

FCC Test Report

Report No.: RFBHQC-WTW-P22070552-3

FCC ID: XCNUBN2315

Test Model: UBN2315

Received Date: 2022/7/28

Test Date: 2022/11/8 ~ 2022/12/19

Issued Date: 2023/2/3

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

Address: 10F-1, No.5, Taiyuan 1st St. Jhubei Hsinchu, 302, 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: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City
33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty.....	6
2.2 Modification Record.....	6
3 General Information	7
3.1 General Description of EUT.....	7
3.2 Description of Test Modes.....	9
3.2.1 Test Mode Applicability and Tested Channel Detail.....	11
3.3 Duty Cycle of Test Signal.....	14
3.4 Description of Support Units.....	15
3.4.1 Configuration of System under Test.....	15
3.5 General Description of Applied Standards and References.....	16
4 Test Types and Results	17
4.1 Radiated Emission and Bandedge Measurement.....	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement.....	17
4.1.2 Test Instruments.....	18
4.1.3 Test Procedures.....	19
4.1.4 Deviation from Test Standard.....	20
4.1.5 Test Setup.....	20
4.1.6 EUT Operating Conditions.....	21
4.1.7 Test Results.....	22
4.2 In-Band Emission (Mask) Measurement.....	76
4.2.1 Limits of In-Band Emission (Mask) Measurement.....	76
4.2.2 Test Setup.....	76
4.2.3 Test Instruments.....	76
4.2.4 Test Procedure.....	77
4.2.5 EUT Operating Condition.....	77
4.2.6 Test Results.....	78
4.3 Conducted Emission Measurement.....	114
4.3.1 Limits of Conducted Emission Measurement.....	114
4.3.2 Test Instruments.....	114
4.3.3 Test Procedures.....	115
4.3.4 Deviation from Test Standard.....	115
4.3.5 Test Setup.....	115
4.3.6 EUT Operating Conditions.....	115
4.3.7 Test Results.....	116
4.4 Transmit Power Measurement.....	118
4.4.1 Limits of Transmit Power Measurement.....	118
4.4.2 Test Setup.....	118
4.4.3 Test Instruments.....	118
4.4.4 Test Procedure.....	119
4.4.5 Test Result.....	120
4.5 Emission Bandwidth Measurement.....	129
4.5.1 Test Setup.....	129
4.5.2 Test Instruments.....	129
4.5.3 Test Procedure.....	129
4.5.4 Test Result.....	130
4.6 Peak Power Spectral Density Measurement.....	146
4.6.1 Limits of Peak Power Spectral Density Measurement.....	146
4.6.2 Test Setup.....	146
4.6.3 Test Instruments.....	146
4.6.4 Test Procedures.....	147

4.6.5	Deviation from Test Standard	147
4.6.6	EUT Operating Conditions.....	147
4.6.7	Test Results	148
4.7	Contention Based Protocol Measurement	157
4.7.1	Limits of Contention Based Protocol Measurement	157
4.7.2	Test Setup.....	157
4.7.3	Test Instruments	157
4.7.4	Test Procedure	158
4.7.5	EUT Operating Condition	158
4.7.6	Test Results	159
4.8	Frequency Stability.....	171
4.8.1	Limits of Frequency Stability Measurement	171
4.8.2	Test Setup.....	171
4.8.3	Test Instruments	171
4.8.4	Test Procedure	171
4.8.5	Deviation from Test Standard	172
4.8.6	EUT Operating Condition	172
4.8.7	Test Results	172
4.9	Operational Restrictions for 6 GHz U-NII Devices	173
4.9.1	Limits of Operational Restrictions for 6 GHz U-NII Devices.....	173
4.9.2	Test Setup.....	173
4.9.3	Test Instruments	173
4.9.4	Test Procedure	173
4.9.5	Test Results	173
5	Pictures of Test Arrangements.....	174
	Annex A - Band Edge Measurement.....	175
	Appendix – Information of the Testing Laboratories	180

Release Control Record

Issue No.	Description	Date Issued
RFBHQC-WTW-P22070552-3	Original Release	2023/2/3

1 Certificate of Conformity

Product: GPON IAD

Brand: 
altice

Test Model: UBN2315

Sample Status: Mass product

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

Test Date: 2022/11/8 ~ 2022/12/19

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2013

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.

Prepared by : Vera Huang, **Date:** 2023/2/3
Vera Huang / Specialist

Approved by : Jeremy Lin, **Date:** 2023/2/3
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -12.47dB at 0.15000MHz.
15.407(b)(6)(9)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.2dB at 7125.00MHz.
15.407(b)(7)	In-Band Emission (Mask)	Pass	Meet the requirement of limit.
15.407(a)(6)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(6)	Peak Power Spectral Density	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.
15.407(a)(7)(8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	Pass	Declaration by applicant
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30MHz ~ 1000MHz	3.64 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	GPON IAD
Brand	
Test Model	UBN2315
Status of EUT	Mass product
Power Supply Rating	12Vdc from power adapter
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11ax: up to 4803.9Mbps
Operating Frequency	5955 ~ 6415MHz, 6435 ~ 6525MHz, 6535 ~ 6865MHz, 6875 ~ 7115MHz
Number of Channel	802.11a/ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
Output Power	CDD Mode: 5.955 GHz ~ 6.415 GHz: EIRP : 171.396 mW (22.34 dBm) 6.435 GHz ~ 6.525 GHz: EIRP : 138.038 mW (21.40 dBm) 6.535 GHz ~ 6.865 GHz: EIRP : 164.059 mW (22.15 dBm) 6.875 GHz ~ 7.115 GHz: EIRP : 181.97 mW (22.60 dBm) Beamforming Mode: 5.955 GHz ~ 6.415 GHz: EIRP : 260.016 mW (24.15 dBm) 6.435 GHz ~ 6.525 GHz: EIRP : 190.108 mW (22.79 dBm) 6.535 GHz ~ 6.865 GHz: EIRP : 256.448 mW (24.09 dBm) 6.875 GHz ~ 7.115 GHz: EIRP : 257.04 mW (24.10 dBm)
EUT Category	Indoor AP

Note:

1. The EUT has three radios as following table:

Radio 1	Radio 2	Radio 3
WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)

2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)

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

3. The EUT uses following accessories.

AC Adapter		
Brand	Model	Specification
MOSO	MSS-V2500WR120-030E0-US	AC Input : 100-240V~50/60Hz 1.0A max. DC Output : 12V 2.5A DC Output Cable : Non-shielded, without core, 1.8m

4. The EUT incorporates a MIMO function:

6GHz Band		
Modulation Mode	Tx & Rx configuration	
802.11a	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX

Note:

- All of modulation mode support beamforming function except 802.11a modulation mode.
- The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- Partial RU (resource unit) and channel puncturing configurations are not supported.

5. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
1	2.4G Chain 0 / 5G Chain 3	Whayu	N/A	3.5	2.4~2.4835GHz	Dipole	ipex(MHF)
				4	5.15~5.85GHz	Dipole	ipex(MHF)
2	5G Chain 1	Whayu	N/A	3.4	5.15~5.85GHz	Dipole	ipex(MHF)
3	5G Chain 0	Whayu	N/A	3.4	5.15~5.85GHz	Dipole	ipex(MHF)
4	2.4G Chain 1 / 5G Chain 2	Whayu	N/A	3.3	2.4~2.4835GHz	Dipole	ipex(MHF)
				3.8	5.15~5.85GHz	Dipole	ipex(MHF)
5	Chain 4	Whayu	N/A	3.5	5.925~7.125GHz	Dipole	ipex(MHF)
6	Chain 5	Whayu	N/A	3.4	5.925~7.125GHz	Dipole	ipex(MHF)
7	Chain 6	Whayu	N/A	3.4	5.925~7.125GHz	Dipole	ipex(MHF)
8	Chain 7	Whayu	N/A	3.4	5.925~7.125GHz	Dipole	ipex(MHF)

* Detail antenna specification please refer to antenna datasheet or an antenna gain measurement report.

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

U-NII-5:

24 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
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):

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 channel is provided for 802.11ax (HE80):

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):

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

U-NII-6:

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

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):

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

1 channel are provided for 802.11ax (HE80):

Channel	Frequency
103	6465 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
*111	6505 MHz

U-NII-7:

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

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):

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):

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):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

U-NII-8:

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

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):

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 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

Note: * mean this's straddle channel.

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to						Description
	RE \geq 1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	√	√	√	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz
RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission
APCM: Antenna Port Conducted Measurement
IBE: In-Band Emission (MASK)
CBP: Contention Based Protocol

Note: The EUT is designed to be positioned on the Z-plane only.

Radiated Emission Measurement (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6535-6865	117 to 185	117, 149, 181, 185	OFDM	BPSK	6Mb/s
	6875-7115	189 to 233	209, 233	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6865	117 to 185	117, 149, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	209, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6535-6865	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0
	6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6535-6865	135 to 183	151, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6535-6865	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Radiated Emission Measurement (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE160)	5955-6415	15 to 79	79	OFDMA	BPSK	MCS0
	6435-6525	111		OFDMA	BPSK	MCS0
	6535-6865	143 to 175		OFDMA	BPSK	MCS0
	6875-7115	207		OFDMA	BPSK	MCS0

In-Band Emission (MASK) Measurement:

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6535-6865	117 to 185	117, 149, 181, 185	OFDM	BPSK	6Mb/s
	6875-7115	189 to 233	209, 233	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6865	117 to 185	117, 149, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	209, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6535-6865	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0
	6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6535-6865	135 to 183	151, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6535-6865	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE160)	5955-6415	15 to 79	79	OFDMA	BPSK	MCS0
	6435-6525	111		OFDMA	BPSK	MCS0
	6535-6865	143 to 175		OFDMA	BPSK	MCS0
	6875-7115	207		OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6535-6865	117 to 185	117, 149, 181, 185	OFDM	BPSK	6Mb/s
	6875-7115	189 to 233	209, 233	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6865	117 to 185	117, 149, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	209, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6535-6865	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0
	6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6535-6865	135 to 183	151, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6535-6865	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Contention Based Protocol Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	45	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	105	OFDMA	BPSK	MCS0
	6535-6865	117 to 185	149	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	209	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	47	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6535-6865	143 to 175	143	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

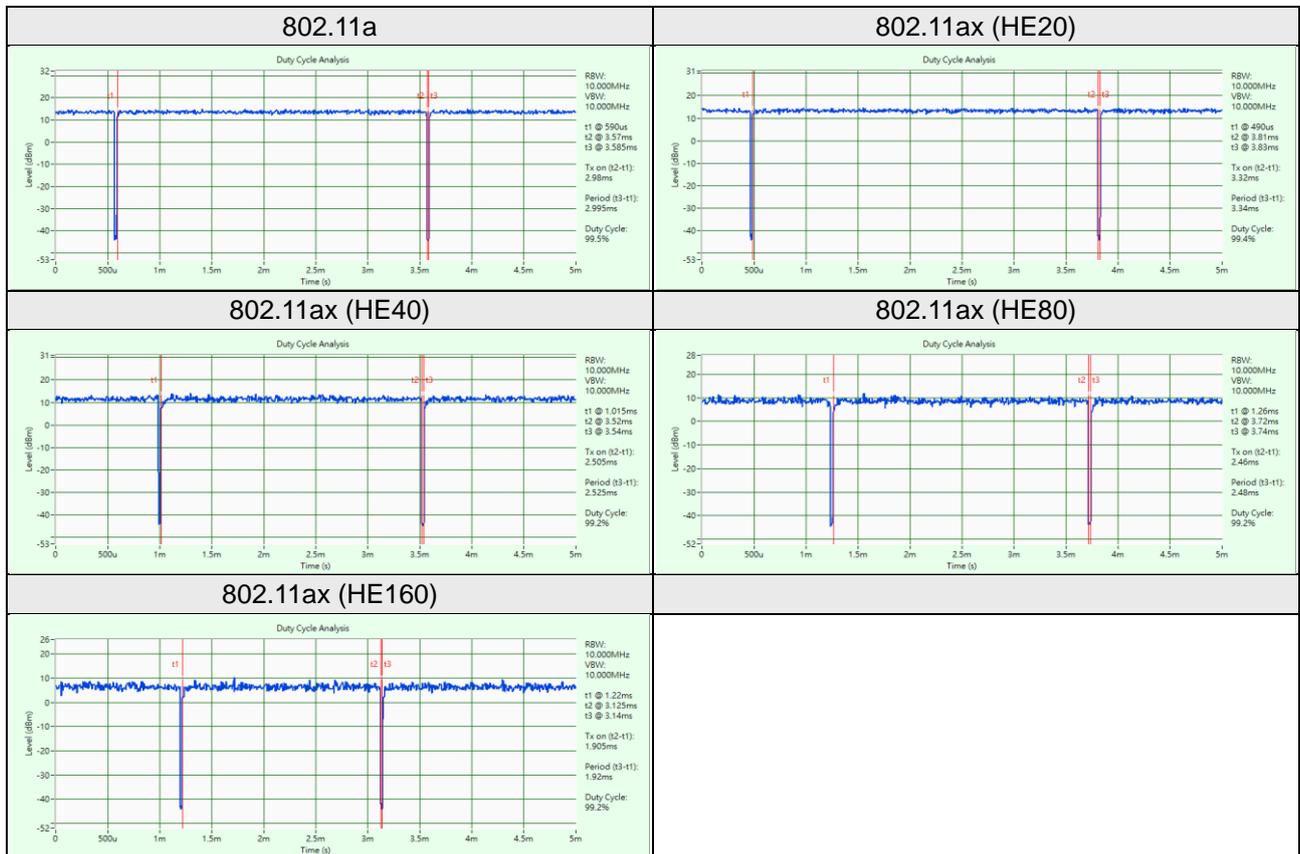
Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE \geq 1G	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu
PLC	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Jisyong Wang

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

- 802.11a: Duty cycle = 2.98ms/2.995ms = 0.995
- 802.11ax (HE20): Duty cycle = 3.32ms/3.34ms = 0.994
- 802.11ax (HE40): Duty cycle = 2.505ms/2.525ms = 0.992
- 802.11ax (HE80): Duty cycle = 2.46ms/2.48ms = 0.992
- 802.11ax (HE160): Duty cycle = 1.905ms/1.92ms = 0.992



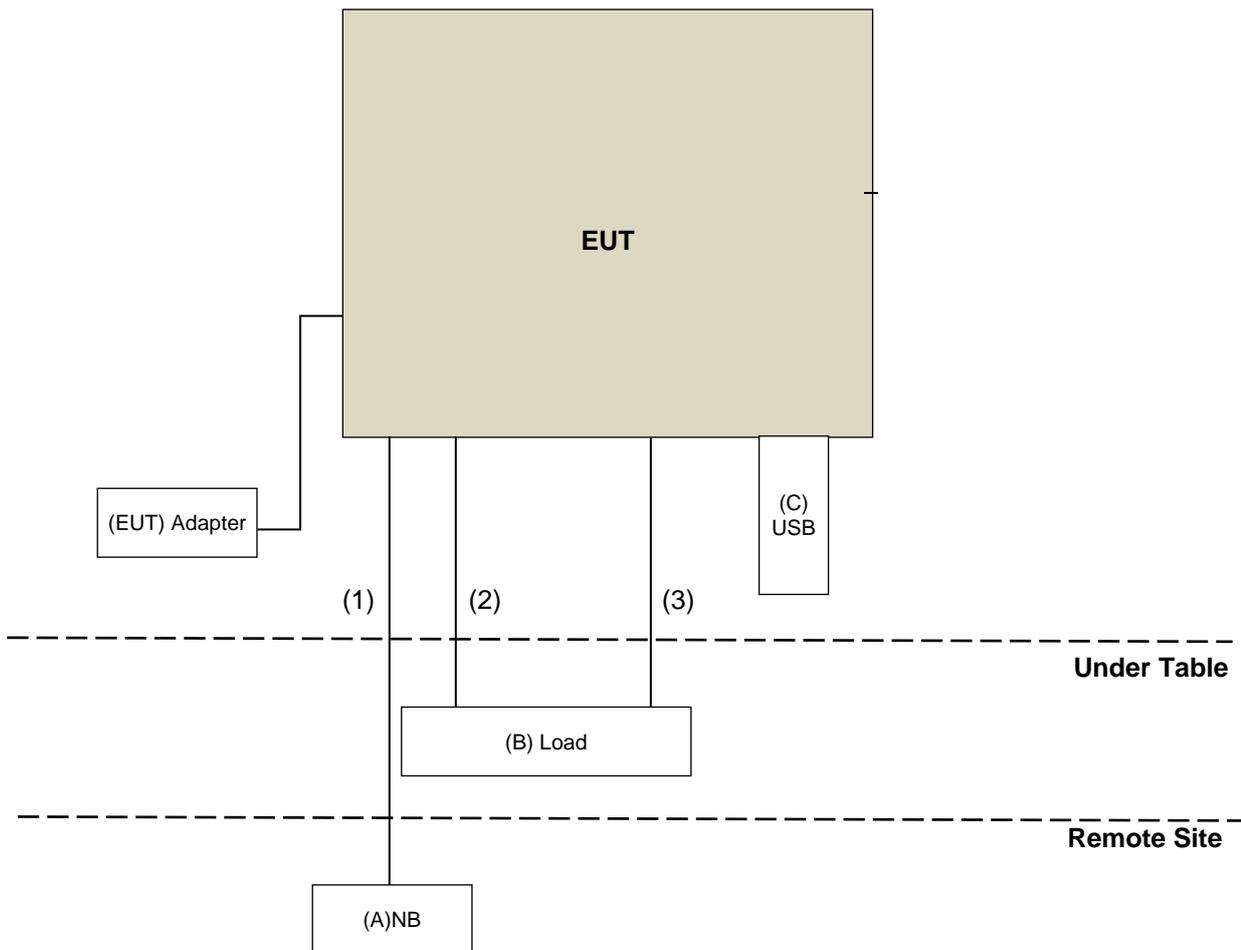
3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E5430	2RL3YW1	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	USB Flash	Sandisk	SDDDC3-032G	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	10	No	0	Provided by Lab
2	RJ-45 Cable	3	1	No	0	Provided by Lab
3	RJ-11 Cable	2	1.5	No	0	Provided by Lab

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Note:

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 1000MHz, 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 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

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

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver R&S	ESCI	100424	2021/12/30	2022/12/29
Spectrum Analyzer R&S	FSW43	101582	2022/4/13	2023/4/12
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
Pre_Amplifier Agilent	8447D	2944A10631	2022/5/14	2023/5/13
Bi_Log Antenna Schwarzbeck	VULB9168	9168-155	2022/10/21	2023/10/20
RF Coaxial Cable WOKEN	8D-FB	Cable-CH4-01	2022/7/9	2023/7/8
Horn Antenna Schwarzbeck	9120D	9120D-408	2021/11/14	2022/11/13
			2022/11/13	2023/11/12
Pre_Amplifier KEYSIGHT	83017A	MY53270295	2022/5/14	2023/5/13
RF cable HUBER+SUHNER	Sucoflex 104	MY 13380+295012/04	2022/5/14	2023/5/13
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	2022/5/14	2023/5/13
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2022/10/20	2023/10/19
Boresight antenna tower fixture BV	BAF-02	5	NA	NA
Horn Antenna Schwarzbeck	BBHA 9170	9170-480	2021/11/14	2022/11/13
			2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170243	2021/11/14	2022/11/13
			2022/11/13	2023/11/12
RF Coaxial Cable EMCI	EMC102-KM-KM- 3000	150929	2022/7/9	2023/7/8
RF Coaxial Cable EMCI	EMC102-KM-KM- 600	150928	2022/7/9	2023/7/8

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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.
- f. The test-receiver system was set to peak and average detect 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.

Note:

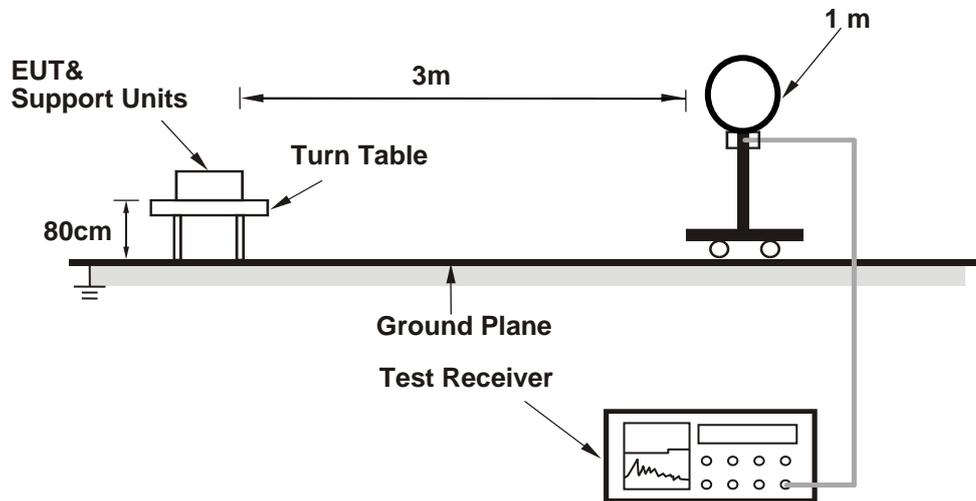
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz. (RBW = 1MHz, VBW = 10Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

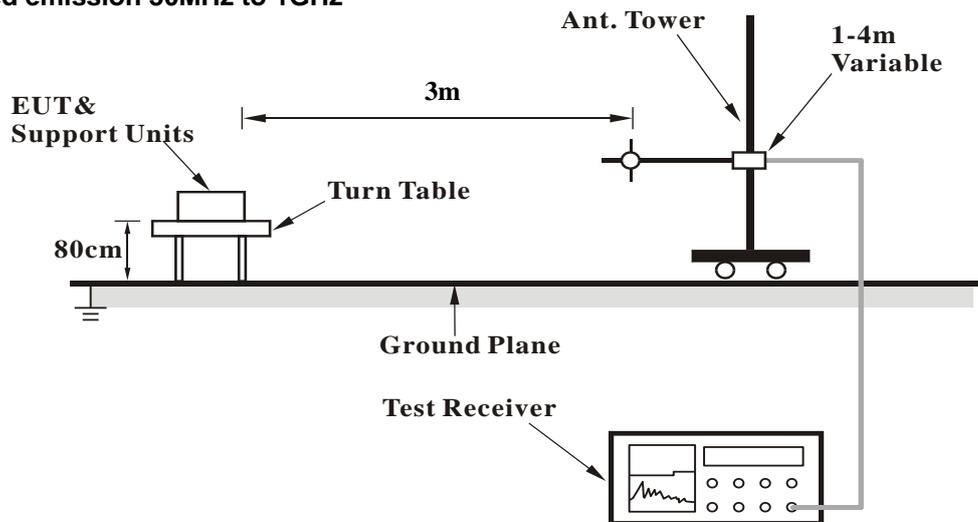
No deviation.

4.1.5 Test Setup

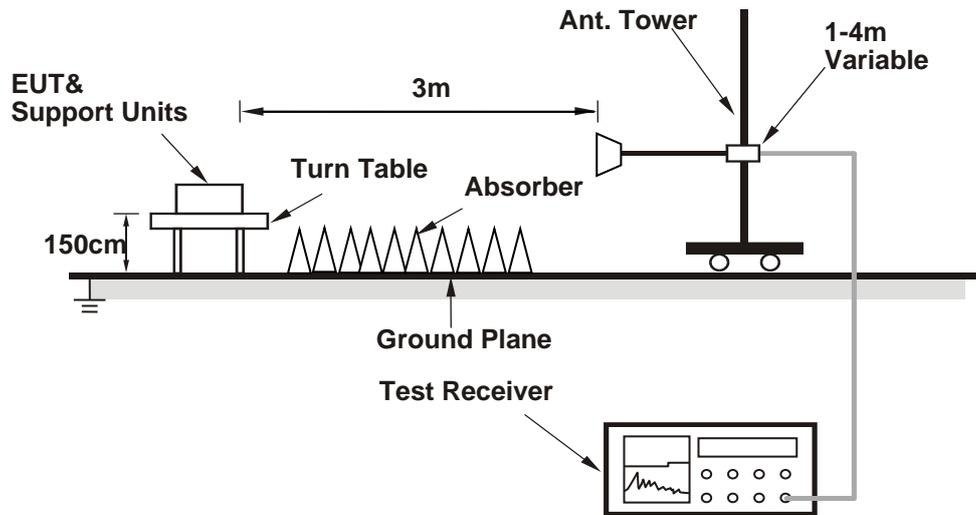
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

CDD Mode

Above 1GHz data:

RF Mode	TX 802.11a 6G	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	61.5 PK	88.2	-26.7	1.52 H	255	47.6	13.9
2	#5925.00	48.3 AV	68.2	-19.9	1.52 H	255	34.4	13.9
3	*5955.00	109.7 PK			1.52 H	255	65.4	44.3
4	*5955.00	100.1 AV			1.52 H	255	55.8	44.3
5	11910.00	62.4 PK	74.0	-11.6	1.55 H	275	40.6	21.8
6	11910.00	49.5 AV	54.0	-4.5	1.55 H	275	27.7	21.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	61.4 PK	88.2	-26.8	2.86 V	34	47.5	13.9
2	#5925.00	48.1 AV	68.2	-20.1	2.86 V	34	34.2	13.9
3	*5955.00	104.6 PK			2.86 V	34	60.3	44.3
4	*5955.00	95.3 AV			2.86 V	34	51.0	44.3
5	11910.00	62.0 PK	74.0	-12.0	1.95 V	285	40.2	21.8
6	11910.00	49.2 AV	54.0	-4.8	1.95 V	285	27.4	21.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	109.3 PK			2.01 H	308	64.8	44.5
2	*6175.00	100.4 AV			2.01 H	308	55.9	44.5
3	12350.00	62.2 PK	74.0	-11.8	1.57 H	277	40.5	21.7
4	12350.00	49.3 AV	54.0	-4.7	1.57 H	277	27.6	21.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	104.9 PK			3.00 V	42	60.4	44.5
2	*6175.00	95.3 AV			3.00 V	42	50.8	44.5
3	12350.00	61.9 PK	74.0	-12.1	1.95 V	289	40.2	21.7
4	12350.00	49.0 AV	54.0	-5.0	1.95 V	289	27.3	21.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a 6G	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	110.3 PK			2.04 H	250	64.7	45.6
2	*6415.00	100.9 AV			2.04 H	250	55.3	45.6
3	#12830.00	63.7 PK	88.2	-24.5	1.59 H	268	40.5	23.2
4	#12830.00	50.7 AV	68.2	-17.5	1.59 H	268	27.5	23.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	105.4 PK			2.84 V	42	59.8	45.6
2	*6415.00	95.6 AV			2.84 V	42	50.0	45.6
3	#12830.00	63.4 PK	88.2	-24.8	1.89 V	279	40.2	23.2
4	#12830.00	50.5 AV	68.2	-17.7	1.89 V	279	27.3	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	109.0 PK			2.27 H	345	63.2	45.8
2	*6435.00	99.6 AV			2.27 H	345	53.8	45.8
3	#12870.00	63.9 PK	88.2	-24.3	1.45 H	282	40.5	23.4
4	#12870.00	50.9 AV	68.2	-17.3	1.45 H	282	27.5	23.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	105.7 PK			3.92 V	77	59.9	45.8
2	*6435.00	95.8 AV			3.92 V	77	50.0	45.8
3	#12870.00	63.6 PK	88.2	-24.6	1.96 V	278	40.2	23.4
4	#12870.00	50.6 AV	68.2	-17.6	1.96 V	278	27.2	23.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	110.6 PK			2.35 H	345	64.5	46.1
2	*6475.00	100.5 AV			2.35 H	345	54.4	46.1
3	#12950.00	63.7 PK	88.2	-24.5	1.47 H	285	40.4	23.3
4	#12950.00	50.9 AV	68.2	-17.3	1.47 H	285	27.6	23.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	106.3 PK			3.95 V	72	60.2	46.1
2	*6475.00	96.3 AV			3.95 V	72	50.2	46.1
3	#12950.00	63.5 PK	88.2	-24.7	1.89 V	285	40.2	23.3
4	#12950.00	50.8 AV	68.2	-17.4	1.89 V	285	27.5	23.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	109.9 PK			2.35 H	341	63.5	46.4
2	*6515.00	100.5 AV			2.35 H	341	54.1	46.4
3	#13030.00	63.5 PK	88.2	-24.7	1.47 H	286	40.4	23.1
4	#13030.00	50.5 AV	68.2	-17.7	1.47 H	286	27.4	23.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	106.5 PK			3.99 V	77	60.1	46.4
2	*6515.00	96.6 AV			3.99 V	77	50.2	46.4
3	#13030.00	63.3 PK	88.2	-24.9	1.89 V	286	40.2	23.1
4	#13030.00	50.2 AV	68.2	-18.0	1.89 V	286	27.1	23.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	110.5 PK			2.42 H	315	64.0	46.5
2	*6535.00	100.6 AV			2.42 H	315	54.1	46.5
3	#13070.00	63.5 PK	88.2	-24.7	1.65 H	278	40.5	23.0
4	#13070.00	50.5 AV	68.2	-17.7	1.65 H	278	27.5	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	106.8 PK			3.93 V	76	60.3	46.5
2	*6535.00	97.1 AV			3.93 V	76	50.6	46.5
3	#13070.00	63.2 PK	88.2	-25.0	1.93 V	292	40.2	23.0
4	#13070.00	50.2 AV	68.2	-18.0	1.93 V	292	27.2	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 149 : 6695 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	110.1 PK			2.44 H	322	64.0	46.1
2	*6695.00	100.7 AV			2.44 H	322	54.6	46.1
3	13390.00	64.7 PK	74.0	-9.3	1.62 H	275	40.4	24.3
4	13390.00	51.8 AV	54.0	-2.2	1.62 H	275	27.5	24.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	105.9 PK			3.93 V	73	59.8	46.1
2	*6695.00	96.0 AV			3.93 V	73	49.9	46.1
3	13390.00	64.5 PK	74.0	-9.5	1.92 V	298	40.2	24.3
4	13390.00	51.6 AV	54.0	-2.4	1.92 V	298	27.3	24.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a 6G	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	109.8 PK			2.43 H	325	63.0	46.8
2	*6855.00	100.3 AV			2.43 H	325	53.5	46.8
3	#13710.00	65.0 PK	88.2	-23.2	1.63 H	276	40.5	24.5
4	#13710.00	52.1 AV	68.2	-16.1	1.63 H	276	27.6	24.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	106.1 PK			3.91 V	246	59.3	46.8
2	*6855.00	96.1 AV			3.91 V	246	49.3	46.8
3	#13710.00	64.8 PK	88.2	-23.4	1.88 V	289	40.3	24.5
4	#13710.00	51.8 AV	68.2	-16.4	1.88 V	289	27.3	24.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	109.8 PK			2.27 H	323	63.0	46.8
2	*6875.00	100.5 AV			2.27 H	323	53.7	46.8
3	#13750.00	65.2 PK	88.2	-23.0	1.45 H	282	40.5	24.7
4	#13750.00	52.2 AV	68.2	-16.0	1.45 H	282	27.5	24.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	106.7 PK			3.94 V	249	59.9	46.8
2	*6875.00	96.8 AV			3.94 V	249	50.0	46.8
3	#13750.00	64.9 PK	88.2	-23.3	1.89 V	284	40.2	24.7
4	#13750.00	51.9 AV	68.2	-16.3	1.89 V	284	27.2	24.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 209 : 6995 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6995.00	110.7 PK			2.27 H	323	62.9	47.8
2	*6995.00	101.2 AV			2.27 H	323	53.4	47.8
3	#13990.00	66.0 PK	88.2	-22.2	1.48 H	286	40.4	25.6
4	#13990.00	53.2 AV	68.2	-15.0	1.48 H	286	27.6	25.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6995.00	106.7 PK			3.94 V	257	58.9	47.8
2	*6995.00	97.4 AV			3.94 V	257	49.6	47.8
3	#13990.00	65.8 PK	88.2	-22.4	1.96 V	293	40.2	25.6
4	#13990.00	52.9 AV	68.2	-15.3	1.96 V	293	27.3	25.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	106.0 PK			2.49 H	335	58.0	48.0
2	*7115.00	97.0 AV			2.49 H	335	49.0	48.0
3	#7125.00	88.0 PK	88.2	-0.2	2.49 H	335	71.5	16.5
4	#7125.00	63.9 AV	68.2	-4.3	2.49 H	335	47.4	16.5
5	#14230.00	66.1 PK	88.2	-22.1	1.42 H	279	40.2	25.9
6	#14230.00	52.8 AV	68.2	-15.4	1.42 H	279	26.9	25.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	100.8 PK			3.94 V	260	52.8	48.0
2	*7115.00	91.5 AV			3.94 V	260	43.5	48.0
3	#7125.00	81.7 PK	88.2	-6.5	3.94 V	260	65.2	16.5
4	#7125.00	61.2 AV	68.2	-7.0	3.94 V	260	44.7	16.5
5	#14230.00	65.9 PK	88.2	-22.3	1.91 V	295	40.0	25.9
6	#14230.00	52.6 AV	68.2	-15.6	1.91 V	295	26.7	25.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	61.6 PK	88.2	-26.6	2.07 H	316	47.7	13.9
2	#5925.00	48.4 AV	68.2	-19.8	2.07 H	316	34.5	13.9
3	*5955.00	112.1 PK			2.07 H	316	67.8	44.3
4	*5955.00	100.4 AV			2.07 H	316	56.1	44.3
5	11910.00	62.2 PK	74.0	-11.8	1.59 H	277	40.4	21.8
6	11910.00	49.4 AV	54.0	-4.6	1.59 H	277	27.6	21.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	61.4 PK	88.2	-26.8	3.10 V	278	47.5	13.9
2	#5925.00	48.1 AV	68.2	-20.1	3.10 V	278	34.2	13.9
3	*5955.00	106.2 PK			3.10 V	278	61.9	44.3
4	*5955.00	93.6 AV			3.10 V	278	49.3	44.3
5	11910.00	62.0 PK	74.0	-12.0	1.95 V	289	40.2	21.8
6	11910.00	49.3 AV	54.0	-4.7	1.95 V	289	27.5	21.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	111.7 PK			2.07 H	318	67.2	44.5
2	*6175.00	100.2 AV			2.07 H	318	55.7	44.5
3	12350.00	62.1 PK	74.0	-11.9	1.57 H	269	40.4	21.7
4	12350.00	49.1 AV	54.0	-4.9	1.57 H	269	27.4	21.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	107.4 PK			2.99 V	43	62.9	44.5
2	*6175.00	95.4 AV			2.99 V	43	50.9	44.5
3	12350.00	61.9 PK	74.0	-12.1	1.99 V	287	40.2	21.7
4	12350.00	48.9 AV	54.0	-5.1	1.99 V	287	27.2	21.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE20)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	111.0 PK			2.03 H	250	65.4	45.6
2	*6415.00	100.7 AV			2.03 H	250	55.1	45.6
3	#12830.00	63.7 PK	88.2	-24.5	1.56 H	266	40.5	23.2
4	#12830.00	50.7 AV	68.2	-17.5	1.56 H	266	27.5	23.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	108.5 PK			3.03 V	41	62.9	45.6
2	*6415.00	95.9 AV			3.03 V	41	50.3	45.6
3	#12830.00	63.5 PK	88.2	-24.7	1.95 V	284	40.3	23.2
4	#12830.00	50.4 AV	68.2	-17.8	1.95 V	284	27.2	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	112.7 PK			2.41 H	342	66.9	45.8
2	*6435.00	101.0 AV			2.41 H	342	55.2	45.8
3	#12870.00	63.8 PK	88.2	-24.4	1.48 H	281	40.4	23.4
4	#12870.00	51.0 AV	68.2	-17.2	1.48 H	281	27.6	23.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	108.4 PK			3.97 V	69	62.6	45.8
2	*6435.00	96.5 AV			3.97 V	69	50.7	45.8
3	#12870.00	63.6 PK	88.2	-24.6	1.99 V	288	40.2	23.4
4	#12870.00	50.9 AV	68.2	-17.3	1.99 V	288	27.5	23.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	112.1 PK			2.35 H	337	66.0	46.1
2	*6475.00	100.6 AV			2.35 H	337	54.5	46.1
3	#12950.00	63.9 PK	88.2	-24.3	1.47 H	278	40.6	23.3
4	#12950.00	50.9 AV	68.2	-17.3	1.47 H	278	27.6	23.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	108.7 PK			3.97 V	72	62.6	46.1
2	*6475.00	96.8 AV			3.97 V	72	50.7	46.1
3	#12950.00	63.6 PK	88.2	-24.6	1.89 V	289	40.3	23.3
4	#12950.00	50.6 AV	68.2	-17.6	1.89 V	289	27.3	23.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	113.2 PK			2.36 H	339	66.8	46.4
2	*6515.00	101.0 AV			2.36 H	339	54.6	46.4
3	#13030.00	63.5 PK	88.2	-24.7	1.49 H	279	40.4	23.1
4	#13030.00	50.4 AV	68.2	-17.8	1.49 H	279	27.3	23.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	108.9 PK			3.94 V	76	62.5	46.4
2	*6515.00	97.1 AV			3.94 V	76	50.7	46.4
3	#13030.00	63.3 PK	88.2	-24.9	1.89 V	286	40.2	23.1
4	#13030.00	50.2 AV	68.2	-18.0	1.89 V	286	27.1	23.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	111.7 PK			2.38 H	312	65.2	46.5
2	*6535.00	101.3 AV			2.38 H	312	54.8	46.5
3	#13070.00	63.2 PK	88.2	-25.0	1.62 H	275	40.2	23.0
4	#13070.00	50.3 AV	68.2	-17.9	1.62 H	275	27.3	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	108.3 PK			3.91 V	76	61.8	46.5
2	*6535.00	96.9 AV			3.91 V	76	50.4	46.5
3	#13070.00	63.0 PK	88.2	-25.2	1.96 V	287	40.0	23.0
4	#13070.00	50.0 AV	68.2	-18.2	1.96 V	287	27.0	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 6695 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	111.8 PK			2.38 H	312	65.7	46.1
2	*6695.00	100.1 AV			2.38 H	312	54.0	46.1
3	13390.00	64.5 PK	74.0	-9.5	1.63 H	276	40.2	24.3
4	13390.00	51.7 AV	54.0	-2.3	1.63 H	276	27.4	24.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	106.9 PK			3.91 V	72	60.8	46.1
2	*6695.00	95.4 AV			3.91 V	72	49.3	46.1
3	13390.00	64.3 PK	74.0	-9.7	1.87 V	287	40.0	24.3
4	13390.00	51.6 AV	54.0	-2.4	1.87 V	287	27.3	24.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE20)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	112.0 PK			2.42 H	325	65.2	46.8
2	*6855.00	99.9 AV			2.42 H	325	53.1	46.8
3	#13710.00	64.7 PK	88.2	-23.5	1.59 H	275	40.2	24.5
4	#13710.00	51.7 AV	68.2	-16.5	1.59 H	275	27.2	24.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	109.6 PK			3.89 V	260	62.8	46.8
2	*6855.00	97.3 AV			3.89 V	260	50.5	46.8
3	#13710.00	64.5 PK	88.2	-23.7	1.86 V	285	40.0	24.5
4	#13710.00	51.5 AV	68.2	-16.7	1.86 V	285	27.0	24.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	111.9 PK			2.51 H	328	65.1	46.8
2	*6875.00	100.6 AV			2.51 H	328	53.8	46.8
3	#13750.00	65.2 PK	88.2	-23.0	1.45 H	277	40.5	24.7
4	#13750.00	52.1 AV	68.2	-16.1	1.45 H	277	27.4	24.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	109.3 PK			3.94 V	255	62.5	46.8
2	*6875.00	97.2 AV			3.94 V	255	50.4	46.8
3	#13750.00	64.9 PK	88.2	-23.3	1.89 V	288	40.2	24.7
4	#13750.00	51.8 AV	68.2	-16.4	1.89 V	288	27.1	24.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 209 : 6995 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6995.00	112.8 PK			2.51 H	334	65.0	47.8
2	*6995.00	101.1 AV			2.51 H	334	53.3	47.8
3	#13990.00	66.1 PK	88.2	-22.1	1.44 H	277	40.5	25.6
4	#13990.00	53.1 AV	68.2	-15.1	1.44 H	277	27.5	25.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6995.00	108.7 PK			3.95 V	256	60.9	47.8
2	*6995.00	97.2 AV			3.95 V	256	49.4	47.8
3	#13990.00	65.9 PK	88.2	-22.3	1.92 V	292	40.3	25.6
4	#13990.00	52.8 AV	68.2	-15.4	1.92 V	292	27.2	25.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	103.4 PK			2.52 H	344	55.4	48.0
2	*7115.00	91.3 AV			2.52 H	344	43.3	48.0
3	#7125.00	84.7 PK	88.2	-3.5	2.52 H	344	68.2	16.5
4	#7125.00	67.9 AV	68.2	-0.3	2.52 H	344	51.4	16.5
5	#14230.00	65.7 PK	88.2	-22.5	1.45 H	275	39.8	25.9
6	#14230.00	52.4 AV	68.2	-15.8	1.45 H	275	26.5	25.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	98.5 PK			3.95 V	259	50.5	48.0
2	*7115.00	86.2 AV			3.95 V	259	38.2	48.0
3	#7125.00	78.6 PK	88.2	-9.6	3.95 V	259	62.1	16.5
4	#7125.00	60.7 AV	68.2	-7.5	3.95 V	259	44.2	16.5
5	#14230.00	65.4 PK	88.2	-22.8	1.89 V	287	39.5	25.9
6	#14230.00	52.1 AV	68.2	-16.1	1.89 V	287	26.2	25.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 3 : 5965 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	62.0 PK	88.2	-26.2	2.13 H	318	48.1	13.9
2	#5925.00	49.5 AV	68.2	-18.7	2.13 H	318	35.6	13.9
3	*5965.00	113.0 PK			2.13 H	318	68.7	44.3
4	*5965.00	100.4 AV			2.13 H	318	56.1	44.3
5	11930.00	61.9 PK	74.0	-12.1	1.49 H	277	40.0	21.9
6	11930.00	48.7 AV	54.0	-5.3	1.49 H	277	26.8	21.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	61.7 PK	88.2	-26.5	3.74 V	278	47.8	13.9
2	#5925.00	49.1 AV	68.2	-19.1	3.74 V	278	35.2	13.9
3	*5965.00	106.8 PK			3.74 V	278	62.5	44.3
4	*5965.00	94.2 AV			3.74 V	278	49.9	44.3
5	11930.00	61.6 PK	74.0	-12.4	1.89 V	285	39.7	21.9
6	11930.00	48.4 AV	54.0	-5.6	1.89 V	285	26.5	21.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 43 : 6165 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6165.00	113.3 PK			2.16 H	319	68.7	44.6
2	*6165.00	100.5 AV			2.16 H	319	55.9	44.6
3	12330.00	61.8 PK	74.0	-12.2	1.55 H	275	40.0	21.8
4	12330.00	48.7 AV	54.0	-5.3	1.55 H	275	26.9	21.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6165.00	108.4 PK			3.80 V	203	63.8	44.6
2	*6165.00	96.1 AV			3.80 V	203	51.5	44.6
3	12330.00	61.6 PK	74.0	-12.4	1.96 V	285	39.8	21.8
4	12330.00	48.5 AV	54.0	-5.5	1.96 V	285	26.7	21.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE40)	Channel	CH 91 : 6405 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	114.0 PK			2.10 H	359	68.5	45.5
2	*6405.00	101.4 AV			2.10 H	359	55.9	45.5
3	#12810.00	63.3 PK	88.2	-24.9	1.59 H	278	40.1	23.2
4	#12810.00	50.0 AV	68.2	-18.2	1.59 H	278	26.8	23.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	109.3 PK			3.82 V	194	63.8	45.5
2	*6405.00	96.2 AV			3.82 V	194	50.7	45.5
3	#12810.00	63.0 PK	88.2	-25.2	1.96 V	286	39.8	23.2
4	#12810.00	49.9 AV	68.2	-18.3	1.96 V	286	26.7	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 99 : 6445 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	113.7 PK			2.34 H	341	67.8	45.9
2	*6445.00	100.7 AV			2.34 H	341	54.8	45.9
3	#12890.00	63.5 PK	88.2	-24.7	1.45 H	282	40.0	23.5
4	#12890.00	50.3 AV	68.2	-17.9	1.45 H	282	26.8	23.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	108.3 PK			3.95 V	68	62.4	45.9
2	*6445.00	96.1 AV			3.95 V	68	50.2	45.9
3	#12890.00	63.3 PK	88.2	-24.9	1.85 V	279	39.8	23.5
4	#12890.00	50.0 AV	68.2	-18.2	1.85 V	279	26.5	23.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 107 : 6485 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	112.8 PK			2.34 H	339	66.6	46.2
2	*6485.00	100.4 AV			2.34 H	339	54.2	46.2
3	#12970.00	63.2 PK	88.2	-25.0	1.45 H	277	40.0	23.2
4	#12970.00	50.0 AV	68.2	-18.2	1.45 H	277	26.8	23.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	109.2 PK			3.95 V	73	63.0	46.2
2	*6485.00	96.9 AV			3.95 V	73	50.7	46.2
3	#12970.00	63.0 PK	88.2	-25.2	1.92 V	283	39.8	23.2
4	#12970.00	49.8 AV	68.2	-18.4	1.92 V	283	26.6	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 115 : 6525 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	113.5 PK			2.34 H	336	67.0	46.5
2	*6525.00	100.8 AV			2.34 H	336	54.3	46.5
3	#13050.00	63.1 PK	88.2	-25.1	1.46 H	275	40.1	23.0
4	#13050.00	49.7 AV	68.2	-18.5	1.46 H	275	26.7	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	109.1 PK			3.94 V	77	62.6	46.5
2	*6525.00	96.9 AV			3.94 V	77	50.4	46.5
3	#13050.00	62.7 PK	88.2	-25.5	1.87 V	287	39.7	23.0
4	#13050.00	49.5 AV	68.2	-18.7	1.87 V	287	26.5	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 123 : 6565 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	111.8 PK			2.48 H	312	65.3	46.5
2	*6565.00	99.9 AV			2.48 H	312	53.4	46.5
3	#13130.00	63.3 PK	88.2	-24.9	1.58 H	272	40.0	23.3
4	#13130.00	50.3 AV	68.2	-17.9	1.58 H	272	27.0	23.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	109.0 PK			3.86 V	76	62.5	46.5
2	*6565.00	96.0 AV			3.86 V	76	49.5	46.5
3	#13130.00	63.1 PK	88.2	-25.1	1.93 V	291	39.8	23.3
4	#13130.00	50.0 AV	68.2	-18.2	1.93 V	291	26.7	23.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 155 : 6725 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	112.1 PK			2.47 H	316	65.8	46.3
2	*6725.00	99.9 AV			2.47 H	316	53.6	46.3
3	#13450.00	64.5 PK	88.2	-23.7	1.55 H	277	40.1	24.4
4	#13450.00	51.2 AV	68.2	-17.0	1.55 H	277	26.8	24.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	108.3 PK			3.86 V	72	62.0	46.3
2	*6725.00	95.9 AV			3.86 V	72	49.6	46.3
3	#13450.00	64.2 PK	88.2	-24.0	1.92 V	285	39.8	24.4
4	#13450.00	51.1 AV	68.2	-17.1	1.92 V	285	26.7	24.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 179 : 6845 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	112.0 PK			2.49 H	327	65.3	46.7
2	*6845.00	100.1 AV			2.49 H	327	53.4	46.7
3	#13690.00	64.3 PK	88.2	-23.9	1.55 H	275	39.8	24.5
4	#13690.00	51.2 AV	68.2	-17.0	1.55 H	275	26.7	24.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	108.8 PK			3.87 V	61	62.1	46.7
2	*6845.00	96.1 AV			3.87 V	61	49.4	46.7
3	#13690.00	64.2 PK	88.2	-24.0	1.93 V	291	39.7	24.5
4	#13690.00	51.0 AV	68.2	-17.2	1.93 V	291	26.5	24.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 187 : 6885 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	112.1 PK			2.48 H	327	65.3	46.8
2	*6885.00	99.9 AV			2.48 H	327	53.1	46.8
3	#13770.00	64.3 PK	88.2	-23.9	1.47 H	277	39.6	24.7
4	#13770.00	50.9 AV	68.2	-17.3	1.47 H	277	26.2	24.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	109.8 PK			3.93 V	256	63.0	46.8
2	*6885.00	96.9 AV			3.93 V	256	50.1	46.8
3	#13770.00	64.2 PK	88.2	-24.0	1.87 V	284	39.5	24.7
4	#13770.00	50.7 AV	68.2	-17.5	1.87 V	284	26.0	24.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 211 : 7005 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	113.8 PK			2.48 H	339	66.0	47.8
2	*7005.00	100.5 AV			2.48 H	339	52.7	47.8
3	#14010.00	65.0 PK	88.2	-23.2	1.44 H	272	39.5	25.5
4	#14010.00	51.6 AV	68.2	-16.6	1.44 H	272	26.1	25.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	109.3 PK			3.95 V	255	61.5	47.8
2	*7005.00	96.4 AV			3.95 V	255	48.6	47.8
3	#14010.00	64.8 PK	88.2	-23.4	1.89 V	292	39.3	25.5
4	#14010.00	51.5 AV	68.2	-16.7	1.89 V	292	26.0	25.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 227 : 7085 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	113.5 PK			2.50 H	340	65.7	47.8
2	*7085.00	100.8 AV			2.50 H	340	53.0	47.8
3	#7125.00	66.2 PK	88.2	-22.0	2.50 H	340	49.7	16.5
4	#7125.00	53.3 AV	68.2	-14.9	2.50 H	340	36.8	16.5
5	#14170.00	65.4 PK	88.2	-22.8	1.42 H	275	39.7	25.7
6	#14170.00	51.9 AV	68.2	-16.3	1.42 H	275	26.2	25.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	108.7 PK			4.00 V	259	60.9	47.8
2	*7085.00	96.4 AV			4.00 V	259	48.6	47.8
3	#7125.00	66.0 PK	88.2	-22.2	4.00 V	259	49.5	16.5
4	#7125.00	53.0 AV	68.2	-15.2	4.00 V	259	36.5	16.5
5	#14170.00	65.2 PK	88.2	-23.0	1.89 V	286	39.5	25.7
6	#14170.00	51.7 AV	68.2	-16.5	1.89 V	286	26.0	25.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 7 : 5985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	63.0 PK	88.2	-25.2	2.12 H	319	49.1	13.9
2	#5925.00	51.1 AV	68.2	-17.1	2.12 H	319	37.2	13.9
3	*5985.00	112.5 PK			2.12 H	319	68.2	44.3
4	*5985.00	100.5 AV			2.12 H	319	56.2	44.3
5	11970.00	61.9 PK	74.0	-12.1	1.62 H	282	39.8	22.1
6	11970.00	48.6 AV	54.0	-5.4	1.62 H	282	26.5	22.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	62.4 PK	88.2	-25.8	3.62 V	280	48.5	13.9
2	#5925.00	50.0 AV	68.2	-18.2	3.62 V	280	36.1	13.9
3	*5985.00	105.7 PK			3.62 V	280	61.4	44.3
4	*5985.00	94.1 AV			3.62 V	280	49.8	44.3
5	11970.00	61.7 PK	74.0	-12.3	1.93 V	282	39.6	22.1
6	11970.00	48.4 AV	54.0	-5.6	1.93 V	282	26.3	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 39 : 6145 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6145.00	112.7 PK			2.14 H	319	68.1	44.6
2	*6145.00	100.4 AV			2.14 H	319	55.8	44.6
3	12290.00	61.8 PK	74.0	-12.2	1.59 H	285	39.7	22.1
4	12290.00	48.5 AV	54.0	-5.5	1.59 H	285	26.4	22.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6145.00	107.6 PK			3.92 V	210	63.0	44.6
2	*6145.00	95.4 AV			3.92 V	210	50.8	44.6
3	12290.00	61.6 PK	74.0	-12.4	1.96 V	283	39.5	22.1
4	12290.00	48.3 AV	54.0	-5.7	1.96 V	283	26.2	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE80)	Channel	CH 87 : 6385 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6385.00	112.5 PK			2.13 H	357	67.1	45.4
2	*6385.00	101.0 AV			2.13 H	357	55.6	45.4
3	#12770.00	62.6 PK	88.2	-25.6	1.55 H	281	39.6	23.0
4	#12770.00	49.5 AV	68.2	-18.7	1.55 H	281	26.5	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6385.00	108.2 PK			3.97 V	190	62.8	45.4
2	*6385.00	96.4 AV			3.97 V	190	51.0	45.4
3	#12770.00	62.5 PK	88.2	-25.7	1.96 V	289	39.5	23.0
4	#12770.00	49.4 AV	68.2	-18.8	1.96 V	289	26.4	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 103 : 6465 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	112.9 PK			2.34 H	338	66.9	46.0
2	*6465.00	99.8 AV			2.34 H	338	53.8	46.0
3	#12930.00	63.2 PK	88.2	-25.0	1.44 H	277	39.8	23.4
4	#12930.00	49.9 AV	68.2	-18.3	1.44 H	277	26.5	23.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	108.4 PK			3.96 V	73	62.4	46.0
2	*6465.00	96.4 AV			3.96 V	73	50.4	46.0
3	#12930.00	62.9 PK	88.2	-25.3	1.92 V	287	39.5	23.4
4	#12930.00	49.7 AV	68.2	-18.5	1.92 V	287	26.3	23.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 119 : 6545 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	112.8 PK			2.51 H	313	66.3	46.5
2	*6545.00	100.3 AV			2.51 H	313	53.8	46.5
3	#13090.00	62.6 PK	88.2	-25.6	1.52 H	276	39.6	23.0
4	#13090.00	49.3 AV	68.2	-18.9	1.52 H	276	26.3	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	108.1 PK			3.85 V	68	61.6	46.5
2	*6545.00	96.1 AV			3.85 V	68	49.6	46.5
3	#13090.00	62.5 PK	88.2	-25.7	1.89 V	287	39.5	23.0
4	#13090.00	49.2 AV	68.2	-19.0	1.89 V	287	26.2	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 151 : 6705 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	111.8 PK			2.52 H	316	65.7	46.1
2	*6705.00	99.9 AV			2.52 H	316	53.8	46.1
3	#13410.00	63.8 PK	88.2	-24.4	1.52 H	269	39.5	24.3
4	#13410.00	50.4 AV	68.2	-17.8	1.52 H	269	26.1	24.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	108.1 PK			3.86 V	71	62.0	46.1
2	*6705.00	96.4 AV			3.86 V	71	50.3	46.1
3	#13410.00	63.6 PK	88.2	-24.6	1.95 V	288	39.3	24.3
4	#13410.00	50.3 AV	68.2	-17.9	1.95 V	288	26.0	24.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 183 : 6865 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	113.1 PK			2.52 H	329	66.3	46.8
2	*6865.00	100.4 AV			2.52 H	329	53.6	46.8
3	#13730.00	64.4 PK	88.2	-23.8	1.58 H	276	39.7	24.7
4	#13730.00	50.9 AV	68.2	-17.3	1.58 H	276	26.2	24.7

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	108.6 PK			3.86 V	63	61.8	46.8
2	*6865.00	96.6 AV			3.86 V	63	49.8	46.8
3	#13410.00	63.7 PK	88.2	-24.5	1.89 V	285	39.4	24.3
4	#13410.00	50.4 AV	68.2	-17.8	1.89 V	285	26.1	24.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 199 : 6945 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	113.2 PK			2.51 H	326	65.8	47.4
2	*6945.00	100.7 AV			2.51 H	326	53.3	47.4
3	#13890.00	64.8 PK	88.2	-23.4	1.49 H	283	39.5	25.3
4	#13890.00	51.3 AV	68.2	-16.9	1.49 H	283	26.0	25.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	109.1 PK			3.87 V	256	61.7	47.4
2	*6945.00	97.3 AV			3.87 V	256	49.9	47.4
3	#13890.00	64.5 PK	88.2	-23.7	1.88 V	285	39.2	25.3
4	#13890.00	51.1 AV	68.2	-17.1	1.88 V	285	25.8	25.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 215 : 7025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	113.5 PK			2.53 H	329	65.7	47.8
2	*7025.00	101.1 AV			2.53 H	329	53.3	47.8
3	#7125.00	70.5 PK	88.2	-17.7	2.53 H	329	54.0	16.5
4	#7125.00	55.5 AV	68.2	-12.7	2.53 H	329	39.0	16.5
5	#14050.00	64.8 PK	88.2	-23.4	1.46 H	281	39.6	25.2
6	#14050.00	51.3 AV	68.2	-16.9	1.46 H	281	26.1	25.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	109.3 PK			3.87 V	256	61.5	47.8
2	*7025.00	96.6 AV			3.87 V	256	48.8	47.8
3	#7125.00	65.8 PK	88.2	-22.4	3.87 V	256	49.3	16.5
4	#7125.00	53.5 AV	68.2	-14.7	3.87 V	256	37.0	16.5
5	#14050.00	64.7 PK	88.2	-23.5	1.95 V	297	39.5	25.2
6	#14050.00	51.1 AV	68.2	-17.1	1.95 V	297	25.9	25.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 15 : 6025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	76.2 PK	88.2	-12.0	2.12 H	315	62.3	13.9
2	#5925.00	55.2 AV	68.2	-13.0	2.12 H	315	41.3	13.9
3	*6025.00	112.2 PK			2.12 H	315	67.9	44.3
4	*6025.00	99.7 AV			2.12 H	315	55.4	44.3
5	12050.00	61.6 PK	74.0	-12.4	1.54 H	281	39.5	22.1
6	12050.00	48.0 AV	54.0	-6.0	1.54 H	281	25.9	22.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	70.6 PK	88.2	-17.6	3.99 V	200	56.7	13.9
2	#5925.00	50.1 AV	68.2	-18.1	3.99 V	200	36.2	13.9
3	*6025.00	106.4 PK			3.99 V	200	62.1	44.3
4	*6025.00	95.1 AV			3.99 V	200	50.8	44.3
5	12050.00	61.3 PK	74.0	-12.7	1.98 V	287	39.2	22.1
6	12050.00	47.8 AV	54.0	-6.2	1.98 V	287	25.7	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6185.00	112.4 PK			2.12 H	320	67.9	44.5
2	*6185.00	100.5 AV			2.12 H	320	56.0	44.5
3	12370.00	61.0 PK	74.0	-13.0	1.53 H	283	39.4	21.6
4	12370.00	47.3 AV	54.0	-6.7	1.53 H	283	25.7	21.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6185.00	107.7 PK			4.00 V	202	63.2	44.5
2	*6185.00	96.5 AV			4.00 V	202	52.0	44.5
3	12370.00	60.8 PK	74.0	-13.2	1.98 V	289	39.2	21.6
4	12370.00	47.1 AV	54.0	-6.9	1.98 V	289	25.5	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6345.00	112.6 PK			2.22 H	356	67.3	45.3
2	*6345.00	100.9 AV			2.22 H	356	55.6	45.3
3	12690.00	62.2 PK	74.0	-11.8	1.52 H	278	39.6	22.6
4	12690.00	48.6 AV	54.0	-5.4	1.52 H	278	26.0	22.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6345.00	108.9 PK			3.91 V	202	63.6	45.3
2	*6345.00	97.1 AV			3.91 V	202	51.8	45.3
3	12690.00	62.1 PK	74.0	-11.9	2.02 V	294	39.5	22.6
4	12690.00	48.3 AV	54.0	-5.7	2.02 V	294	25.7	22.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE160)	Channel	CH 111 : 6505 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	111.8 PK			2.28 H	341	65.5	46.3
2	*6505.00	100.4 AV			2.28 H	341	54.1	46.3
3	#13010.00	62.7 PK	88.2	-25.5	1.49 H	282	39.7	23.0
4	#13010.00	49.0 AV	68.2	-19.2	1.49 H	282	26.0	23.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	107.6 PK			3.93 V	72	61.3	46.3
2	*6505.00	95.4 AV			3.93 V	72	49.1	46.3
3	#13010.00	62.5 PK	88.2	-25.7	1.92 V	292	39.5	23.0
4	#13010.00	48.8 AV	68.2	-19.4	1.92 V	292	25.8	23.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	111.9 PK			2.50 H	320	65.8	46.1
2	*6665.00	99.9 AV			2.50 H	320	53.8	46.1
3	13330.00	63.5 PK	74.0	-10.5	1.52 H	275	39.5	24.0
4	13330.00	49.8 AV	54.0	-4.2	1.52 H	275	25.8	24.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	107.8 PK			3.93 V	71	61.7	46.1
2	*6665.00	95.6 AV			3.93 V	71	49.5	46.1
3	13330.00	63.2 PK	74.0	-10.8	1.96 V	297	39.2	24.0
4	13330.00	49.5 AV	54.0	-4.5	1.96 V	297	25.5	24.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE160)	Channel	CH 175 : 6825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	112.6 PK			2.59 H	329	66.0	46.6
2	*6825.00	100.8 AV			2.59 H	329	54.2	46.6
3	#13650.00	64.0 PK	88.2	-24.2	1.53 H	269	39.6	24.4
4	#13650.00	50.3 AV	68.2	-17.9	1.53 H	269	25.9	24.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	108.1 PK			3.93 V	62	61.5	46.6
2	*6825.00	96.3 AV			3.93 V	62	49.7	46.6
3	#13650.00	63.7 PK	88.2	-24.5	1.89 V	287	39.3	24.4
4	#13650.00	50.1 AV	68.2	-18.1	1.89 V	287	25.7	24.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 207 : 6985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	112.4 PK			2.53 H	331	64.7	47.7
2	*6985.00	100.6 AV			2.53 H	331	52.9	47.7
3	#7125.00	78.9 PK	88.2	-9.3	2.53 H	331	62.4	16.5
4	#7125.00	60.9 AV	68.2	-7.3	2.53 H	331	44.4	16.5
5	7250.00	66.3 PK	74.0	-7.7	2.53 H	331	49.8	16.5
6	7250.00	53.4 AV	54.0	-0.6	2.53 H	331	36.9	16.5
7	#13970.00	65.0 PK	88.2	-23.2	1.42 H	269	39.5	25.5
8	#13970.00	51.2 AV	68.2	-17.0	1.42 H	269	25.7	25.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	109.3 PK			3.88 V	257	61.6	47.7
2	*6985.00	96.3 AV			3.88 V	257	48.6	47.7
3	#7125.00	76.5 PK	88.2	-11.7	3.88 V	257	60.0	16.5
4	#7125.00	56.7 AV	68.2	-11.5	3.88 V	257	40.2	16.5
5	7250.00	66.0 PK	74.0	-8.0	3.88 V	257	49.5	16.5
6	7250.00	53.2 AV	54.0	-0.8	3.88 V	257	36.7	16.5
7	#13970.00	64.7 PK	88.2	-23.5	1.89 V	285	39.2	25.5
8	#13970.00	51.0 AV	68.2	-17.2	1.89 V	285	25.5	25.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

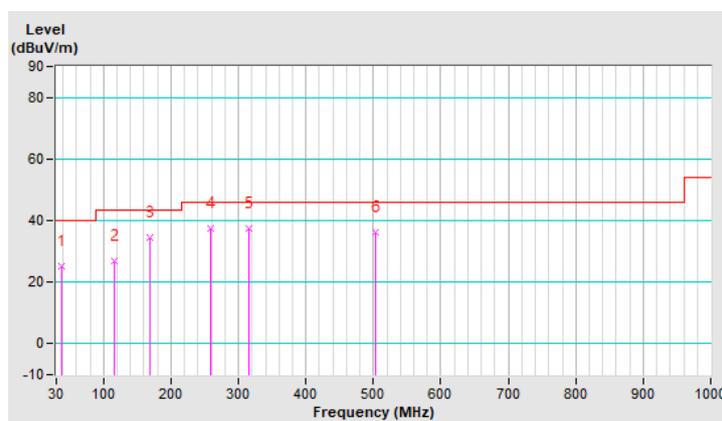
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.73	25.1 QP	40.0	-14.9	1.99 H	234	34.6	-9.5
2	116.33	27.0 QP	43.5	-16.5	1.49 H	148	38.2	-11.2
3	168.71	34.4 QP	43.5	-9.1	1.00 H	257	43.3	-8.9
4	258.92	37.4 QP	46.0	-8.6	1.00 H	255	46.3	-8.9
5	315.18	37.4 QP	46.0	-8.6	1.00 H	255	44.5	-7.1
6	503.36	36.1 QP	46.0	-9.9	1.49 H	5	40.2	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

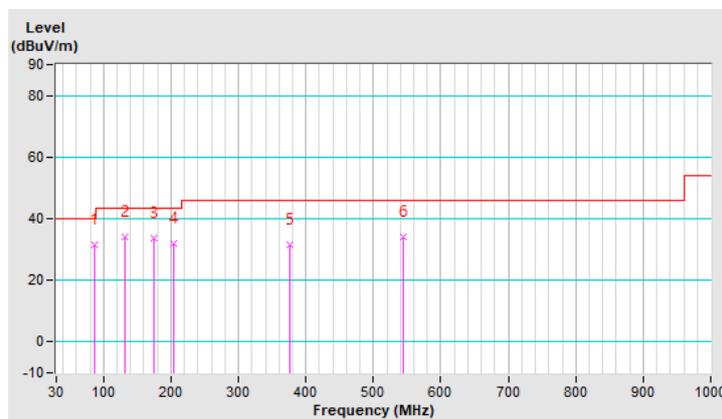


RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	87.23	31.7 QP	40.0	-8.3	1.49 V	81	46.0	-14.3
2	131.85	34.1 QP	43.5	-9.4	1.99 V	305	43.9	-9.8
3	174.53	33.6 QP	43.5	-9.9	1.00 V	242	42.8	-9.2
4	203.63	31.8 QP	43.5	-11.7	1.49 V	81	43.2	-11.4
5	375.32	31.6 QP	46.0	-14.4	1.00 V	170	37.7	-6.1
6	545.07	34.2 QP	46.0	-11.8	1.00 V	244	37.6	-3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Band Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

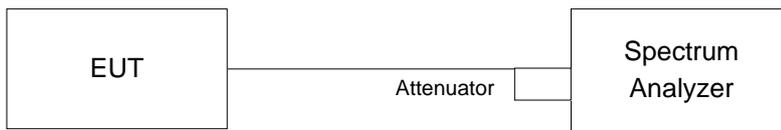
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

*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.

4.2.2 Test Setup



4.2.3 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.

4.2.4 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 $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - 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

4.2.5 EUT Operating Condition

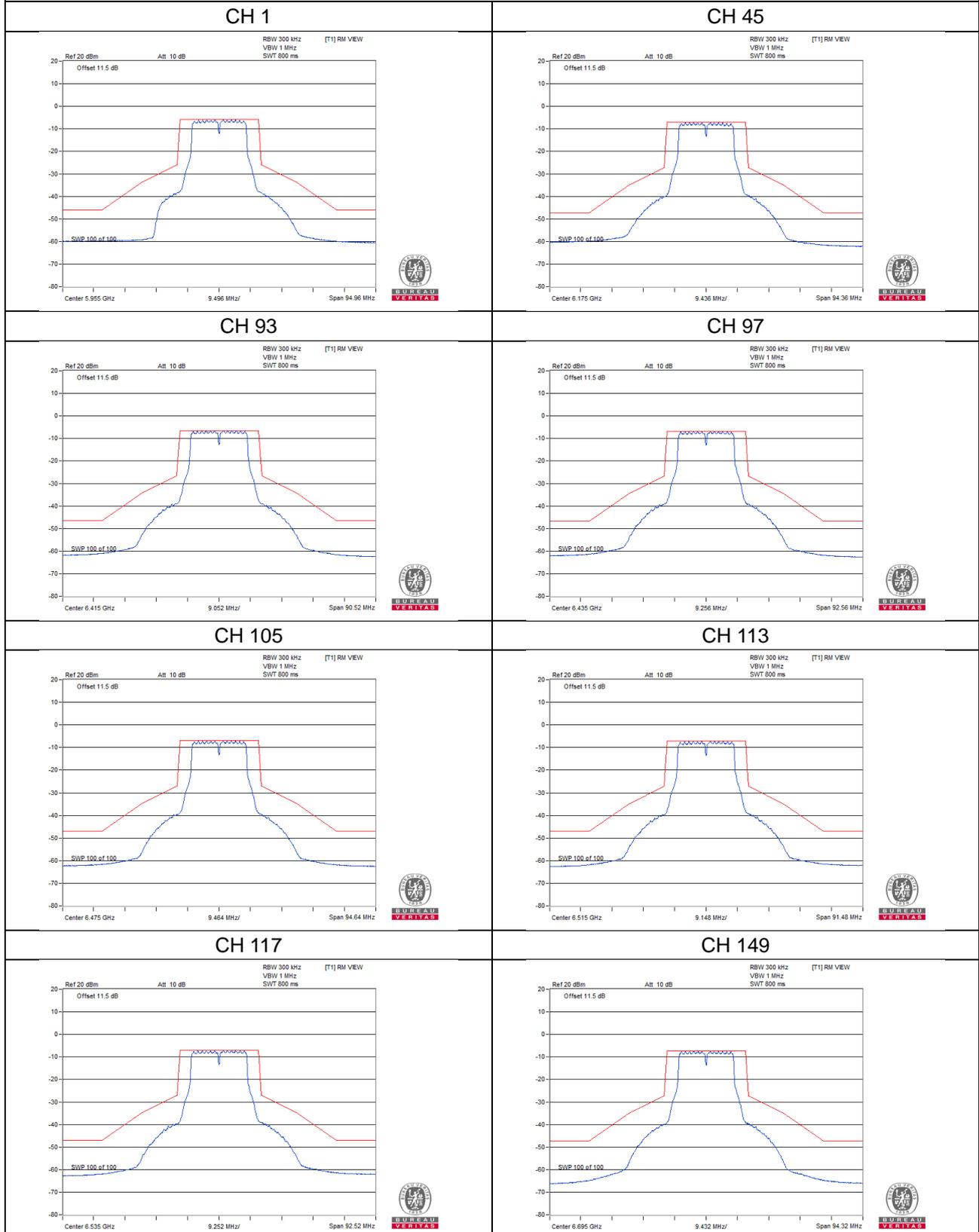
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.6 Test Results

