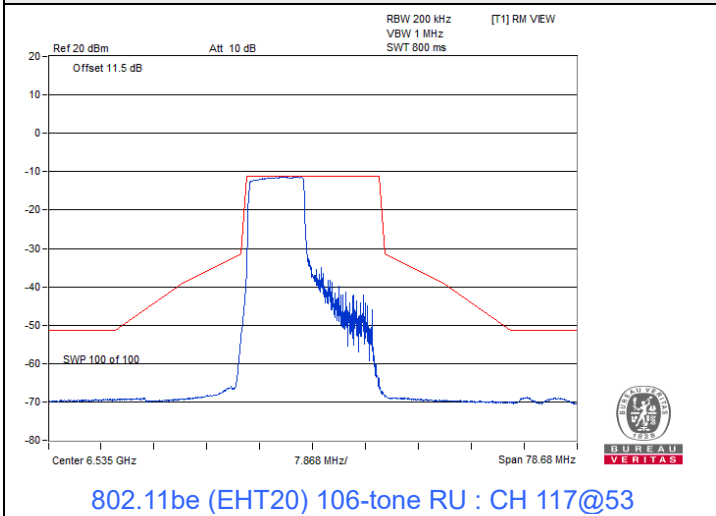


802.11be (EHT20) 106-tone RU

Spectrum Plot



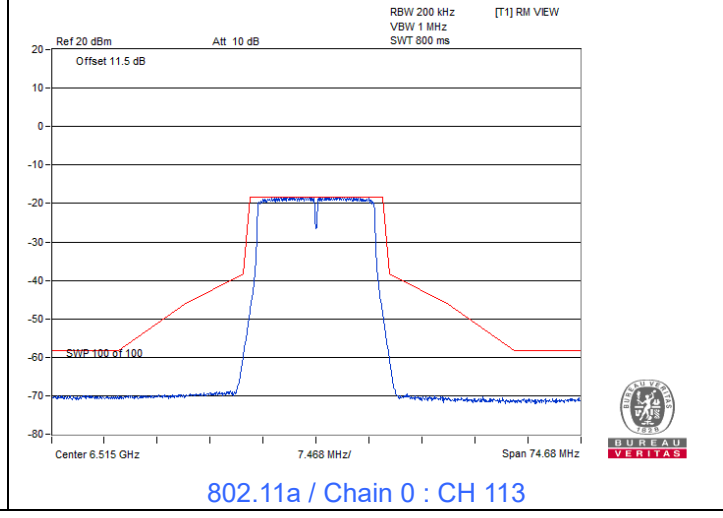
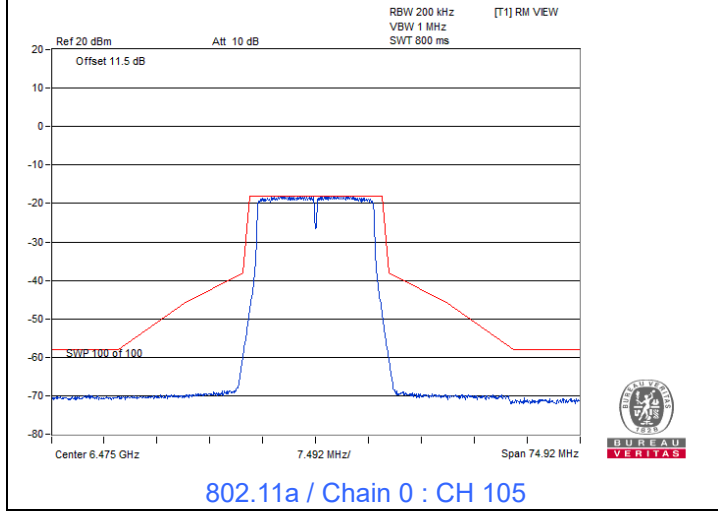
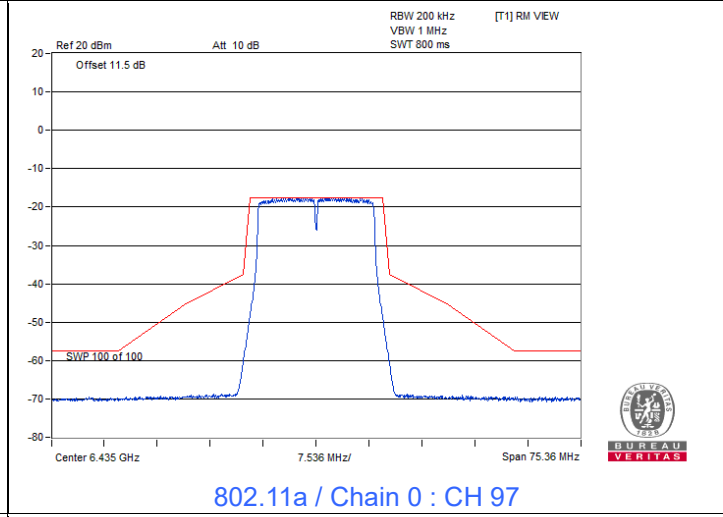
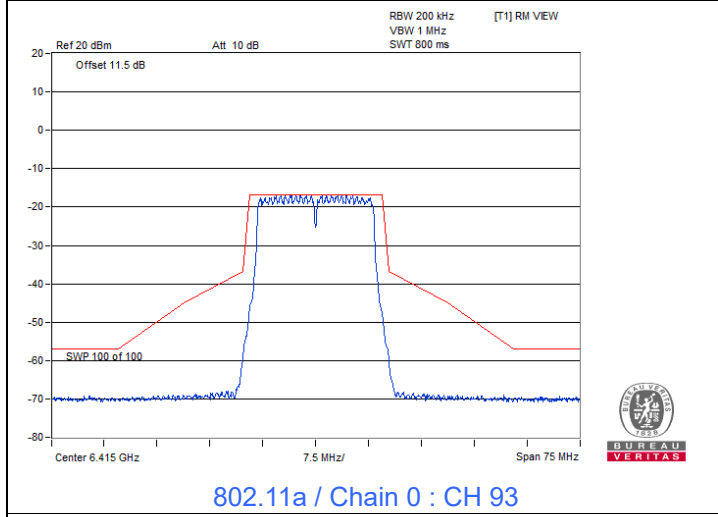
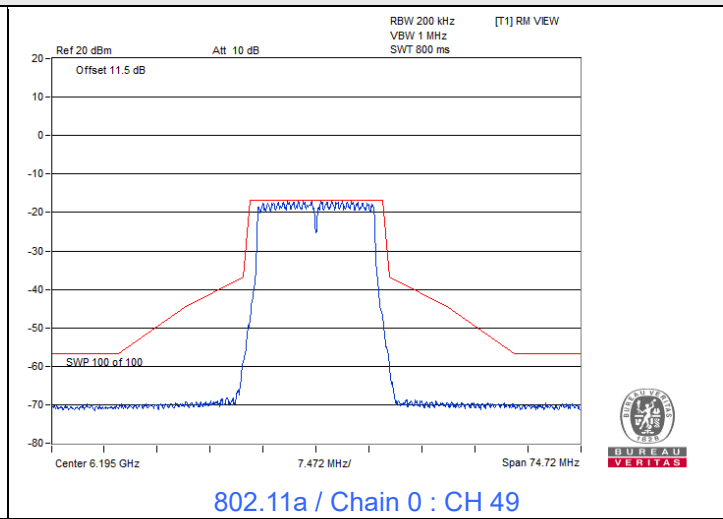
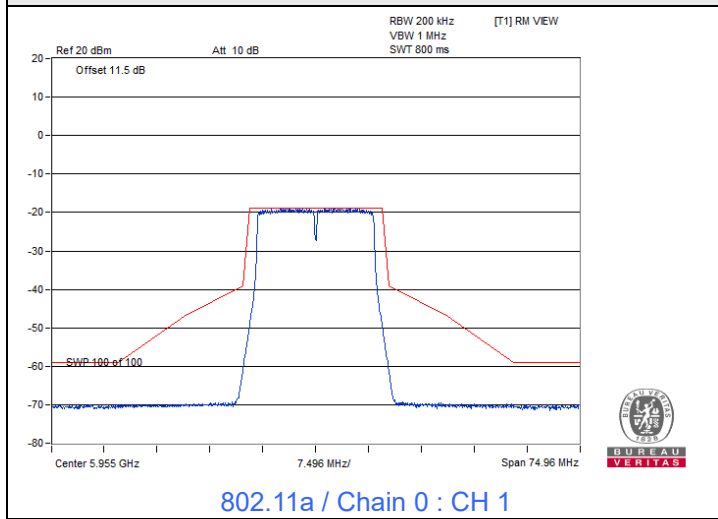
Spectrum Plot



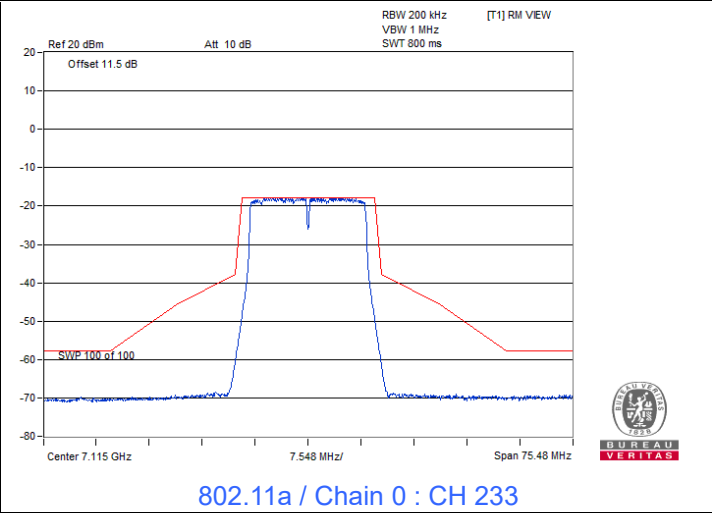
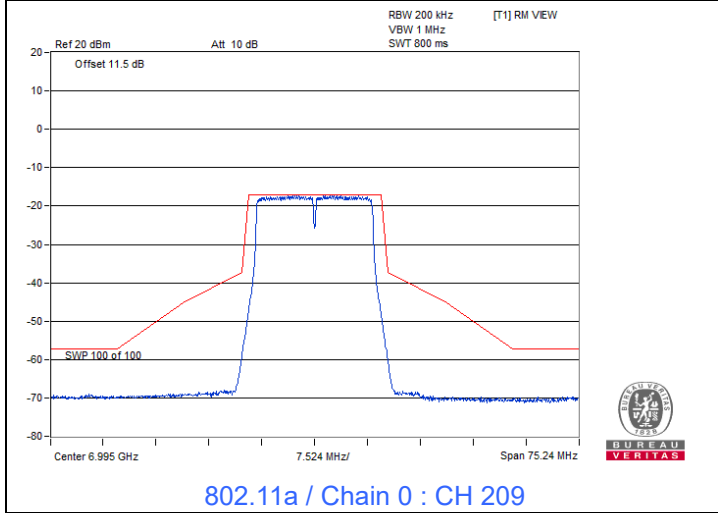
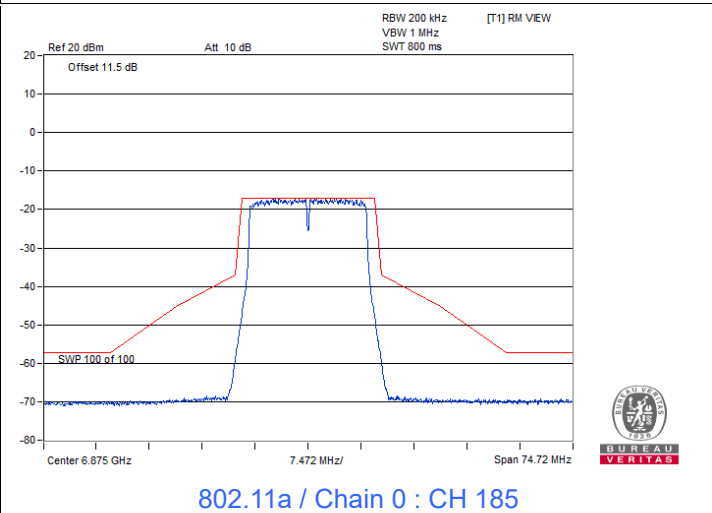
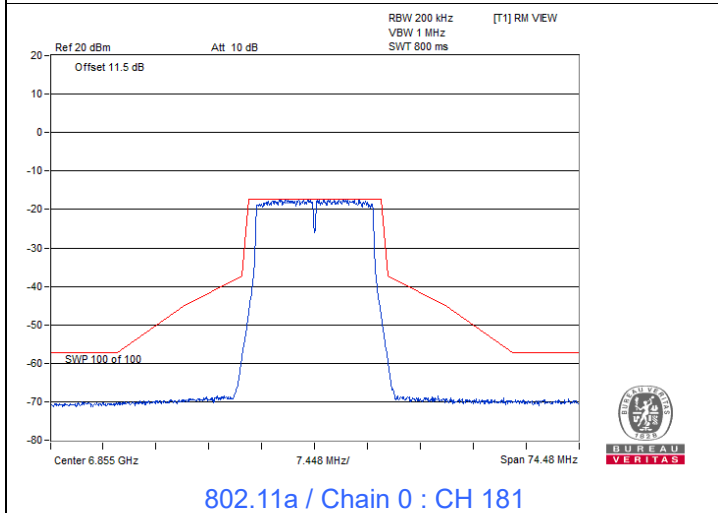
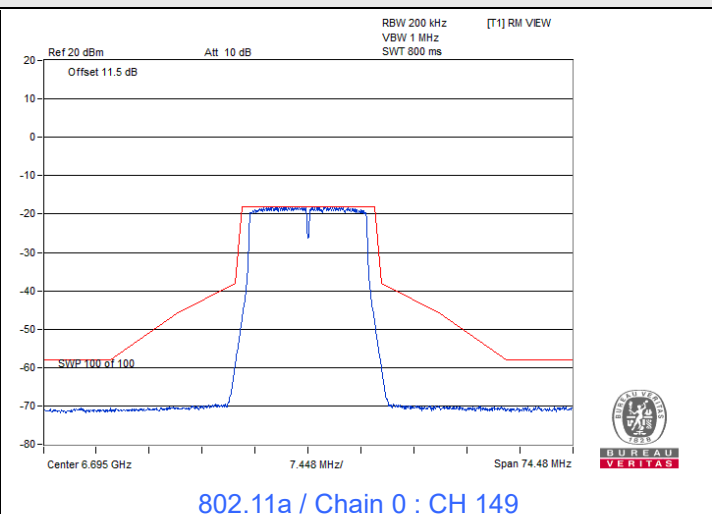
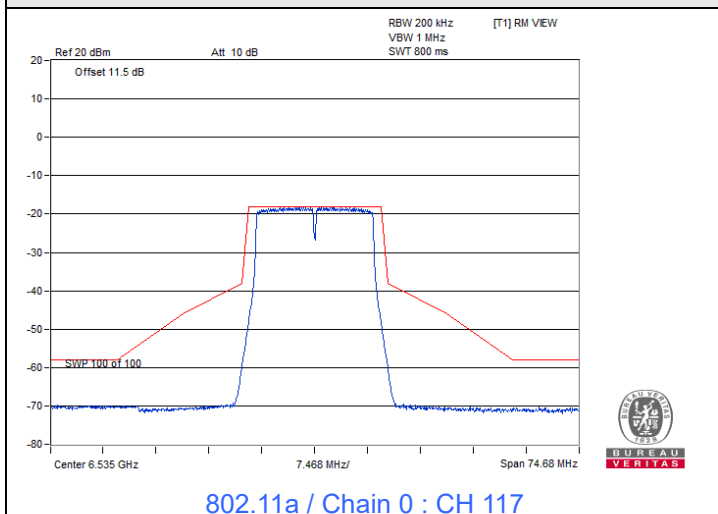
2TX

802.11a

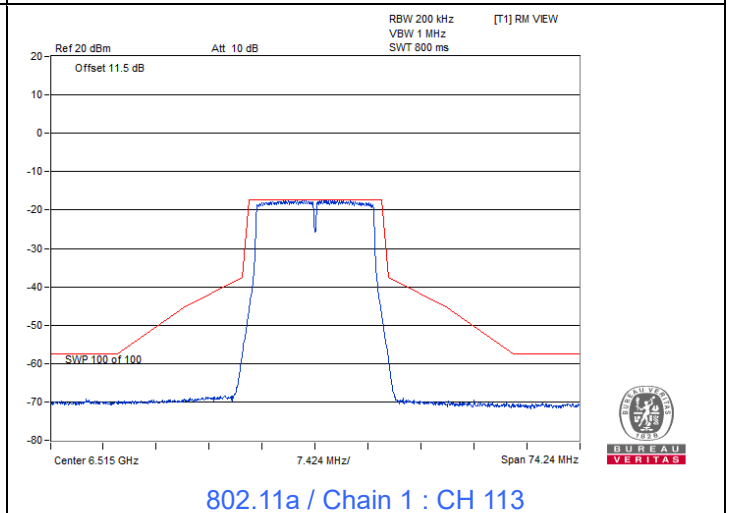
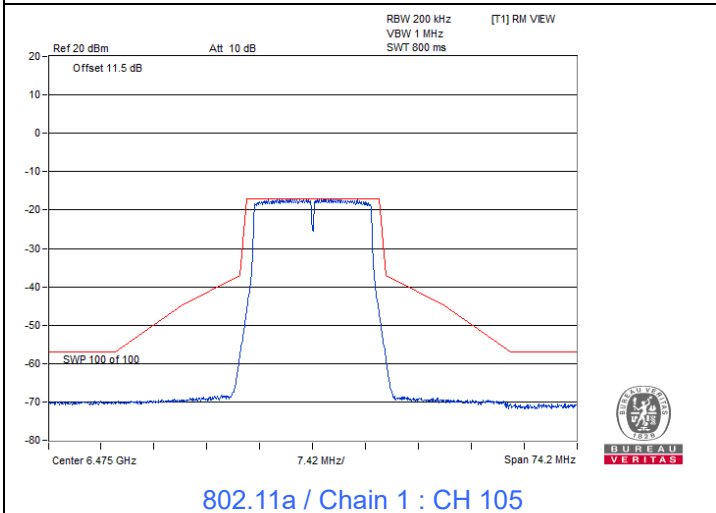
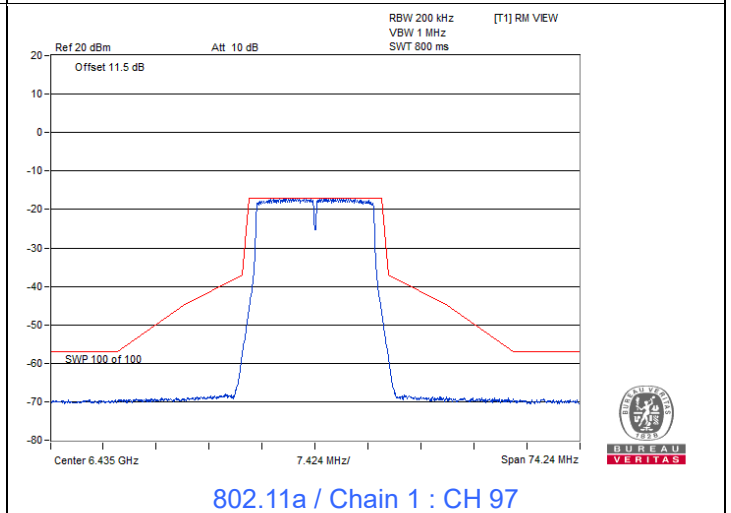
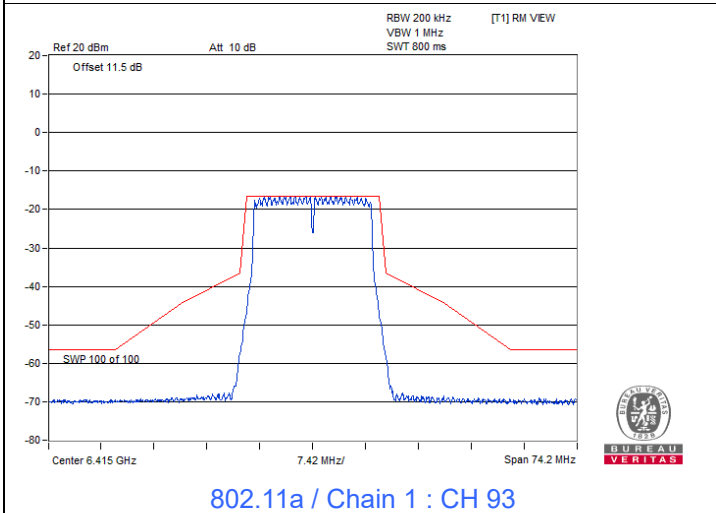
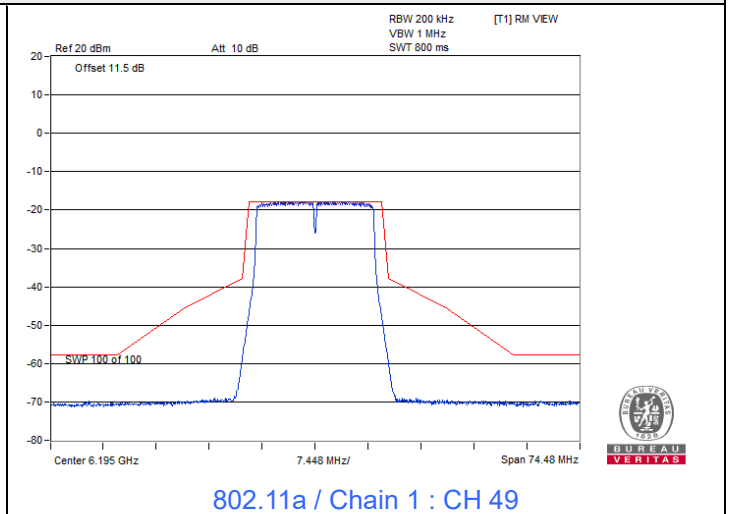
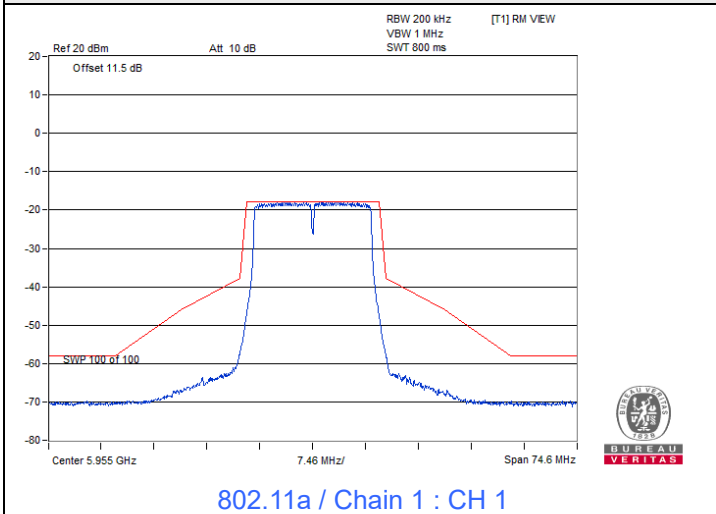
Spectrum Plot



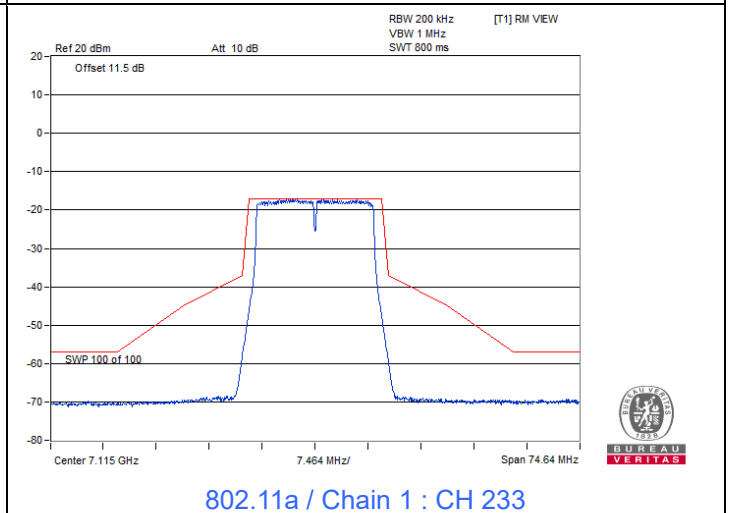
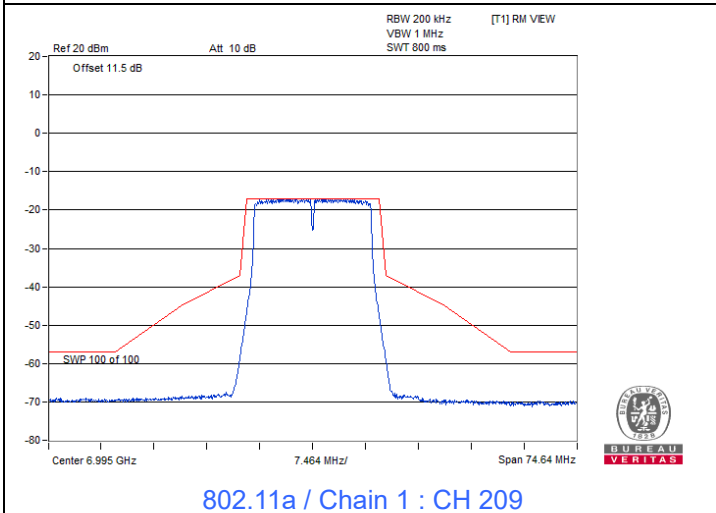
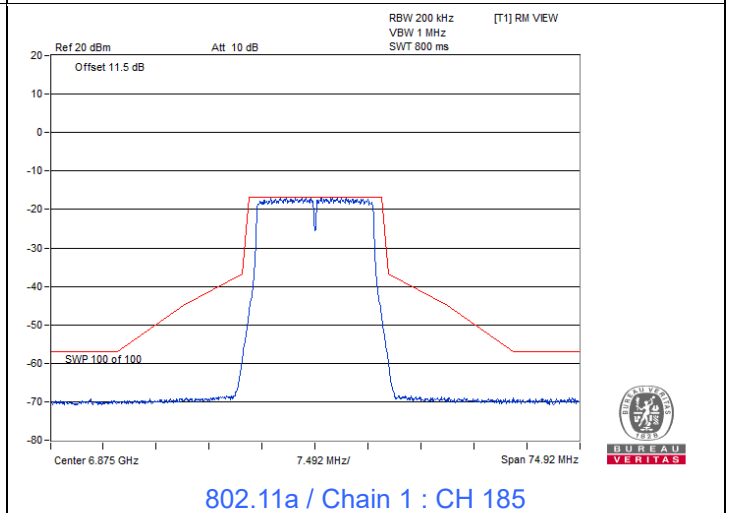
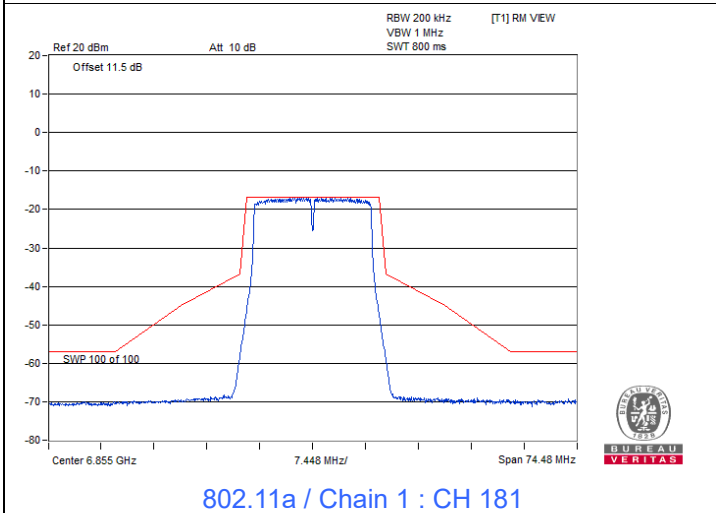
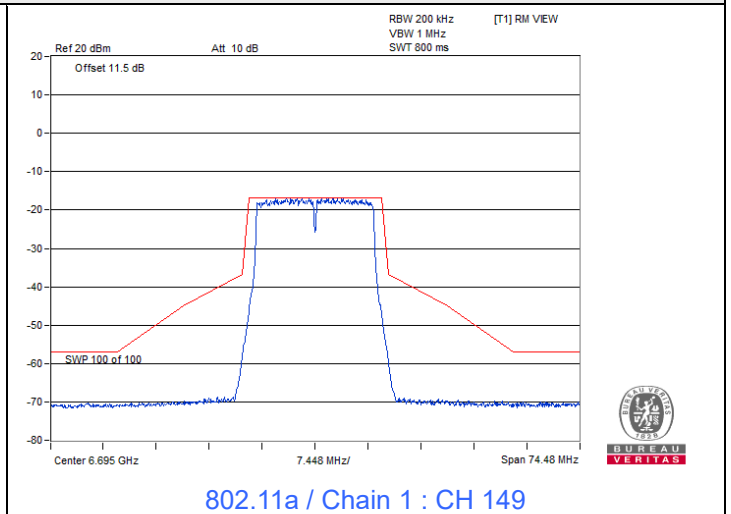
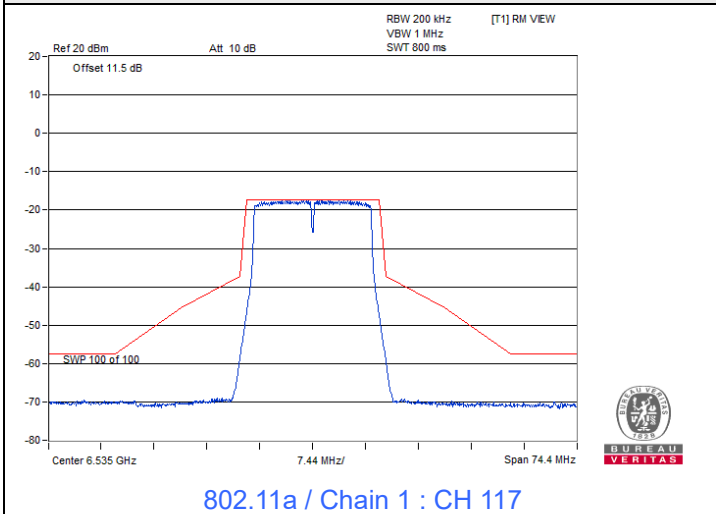
Spectrum Plot



Spectrum Plot



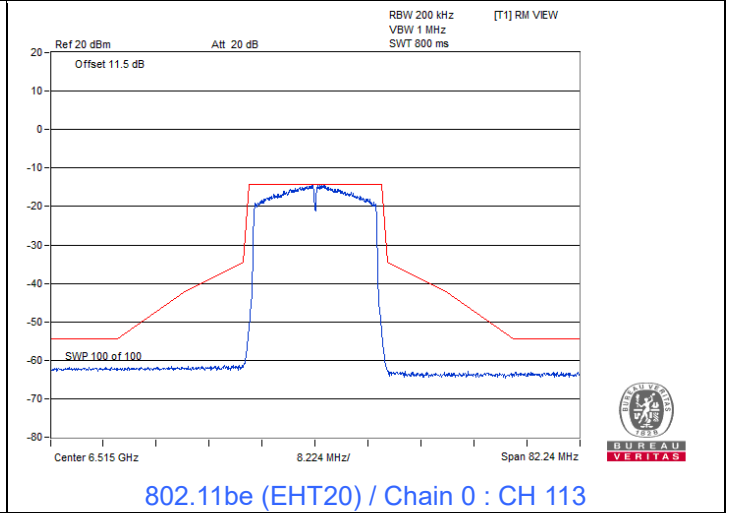
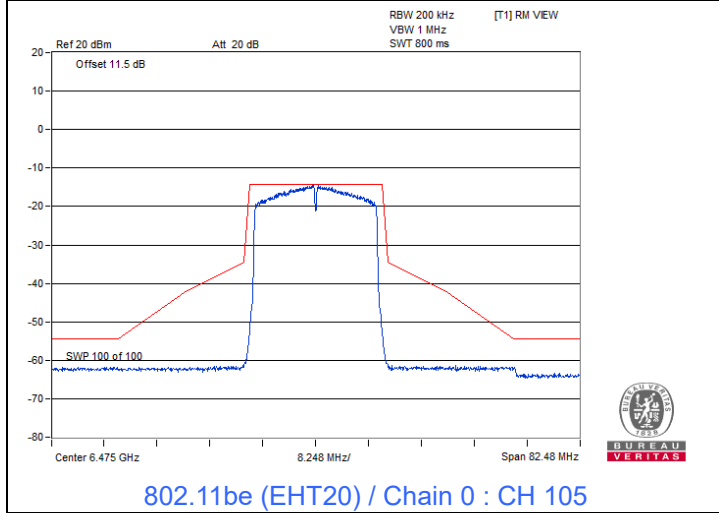
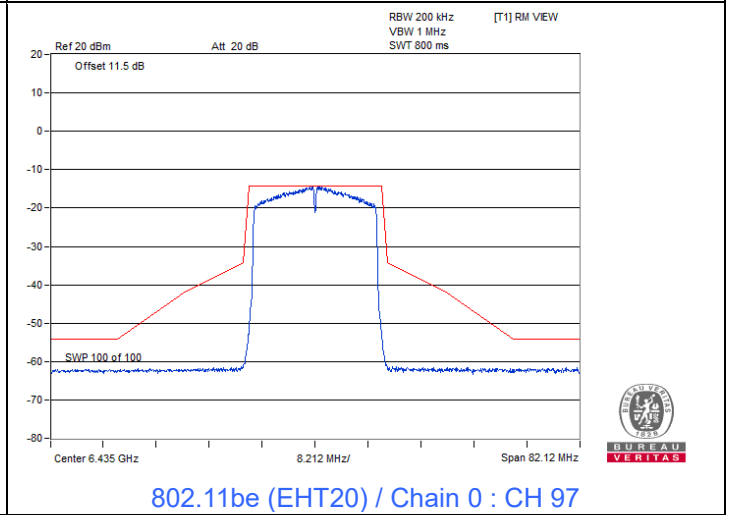
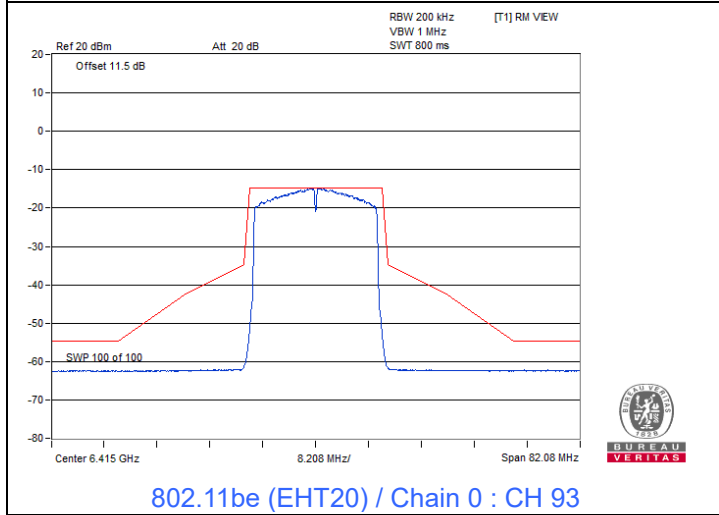
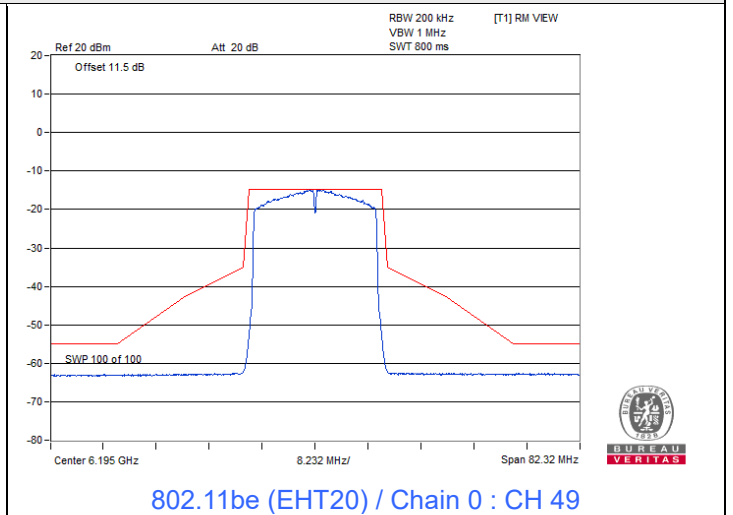
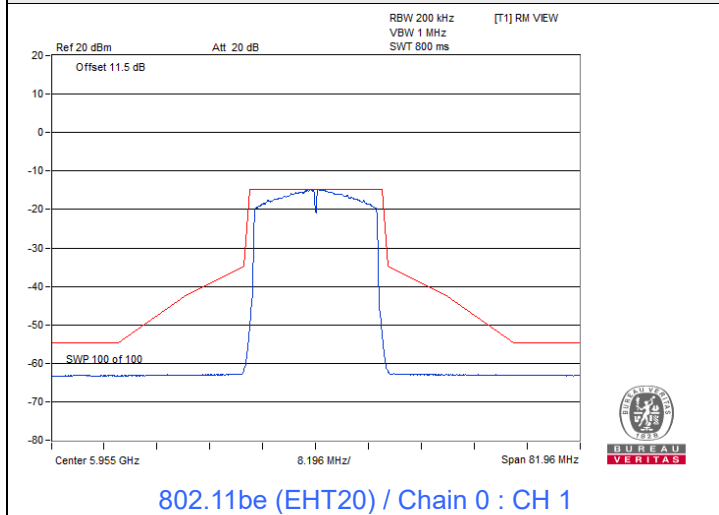
Spectrum Plot



