TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.:	RFBCMN-WTW-P23100614-2
FCC ID:	Q3N-RS38
Product:	Mobile Computer
Brand:	CIPHERLAB
Model No.:	RS38
Series Model:	RS38WO (Refer to item 3.1 for more details)
Received Date:	2023/11/12
Test Date:	2024/1/15 ~ 2024/7/11
Issued Date:	2024/8/5
Applicant:	Cipherlab Co., Ltd.
Address:	12F, 333 Dunhua S. Rd., Sec. 2, Taipei, Taiwan 10669
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location(1):	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location(2):	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	198487 / TW2021 for Test Location(1) 788550 / TW0003 for Test Location(2)

Approved by: Jeremy Lin , **Date:** 2024/8/5

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCMN-WTW-P23100614-2	Original release.	2024/8/5

1 Certificate

Product:	Mobile Computer
Brand:	CIPHERLAB
Test Model:	RS38
Series Model:	RS38WO (Refer to item 3.1 for more details)
Sample Status:	Engineering sample
Applicant:	Cipherlab Co., Ltd.
Test Date:	2024/1/15 ~ 2024/7/11
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(8)	Maximum RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(8)	Maximum Power Spectral Density	Pass	Meet the requirement of limit.
15.407(a)(11)	Emission Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -21.92 dB at 0.39400 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -14.1 dB at 933.07 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.4 dB at 7125.00 MHz
15.407(b)(7)	In-Band Emission Mask	Pass	Meet the requirement of limit.
15.407(d)(6)	Contention-based Protocol	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is Spring 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:

Parameter	Specification	Uncertainty (±)
Maximum RF Output Power	-	1.1 dB
Maximum Power Spectral Density	-	1.3 dB
Occupied Bandwidth	-	960 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Mobile Computer
Brand	CIPHERLAB
Test Model	RS38
Series Model	RS38WO
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply Rating	3.87 Vdc (from battery) 5 Vdc (from adapter or host equipment)
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDMA
Transfer Rate	802.11ax: up to 2401.9 Mbps
Operating Frequency	5.995 GHz ~ 6.415 GHz 6.435 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.095 GHz
Number of Channel	802.11ax (HE20):57 802.11ax (HE40):28 802.11ax (HE80):13 802.11ax (HE160):6
Resource Unit (RU)	26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 996x2-tone
Output Power	5.995 GHz ~ 6.415 GHz : EIRP: 27.200 mW (14.35 dBm) 6.435 GHz ~ 6.525 GHz : EIRP: 23.606 mW (13.73 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 23.776 mW (13.76 dBm) 6.875 GHz ~ 7.095 GHz : EIRP: 17.185 mW (12.35 dBm)
Equipment Class	6XD: 15E 6 GHz Low-power Indoor client

Note:

1. All models are listed as below. After pretesting, RS38 was the worst case and chosen for final test.

Brand	Model	Difference
CIPHERLAB	RS38	WWAN+WLAN
	RS38WO	WLAN only

* The hardware of the two models has not changed, only the software is used to turn off WWAN.

2. The EUT uses following accessories.

Item	Brand	Model	Specification
Adapter	Channel WELL Technology	2AEA010BC3D	AC Input: 100-240 Vac, 50/60 Hz, 0.35 A DC Output: 5.0 Vdc, 2.0 A, 10.0 W
Reader 1	Zebra	SE4770	-
Reader 2	Zebra	SE4100	-
Reader 3	Zebra	SE5500	-
1st Battery	CIPHERLAB	BA-0174A5	3.87 Vdc, 4500 mAh, 17.42 Wh
2nd Battery	Chongqing VDL Electronics Co., Ltd	341322PM4	3.85 Vdc, 90 mAh
USB To Type C Cable	SUNCA CO., LTD	1Q11512211-XJ	0.9 m

* After pretesting, Reader 1 and 1st Battery were the worst case and chosen for final test.

3. Simultaneously transmission condition.

Condition	Technology
1	WWAN + WLAN 2.4G (Ant. 4) + WLAN 5G (Ant. 2) + BT
2	WWAN + WLAN 2.4G (MIMO)
3	WWAN + WLAN 5G (MIMO) + BT
4	WWAN + WLAN 6G (MIMO)
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.	

4. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.4)
5. 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 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna	Antenna Type	Connector Type	Frequency (MHz)	Peak Gain (dBi)
Ant. 2	LDS	Spring	2400-2483.5	1.0
			5150-5250	0.5
			5250-5350	0.5
			5470-5725	0.5
			5725-5850	0.5
			5925-6425	-1.0
			6425-6525	-1.8
			6525-6875	-1.2
			6875-7125	-2.7
Ant. 4	LDS	Spring	2400-2483.5	1.0
			5150-5250	0.5
			5250-5350	0.5
			5470-5725	0.5
			5725-5850	0.5
			5955-6425	-0.8
			6425-6525	-1.5
			6525-6875	-1.3
			6875-7125	-2.6

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

2. The EUT incorporates a MIMO function:

6 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/2x996)	2TX	2RX

Note:

1. The EUT don't support Beamforming mode.
2. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.

3.3 Channel List

U-NII-5:

22 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
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				

11 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
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		

5 channels are 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				

2 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
47	6185 MHz	79	6345 MHz

U-NII-6:

5 channels are provided for 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 is 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 802.11ax (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 802.11ax (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 channels are 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 these are straddle channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. 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).
Worst Case:	1. EUT Worst Condition: Y-axis

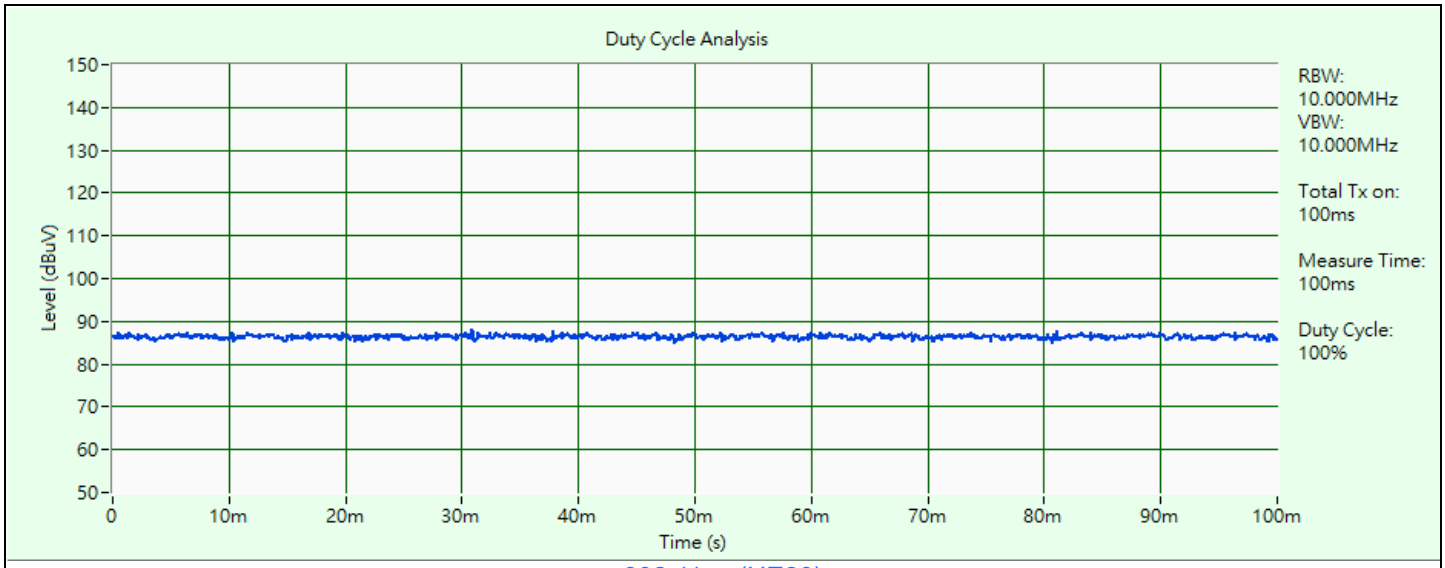
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Maximum RF Output Power	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54
Maximum Power Spectral Density	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54
Emission Bandwidth	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54

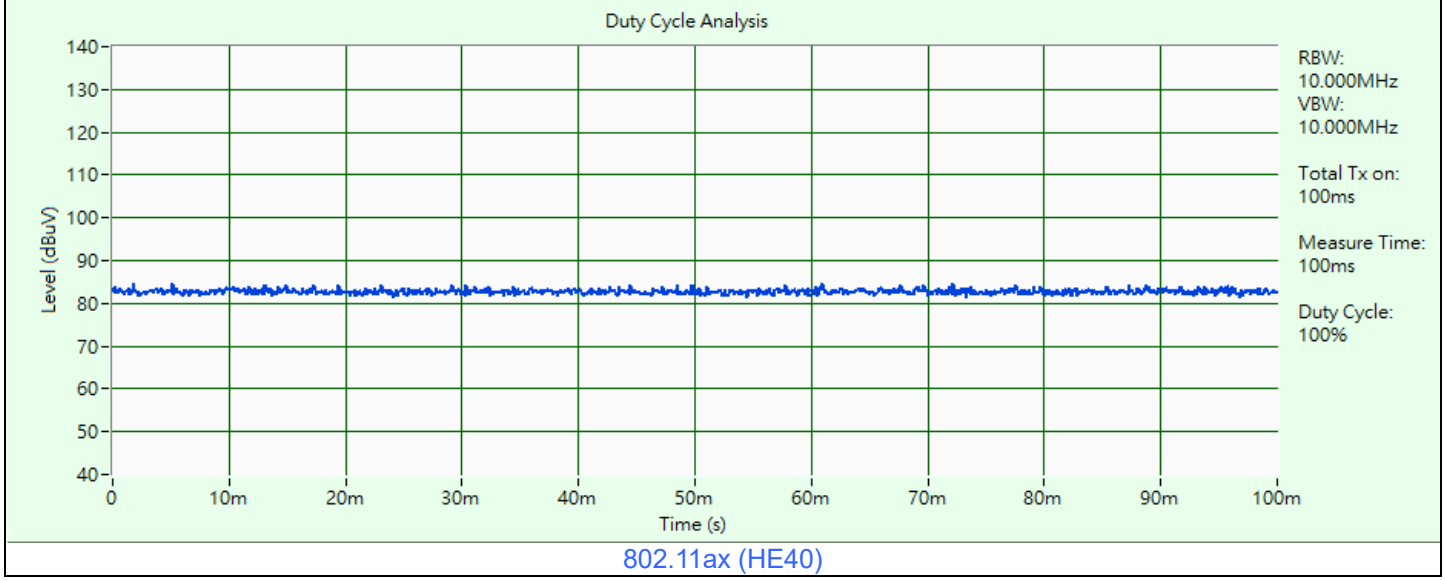
Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
In-Band Emission Mask	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54
Occupied Bandwidth	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54
Frequency Stability	-	9	unmodulated	-	NA
Contention-based Protocol	802.11ax (HE20)	45, 105, 149, 209	BPSK	MCS0	NA
	802.11ax (HE160)	47, 111, 143, 207	BPSK	MCS0	NA
AC Power Conducted Emissions	802.11ax (HE160)	79	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	802.11ax (HE160)	79	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	802.11ax (HE20)	9, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 229	BPSK	MCS0	NA
	802.11ax (HE40)	11, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227	BPSK	MCS0	NA
	802.11ax (HE80)	23, 39, 87, 103, 119, 151, 183, 199, 215	BPSK	MCS0	NA
	802.11ax (HE160)	47, 79, 111, 143, 175, 207	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	0, 8
	802.11ax (HE20) 52-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	37, 40
	802.11ax (HE20) 106-tone RU	9, 93, 97, 113, 117, 185, 209, 229	BPSK	MCS0	53, 54

3.5 Duty Cycle of Test Signal

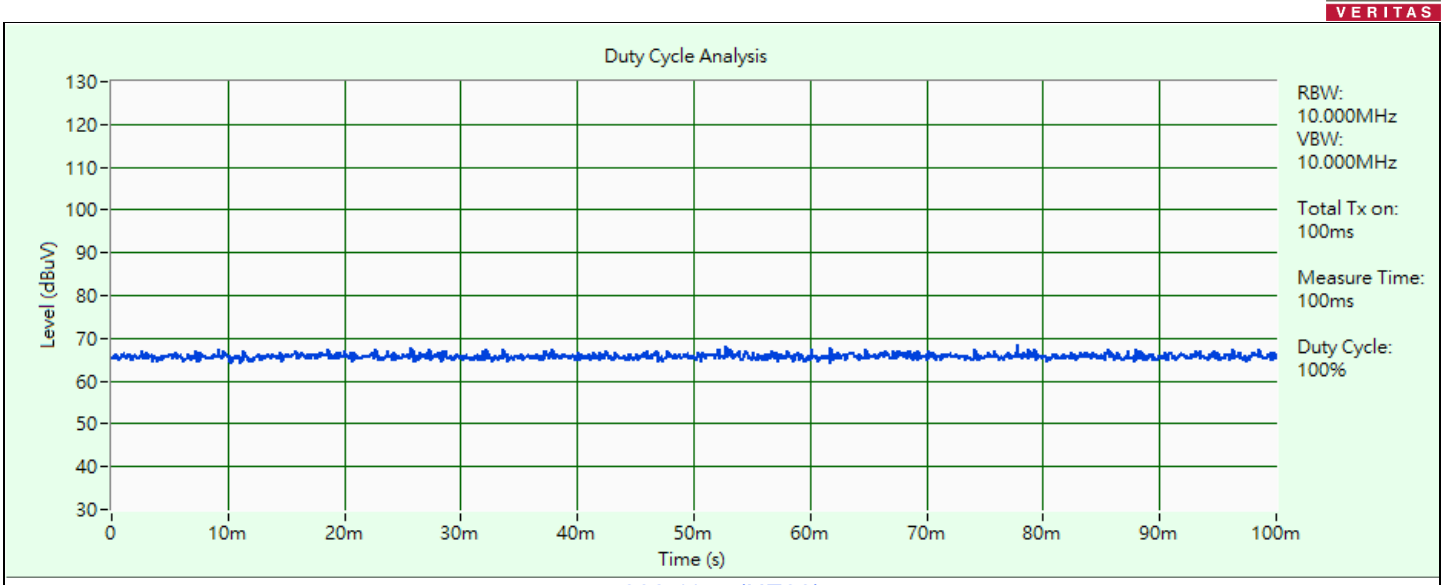
802.11ax (HE20): Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE40): Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE80): Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE160): Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE20) 26-tone RU: Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE20) 52-tone RU: Duty cycle = 100 ms / 100 ms x 100% = 100.0%
802.11ax (HE20) 106-tone RU: Duty cycle = 100 ms / 100 ms x 100% = 100.0%



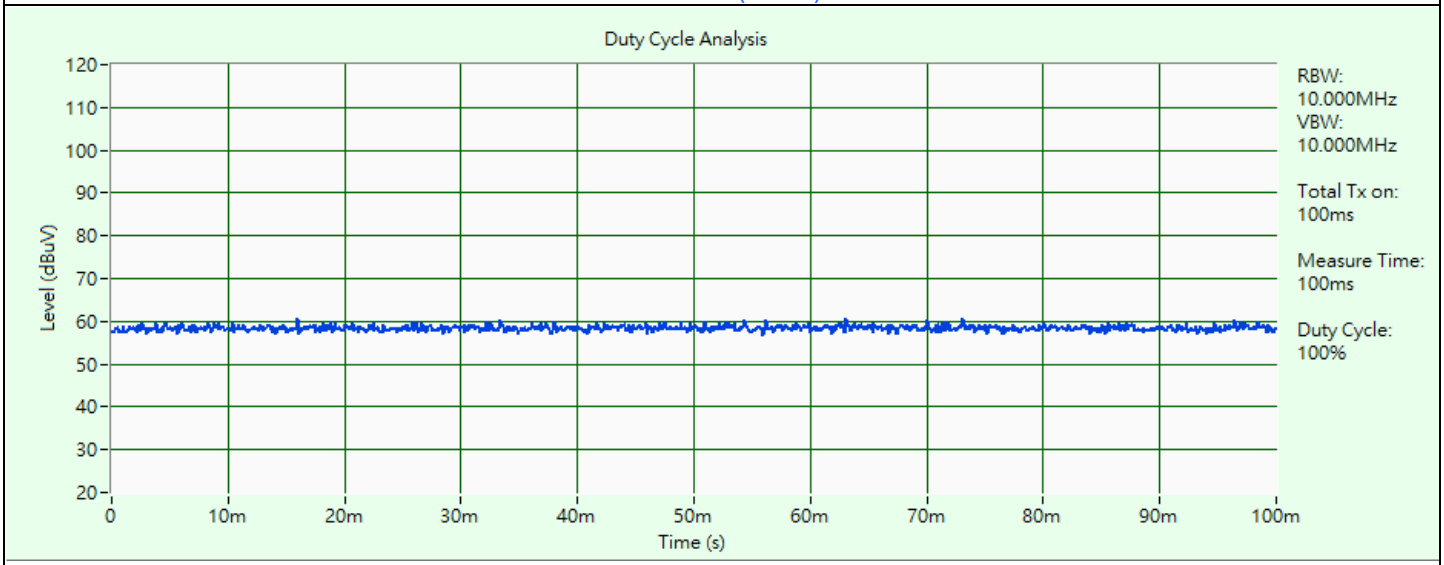
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



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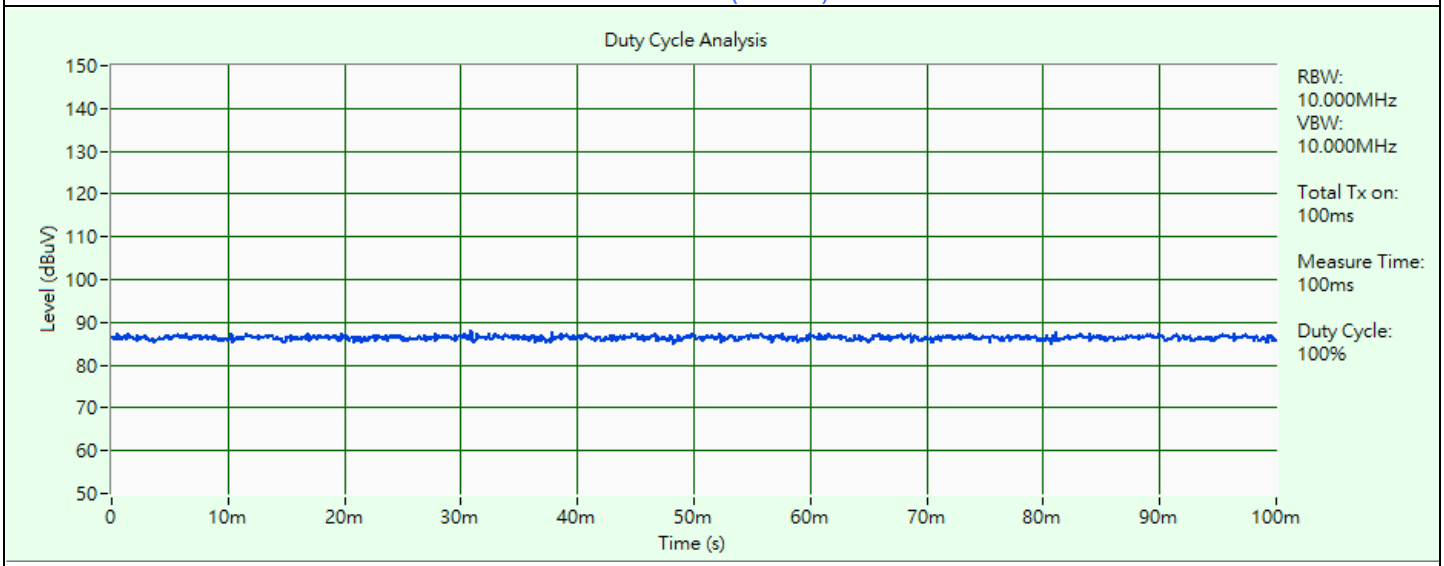
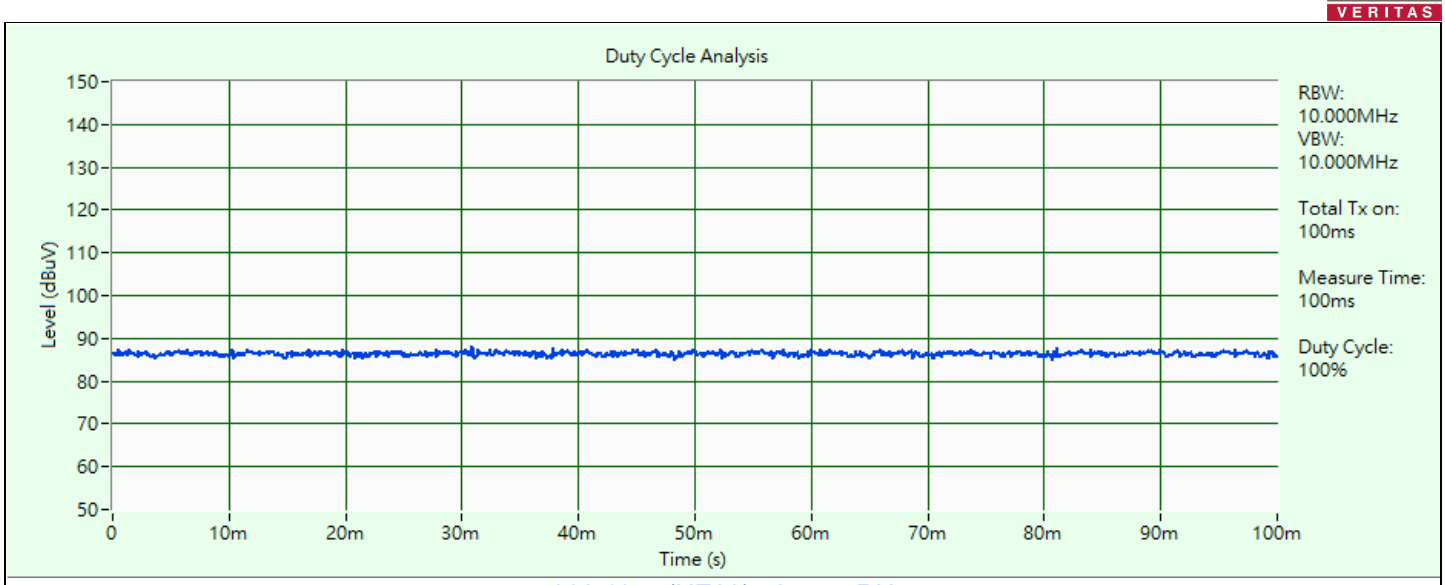
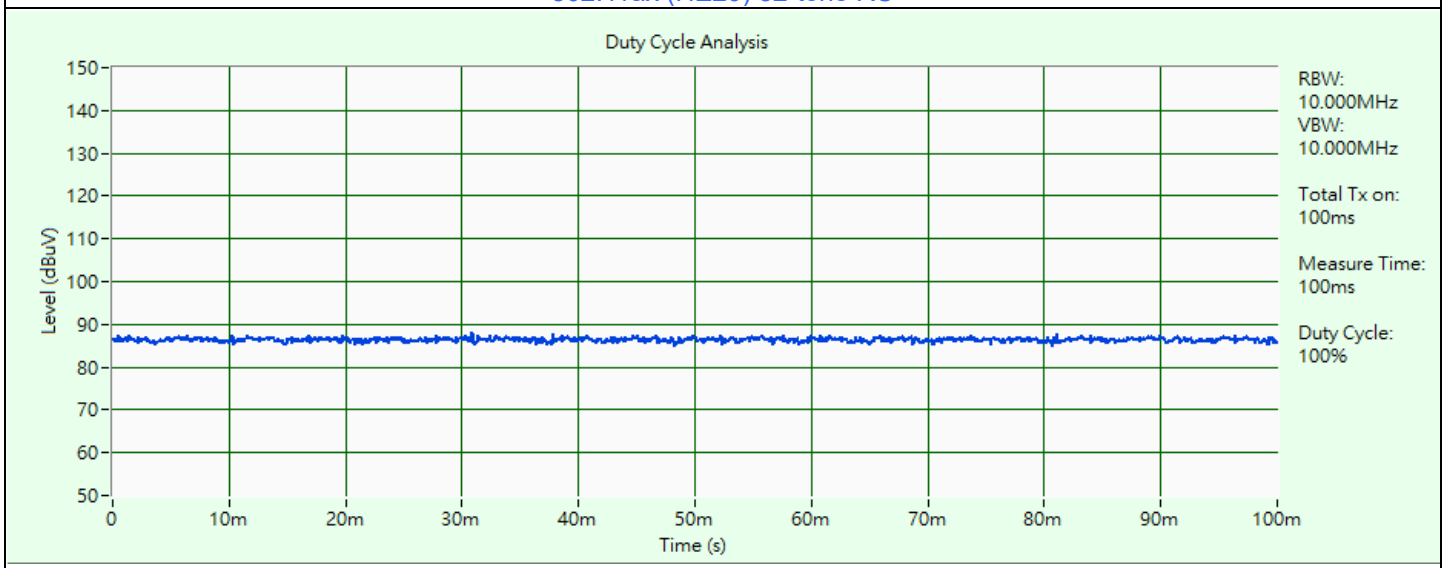