CDD Mode

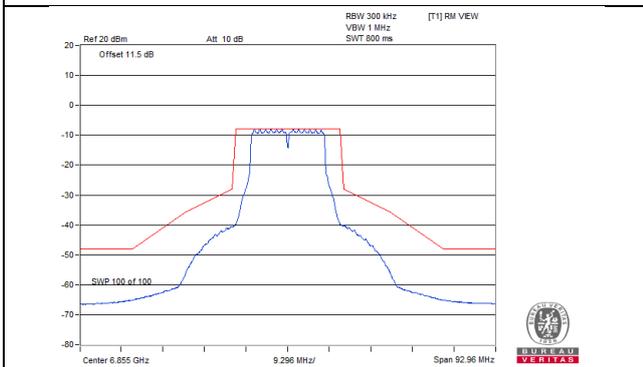
802.11a_Chain 0

Spectrum Plot

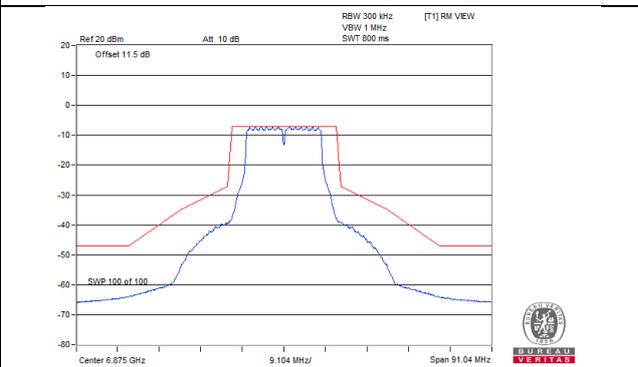


Spectrum Plot

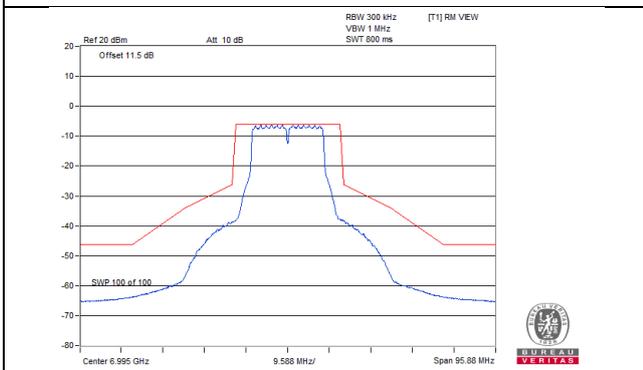
CH 181



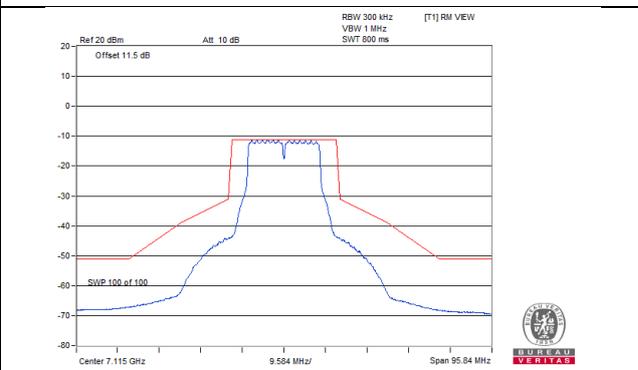
CH 185



CH 209

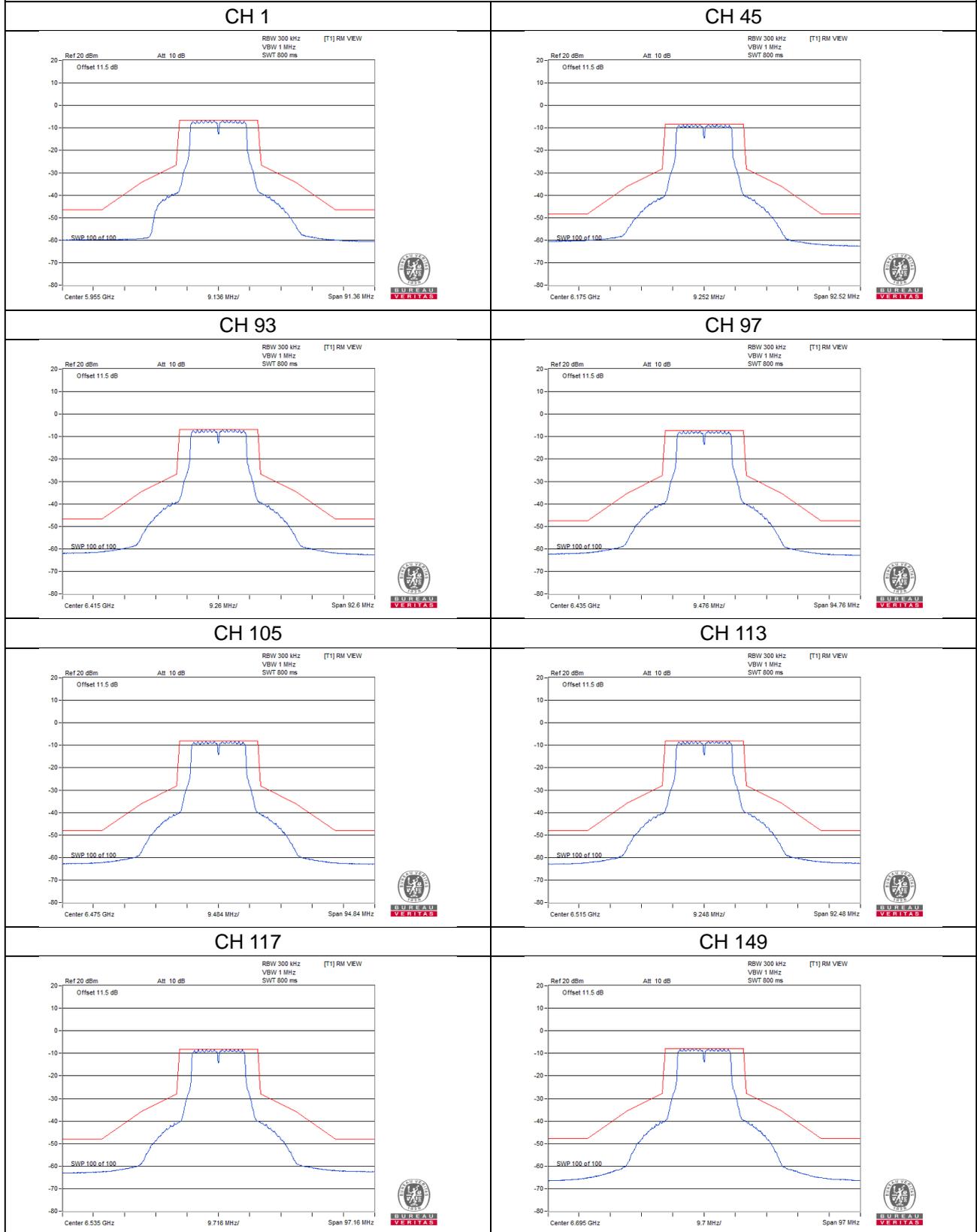


CH 233



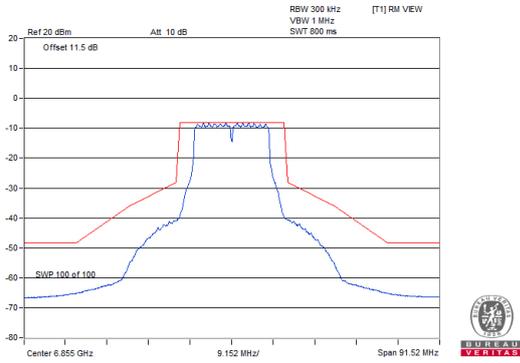
802.11a_Chain 1

Spectrum Plot

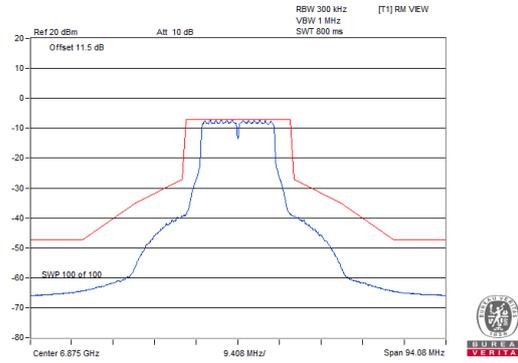


Spectrum Plot

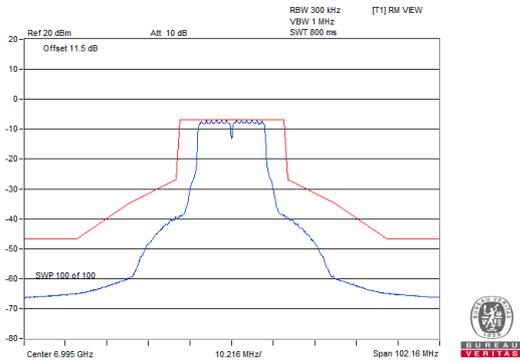
CH 181



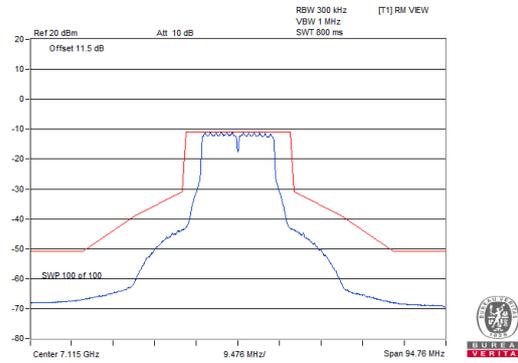
CH 185



CH 209



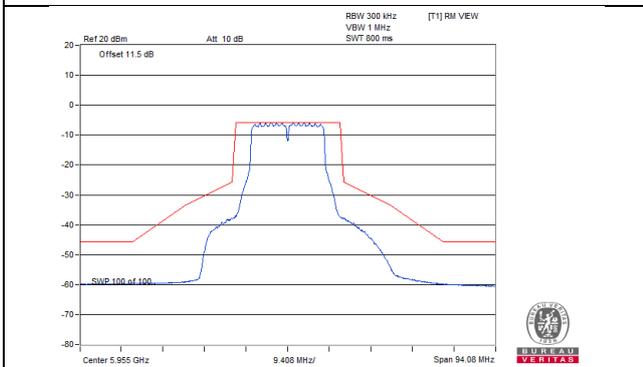
CH 233



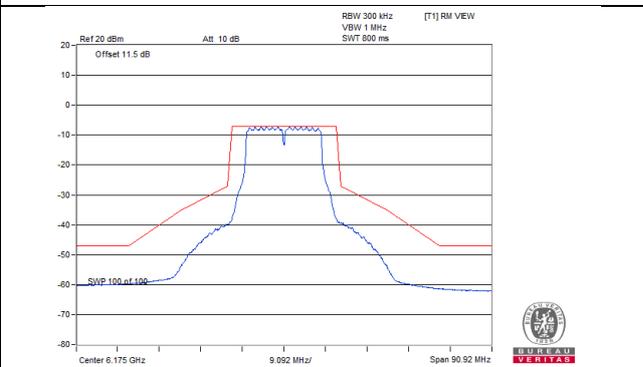
802.11a_Chain 2

Spectrum Plot

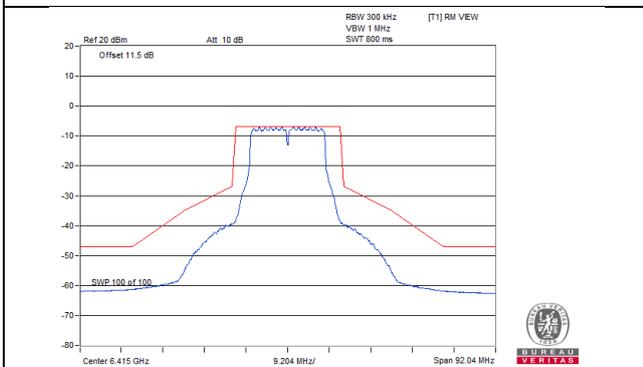
CH 1



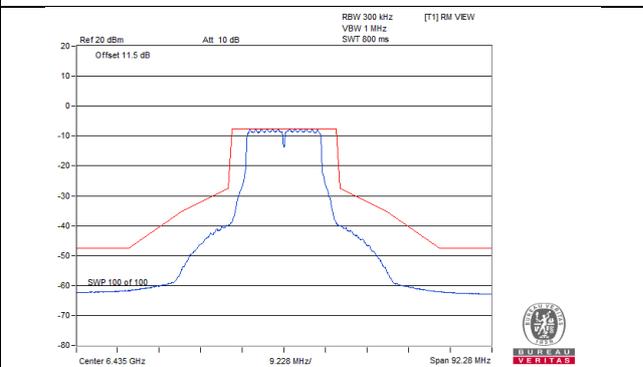
CH 45



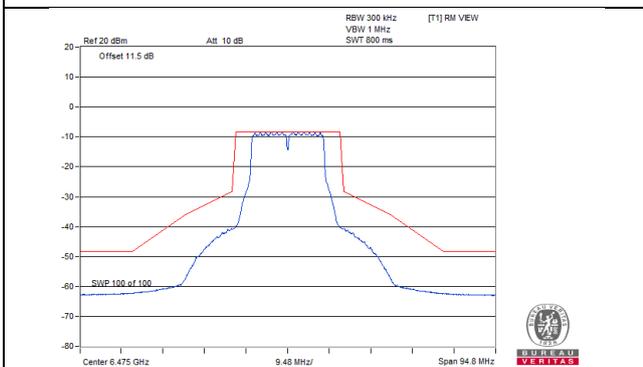
CH 93



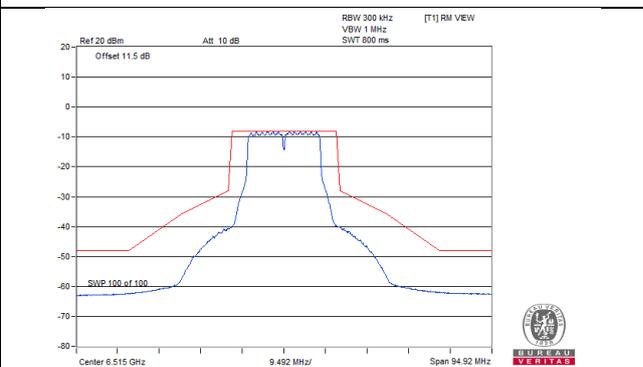
CH 97



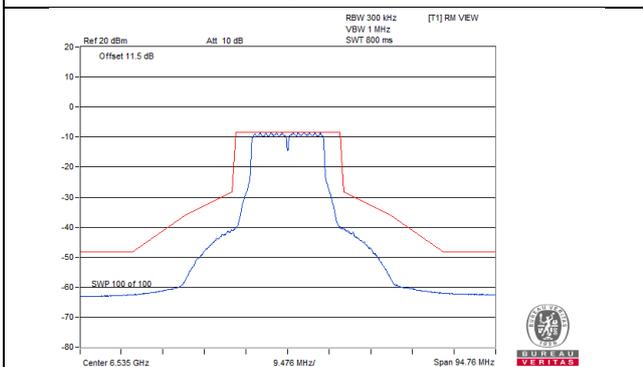
CH 105



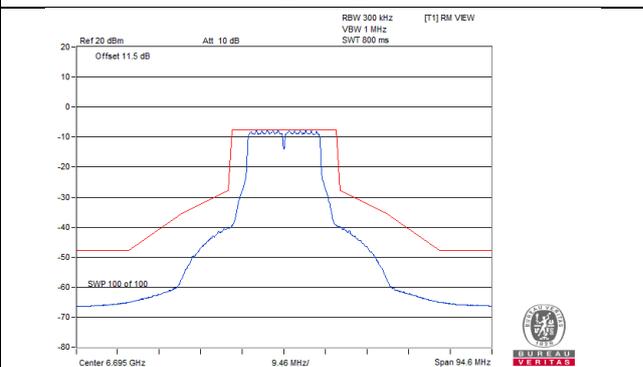
CH 113



CH 117

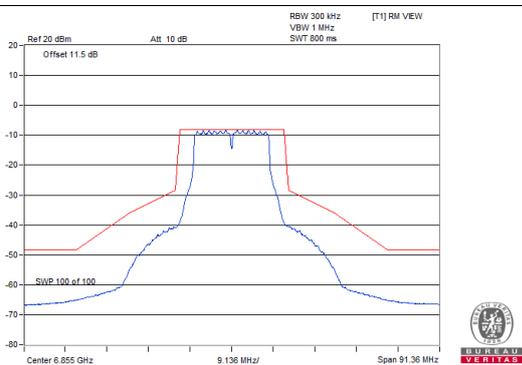


CH 149

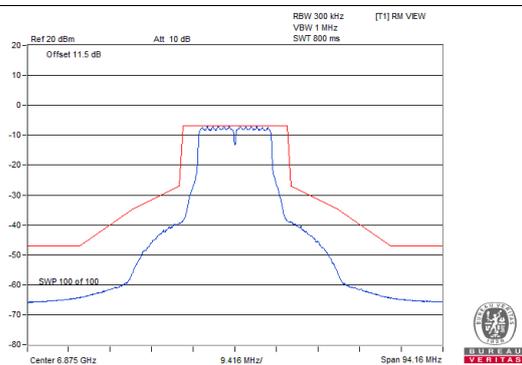


Spectrum Plot

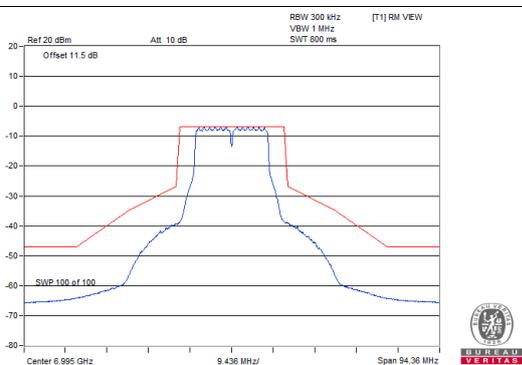
CH 181



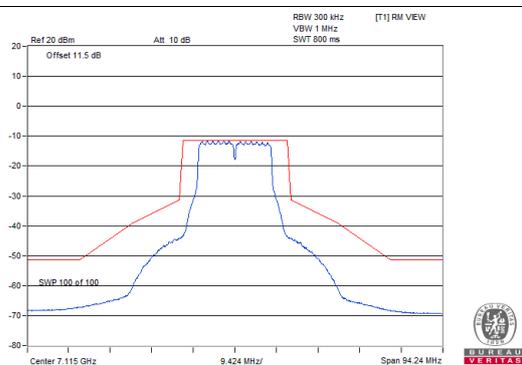
CH 185



CH 209



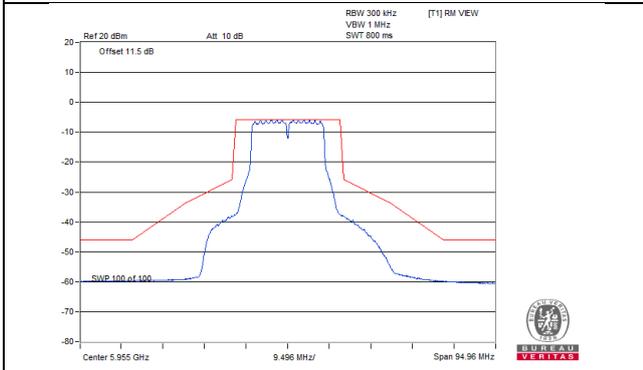
CH 233



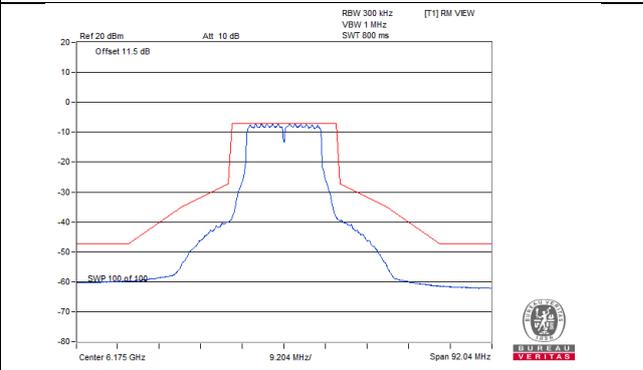
802.11a_Chain 3

Spectrum Plot

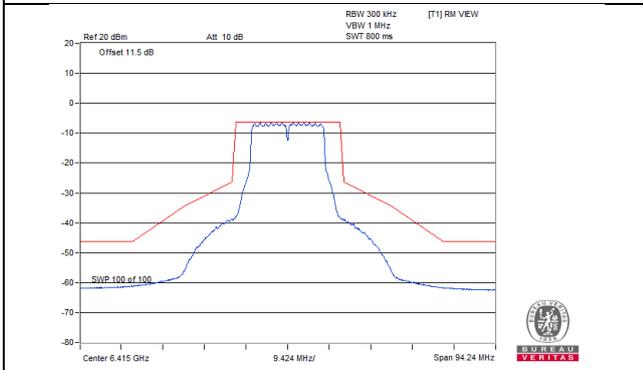
CH 1



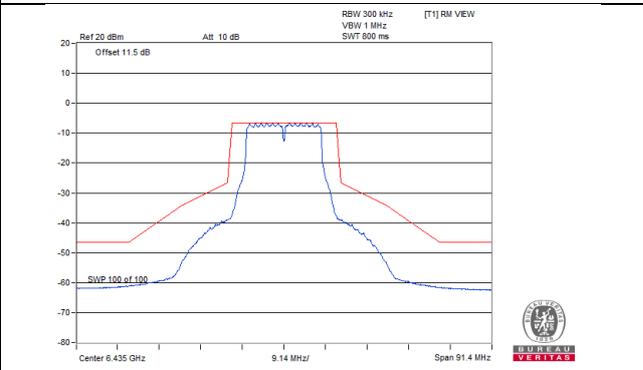
CH 45



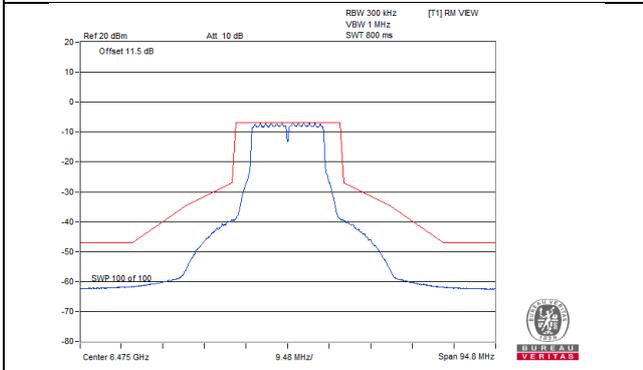
CH 93



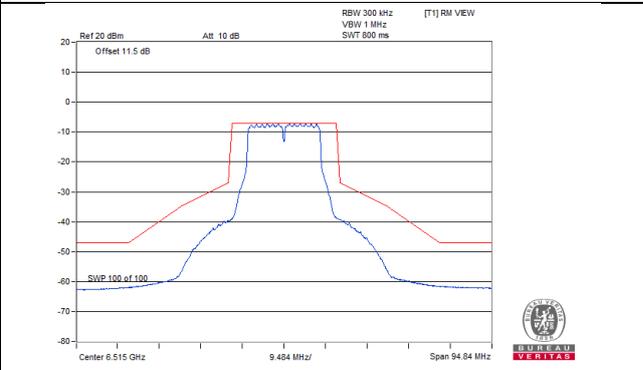
CH 97



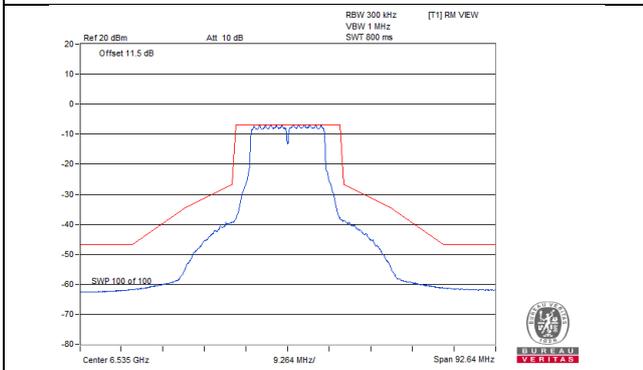
CH 105



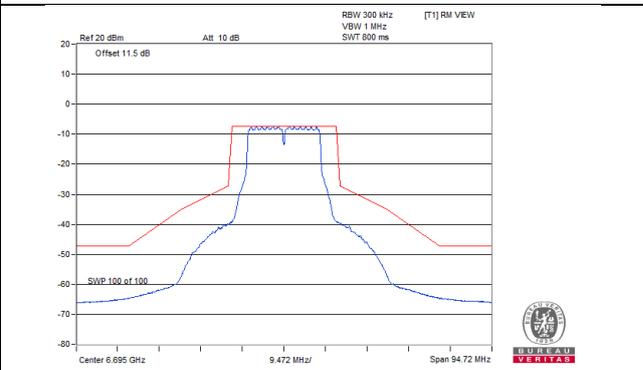
CH 113



CH 117

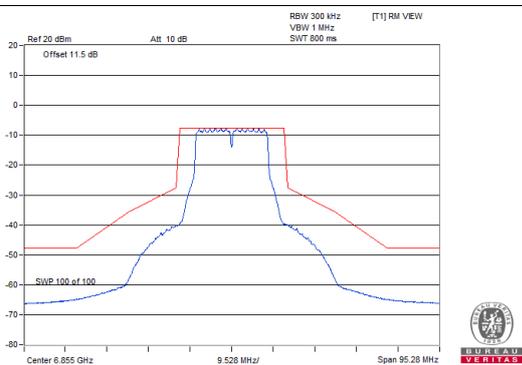


CH 149

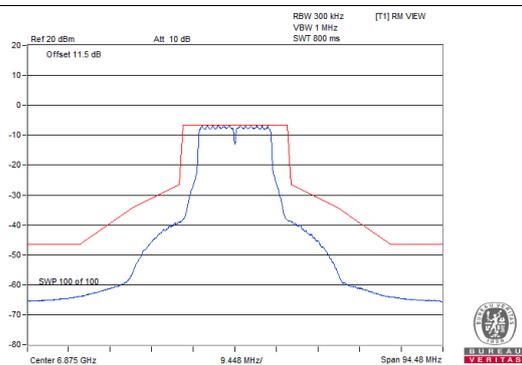


Spectrum Plot

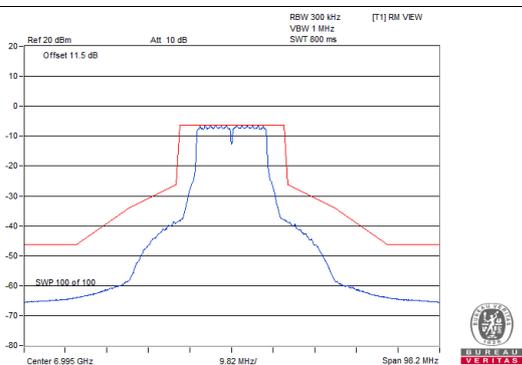
CH 181



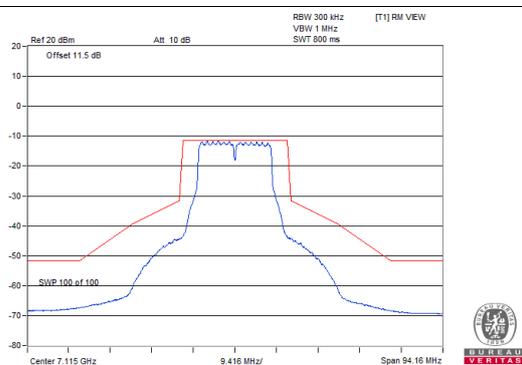
CH 185



CH 209



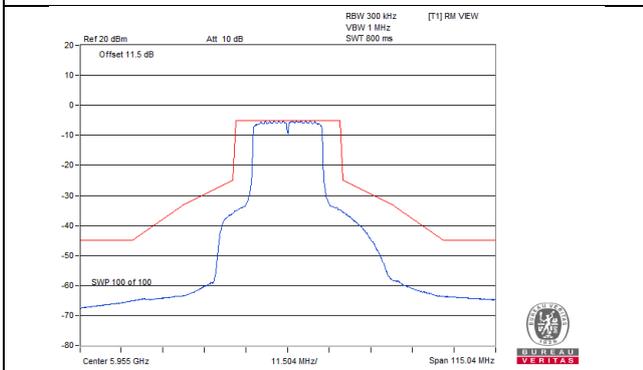
CH 233



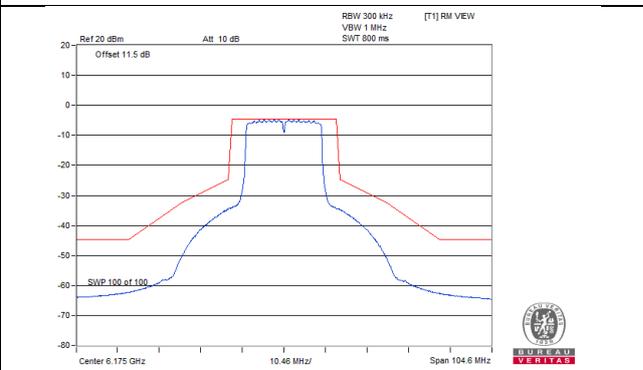
802.11ax (HE20)_Chain 0

Spectrum Plot

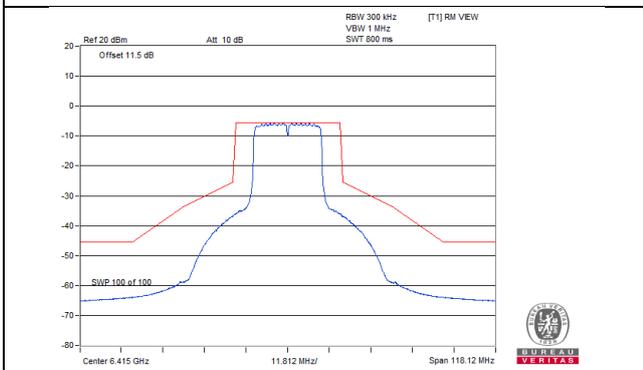
CH 1



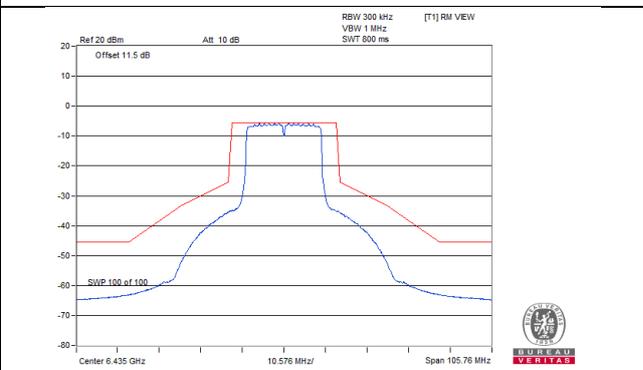
CH 45



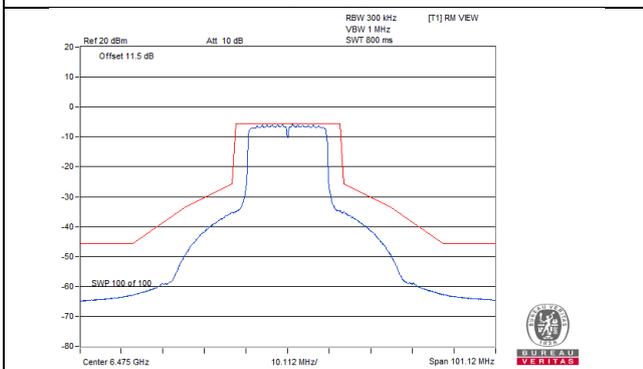
CH 93



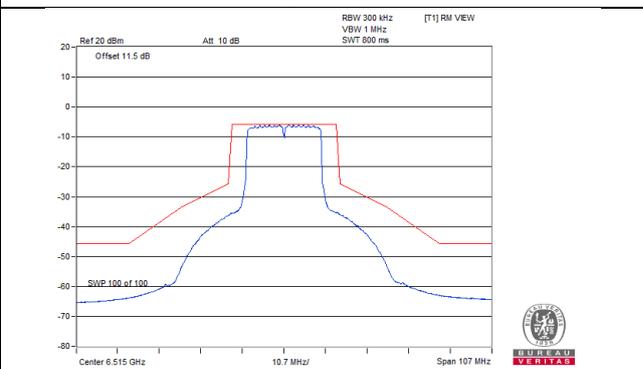
CH 97



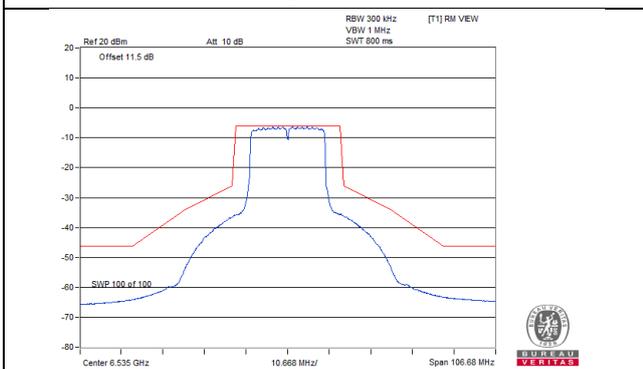
CH 105



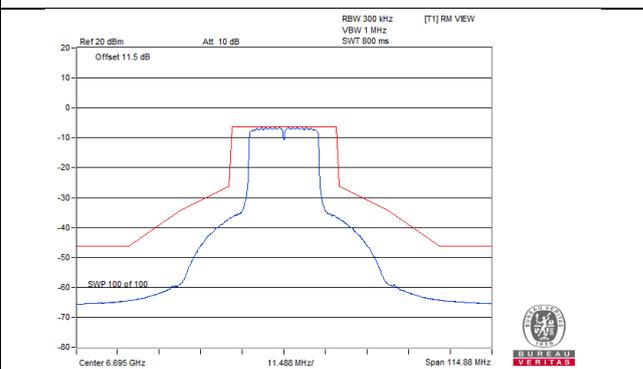
CH 113



CH 117

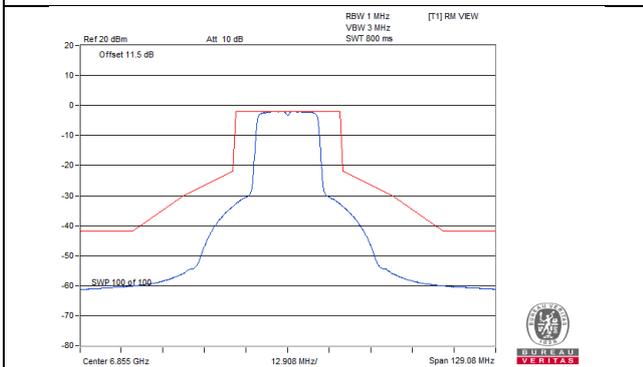


CH 149

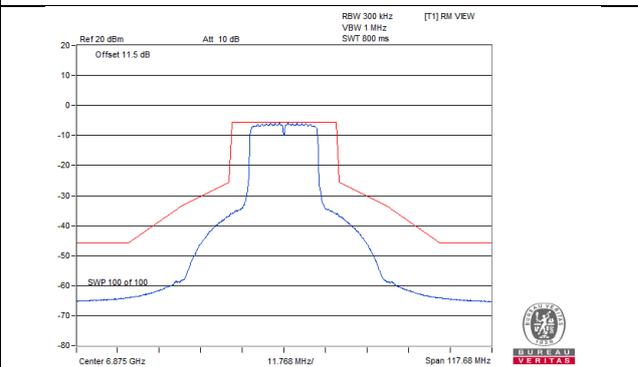


Spectrum Plot

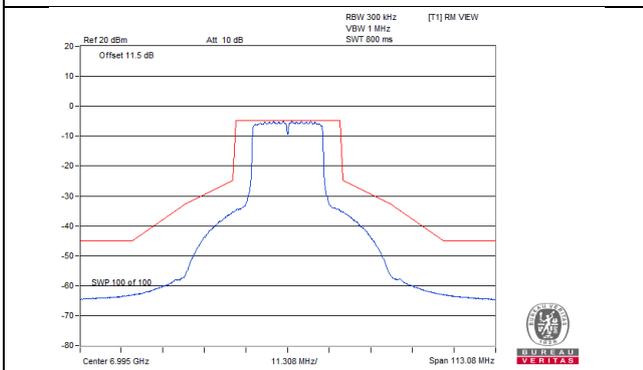
CH 181



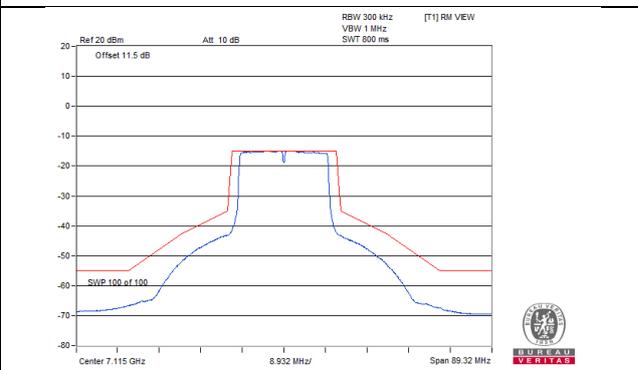
CH 185



CH 209



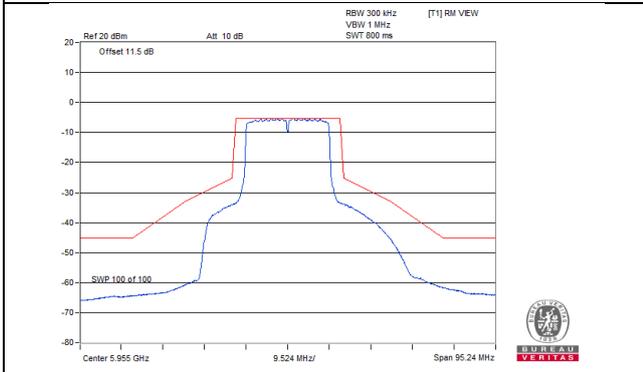
CH 233



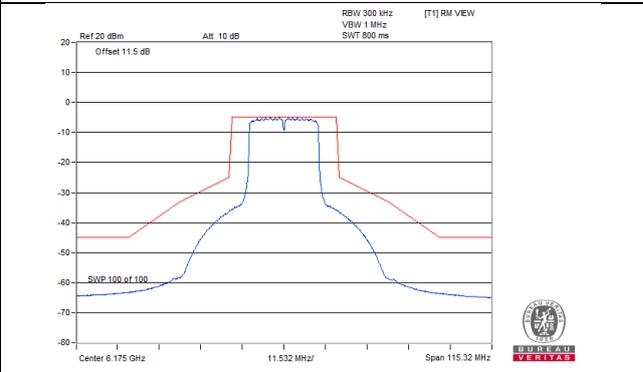
802.11ax (HE20)_Chain 1

Spectrum Plot

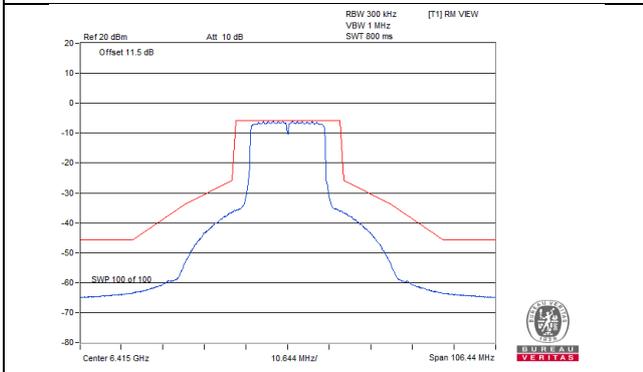
CH 1



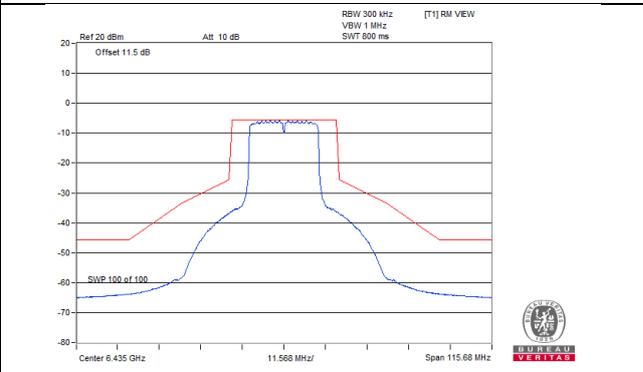
CH 45