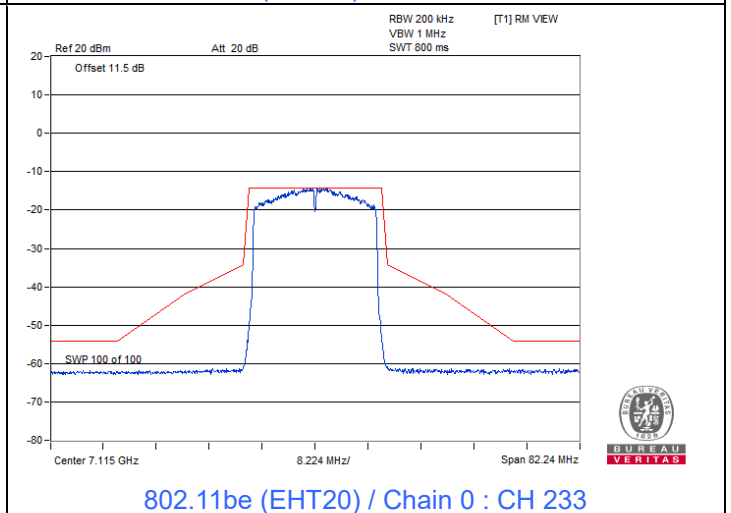
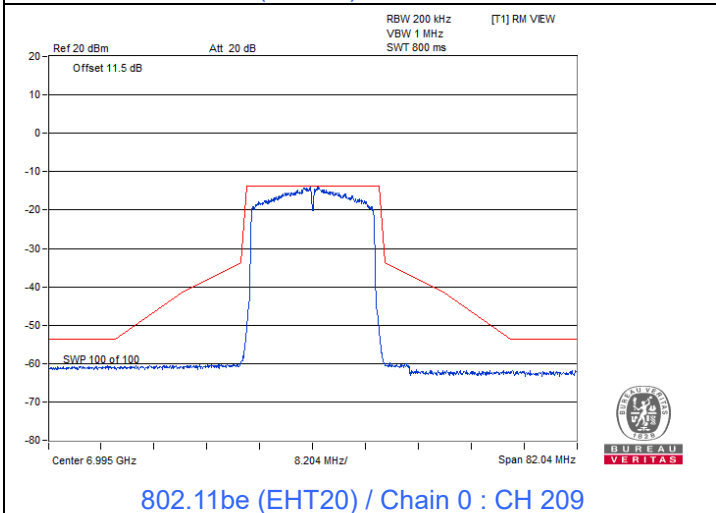
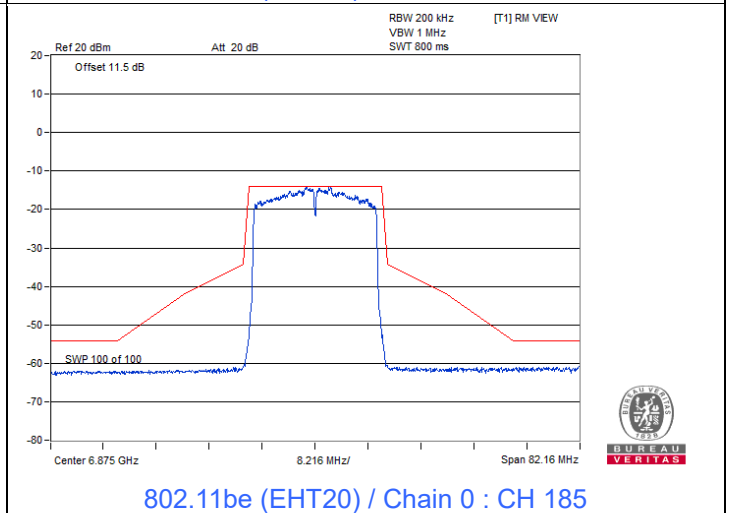
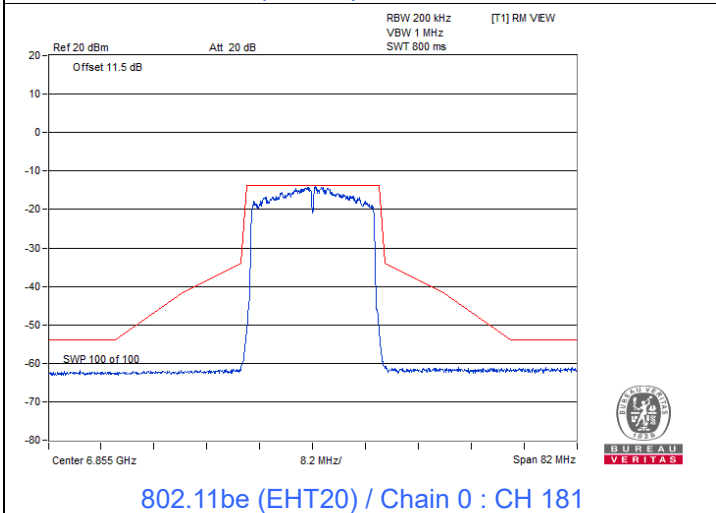
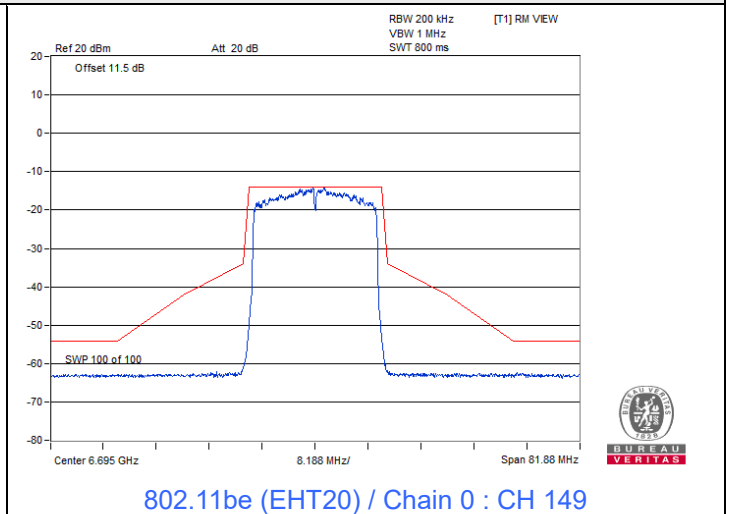
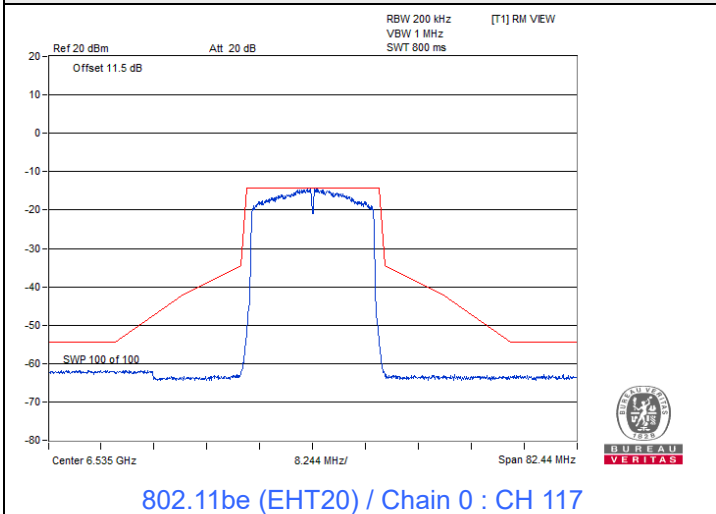


802.11be (EHT20)

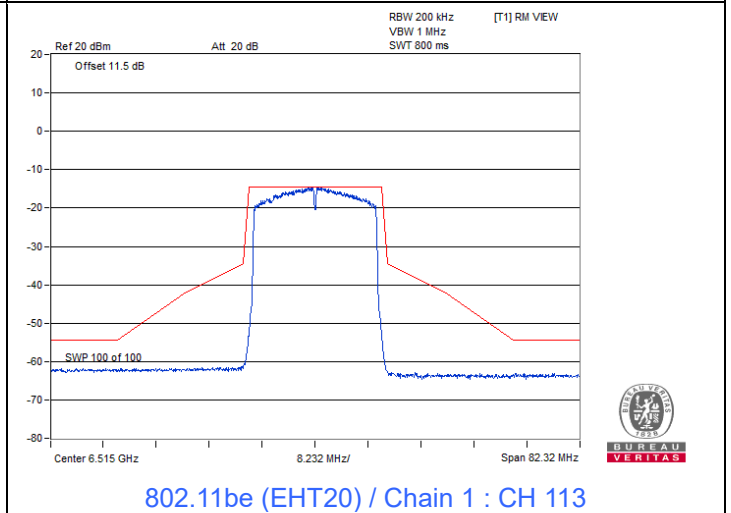
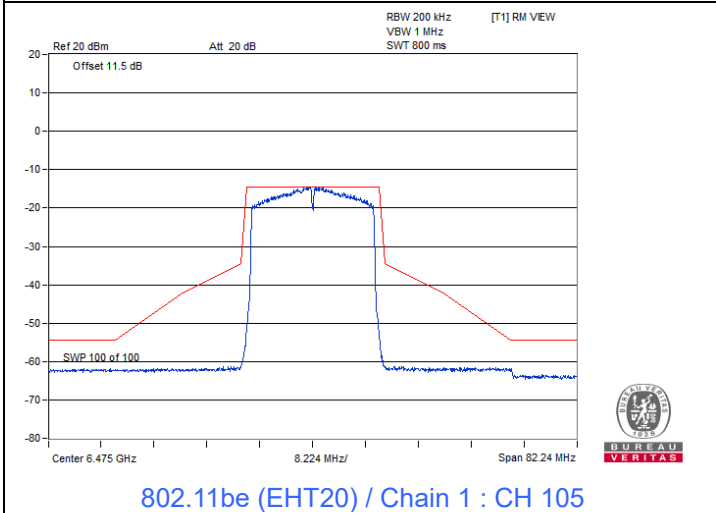
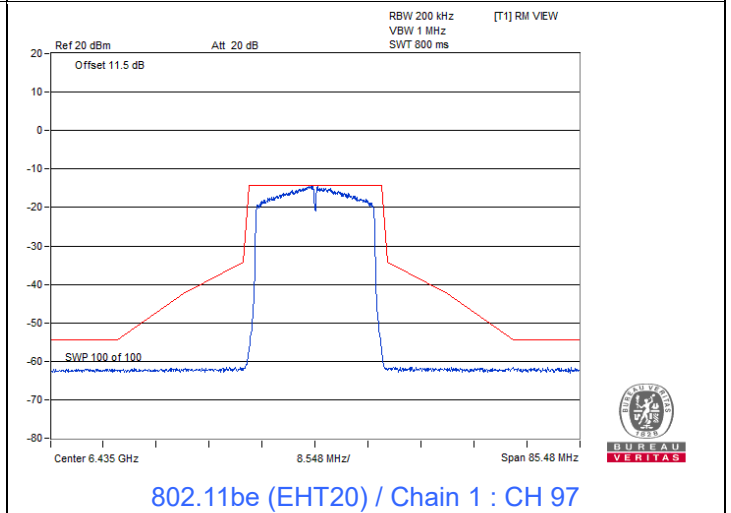
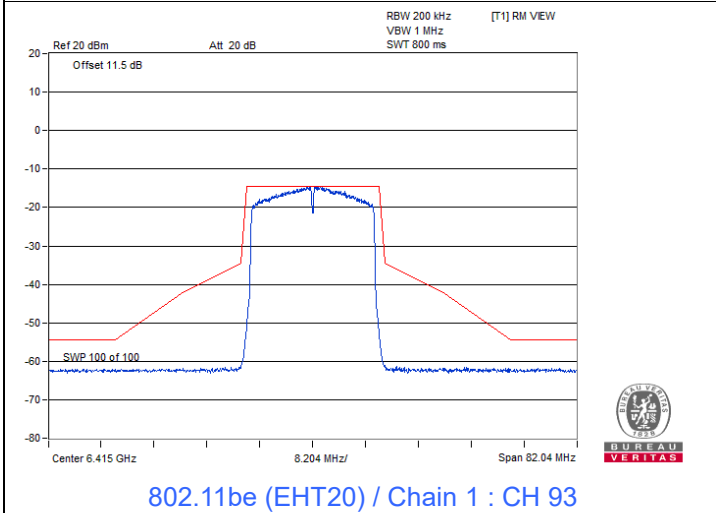
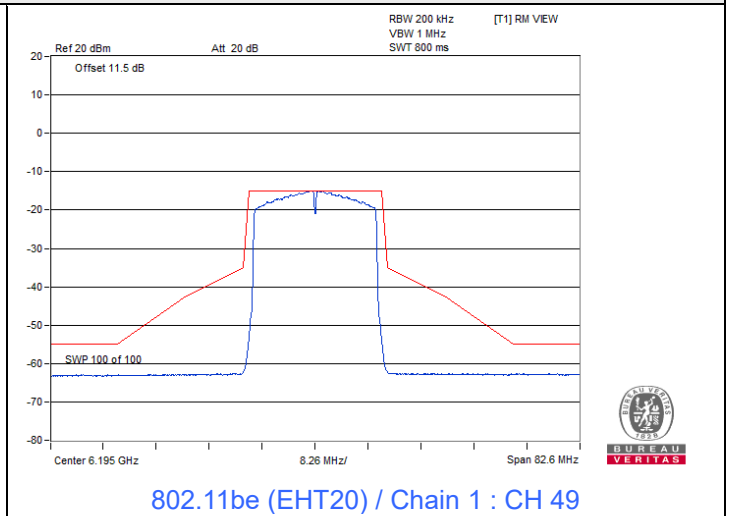
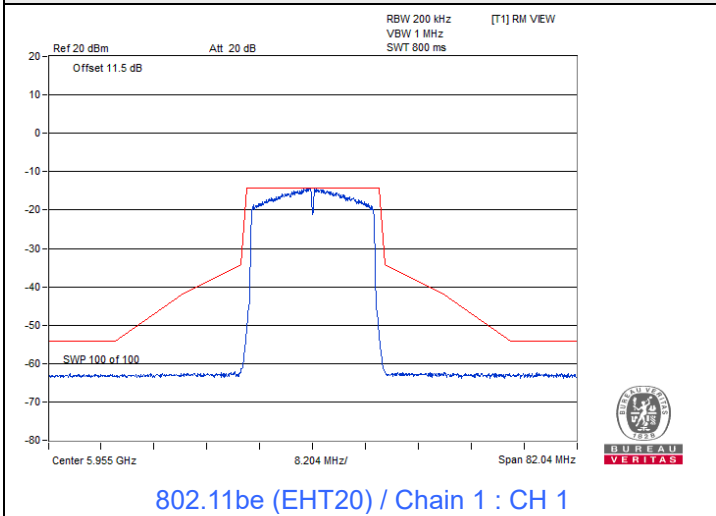
Spectrum Plot



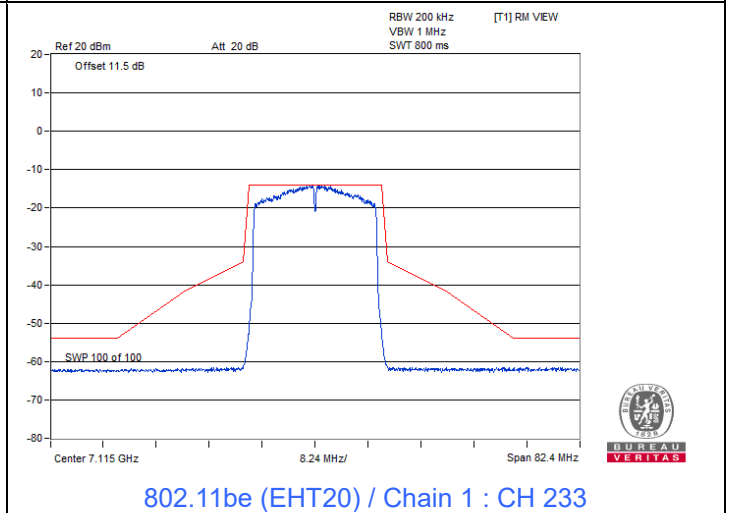
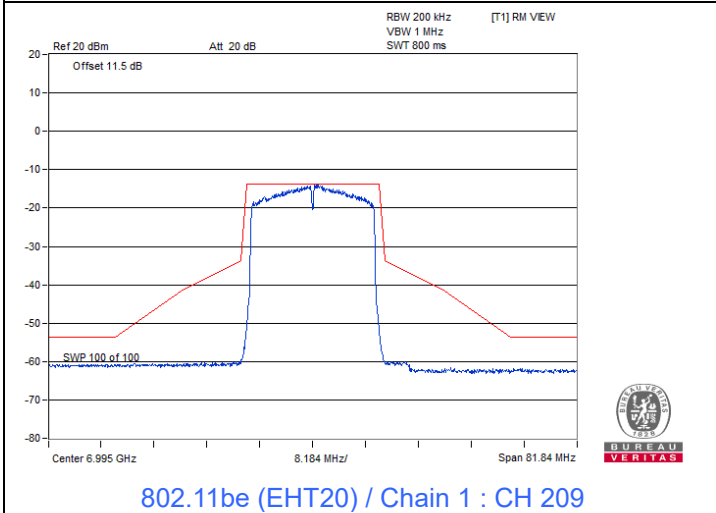
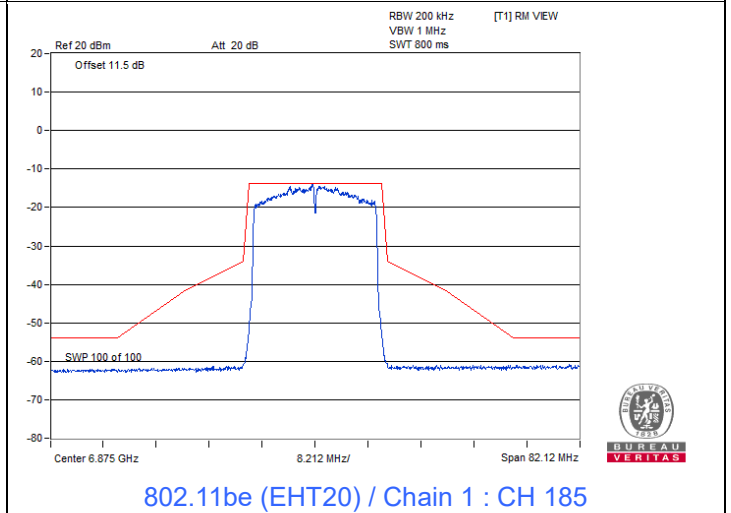
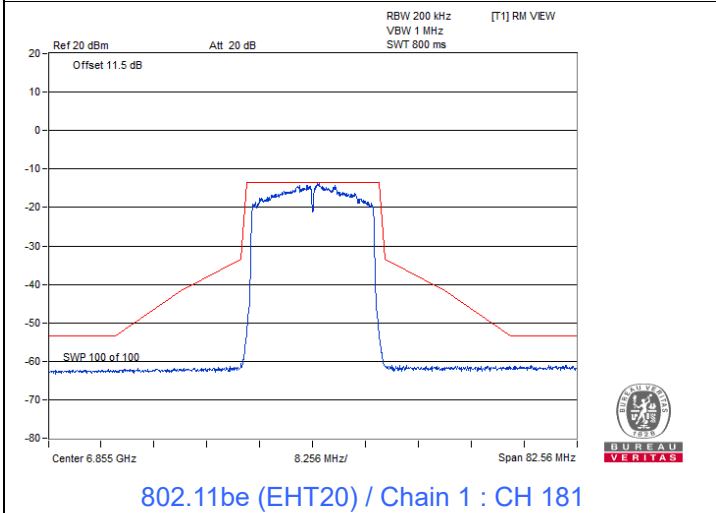
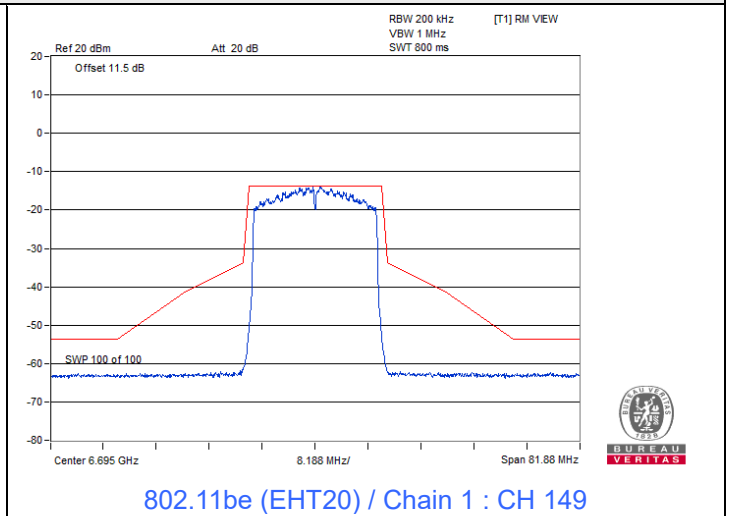
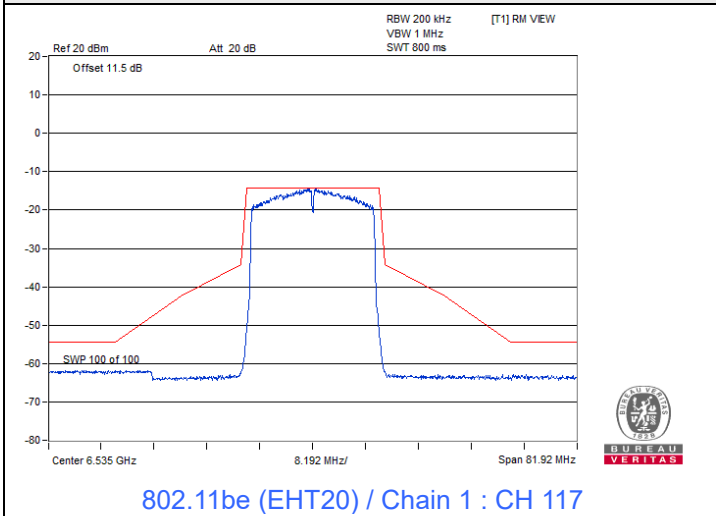
Spectrum Plot



Spectrum Plot

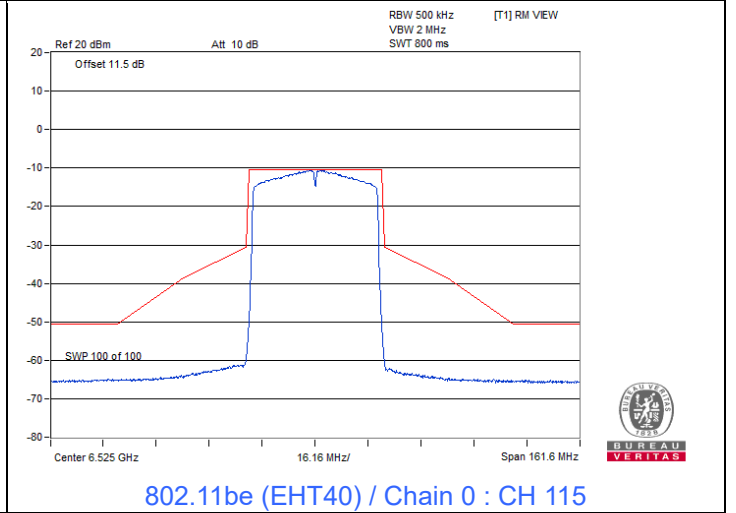
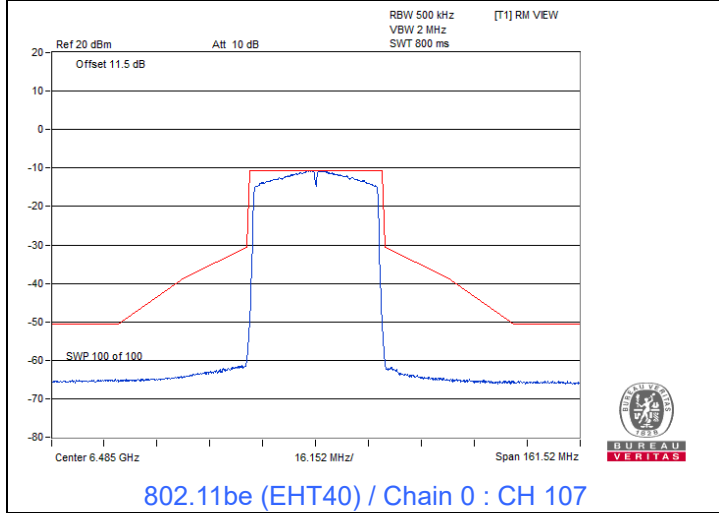
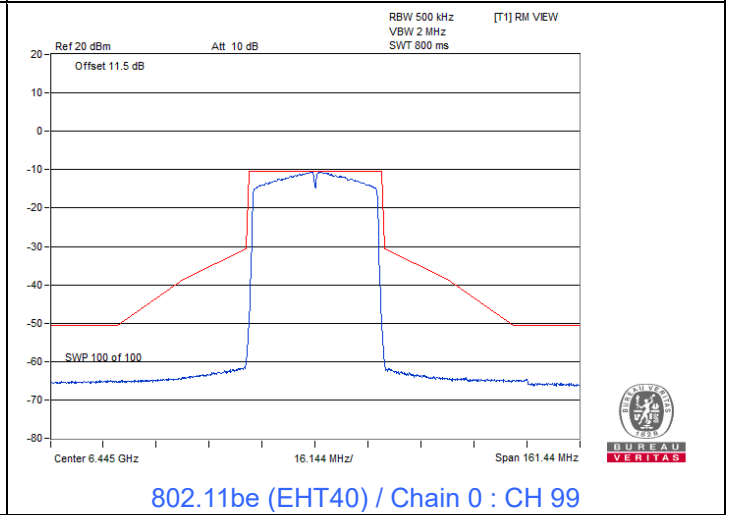
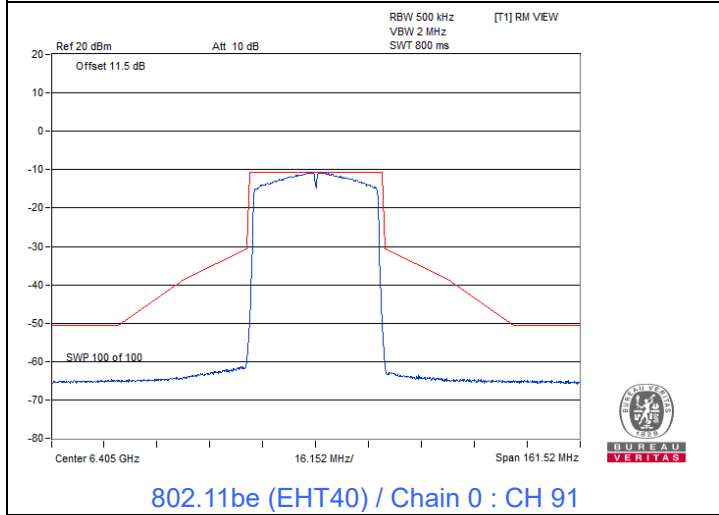
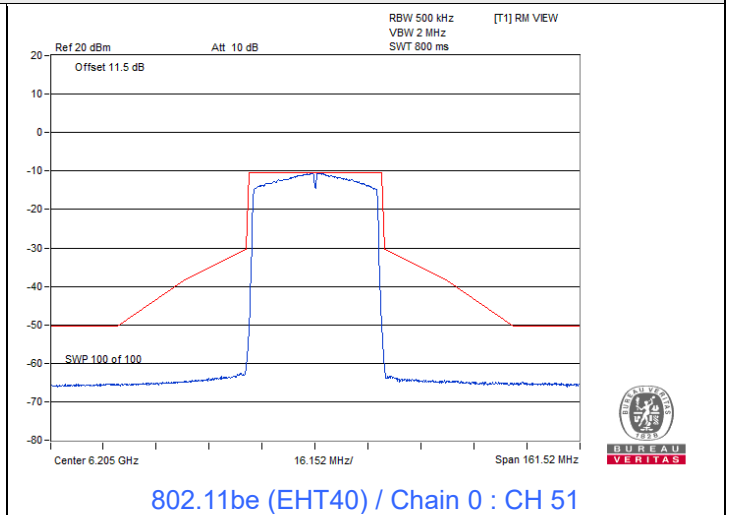
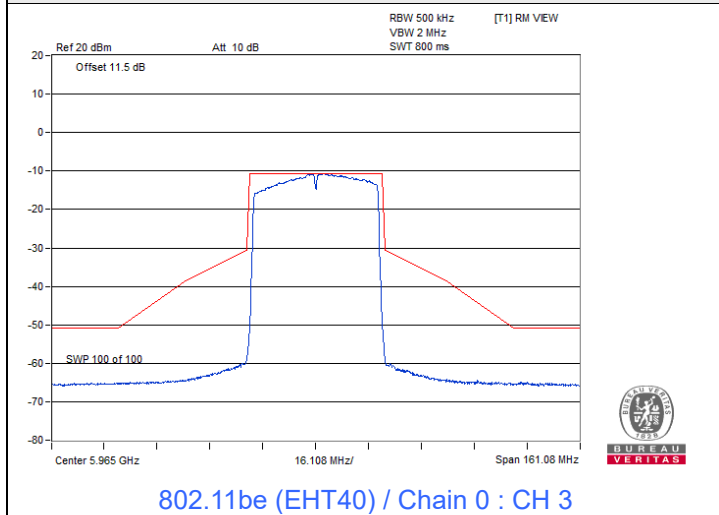


Spectrum Plot

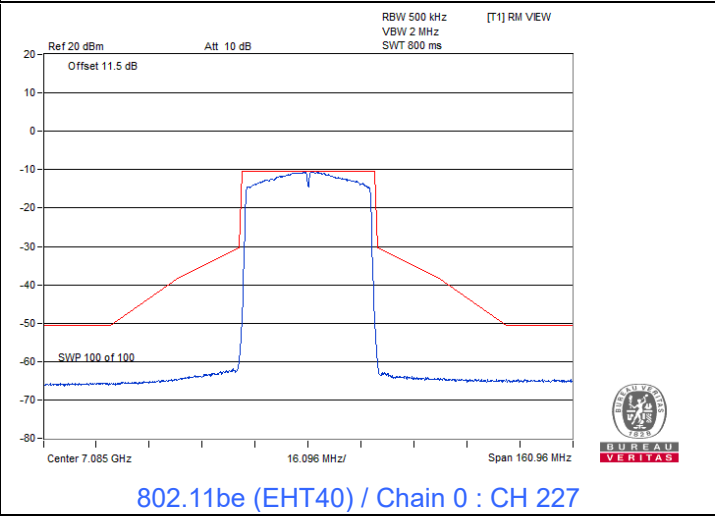
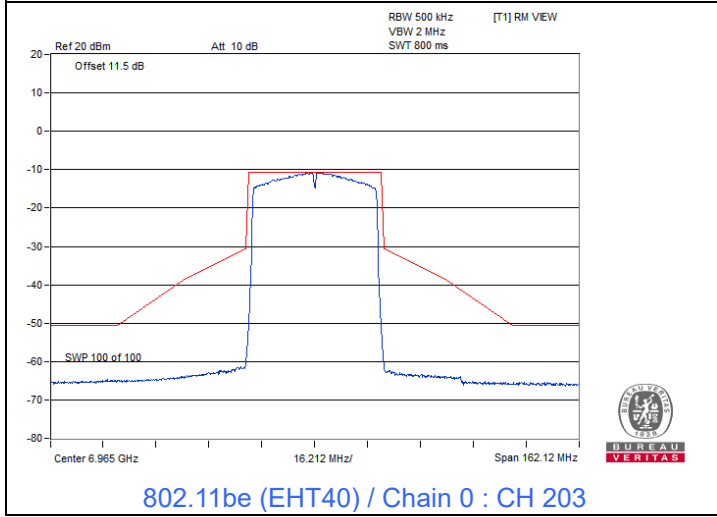
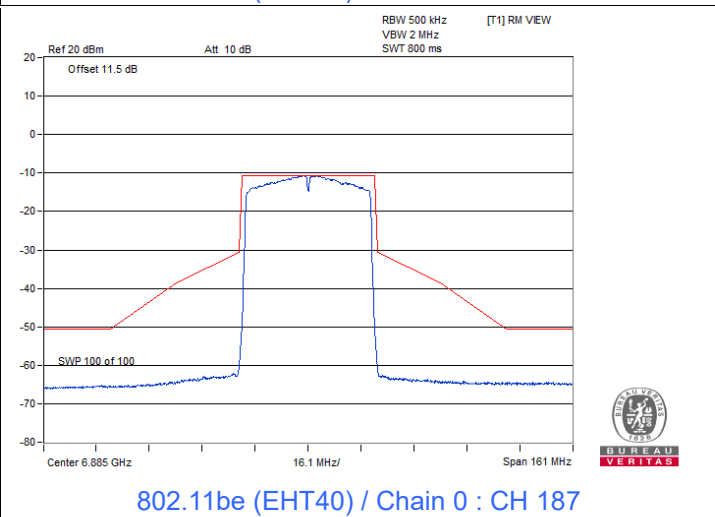
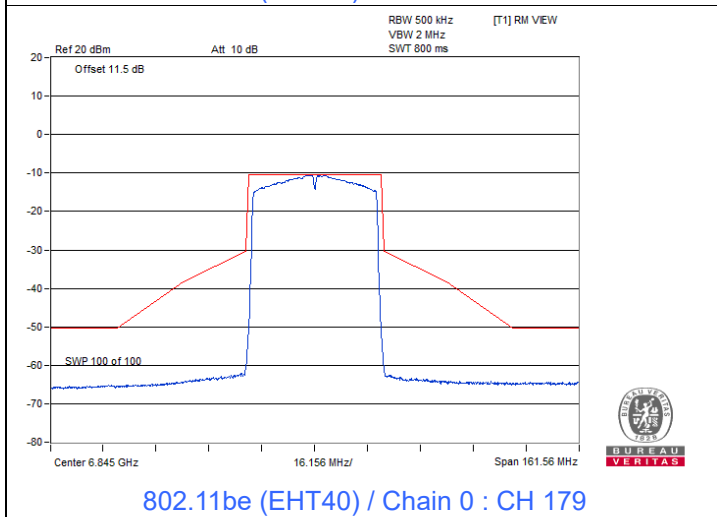
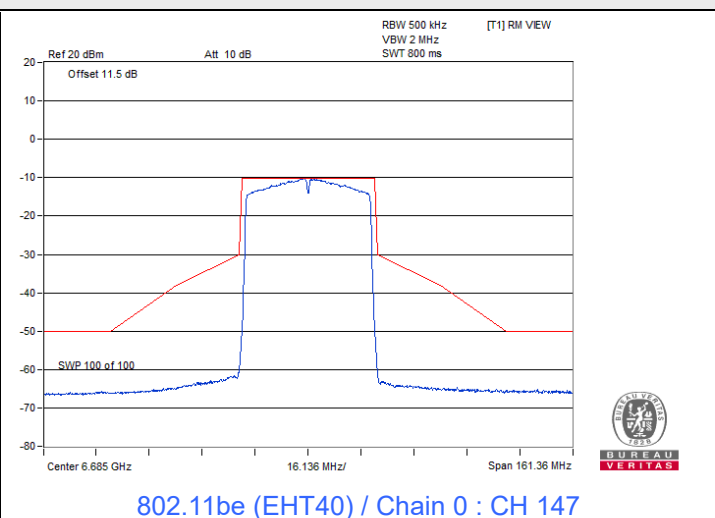
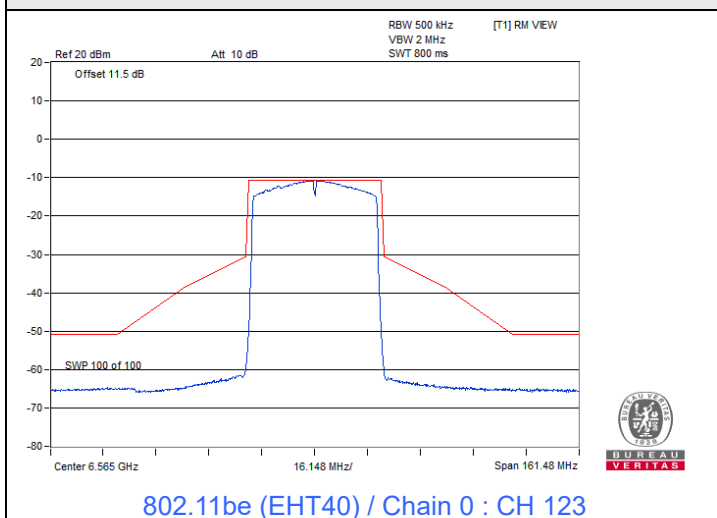


802.11be (EHT40)

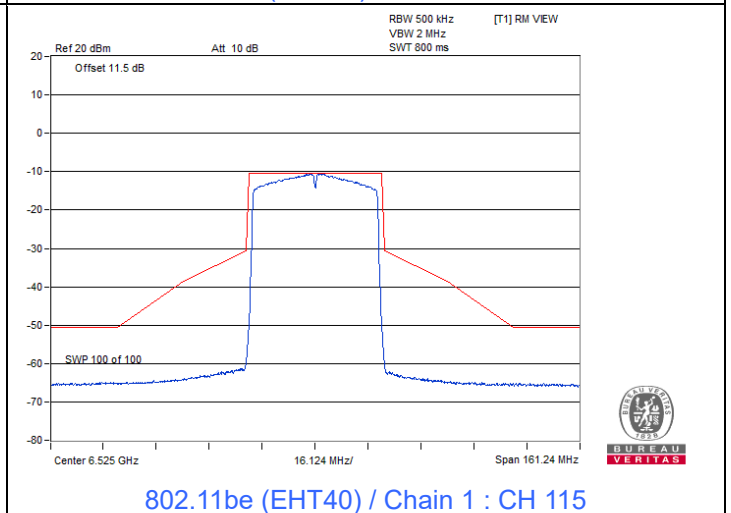
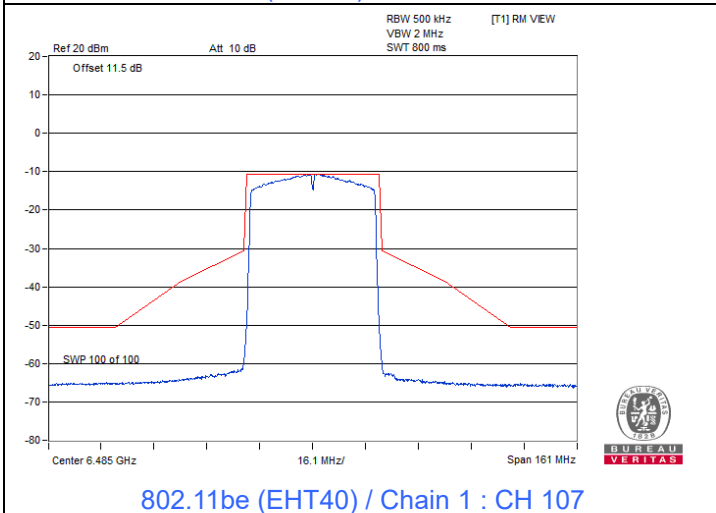
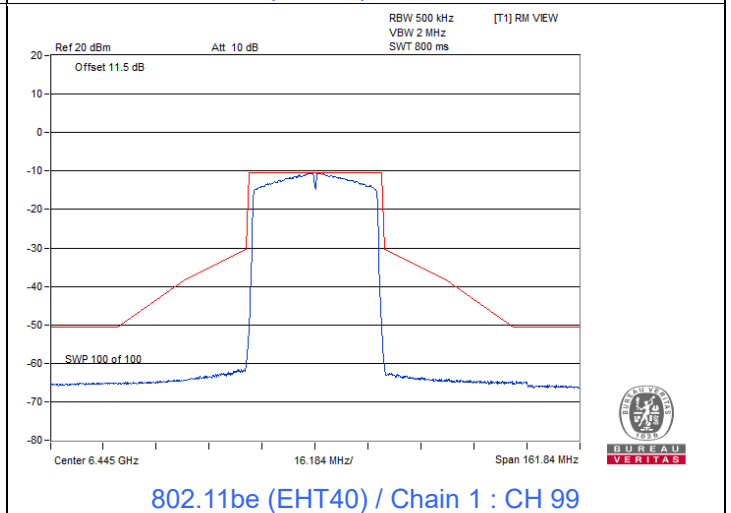
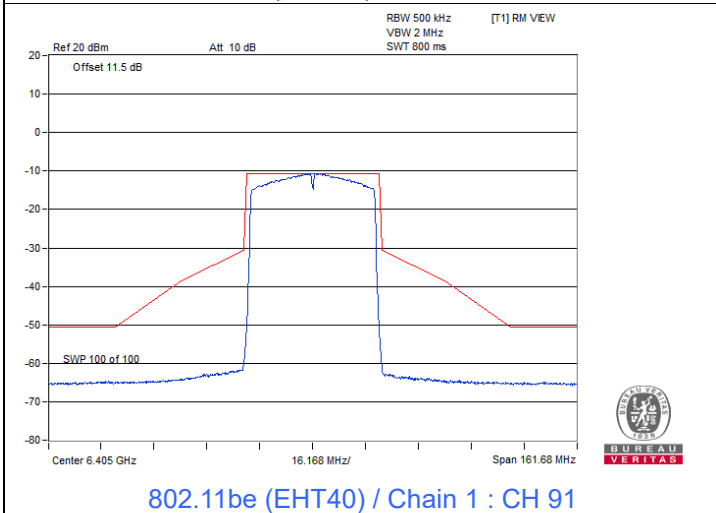
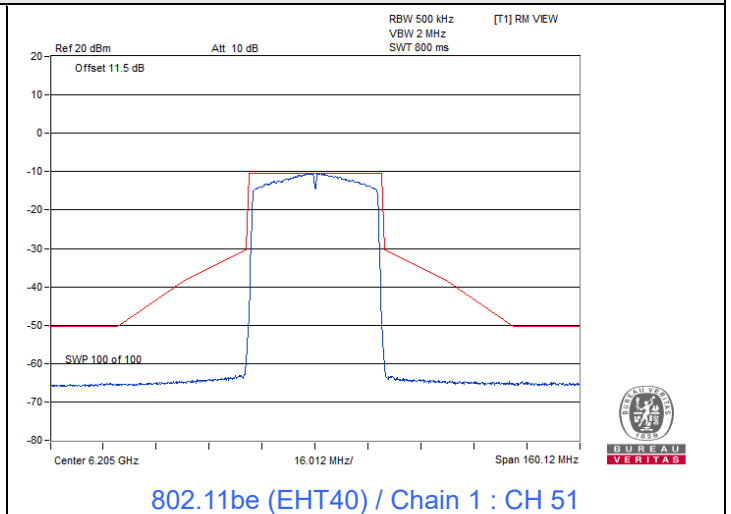
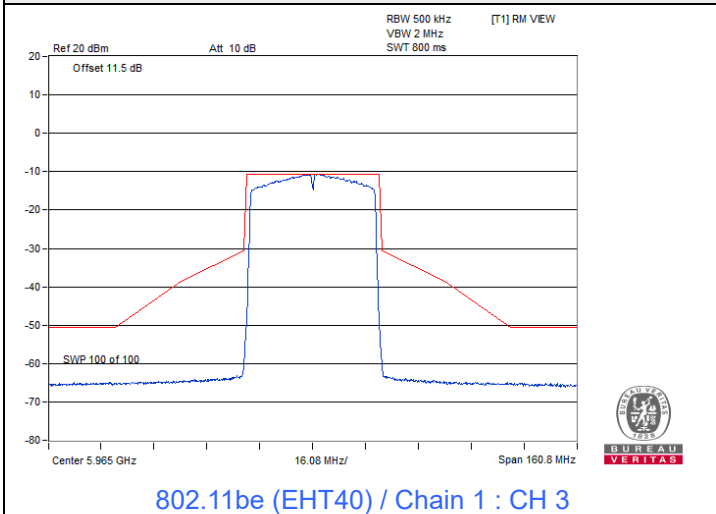
Spectrum Plot