802.11ax (HE20) 26-tone RU



802.11ax (HE20) 52-tone RU

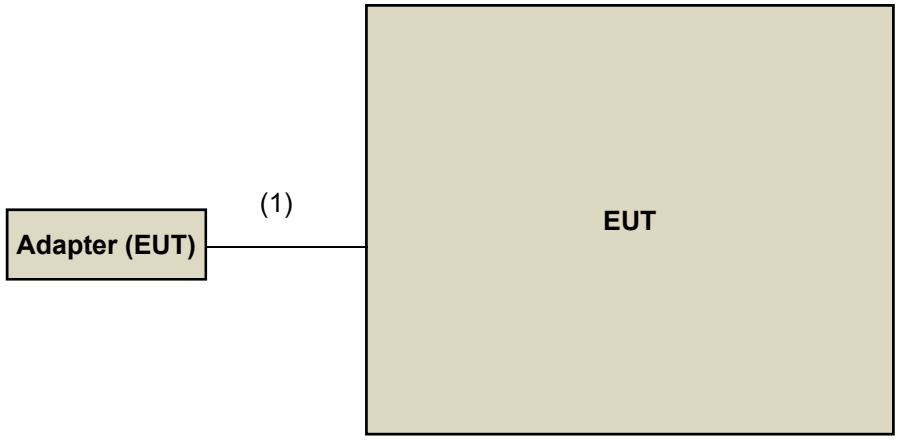


802.11ax (HE20) 106-tone RU

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT V4.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB To Type C Cable	1	0.9	Y	0	Accessory of EUT

4 Test Instruments

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

4.1 Maximum RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	0738404	2024/5/13	2025/5/12
RF Power Meter Anritsu	ML2495A	0842014	2024/5/13	2025/5/12
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2024/6/7	2025/6/6

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/10 ~ 2024/7/11

4.2 Maximum Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/10 ~ 2024/7/11

4.3 Emission Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 In-Band Emission Mask

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920409	2024/6/24	2025/6/23

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/10 ~ 2024/7/11

4.7 Contention-based Protocol

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
MXG Vector Signal Generator Agilent	N5182B	MY53050430	2023/12/4	2024/12/3
MXG Vector Signal Generator Keysight	N5182BU	MY59360189	2023/12/4	2024/12/3
Power Divider Woken	0120A02058001M	DCMD33WIK3	2023/5/5	2024/5/4
		DCMD33WIK7	2023/5/5	2024/5/4

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2024/3/15

4.8 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2023/2/1	2024/1/31
	E1-011312	10	2023/1/30	2024/1/29
	E1-011591	17	2023/2/1	2024/1/31
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESR3	102783	2023/12/13	2024/12/12
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2024/1/16

4.9 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2023/10/16	2024/10/15
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2023/9/27	2024/9/26
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/1/15

4.10 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2023/11/12	2024/11/11
	BBHA 9170	148	2023/11/12	2024/11/11
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 012645	980115	2023/9/27	2024/9/26
	EMC 184045	980116	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
	EMC104-SM-SM-8000+3000	171005	2023/9/27	2024/9/26
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/1/16 ~ 2024/3/18

5 Limits of Test Items

5.1 Maximum RF Output Power

Operation Band	Equipment Class	Limit
		Maximum Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6XD: 15E 6 GHz Low-power Indoor client	EIRP 24 dBm

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.2 Maximum Power Spectral Density

Operation Band	Equipment Class	Limit
		Maximum Power Density
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6XD: 15E 6 GHz Low-power Indoor client	EIRP -1 dBm/MHz

5.3 Emission Bandwidth

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

5.4 In-Band Emission Mask

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

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

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

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 Contention-based Protocol

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

5.8 AC Power Conducted Emissions

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

Notes:

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

5.9 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.10 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

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

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

6 Test Arrangements

6.1 Maximum RF Output Power

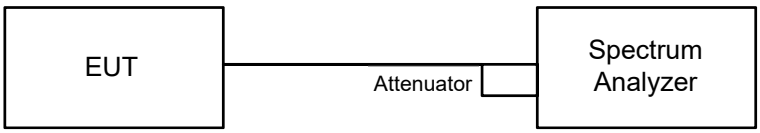
6.1.1 Test Setup

6.1.2 Test Procedure

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

6.2 Maximum Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

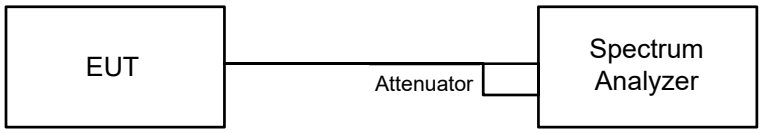
For specified measurement bandwidth 1 MHz:

Method SA-1

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

6.3 Emission Bandwidth

6.3.1 Test Setup

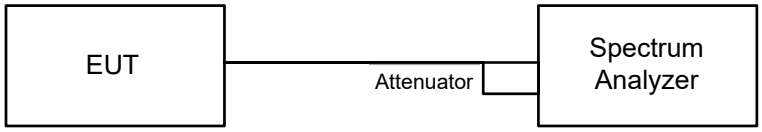


6.3.2 Test Procedure

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

6.4 In-Band Emission Mask

6.4.1 Test Setup



6.4.2 Test Procedure

a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.

b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)

c. Measure the power spectral density (for emissions mask reference) using the following procedure:
a) Set the span to encompass the entire 26 dB EBW of the signal.
b) Set RBW = same RBW used for 26 dB EBW measurement.
c) Set VBW ≥ [3 X RBW].
d) Number of points in sweep ≥ [2 X span / RBW].
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging).
g) Trace average at least 100 traces in power averaging (rms) mode.
h) Use the peak search function on the instrument to find the peak of the spectrum.

d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
b) Suppressed by 28 dB at one channel bandwidth from the channel center.
c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

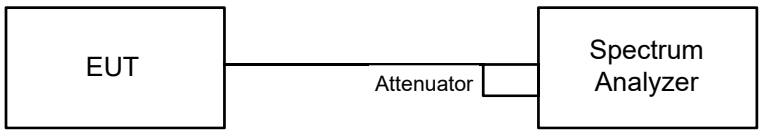
e. Adjust the span to encompass the entire mask as necessary and clear trace.

f. Trace average at least 100 traces in power averaging (rms) mode.

g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

6.5 Occupied Bandwidth

6.5.1 Test Setup

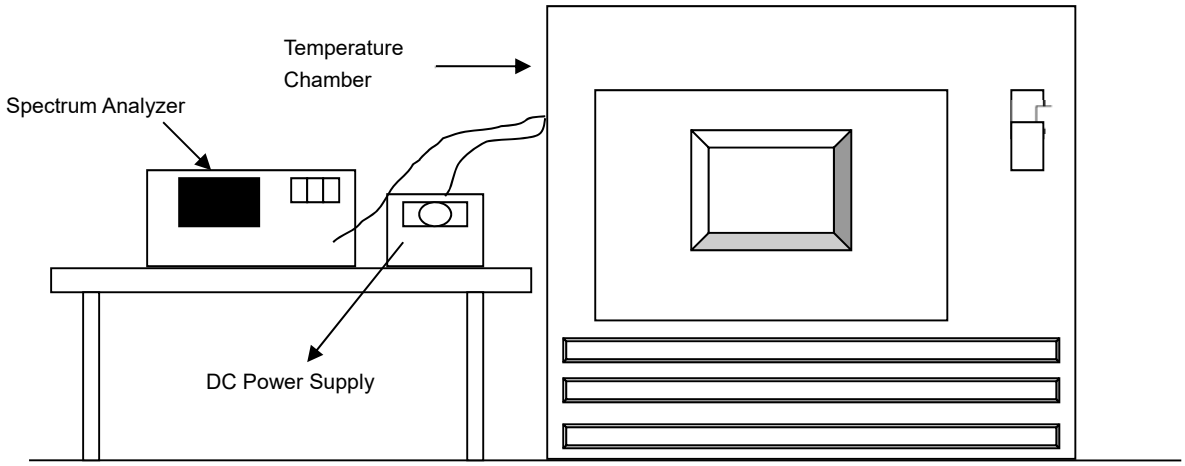


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

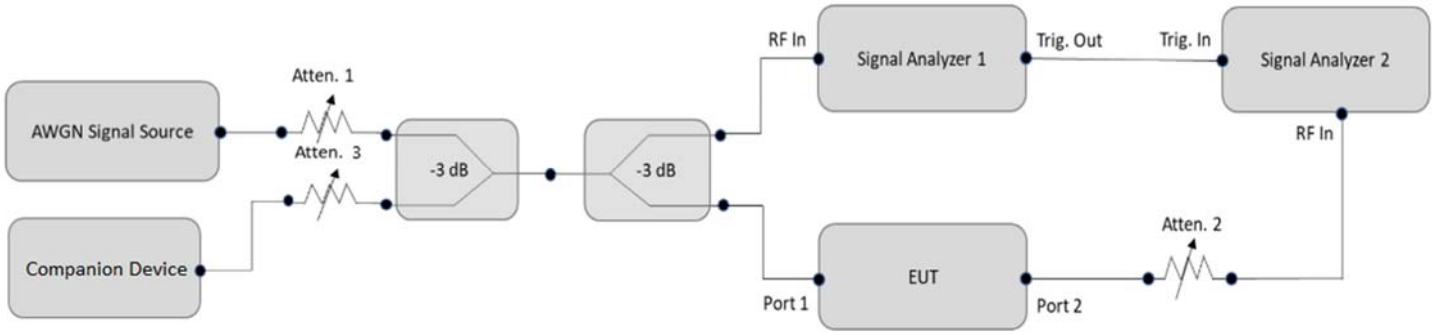


6.6.2 Test Procedure

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

6.7 Contention-based Protocol

6.7.1 Test Setup



6.7.2 Test Procedure

a. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.

b. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).

c. Determine number of times detection threshold test as following table,

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

d. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

e. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.

f. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

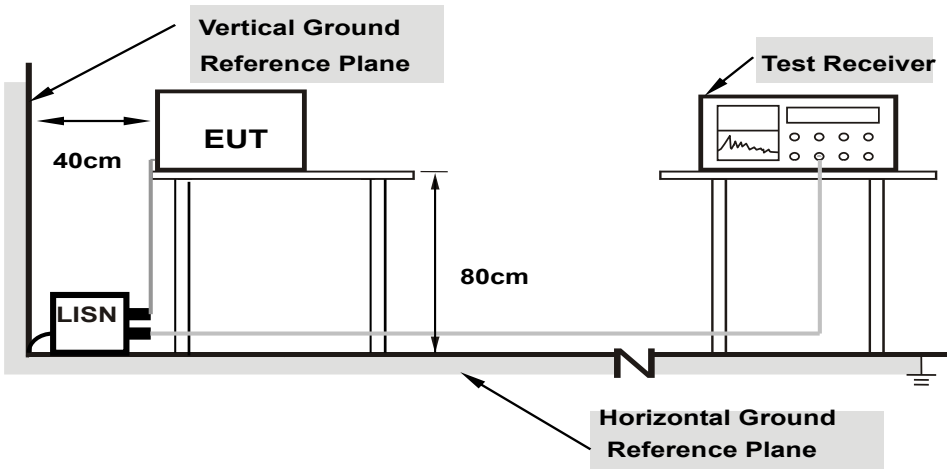
g. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.

h. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.

i. Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

6.8 AC Power Conducted Emissions

6.8.1 Test Setup



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

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

6.8.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

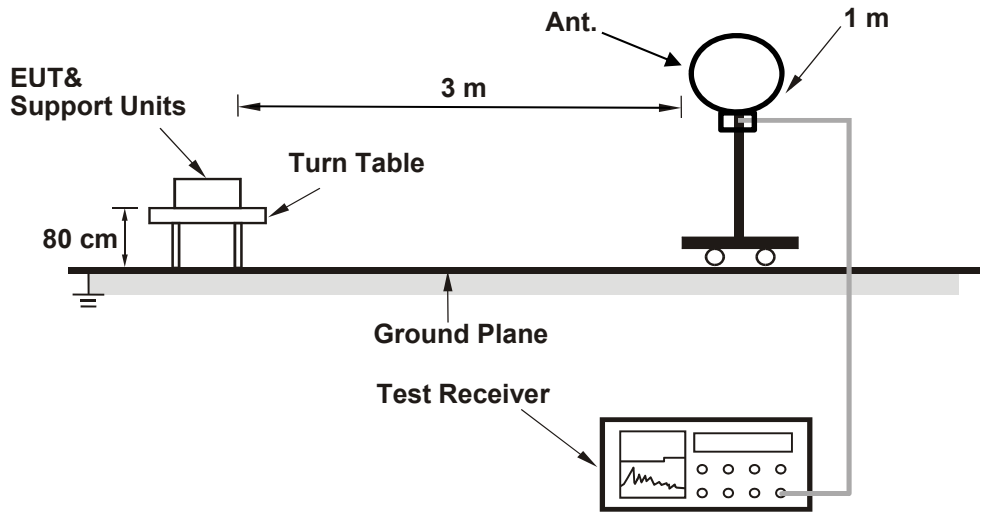
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

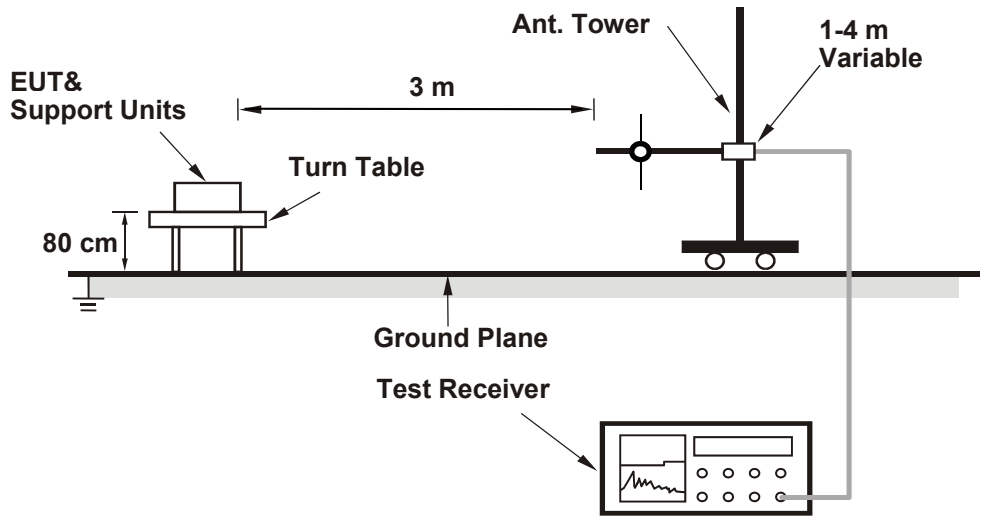
6.9 Unwanted Emissions below 1 GHz

6.9.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.9.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

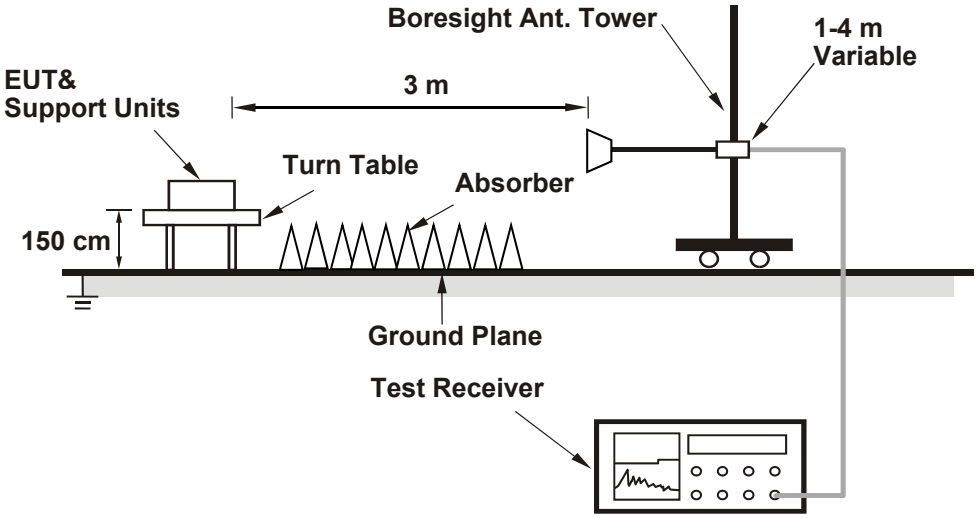
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.10 Unwanted Emissions above 1 GHz

6.10.1 Test Setup



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

6.10.2 Test Procedure

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. 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 peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 Maximum RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
9	5995	8.31	8.32	13.568	11.33	-0.80	11.285	10.53	24	Pass
45	6175	8.36	8.38	13.741	11.38	-0.80	11.429	10.58	24	Pass
93	6415	8.31	8.35	13.616	11.34	-0.80	11.325	10.54	24	Pass
97	6435	8.51	8.51	14.192	11.52	-1.50	10.047	10.02	24	Pass
105	6475	8.47	8.49	14.094	11.49	-1.50	9.978	9.99	24	Pass
113	6515	8.43	8.49	14.029	11.47	-1.50	9.932	9.97	24	Pass
117	6535	8.75	8.75	14.998	11.76	-1.20	11.377	10.56	24	Pass
149	6695	8.72	8.78	14.998	11.76	-1.20	11.377	10.56	24	Pass
181	6855	8.73	8.78	15.015	11.77	-1.20	11.39	10.57	24	Pass
185	6875	8.76	8.73	14.981	11.76	-1.20	11.364	10.56	24	Pass
209	6995	8.29	9.26	15.179	11.81	-2.60	8.341	9.21	24	Pass
229	7095	8.28	9.32	15.28	11.84	-2.60	8.397	9.24	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
11	6005	10.90	10.91	24.634	13.92	-0.80	20.49	13.12	24	Pass
43	6165	10.92	10.93	24.747	13.94	-0.80	20.584	13.14	24	Pass
91	6405	10.92	11.05	25.095	14.00	-0.80	20.873	13.2	24	Pass
99	6445	11.99	11.99	31.625	15.00	-1.50	22.389	13.5	24	Pass
107	6485	11.91	11.96	31.227	14.95	-1.50	22.107	13.45	24	Pass
115	6525	11.92	11.92	31.119	14.93	-1.20	23.606	13.73	24	Pass
123	6565	11.32	12.11	29.807	14.74	-1.20	22.611	13.54	24	Pass
155	6725	11.35	12.19	30.204	14.80	-1.20	22.912	13.6	24	Pass
179	6845	11.35	12.19	30.204	14.80	-1.20	22.912	13.6	24	Pass
187	6885	11.36	12.12	29.97	14.77	-2.60	16.47	12.17	24	Pass
211	7005	11.23	12.29	30.217	14.80	-2.60	16.605	12.2	24	Pass
227	7085	11.22	12.25	30.031	14.78	-2.60	16.503	12.18	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
23	6065	11.95	12.03	31.626	15.00	-0.80	26.305	14.2	24	Pass
39	6145	11.91	11.99	31.336	14.96	-0.80	26.064	14.16	24	Pass
87	6385	11.91	11.93	31.119	14.93	-0.80	25.884	14.13	24	Pass
103	6465	11.89	11.91	30.976	14.91	-1.50	21.929	13.41	24	Pass
119	6545	11.91	11.93	31.119	14.93	-1.20	23.606	13.73	24	Pass
151	6705	11.31	12.12	29.814	14.74	-1.20	22.616	13.54	24	Pass
183	6865	11.42	12.26	30.694	14.87	-1.20	23.284	13.67	24	Pass
199	6945	11.21	12.22	29.885	14.75	-2.60	16.423	12.15	24	Pass
215	7025	11.23	12.28	30.178	14.80	-2.60	16.584	12.2	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
47	6185	12.05	12.07	32.139	15.07	-0.80	26.732	14.27	24	Pass
79	6345	12.08	12.19	32.701	15.15	-0.80	27.200	14.35	24	Pass
111	6505	12.06	12.18	32.589	15.13	-1.50	23.071	13.63	24	Pass
143	6665	11.43	12.28	30.804	14.89	-1.20	23.367	13.69	24	Pass
175	6825	11.56	12.31	31.343	14.96	-1.20	23.776	13.76	24	Pass
207	6985	11.39	12.43	31.271	14.95	-2.60	17.185	12.35	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
9	5995	-1.18	-1.67	1.4428	1.59	-0.80	1.2	0.79	24	Pass
93	6415	-1.14	-1.70	1.4452	1.60	-0.80	1.202	0.8	24	Pass
97	6435	-0.59	-1.12	1.6457	2.16	-1.50	1.165	0.66	24	Pass
113	6515	-0.61	-1.14	1.6381	2.14	-1.50	1.16	0.64	24	Pass
117	6535	-1.36	-1.81	1.3903	1.43	-1.20	1.055	0.23	24	Pass
185	6875	-1.33	-1.85	1.3893	1.43	-1.20	1.054	0.23	24	Pass
209	6995	0.53	0.06	2.144	3.31	-2.60	1.178	0.71	24	Pass
229	7095	0.51	0.02	2.129	3.28	-2.60	1.17	0.68	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
9	5995	1.78	1.29	2.852	4.55	-0.80	2.372	3.75	24	Pass
93	6415	1.81	1.27	2.857	4.56	-0.80	2.376	3.76	24	Pass
97	6435	2.29	1.80	3.208	5.06	-1.50	2.271	3.56	24	Pass
113	6515	2.20	1.67	3.129	4.95	-1.50	2.215	3.45	24	Pass
117	6535	1.64	1.18	2.771	4.43	-1.20	2.102	3.23	24	Pass
185	6875	1.57	1.06	2.712	4.33	-1.20	2.057	3.13	24	Pass
209	6995	3.48	3.01	4.228	6.26	-2.60	2.323	3.66	24	Pass
229	7095	3.51	3.04	4.258	6.29	-2.60	2.34	3.69	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
9	5995	4.46	3.92	5.259	7.21	-0.80	4.374	6.41	24	Pass
93	6415	4.51	3.99	5.331	7.27	-0.80	4.434	6.47	24	Pass
97	6435	5.23	4.62	6.232	7.95	-1.50	4.412	6.45	24	Pass
113	6515	5.11	4.58	6.114	7.86	-1.50	4.328	6.36	24	Pass
117	6535	4.69	4.13	5.533	7.43	-1.20	4.197	6.23	24	Pass
185	6875	4.71	4.22	5.6	7.48	-1.20	4.248	6.28	24	Pass
209	6995	6.05	5.57	7.633	8.83	-2.60	4.195	6.23	24	Pass
229	7095	6.03	5.54	7.59	8.80	-2.60	4.171	6.2	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, the maximum gain is -0.8 dBi.
3. For U-NII-6, the maximum gain is -1.5 dBi.
4. For U-NII-7, the maximum gain is -1.2 dBi.
5. For U-NII-8, the maximum gain is -2.6 dBi.