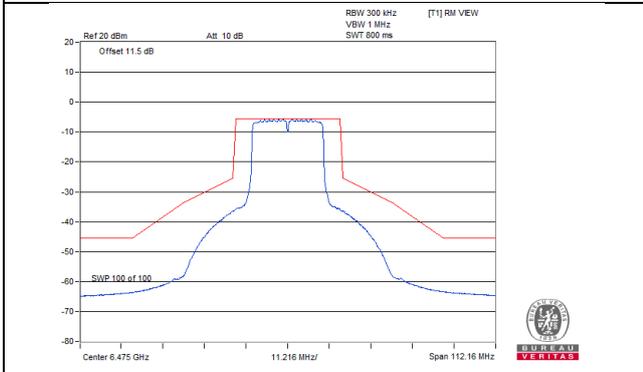
CH 93



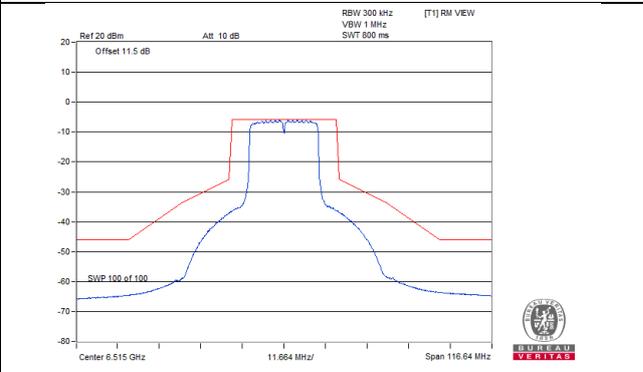
CH 97



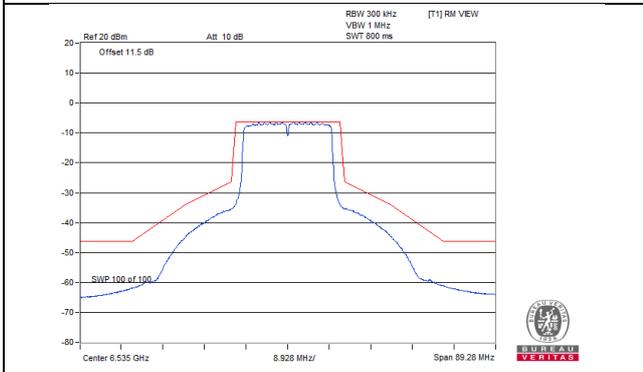
CH 105



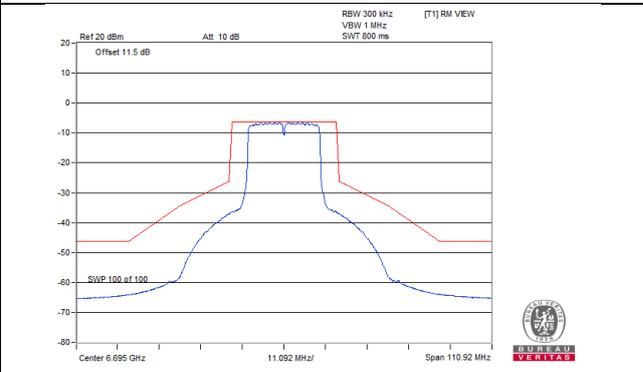
CH 113



CH 117

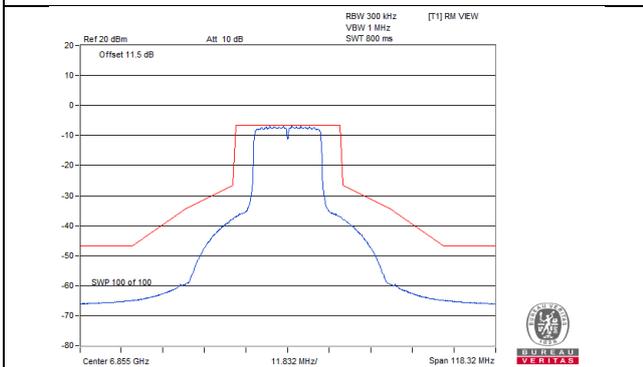


CH 149

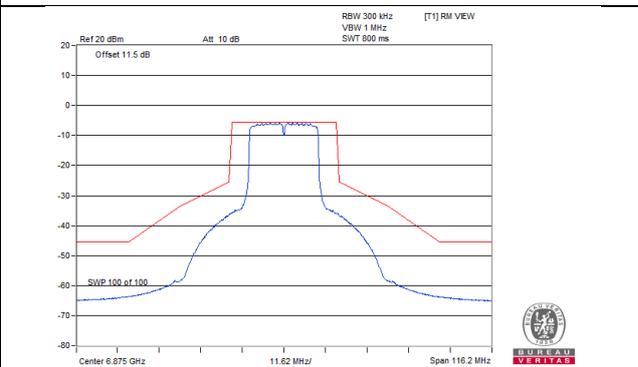


Spectrum Plot

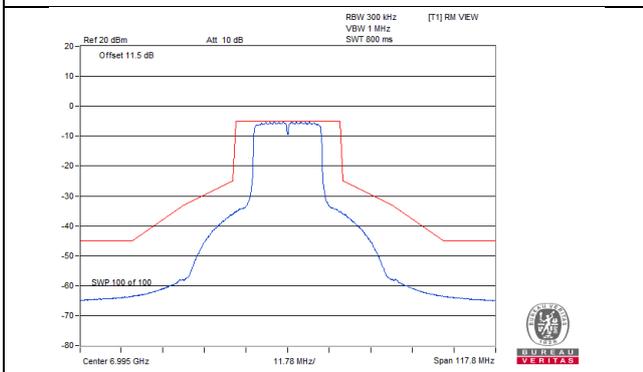
CH 181



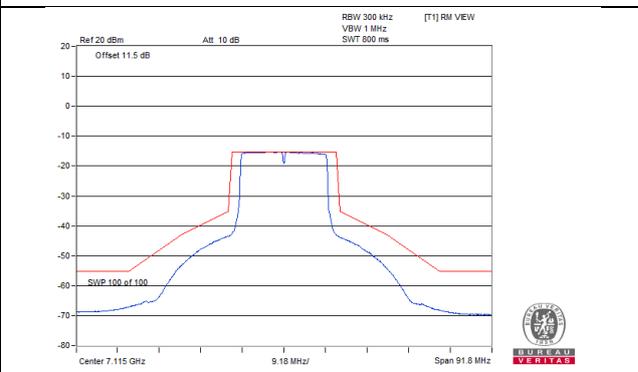
CH 185



CH 209



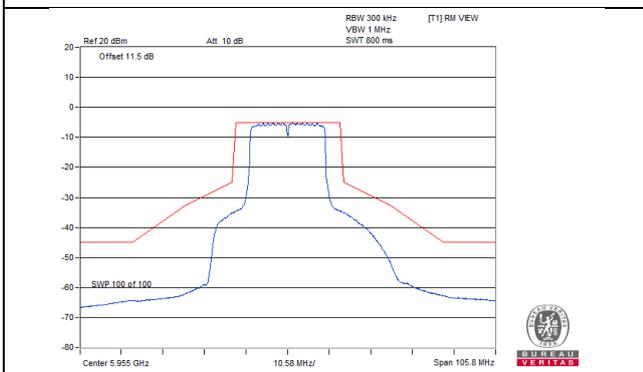
CH 233



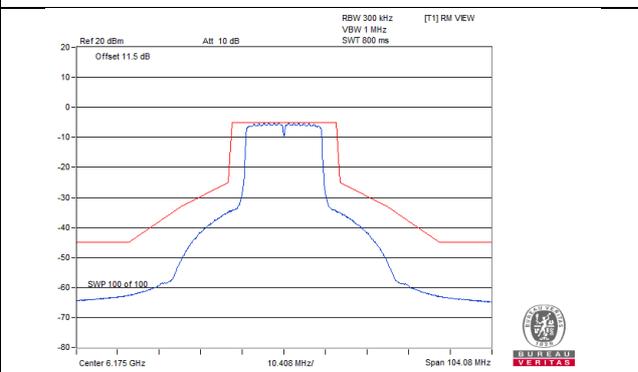
802.11ax (HE20)_Chain 2

Spectrum Plot

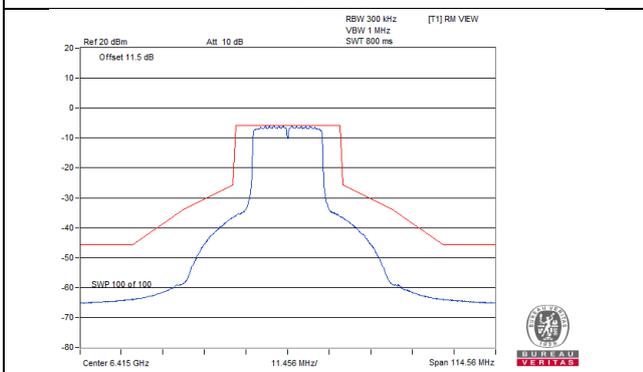
CH 1



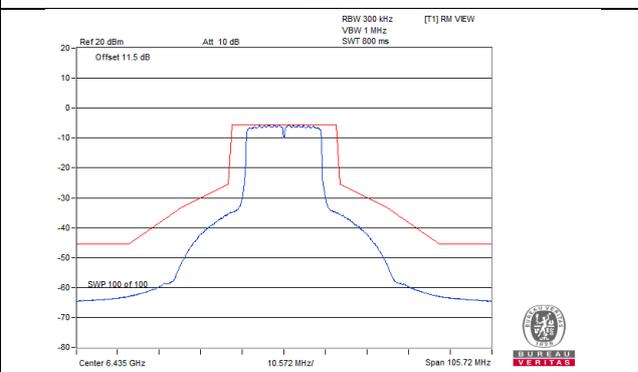
CH 45



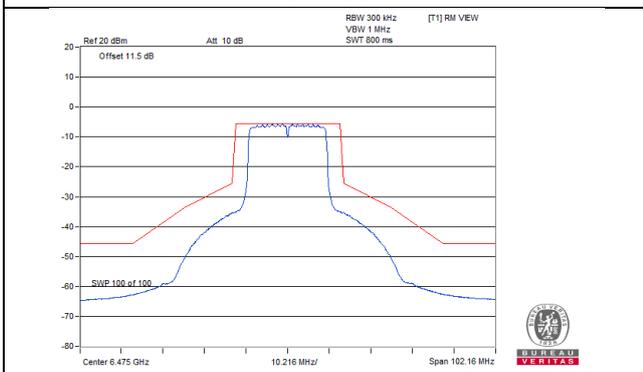
CH 93



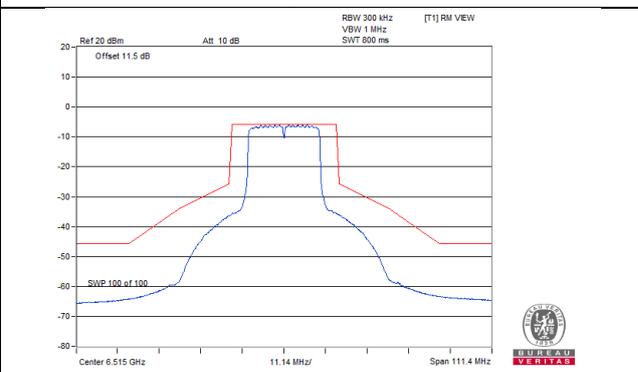
CH 97



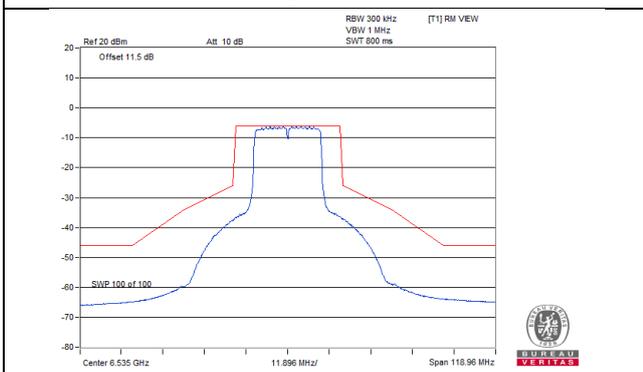
CH 105



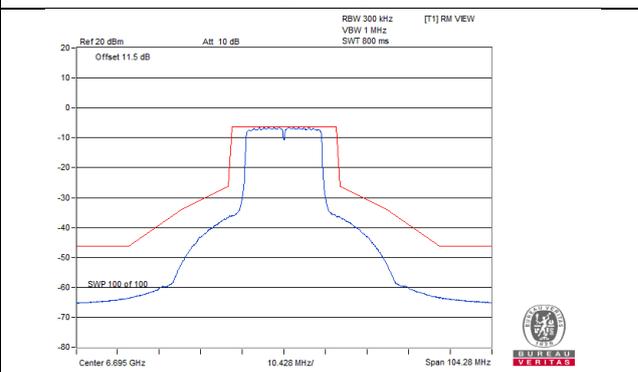
CH 113



CH 117

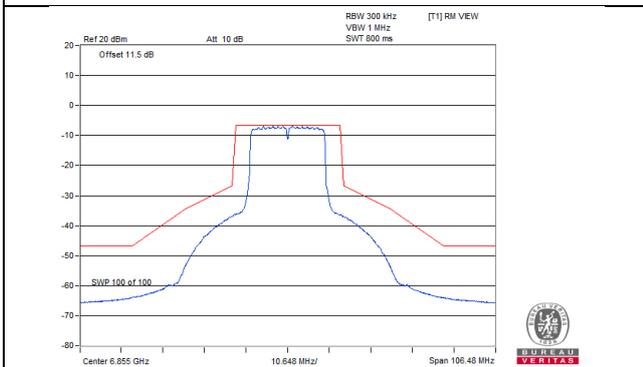


CH 149

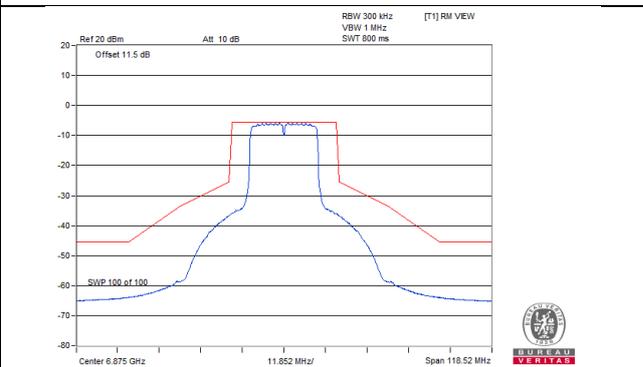


Spectrum Plot

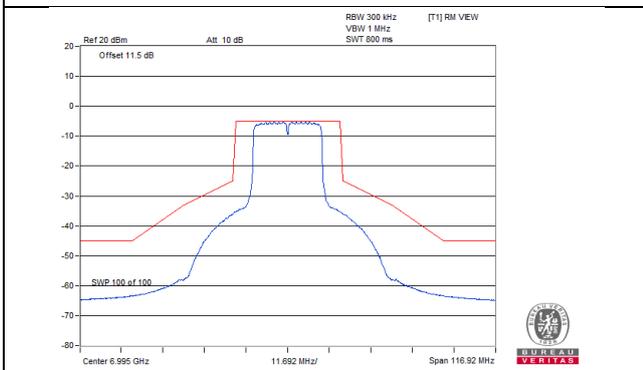
CH 181



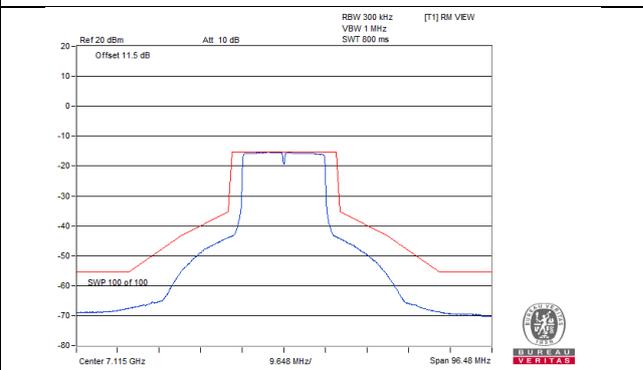
CH 185



CH 209

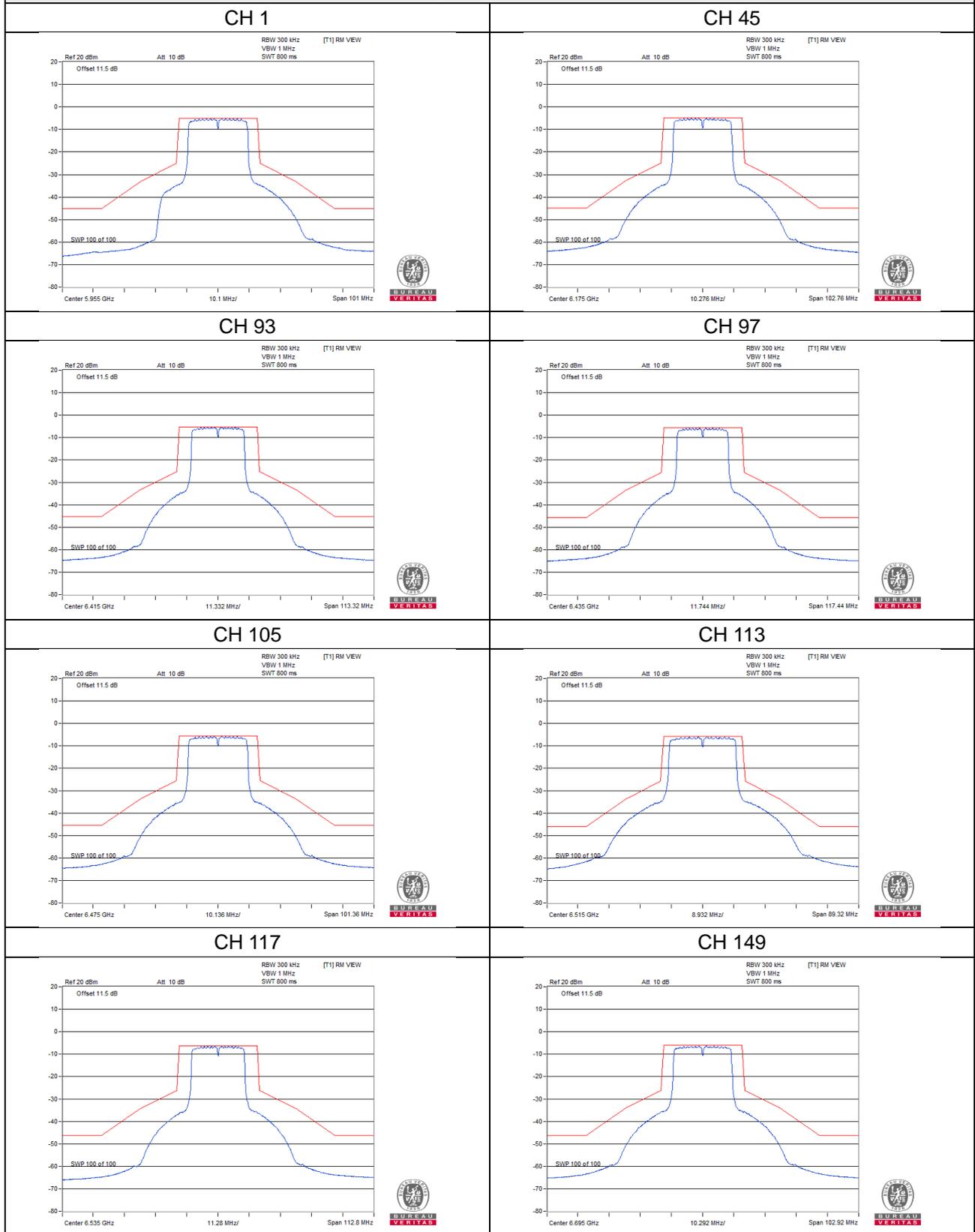


CH 233



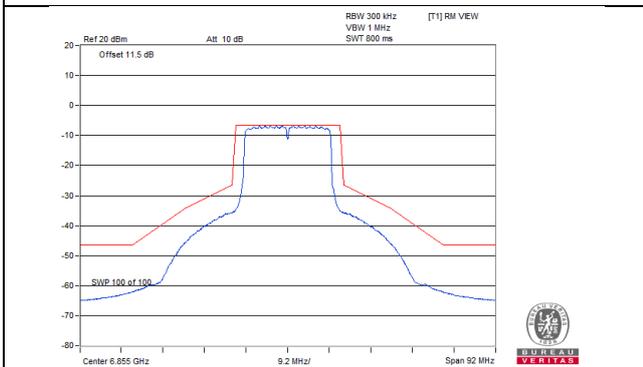
802.11ax (HE20)_Chain 3

Spectrum Plot

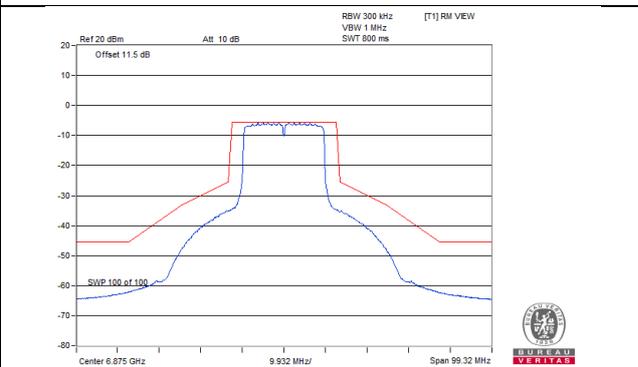


Spectrum Plot

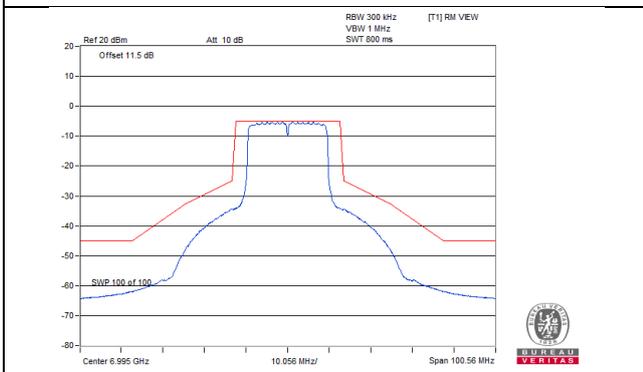
CH 181



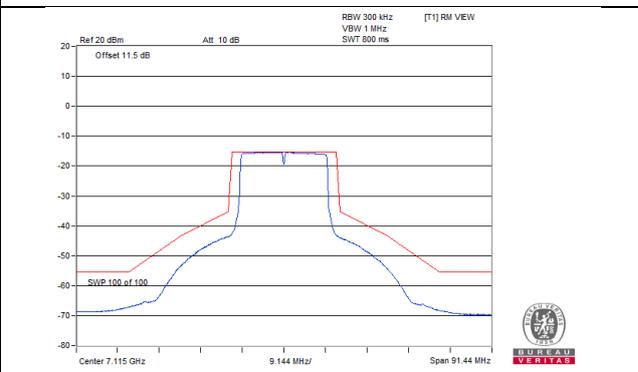
CH 185



CH 209



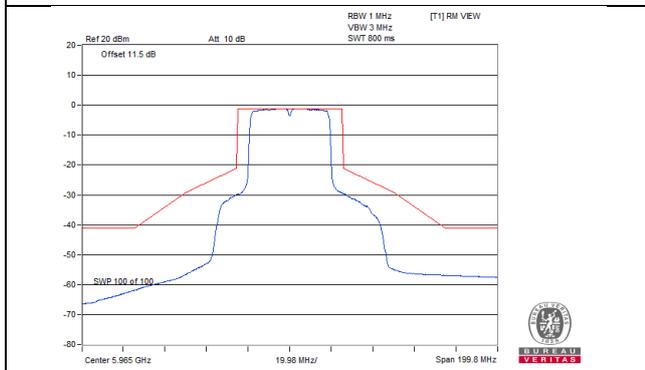
CH 233



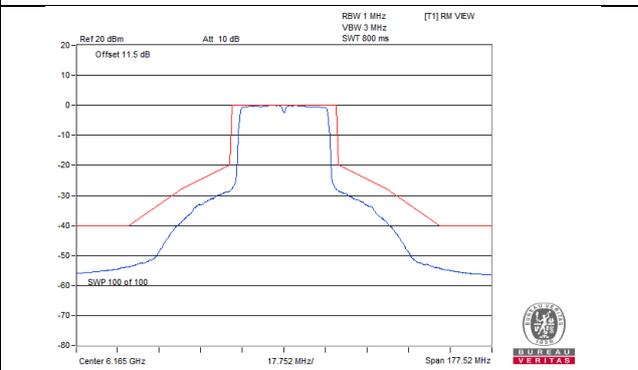
802.11ax (HE40)_Chain 0

Spectrum Plot

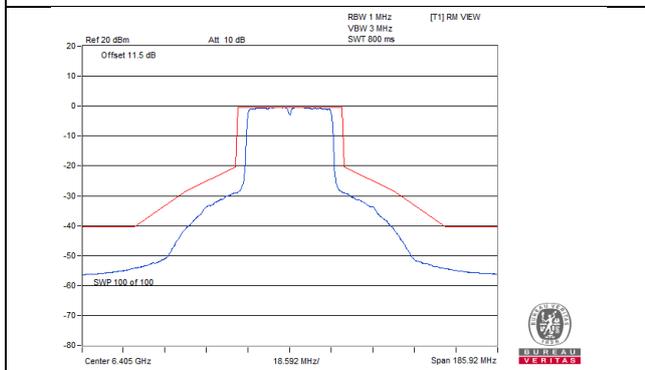
CH 3



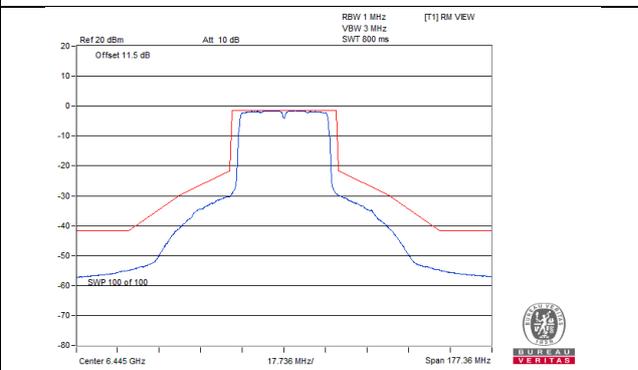
CH 43



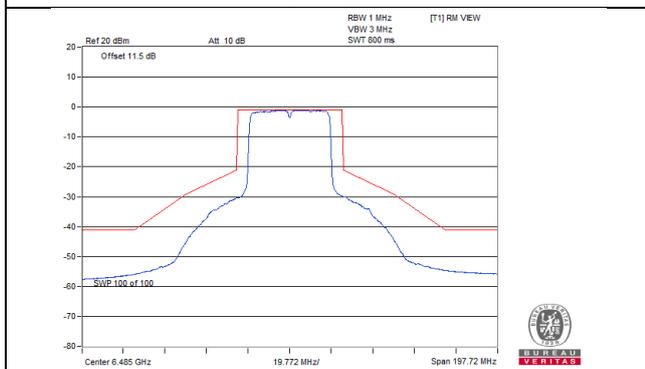
CH 91



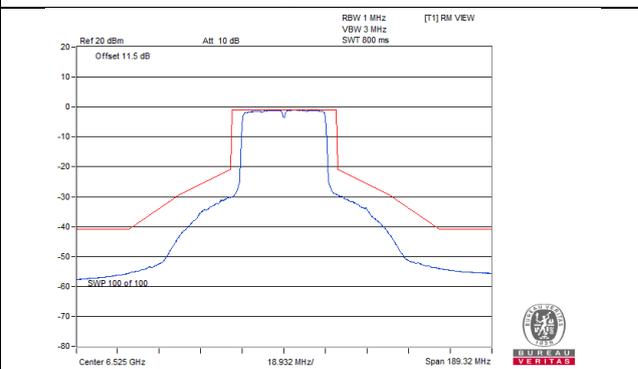
CH 99



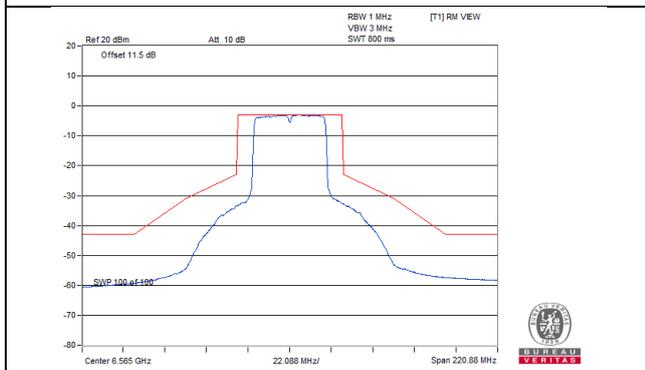
CH 107



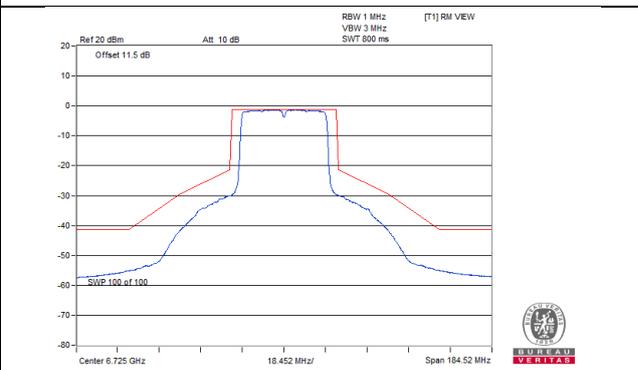
CH 115



CH 123

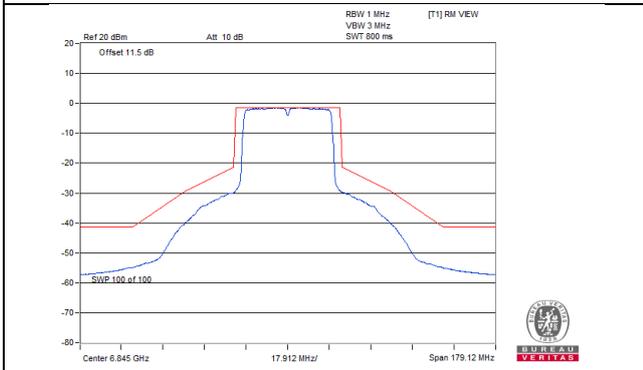


CH 155

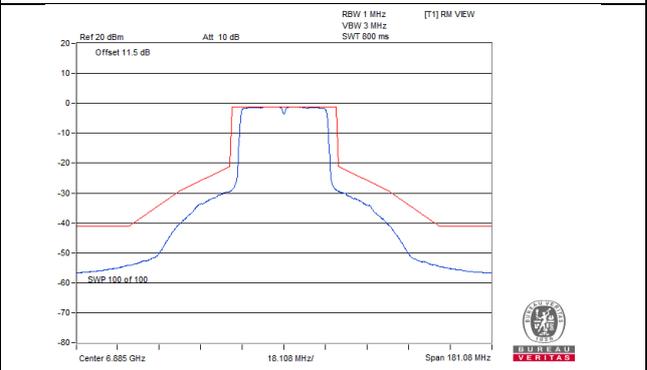


Spectrum Plot

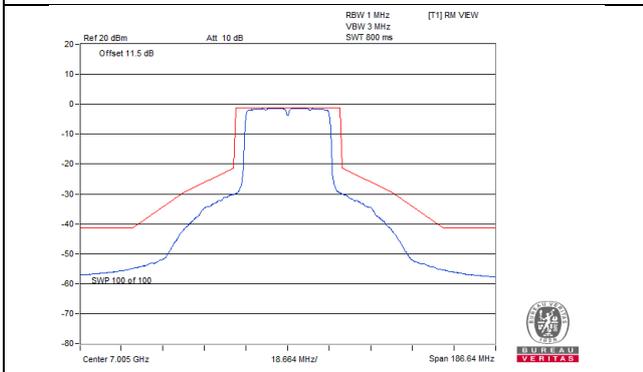
CH 179



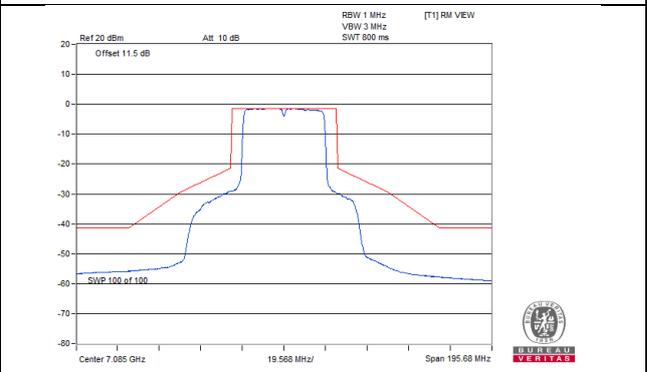
CH 187



CH 211



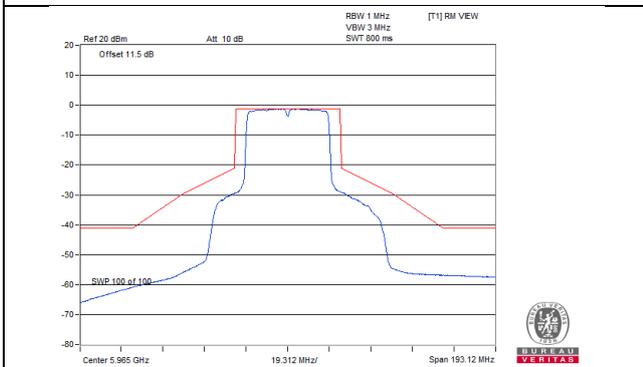
CH 227



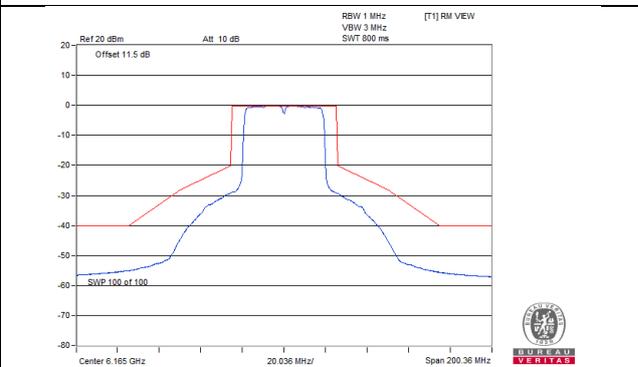
802.11ax (HE40)_Chain 1

Spectrum Plot

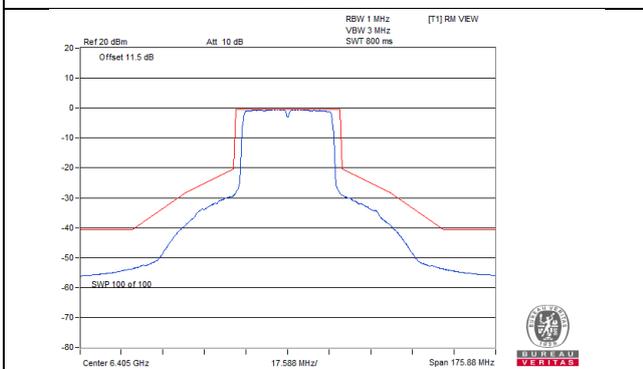
CH 3



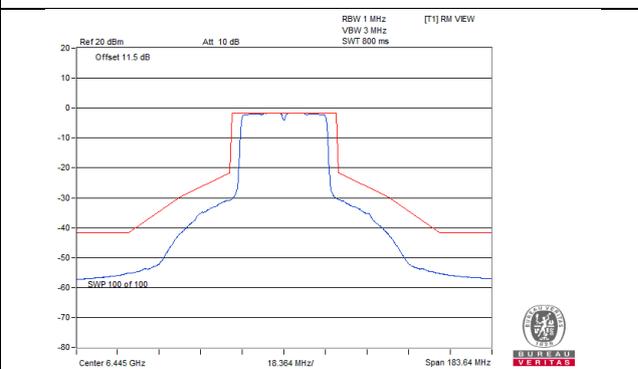
CH 43



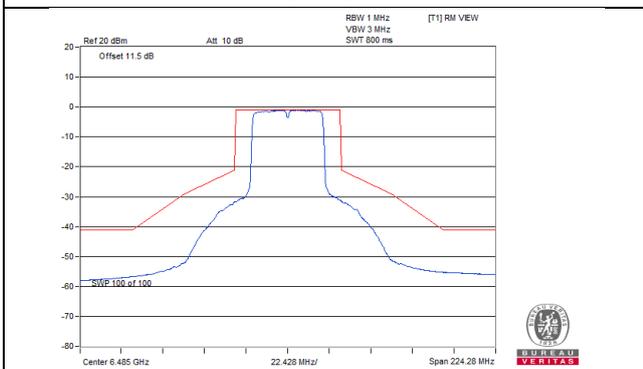
CH 91



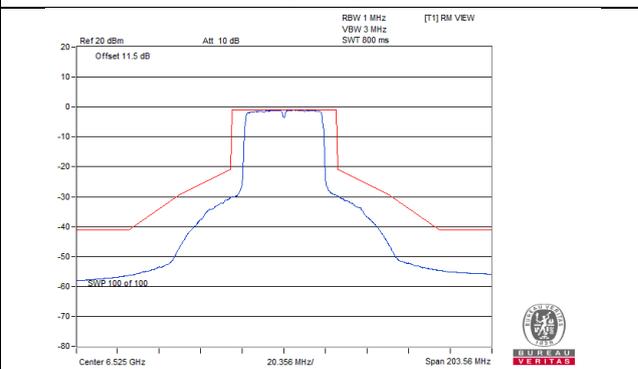
CH 99



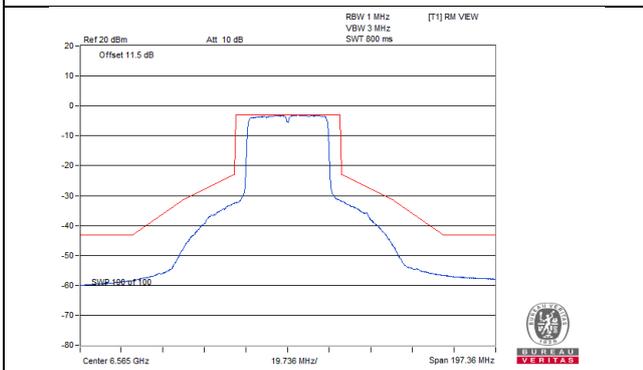
CH 107



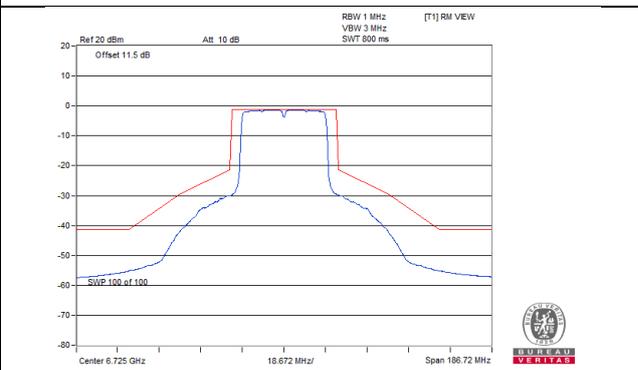
CH 115



CH 123

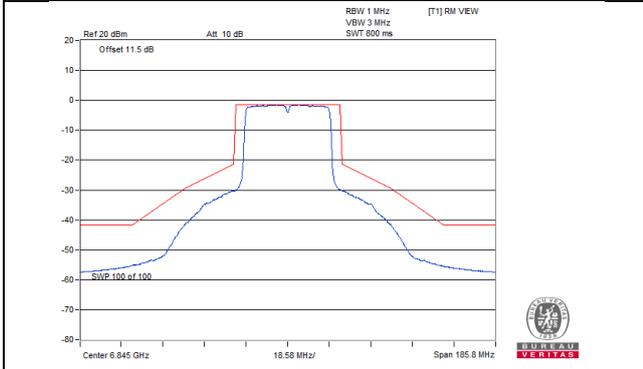


CH 155

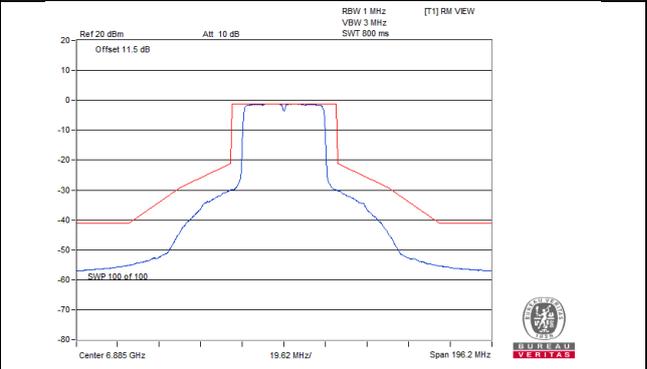


Spectrum Plot

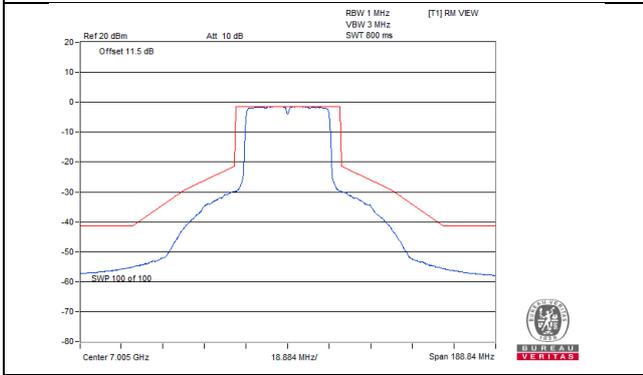
CH 179



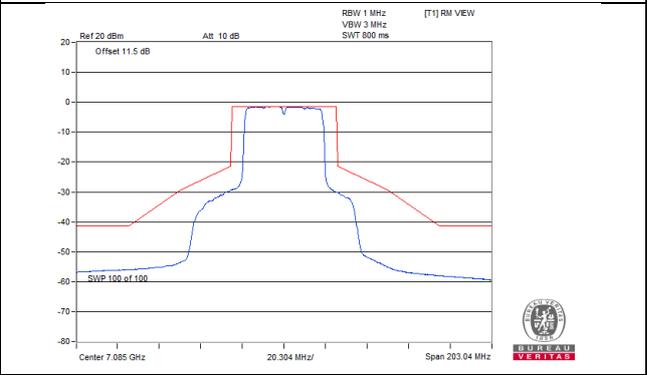
CH 187



CH 211



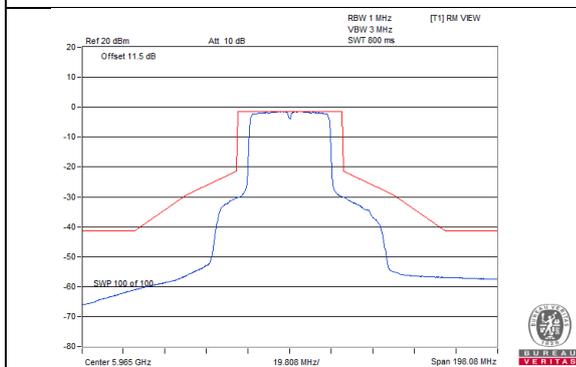