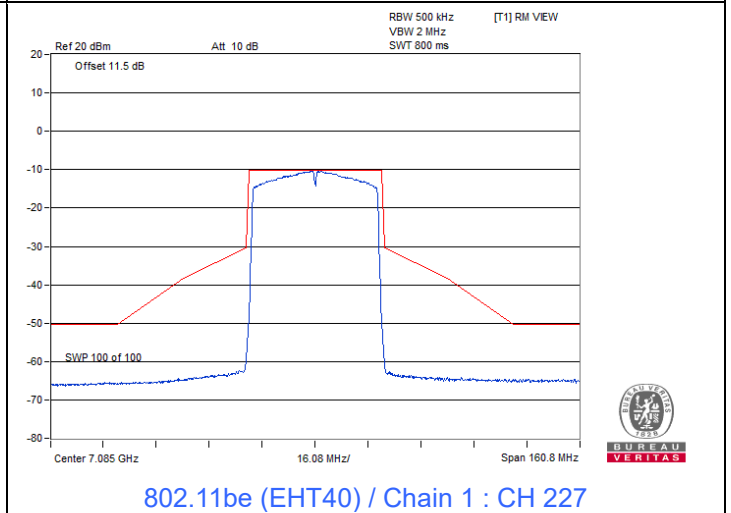
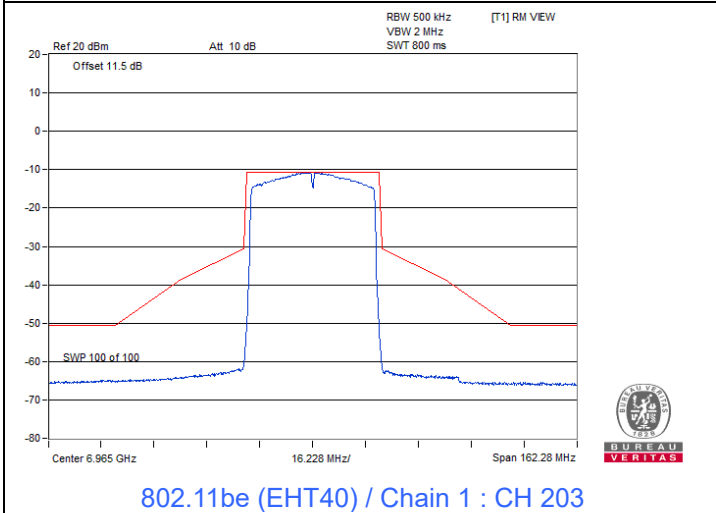
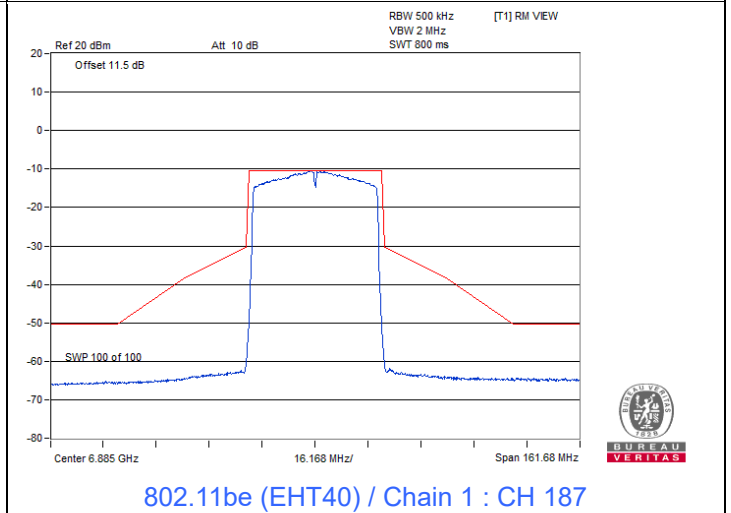
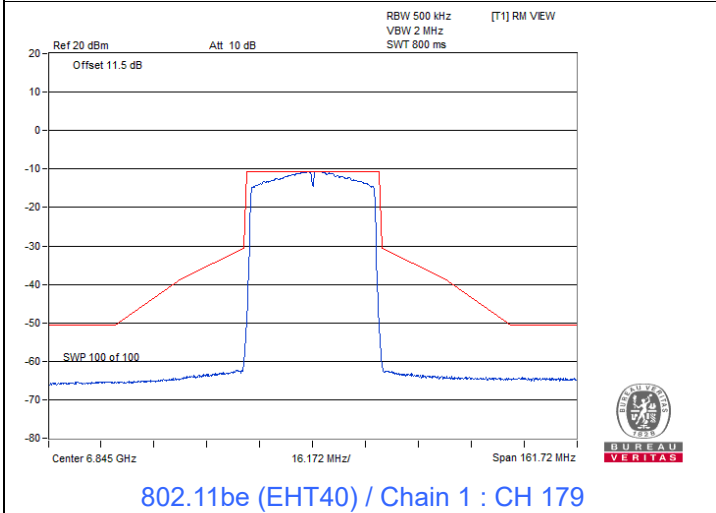
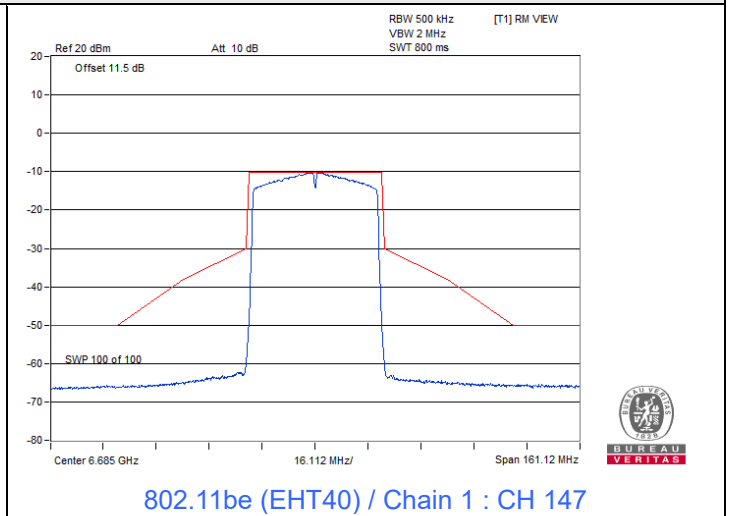
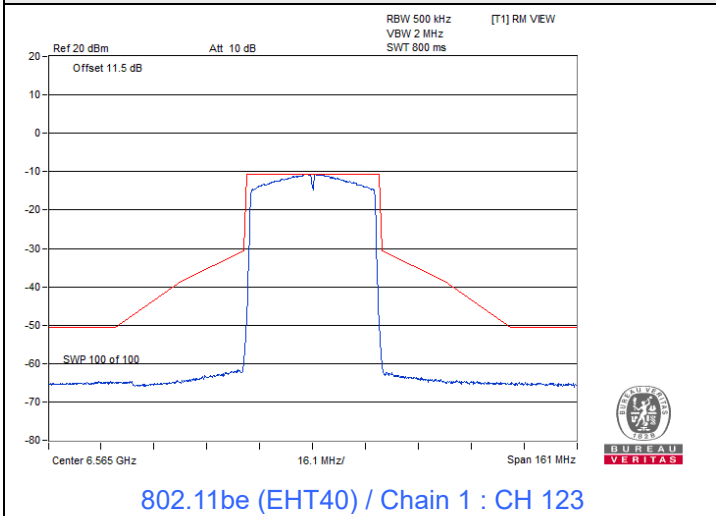
Spectrum Plot



Spectrum Plot

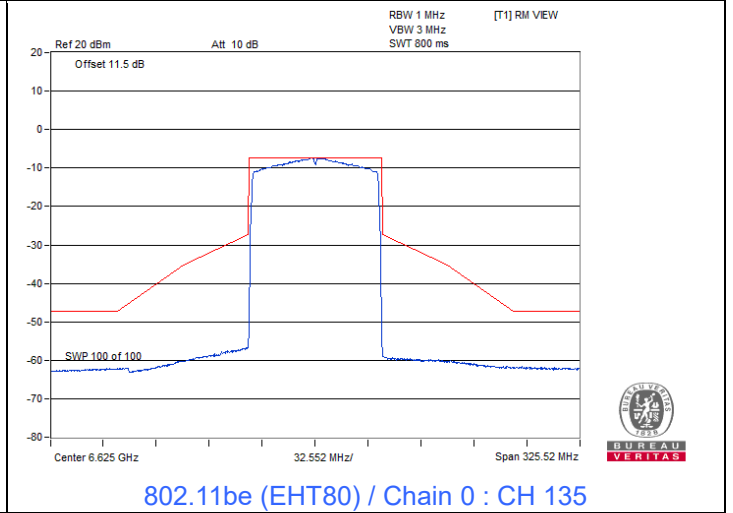
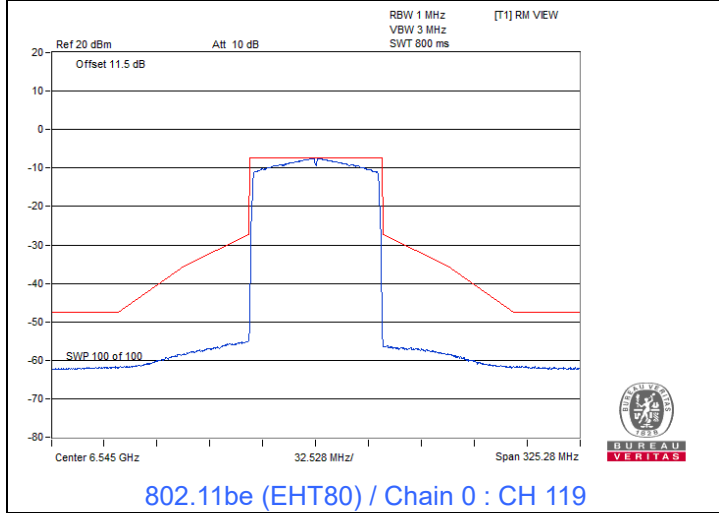
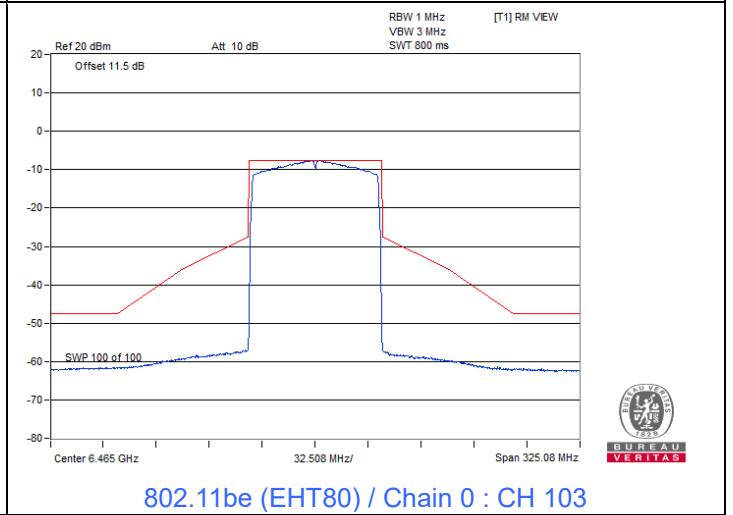
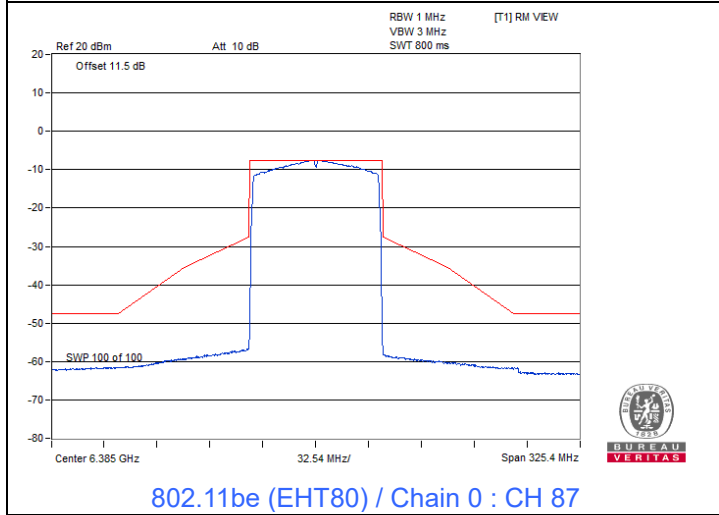
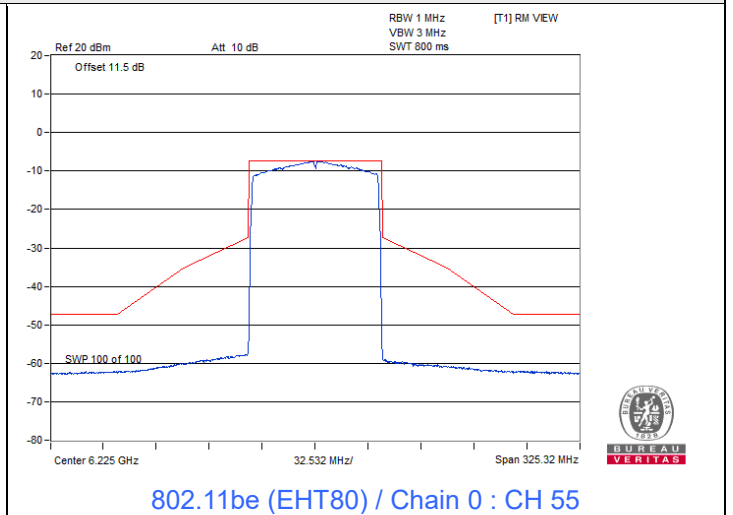
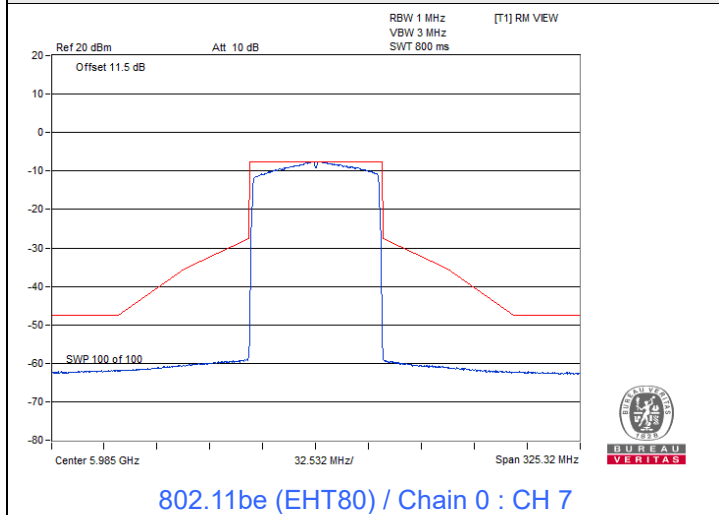


Spectrum Plot

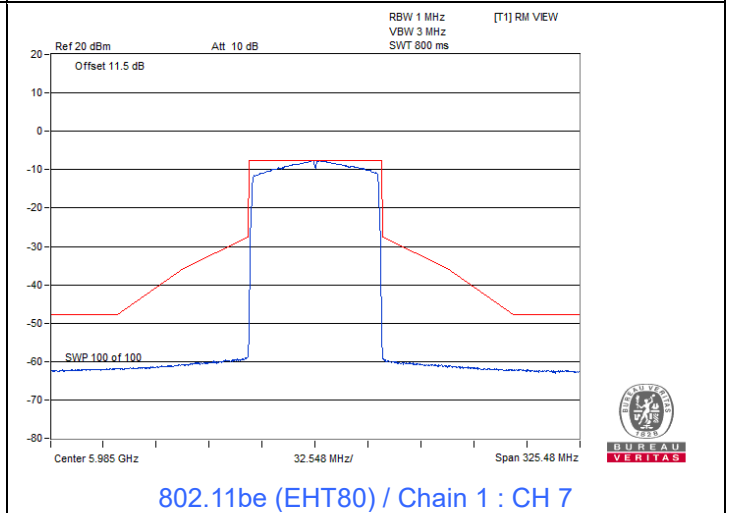
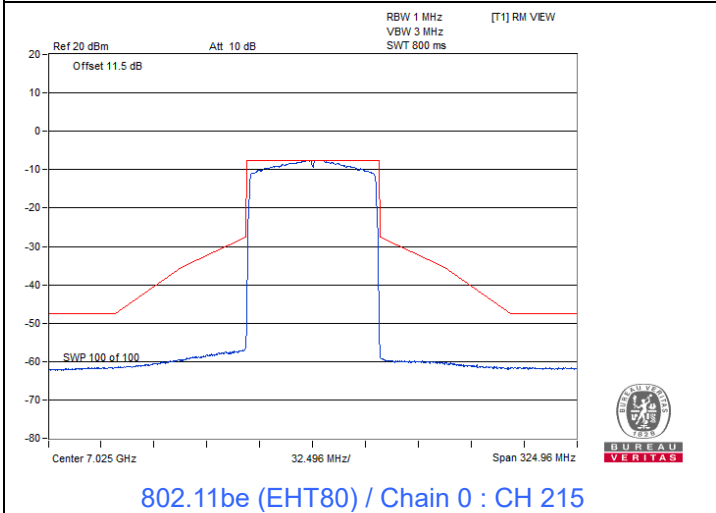
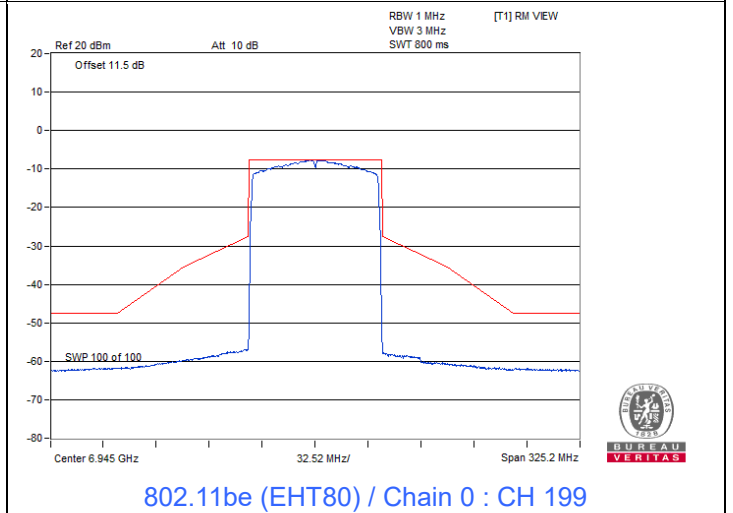
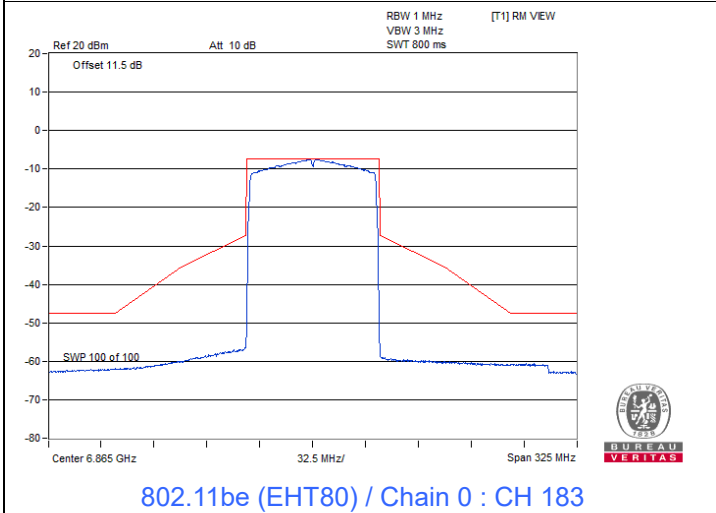
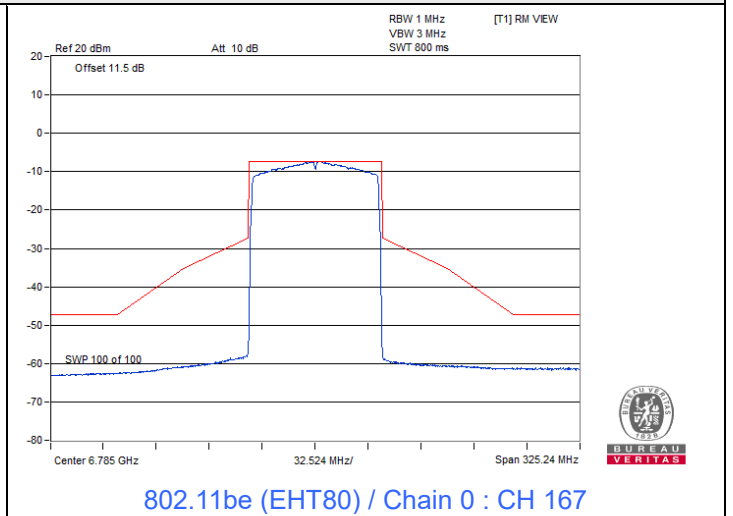
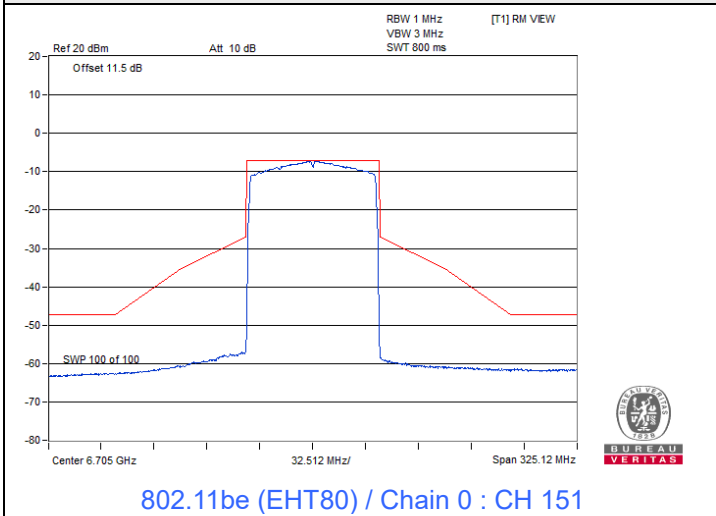


802.11be (EHT80)

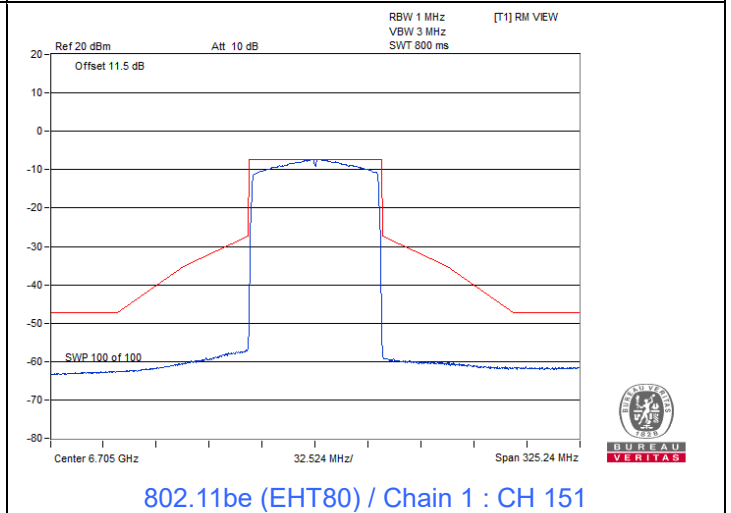
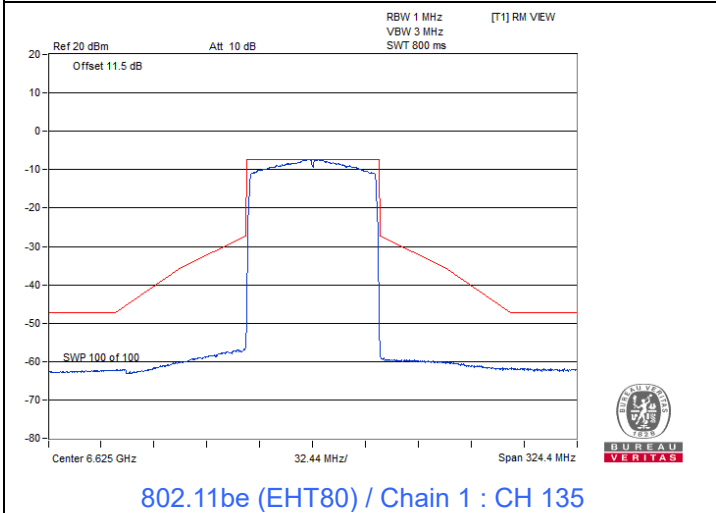
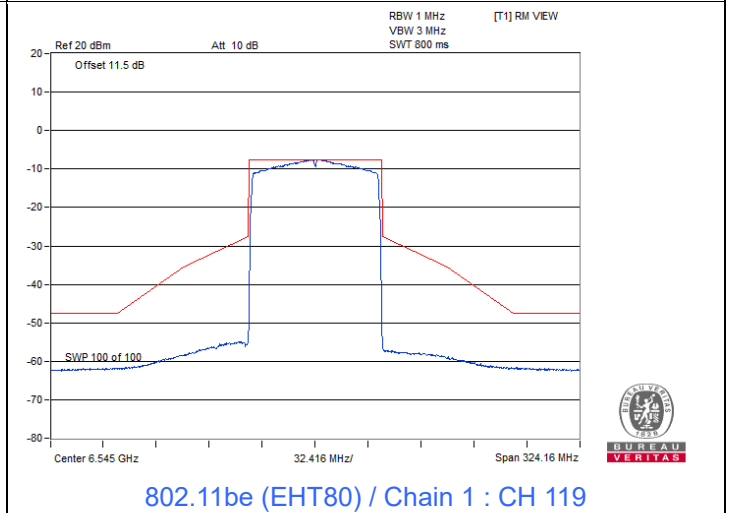
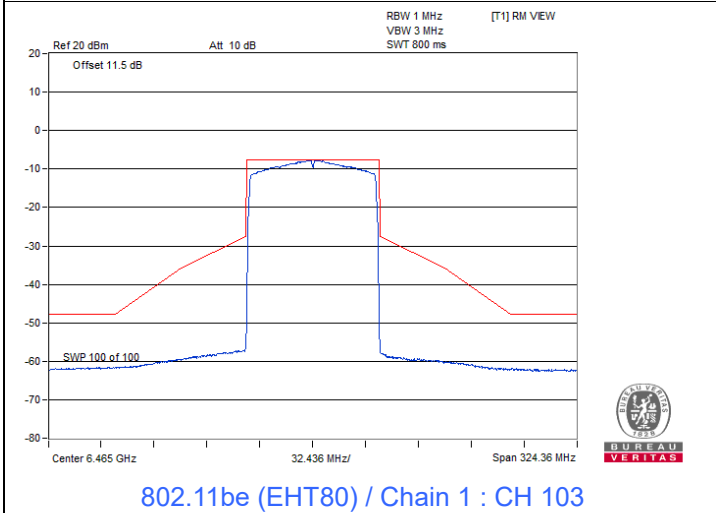
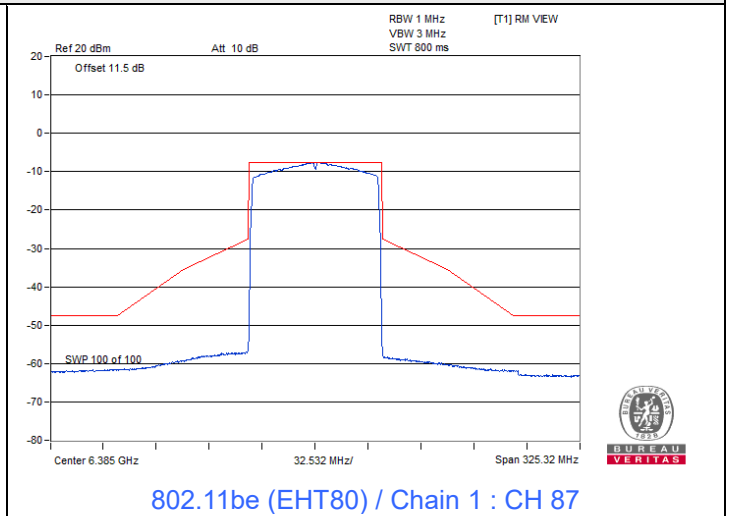
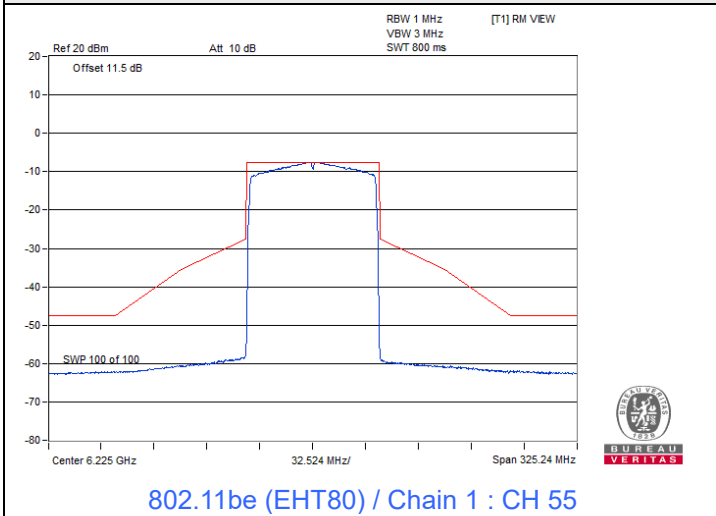
Spectrum Plot



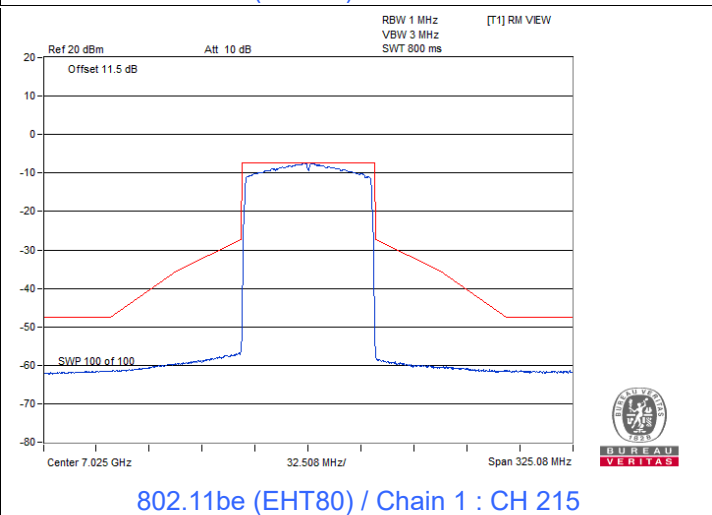
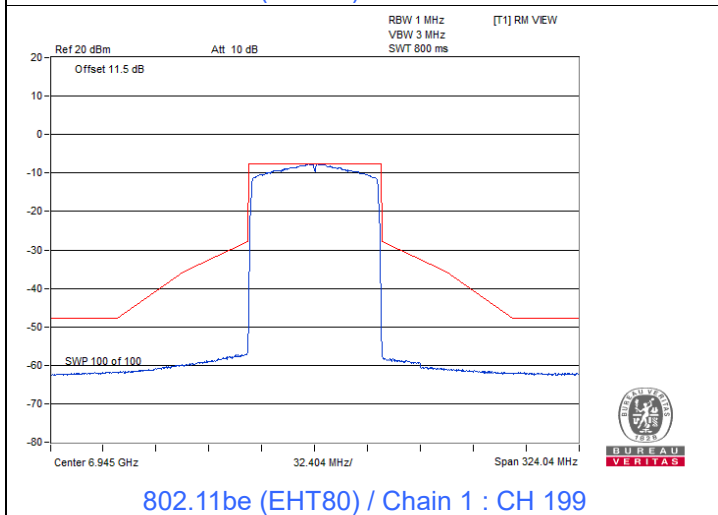
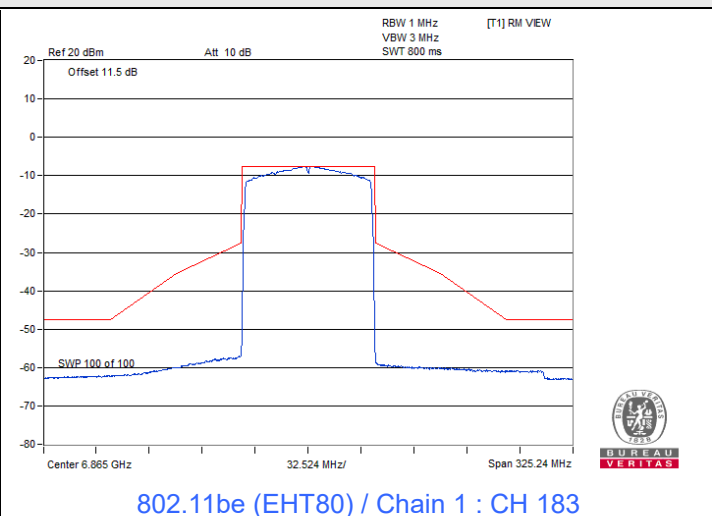
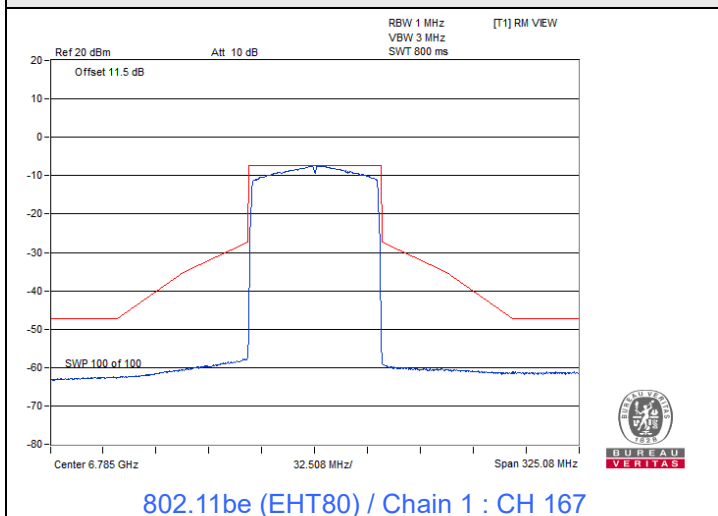
Spectrum Plot



Spectrum Plot



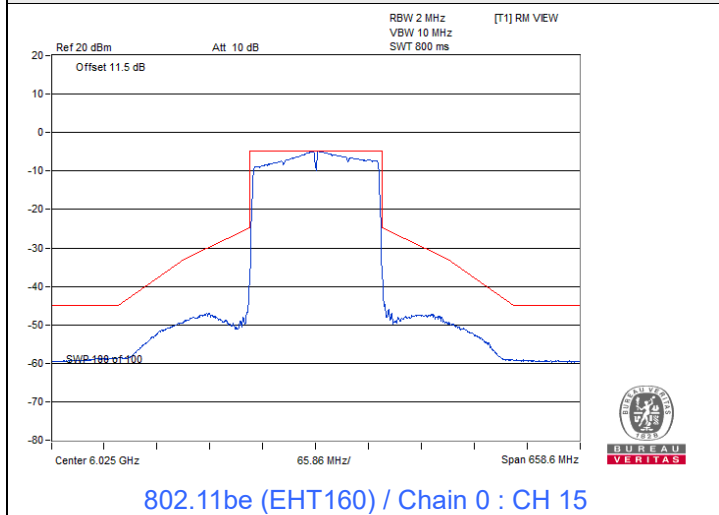
Spectrum Plot



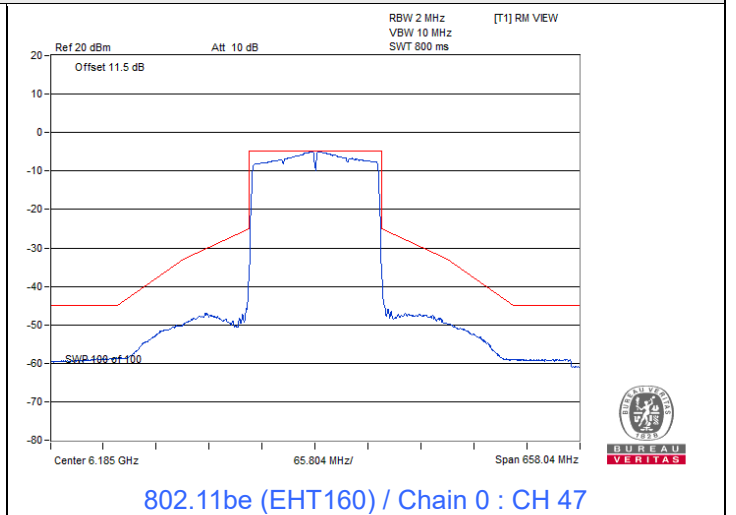


802.11be (EHT160)