7.2 Maximum Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
9	5995	-6.00	-6.51	-3.24	2.11	-1.13	-1	Pass
45	6175	-5.99	-6.58	-3.26	2.11	-1.15	-1	Pass
93	6415	-5.97	-6.50	-3.22	2.11	-1.11	-1	Pass
97	6435	-5.33	-5.76	-2.53	1.36	-1.17	-1	Pass
105	6475	-5.30	-5.78	-2.52	1.36	-1.16	-1	Pass
113	6515	-5.28	-5.82	-2.53	1.36	-1.17	-1	Pass
117	6535	-5.68	-6.32	-2.98	1.76	-1.22	-1	Pass
149	6695	-5.72	-6.19	-2.94	1.76	-1.18	-1	Pass
181	6855	-5.82	-6.24	-3.01	1.76	-1.25	-1	Pass
185	6875	-5.73	-6.23	-2.96	1.76	-1.2	-1	Pass
209	6995	-4.29	-4.71	-1.48	0.36	-1.12	-1	Pass
229	7095	-4.27	-4.73	-1.48	0.36	-1.12	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
11	6005	-6.16	-6.52	-3.33	2.11	-1.22	-1	Pass
43	6165	-5.98	-6.54	-3.24	2.11	-1.13	-1	Pass
91	6405	-5.99	-6.49	-3.22	2.11	-1.11	-1	Pass
99	6445	-5.30	-5.77	-2.52	1.36	-1.16	-1	Pass
107	6485	-5.32	-5.80	-2.54	1.36	-1.18	-1	Pass
115	6525	-5.66	-6.14	-2.88	1.76	-1.12	-1	Pass
123	6565	-5.69	-6.26	-2.96	1.76	-1.2	-1	Pass
155	6725	-5.74	-6.28	-2.99	1.76	-1.23	-1	Pass
179	6845	-5.71	-6.25	-2.96	1.76	-1.2	-1	Pass
187	6885	-5.73	-6.25	-2.97	0.36	-2.61	-1	Pass
211	7005	-4.26	-4.71	-1.47	0.36	-1.11	-1	Pass
227	7085	-4.27	-4.86	-1.54	0.36	-1.18	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
23	6065	-7.60	-7.53	-4.55	2.11	-2.44	-1	Pass
39	6145	-7.66	-7.56	-4.60	2.11	-2.49	-1	Pass
87	6385	-7.63	-7.64	-4.62	2.11	-2.51	-1	Pass
103	6465	-7.72	-7.64	-4.67	1.36	-3.31	-1	Pass
119	6545	-7.63	-7.62	-4.61	1.76	-2.85	-1	Pass
151	6705	-8.10	-7.38	-4.71	1.76	-2.95	-1	Pass
183	6865	-8.16	-7.27	-4.68	1.76	-2.92	-1	Pass
199	6945	-8.39	-7.34	-4.82	0.36	-4.46	-1	Pass
215	7025	-8.40	-7.25	-4.78	0.36	-4.42	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
47	6185	-10.53	-10.50	-7.50	2.11	-5.39	-1	Pass
79	6345	-10.55	-10.42	-7.47	2.11	-5.36	-1	Pass
111	6505	-10.45	-10.38	-7.40	1.36	-6.04	-1	Pass
143	6665	-10.94	-10.24	-7.57	1.76	-5.81	-1	Pass
175	6825	-10.80	-10.21	-7.48	1.76	-5.72	-1	Pass
207	6985	-11.13	-10.20	-7.63	0.36	-7.27	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
9	5995	-6.06	-6.62	-3.32	2.11	-1.21	-1	Pass
93	6415	-6.09	-6.60	-3.33	2.11	-1.22	-1	Pass
97	6435	-5.37	-5.78	-2.56	1.36	-1.2	-1	Pass
113	6515	-5.35	-5.79	-2.55	1.36	-1.19	-1	Pass
117	6535	-5.89	-6.34	-3.10	1.76	-1.34	-1	Pass
185	6875	-5.83	-6.32	-3.06	1.76	-1.3	-1	Pass
209	6995	-4.32	-4.89	-1.59	0.36	-1.23	-1	Pass
229	7095	-4.37	-4.73	-1.54	0.36	-1.18	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
9	5995	-6.09	-6.58	-3.32	2.11	-1.21	-1	Pass
93	6415	-6.06	-6.60	-3.31	2.11	-1.2	-1	Pass
97	6435	-5.41	-5.92	-2.65	1.36	-1.29	-1	Pass
113	6515	-5.43	-5.91	-2.65	1.36	-1.29	-1	Pass
117	6535	-5.89	-6.34	-3.10	1.76	-1.34	-1	Pass
185	6875	-5.85	-6.31	-3.06	1.76	-1.3	-1	Pass
209	6995	-4.39	-4.83	-1.59	0.36	-1.23	-1	Pass
229	7095	-4.31	-4.77	-1.52	0.36	-1.16	-1	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

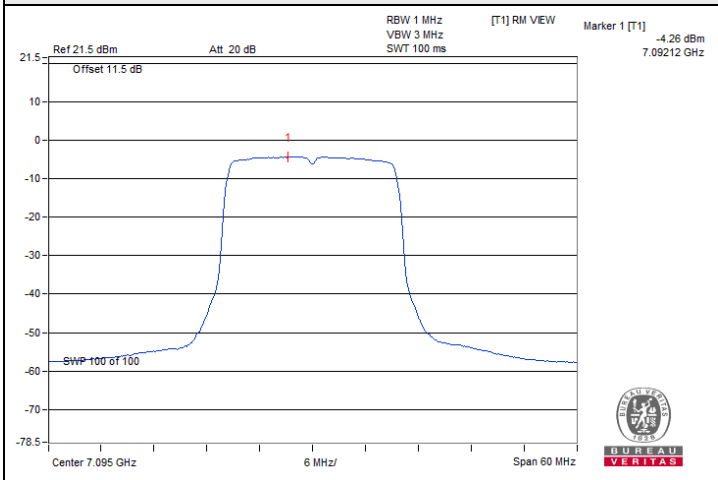
802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
9	5995	-6.25	-6.72	-3.47	2.11	-1.36	-1	Pass
93	6415	-6.02	-6.65	-3.31	2.11	-1.2	-1	Pass
97	6435	-5.42	-5.88	-2.63	1.36	-1.27	-1	Pass
113	6515	-5.40	-5.84	-2.60	1.36	-1.24	-1	Pass
117	6535	-5.80	-6.30	-3.03	1.76	-1.27	-1	Pass
185	6875	-5.89	-6.26	-3.06	1.76	-1.3	-1	Pass
209	6995	-4.32	-4.81	-1.55	0.36	-1.19	-1	Pass
229	7095	-4.44	-4.79	-1.60	0.36	-1.24	-1	Pass

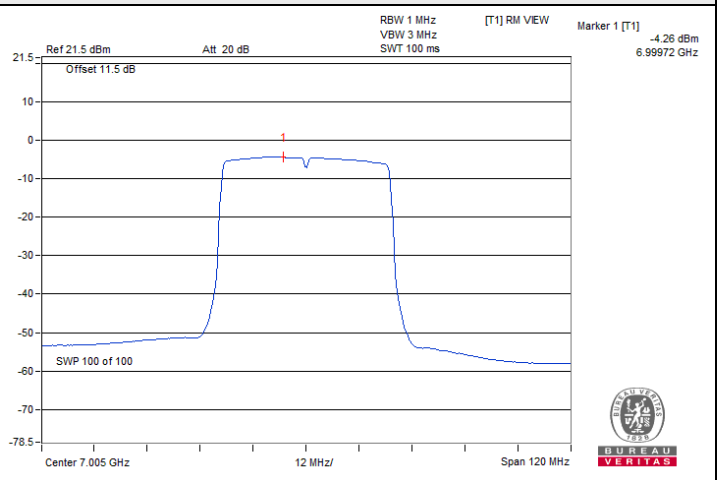
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[($10^{Chain0/20}$ + $10^{Chain1/20}$)^2 / 2]
3. For U-NII-5, The directional gain is 2.11 dBi.
4. For U-NII-6, The directional gain is 1.36 dBi.
5. For U-NII-7, The directional gain is 1.76 dBi.
6. For U-NII-8, The directional gain is 0.36 dBi.

Spectrum Plot of Maximum Value

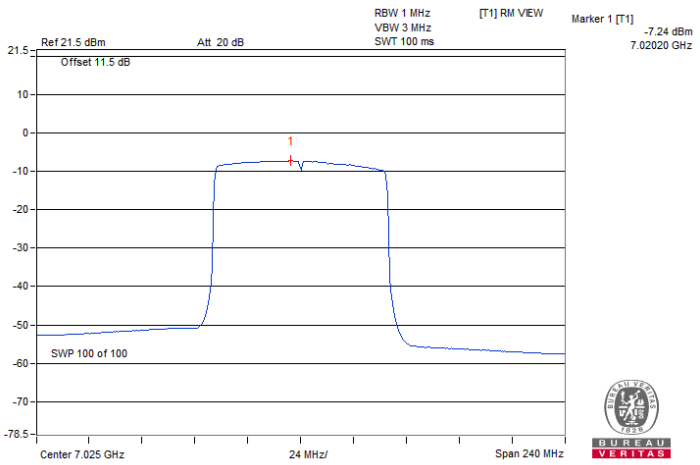


802.11ax (HE20) / Chain 0 : CH 229

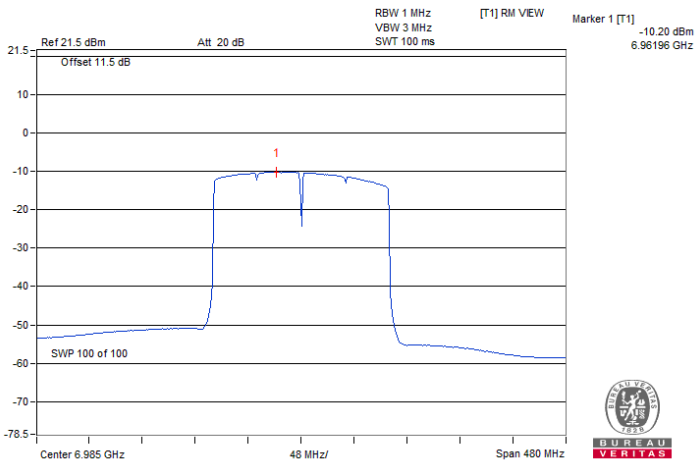


802.11ax (HE40) / Chain 0 : CH 211

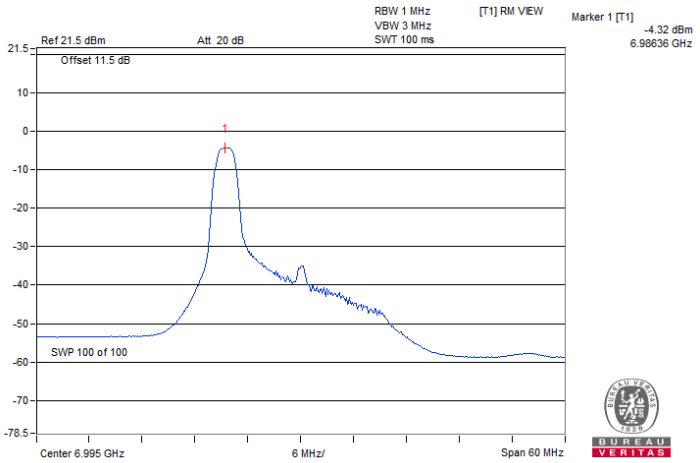
Spectrum Plot of Maximum Value



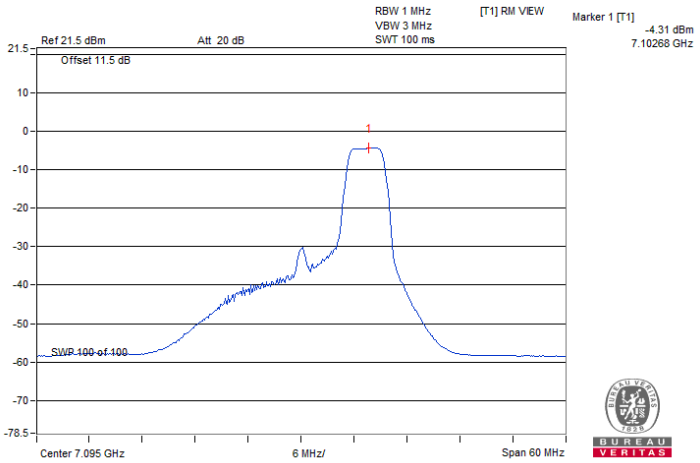
802.11ax (HE80) / Chain 1 : CH 215



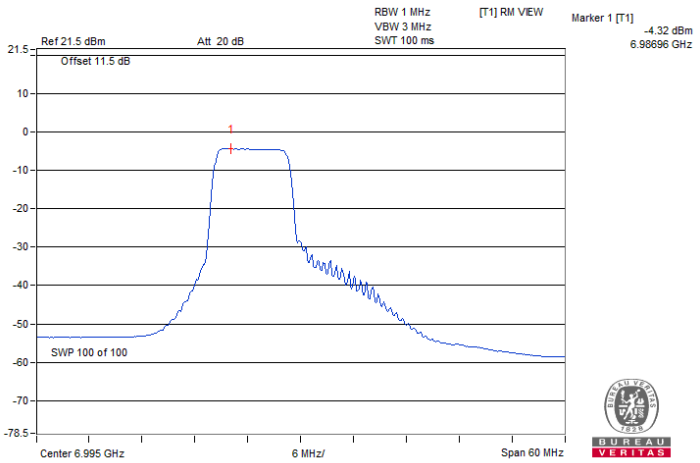
802.11ax (HE160) / Chain 1 : CH 207



802.11ax (HE20) 26-tone RU / Chain 0 : CH 209



802.11ax (HE20) 52-tone RU / Chain 0 : CH 229



802.11ax (HE20) 106-tone RU / Chain 0 : CH 209

7.3 Emission Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	21.44	21.52	320	Pass
45	6175	21.55	21.80	320	Pass
93	6415	21.58	21.56	320	Pass
97	6435	21.58	21.45	320	Pass
105	6475	21.47	21.69	320	Pass
113	6515	21.38	21.32	320	Pass
117	6535	21.69	21.51	320	Pass
149	6695	21.49	21.62	320	Pass
181	6855	21.58	21.79	320	Pass
185	6875	21.55	21.52	320	Pass
209	6995	21.27	21.42	320	Pass
229	7095	21.39	21.40	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
11	6005	41.26	41.17	320	Pass
43	6165	41.11	41.02	320	Pass
91	6405	41.14	41.08	320	Pass
99	6445	41.21	41.09	320	Pass
107	6485	41.18	41.30	320	Pass
115	6525	41.25	41.04	320	Pass
123	6565	41.25	41.25	320	Pass
155	6725	41.12	41.31	320	Pass
179	6845	41.17	41.29	320	Pass
187	6885	41.10	41.34	320	Pass
211	7005	41.03	41.30	320	Pass
227	7085	41.11	40.90	320	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
23	6065	83.26	83.16	320	Pass
39	6145	83.30	83.75	320	Pass
87	6385	83.52	83.82	320	Pass
103	6465	83.46	83.75	320	Pass
119	6545	83.86	83.54	320	Pass
151	6705	83.56	83.22	320	Pass
183	6865	83.86	82.89	320	Pass
199	6945	83.05	83.48	320	Pass
215	7025	83.71	83.23	320	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
47	6185	167.57	166.90	320	Pass
79	6345	167.72	166.55	320	Pass
111	6505	167.14	167.41	320	Pass
143	6665	166.85	167.25	320	Pass
175	6825	167.07	167.27	320	Pass
207	6985	166.81	166.87	320	Pass

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	21.52	21.56	320	Pass
93	6415	21.11	21.13	320	Pass
97	6435	21.53	21.49	320	Pass
113	6515	21.36	21.13	320	Pass
117	6535	21.42	21.52	320	Pass
185	6875	20.99	21.14	320	Pass
209	6995	21.41	21.45	320	Pass
229	7095	21.09	20.91	320	Pass

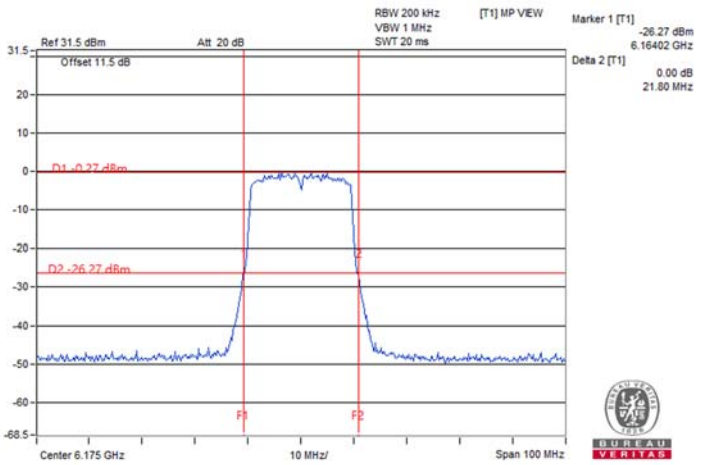
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	22.03	22.26	320	Pass
93	6415	22.03	21.38	320	Pass
97	6435	22.19	22.23	320	Pass
113	6515	21.31	21.45	320	Pass
117	6535	22.15	22.30	320	Pass
185	6875	21.46	21.44	320	Pass
209	6995	22.17	21.91	320	Pass
229	7095	21.12	21.18	320	Pass

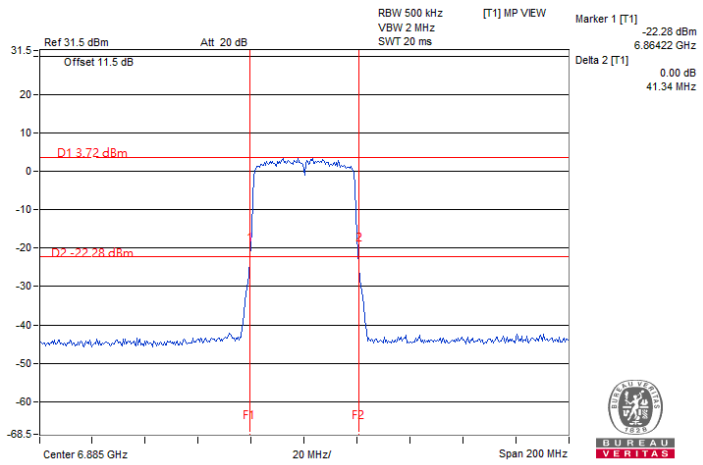
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	22.36	22.44	320	Pass
93	6415	22.33	22.13	320	Pass
97	6435	22.58	22.59	320	Pass
113	6515	22.21	22.13	320	Pass
117	6535	22.03	22.46	320	Pass
185	6875	22.21	22.17	320	Pass
209	6995	22.36	22.27	320	Pass
229	7095	22.19	21.85	320	Pass