CH 227



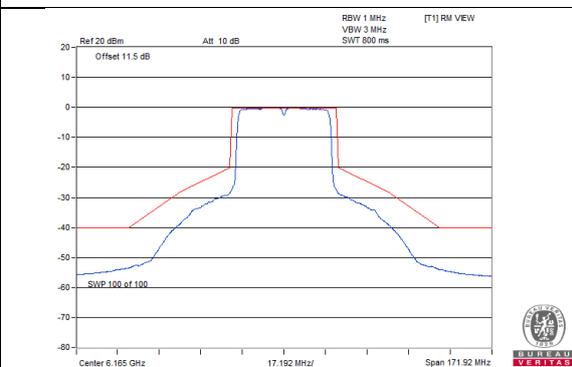
802.11ax (HE40)_Chain 2

Spectrum Plot

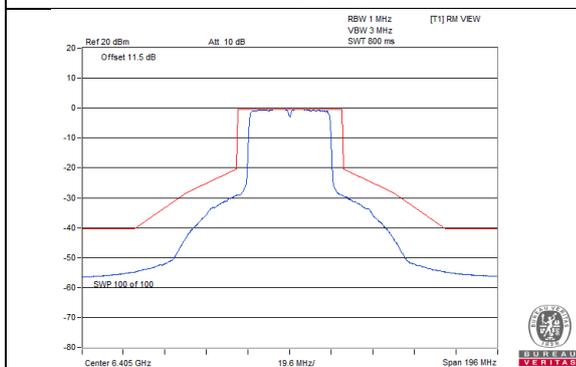
CH 3



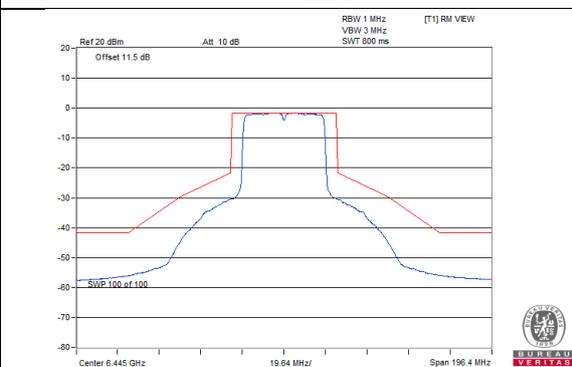
CH 43



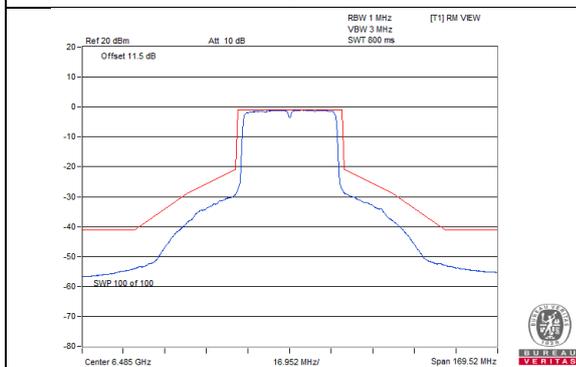
CH 91



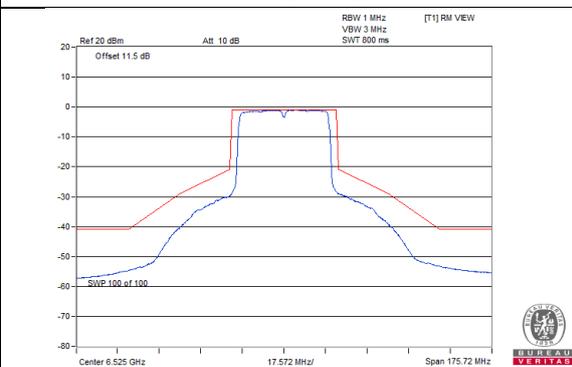
CH 99



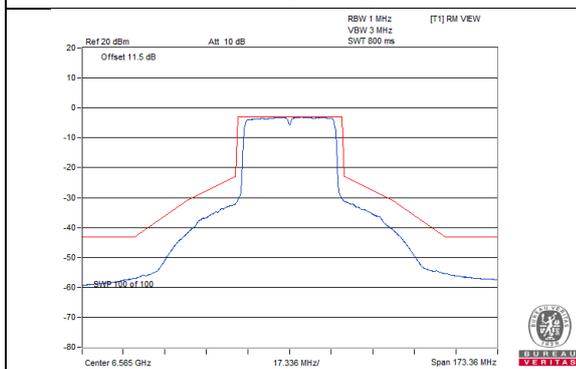
CH 107



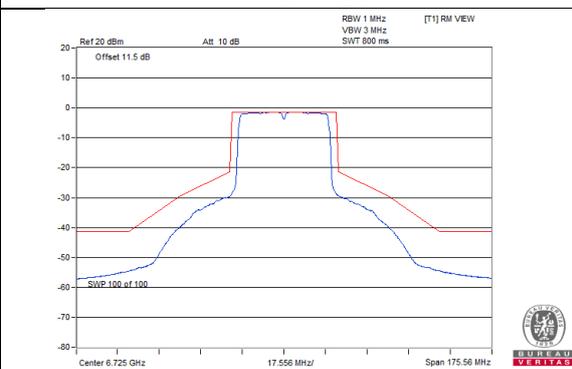
CH 115



CH 123

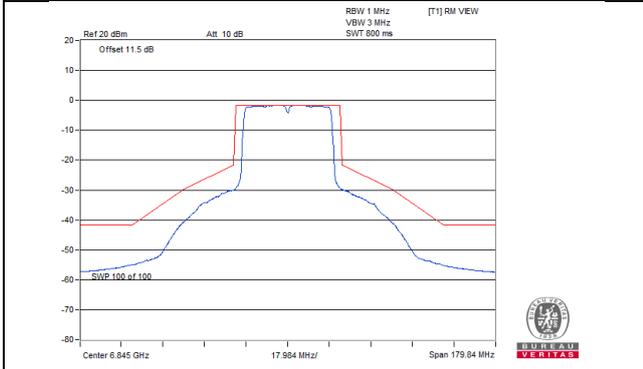


CH 155

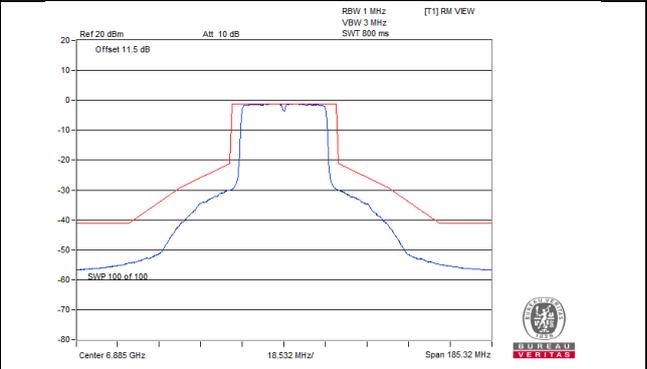


Spectrum Plot

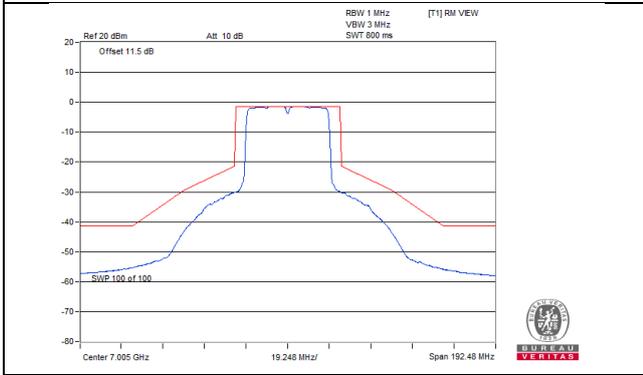
CH 179



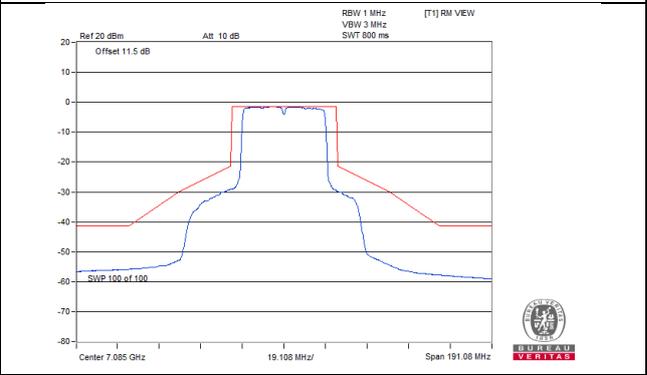
CH 187



CH 211



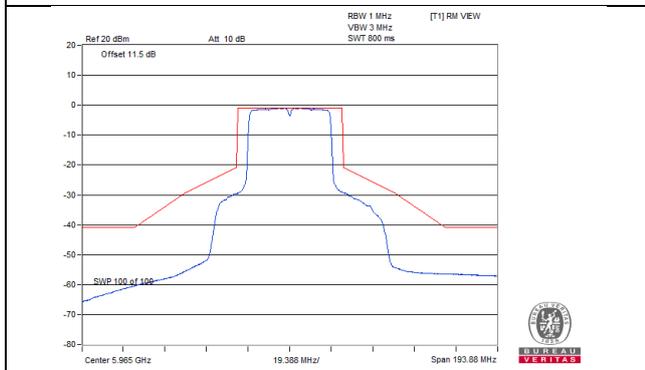
CH 227



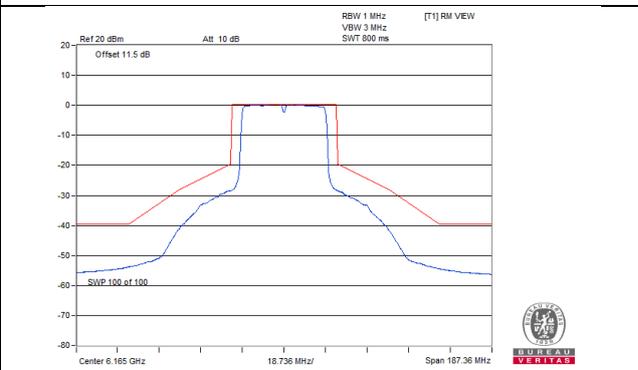
802.11ax (HE40)_Chain 3

Spectrum Plot

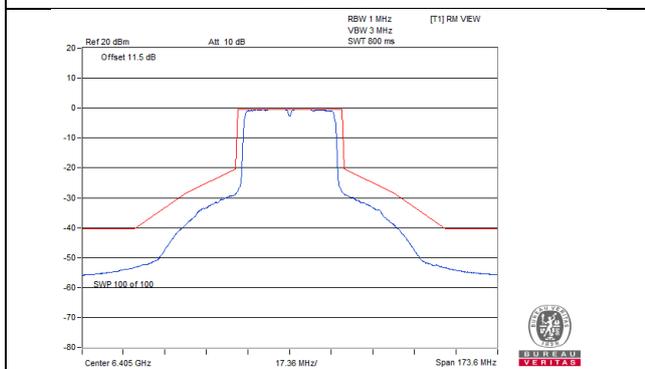
CH 3



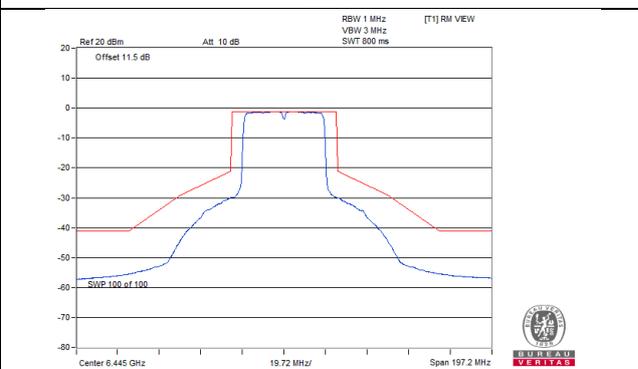
CH 43



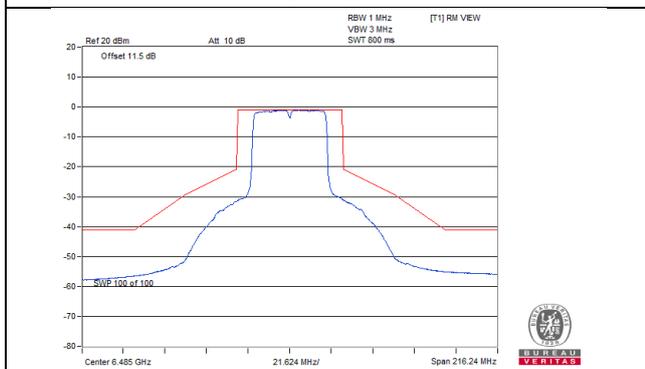
CH 91



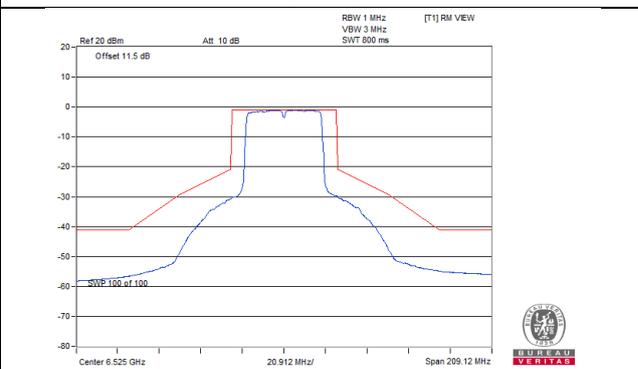
CH 99



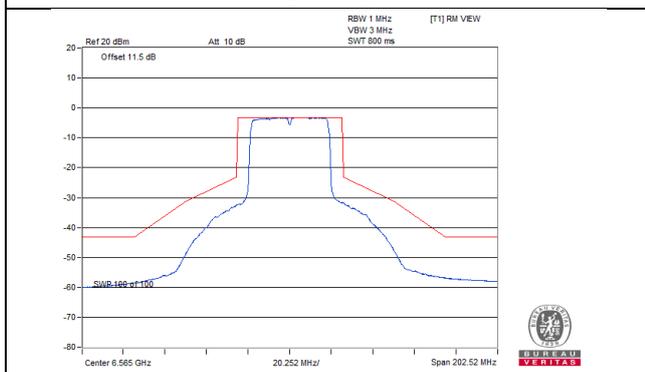
CH 107



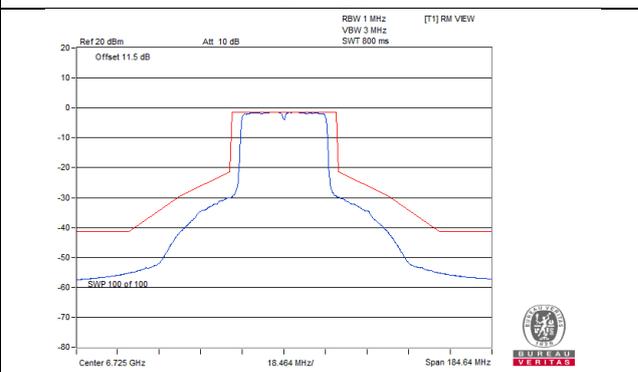
CH 115



CH 123

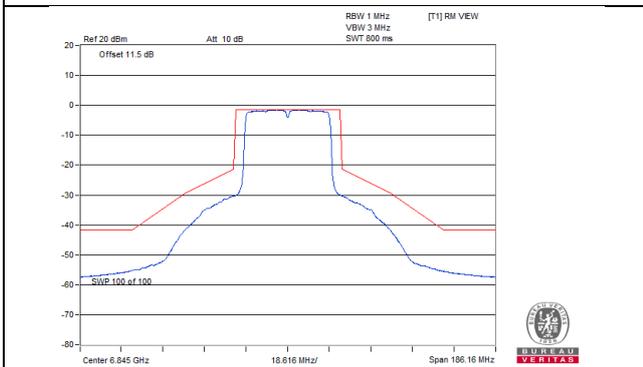


CH 155

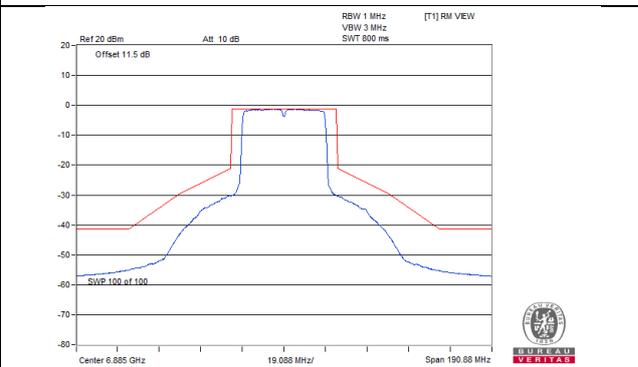


Spectrum Plot

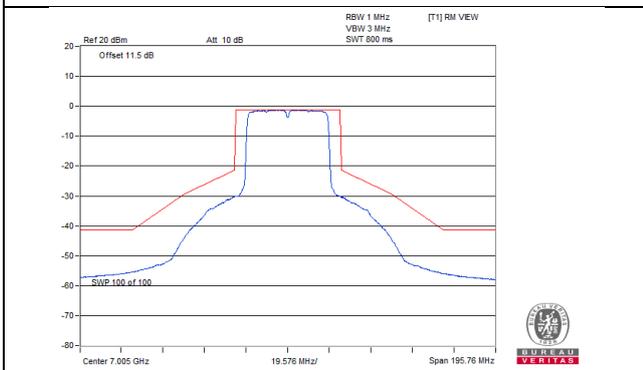
CH 179



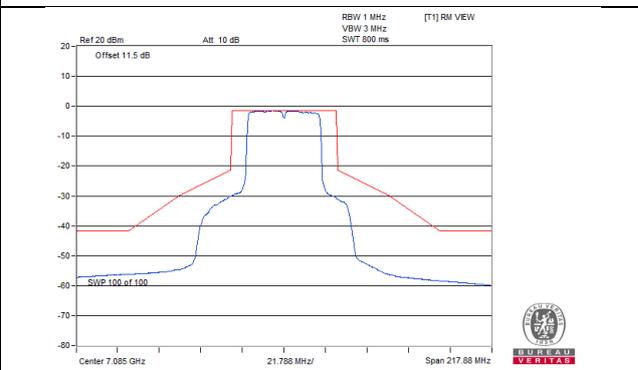
CH 187



CH 211



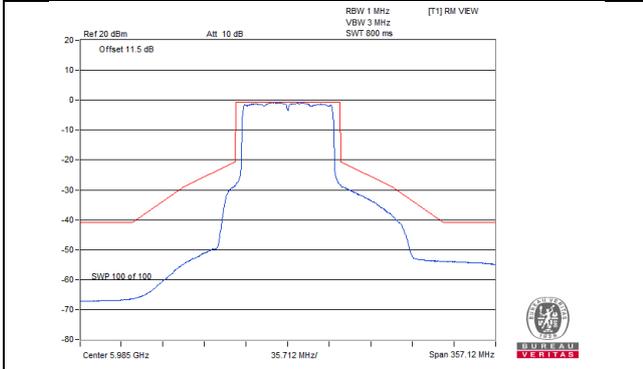
CH 227



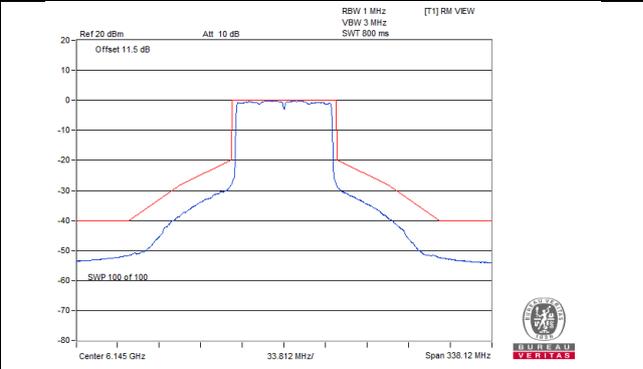
802.11ax (HE80)_Chain 0

Spectrum Plot

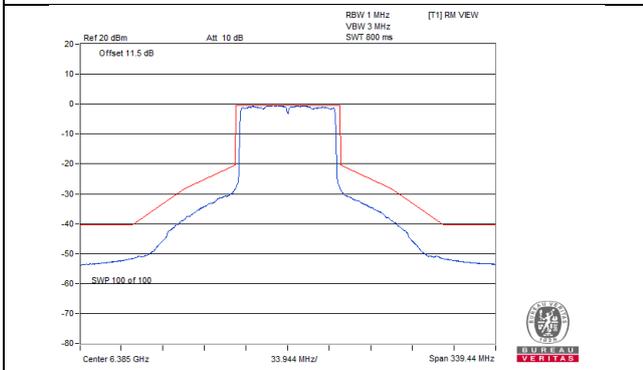
CH 7



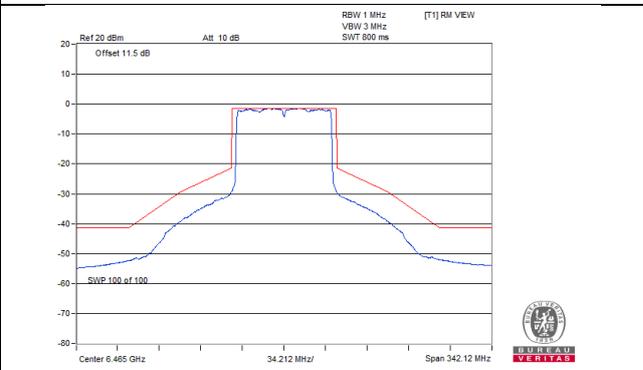
CH 39



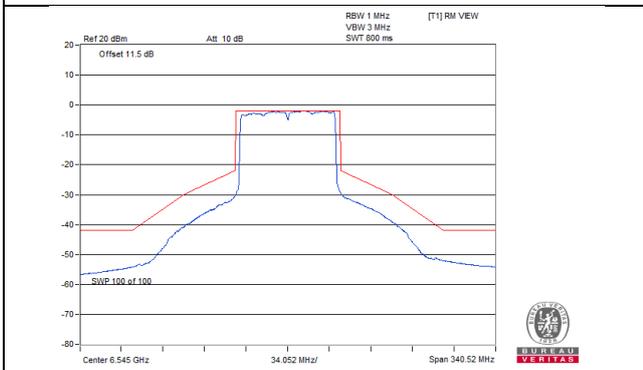
CH 87



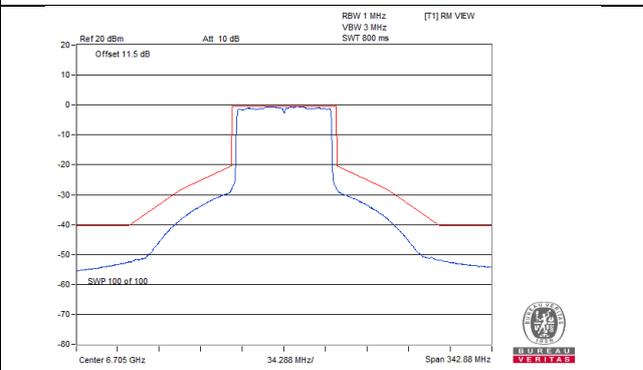
CH 103



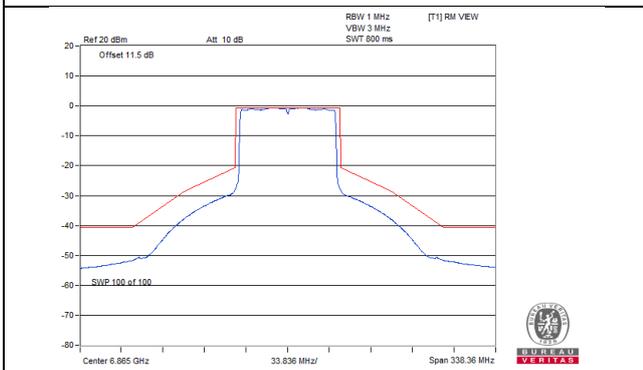
CH 119



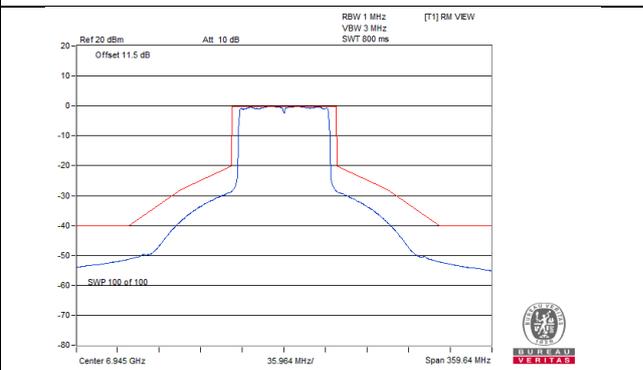
CH 151



CH 183

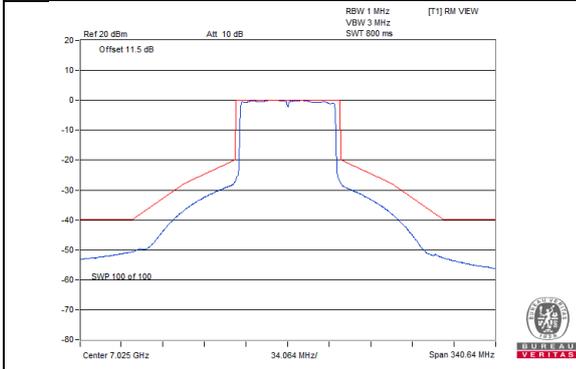


CH 199



Spectrum Plot

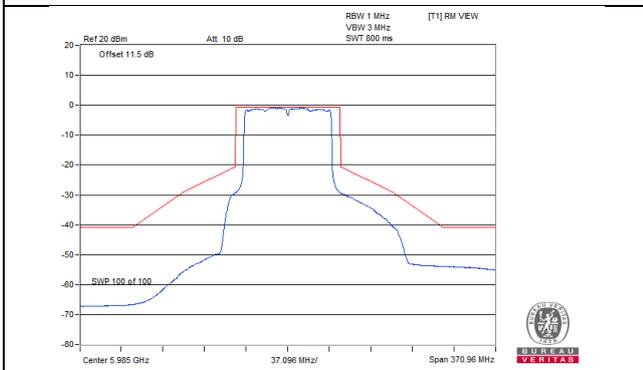
CH 215



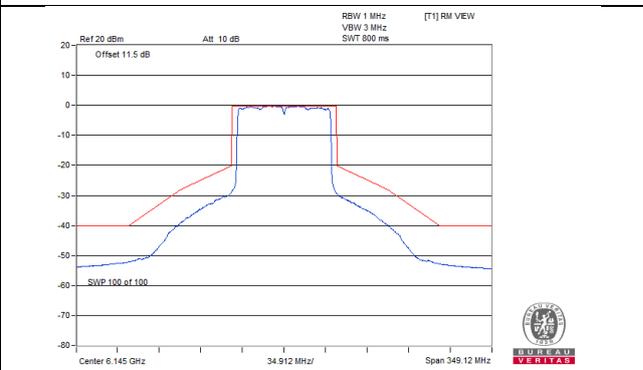
802.11ax (HE80)_Chain 1

Spectrum Plot

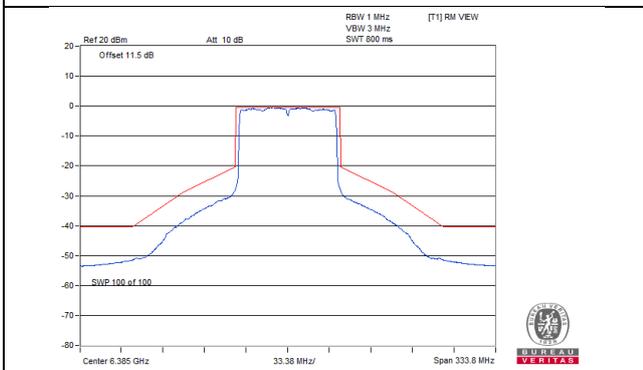
CH 7



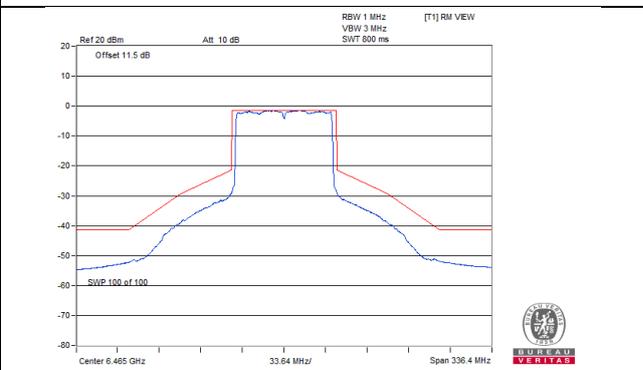
CH 39



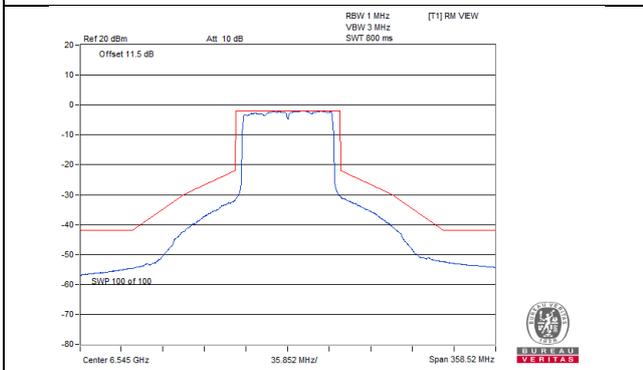
CH 87



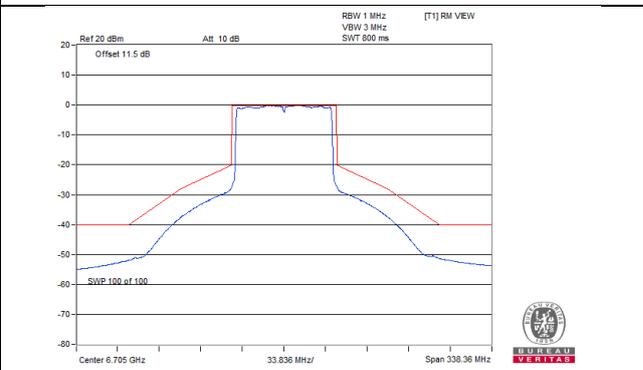
CH 103



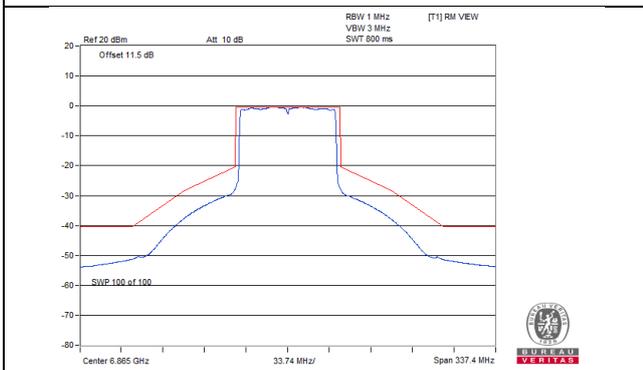
CH 119



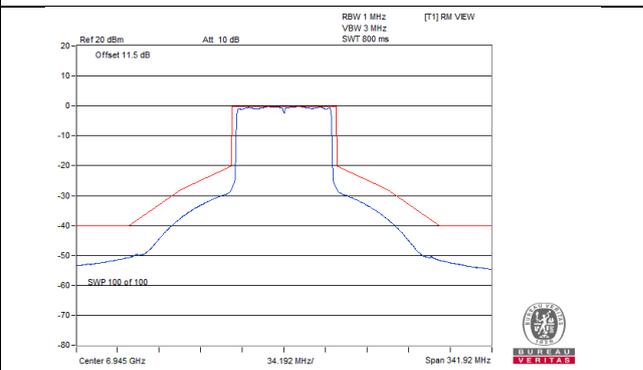
CH 151



CH 183

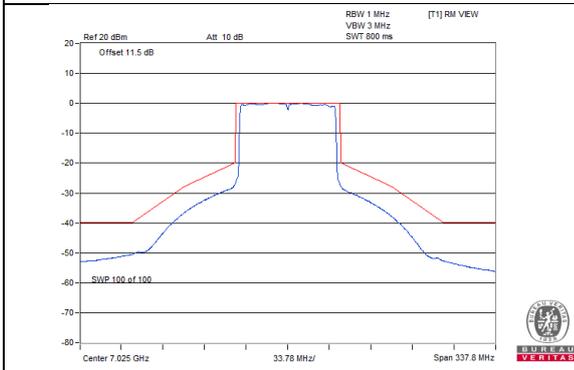


CH 199



Spectrum Plot

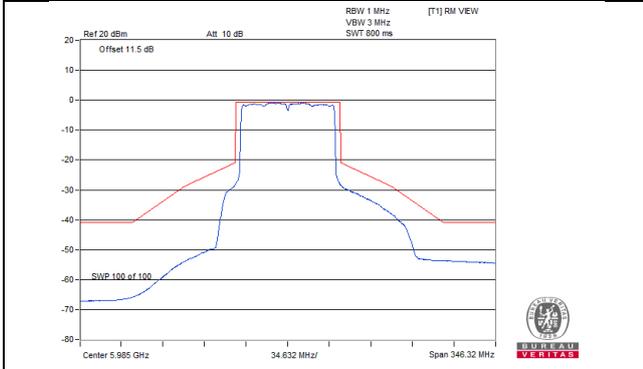
CH 215



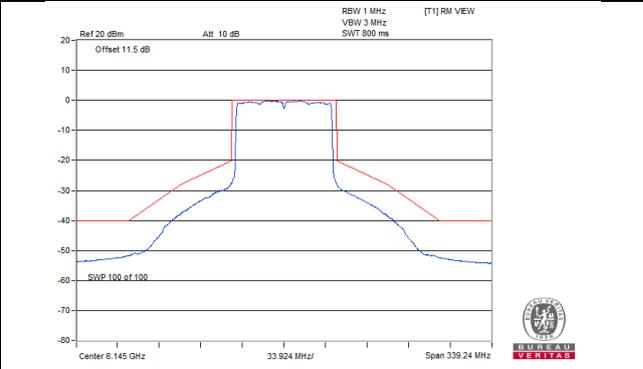
802.11ax (HE80)_Chain 2

Spectrum Plot

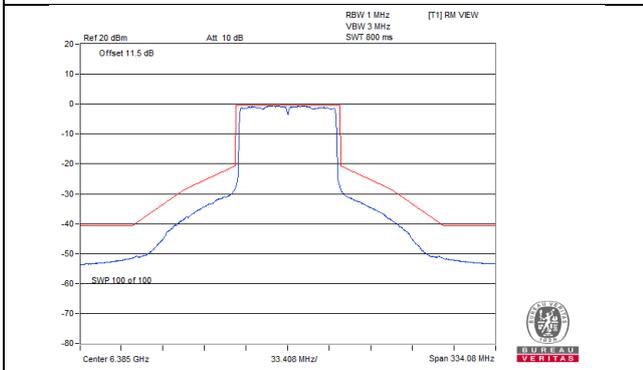
CH 7



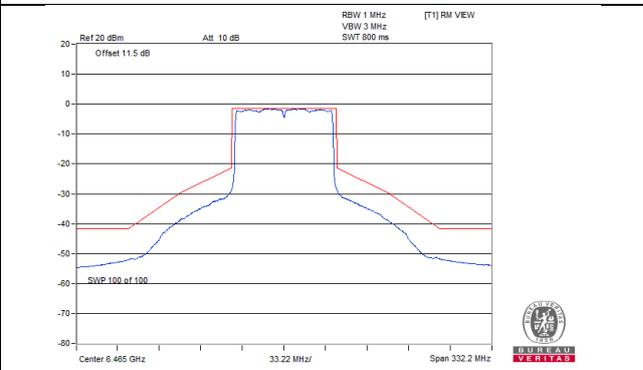
CH 39



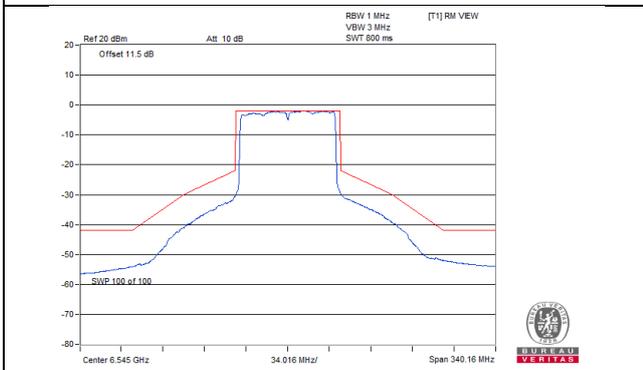
CH 87



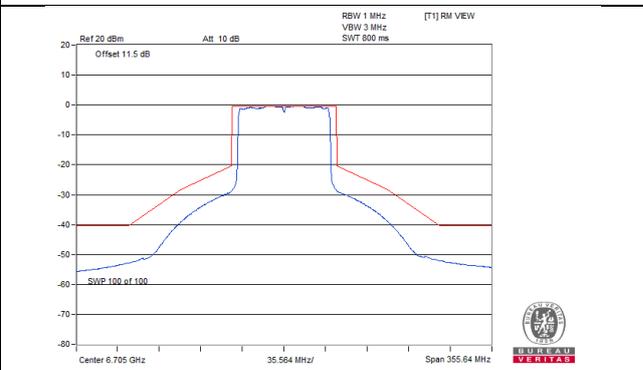
CH 103



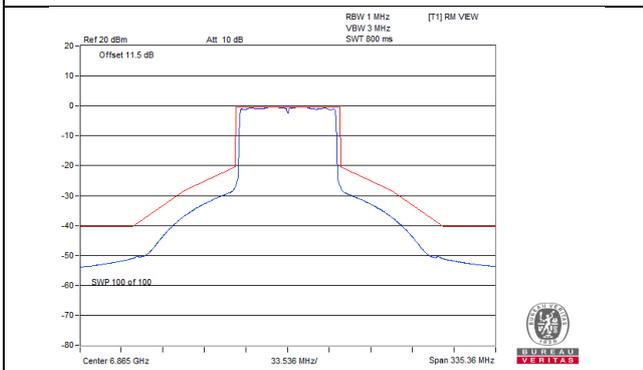
CH 119



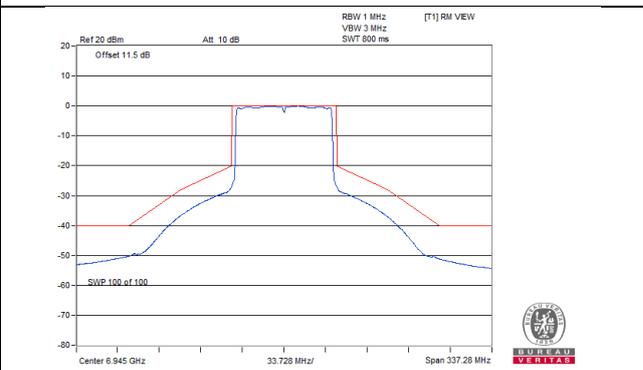
CH 151



CH 183