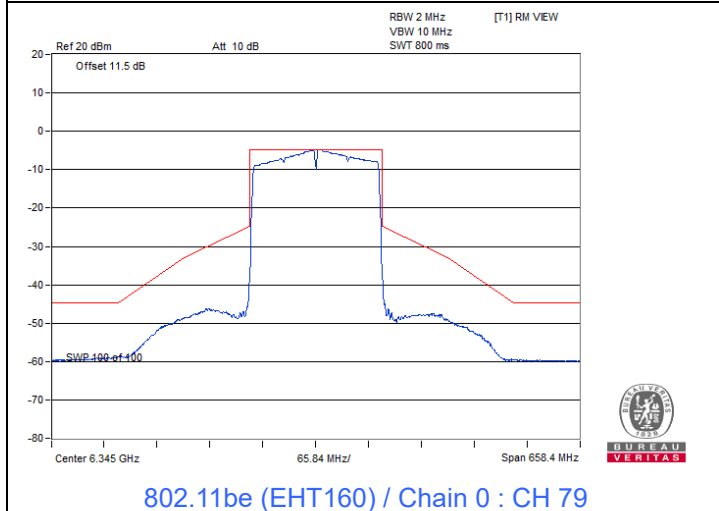
Spectrum Plot



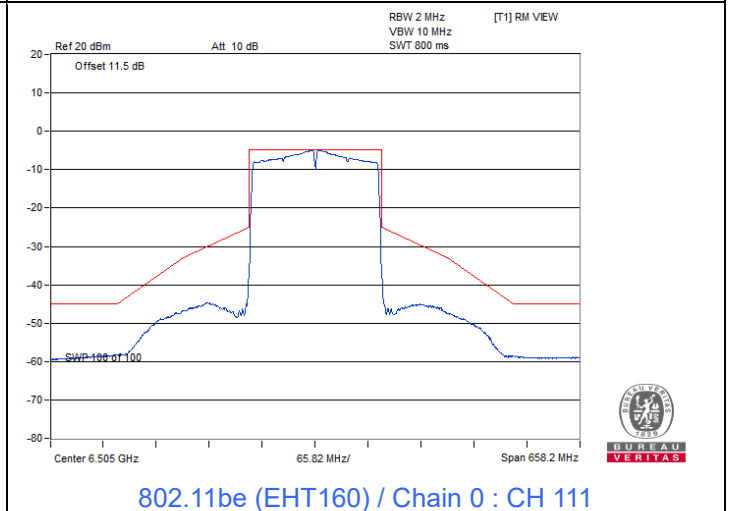
802.11be (EHT160) / Chain 0 : CH 15



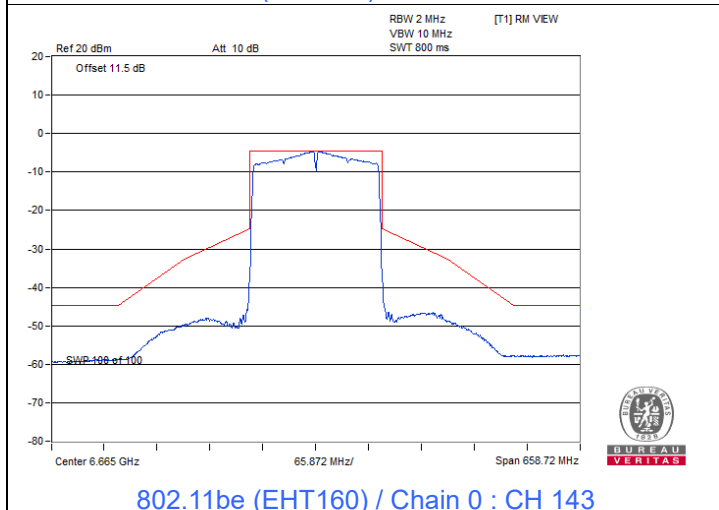
802.11be (EHT160) / Chain 0 : CH 47



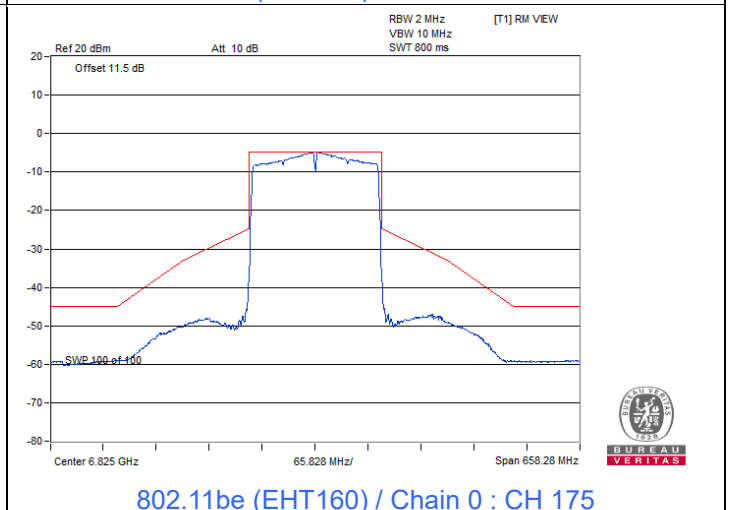
802.11be (EHT160) / Chain 0 : CH 79



802.11be (EHT160) / Chain 0 : CH 111

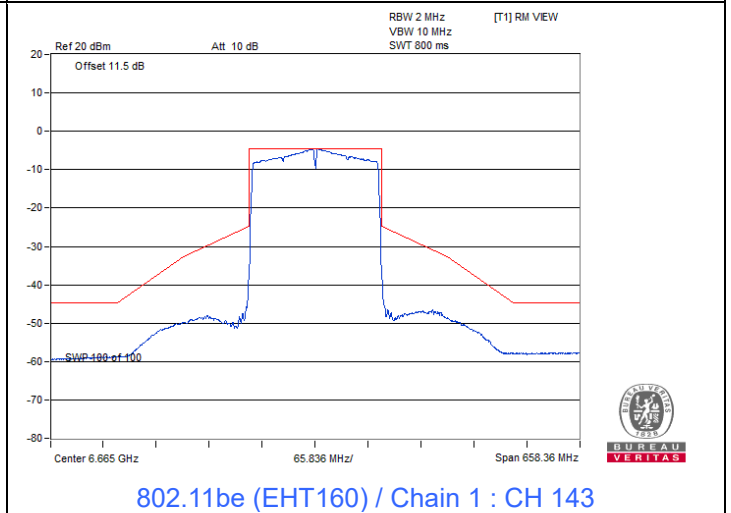
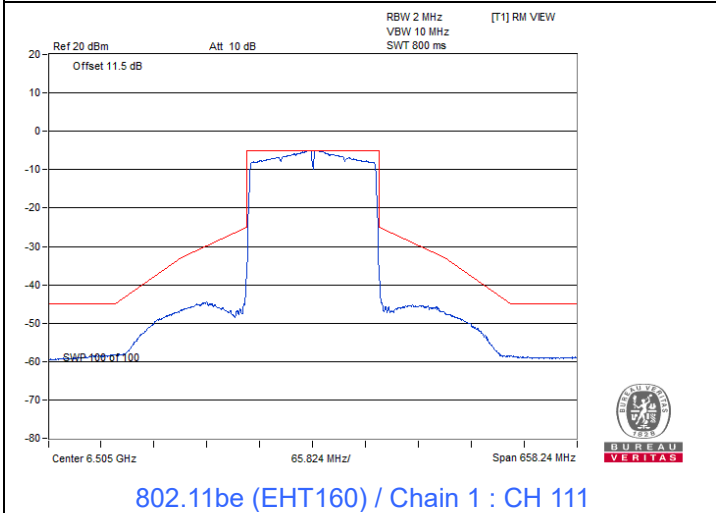
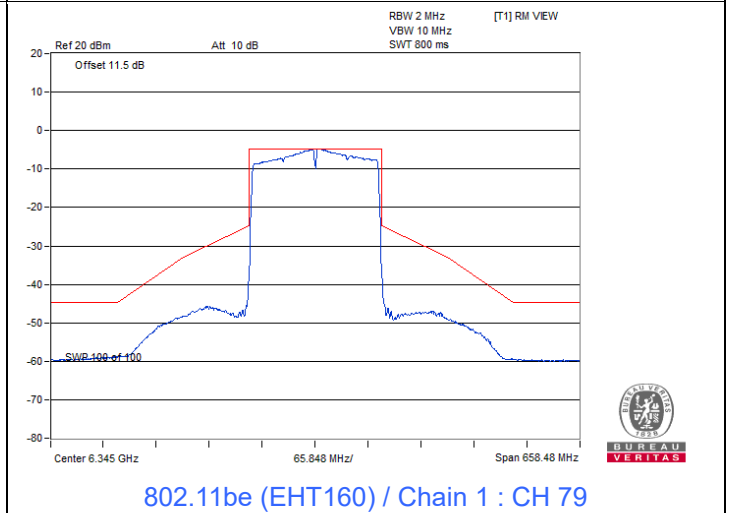
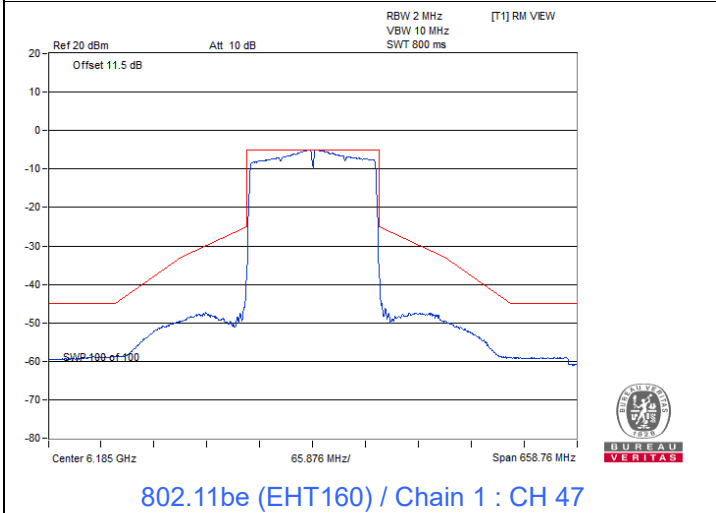
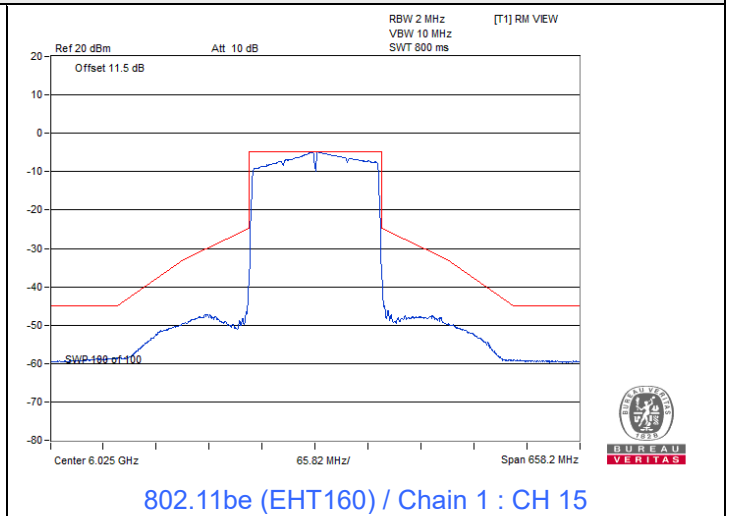
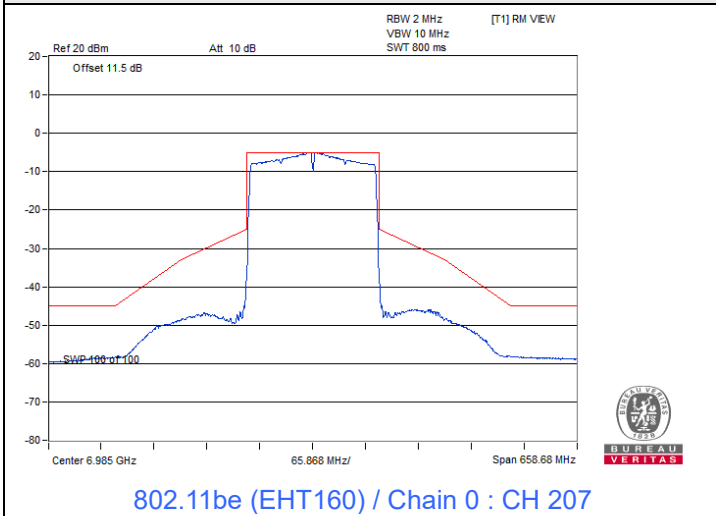


802.11be (EHT160) / Chain 0 : CH 143

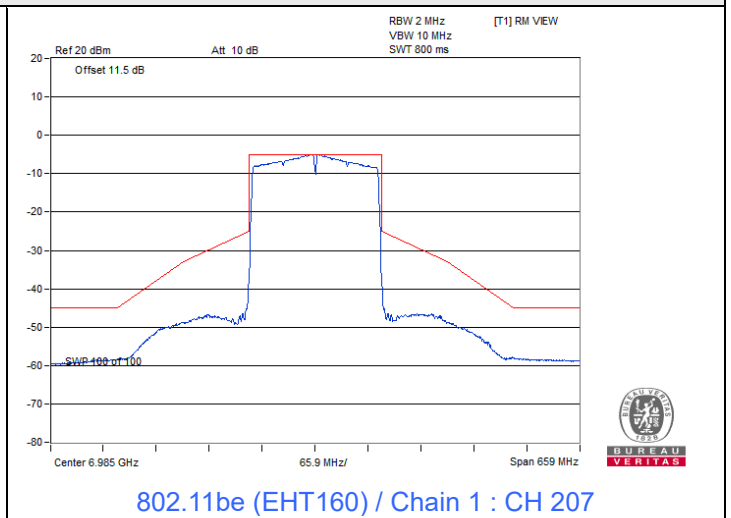
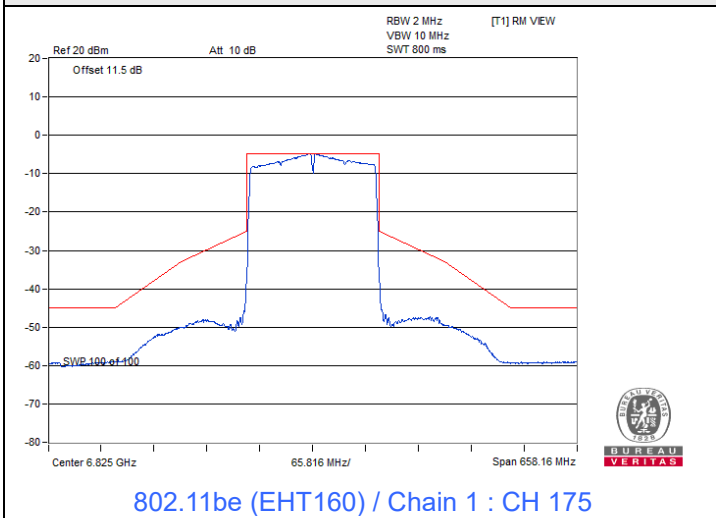


802.11be (EHT160) / Chain 0 : CH 175

Spectrum Plot



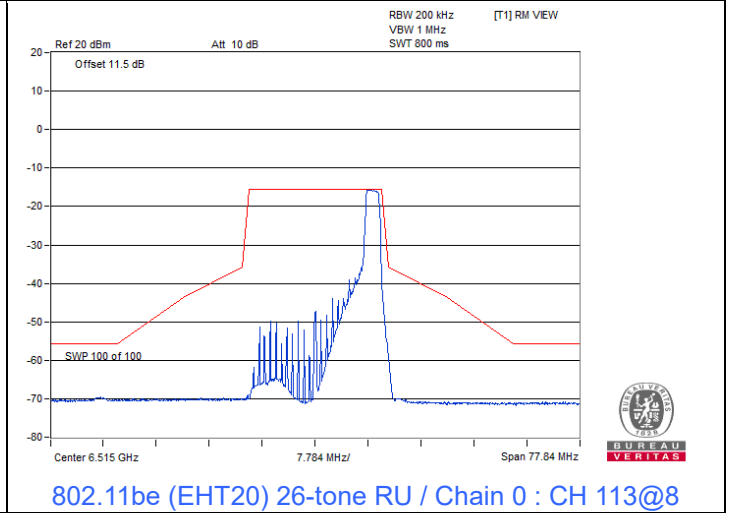
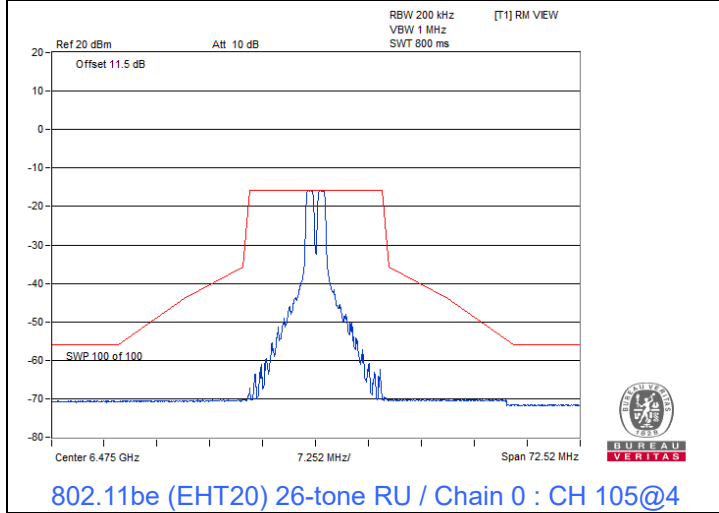
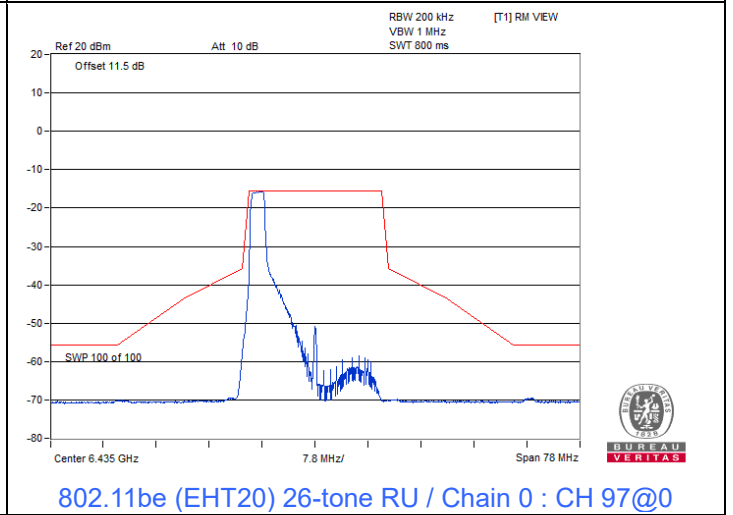
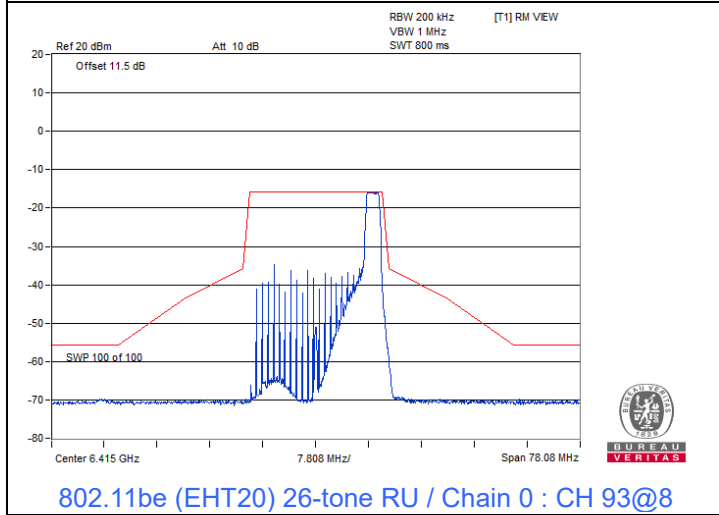
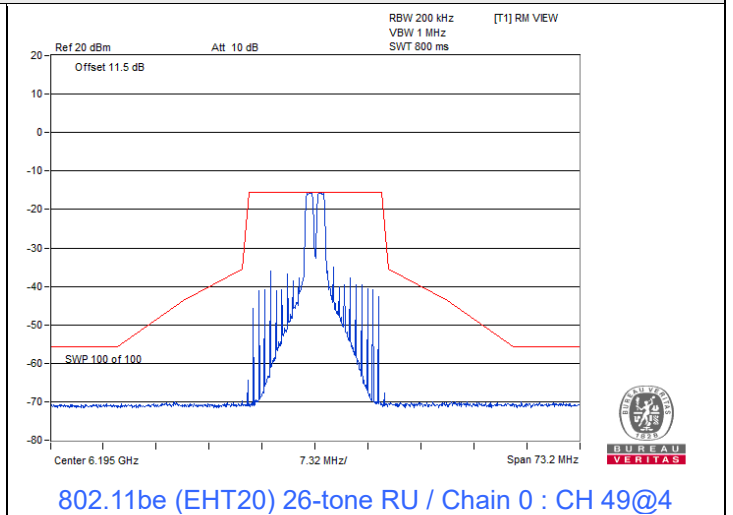
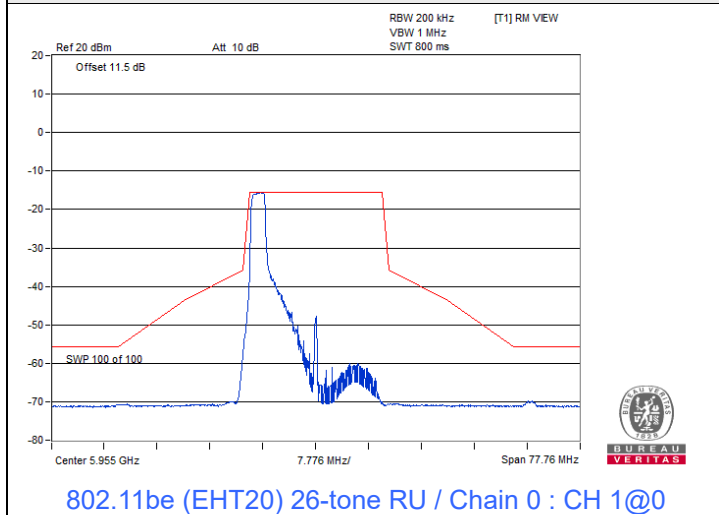
Spectrum Plot



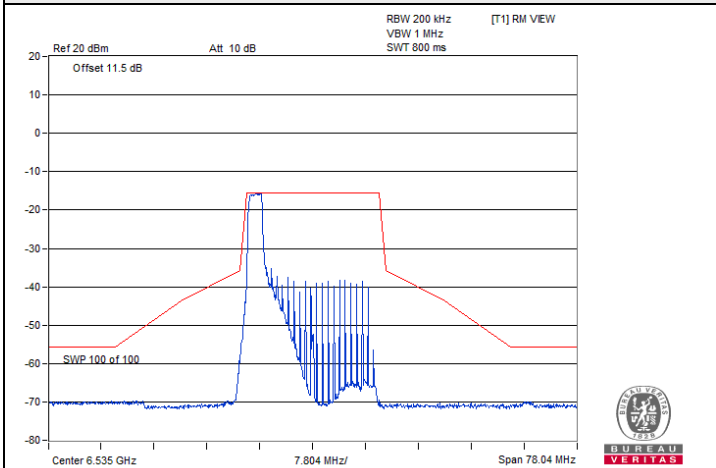


802.11be (EHT20) 26-tone RU

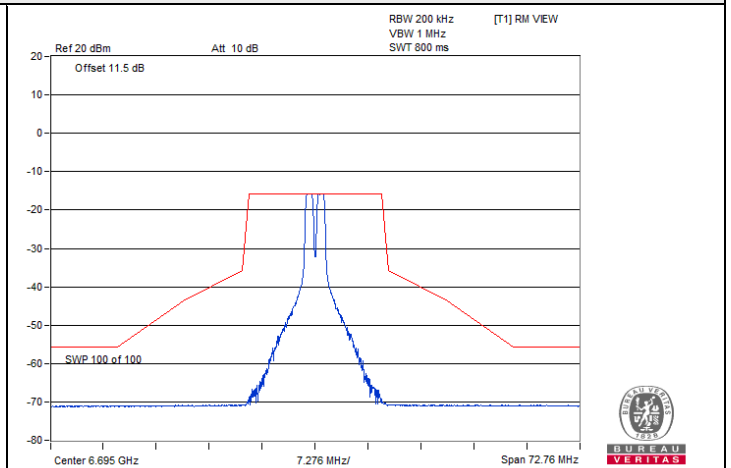
Spectrum Plot



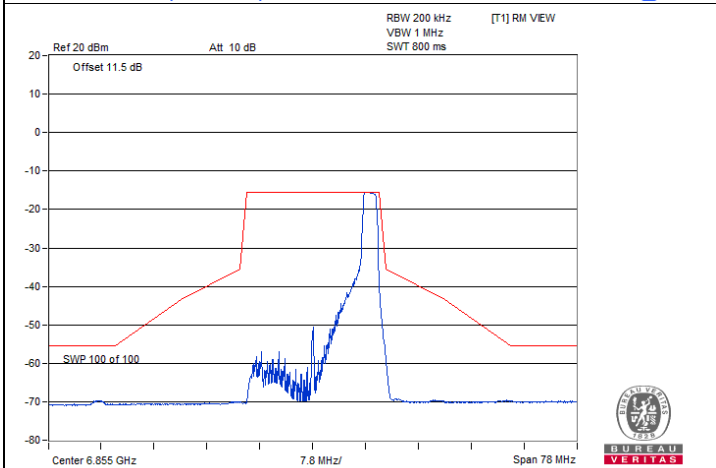
Spectrum Plot



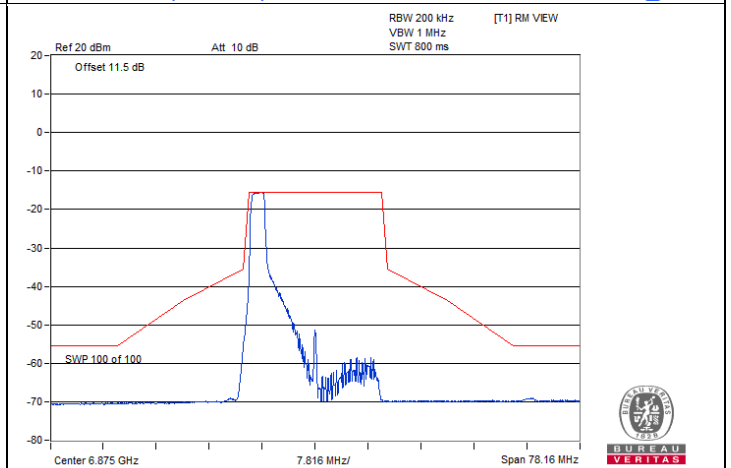
802.11be (EHT20) 26-tone RU / Chain 0 : CH 117@0



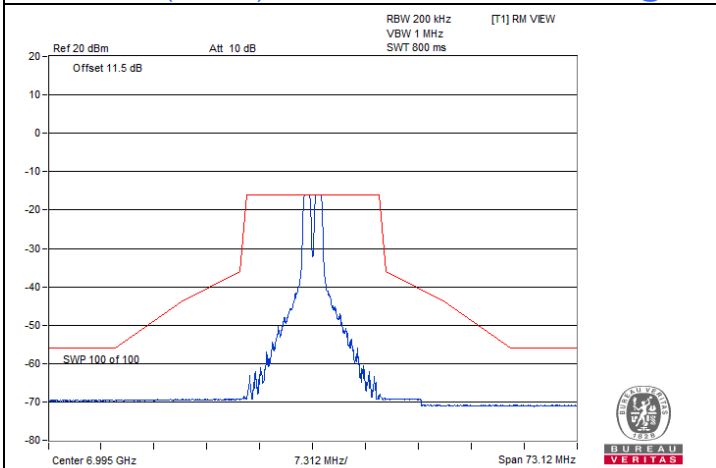
802.11be (EHT20) 26-tone RU / Chain 0 : CH 149@4



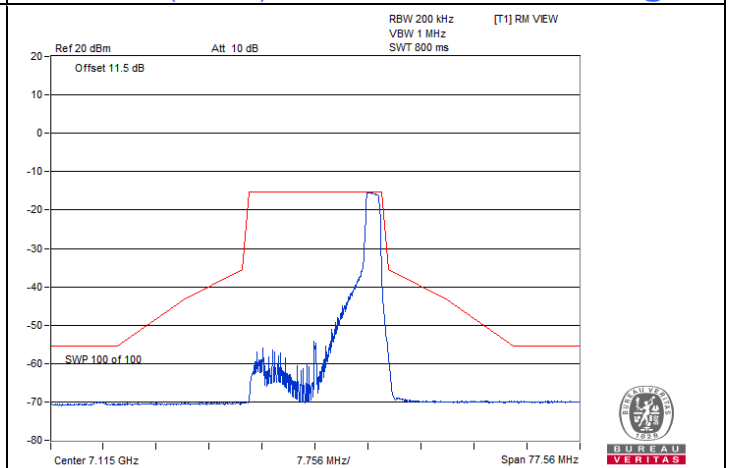
802.11be (EHT20) 26-tone RU / Chain 0 : CH 181@8



802.11be (EHT20) 26-tone RU / Chain 0 : CH 185@0

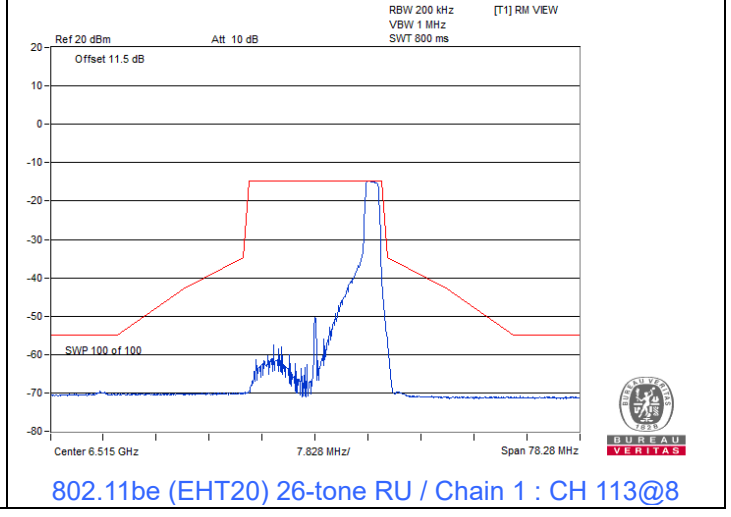
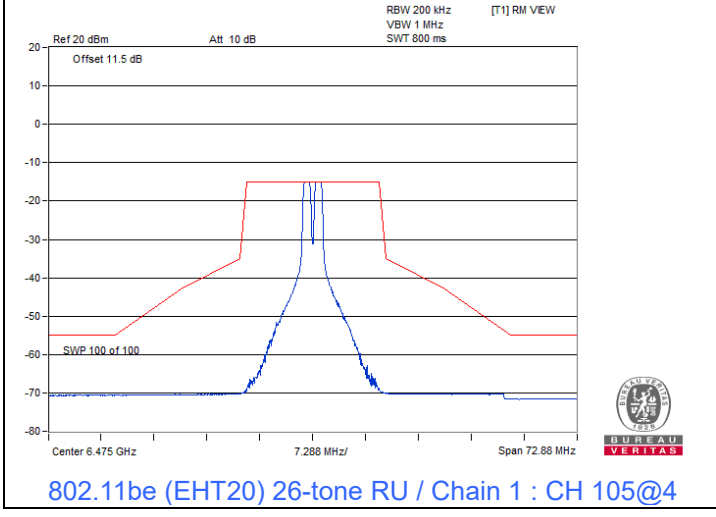
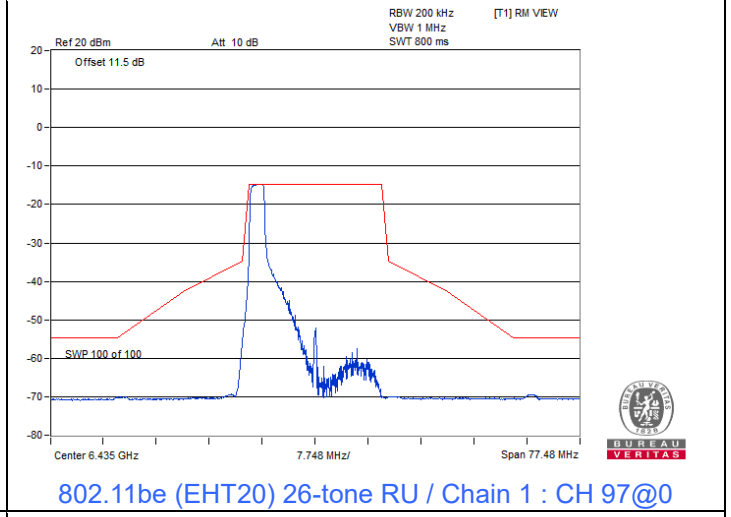
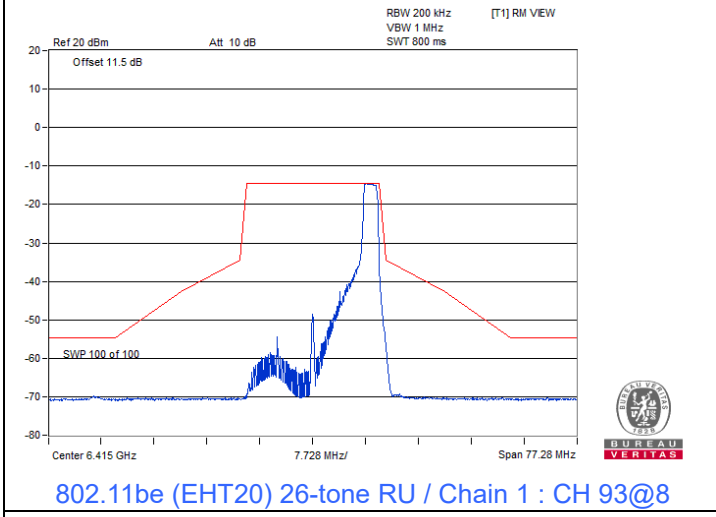
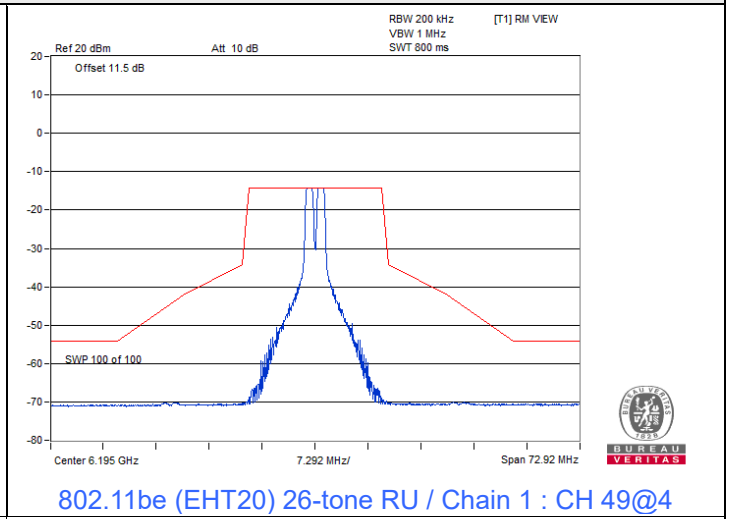
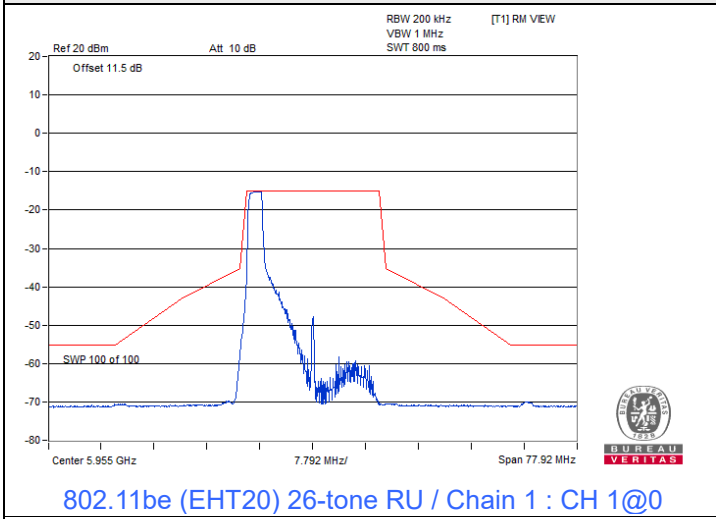


802.11be (EHT20) 26-tone RU / Chain 0 : CH 209@4

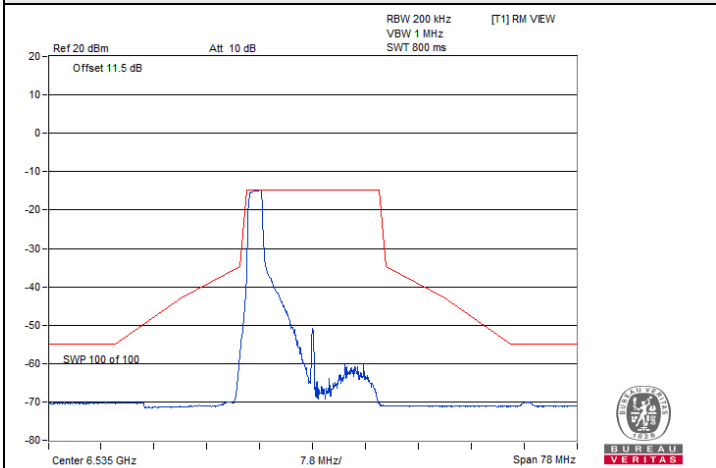


802.11be (EHT20) 26-tone RU / Chain 0 : CH 233@8

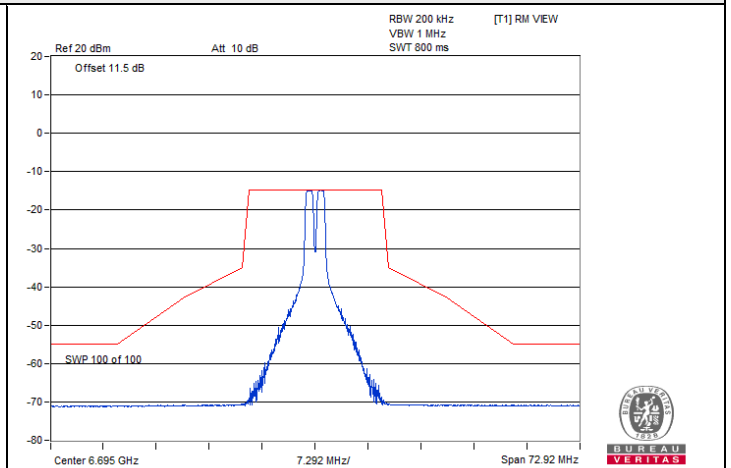
Spectrum Plot



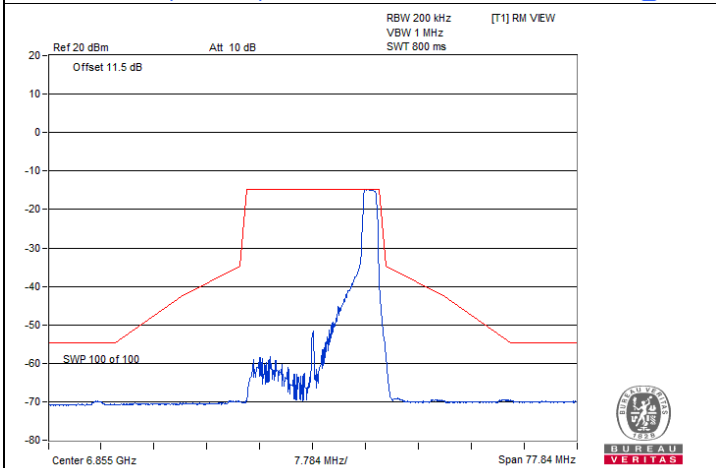
Spectrum Plot



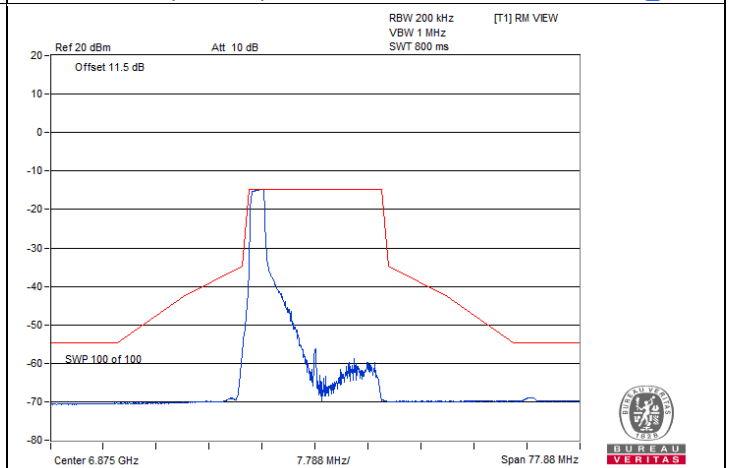
802.11be (EHT20) 26-tone RU / Chain 1 : CH 117@0



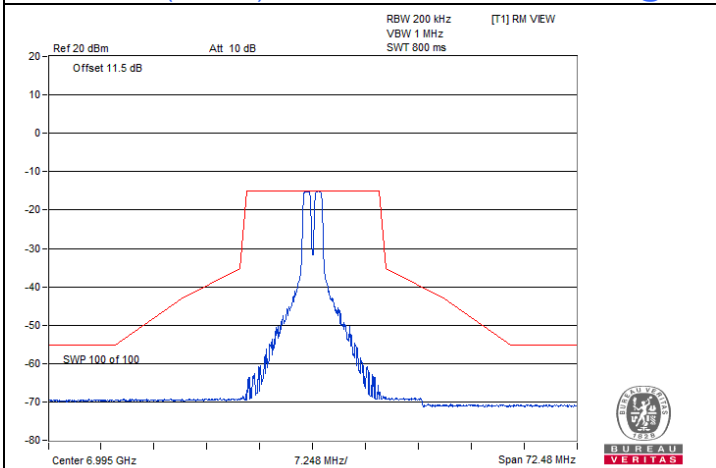
802.11be (EHT20) 26-tone RU / Chain 1 : CH 149@4



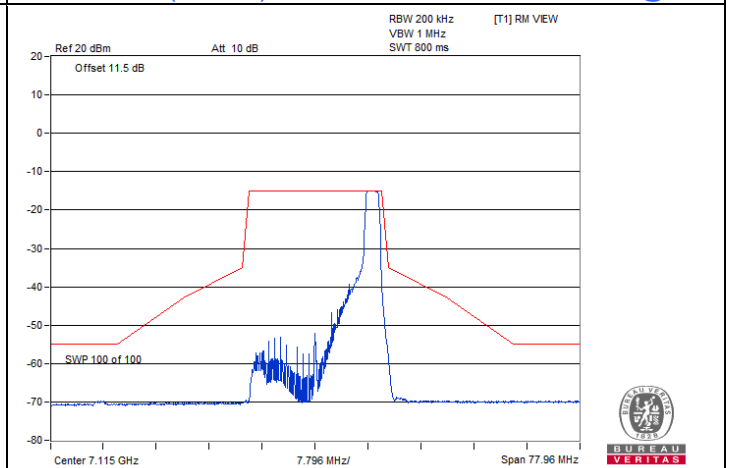
802.11be (EHT20) 26-tone RU / Chain 1 : CH 181@8