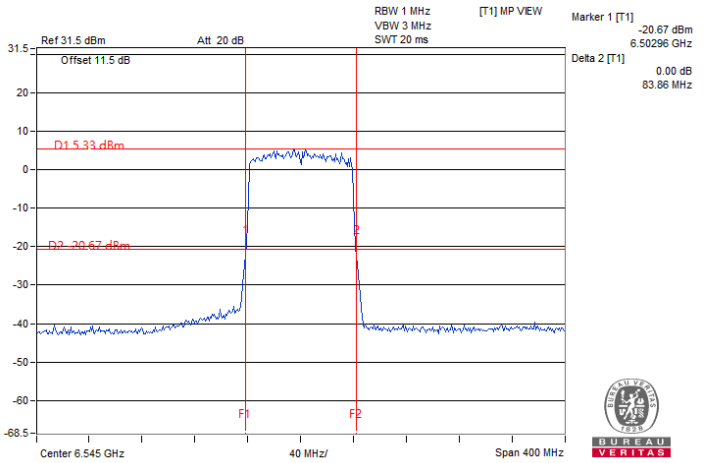
Spectrum Plot of Maximum Value



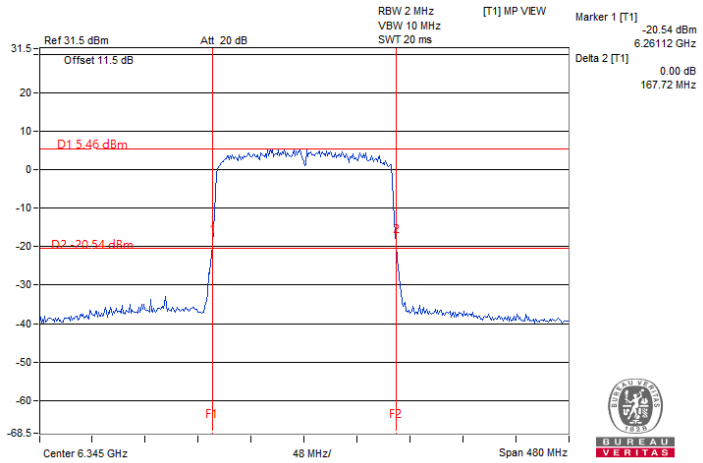
802.11ax (HE20) / Chain 1 : CH 45



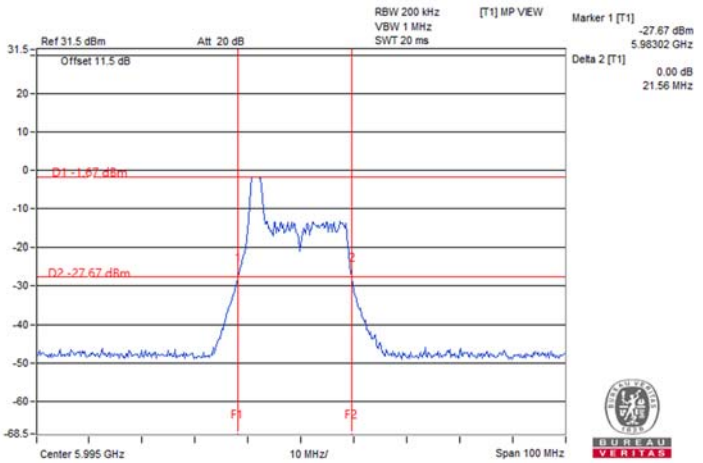
802.11ax (HE40) / Chain 1 : CH 187



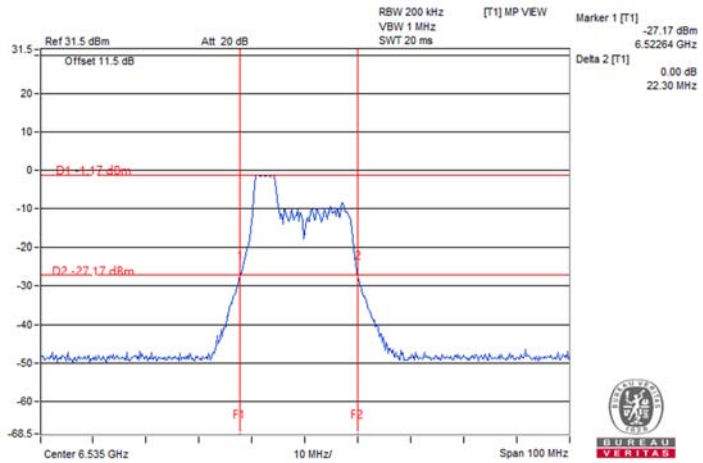
802.11ax (HE80) / Chain 0 : CH 119



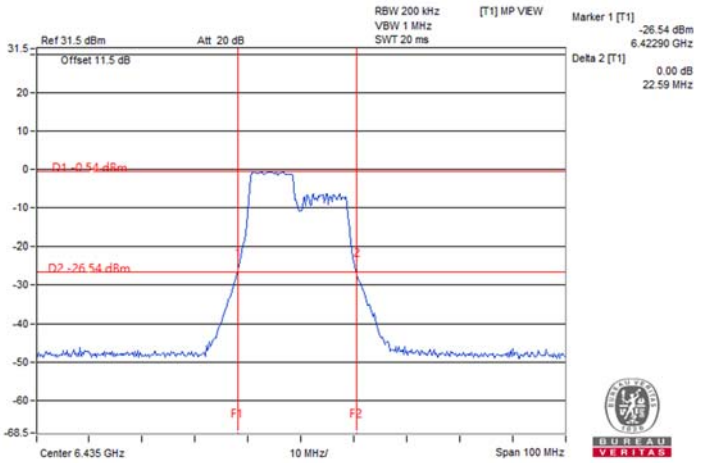
802.11ax (HE160) / Chain 0 : CH 79



802.11ax (HE20) 26-tone RU / Chain 1 : CH 9



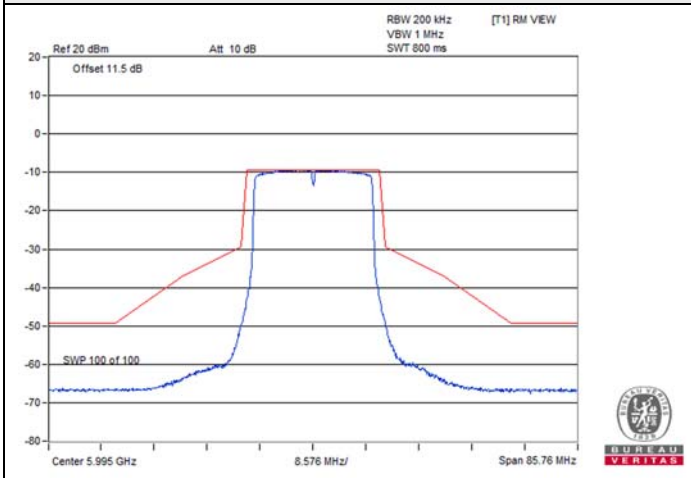
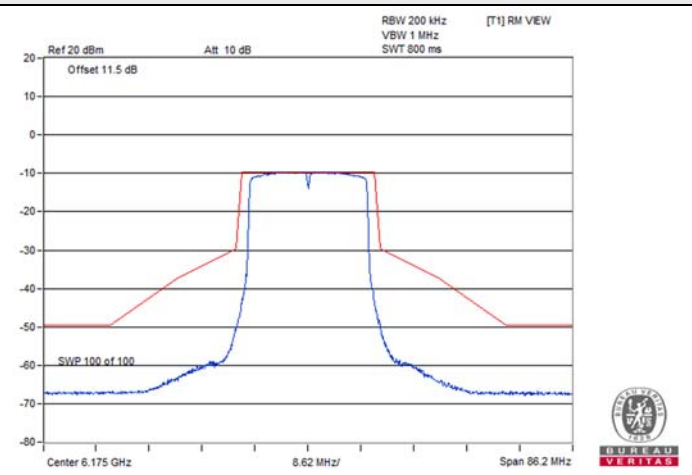
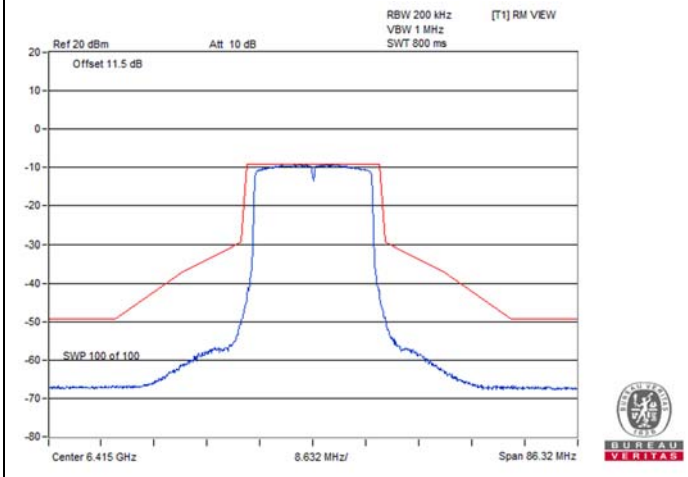
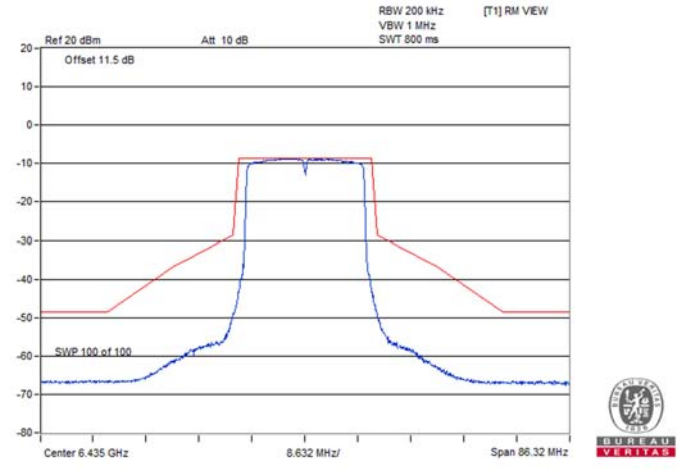
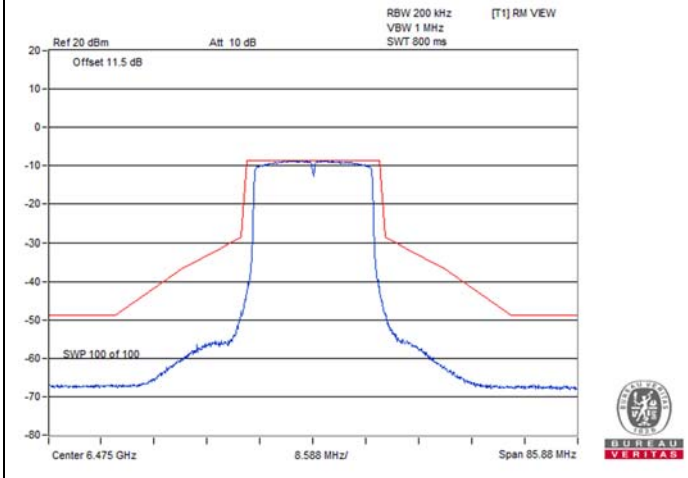
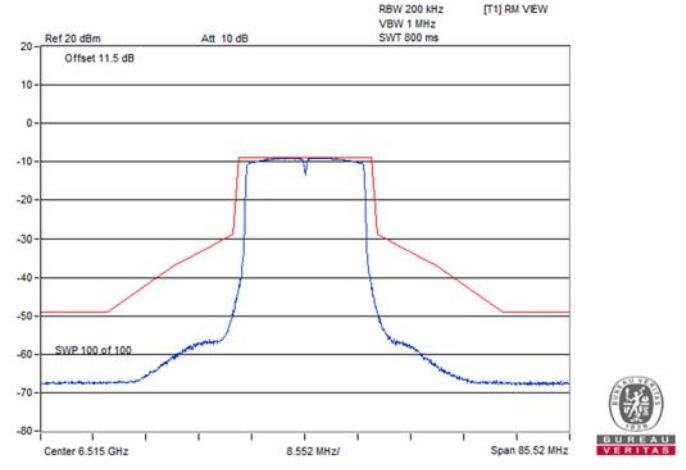
802.11ax (HE20) 52-tone RU / Chain 1 : CH 117

Spectrum Plot of Maximum Value	
 802.11ax (HE20) 106-tone RU / Chain 1 : CH 97	

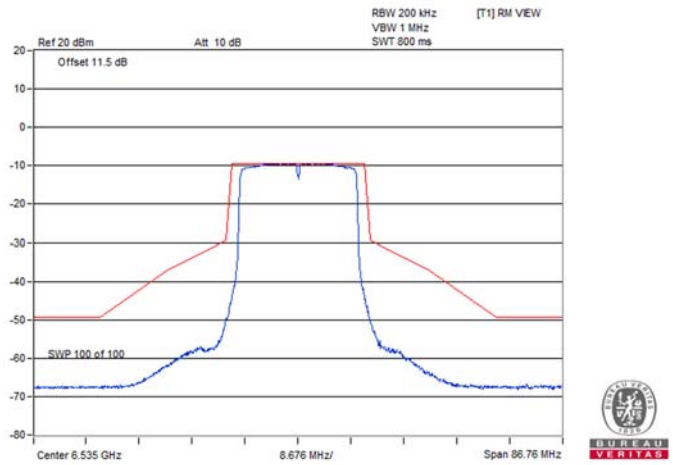
7.4 In-Band Emission Mask

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

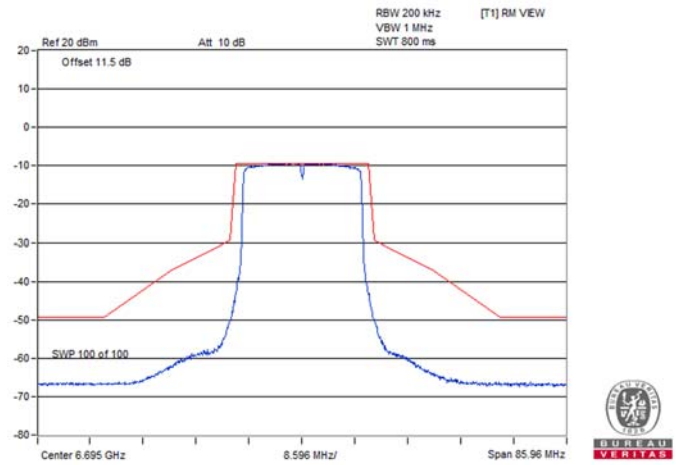
802.11ax (HE20)

Spectrum Plot	
	
802.11ax (HE20) / Chain 0 : CH 9	802.11ax (HE20) / Chain 0 : CH 45
	
802.11ax (HE20) / Chain 0 : CH 93	802.11ax (HE20) / Chain 0 : CH 97
	
802.11ax (HE20) / Chain 0 : CH 105	802.11ax (HE20) / Chain 0 : CH 113

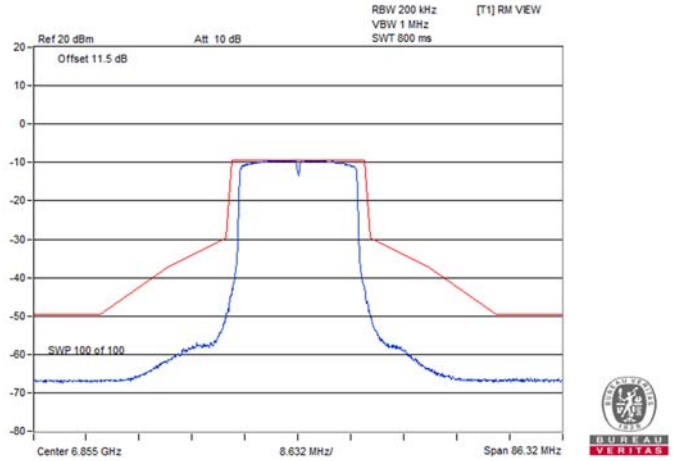
Spectrum Plot



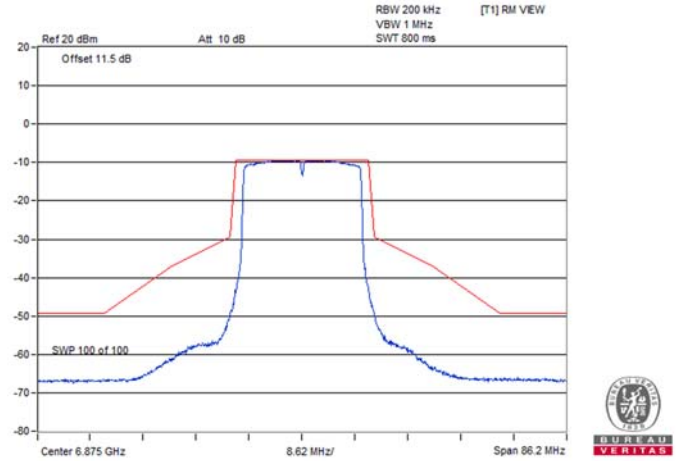
802.11ax (HE20) / Chain 0 : CH 117



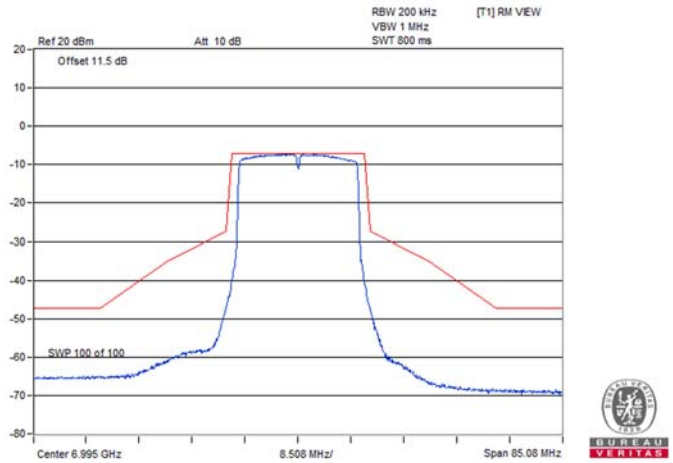
802.11ax (HE20) / Chain 0 : CH 149



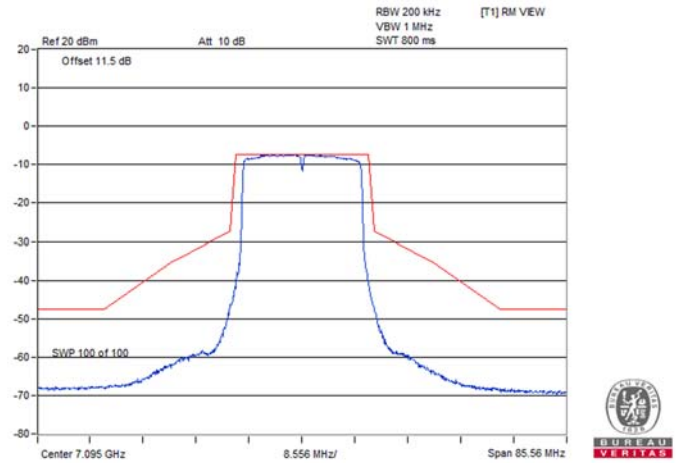
802.11ax (HE20) / Chain 0 : CH 181



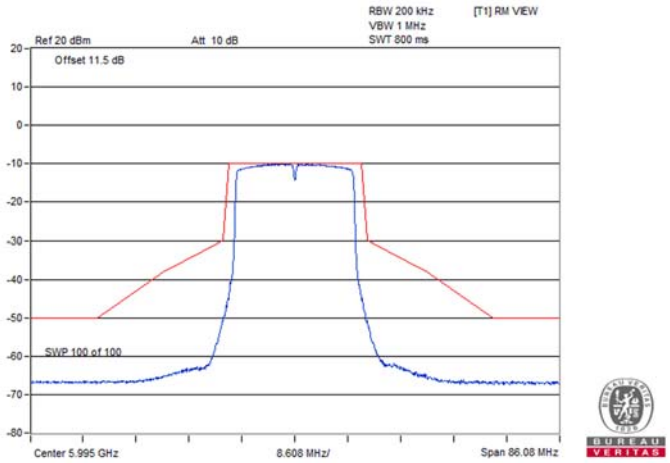
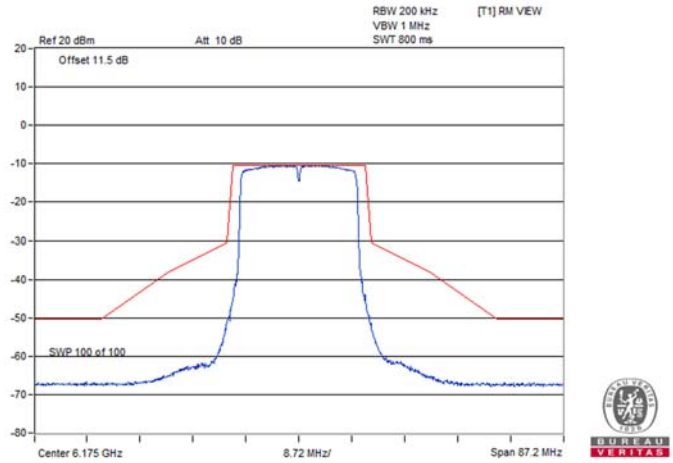
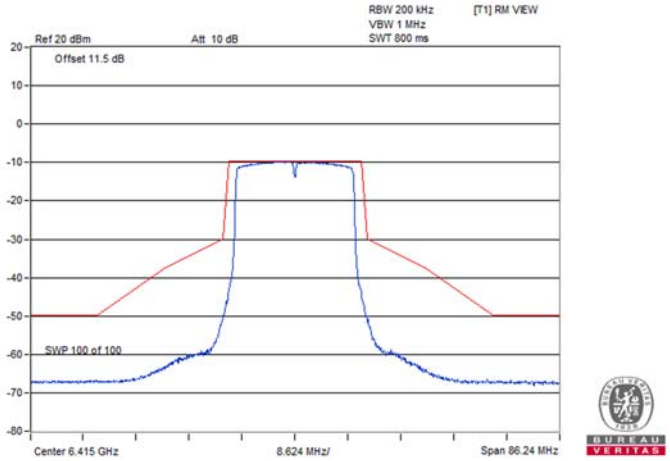
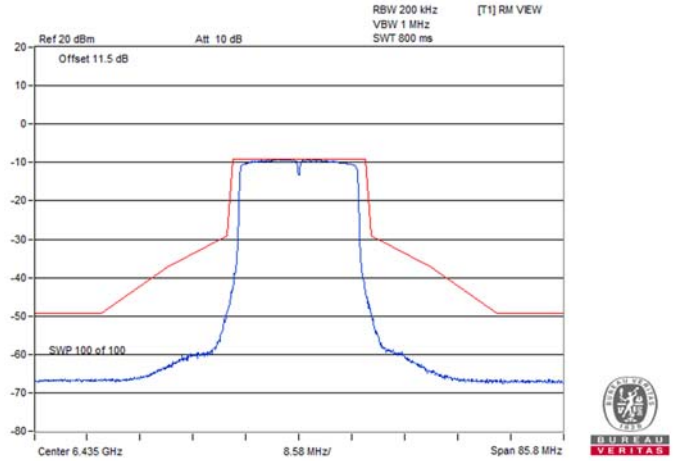
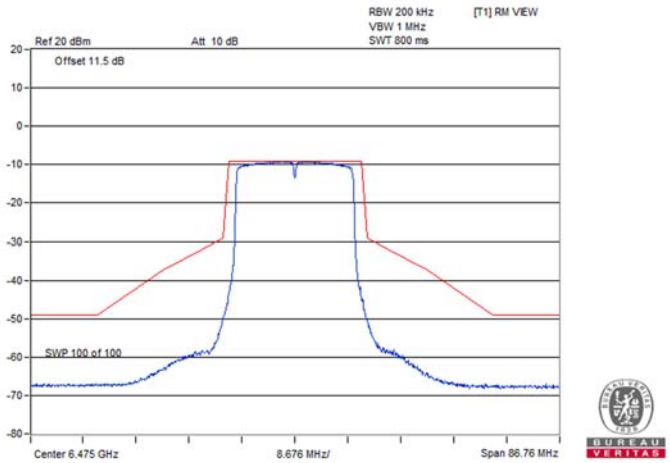
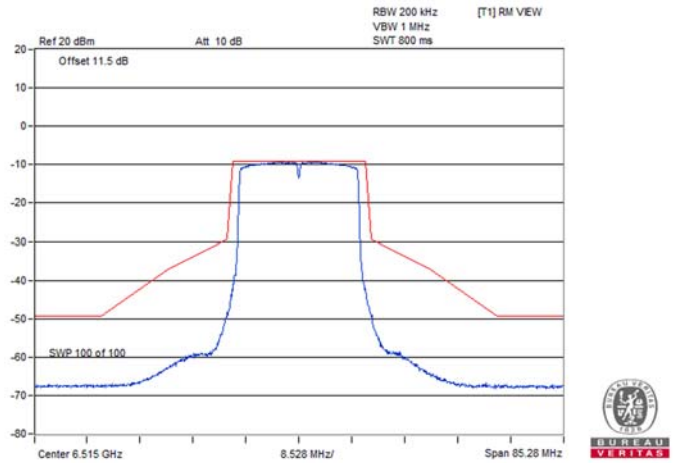
802.11ax (HE20) / Chain 0 : CH 185