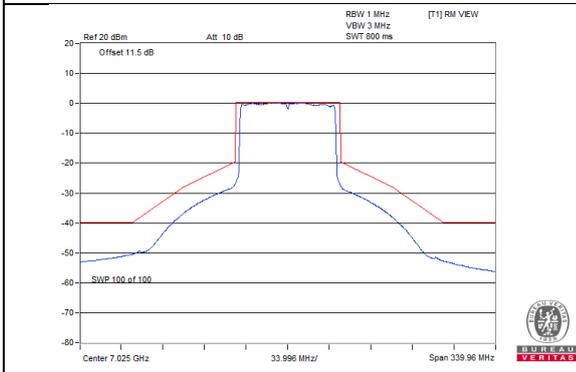


CH 199



Spectrum Plot

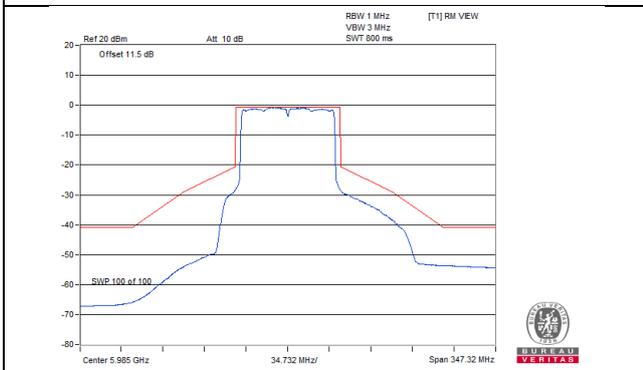
CH 215



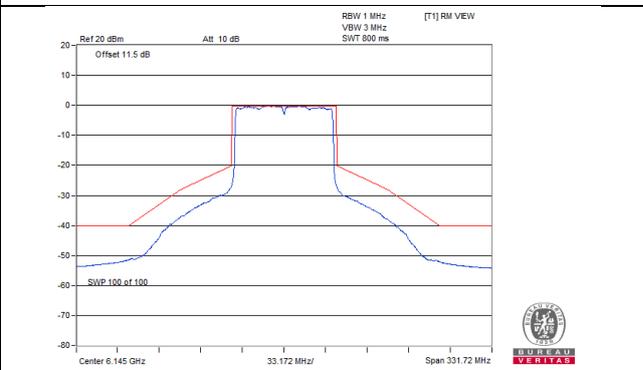
802.11ax (HE80)_Chain 3

Spectrum Plot

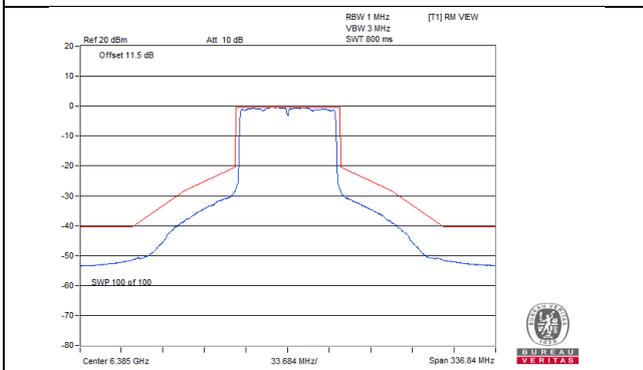
CH 7



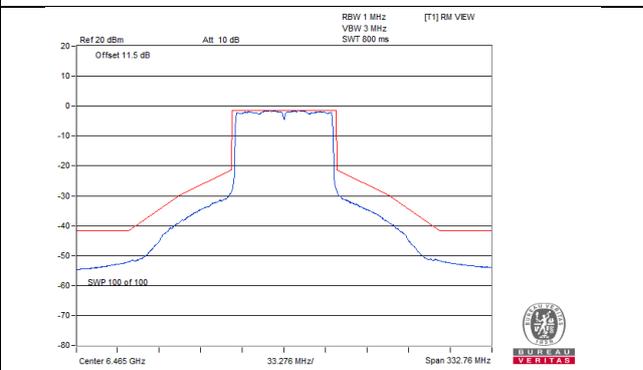
CH 39



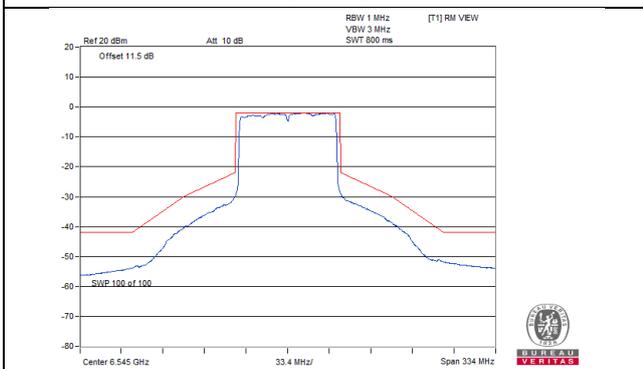
CH 87



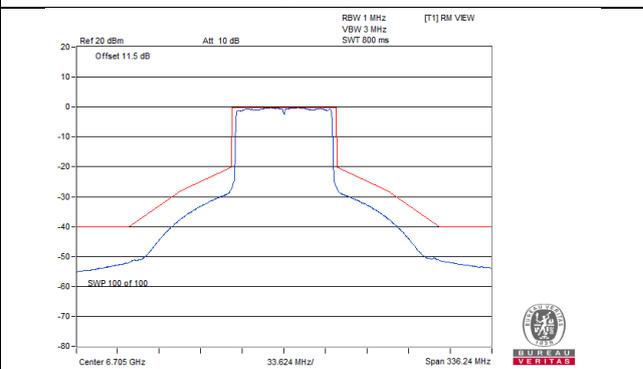
CH 103



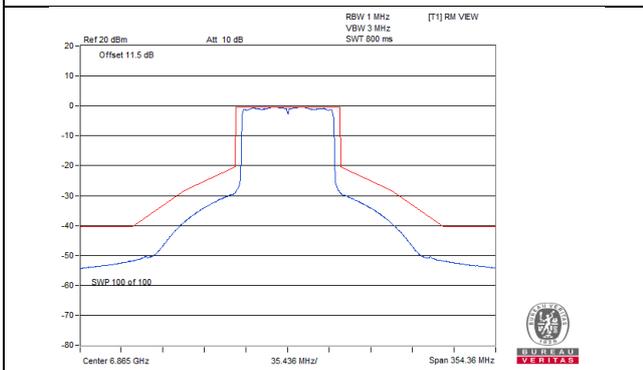
CH 119



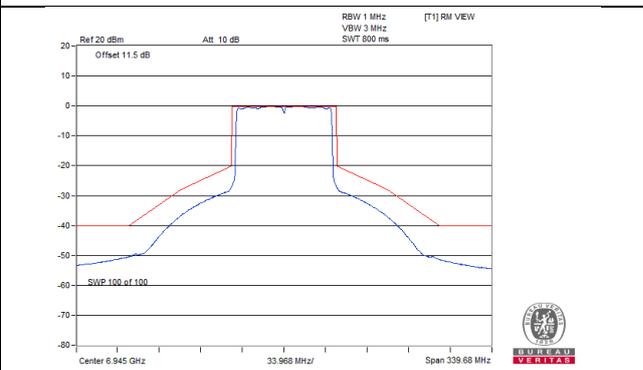
CH 151



CH 183

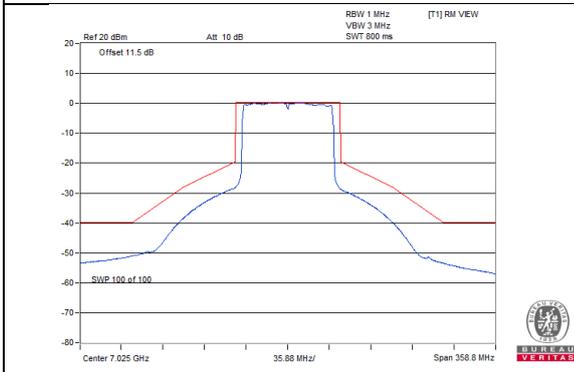


CH 199



Spectrum Plot

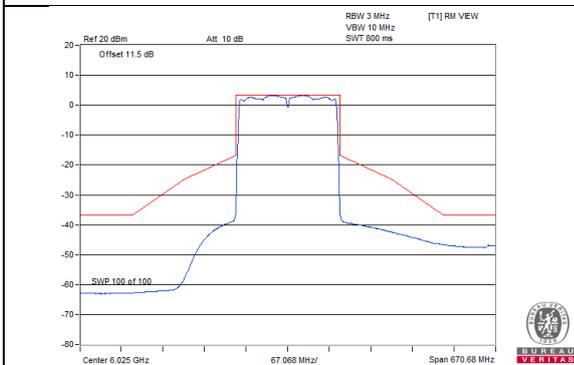
CH 215



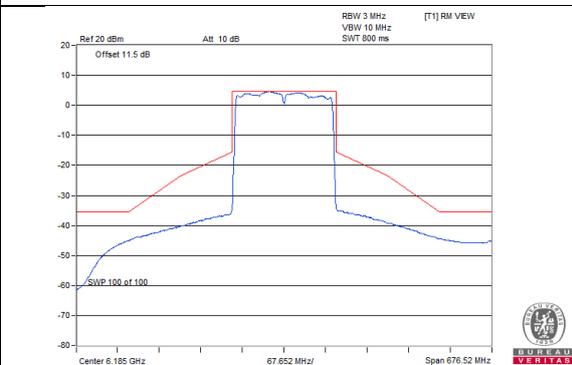
802.11ax (HE160)_Chain 0

Spectrum Plot

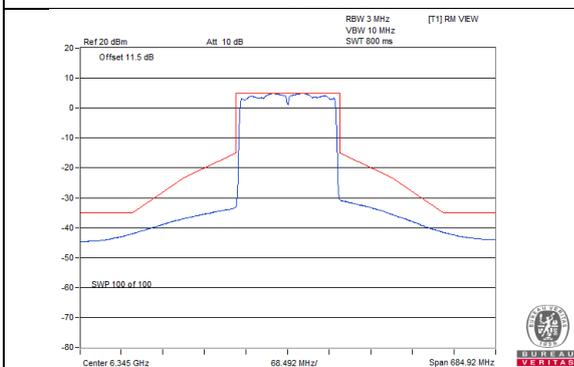
CH 15



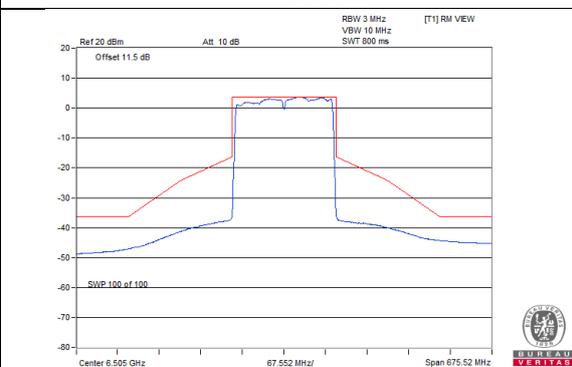
CH 47



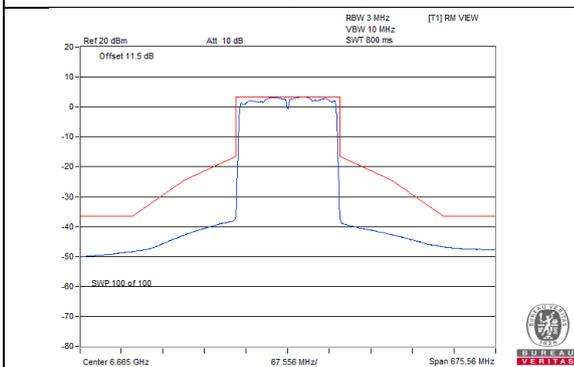
CH 79



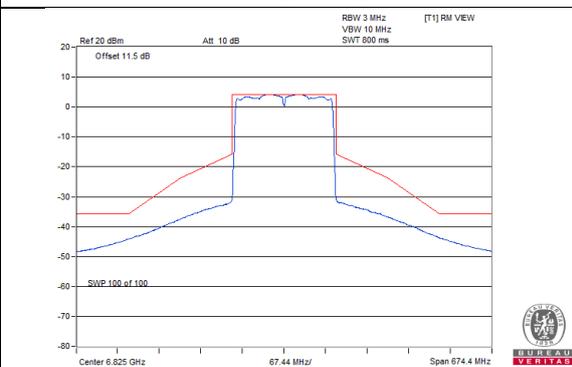
CH 111



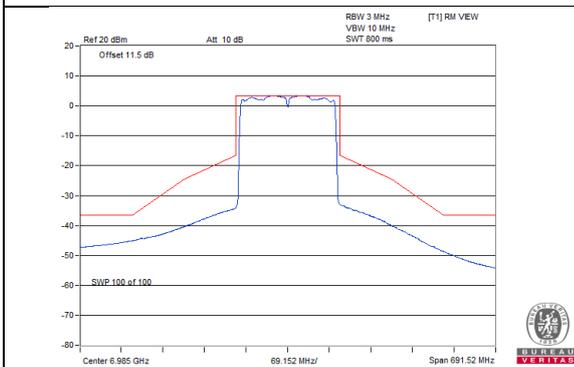
CH 143



CH 175



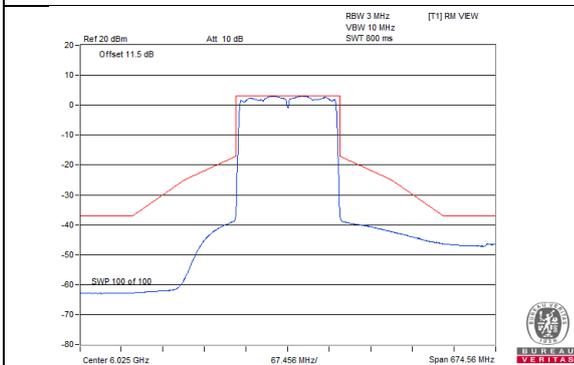
CH 207



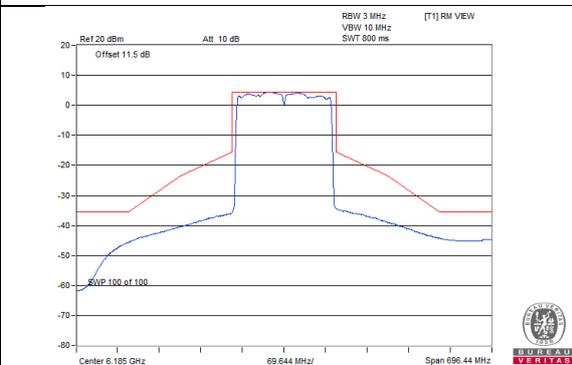
802.11ax (HE160)_Chain 1

Spectrum Plot

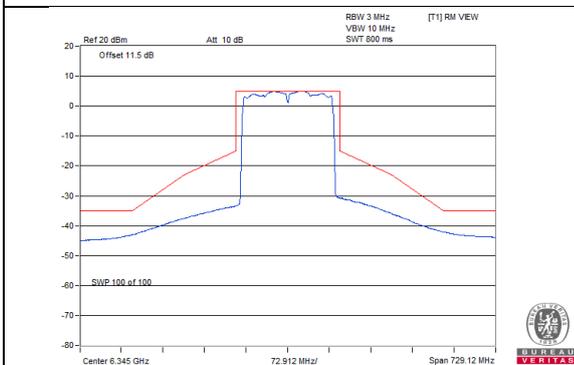
CH 15



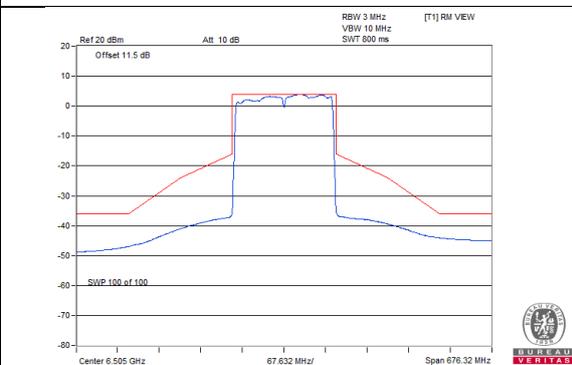
CH 47



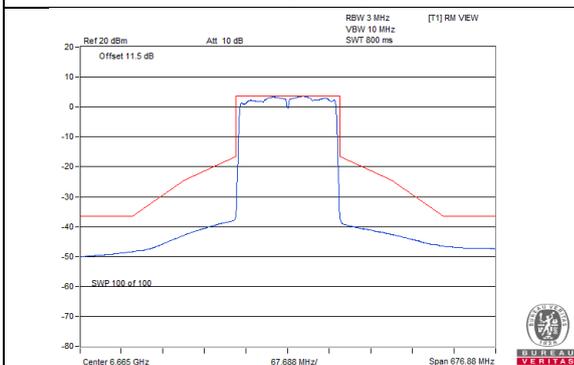
CH 79



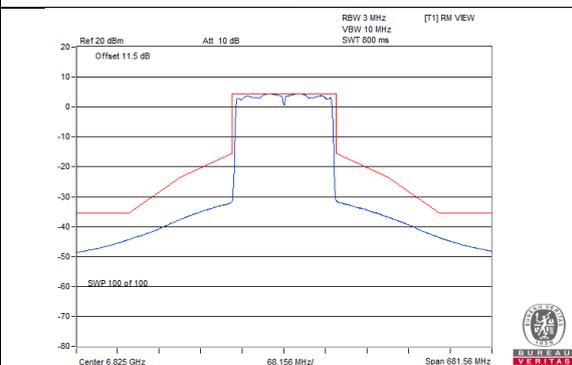
CH 111



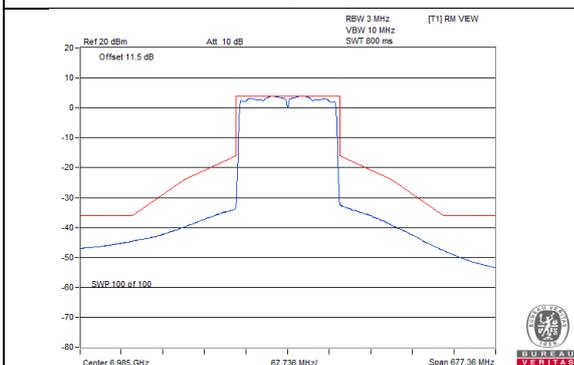
CH 143



CH 175



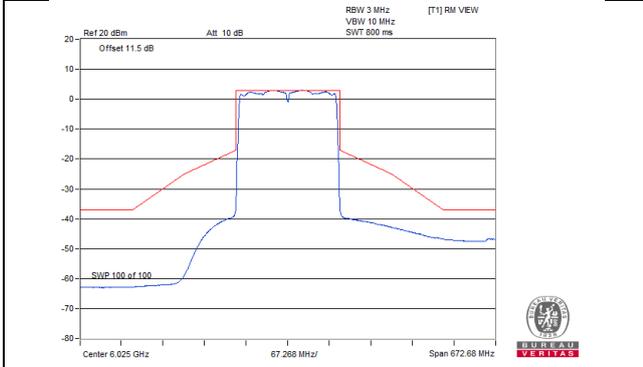
CH 207



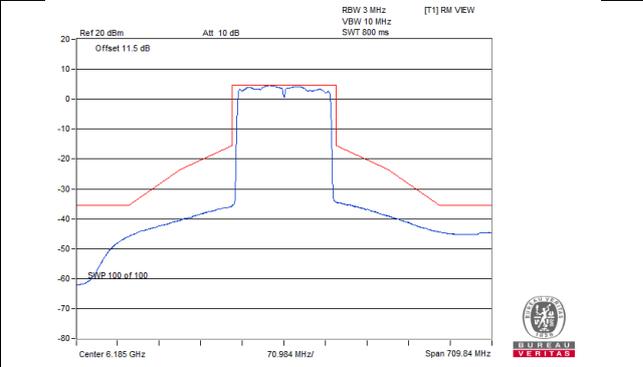
802.11ax (HE160)_Chain 2

Spectrum Plot

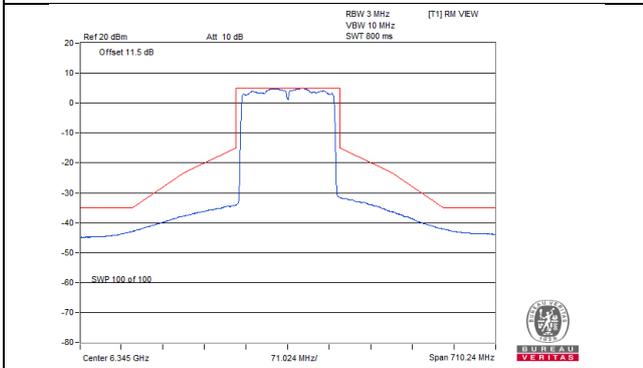
CH 15



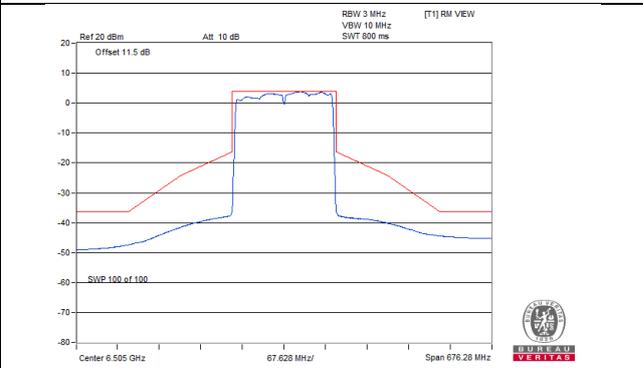
CH 47



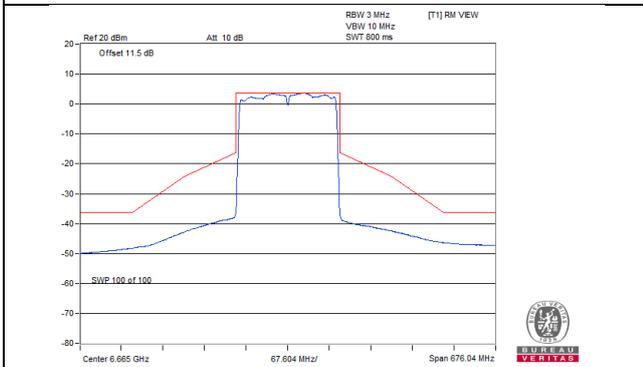
CH 79



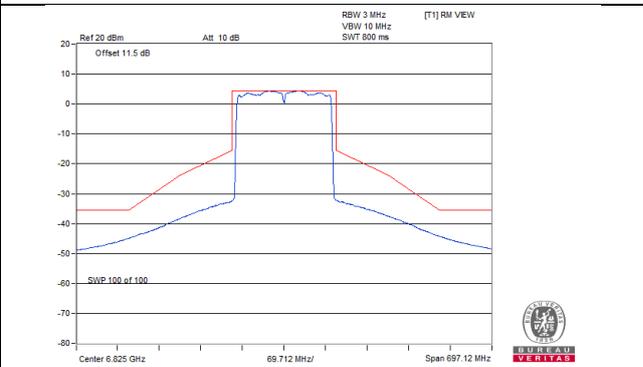
CH 111



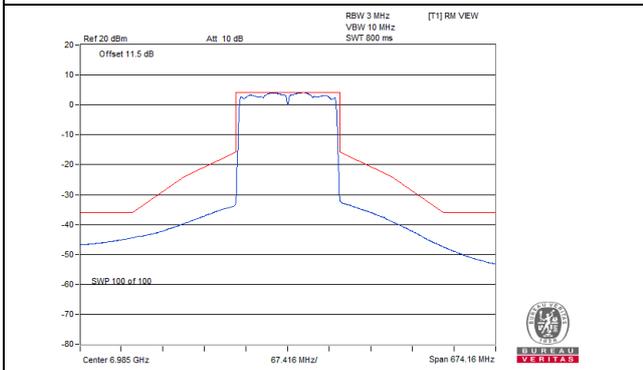
CH 143



CH 175



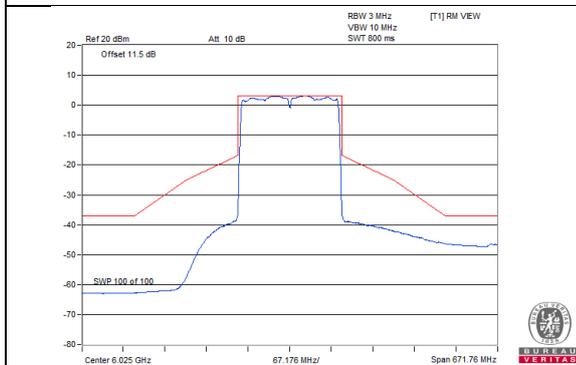
CH 207



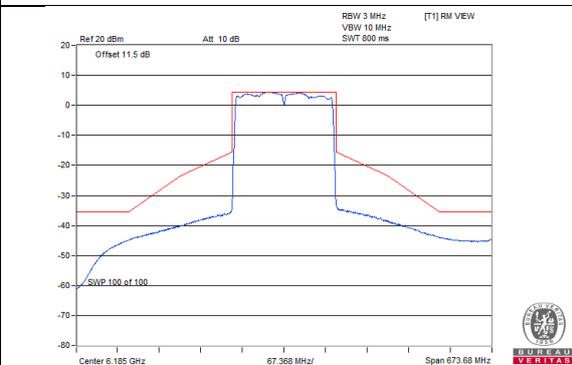
802.11ax (HE160)_Chain 3

Spectrum Plot

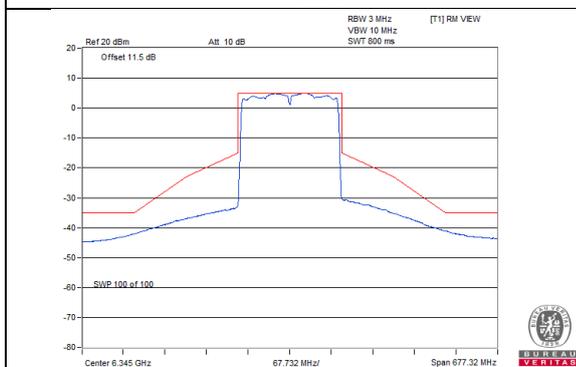
CH 15



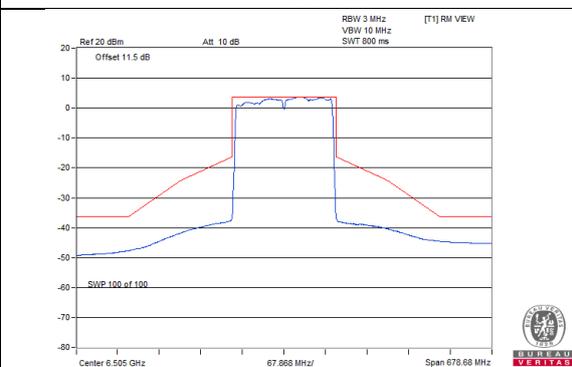
CH 47



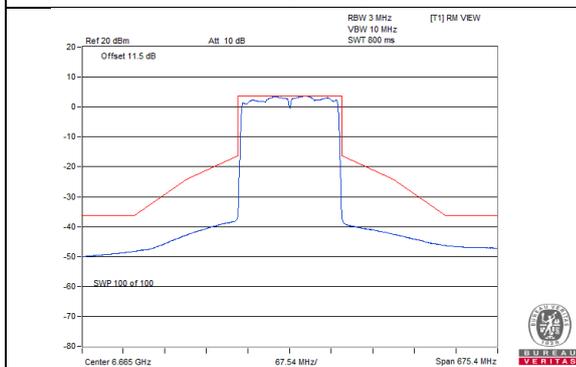
CH 79



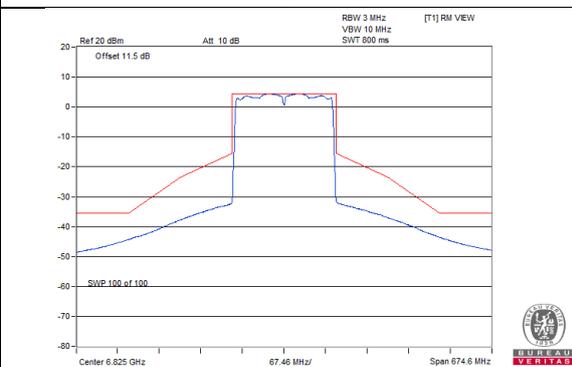
CH 111



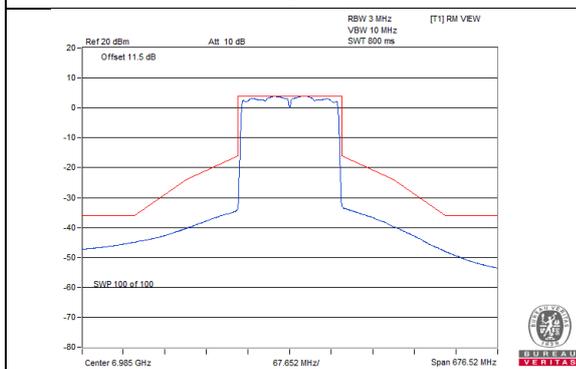
CH 143



CH 175



CH 207



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

4.3.2 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver ROHDE & SCHWARZ	ESCI	100613	2021/12/3	2022/12/2
RF signal cable Woken	5D-FB	Cable-cond1-01	2022/1/15	2023/1/14
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	2022/3/14	2023/3/13
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	2022/9/12	2023/9/11
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Notes:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1. (Conduction 1)
3. The VCCI Site Registration No. is C-12040.
4. Test Date: 2022/11/18