802.11be (EHT20) 26-tone RU / Chain 1 : CH 185@0



802.11be (EHT20) 26-tone RU / Chain 1 : CH 209@4

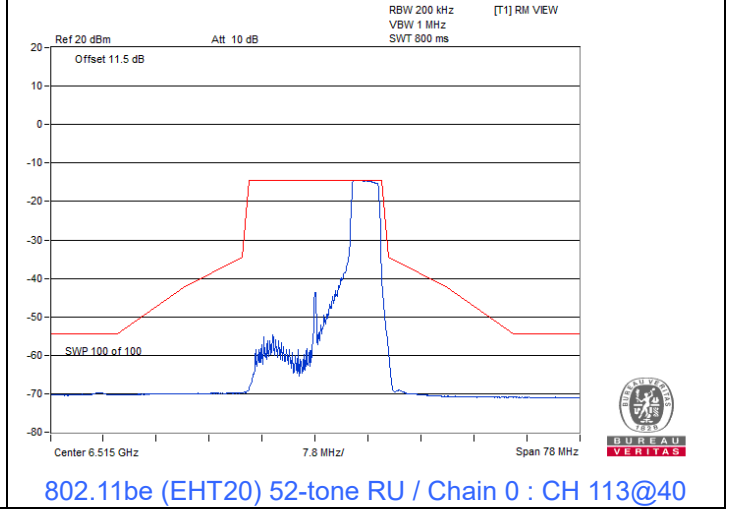
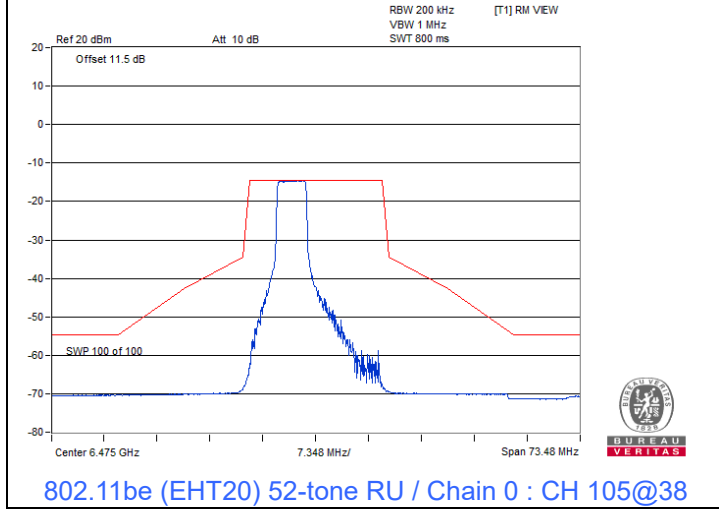
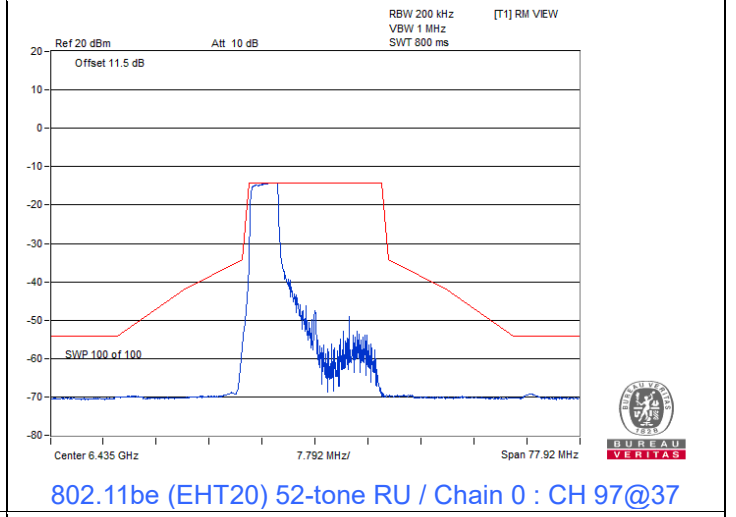
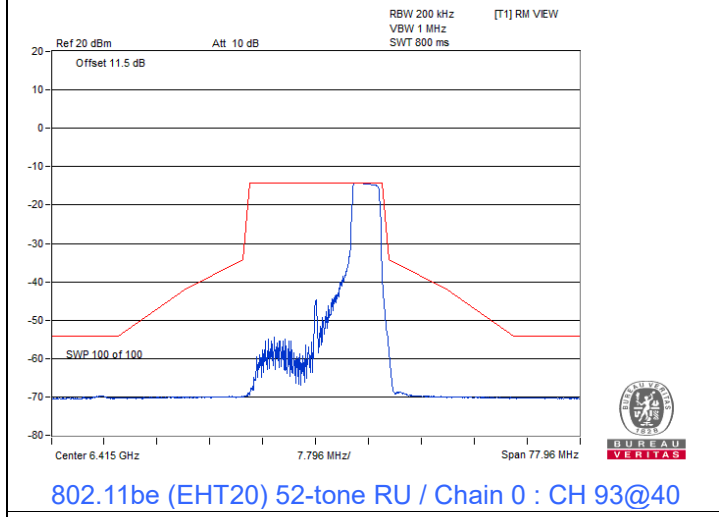
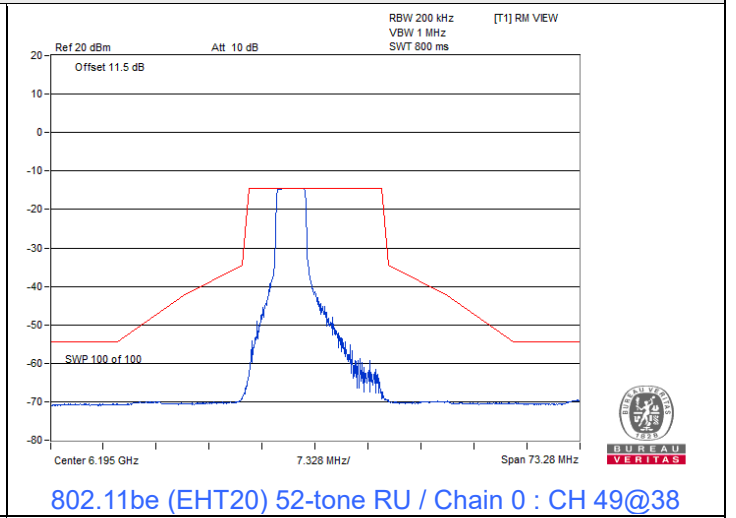
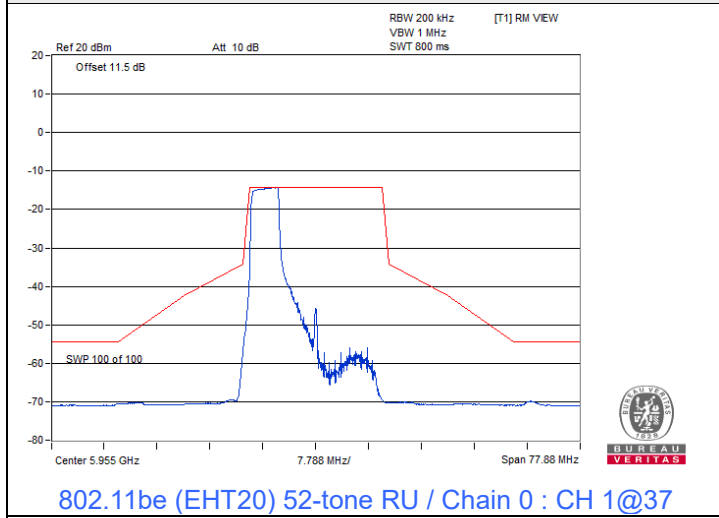


802.11be (EHT20) 26-tone RU / Chain 1 : CH 233@8

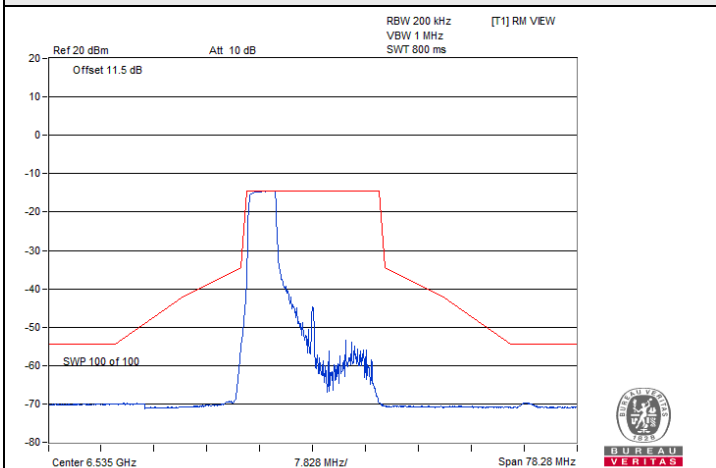


802.11be (EHT20) 52-tone RU

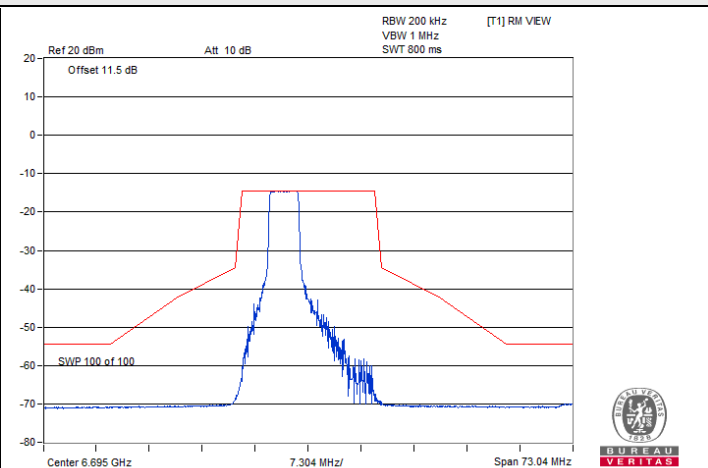
Spectrum Plot



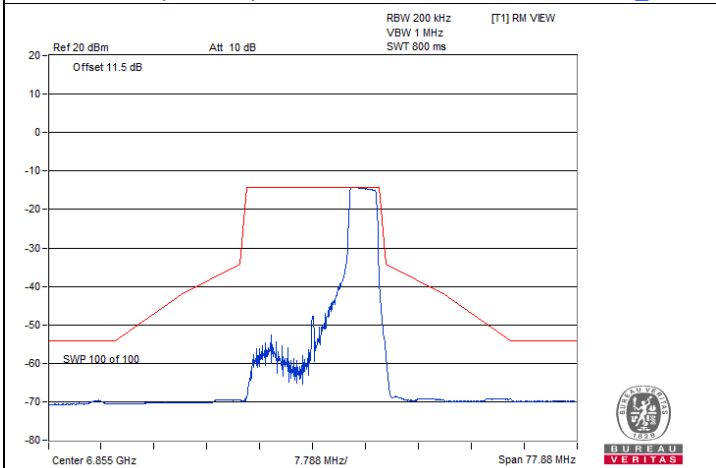
Spectrum Plot



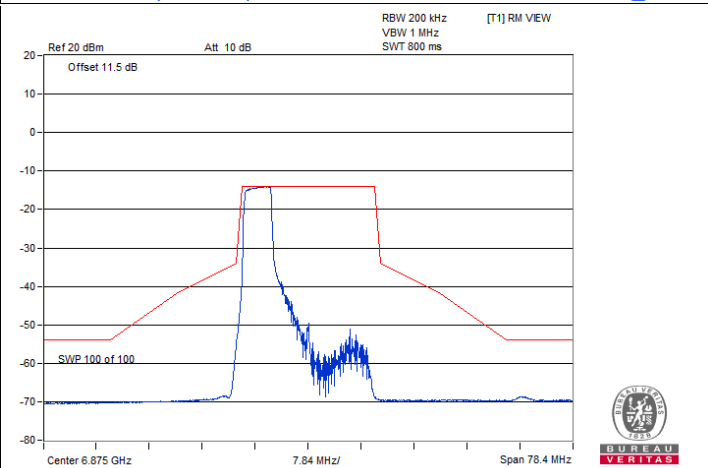
802.11be (EHT20) 52-tone RU / Chain 0 : CH 117@37



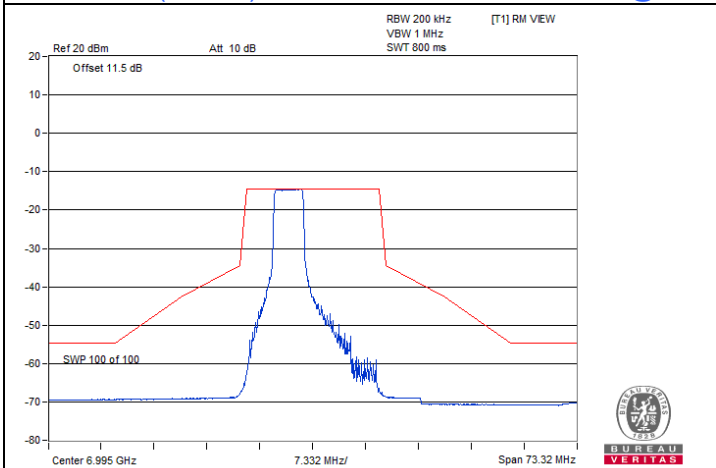
802.11be (EHT20) 52-tone RU / Chain 0 : CH 149@38



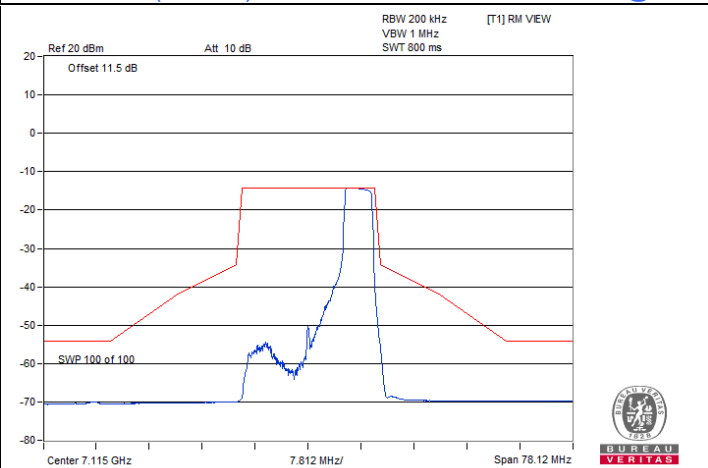
802.11be (EHT20) 52-tone RU / Chain 0 : CH 181@40



802.11be (EHT20) 52-tone RU / Chain 0 : CH 185@37

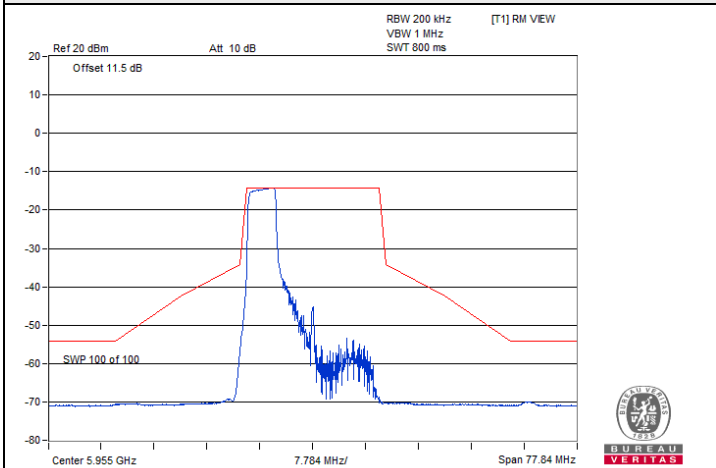


802.11be (EHT20) 52-tone RU / Chain 0 : CH 209@38

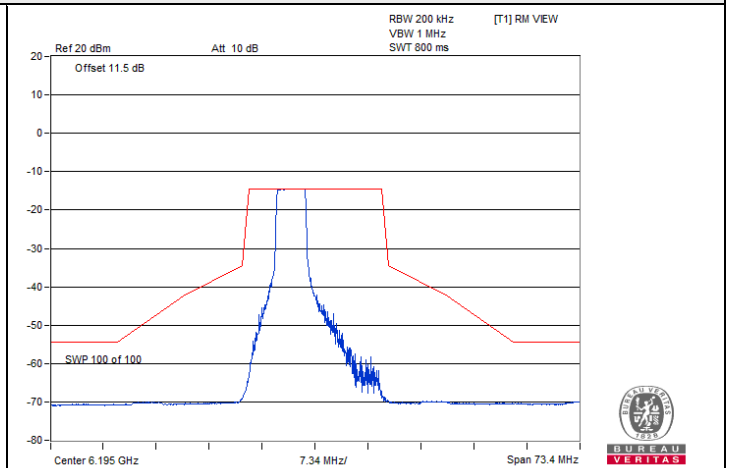


802.11be (EHT20) 52-tone RU / Chain 0 : CH 233@40

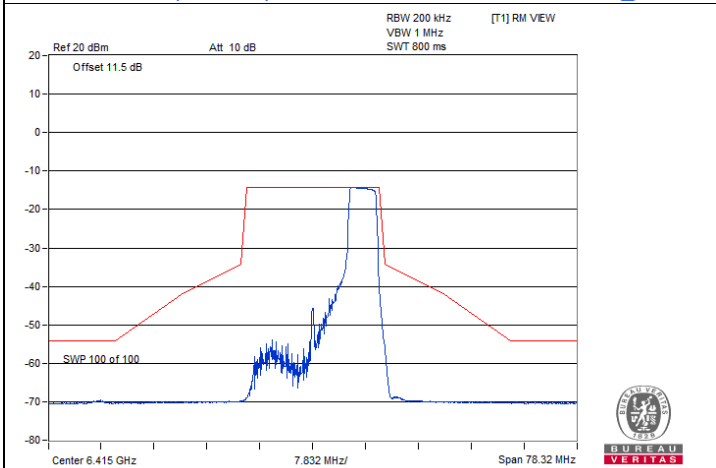
Spectrum Plot



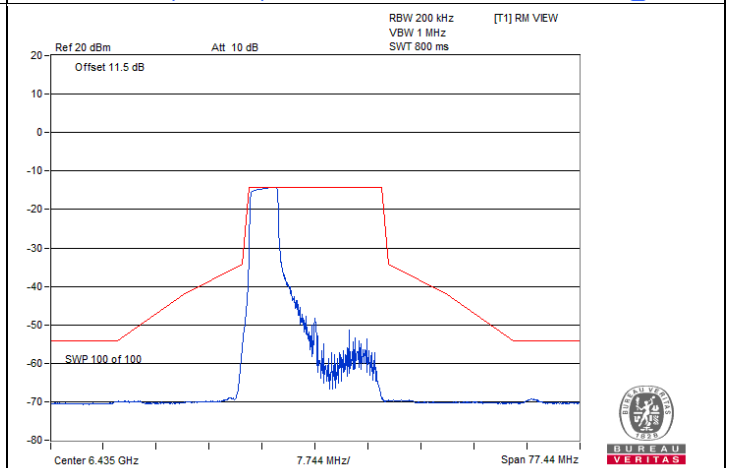
802.11be (EHT20) 52-tone RU / Chain 1 : CH 1@37



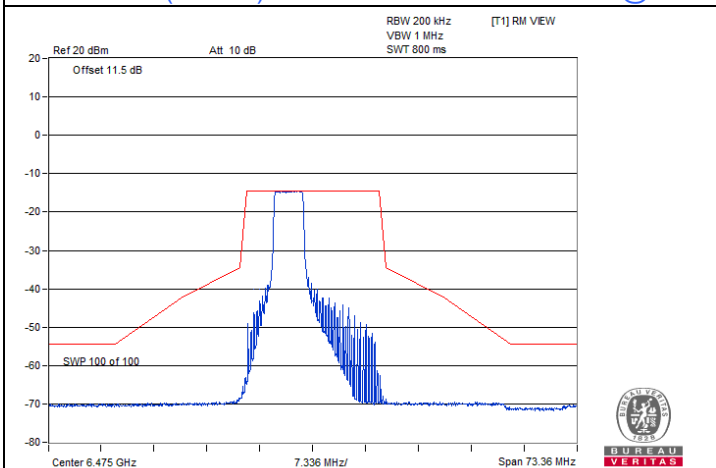
802.11be (EHT20) 52-tone RU / Chain 1 : CH 49@38



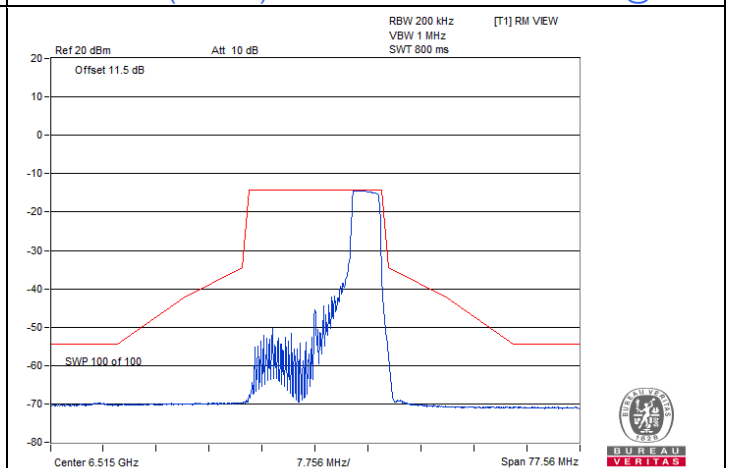
802.11be (EHT20) 52-tone RU / Chain 1 : CH 93@40



802.11be (EHT20) 52-tone RU / Chain 1 : CH 97@37

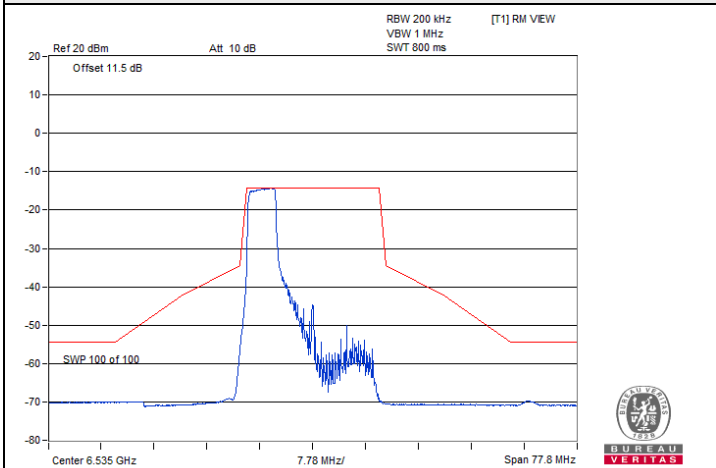


802.11be (EHT20) 52-tone RU / Chain 1 : CH 105@38

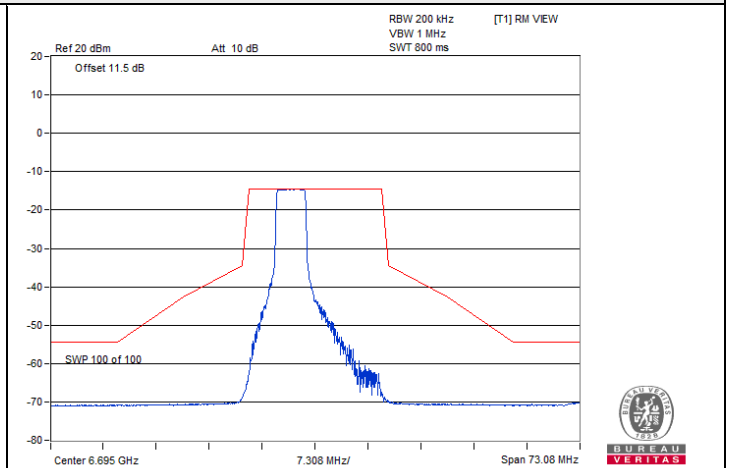


802.11be (EHT20) 52-tone RU / Chain 1 : CH 113@40

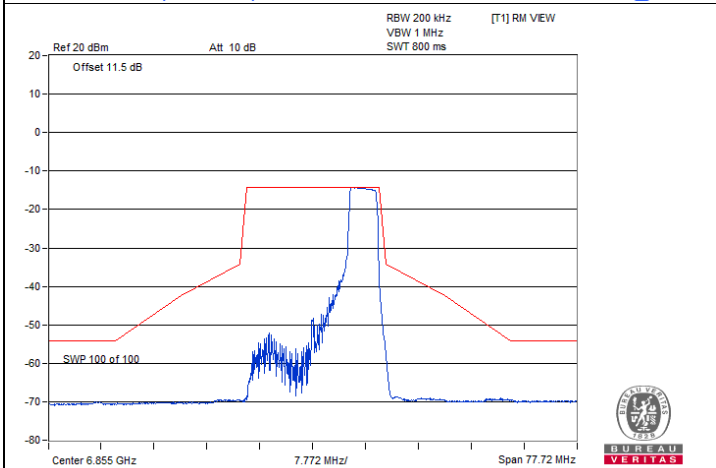
Spectrum Plot



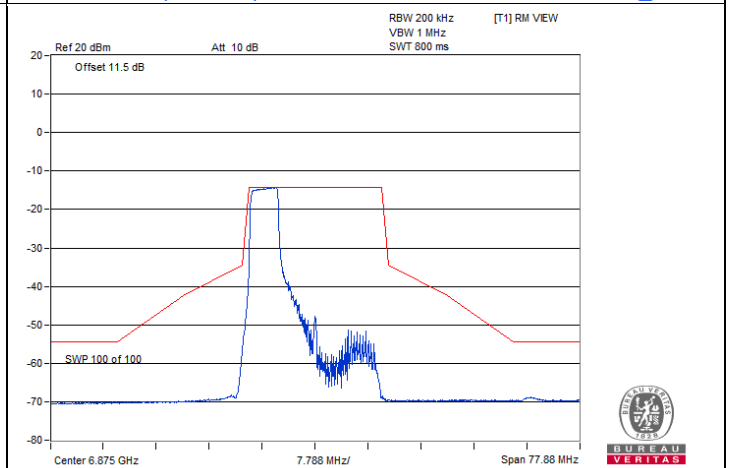
802.11be (EHT20) 52-tone RU / Chain 1 : CH 117@37



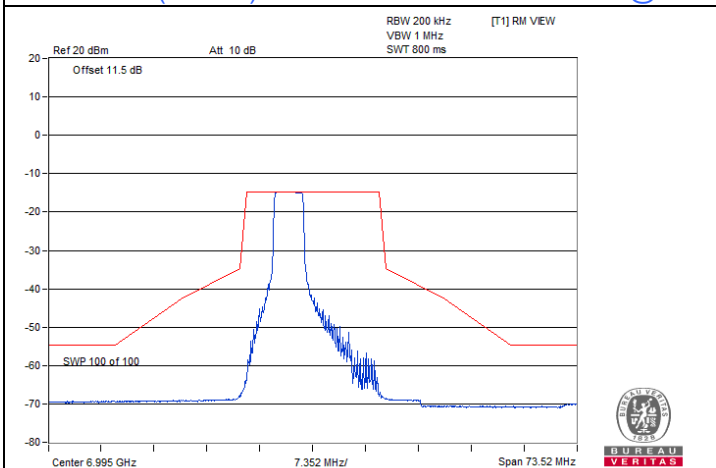
802.11be (EHT20) 52-tone RU / Chain 1 : CH 149@38



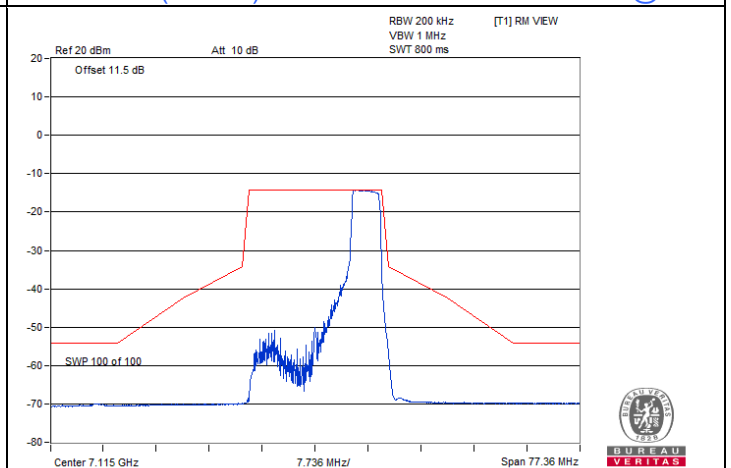
802.11be (EHT20) 52-tone RU / Chain 1 : CH 181@40



802.11be (EHT20) 52-tone RU / Chain 1 : CH 185@37



802.11be (EHT20) 52-tone RU / Chain 1 : CH 209@38

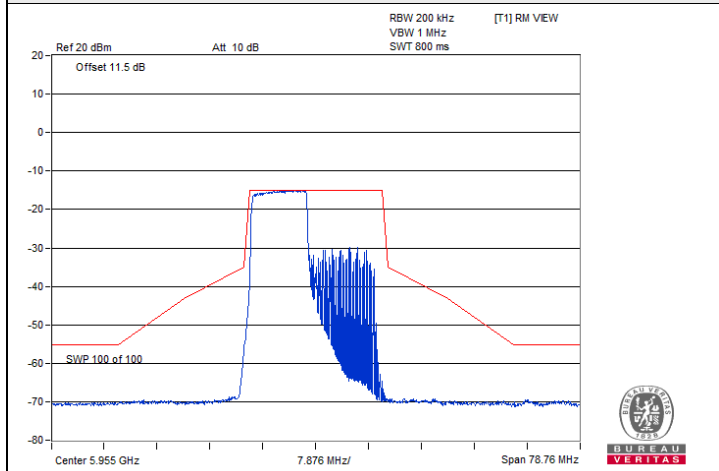


802.11be (EHT20) 52-tone RU / Chain 1 : CH 233@40

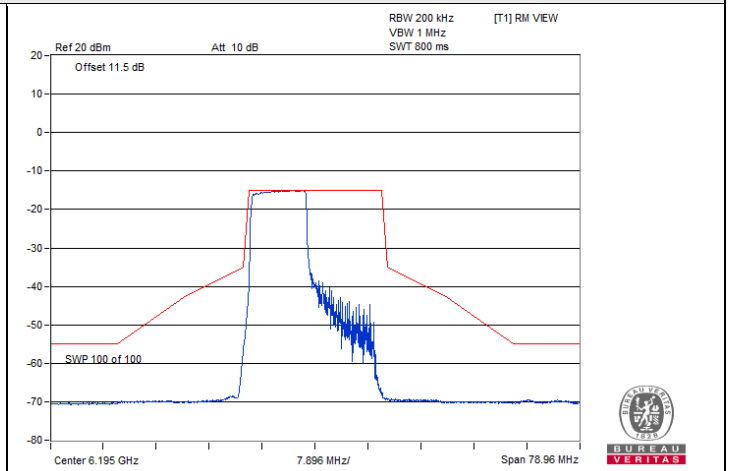


802.11be (EHT20) 106-tone RU

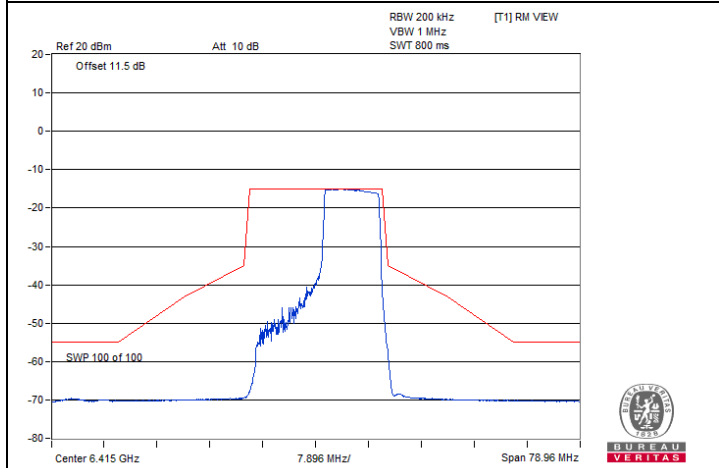
Spectrum Plot



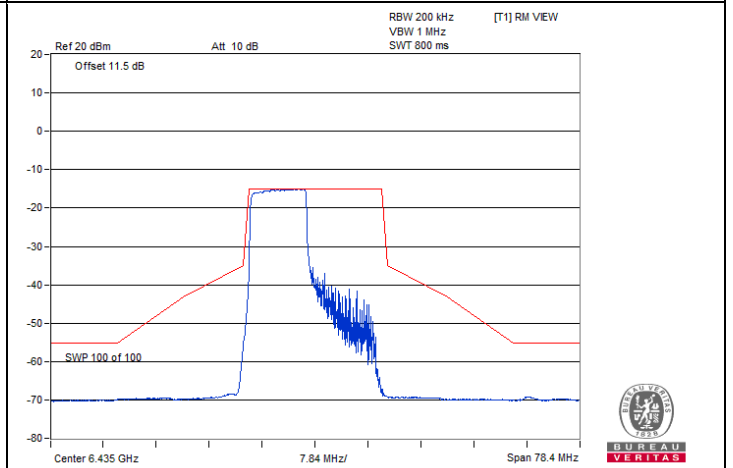
802.11be (EHT20) 106-tone RU / Chain 0 : CH 1@53



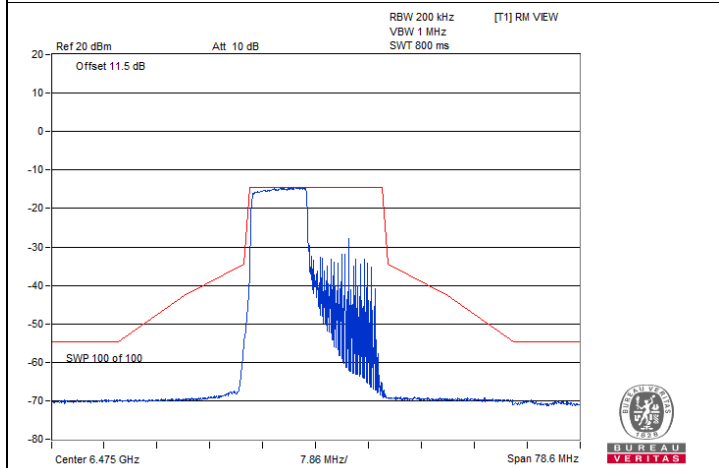
802.11be (EHT20) 106-tone RU / Chain 0 : CH 49@53



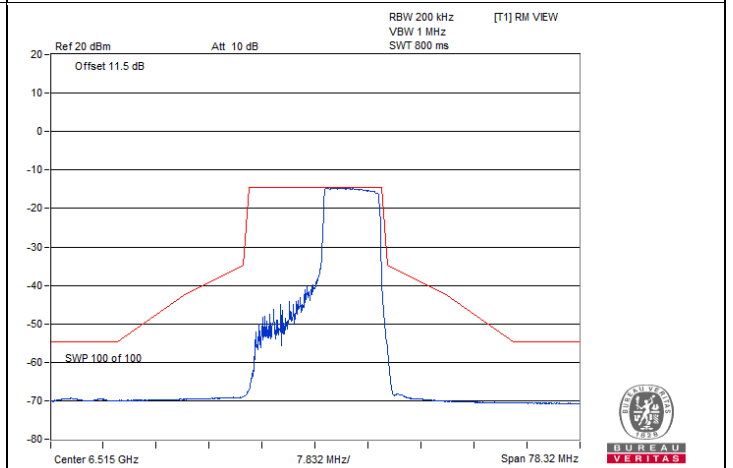
802.11be (EHT20) 106-tone RU / Chain 0 : CH 93@54



802.11be (EHT20) 106-tone RU / Chain 0 : CH 97@53

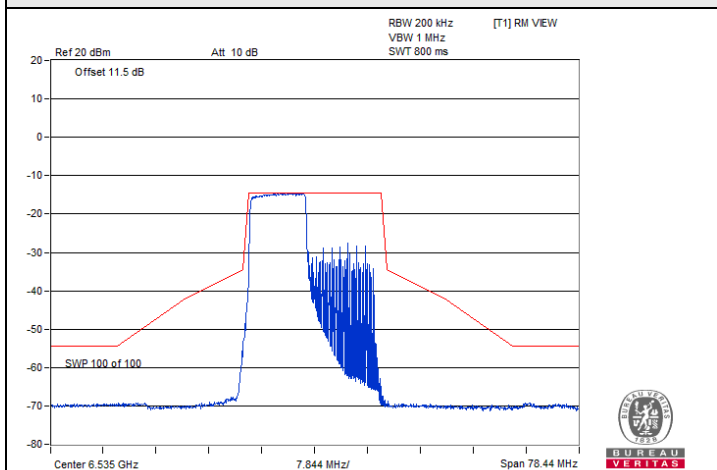


802.11be (EHT20) 106-tone RU / Chain 0 : CH 105@53

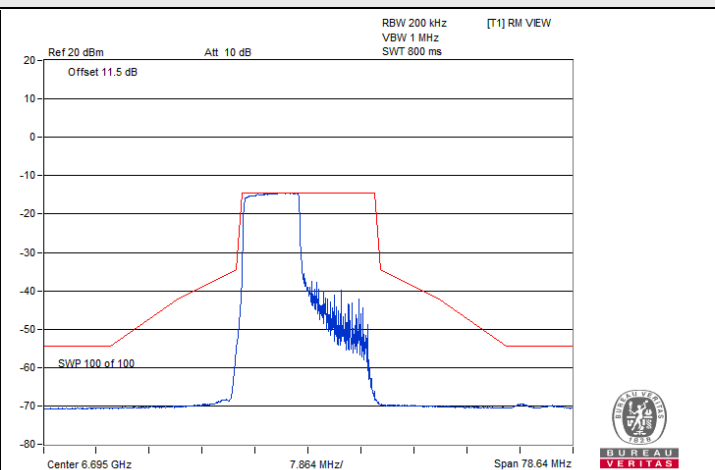


802.11be (EHT20) 106-tone RU / Chain 0 : CH 113@54

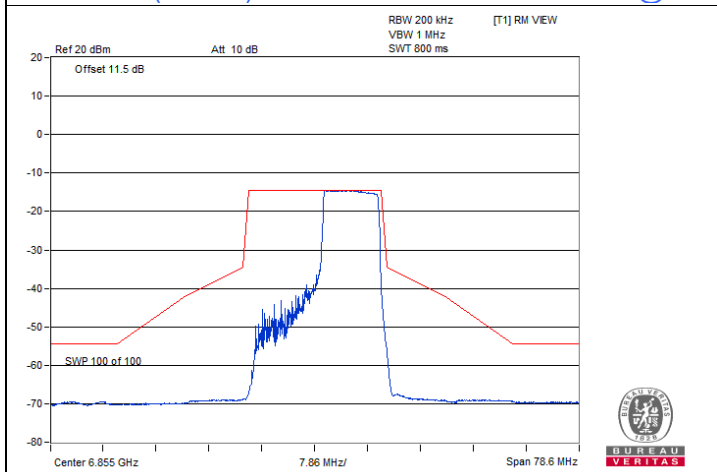
Spectrum Plot



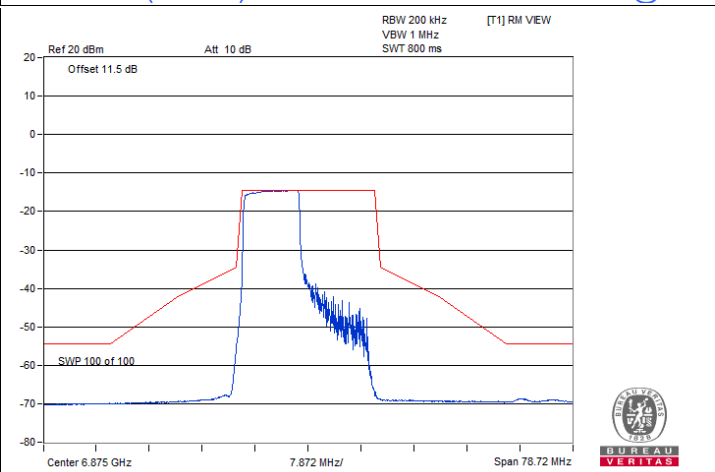
802.11be (EHT20) 106-tone RU / Chain 0 : CH 117@53



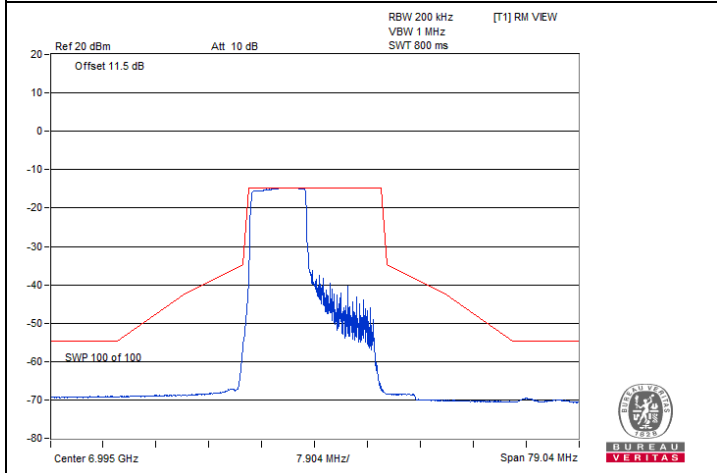
802.11be (EHT20) 106-tone RU / Chain 0 : CH 149@53