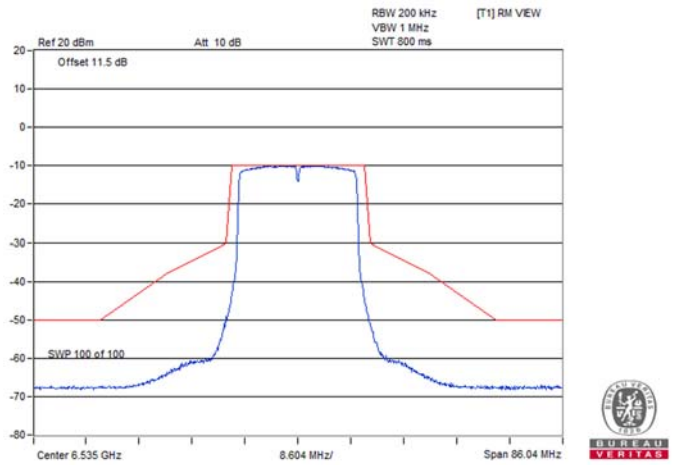
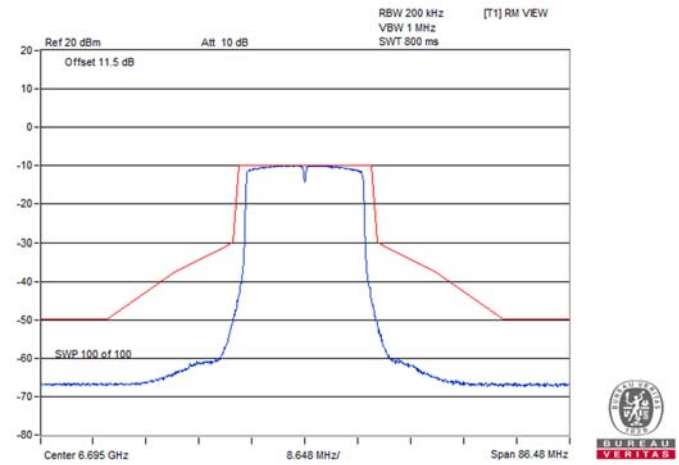
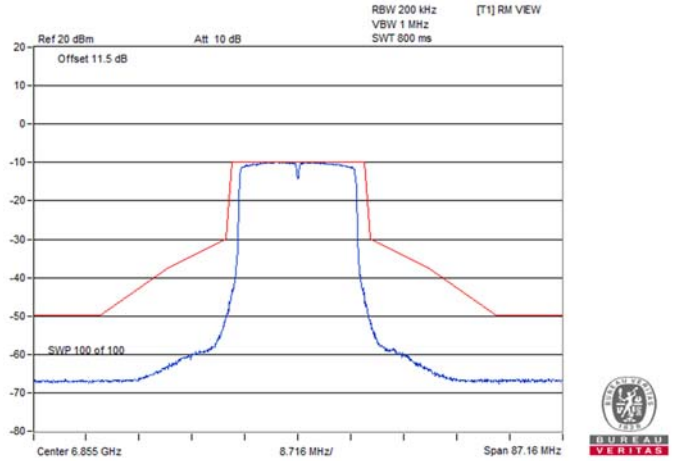
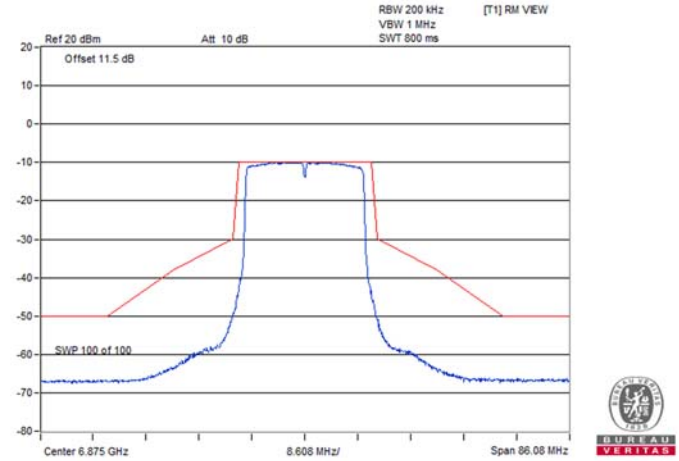
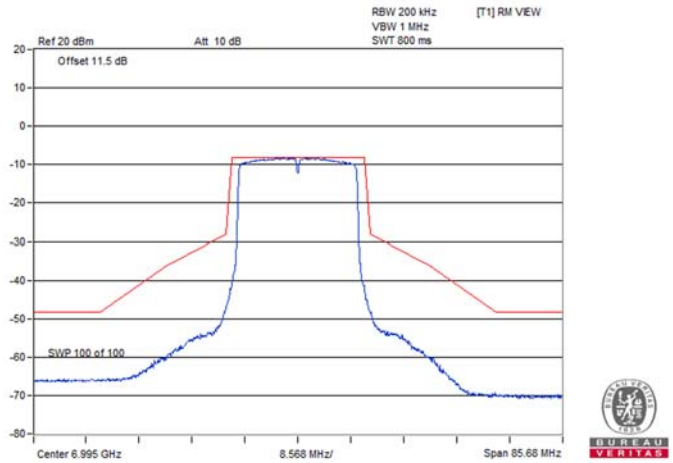
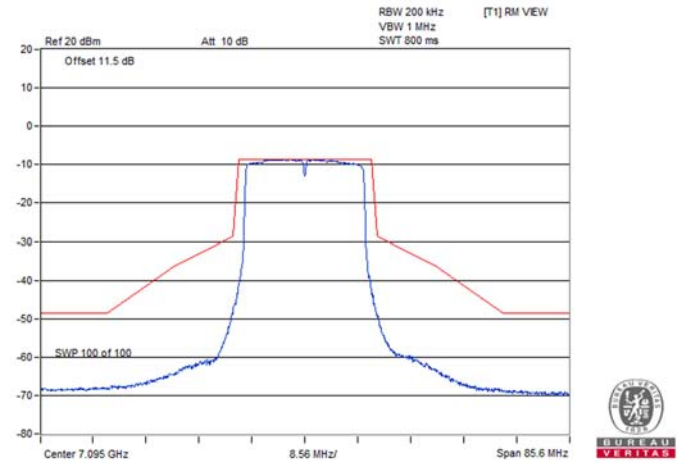


802.11ax (HE20) / Chain 0 : CH 209

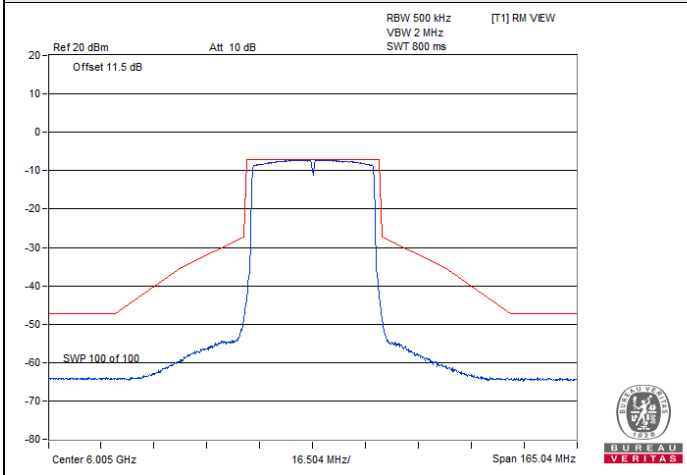
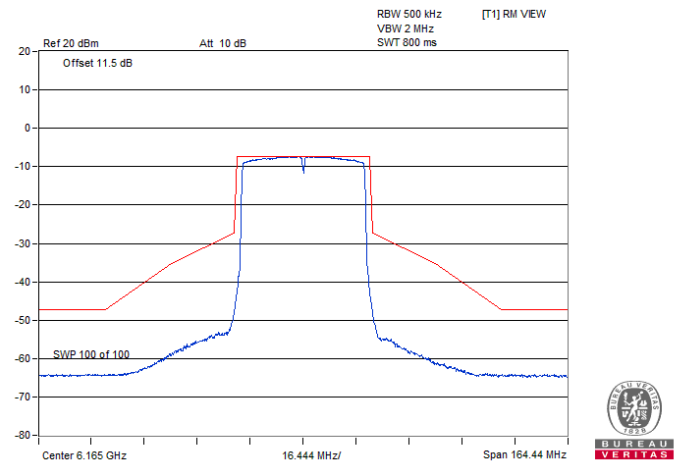
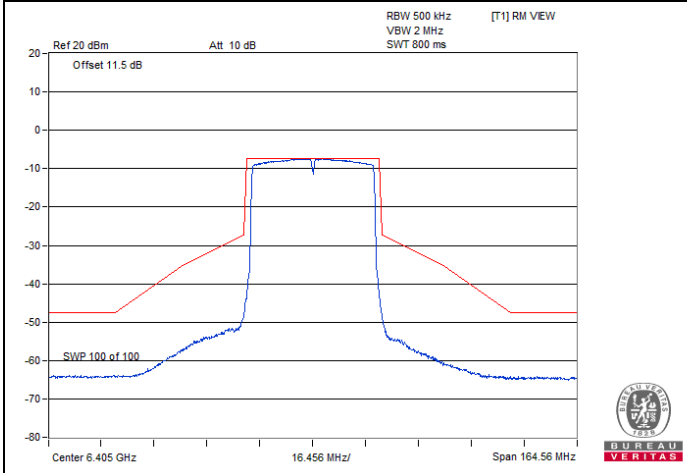
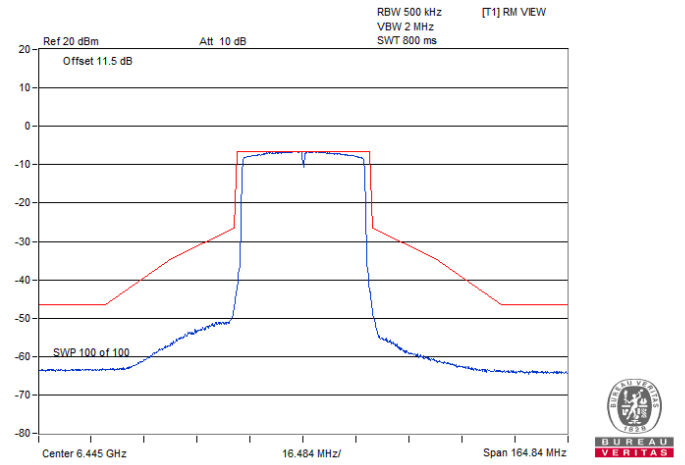
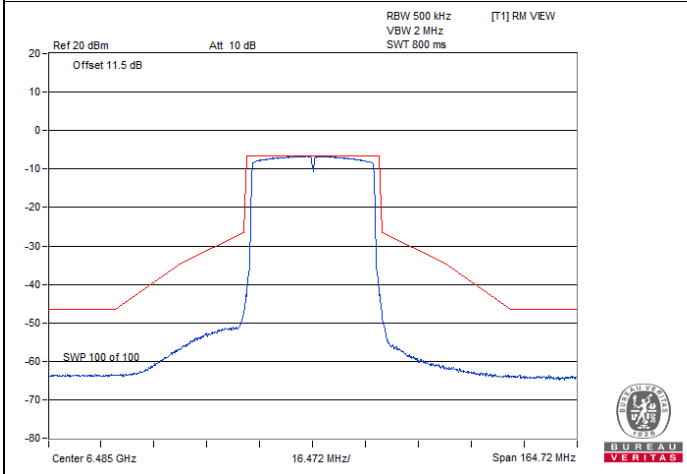
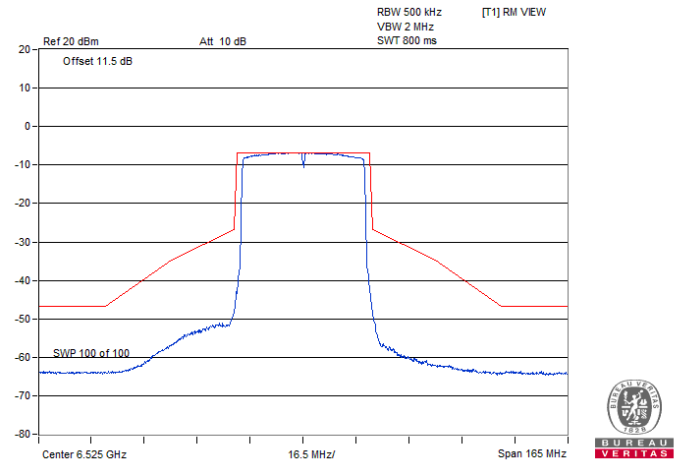


802.11ax (HE20) / Chain 0 : CH 229

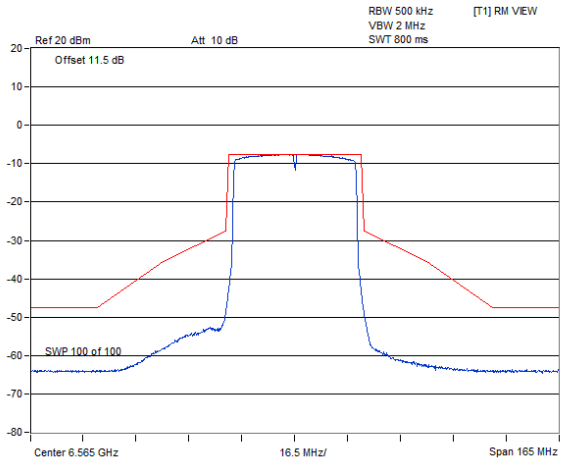
Spectrum Plot	
	
802.11ax (HE20) / Chain 1 : CH 9	802.11ax (HE20) / Chain 1 : CH 45
	
802.11ax (HE20) / Chain 1 : CH 93	802.11ax (HE20) / Chain 1 : CH 97
	
802.11ax (HE20) / Chain 1 : CH 105	802.11ax (HE20) / Chain 1 : CH 113

Spectrum Plot	
 802.11ax (HE20) / Chain 1 : CH 117	 802.11ax (HE20) / Chain 1 : CH 149
 802.11ax (HE20) / Chain 1 : CH 181	 802.11ax (HE20) / Chain 1 : CH 185
 802.11ax (HE20) / Chain 1 : CH 209	 802.11ax (HE20) / Chain 1 : CH 229

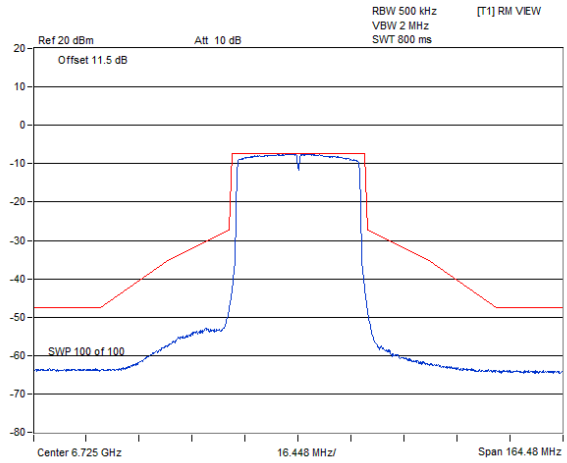
802.11ax (HE40)