4.3.3 Test Procedures

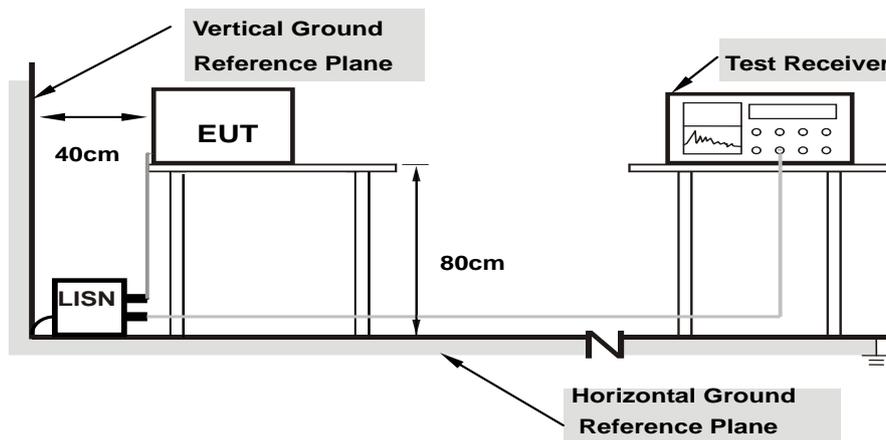
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

4.3.4 Deviation from Test Standard

No deviation.

4.3.5 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).

4.3.6 EUT Operating Conditions

Same as 4.1.6.

4.3.7 Test Results

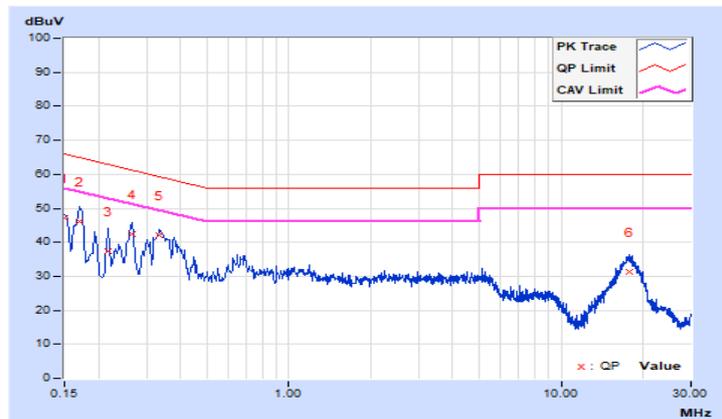
CDD Mode

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66% RH
Tested by	Titan Hsu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.68	37.58	32.54	47.26	42.22	66.00	56.00	-18.74	-13.78
2	0.17000	9.70	36.49	24.41	46.19	34.11	64.96	54.96	-18.77	-20.85
3	0.21800	9.73	27.67	15.45	37.40	25.18	62.89	52.89	-25.49	-27.71
4	0.26569	9.75	32.72	27.01	42.47	36.76	61.25	51.25	-18.78	-14.49
5	0.33400	9.77	32.48	24.47	42.25	34.24	59.35	49.35	-17.10	-15.11
6	17.91800	10.14	21.08	12.20	31.22	22.34	60.00	50.00	-28.78	-27.66

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

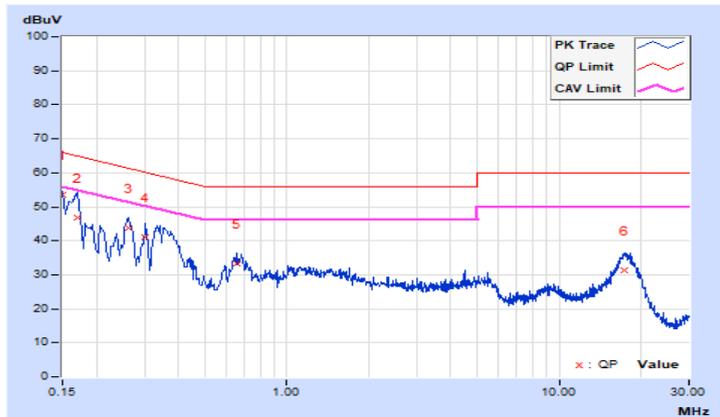


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23 °C, 66% RH
Tested by	Titan Hsu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.68	43.85	32.15	53.53	41.83	66.00	56.00	-12.47	-14.17
2	0.16977	9.70	37.10	24.49	46.80	34.19	64.97	54.97	-18.17	-20.78
3	0.26152	9.75	33.91	27.92	43.66	37.67	61.38	51.38	-17.72	-13.71
4	0.30200	9.77	31.20	20.51	40.97	30.28	60.19	50.19	-19.22	-19.91
5	0.65800	9.83	23.36	17.82	33.19	27.65	56.00	46.00	-22.81	-18.35
6	17.43800	10.17	21.01	12.46	31.18	22.63	60.00	50.00	-28.82	-27.37

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

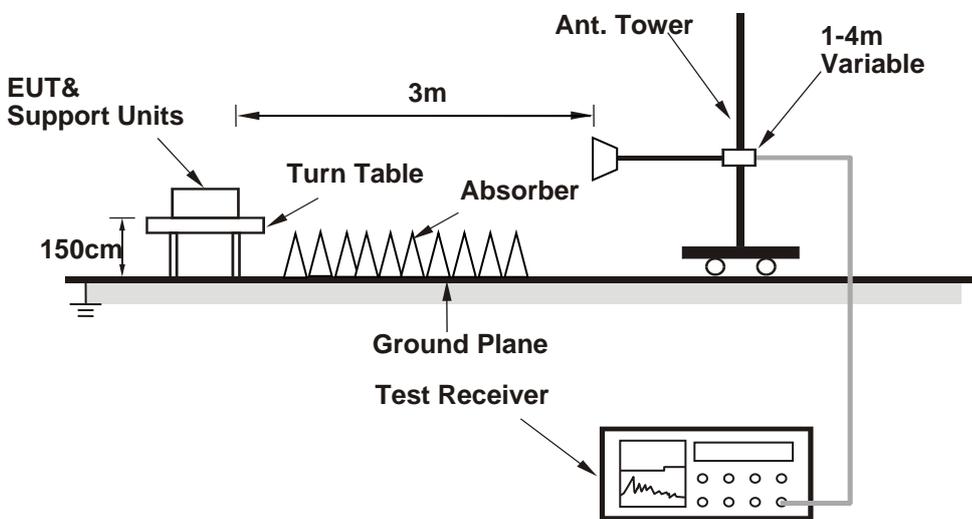


4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Indoor AP	EIRP 30 dBm

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

- a. 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.
- 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. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- e. Follow ANSI 63.10 and KDB 412172 D01 v01r01, EIRP Value (dBm) = Field Strength Value (dB μ V/m) + Correction Factor @ 3m.
- f. Correction Factor (dB) @ 3m = $20\log(D) - 104.7$; where D is the measurement distance @3m = -95.23dB

Note: Spectrum analyzer setting as below:

Method SA-1

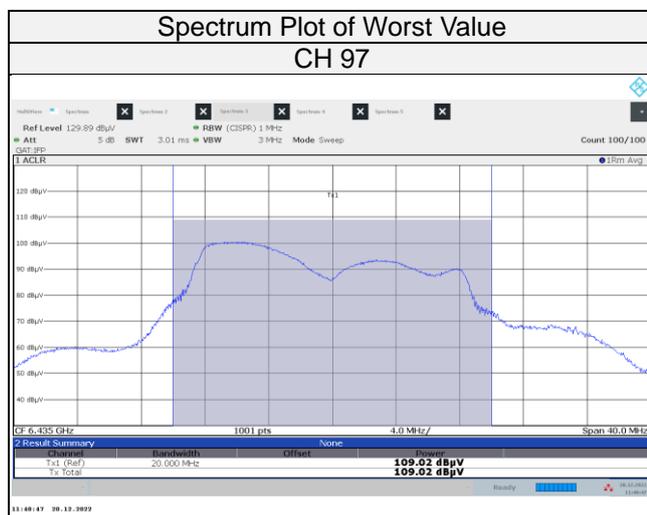
1. Set span to encompass the entire 99% occupied bandwidth of the signal.
2. Set RBW =1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent) ; Set video trigger (duty cycle < 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal.

4.4.5 Test Result

CDD Mode

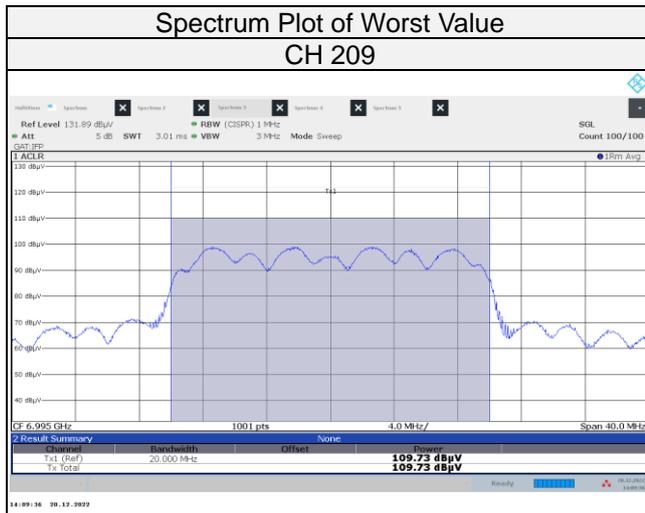
802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	108.95	-95.23	23.55	13.72	30	Pass
45	6175	108.12	-95.23	19.454	12.89	30	Pass
93	6415	107.85	-95.23	18.281	12.62	30	Pass
97	6435	109.02	-95.23	23.933	13.79	30	Pass
105	6475	108.87	-95.23	23.121	13.64	30	Pass
113	6515	108.49	-95.23	21.184	13.26	30	Pass
117	6535	107.05	-95.23	15.205	11.82	30	Pass
149	6695	107.24	-95.23	15.885	12.01	30	Pass
181	6855	108.16	-95.23	19.634	12.93	30	Pass
185	6875	108.49	-95.23	21.184	13.26	30	Pass
209	6995	108.47	-95.23	21.086	13.24	30	Pass
233	7115	104.68	-95.23	8.81	9.45	30	Pass



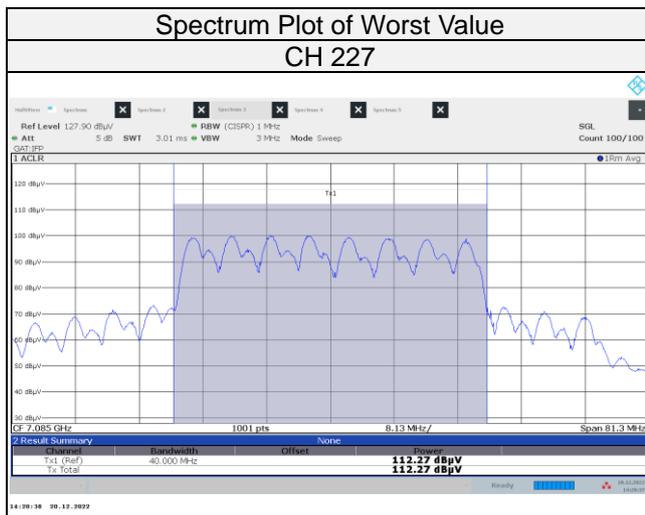
802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	107.95	-95.23	18.707	12.72	30	Pass
45	6175	107.25	-95.23	15.922	12.02	30	Pass
93	6415	107.98	-95.23	18.836	12.75	30	Pass
97	6435	108.49	-95.23	21.184	13.26	30	Pass
105	6475	108.24	-95.23	19.999	13.01	30	Pass
113	6515	108.61	-95.23	21.777	13.38	30	Pass
117	6535	107.42	-95.23	16.558	12.19	30	Pass
149	6695	107.56	-95.23	17.1	12.33	30	Pass
181	6855	109.37	-95.23	25.942	14.14	30	Pass
185	6875	109.57	-95.23	27.164	14.34	30	Pass
209	6995	109.73	-95.23	28.184	14.50	30	Pass
233	7115	99.06	-95.23	2.415	3.83	30	Pass



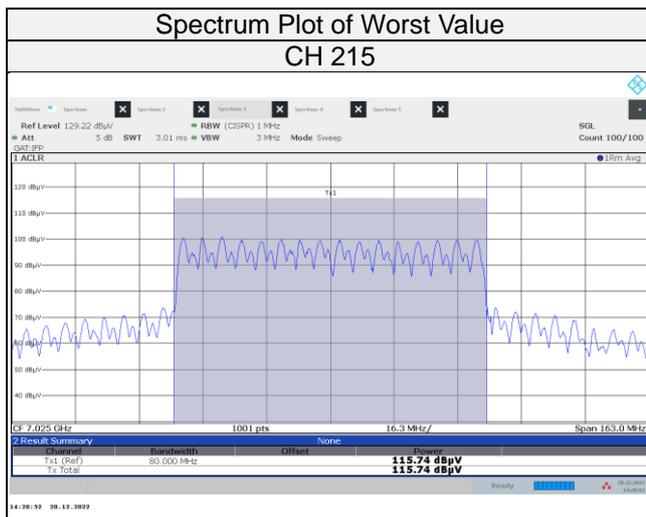
802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	110.52	-95.23	33.806	15.29	30	Pass
43	6165	110.79	-95.23	35.975	15.56	30	Pass
91	6405	112.25	-95.23	50.35	17.02	30	Pass
99	6445	111.71	-95.23	44.463	16.48	30	Pass
107	6485	111.15	-95.23	39.084	15.92	30	Pass
115	6525	111.44	-95.23	41.783	16.21	30	Pass
123	6565	110.41	-95.23	32.961	15.18	30	Pass
155	6725	111.05	-95.23	38.194	15.82	30	Pass
179	6845	111.36	-95.23	41.02	16.13	30	Pass
187	6885	112.08	-95.23	48.417	16.85	30	Pass
211	7005	111.54	-95.23	42.756	16.31	30	Pass
227	7085	112.27	-95.23	50.582	17.04	30	Pass



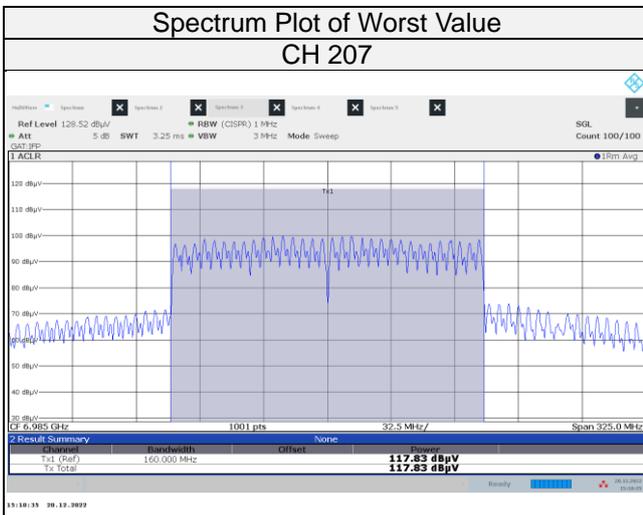
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	114.05	-95.23	76.208	18.82	30	Pass
39	6145	113.41	-95.23	65.766	18.18	30	Pass
87	6385	115.03	-95.23	95.499	19.80	30	Pass
103	6465	114.12	-95.23	77.446	18.89	30	Pass
119	6545	113.72	-95.23	70.632	18.49	30	Pass
151	6705	113.45	-95.23	66.374	18.22	30	Pass
183	6865	114.92	-95.23	93.111	19.69	30	Pass
199	6945	115.48	-95.23	105.925	20.25	30	Pass
215	7025	115.74	-95.23	112.46	20.51	30	Pass



802.11ax (HE160)

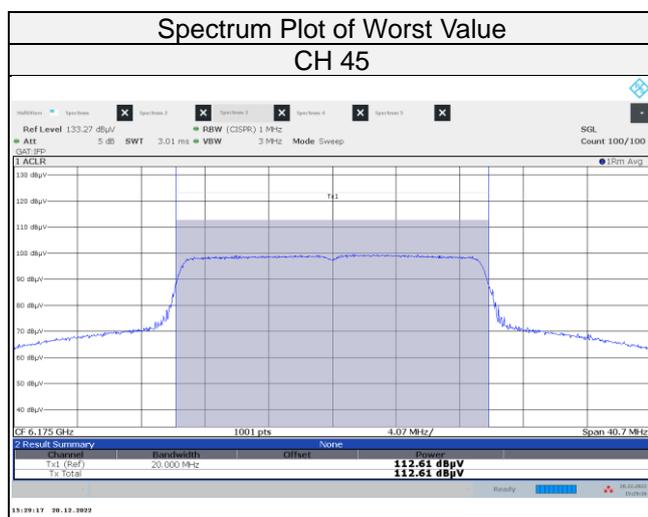
Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	115.95	-95.23	118.032	20.72	30	Pass
47	6185	115.93	-95.23	117.49	20.70	30	Pass
79	6345	117.57	-95.23	171.396	22.34	30	Pass
111	6505	116.63	-95.23	138.038	21.40	30	Pass
143	6665	115.98	-95.23	118.85	20.75	30	Pass
175	6825	117.38	-95.23	164.059	22.15	30	Pass
207	6985	117.83	-95.23	181.97	22.60	30	Pass



Beamforming Mode

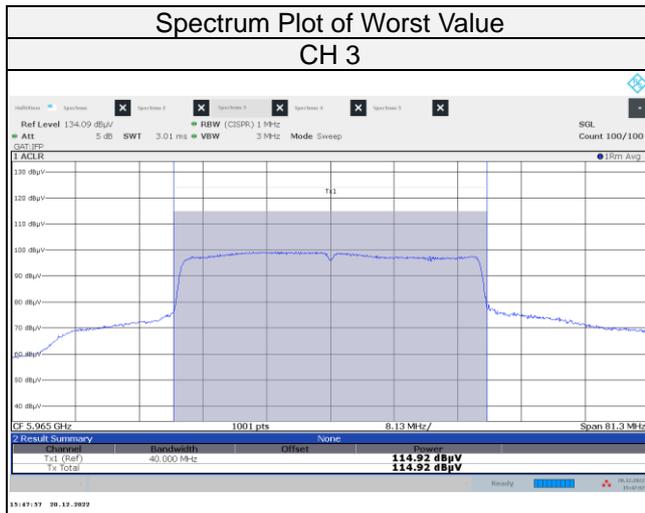
802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	112.57	-95.23	54.2	17.34	30	Pass
45	6175	112.61	-95.23	54.702	17.38	30	Pass
93	6415	112.55	-95.23	53.951	17.32	30	Pass
97	6435	110.61	-95.23	34.514	15.38	30	Pass
105	6475	110.12	-95.23	30.832	14.89	30	Pass
113	6515	111.97	-95.23	47.206	16.74	30	Pass
117	6535	110.62	-95.23	34.594	15.39	30	Pass
149	6695	109.85	-95.23	28.973	14.62	30	Pass
181	6855	109.62	-95.23	27.479	14.39	30	Pass
185	6875	112.01	-95.23	47.643	16.78	30	Pass
209	6995	111.45	-95.23	41.879	16.22	30	Pass
233	7115	94.51	-95.23	0.847	-0.72	30	Pass



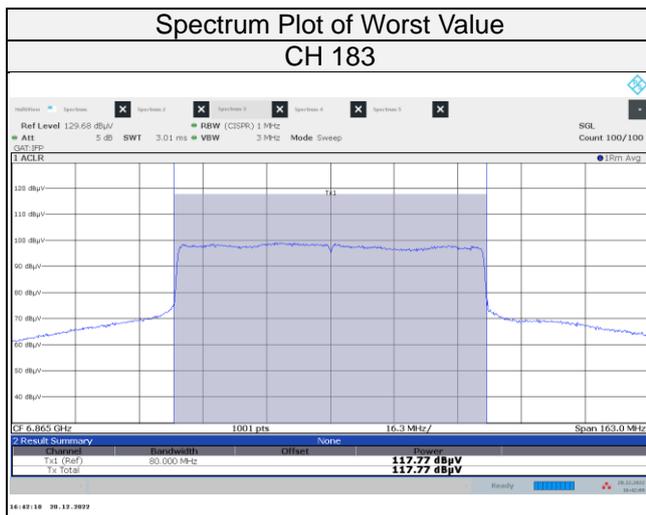
802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	114.92	-95.23	93.111	19.69	30	Pass
43	6165	114.19	-95.23	78.705	18.96	30	Pass
91	6405	114.25	-95.23	79.799	19.02	30	Pass
99	6445	112.36	-95.23	51.642	17.13	30	Pass
107	6485	112.75	-95.23	56.494	17.52	30	Pass
115	6525	113.15	-95.23	61.944	17.92	30	Pass
123	6565	112.35	-95.23	51.523	17.12	30	Pass
155	6725	114.27	-95.23	80.168	19.04	30	Pass
179	6845	113.62	-95.23	69.024	18.39	30	Pass
187	6885	114.02	-95.23	75.683	18.79	30	Pass
211	7005	114.48	-95.23	84.14	19.25	30	Pass
227	7085	114.27	-95.23	80.168	19.04	30	Pass



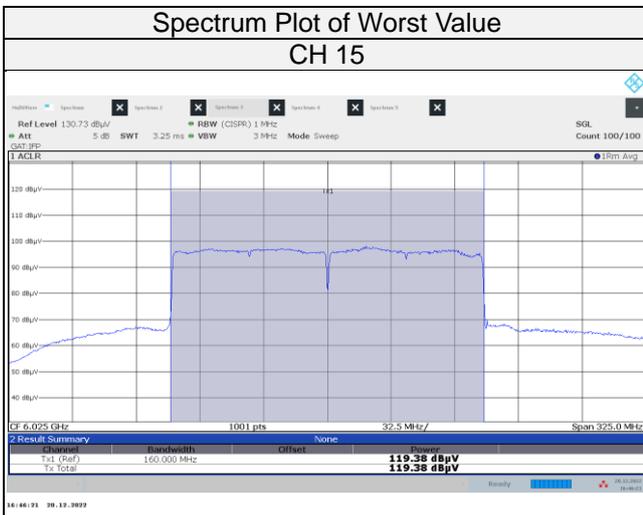
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	116.89	-95.23	146.555	21.66	30	Pass
39	6145	116.08	-95.23	121.619	20.85	30	Pass
87	6385	116.11	-95.23	122.462	20.88	30	Pass
103	6465	115.58	-95.23	108.393	20.35	30	Pass
119	6545	115.42	-95.23	104.472	20.19	30	Pass
151	6705	115.37	-95.23	103.276	20.14	30	Pass
183	6865	117.77	-95.23	179.473	22.54	30	Pass
199	6945	117.15	-95.23	155.597	21.92	30	Pass
215	7025	116.95	-95.23	148.594	21.72	30	Pass



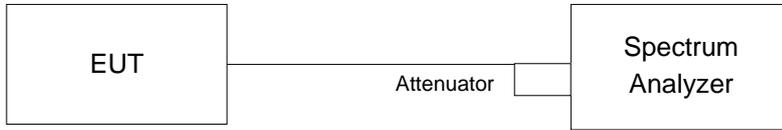
802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	119.38	-95.23	260.016	24.15	30	Pass
47	6185	117.95	-95.23	187.068	22.72	30	Pass
79	6345	118.95	-95.23	235.505	23.72	30	Pass
111	6505	118.02	-95.23	190.108	22.79	30	Pass
143	6665	117.65	-95.23	174.582	22.42	30	Pass
175	6825	119.32	-95.23	256.448	24.09	30	Pass
207	6985	119.33	-95.23	257.04	24.10	30	Pass



4.5 Emission Bandwidth Measurement

4.5.1 Test Setup



4.5.2 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes: The test was performed in Oven room.

4.5.3 Test Procedure

For 99% Occupied Bandwidth

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.

For 26dB Bandwidth

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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%.

4.5.4 Test Result

CDD Mode

99% Occupied Bandwidth

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Limit (MHz)
1	5955	17.40	17.40	17.31	17.40	320
45	6175	17.22	17.31	17.40	17.22	320
93	6415	17.40	17.40	17.40	17.31	320
97	6435	17.40	17.40	17.31	17.40	320
105	6475	17.48	17.40	17.40	17.40	320
113	6515	17.40	17.40	17.40	17.40	320
117	6535	17.48	17.40	17.40	17.48	320
149	6695	17.34	17.34	17.34	17.28	320
181	6855	17.34	17.40	17.34	17.28	320
185	6875	17.28	17.34	17.34	17.28	320
209	6995	17.40	17.40	17.34	17.34	320
233	7115	17.34	17.34	17.40	17.34	320

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Limit (MHz)
1	5955	19.26	19.14	19.20	19.26	320
45	6175	19.32	19.26	19.26	19.20	320
93	6415	19.32	19.20	19.26	19.32	320
97	6435	19.14	19.26	19.20	19.20	320
105	6475	19.20	19.20	19.26	19.20	320
113	6515	19.26	19.26	19.32	19.32	320
117	6535	19.32	19.20	19.26	19.20	320
149	6695	19.26	19.20	19.32	19.26	320
181	6855	19.32	19.26	19.26	19.26	320
185	6875	19.26	19.26	19.20	19.32	320
209	6995	19.32	19.26	19.26	19.20	320
233	7115	19.32	19.26	19.20	19.26	320

802.11ax (HE40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Limit (MHz)
3	5965	38.16	38.16	38.16	38.16	320
43	6165	38.28	38.16	38.16	38.16	320
91	6405	38.16	38.04	38.16	38.16	320
99	6445	38.16	38.28	38.16	38.28	320
107	6485	38.16	38.16	38.28	38.16	320
115	6525	38.16	38.16	38.16	38.16	320
123	6565	38.16	38.16	38.28	38.40	320
155	6725	38.16	38.16	38.28	38.28	320
179	6845	38.16	38.28	38.28	38.28	320
187	6885	38.16	38.28	38.28	38.28	320
211	7005	38.28	38.28	38.28	38.16	320
227	7085	38.16	38.16	38.16	38.28	320

802.11ax (HE80)

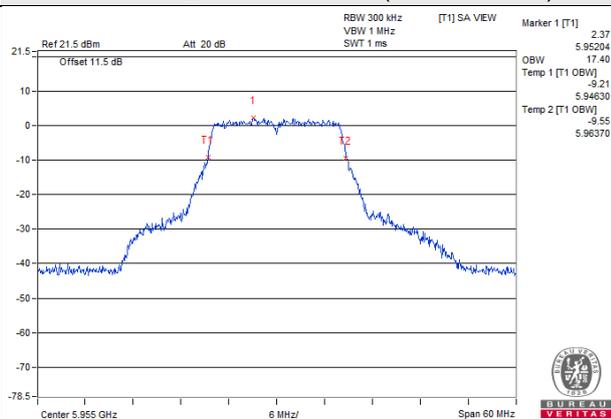
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Limit (MHz)
7	5985	77.52	77.28	77.76	77.52	320
39	6145	77.52	77.52	77.76	77.52	320
87	6385	77.28	77.52	77.76	77.28	320
103	6465	77.28	77.76	77.52	77.76	320
119	6545	77.52	77.52	77.52	77.52	320
151	6705	77.52	77.52	77.52	77.52	320
183	6865	77.76	77.76	77.28	77.76	320
199	6945	77.76	77.76	77.76	77.76	320
215	7025	77.76	77.28	77.76	77.76	320

802.11ax (HE160)

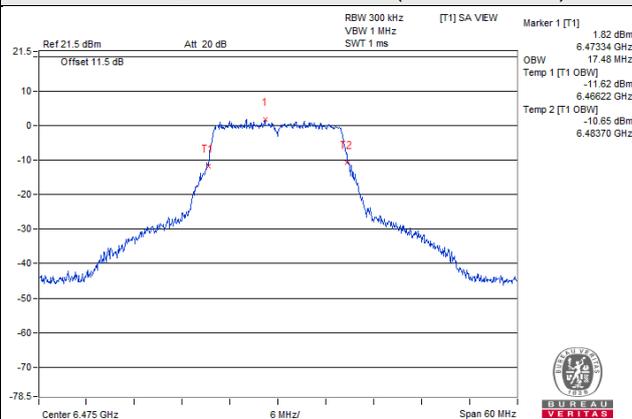
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	
15	6025	156.96	156.96	156.96	156.96	320
47	6185	156.96	156.48	157.44	157.44	320
79	6345	156.96	157.44	157.44	156.48	320
111	6505	157.44	157.44	157.44	157.44	320
143	6665	156.48	156.48	156.48	156.48	320
175	6825	157.44	157.44	157.44	157.44	320
207	6985	157.44	157.44	157.44	156.48	320

Spectrum Plot of Max. Value

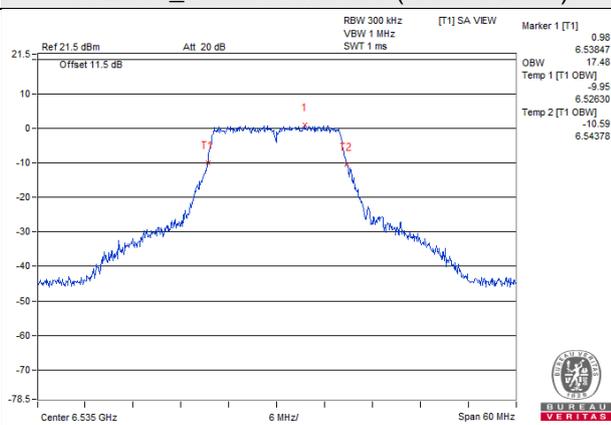
802.11a_Chain 0 / CH 1 (U-NII-5 Band)



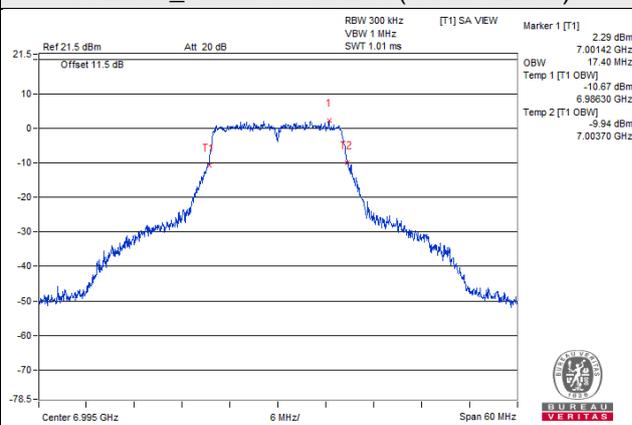
802.11a_Chain 0 / CH105 (U-NII-6 Band)



802.11a_Chain 0 / CH 117 (U-NII-7 Band)

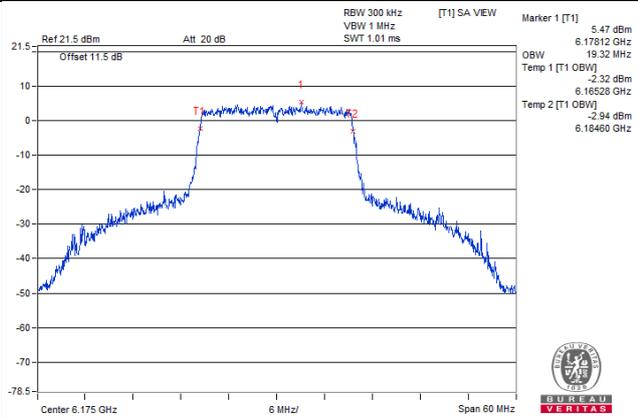


802.11a_Chain 0 / CH 209 (U-NII-8 Band)