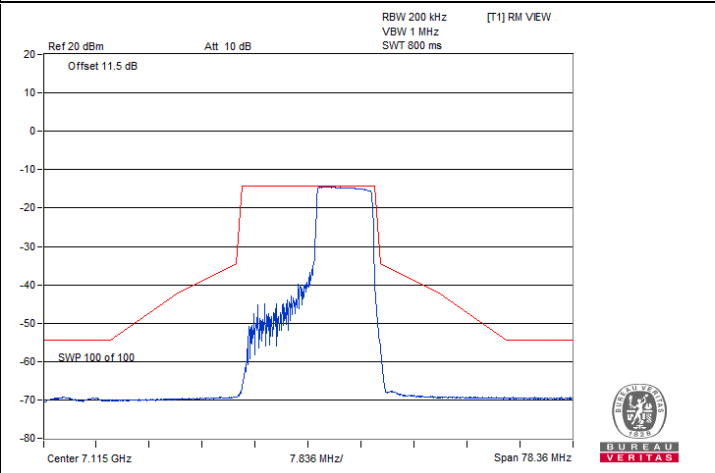
802.11be (EHT20) 106-tone RU / Chain 0 : CH 181@54



802.11be (EHT20) 106-tone RU / Chain 0 : CH 185@53

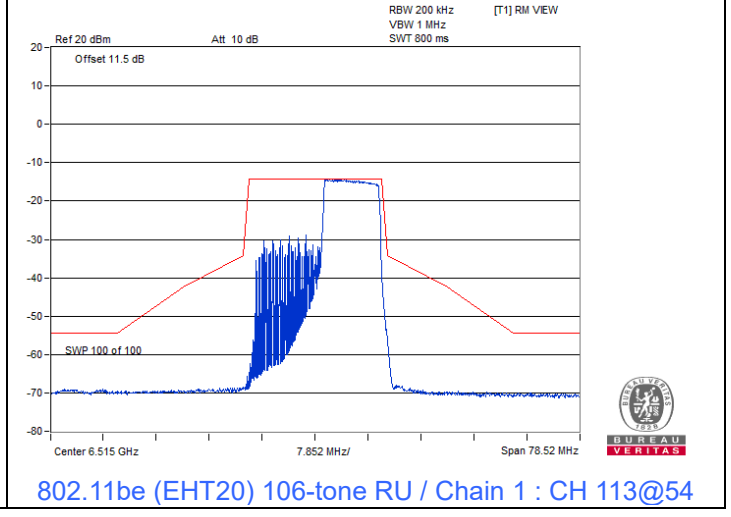
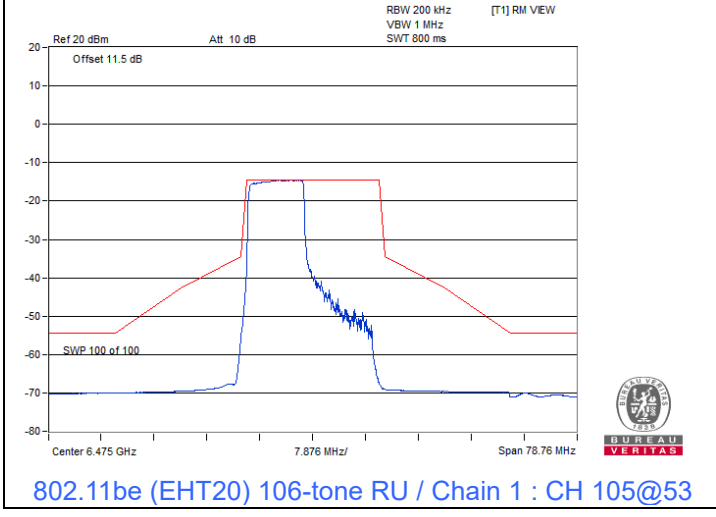
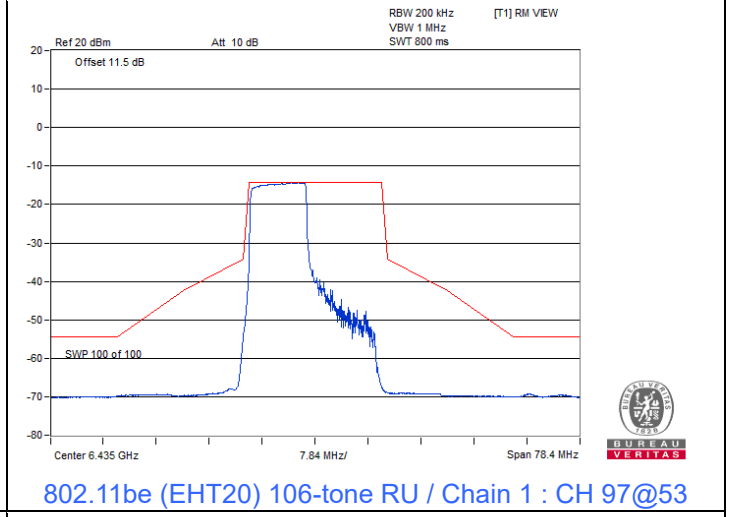
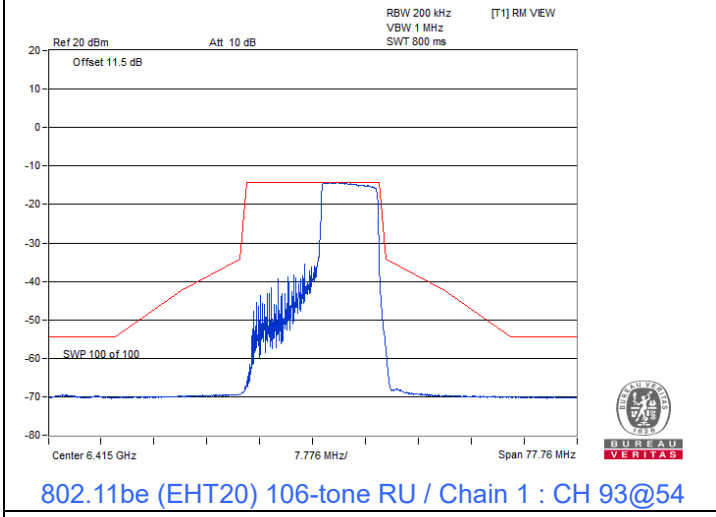
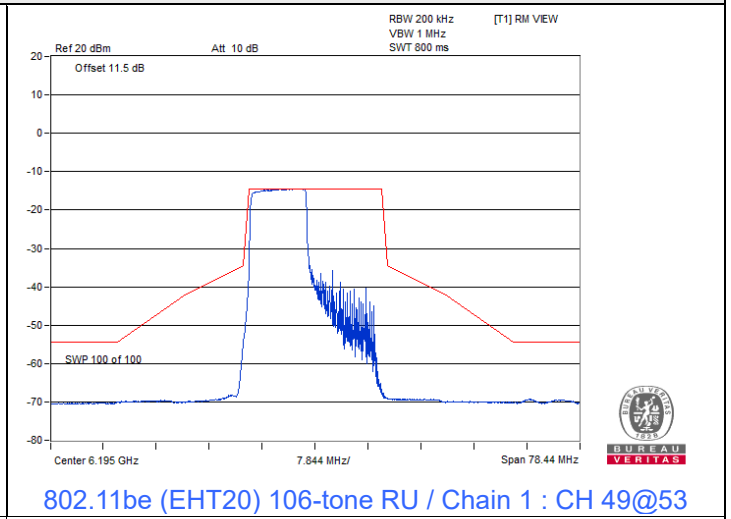
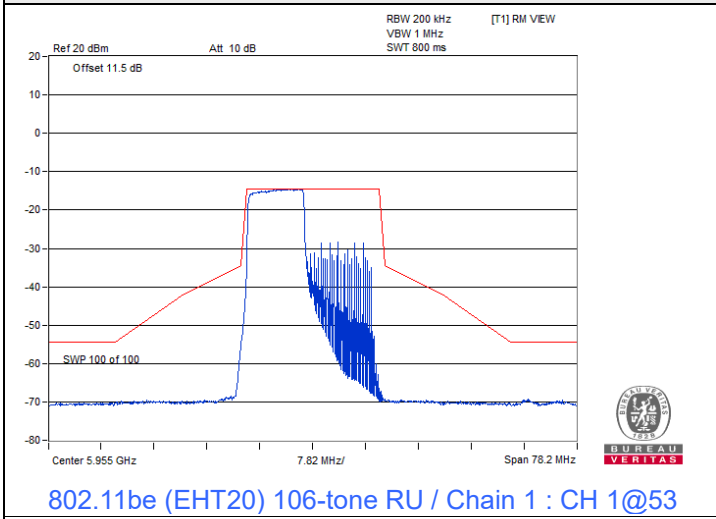


802.11be (EHT20) 106-tone RU / Chain 0 : CH 209@53

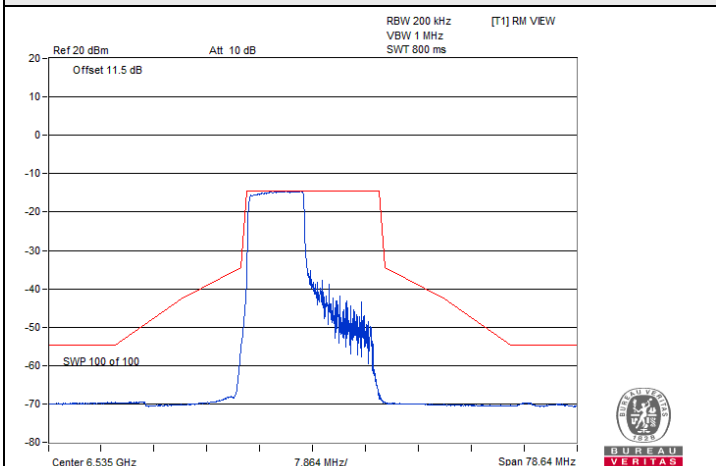


802.11be (EHT20) 106-tone RU / Chain 0 : CH 233@54

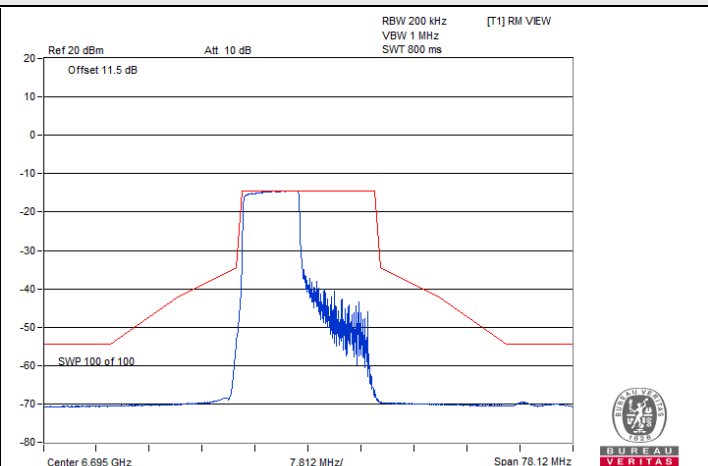
Spectrum Plot



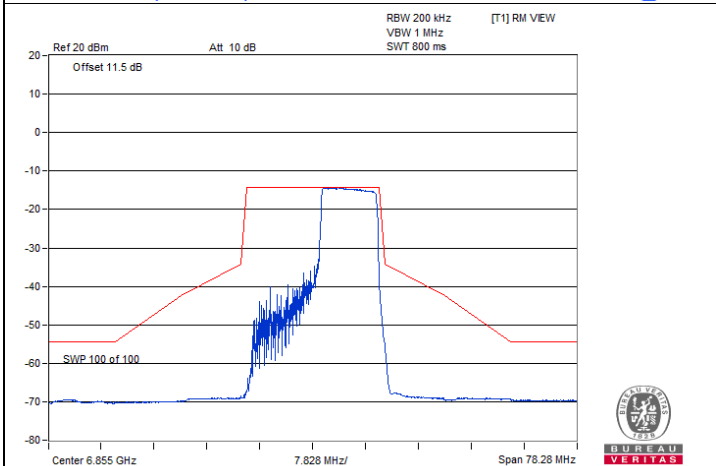
Spectrum Plot



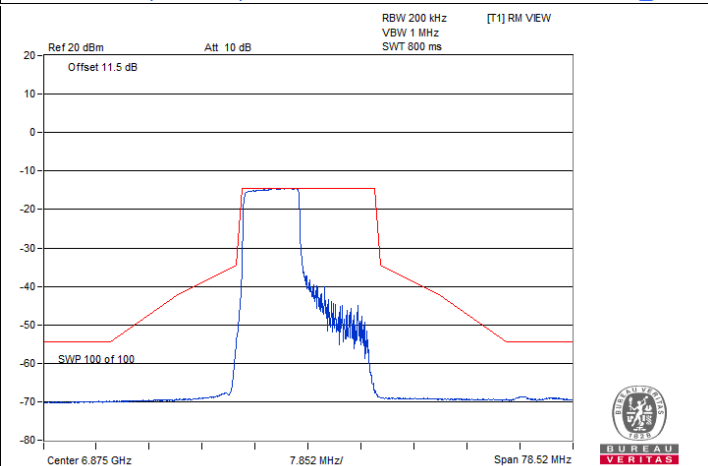
802.11be (EHT20) 106-tone RU / Chain 1 : CH 117@53



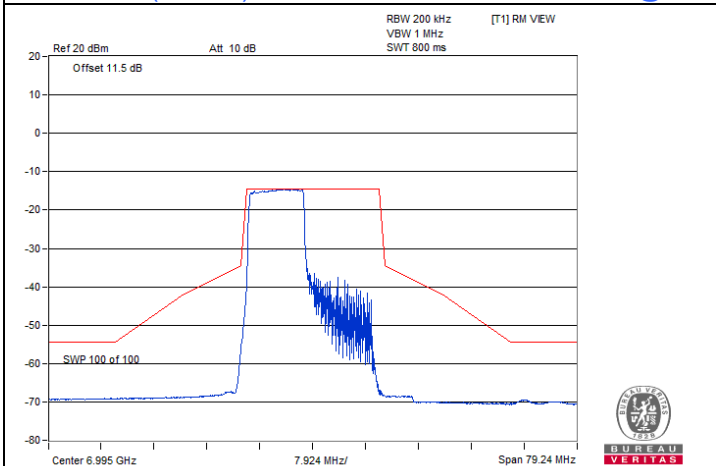
802.11be (EHT20) 106-tone RU / Chain 1 : CH 149@53



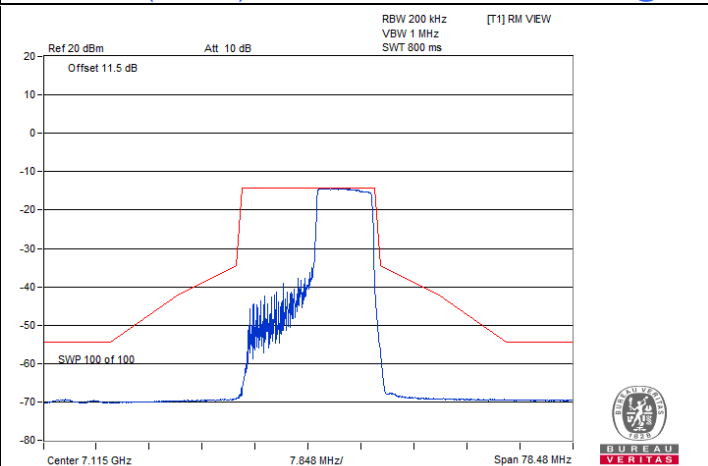
802.11be (EHT20) 106-tone RU / Chain 1 : CH 181@54



802.11be (EHT20) 106-tone RU / Chain 1 : CH 185@53



802.11be (EHT20) 106-tone RU / Chain 1 : CH 209@53



802.11be (EHT20) 106-tone RU / Chain 1 : CH 233@54



BUREAU
VERITAS

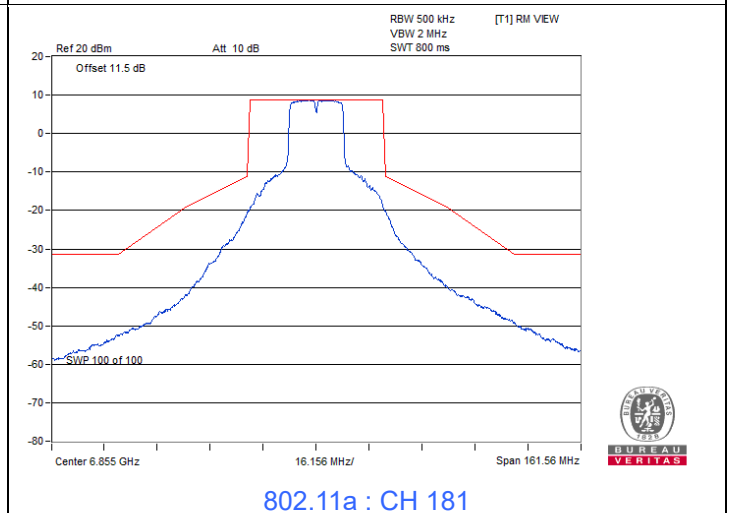
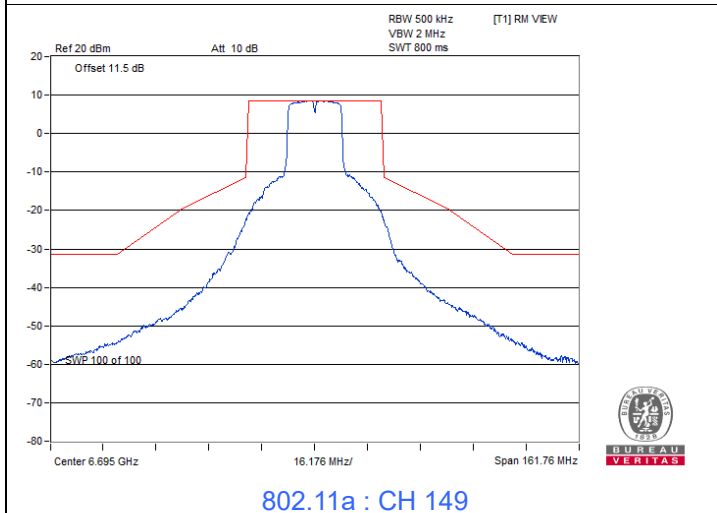
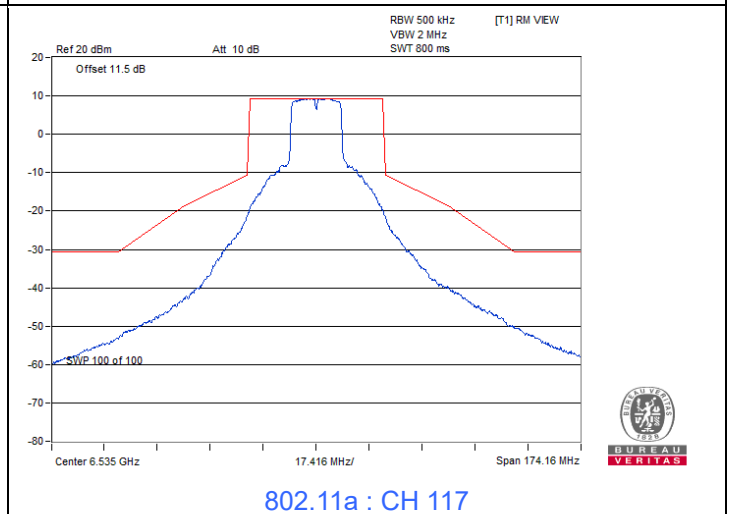
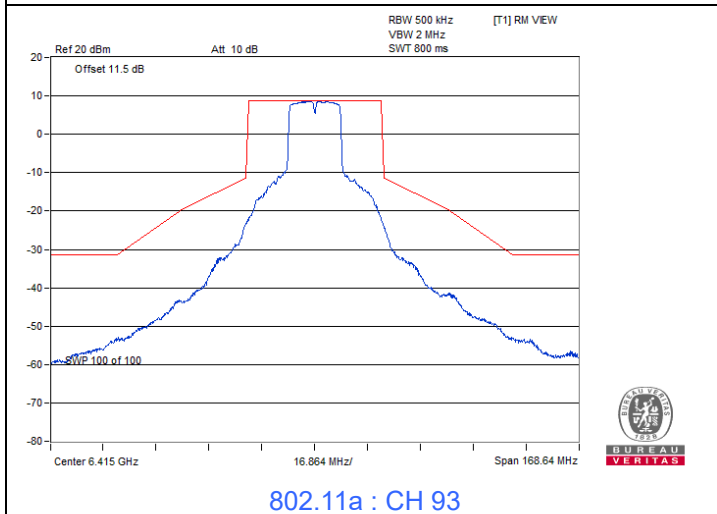
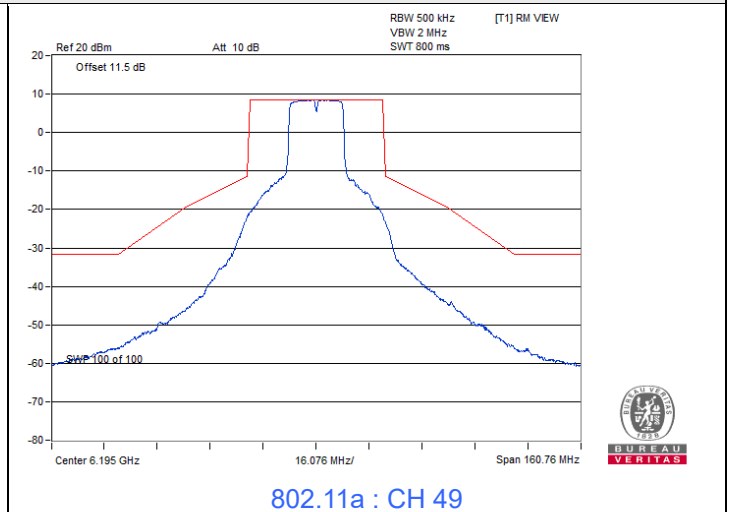
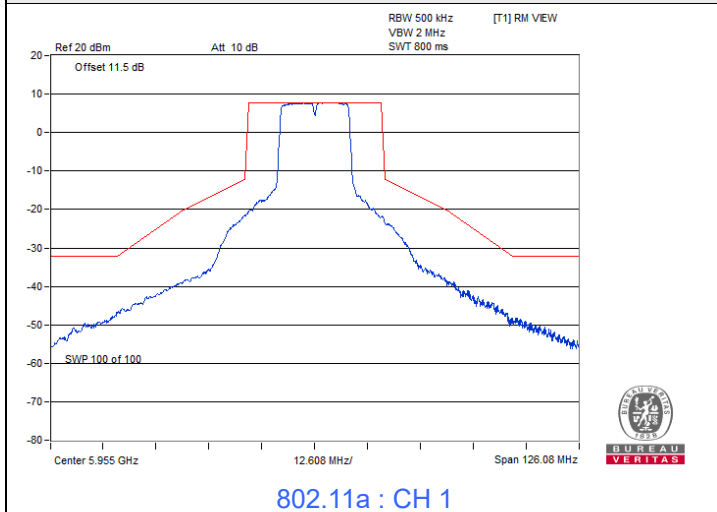
Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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under control of standard power AP

1TX

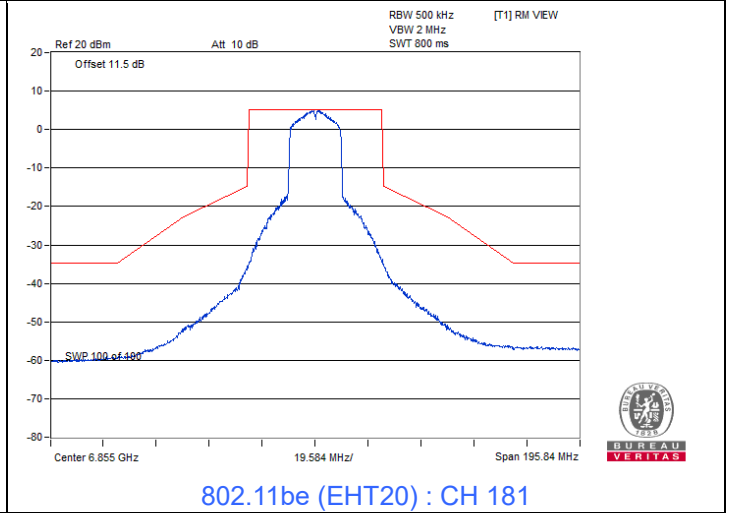
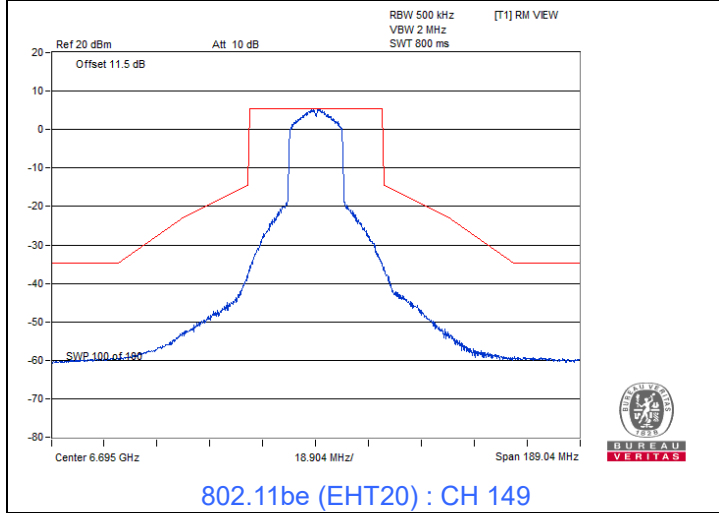
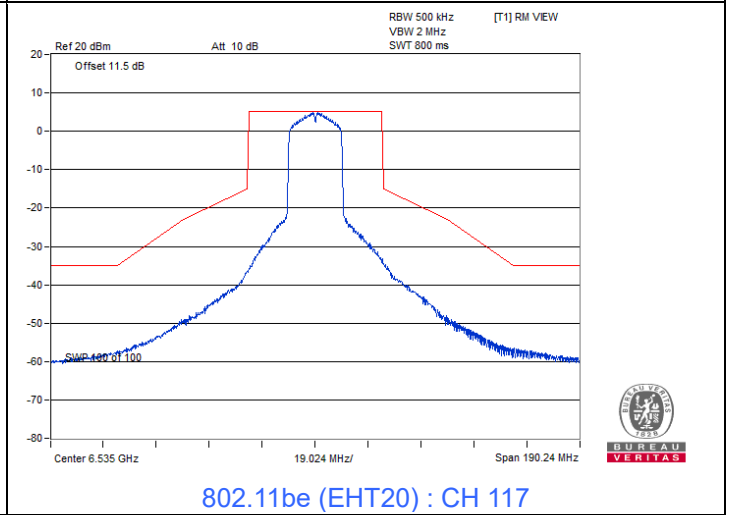
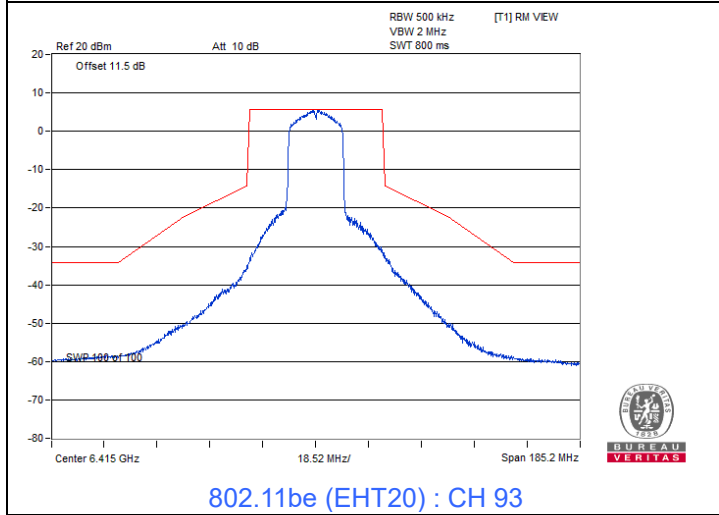
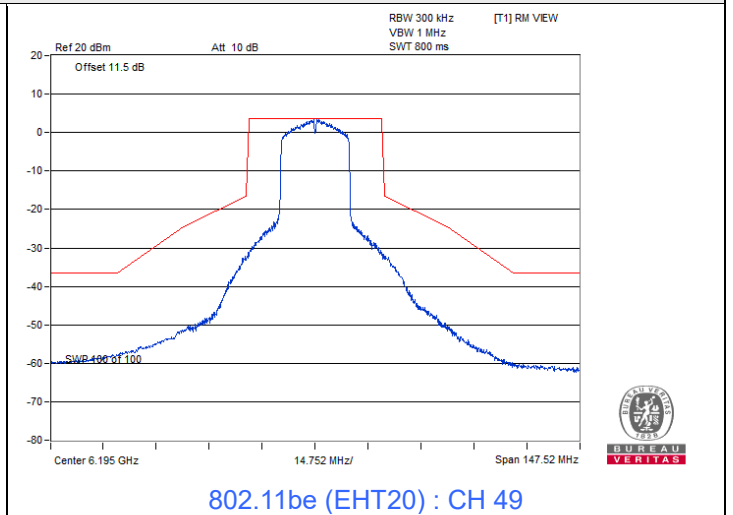
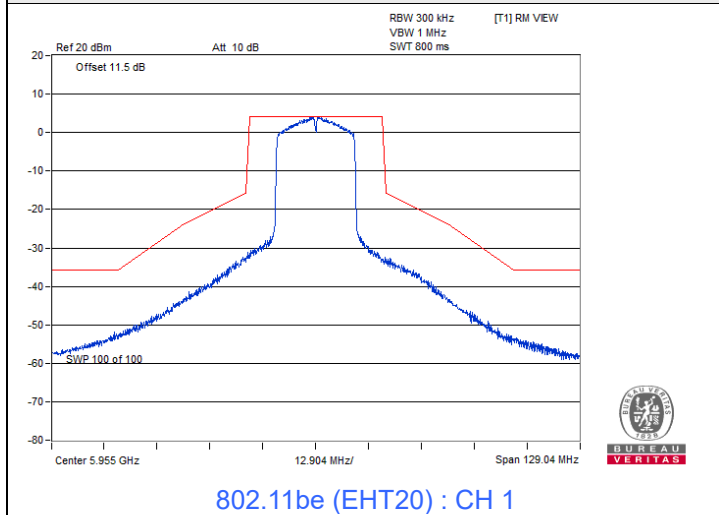
802.11a

Spectrum Plot



802.11be (EHT20)

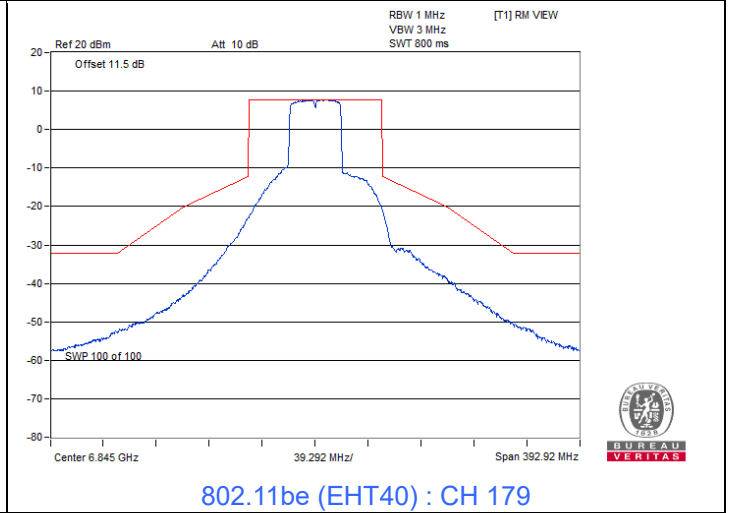
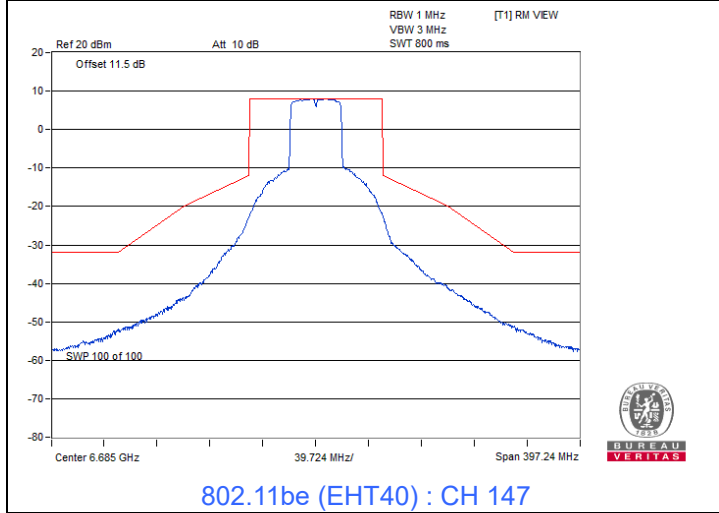
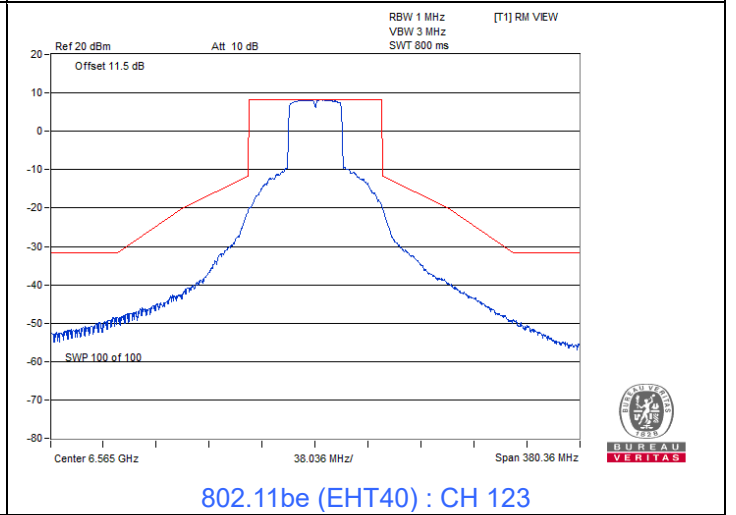
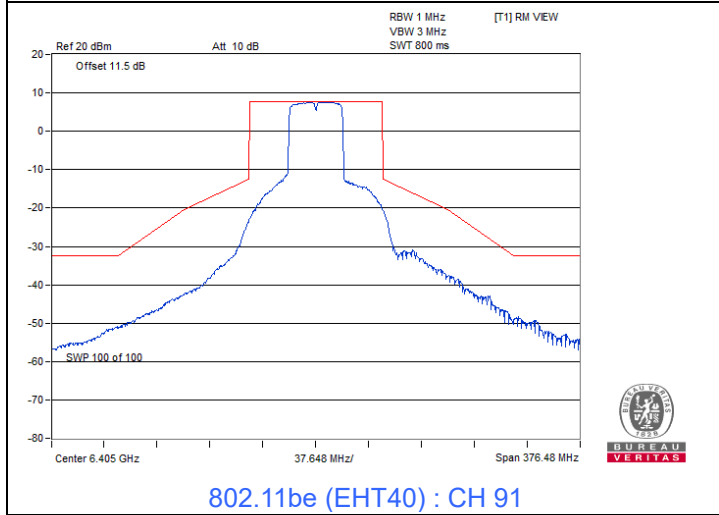
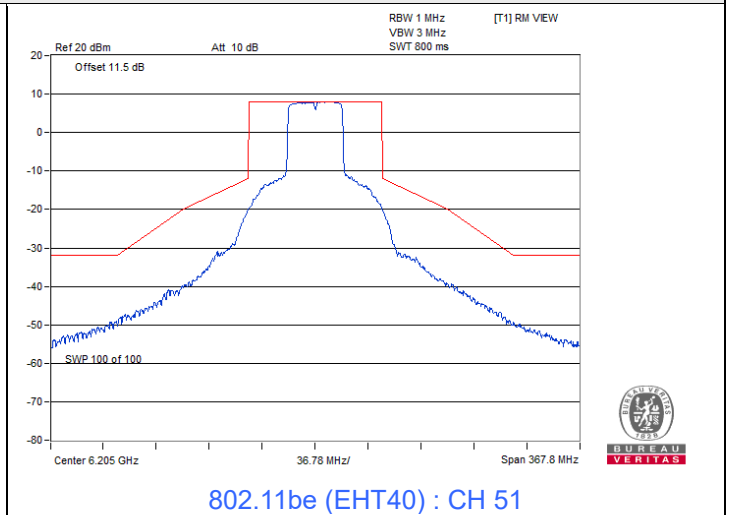
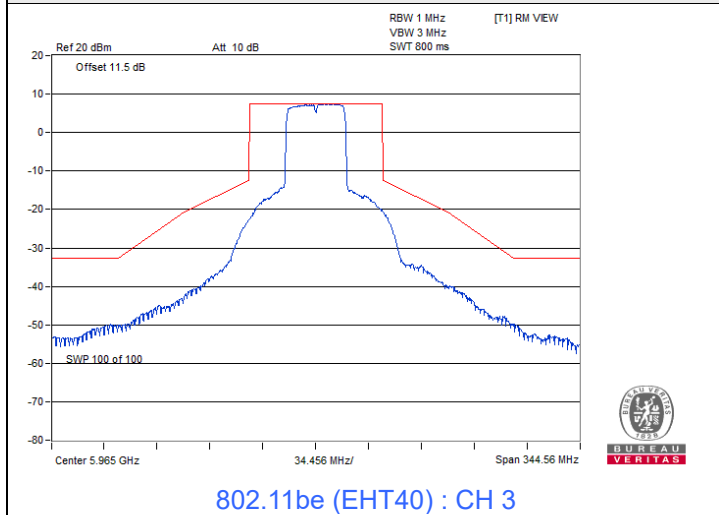
Spectrum Plot