Spectrum Plot	
	
802.11ax (HE40) / Chain 0 : CH 11	802.11ax (HE40) / Chain 0 : CH 43
	
802.11ax (HE40) / Chain 0 : CH 91	802.11ax (HE40) / Chain 0 : CH 99
	
802.11ax (HE40) / Chain 0 : CH 107	802.11ax (HE40) / Chain 0 : CH 115

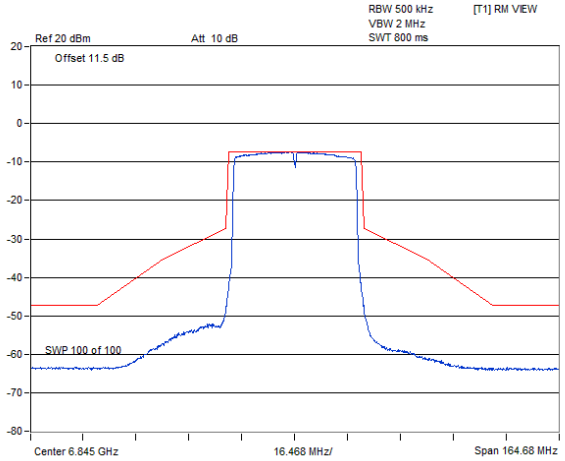
Spectrum Plot



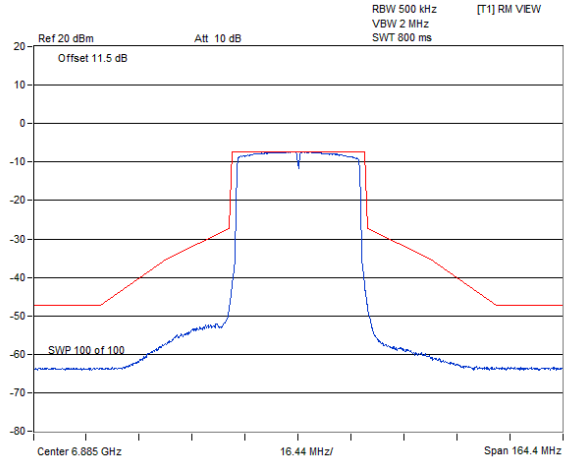
802.11ax (HE40) / Chain 0 : CH 123



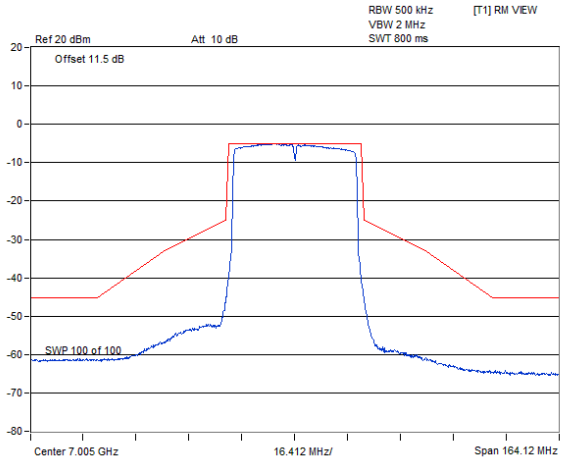
802.11ax (HE40) / Chain 0 : CH 155



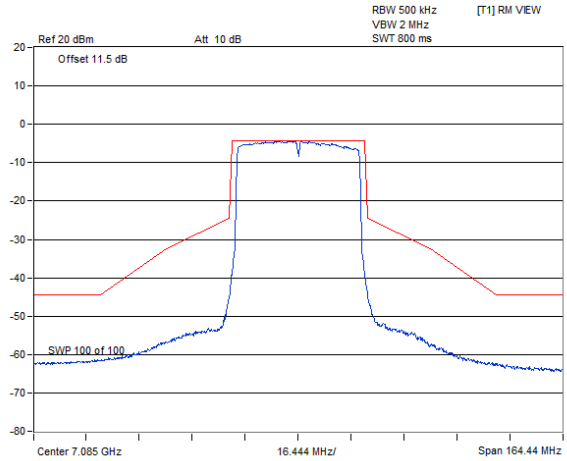
802.11ax (HE40) / Chain 0 : CH 179



802.11ax (HE40) / Chain 0 : CH 187

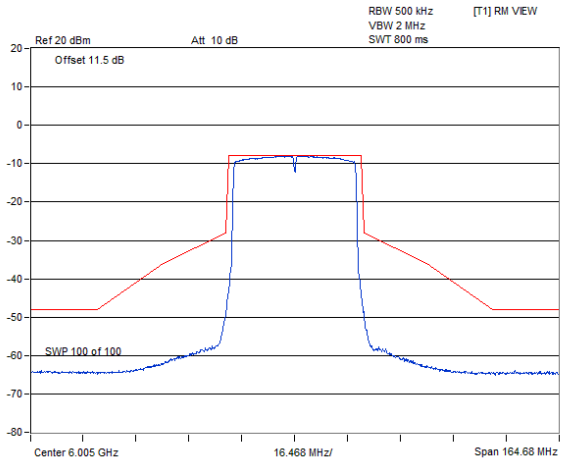


802.11ax (HE40) / Chain 0 : CH 211

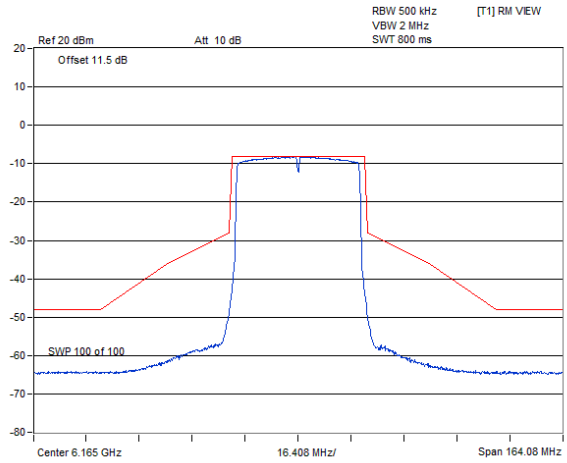


802.11ax (HE40) / Chain 0 : CH 227

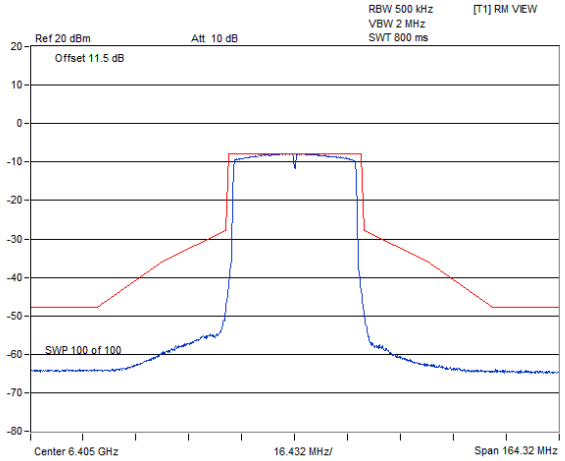
Spectrum Plot



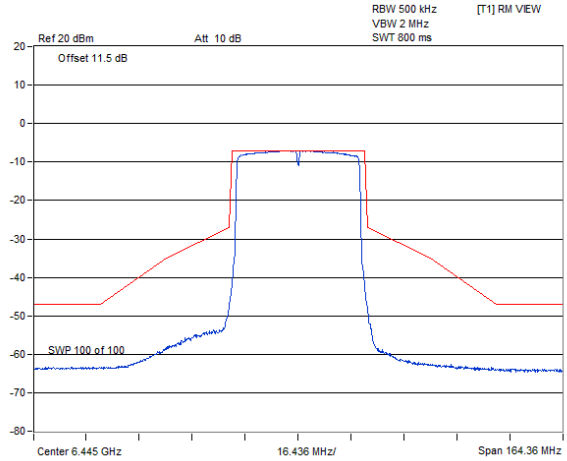
802.11ax (HE40) / Chain 1 : CH 11



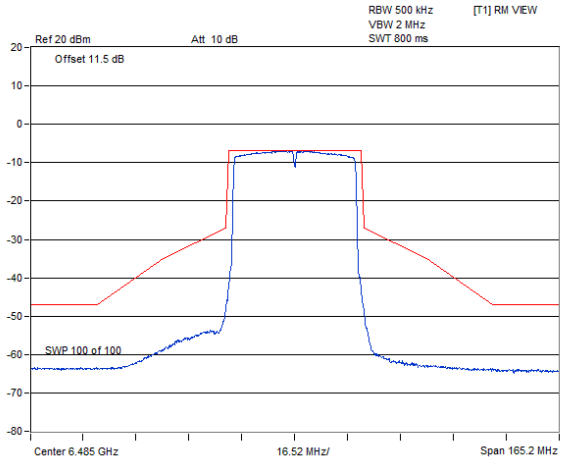
802.11ax (HE40) / Chain 1 : CH 43



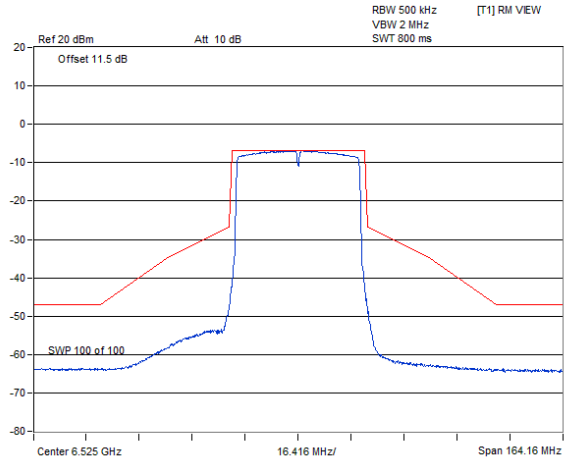
802.11ax (HE40) / Chain 1 : CH 91



802.11ax (HE40) / Chain 1 : CH 99

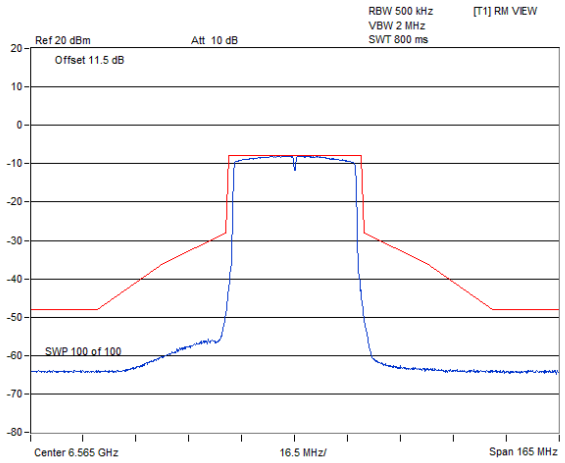


802.11ax (HE40) / Chain 1 : CH 107

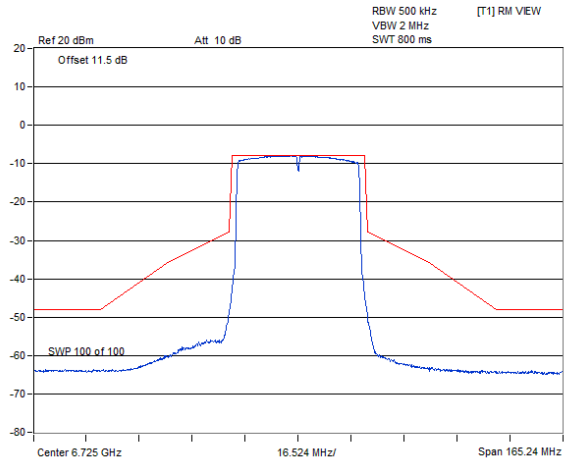


802.11ax (HE40) / Chain 1 : CH 115

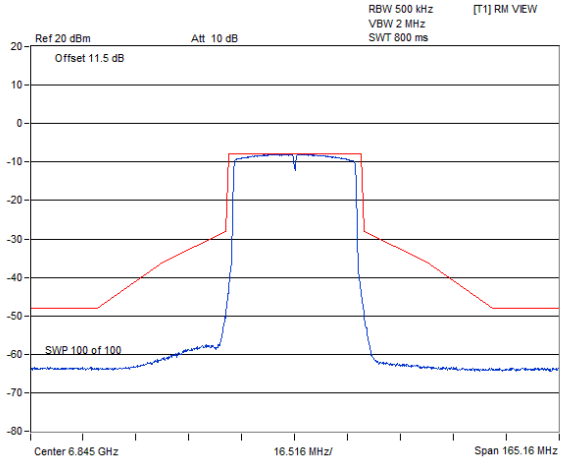
Spectrum Plot



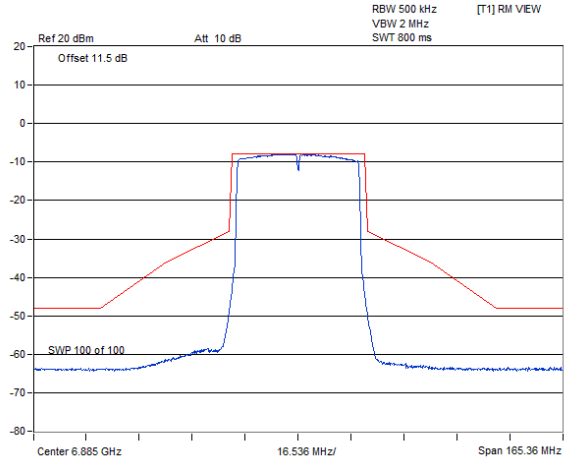
802.11ax (HE40) / Chain 1 : CH 123



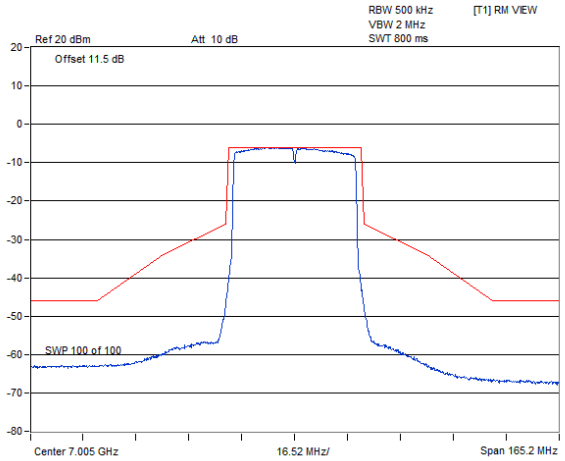
802.11ax (HE40) / Chain 1 : CH 155



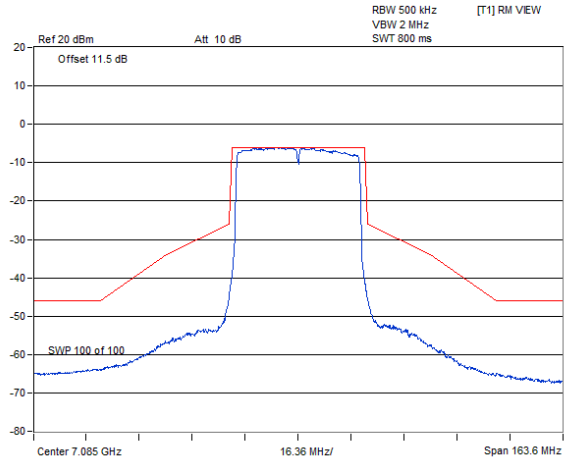
802.11ax (HE40) / Chain 1 : CH 179



802.11ax (HE40) / Chain 1 : CH 187

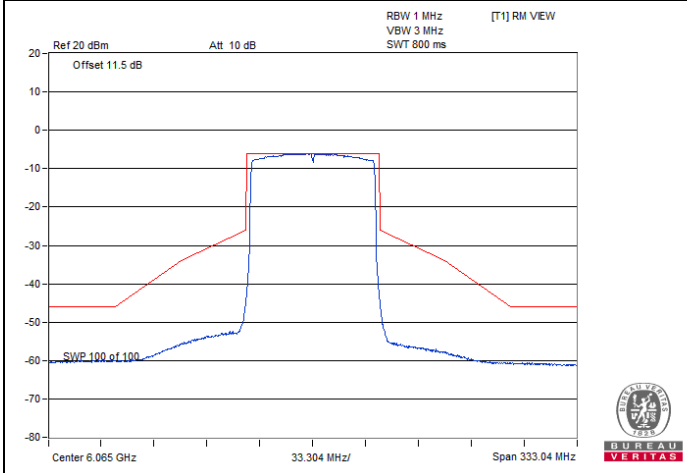
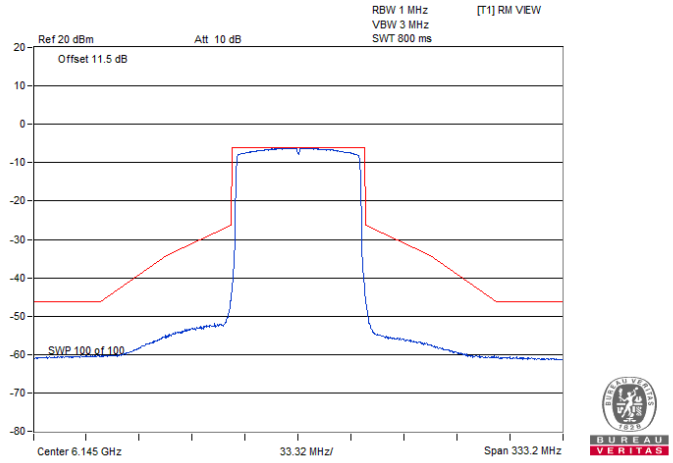
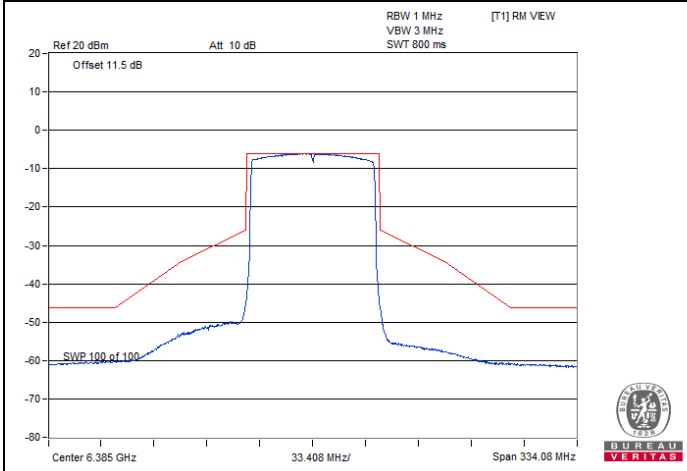
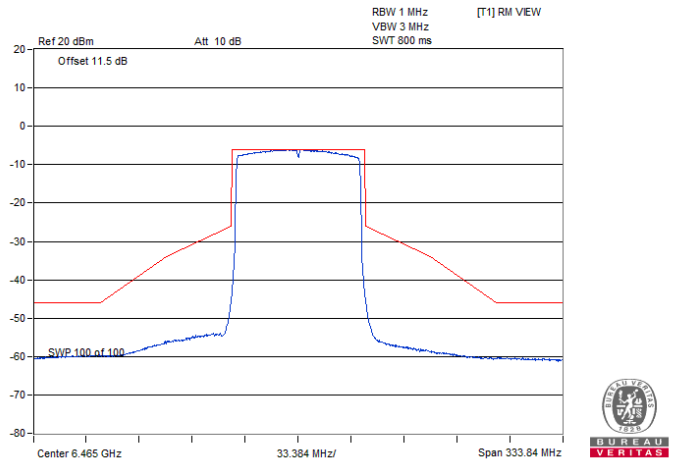
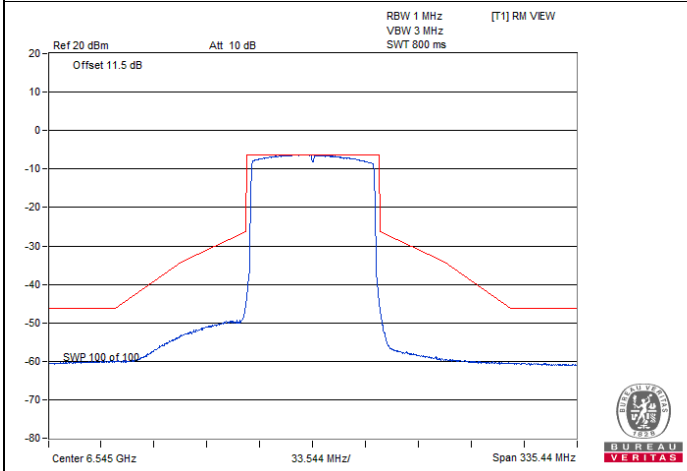
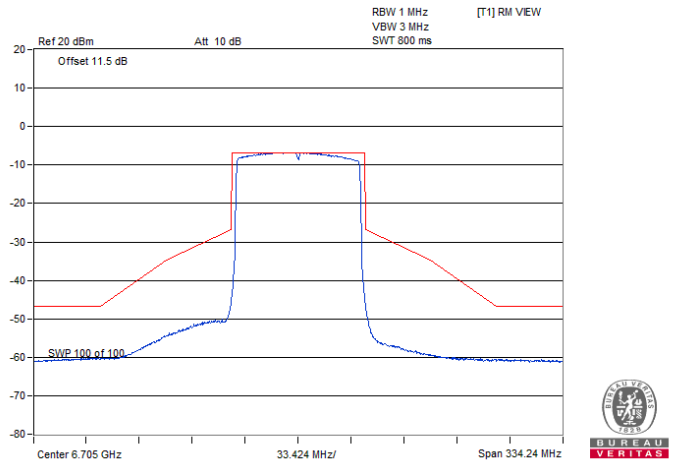


802.11ax (HE40) / Chain 1 : CH 211

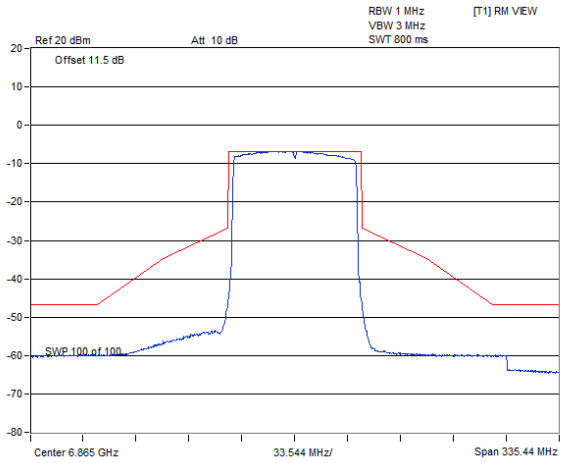


802.11ax (HE40) / Chain 1 : CH 227

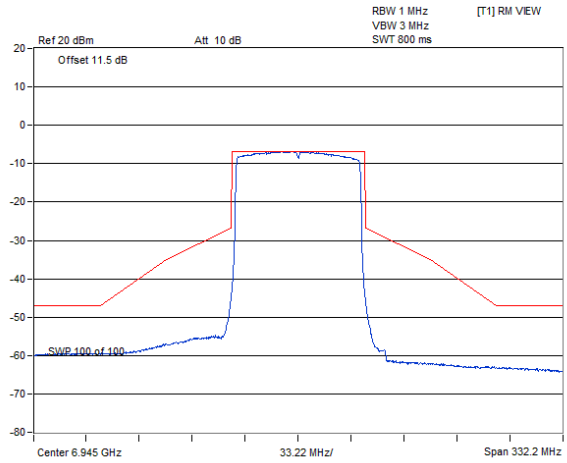
802.11ax (HE80)

Spectrum Plot	
	
802.11ax (HE80) / Chain 0 : CH 23	802.11ax (HE80) / Chain 0 : CH 39
	
802.11ax (HE80) / Chain 0 : CH 87	802.11ax (HE80) / Chain 0 : CH 103
	
802.11ax (HE80) / Chain 0 : CH 119	802.11ax (HE80) / Chain 0 : CH 151

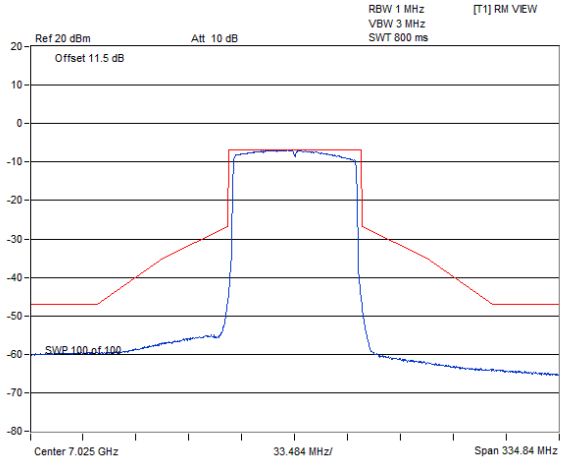
Spectrum Plot



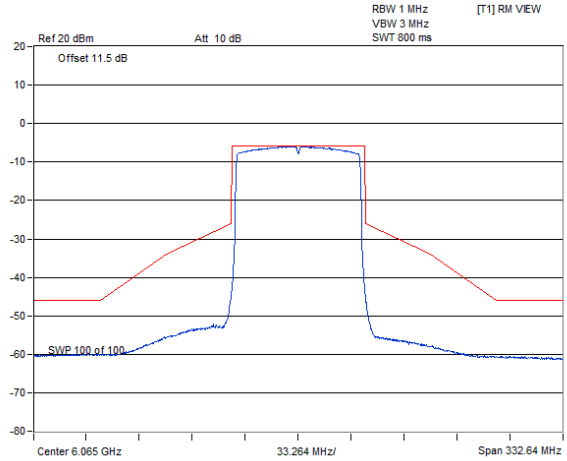
802.11ax (HE80) / Chain 0 : CH 183



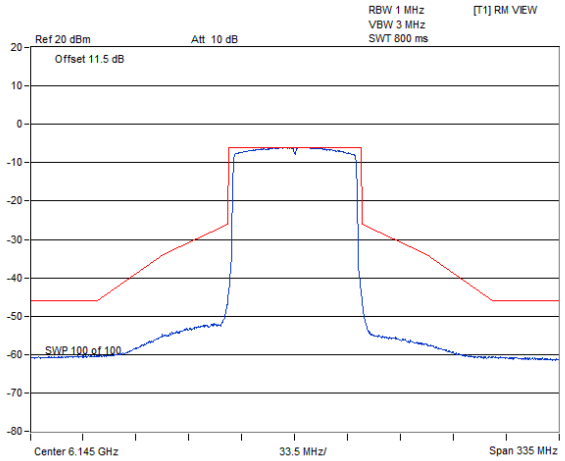
802.11ax (HE80) / Chain 0 : CH 199



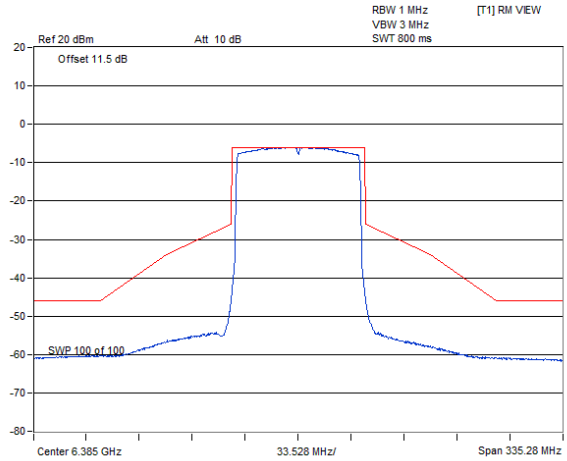
802.11ax (HE80) / Chain 0 : CH 215



802.11ax (HE80) / Chain 1 : CH 23

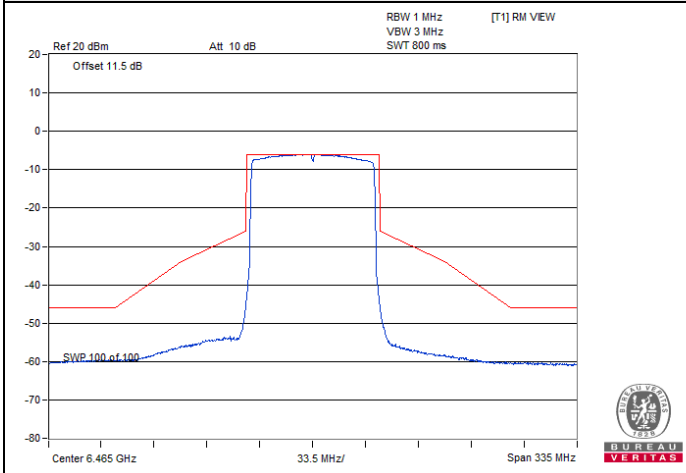


802.11ax (HE80) / Chain 1 : CH 39

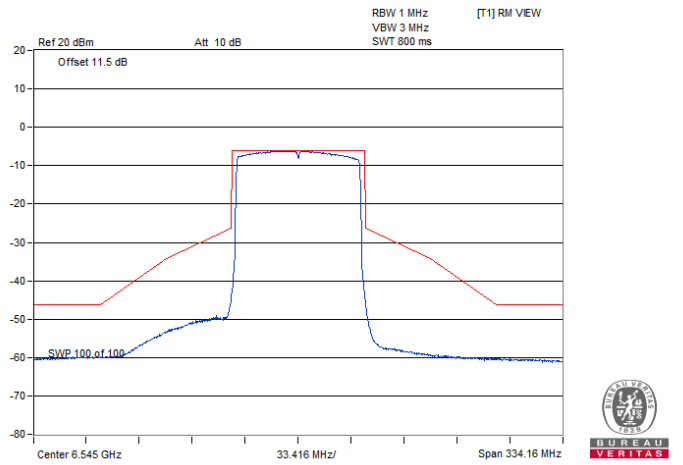


802.11ax (HE80) / Chain 1 : CH 87

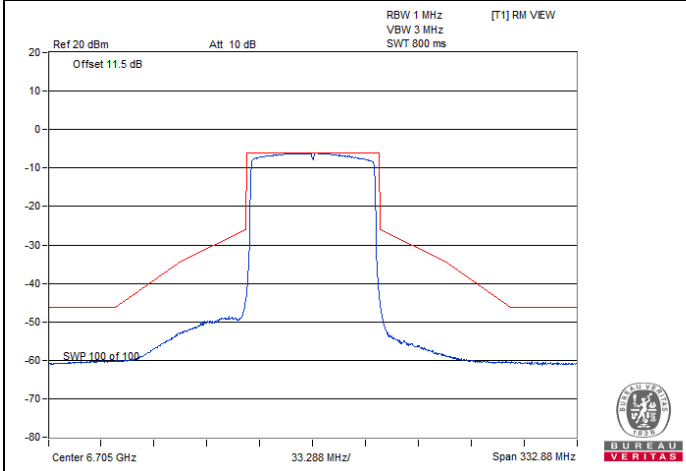
Spectrum Plot



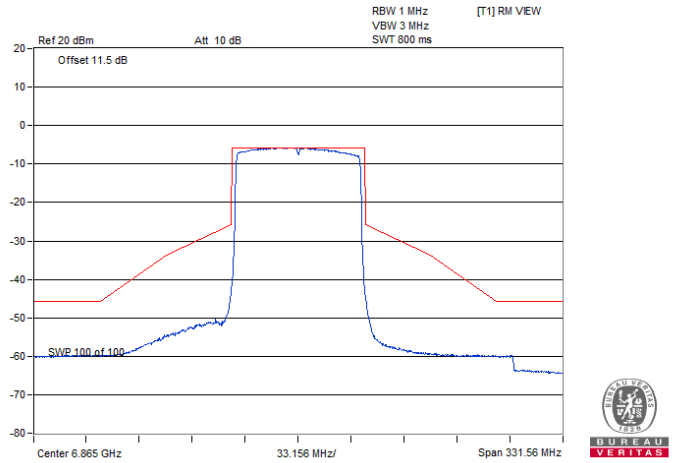
802.11ax (HE80) / Chain 1 : CH 103



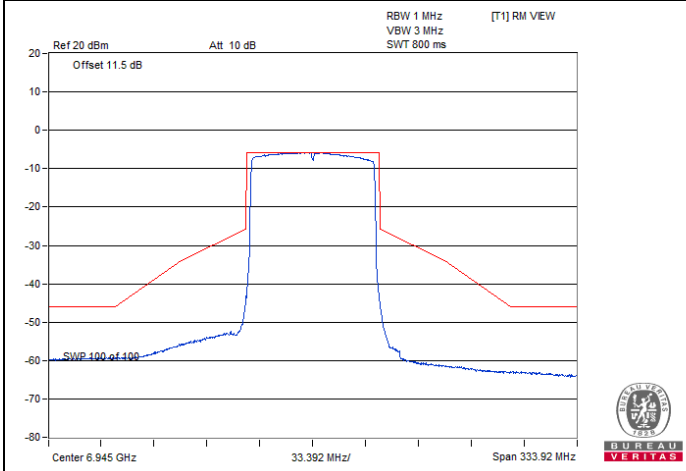
802.11ax (HE80) / Chain 1 : CH 119



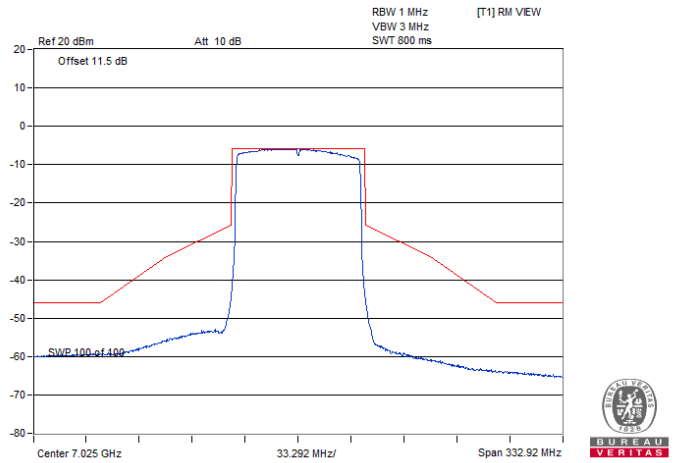
802.11ax (HE80) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 183