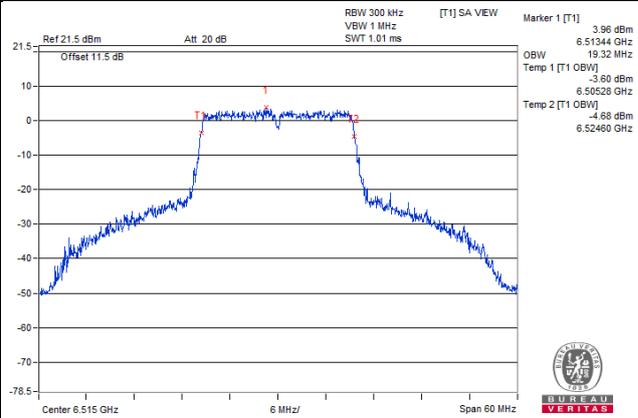


Spectrum Plot of Max. Value

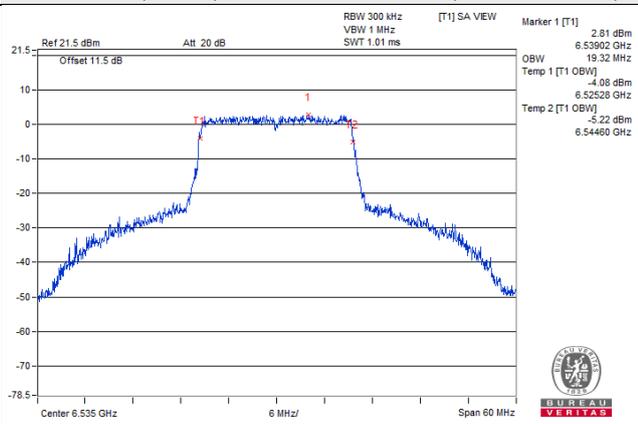
802.11ax (HE20)_Chain 0 / CH 45 (U-NII-5 Band)



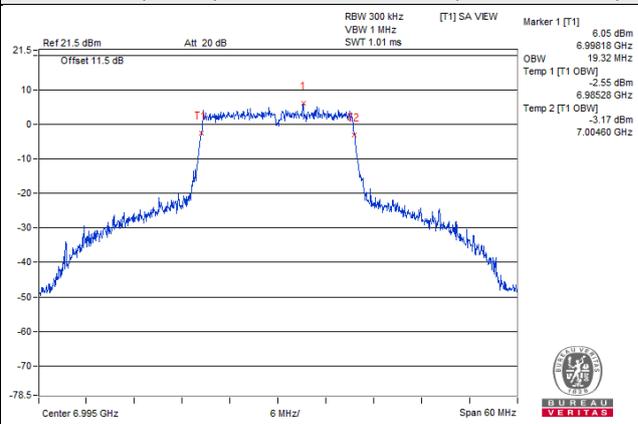
802.11ax (HE20)_Chain 2 / CH113 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH 117 (U-NII-7 Band)

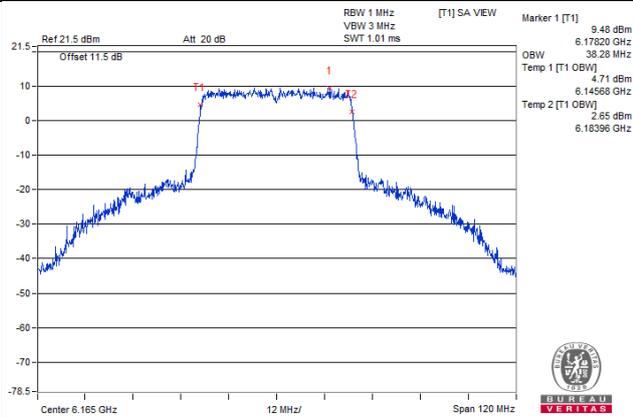


802.11ax (HE20)_Chain 0 / CH 209 (U-NII-8 Band)

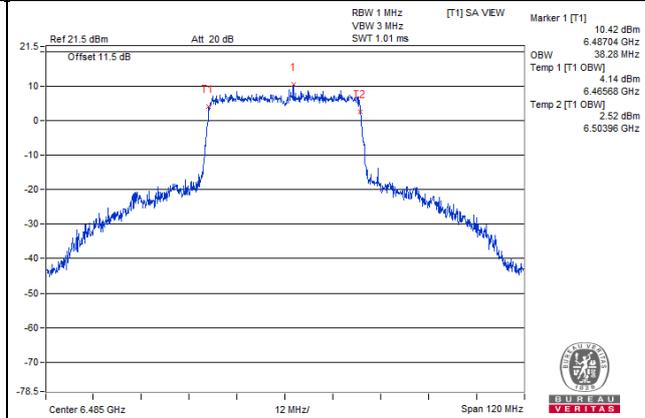


Spectrum Plot of Max. Value

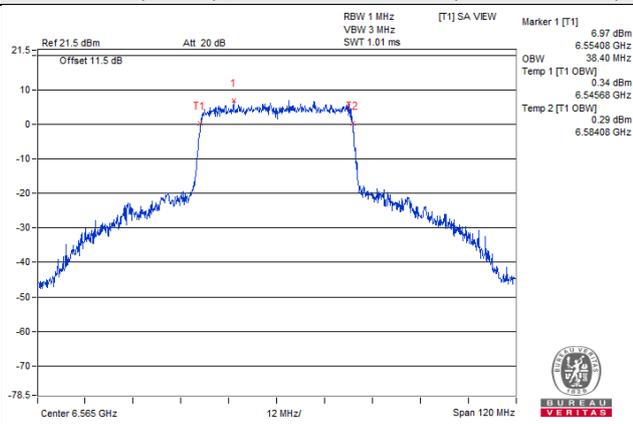
802.11ax (HE40)_Chain 0 / CH 43 (U-NII-5 Band)



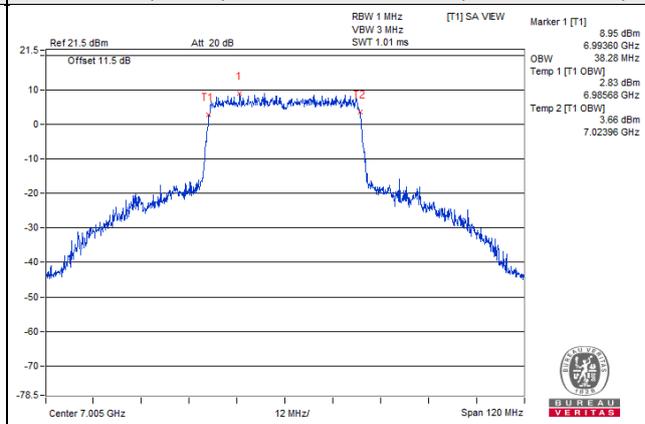
802.11ax (HE40)_Chain 2 / CH 107 (U-NII-6 Band)



802.11ax (HE40)_Chain 3 / CH 123 (U-NII-7 Band)

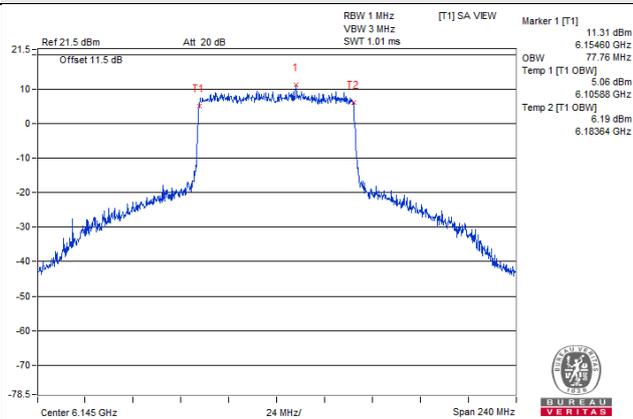


802.11ax (HE40)_Chain 1 / CH 211 (U-NII-8 Band)

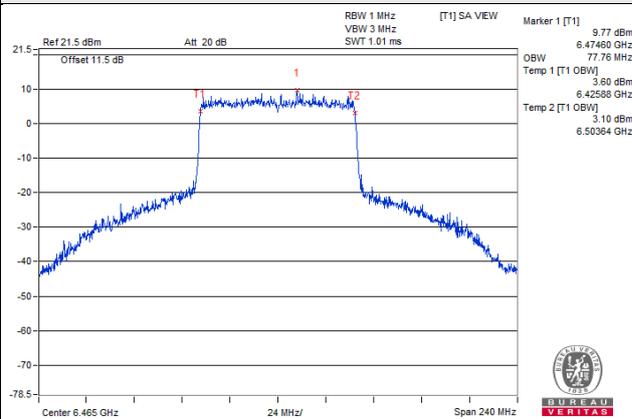


Spectrum Plot of Max. Value

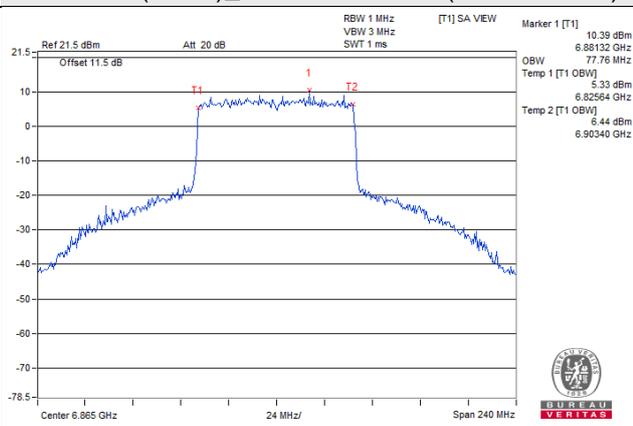
802.11ax (HE80)_Chain 2 / CH 39 (U-NII-5 Band)



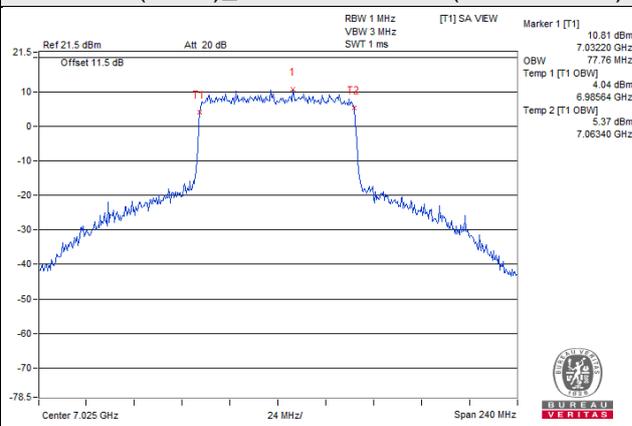
802.11ax (HE80)_Chain 3 / CH 103 (U-NII-6 Band)



802.11ax (HE80)_Chain 3 / CH183 (U-NII-7 Band)

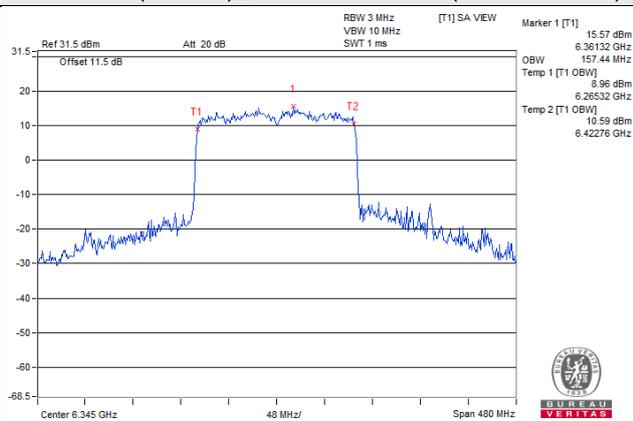


802.11ax (HE80)_Chain 2 / CH 215 (U-NII-8 Band)

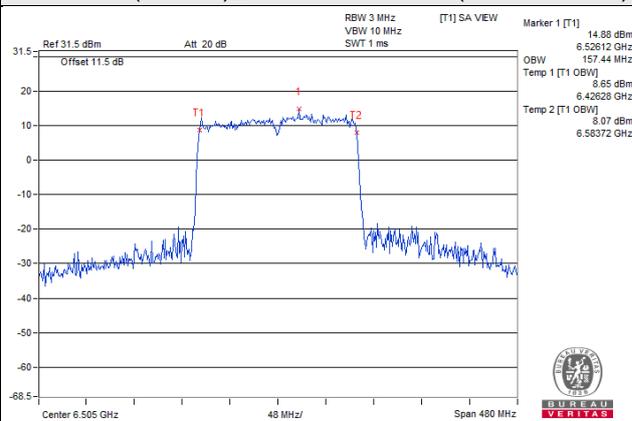


Spectrum Plot of Max. Value

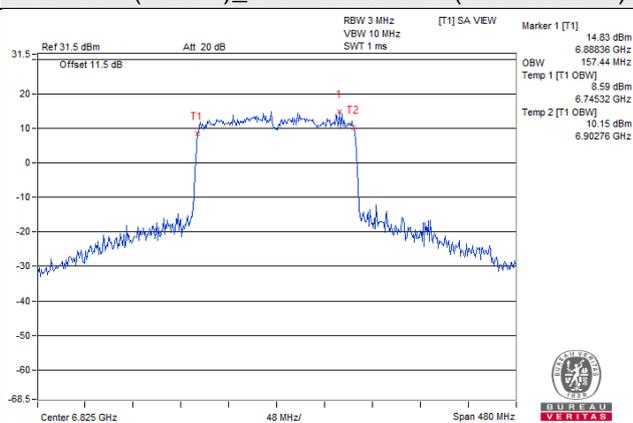
802.11ax (HE160)_Chain 1 / CH 79 (U-NII-5 Band)



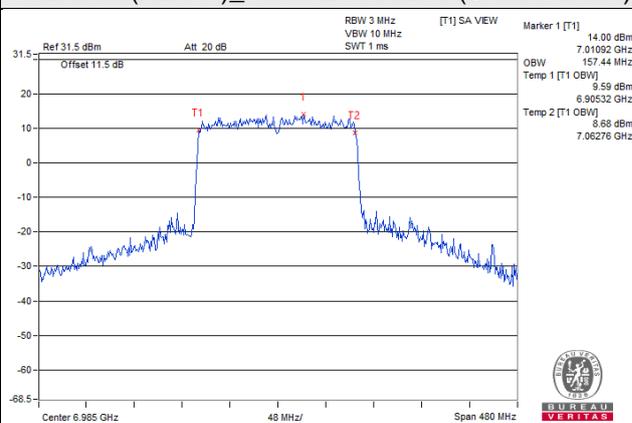
802.11ax (HE160)_Chain 2 / CH 111 (U-NII-6 Band)



802.11ax (HE160)_Chain 0 / CH175 (U-NII-7 Band)



802.11ax (HE160)_Chain 2 / CH 207 (U-NII-8 Band)



CDD Mode

26dB Bandwidth

802.11a

Chan.	Freq. (MHz)	26dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
1	5955	23.74	22.84	23.52	23.74
45	6175	23.59	23.13	22.73	23.01
93	6415	22.63	23.15	23.01	23.56
97	6435	23.14	23.69	23.07	22.85
105	6475	23.66	23.71	23.70	23.70
113	6515	22.87	23.12	23.73	23.71
117	6535	23.13	24.29	23.69	23.16
149	6695	23.58	24.25	23.65	23.68
181	6855	23.24	22.88	22.84	23.82
185	6875	22.76	23.52	23.54	23.62
209	6995	23.97	25.54	23.59	24.55
233	7115	23.96	23.69	23.56	23.54

802.11ax (HE20)

Chan.	Freq. (MHz)	26dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
1	5955	28.76	23.81	26.45	25.25
45	6175	26.15	28.83	26.02	25.69
93	6415	29.53	26.61	28.64	28.33
97	6435	26.44	28.92	26.43	29.36
105	6475	25.28	28.04	25.54	25.34
113	6515	26.75	29.16	27.85	22.33
117	6535	26.67	22.32	29.74	28.20
149	6695	28.72	27.73	26.07	25.73
181	6855	32.27	29.58	26.62	23.00
185	6875	29.42	29.05	29.63	24.83
209	6995	28.27	29.45	29.23	25.14
233	7115	22.33	22.95	24.12	22.86

802.11ax (HE40)

Chan.	Freq. (MHz)	26dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
3	5965	49.95	48.28	49.52	48.47
43	6165	44.38	50.09	42.98	46.84
91	6405	46.48	43.97	49.00	43.40
99	6445	44.34	45.91	49.10	49.30
107	6485	49.43	56.07	42.38	54.06
115	6525	47.33	50.89	43.93	52.28
123	6565	55.22	49.34	43.34	50.63
155	6725	46.13	46.68	43.89	46.16
179	6845	44.78	46.45	44.96	46.54
187	6885	45.27	49.05	46.33	47.72
211	7005	46.66	47.21	48.12	48.94
227	7085	48.92	50.76	47.77	54.47

802.11ax (HE80)

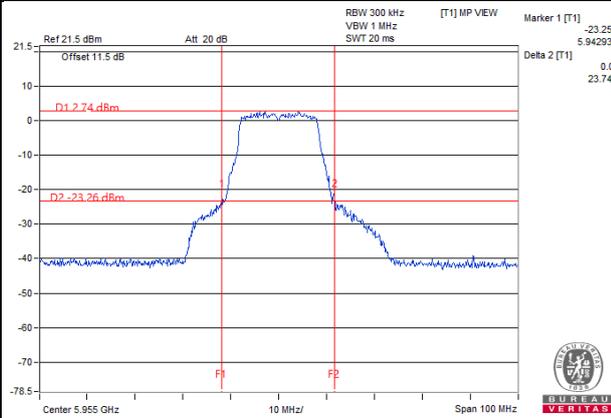
Chan.	Freq. (MHz)	26dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
7	5985	89.28	92.74	86.58	86.83
39	6145	84.53	87.28	84.81	82.93
87	6385	84.86	83.45	83.52	84.21
103	6465	85.53	84.10	83.05	83.19
119	6545	85.13	89.63	85.04	83.50
151	6705	85.72	84.59	88.91	84.06
183	6865	84.59	84.35	83.84	88.59
199	6945	89.91	85.48	84.32	84.92
215	7025	85.16	84.45	84.99	89.70

802.11ax (HE160)

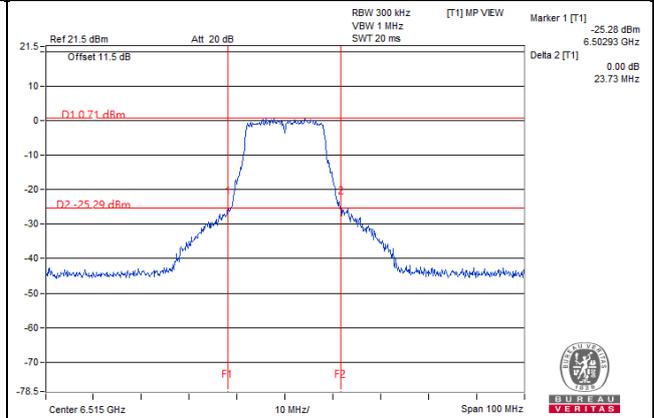
Chan.	Freq. (MHz)	26dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
15	6025	167.67	168.64	168.17	167.94
47	6185	169.13	174.11	177.46	168.42
79	6345	171.23	182.28	177.56	169.33
111	6505	168.88	169.08	169.07	169.67
143	6665	168.89	169.22	169.01	168.85
175	6825	168.60	170.39	174.28	168.65
207	6985	172.88	169.34	168.54	169.13

Spectrum Plot of Max. Value

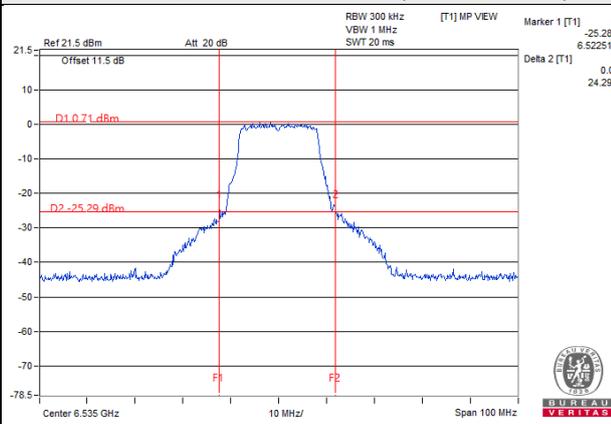
802.11a_Chain 0 / CH 1 (U-NII-5 Band)



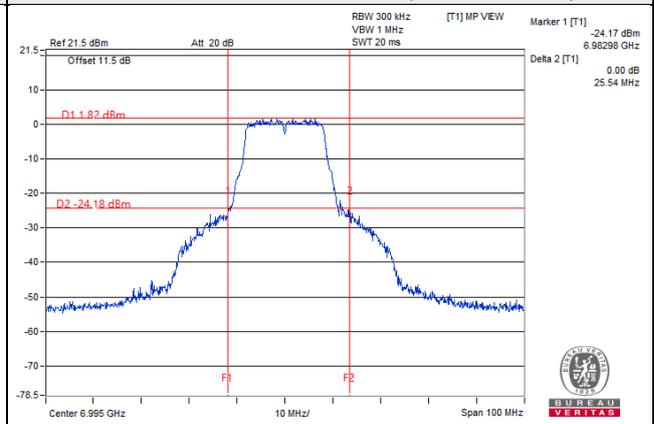
802.11a_Chain 2 / CH 113 (U-NII-6 Band)



802.11a_Chain 1 / CH 117 (U-NII-7 Band)

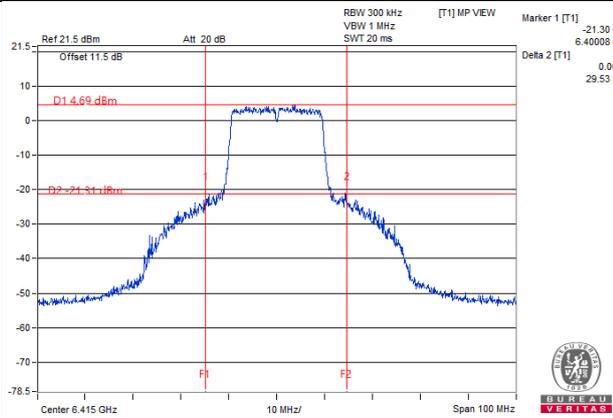


802.11a_Chain 1 / CH 209 (U-NII-8 Band)

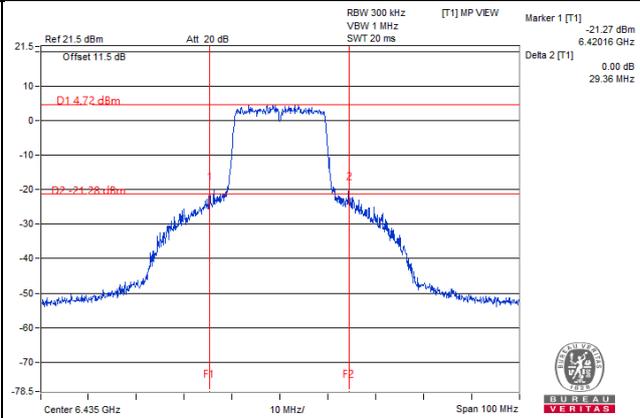


Spectrum Plot of Max. Value

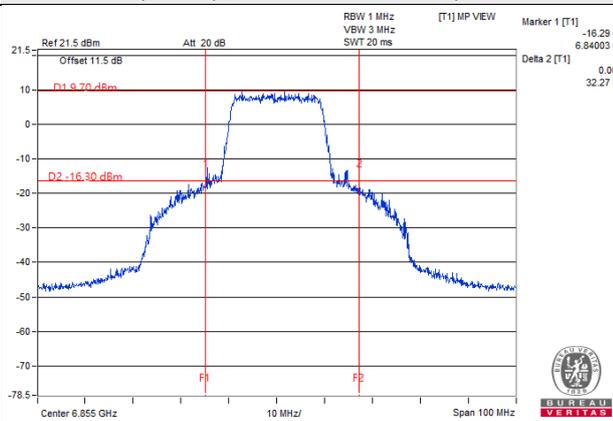
802.11ax (HE20)_Chain 0 / CH 93 (U-NII-5 Band)



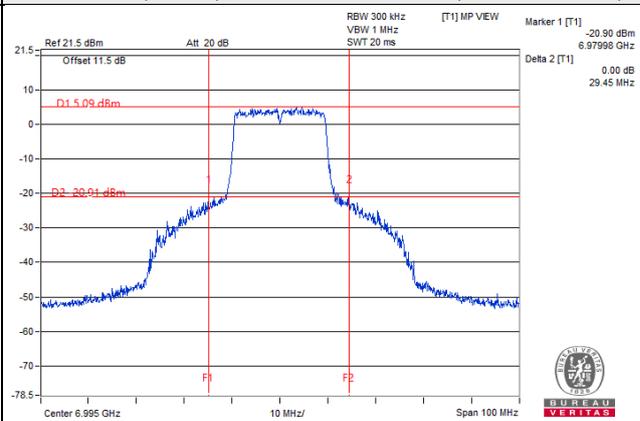
802.11ax (HE20)_Chain 3 / CH 97 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH 181 (U-NII-7 Band)

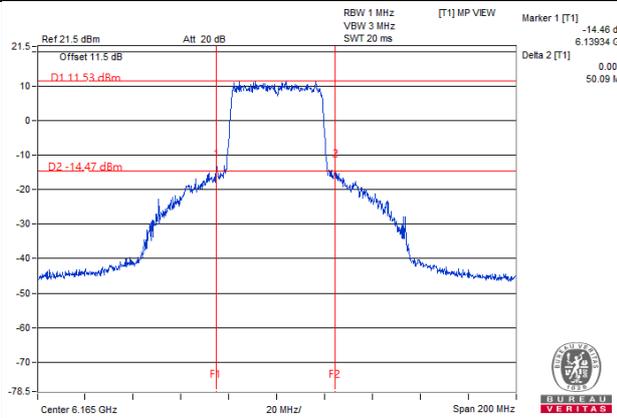


802.11ax (HE20)_Chain 1 / CH 209 (U-NII-8 Band)

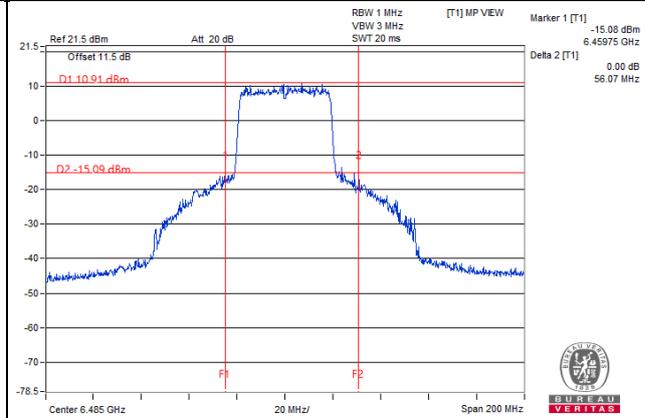


Spectrum Plot of Max. Value

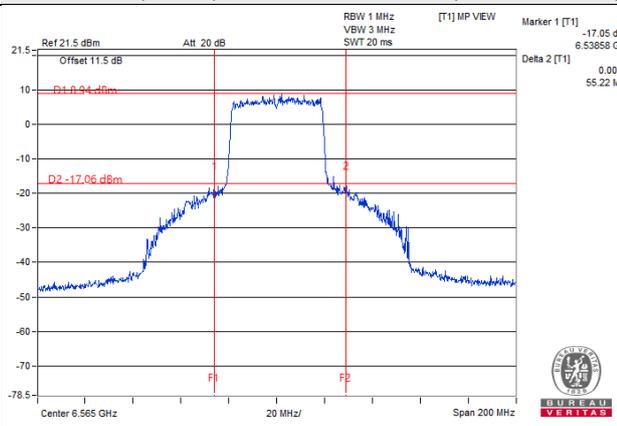
802.11ax (HE40)_Chain 1 / CH 43 (U-NII-5 Band)



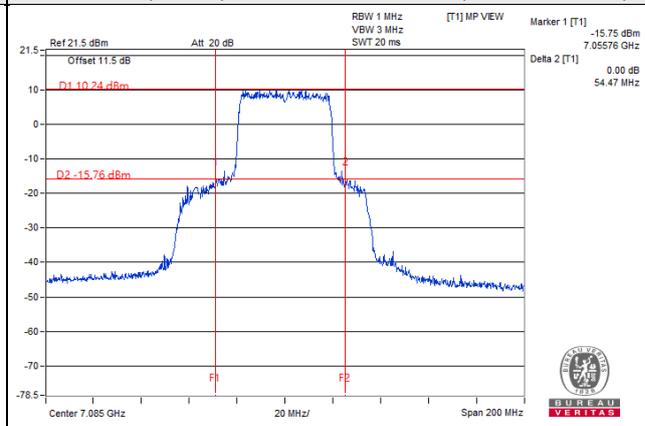
802.11ax (HE40)_Chain 1 / CH 107 (U-NII-6 Band)



802.11ax (HE40)_Chain 0 / CH 123 (U-NII-7 Band)

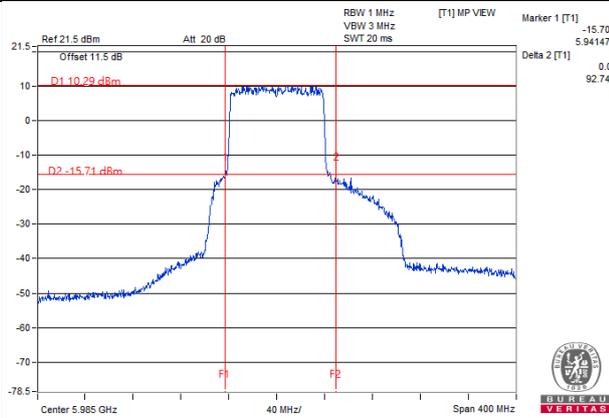


802.11ax (HE40)_Chain 3 / CH 227 (U-NII-8 Band)

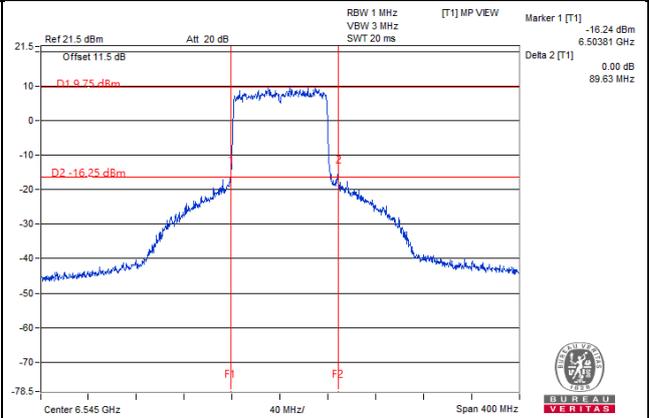


Spectrum Plot of Max. Value

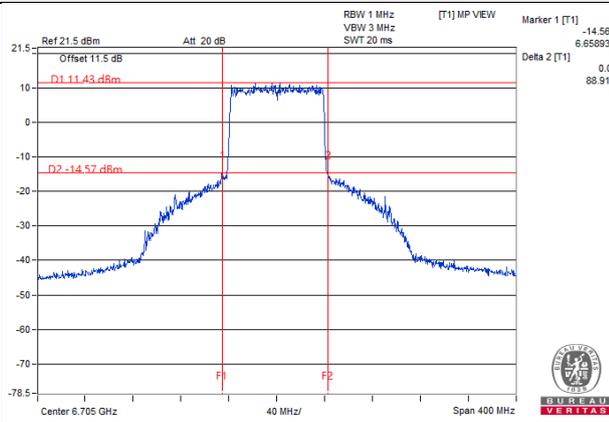
802.11ax (HE80)_Chain 1 / CH 7 (U-NII-5 Band)



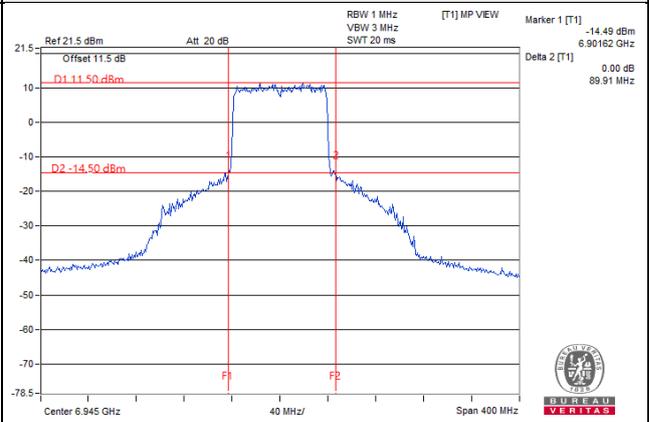
802.11ax (HE80)_Chain 1 / CH 119 (U-NII-6 Band)



802.11ax (HE80)_Chain 2 / CH 151 (U-NII-7 Band)

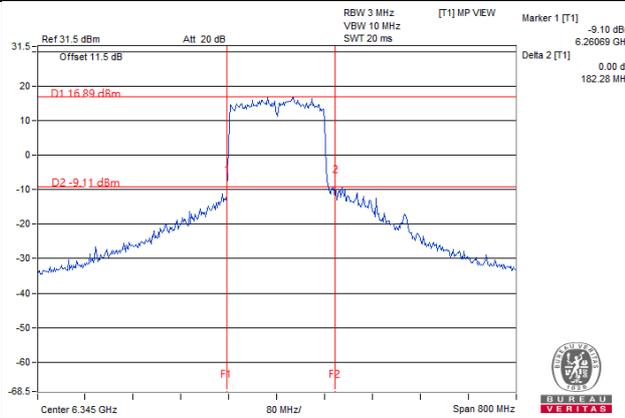


802.11ax (HE80)_Chain 0 / CH 199 (U-NII-8 Band)

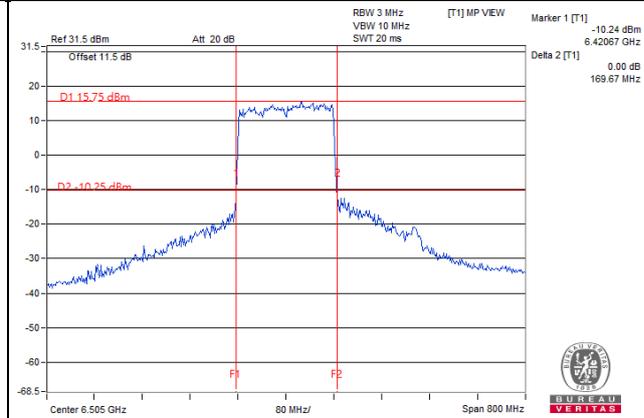


Spectrum Plot of Max. Value

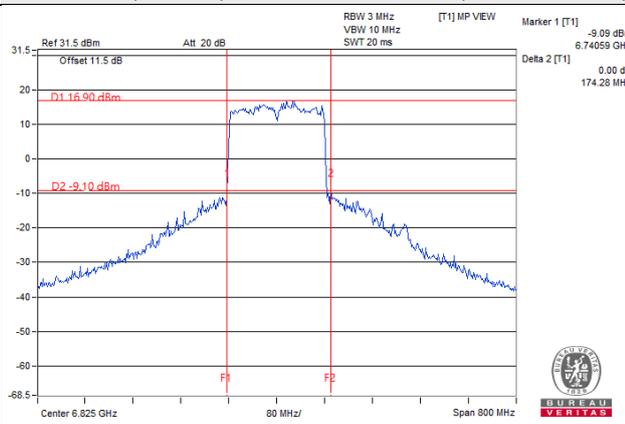
802.11ax (HE160)_Chain 1 / CH 79 (U-NII-5 Band)



802.11ax (HE160)_Chain 3 / CH 111 (U-NII-6 Band)



802.11ax (HE160)_Chain 2 / CH 175 (U-NII-7 Band)



802.11ax (HE160)_Chain 0 / CH 207 (U-NII-8 Band)