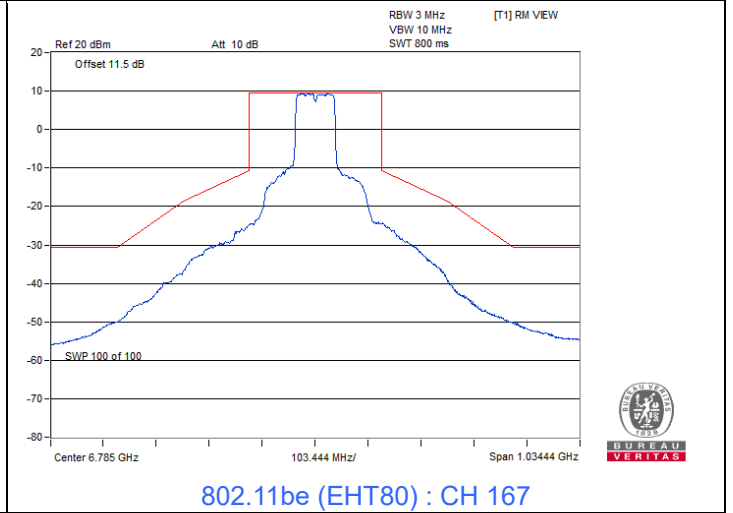
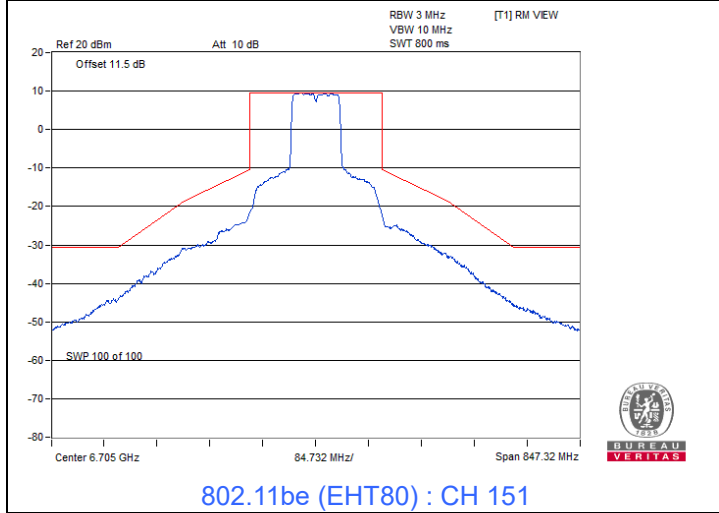
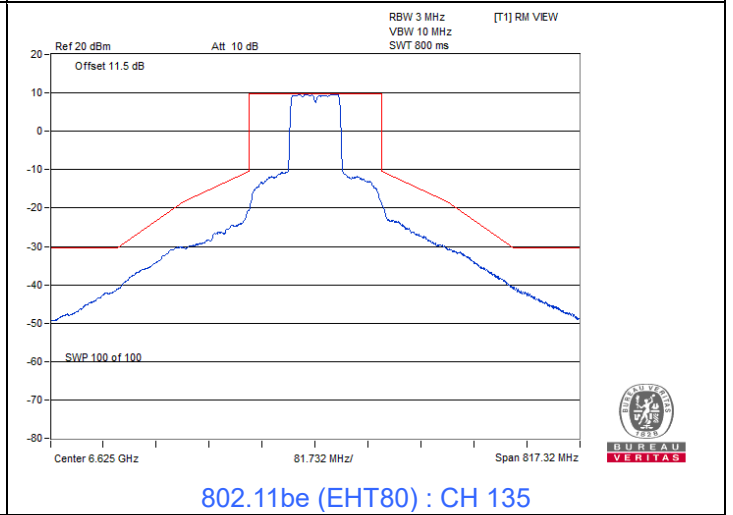
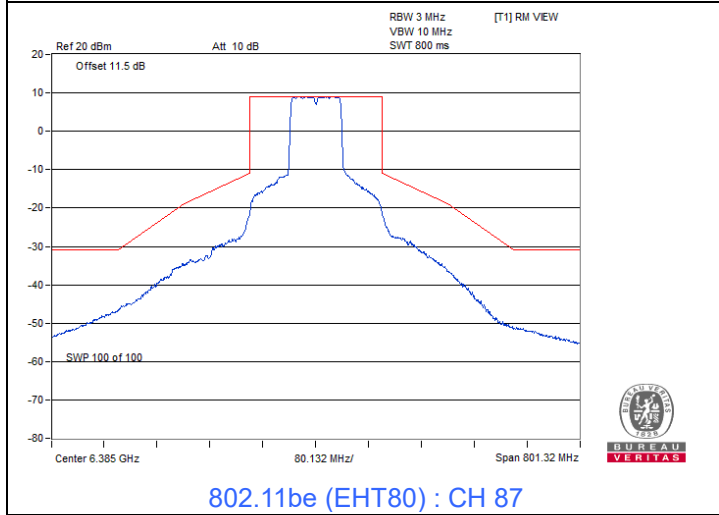
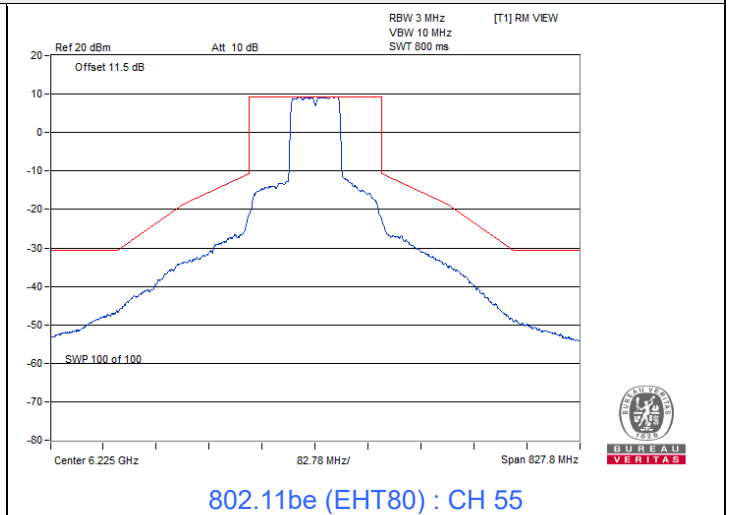
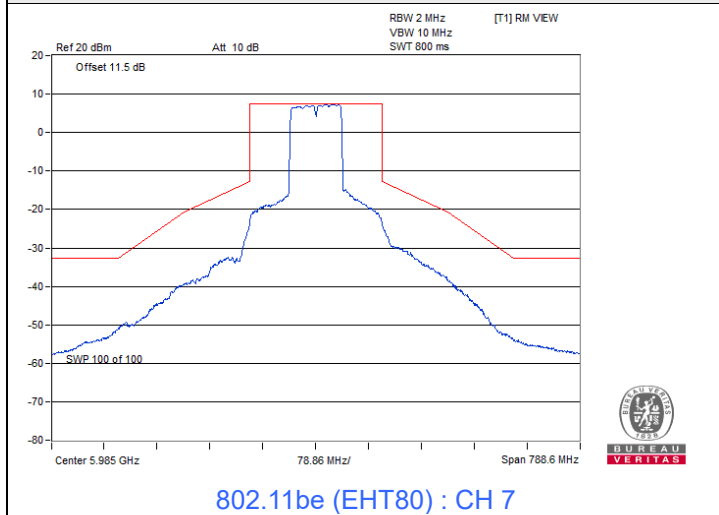
802.11be (EHT40)

Spectrum Plot



802.11be (EHT80)

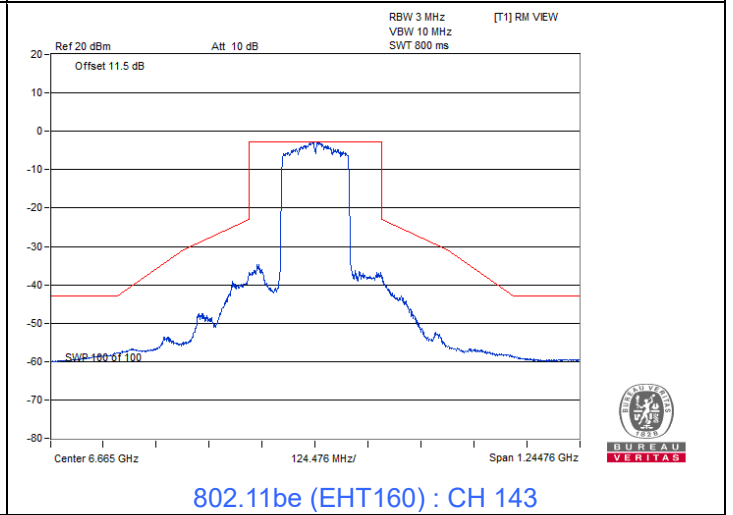
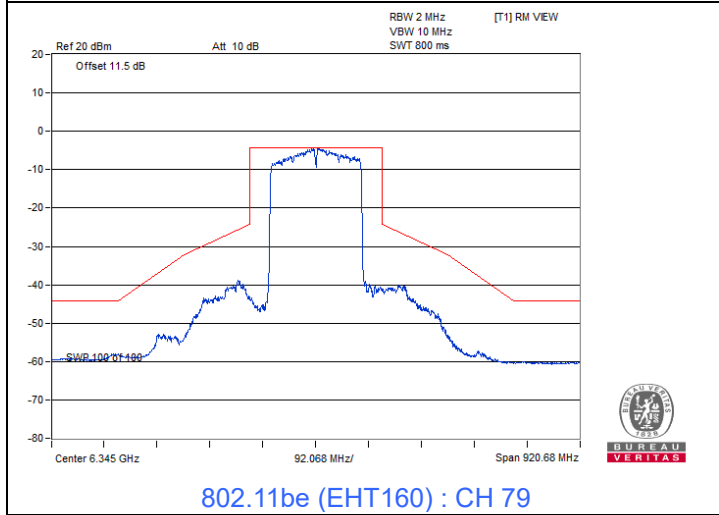
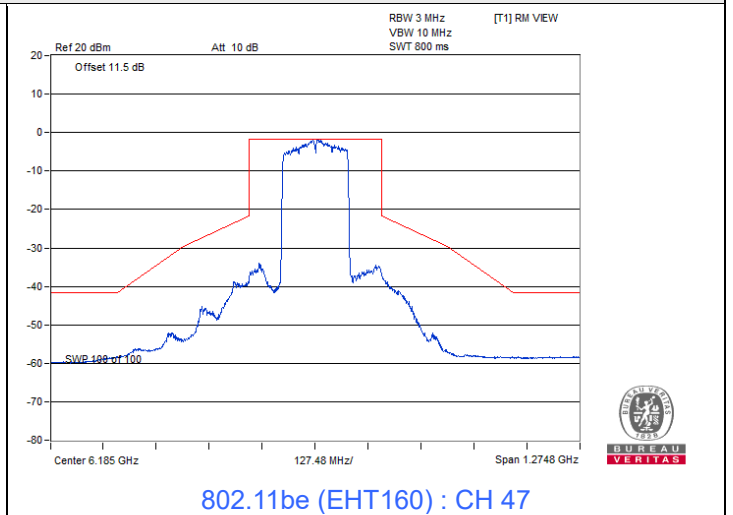
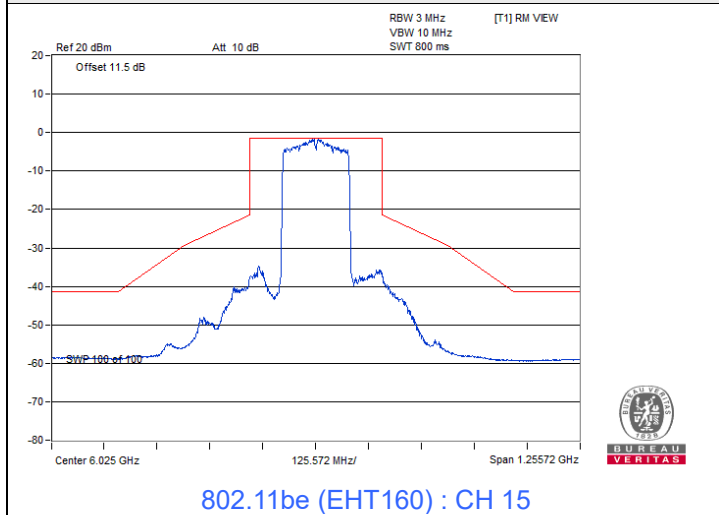
Spectrum Plot





802.11be (EHT160)

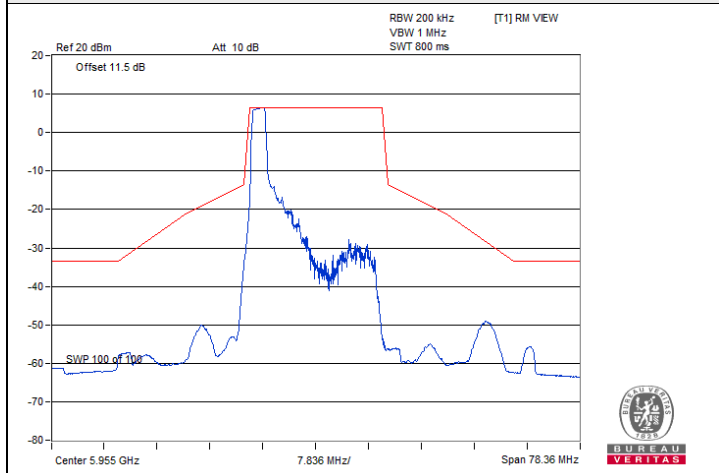
Spectrum Plot



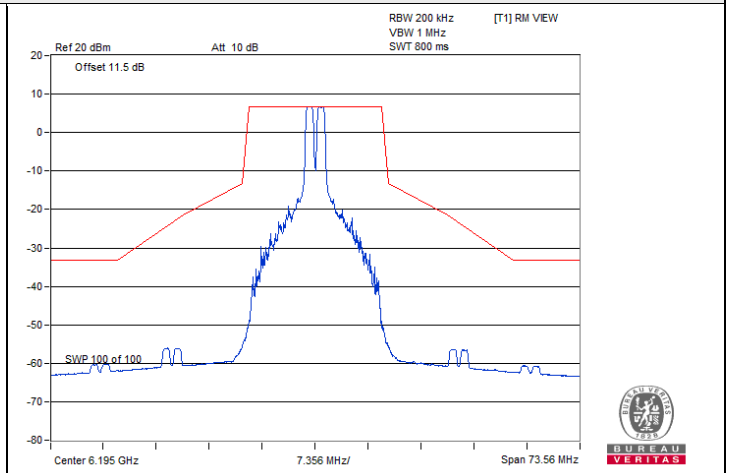


802.11be (EHT20) 26-tone RU

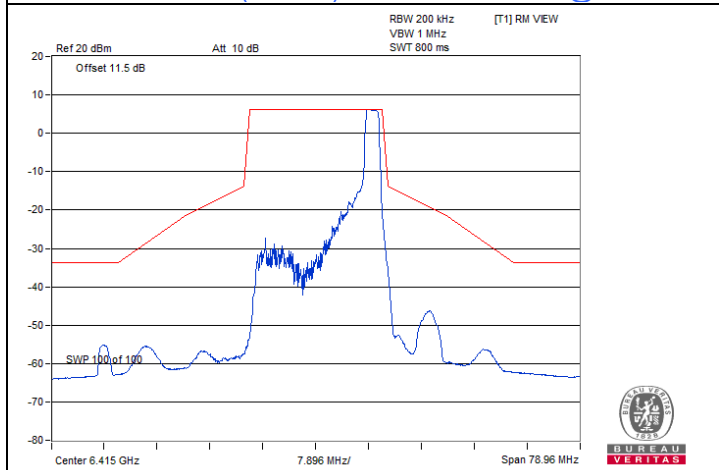
Spectrum Plot



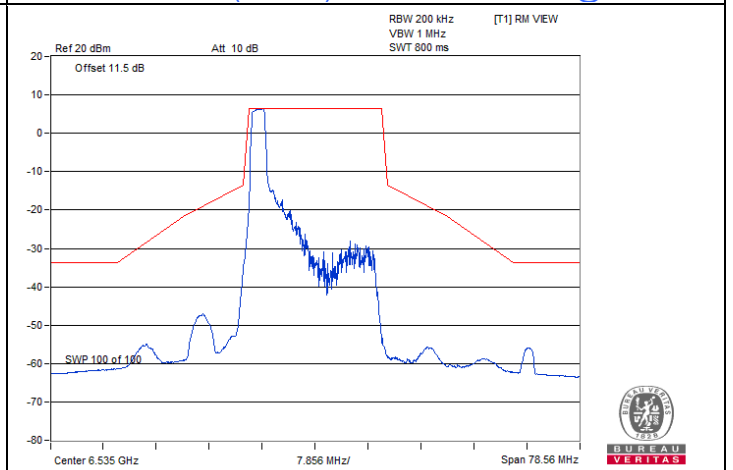
802.11be (EHT20) 26-tone RU : CH 1@8



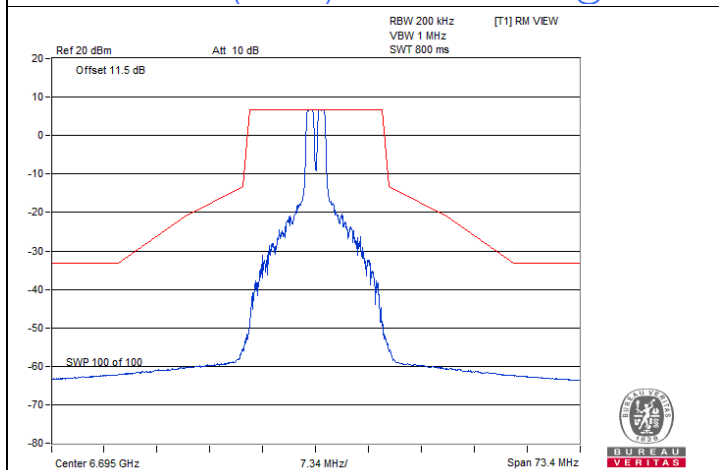
802.11be (EHT20) 26-tone RU : CH 49@4



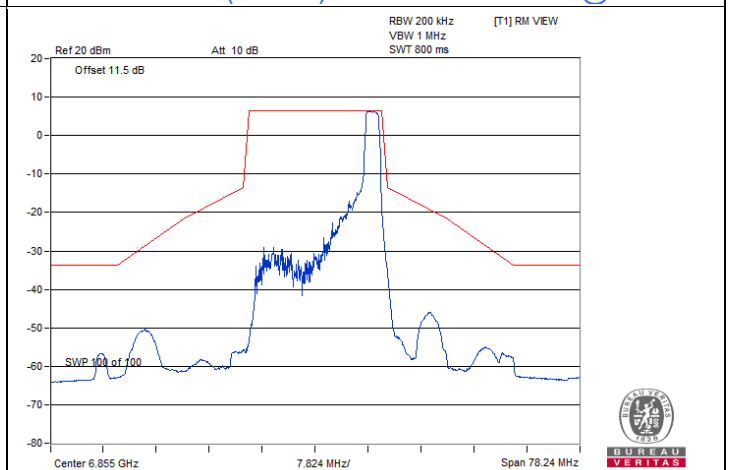
802.11be (EHT20) 26-tone RU : CH 93@8



802.11be (EHT20) 26-tone RU : CH 117@8



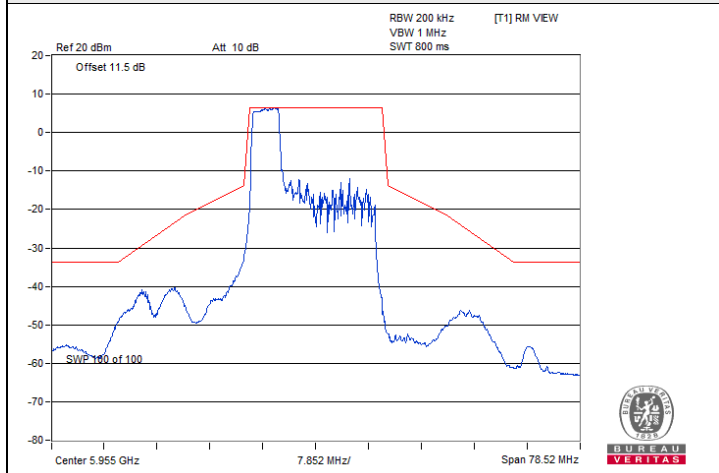
802.11be (EHT20) 26-tone RU : CH 149@4



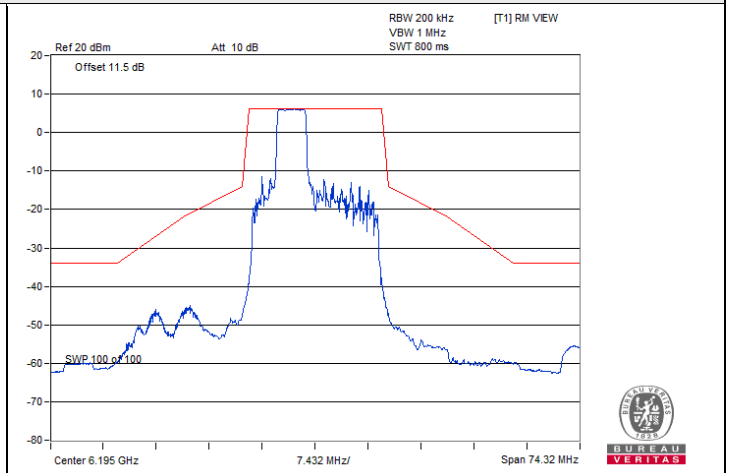
802.11be (EHT20) 26-tone RU : CH 181@8

802.11be (EHT20) 52-tone RU

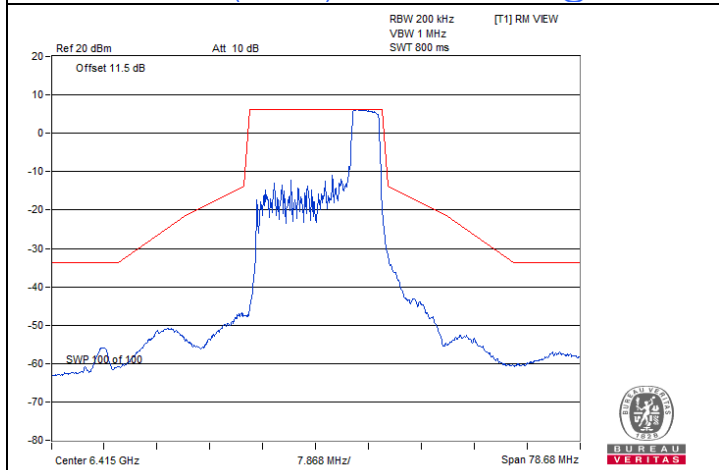
Spectrum Plot



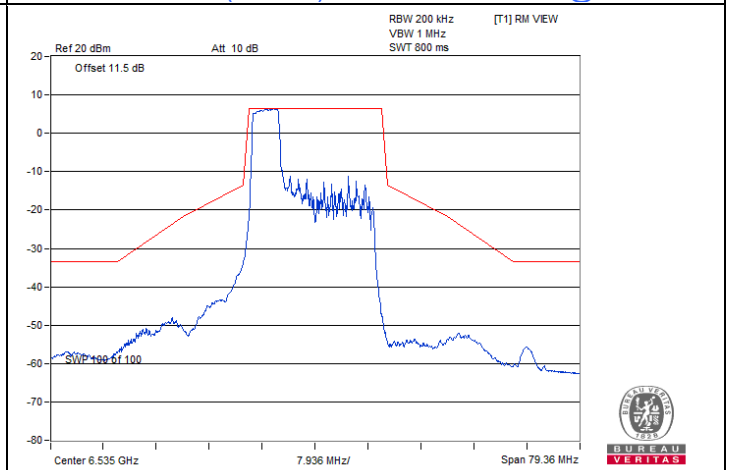
802.11be (EHT20) 52-tone RU : CH 1@37



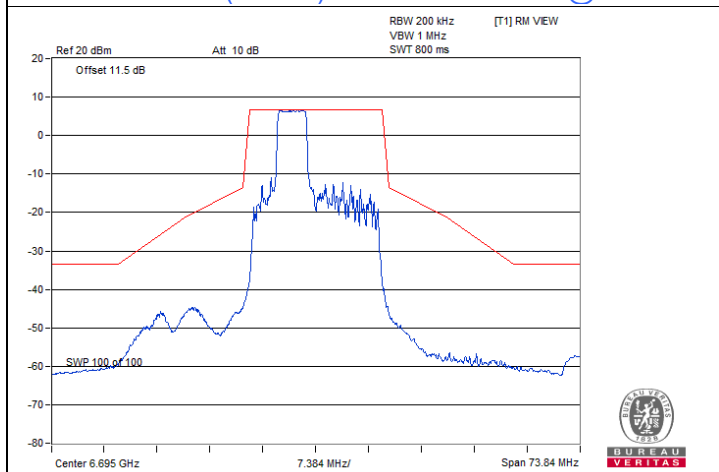
802.11be (EHT20) 52-tone RU : CH 49@38



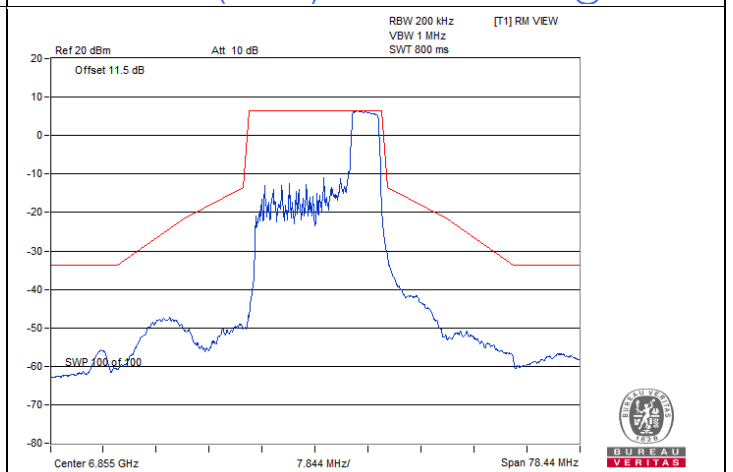
802.11be (EHT20) 52-tone RU : CH 93@40



802.11be (EHT20) 52-tone RU : CH 117@37



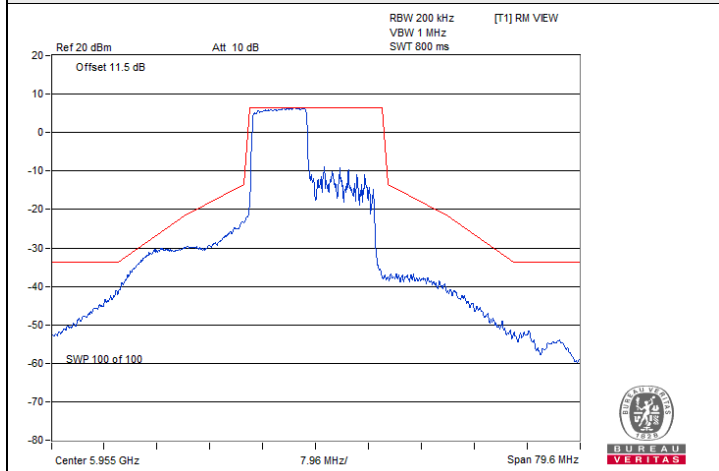
802.11be (EHT20) 52-tone RU : CH 149@38



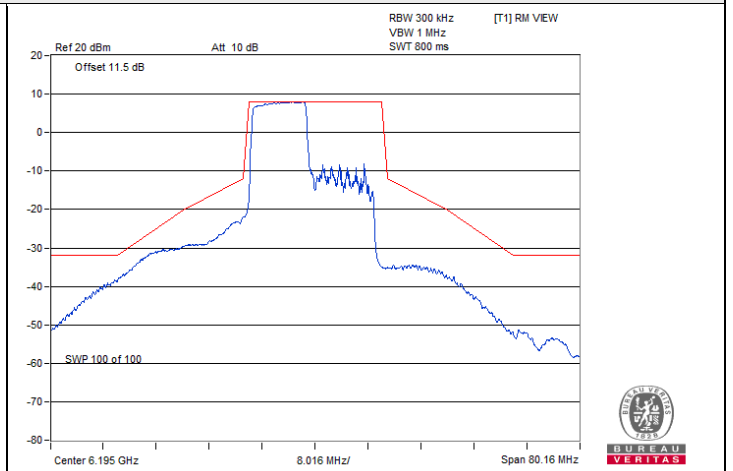
802.11be (EHT20) 52-tone RU : CH 181@40

802.11be (EHT20) 106-tone RU

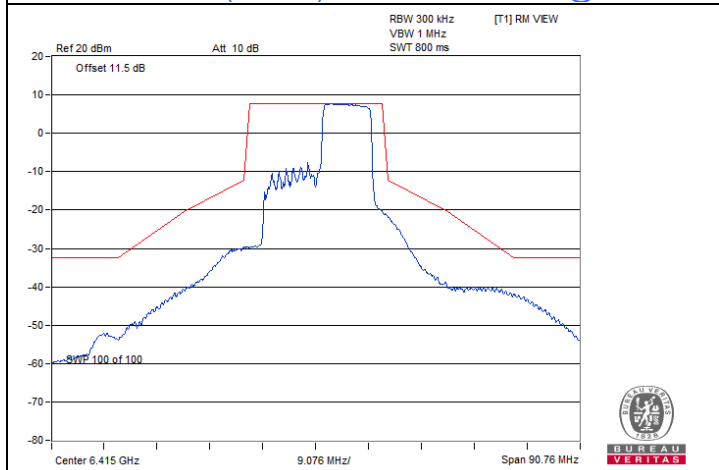
Spectrum Plot



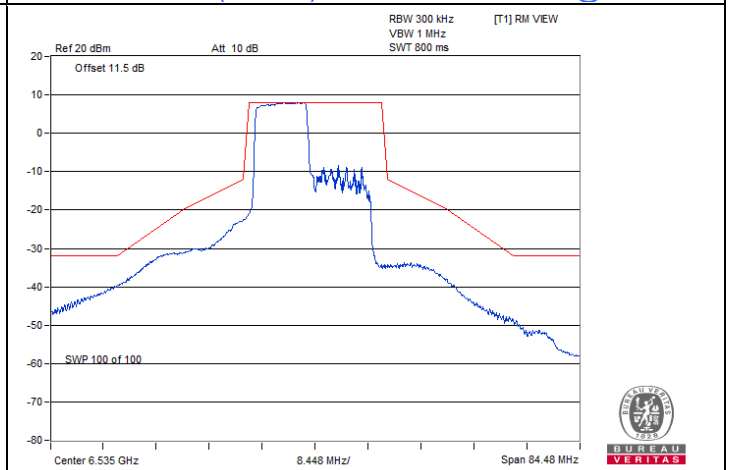
802.11be (EHT20) 106-tone RU : CH 1@53



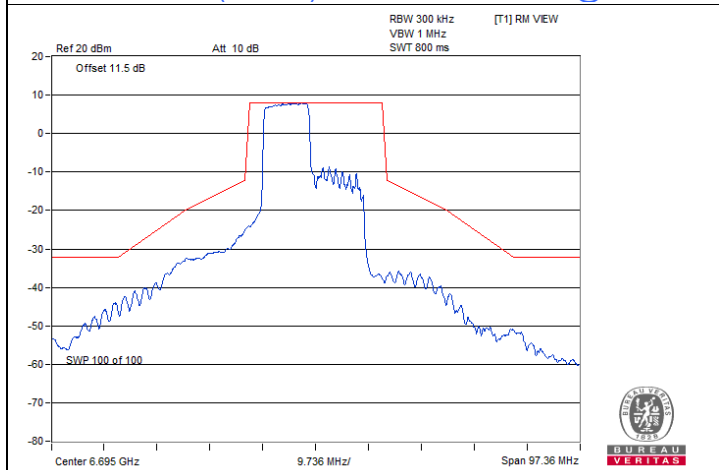
802.11be (EHT20) 106-tone RU : CH 49@53



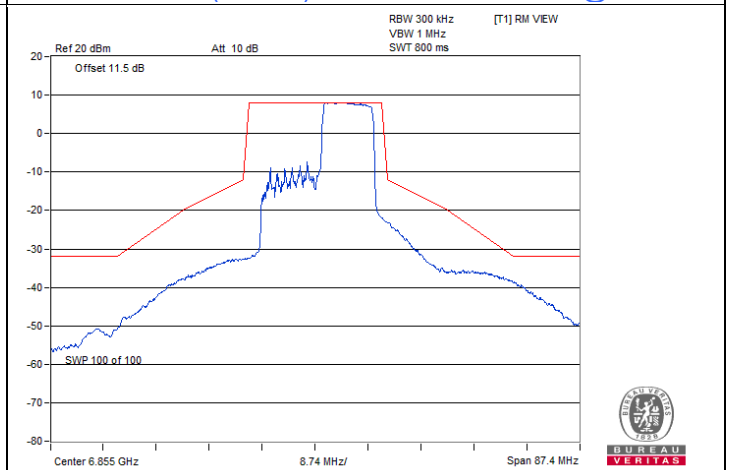
802.11be (EHT20) 106-tone RU : CH 93@54



802.11be (EHT20) 106-tone RU : CH 117@53



802.11be (EHT20) 106-tone RU : CH 149@53

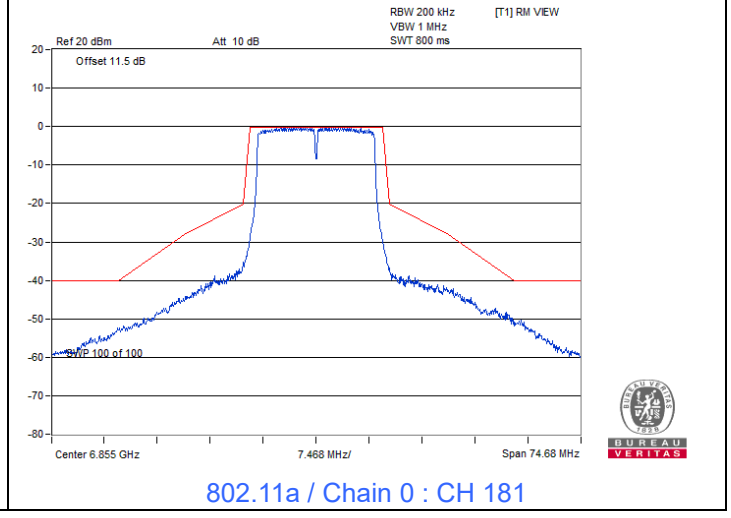
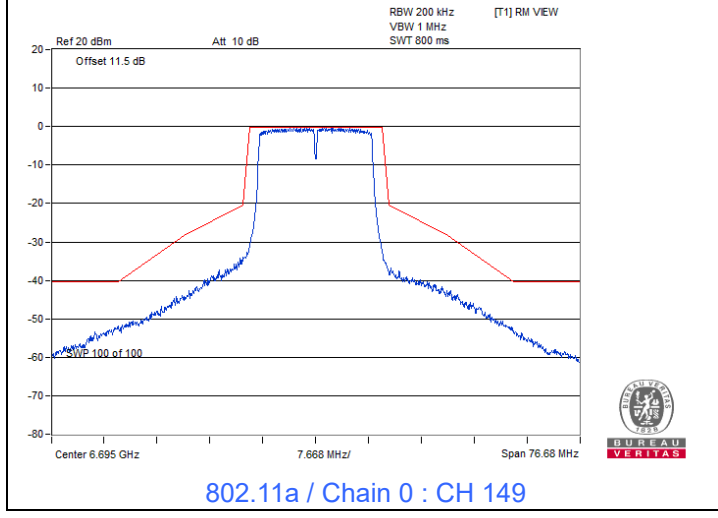
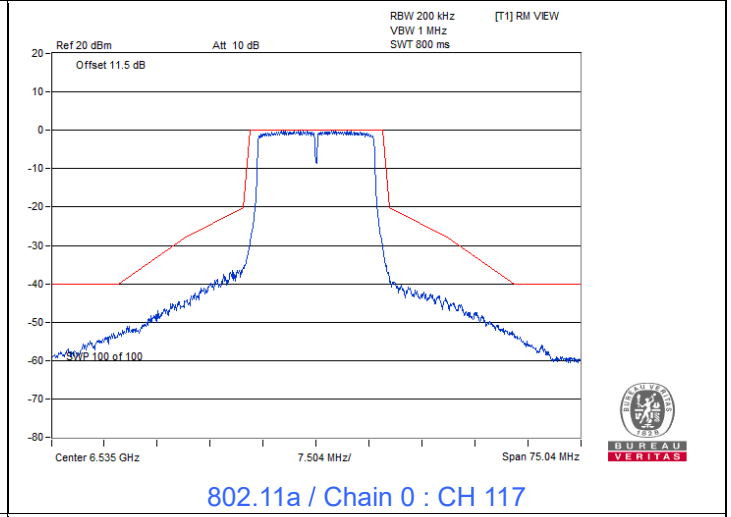
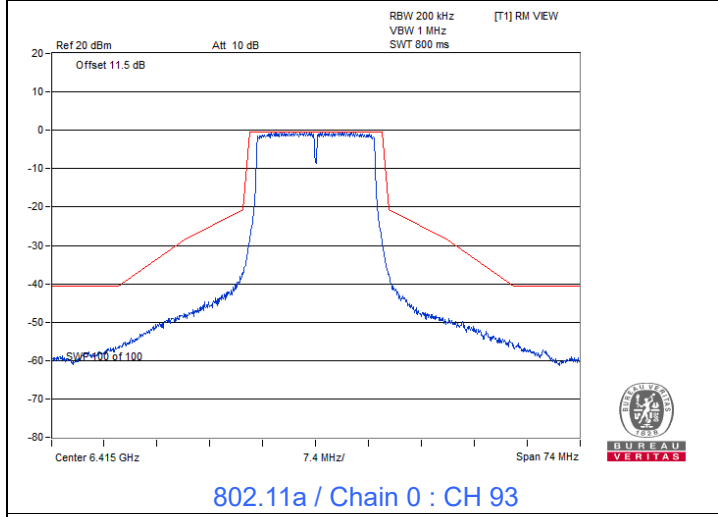
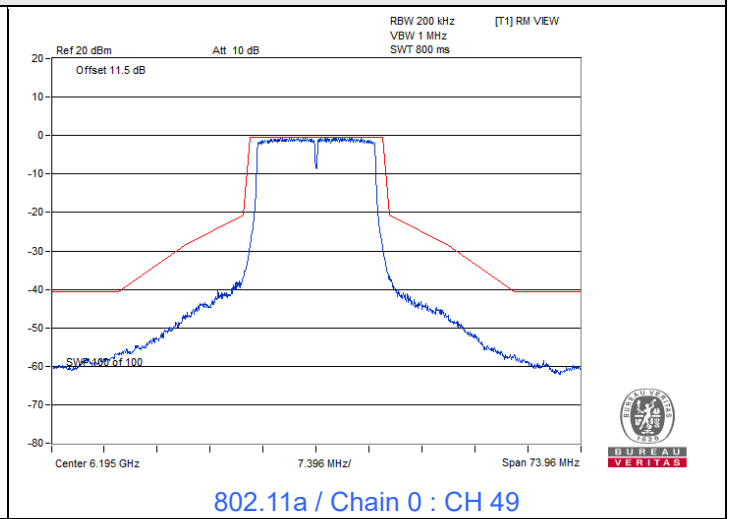
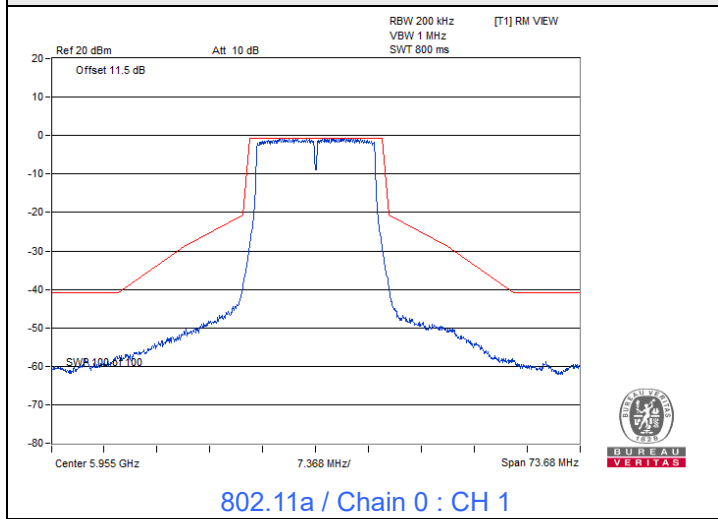