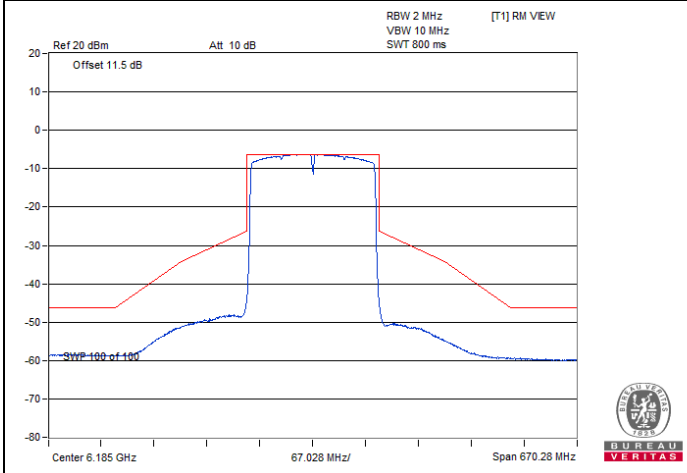
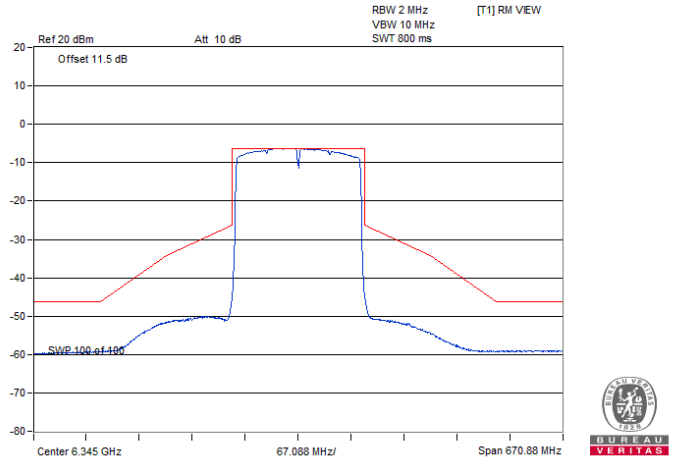
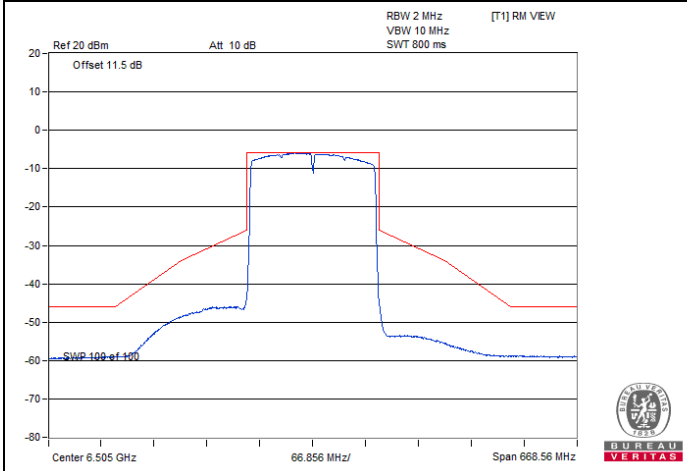
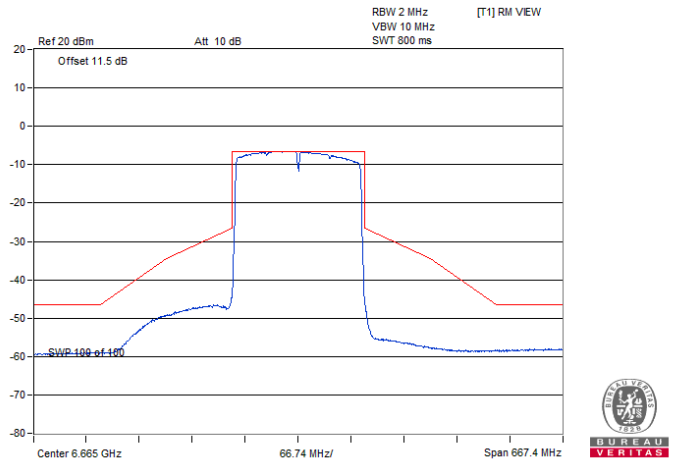
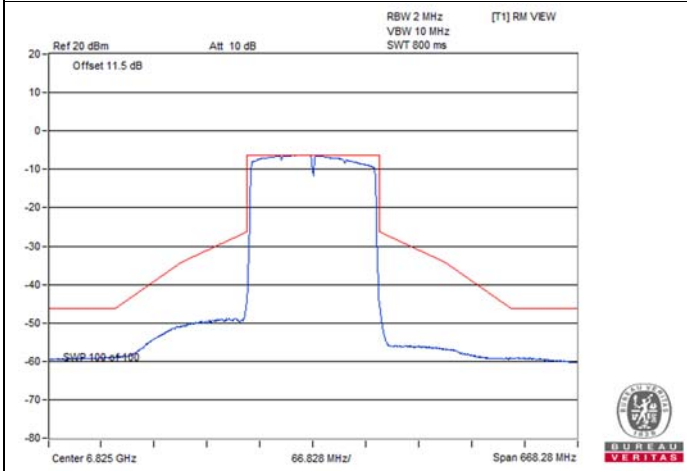
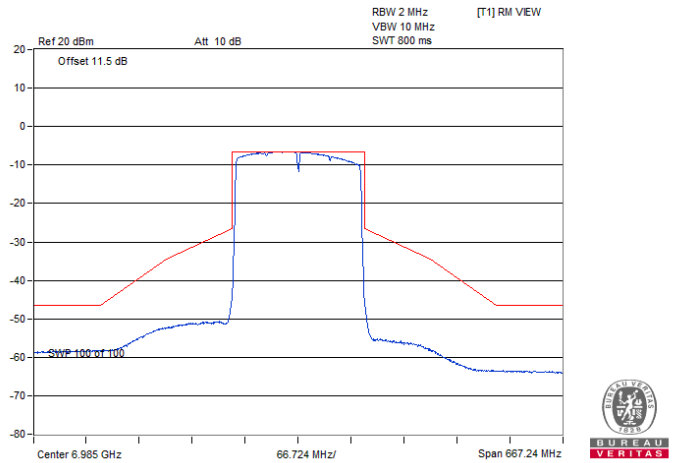


802.11ax (HE80) / Chain 1 : CH 199

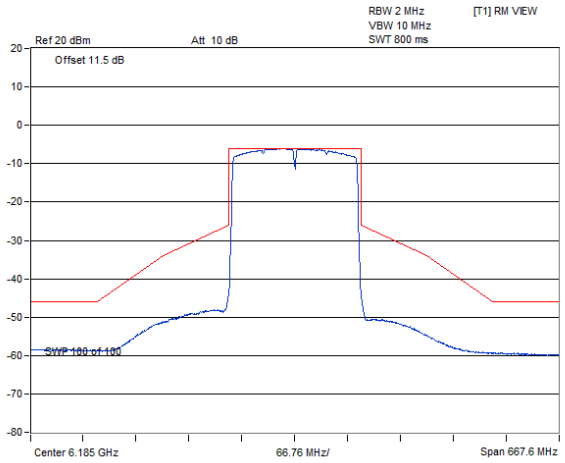


802.11ax (HE80) / Chain 1 : CH 215

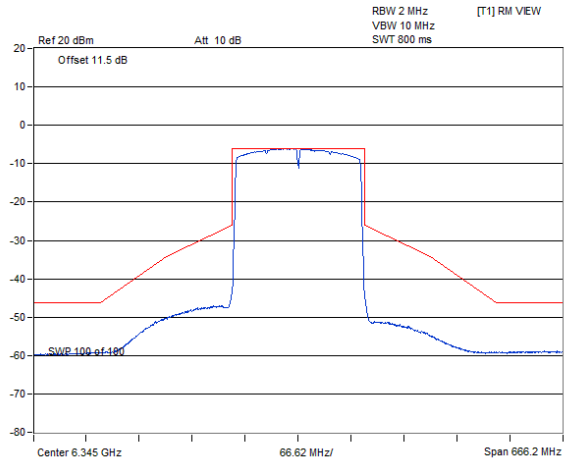
802.11ax (HE160)

Spectrum Plot	
	
802.11ax (HE160) / Chain 0 : CH 47	802.11ax (HE160) / Chain 0 : CH 79
	
802.11ax (HE160) / Chain 0 : CH 111	802.11ax (HE160) / Chain 0 : CH 143
	
802.11ax (HE160) / Chain 0 : CH 175	802.11ax (HE160) / Chain 0 : CH 207

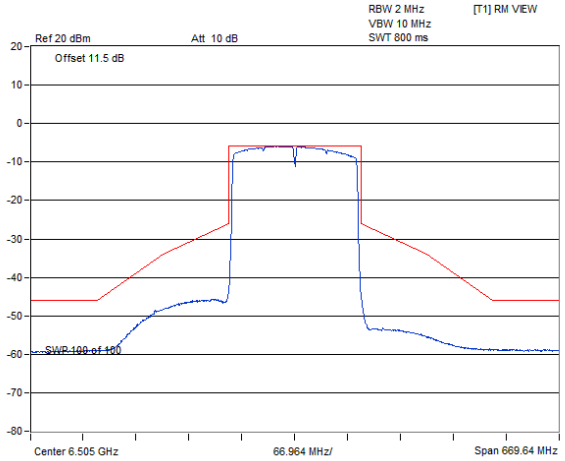
Spectrum Plot



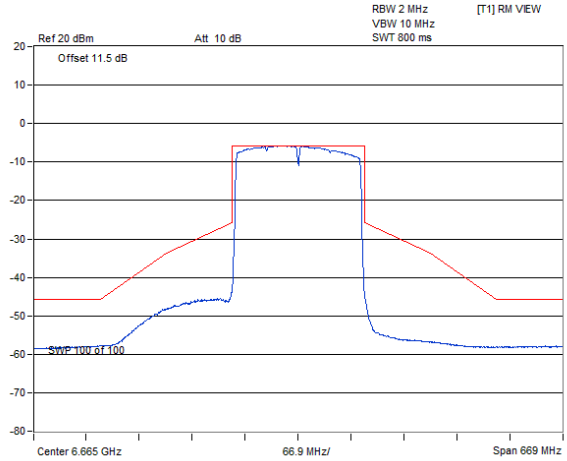
802.11ax (HE160) / Chain 1 : CH 47



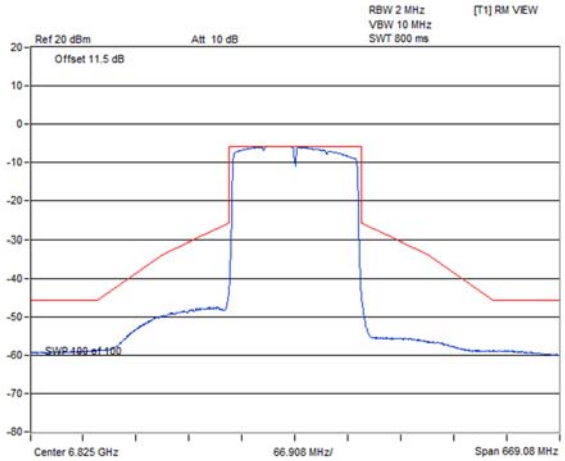
802.11ax (HE160) / Chain 1 : CH 79



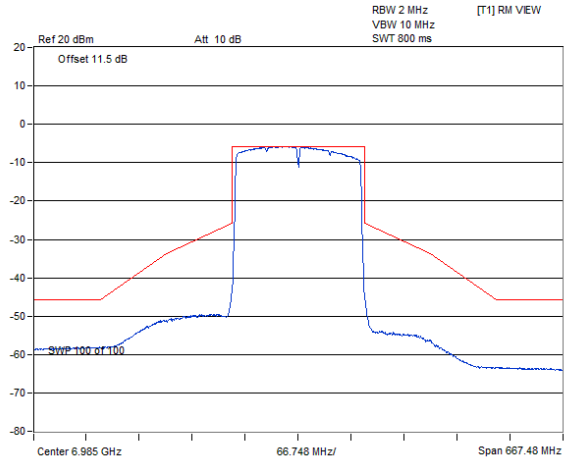
802.11ax (HE160) / Chain 1 : CH 111



802.11ax (HE160) / Chain 1 : CH 143

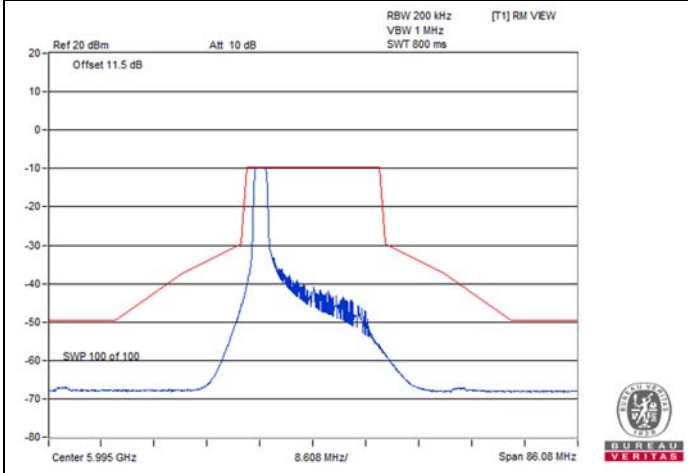
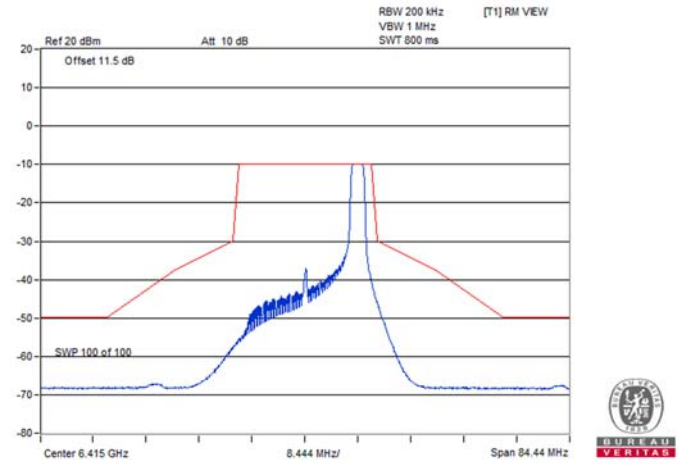
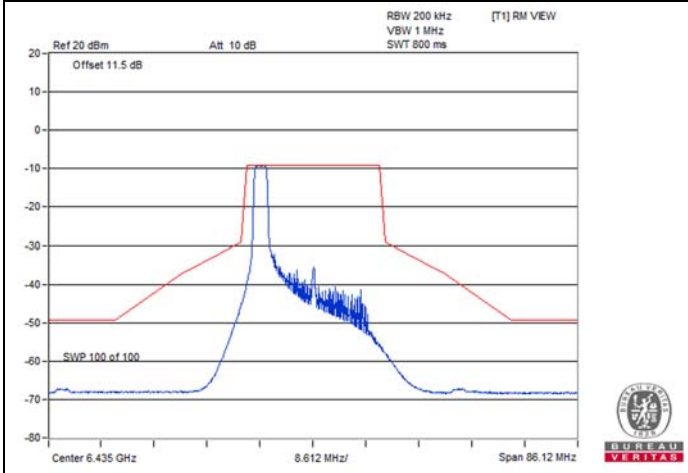
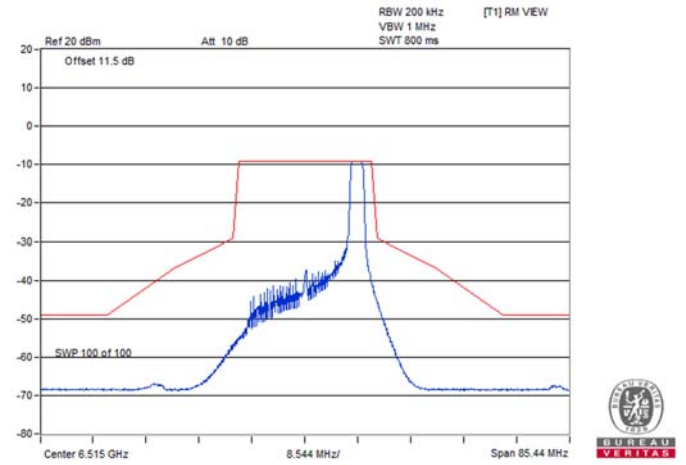
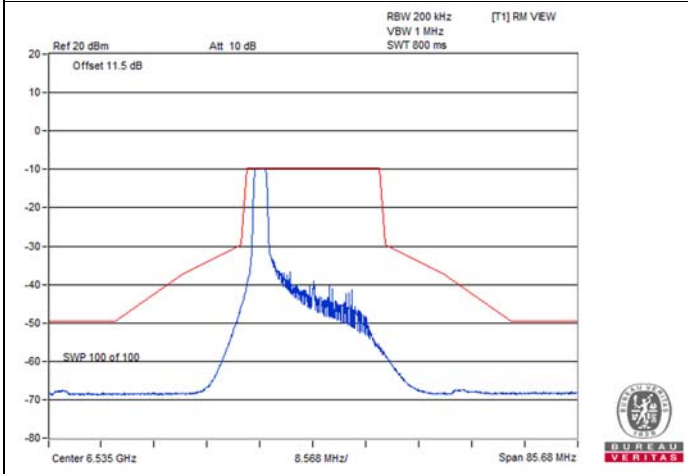
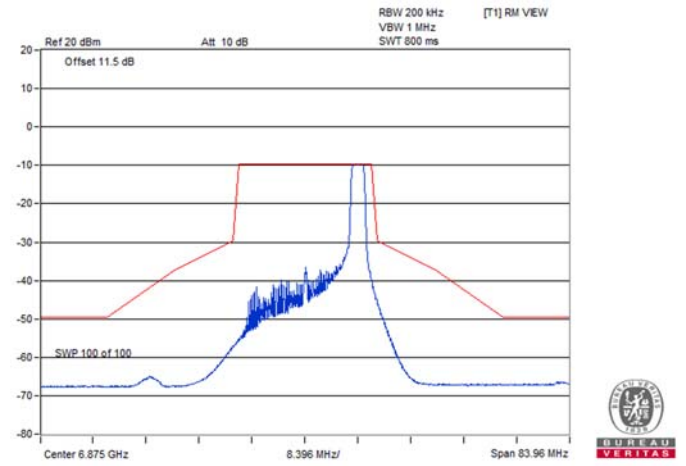