802.11be (EHT20) 106-tone RU : CH 181@54

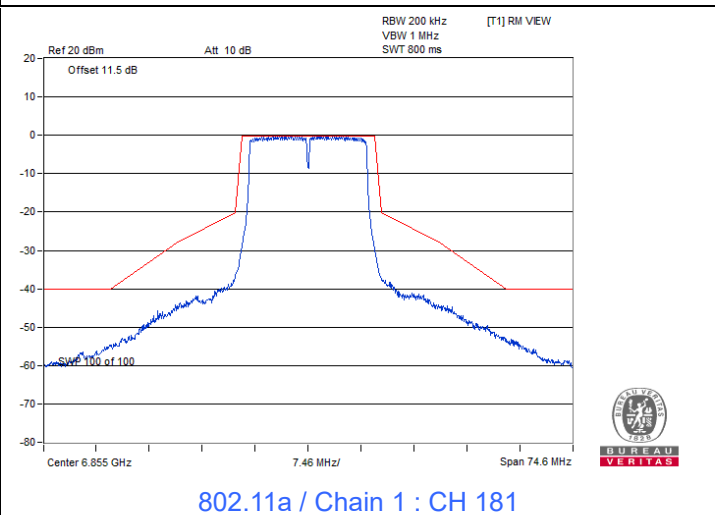
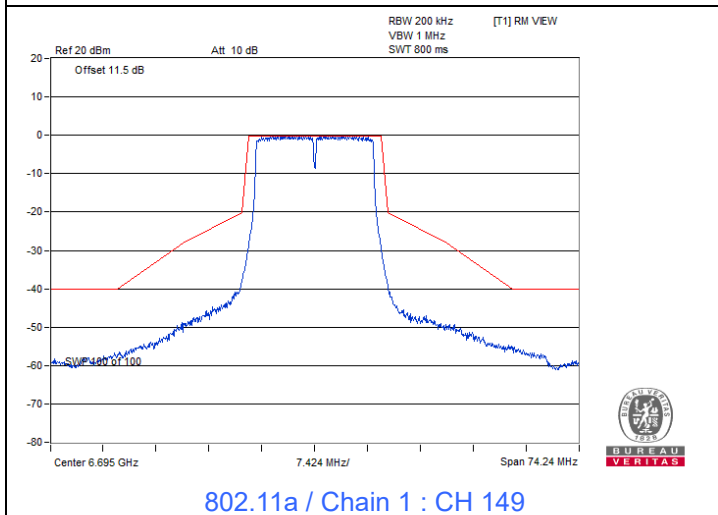
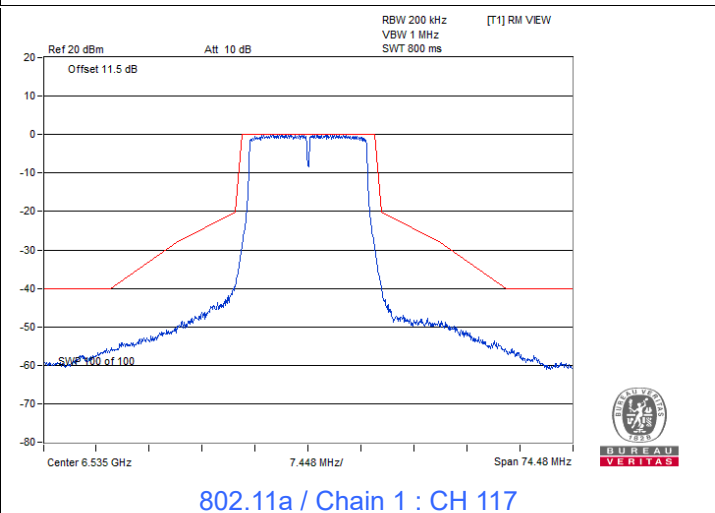
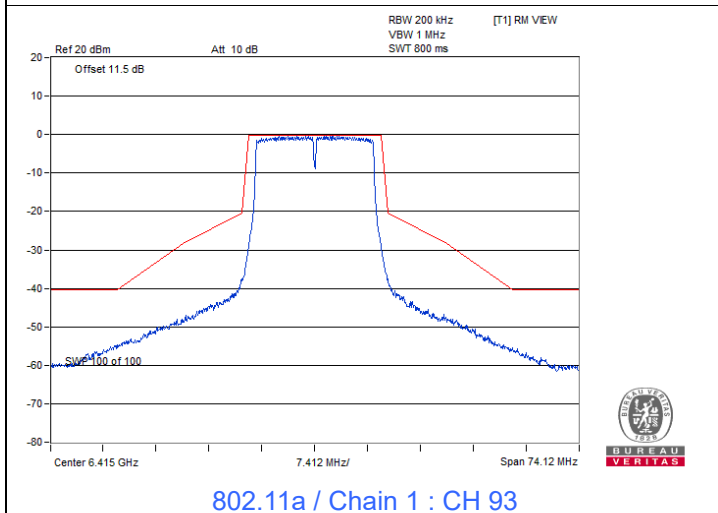
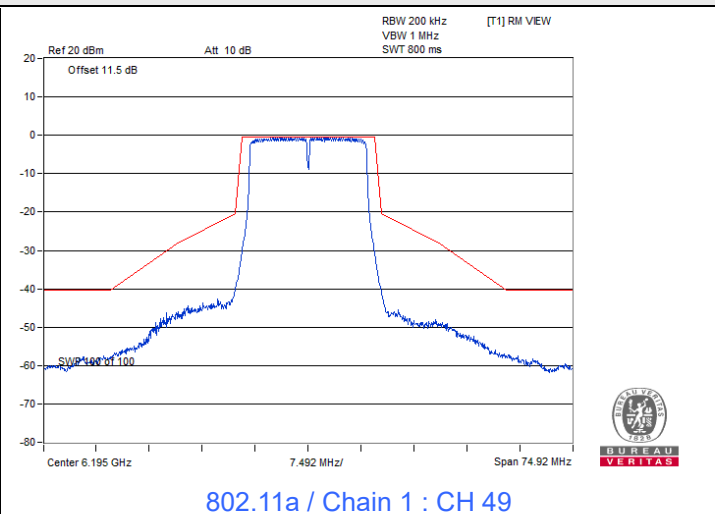
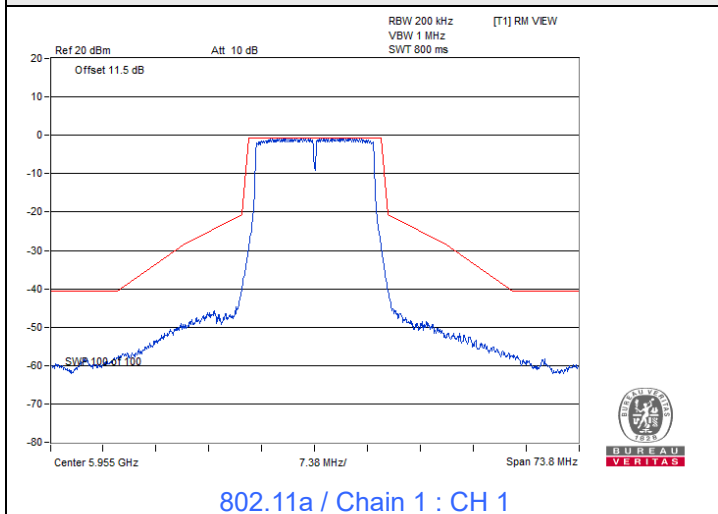
2TX

802.11a

Spectrum Plot

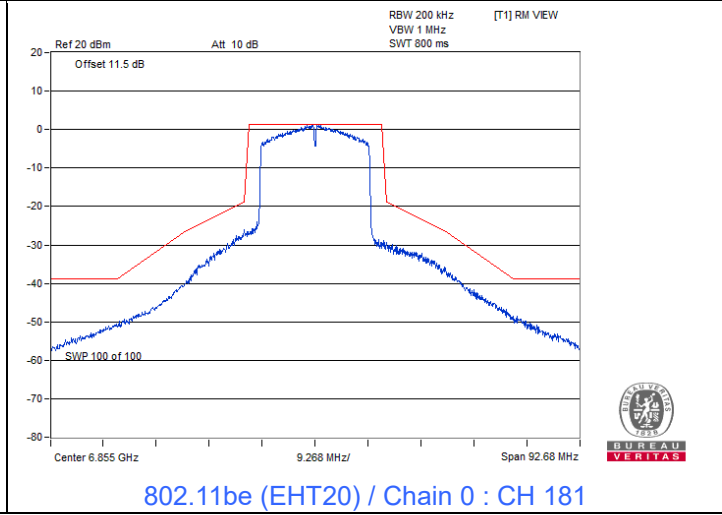
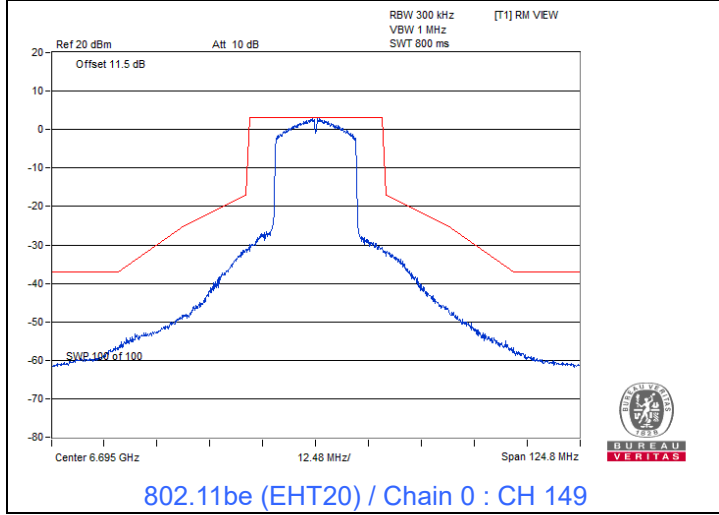
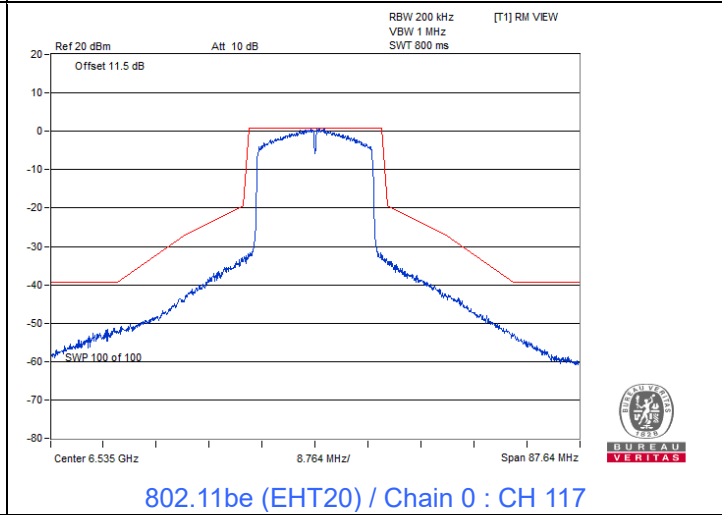
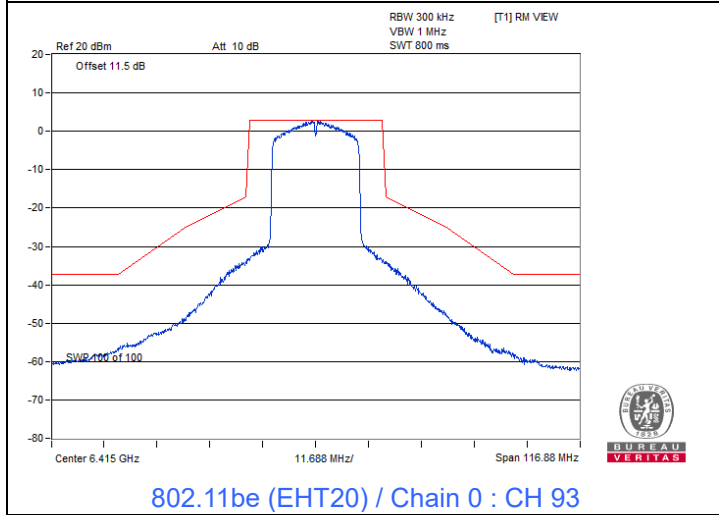
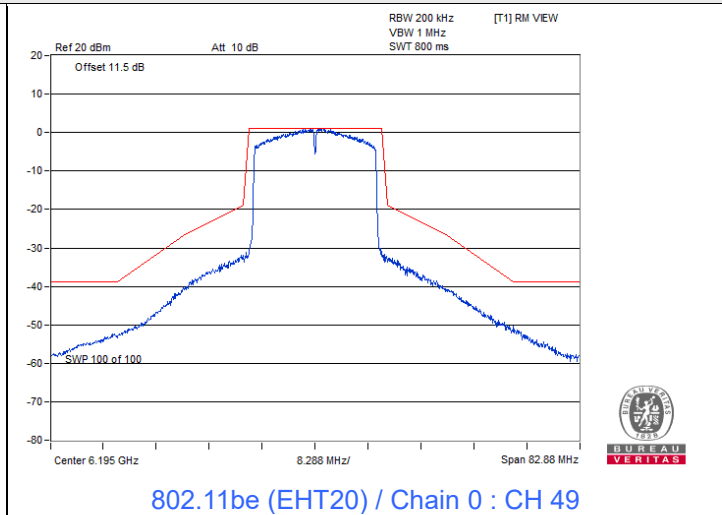
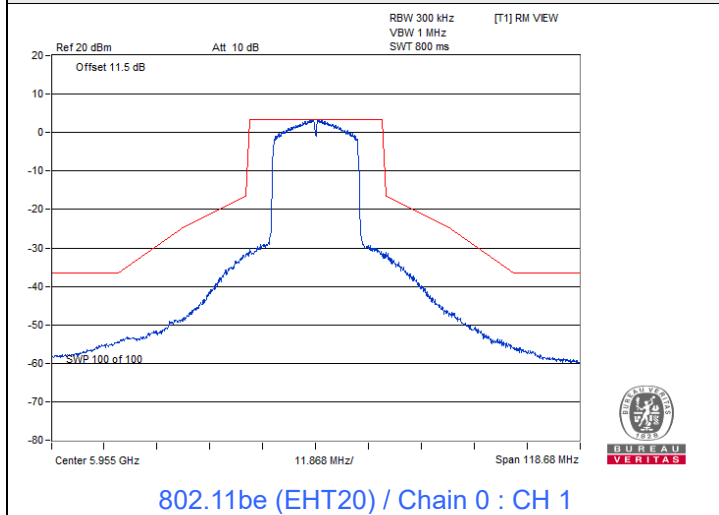


Spectrum Plot

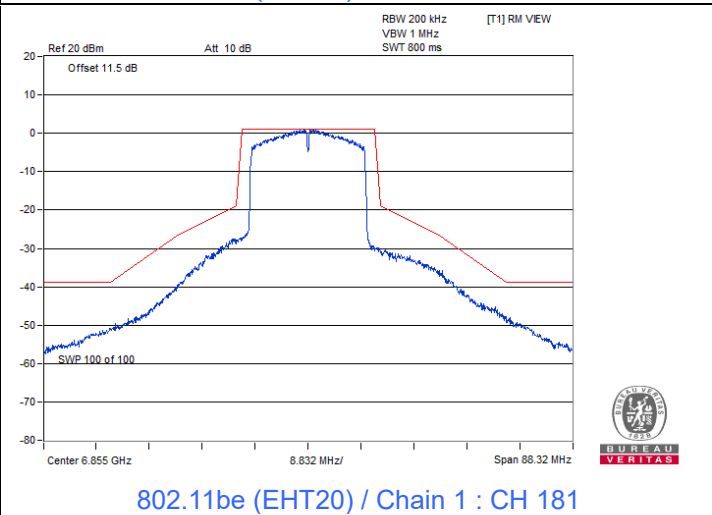
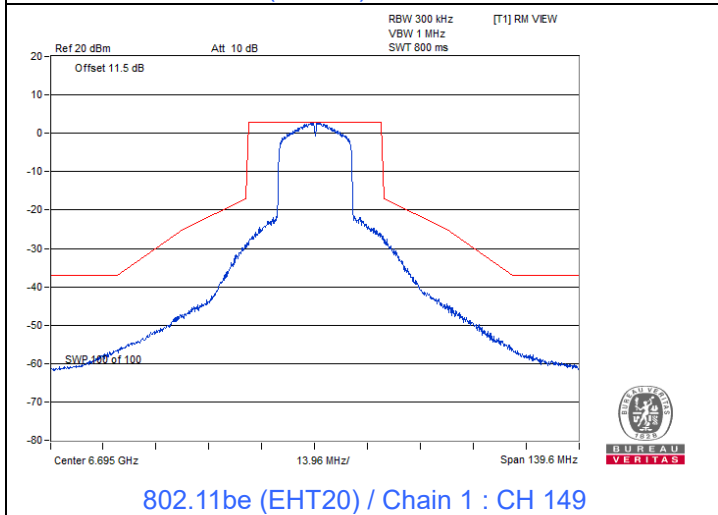
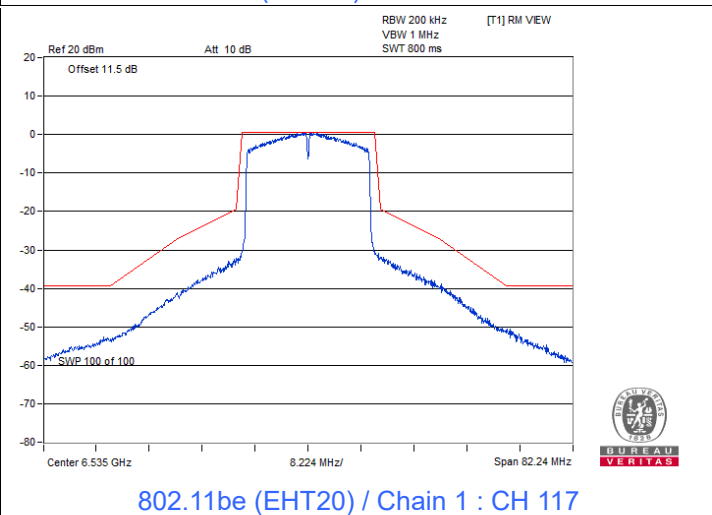
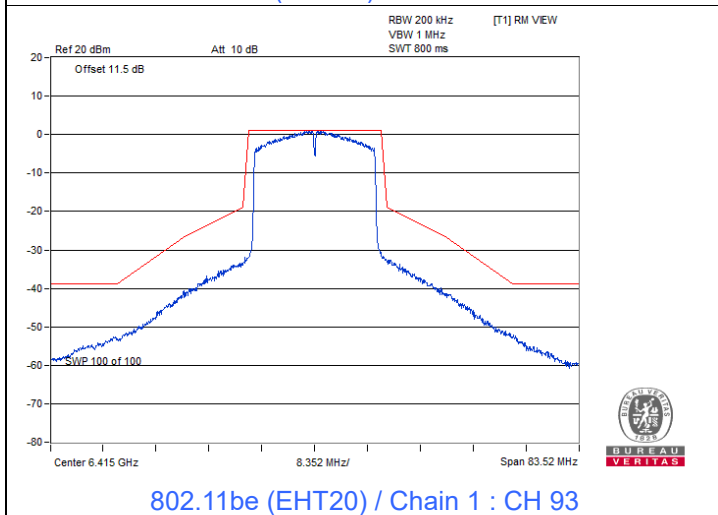
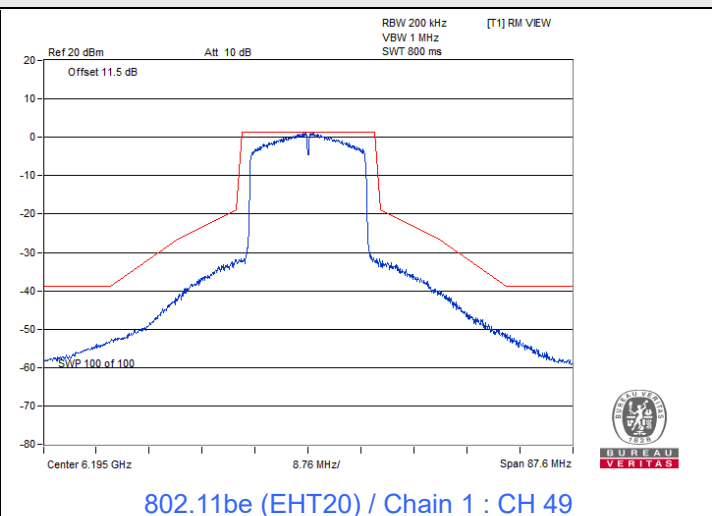
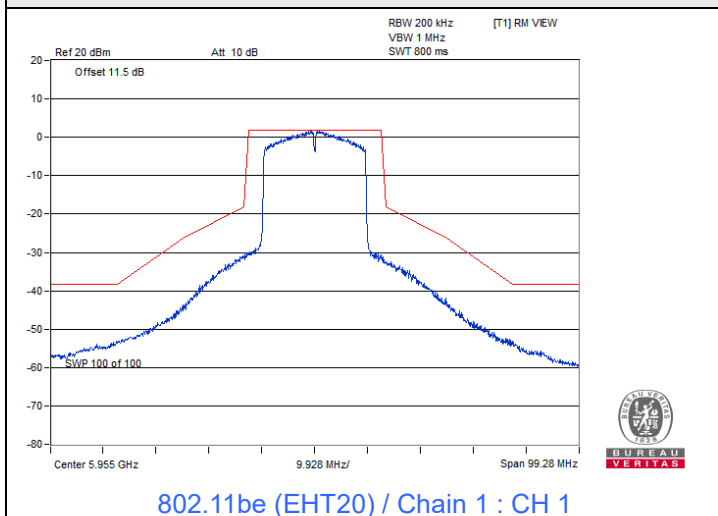


802.11be (EHT20)

Spectrum Plot



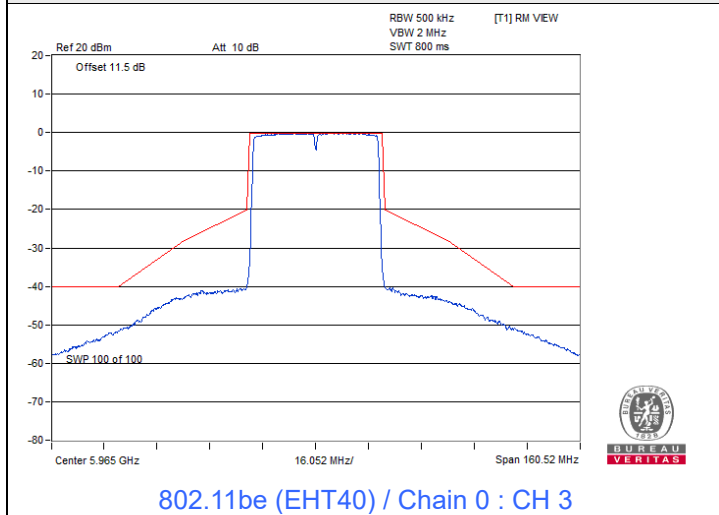
Spectrum Plot



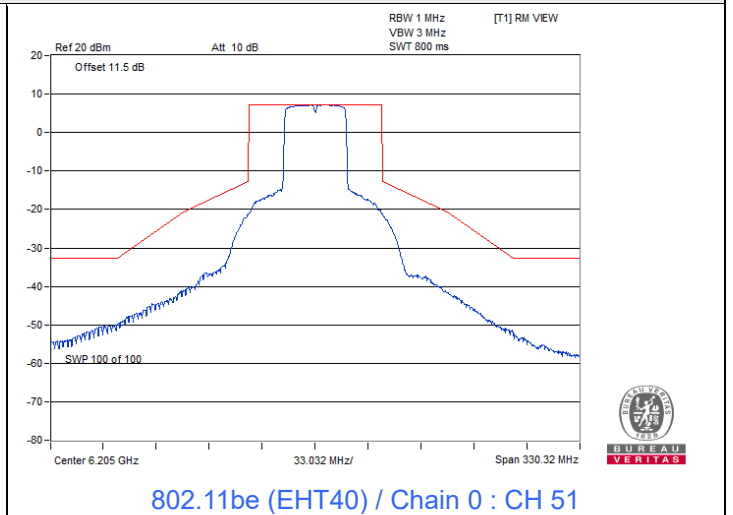


802.11be (EHT40)

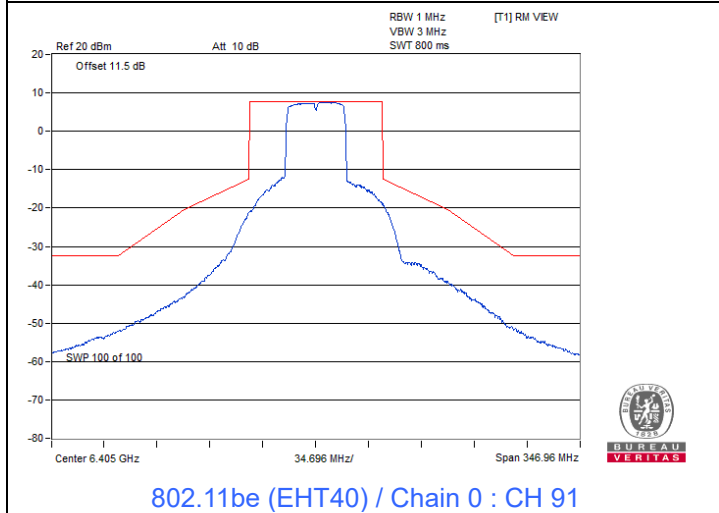
Spectrum Plot



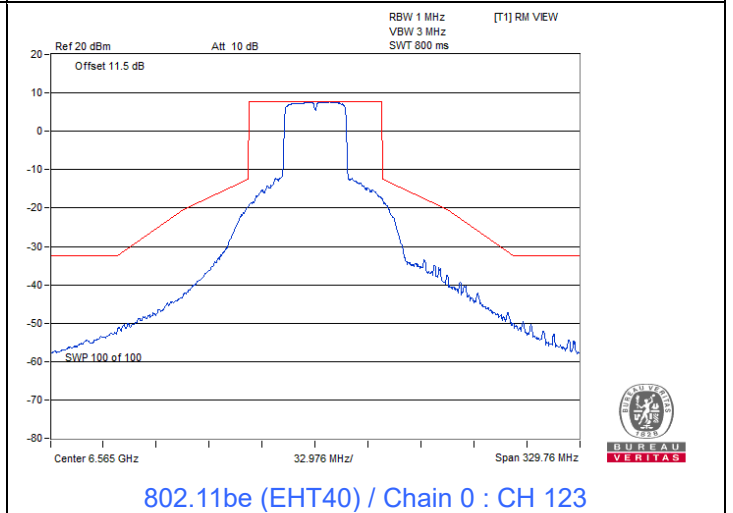
802.11be (EHT40) / Chain 0 : CH 3



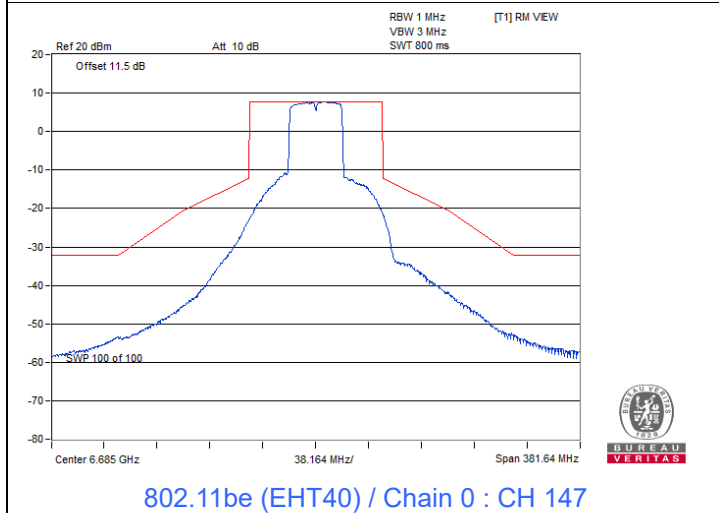
802.11be (EHT40) / Chain 0 : CH 51



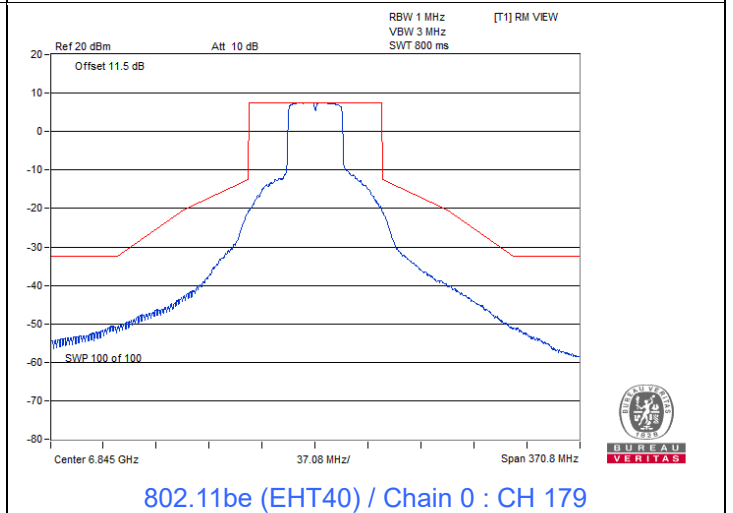
802.11be (EHT40) / Chain 0 : CH 91



802.11be (EHT40) / Chain 0 : CH 123

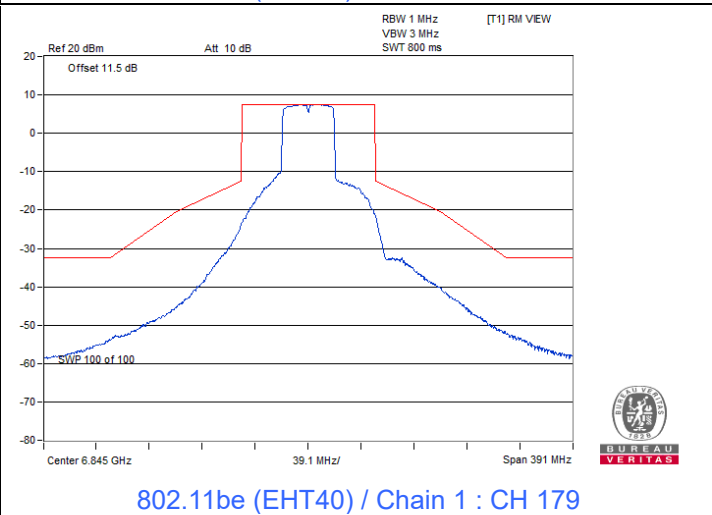
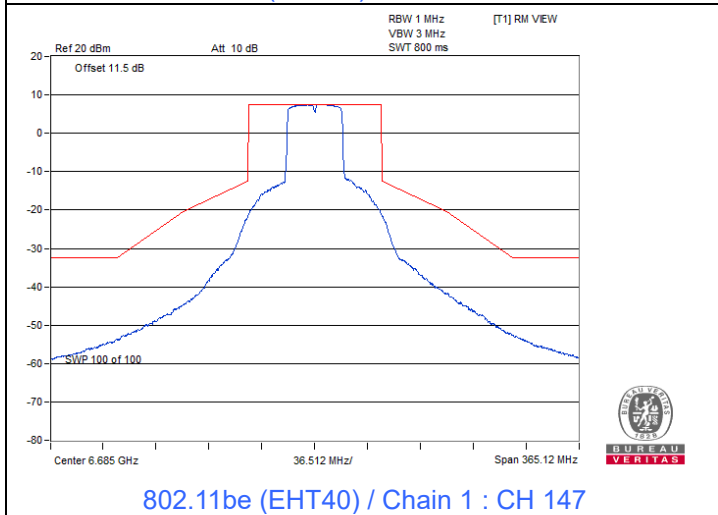
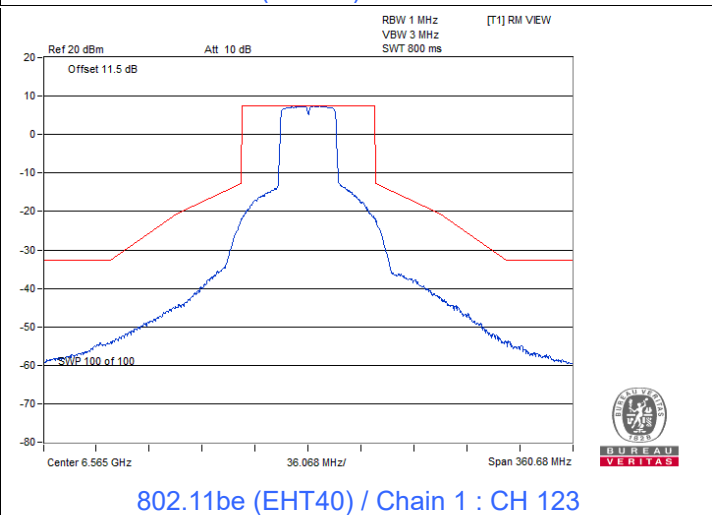
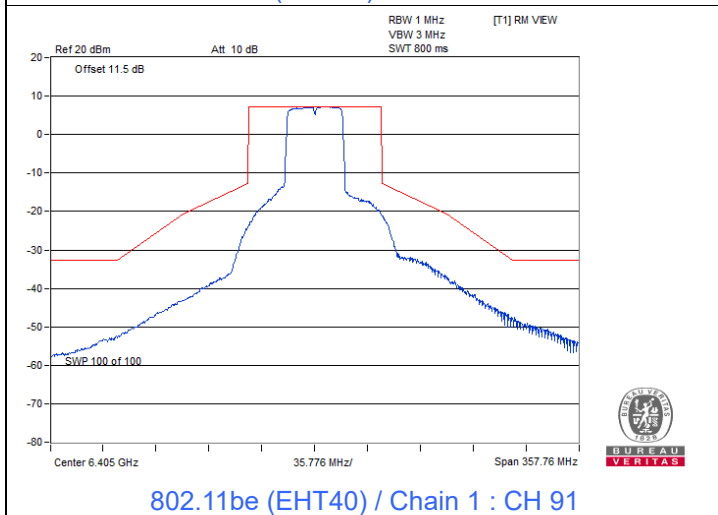
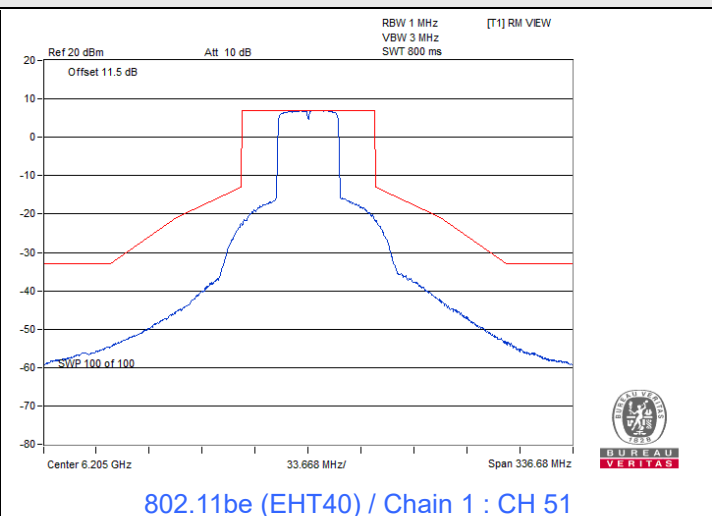
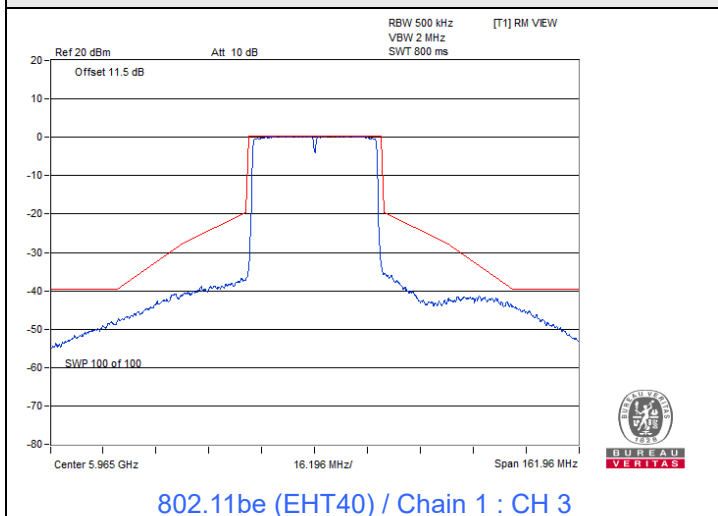


802.11be (EHT40) / Chain 0 : CH 147



802.11be (EHT40) / Chain 0 : CH 179

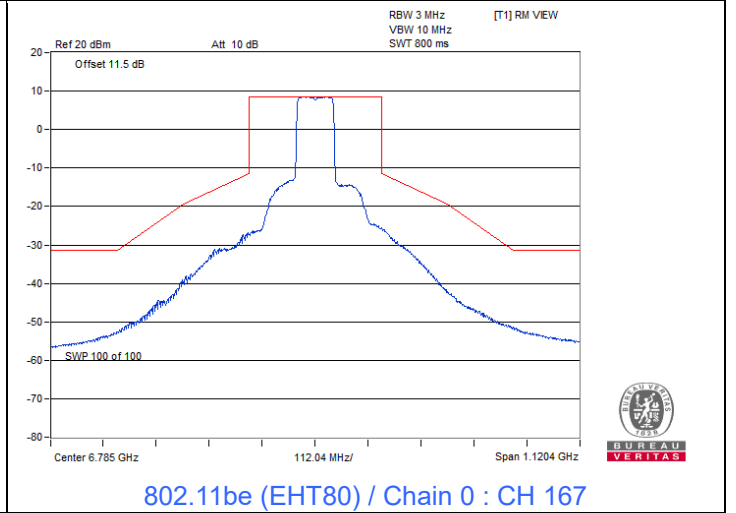
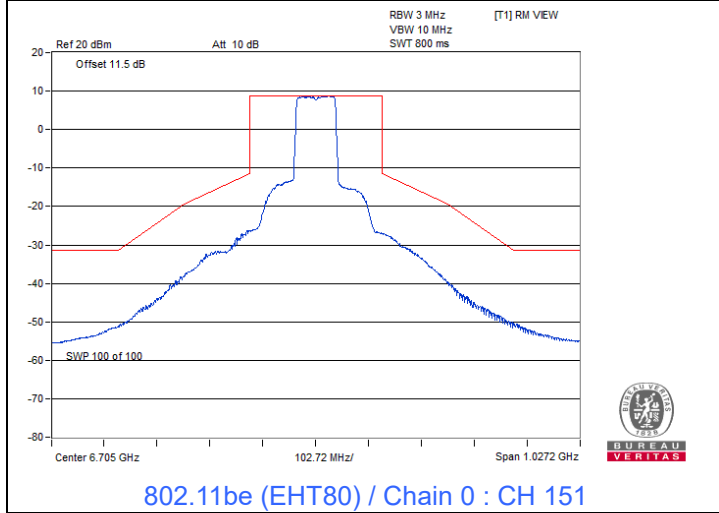
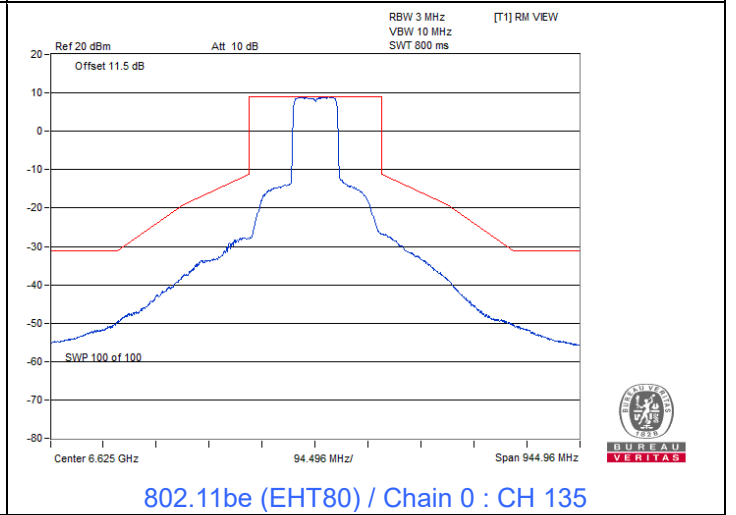
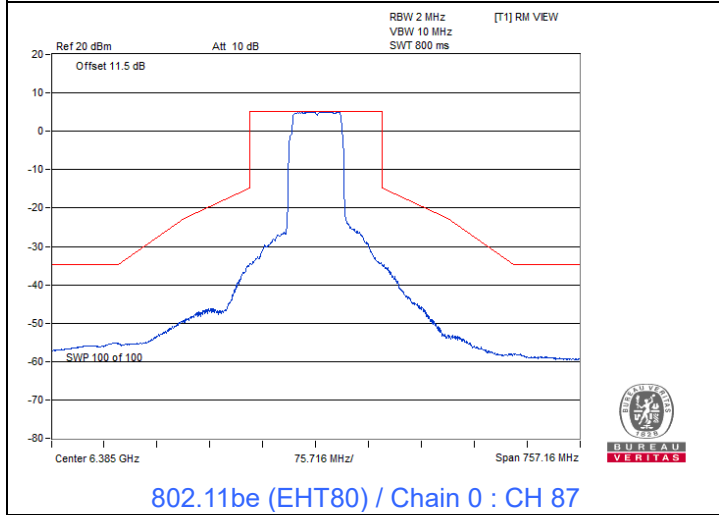
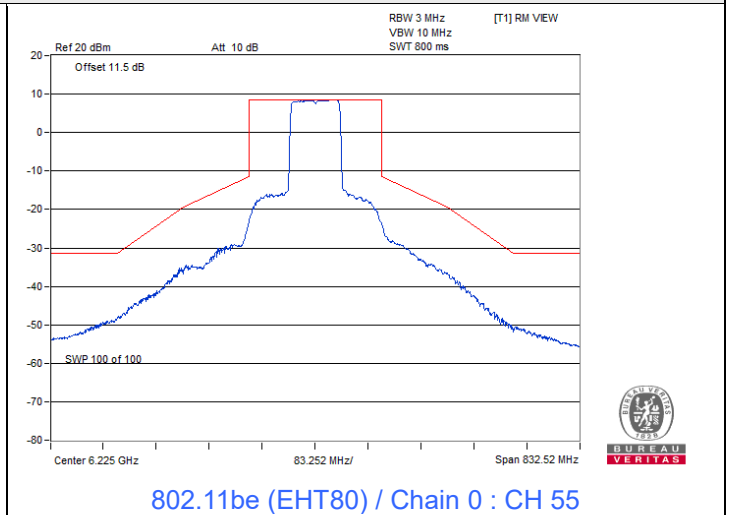
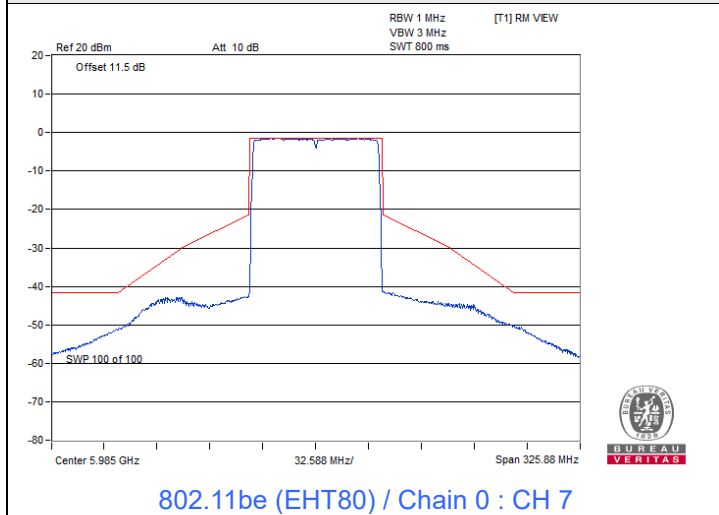
Spectrum Plot





802.11be (EHT80)

Spectrum Plot



Spectrum Plot