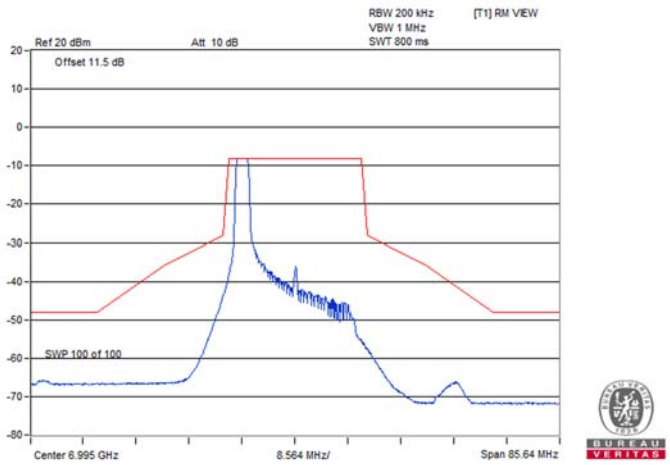
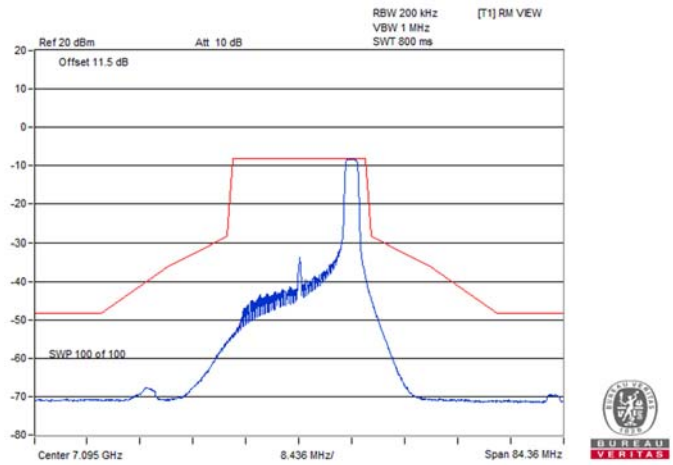
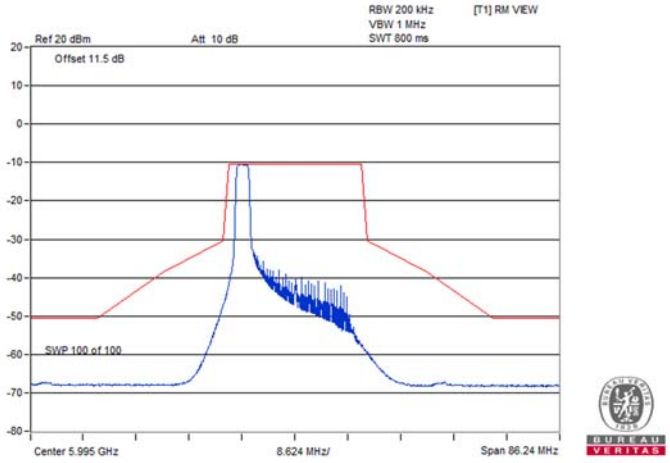
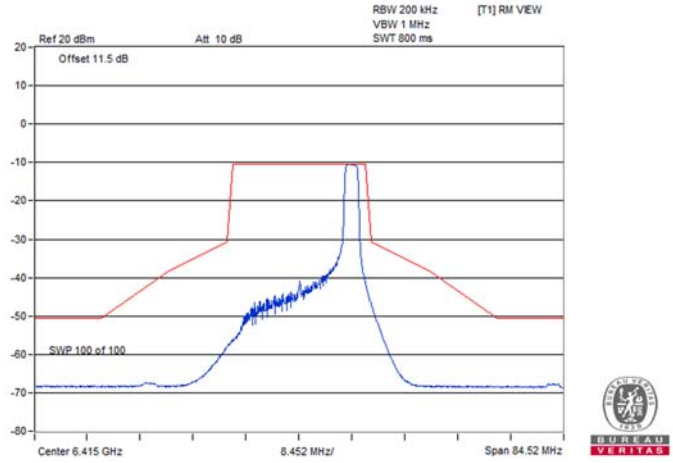
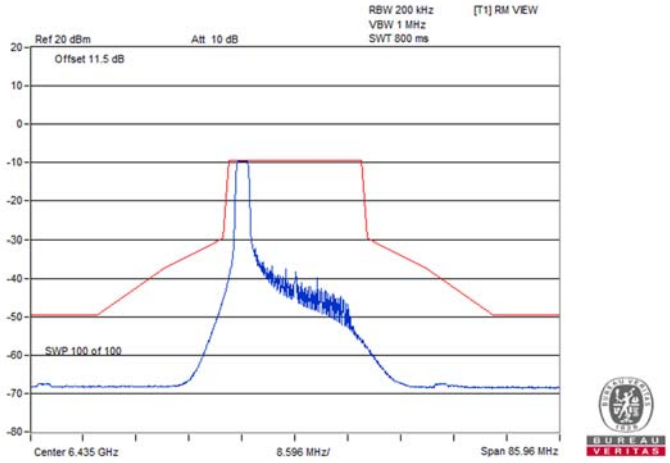
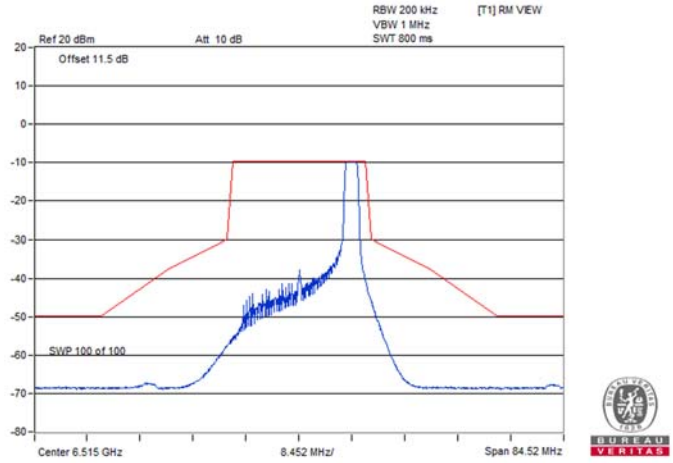
802.11ax (HE160) / Chain 1 : CH 175

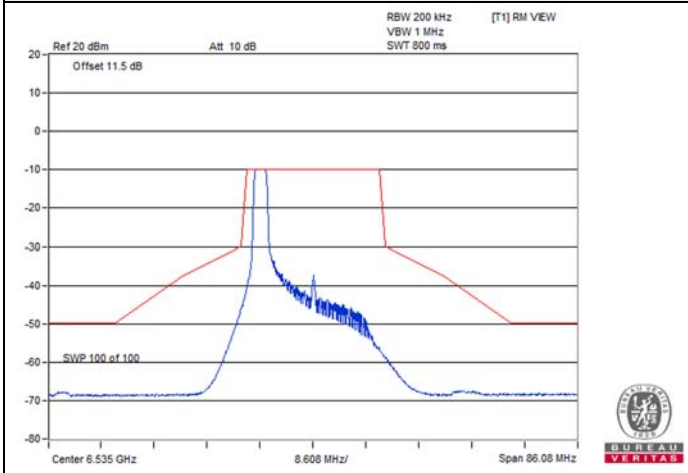
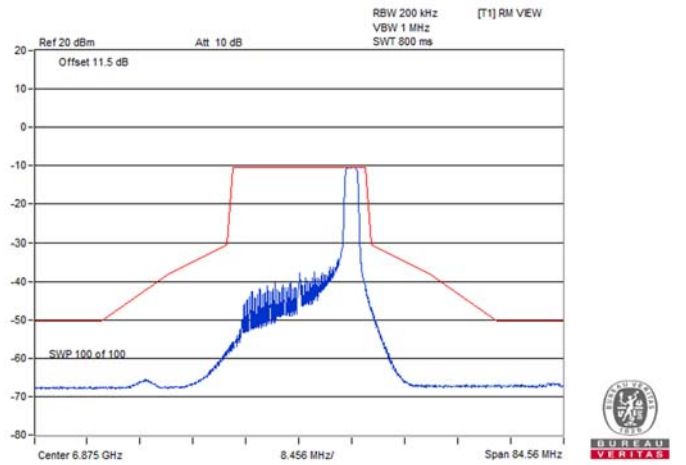
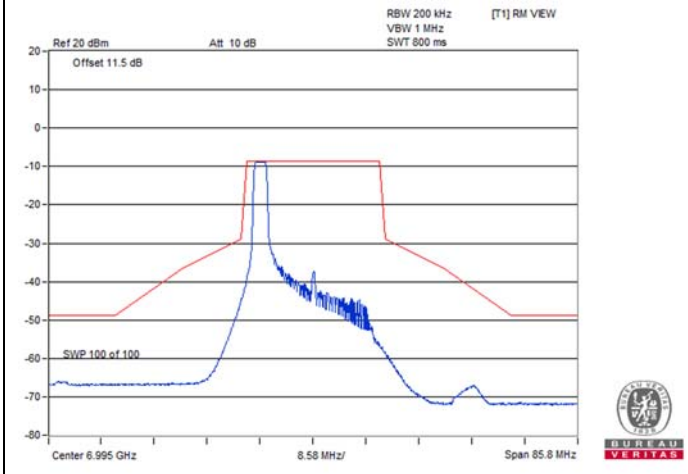
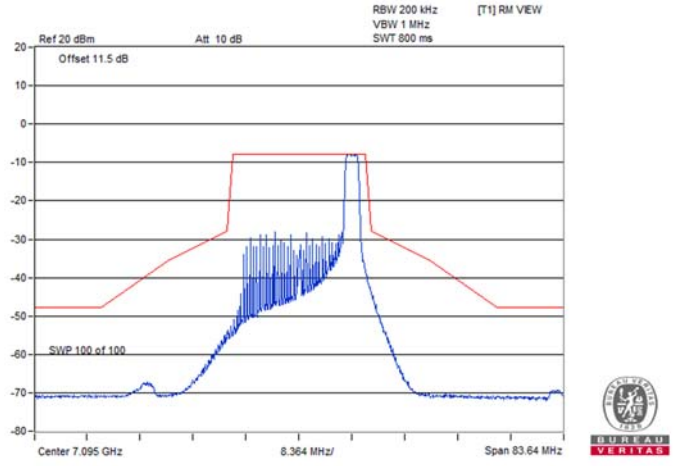


802.11ax (HE160) / Chain 1 : CH 207

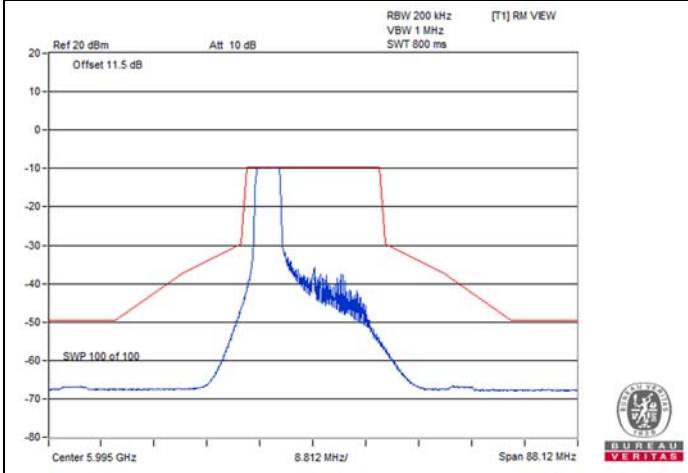
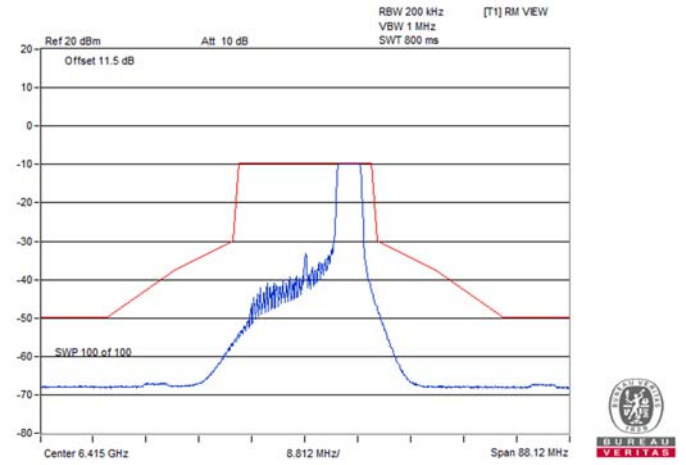
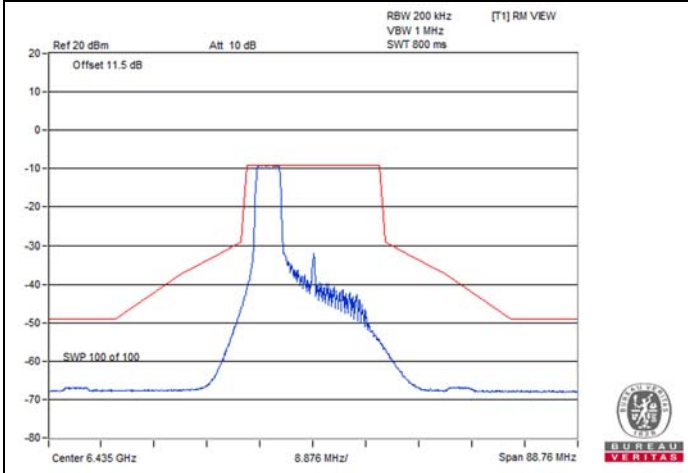
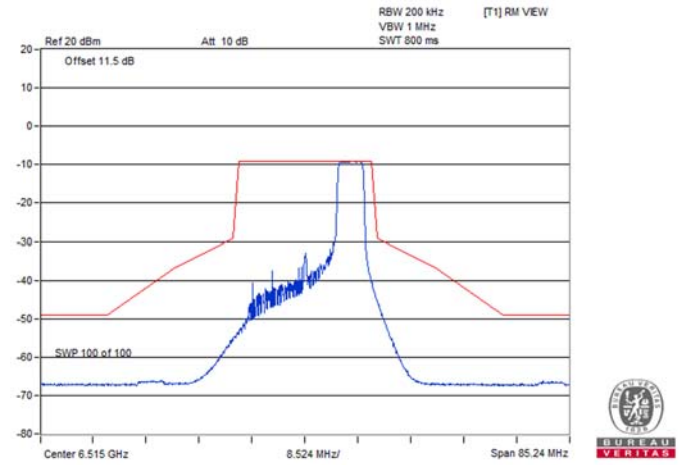
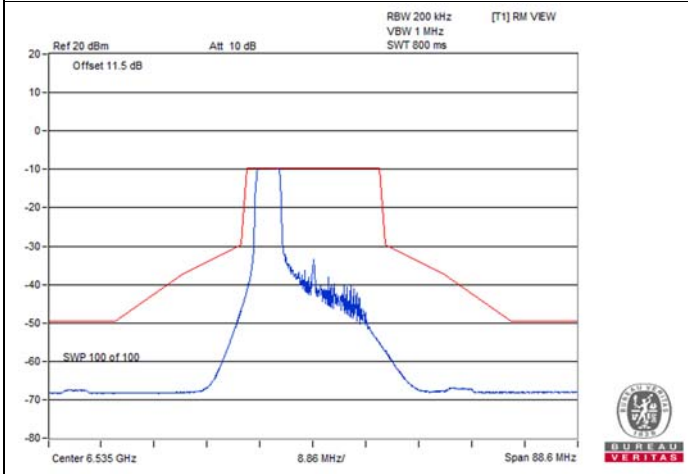
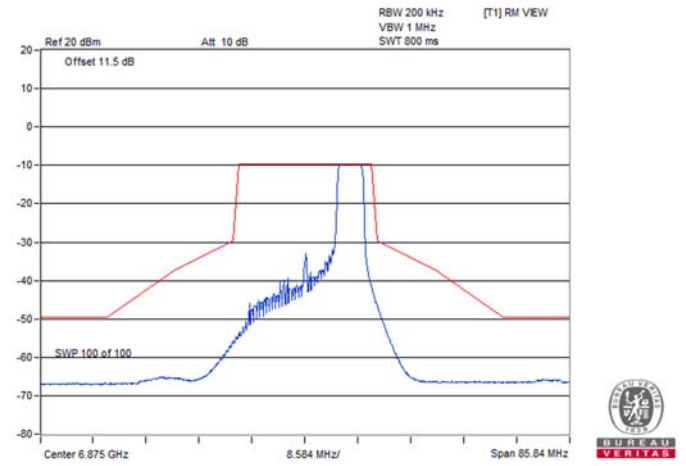
802.11ax (HE20) 26-tone RU

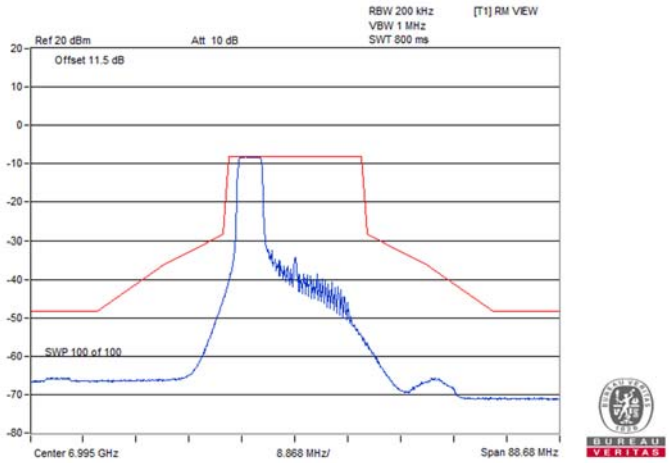
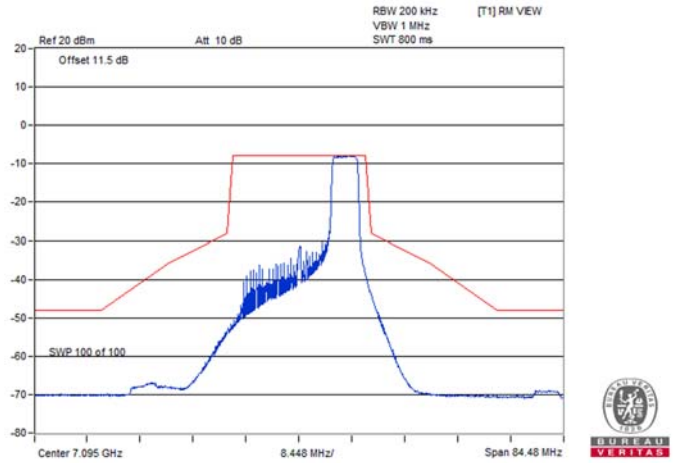
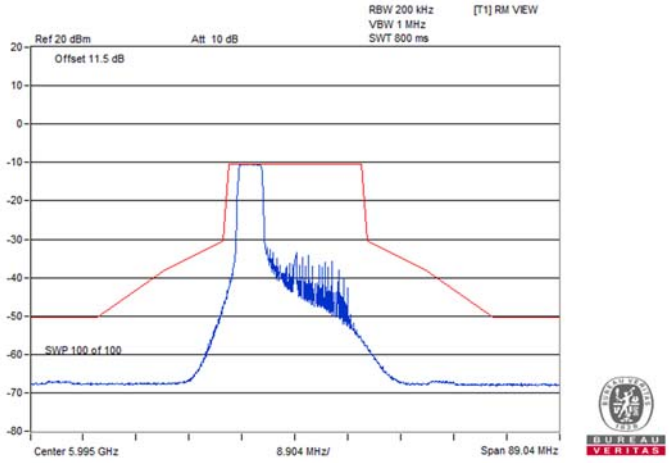
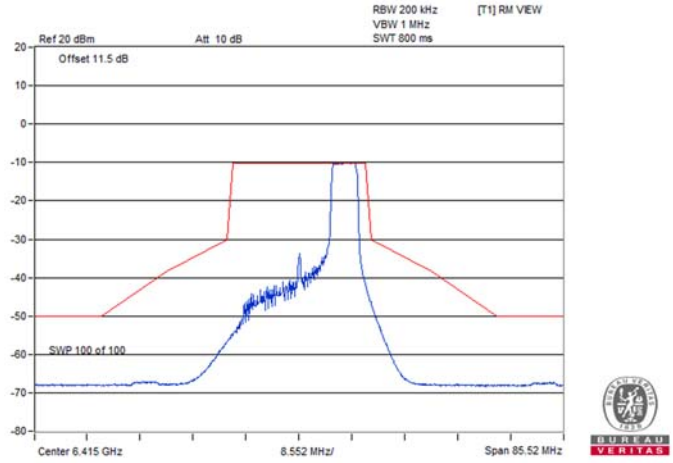
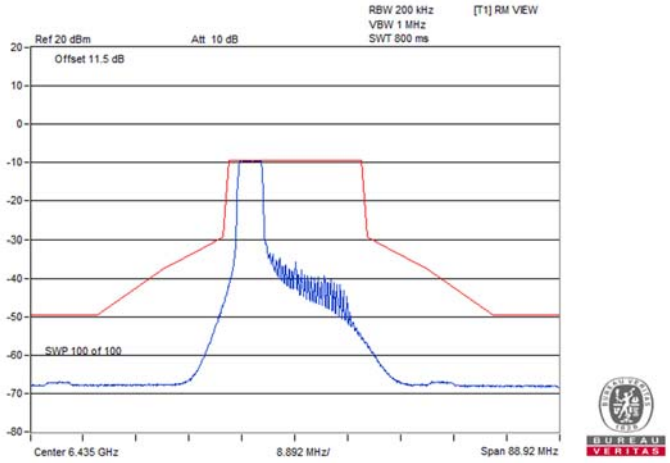
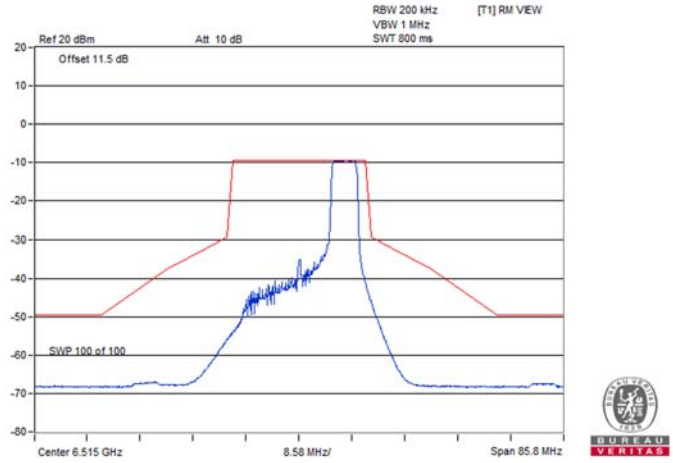
Spectrum Plot	
	
802.11ax (HE20) 26-tone RU / Chain 0 : CH 9	802.11ax (HE20) 26-tone RU / Chain 0 : CH 93
	
802.11ax (HE20) 26-tone RU / Chain 0 : CH 97	802.11ax (HE20) 26-tone RU / Chain 0 : CH 113
	
802.11ax (HE20) 26-tone RU / Chain 0 : CH 117	802.11ax (HE20) 26-tone RU / Chain 0 : CH 185

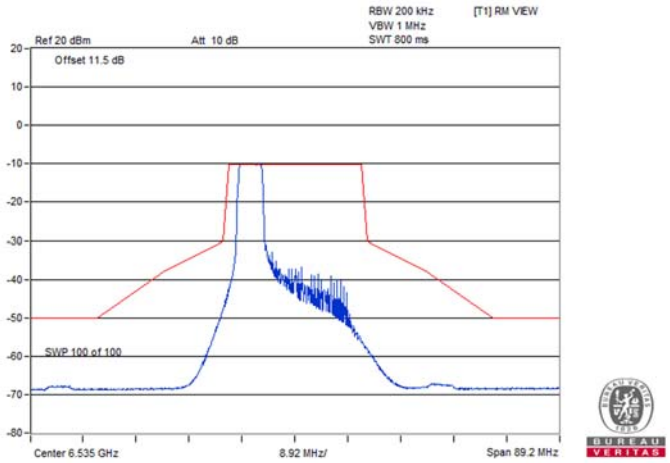
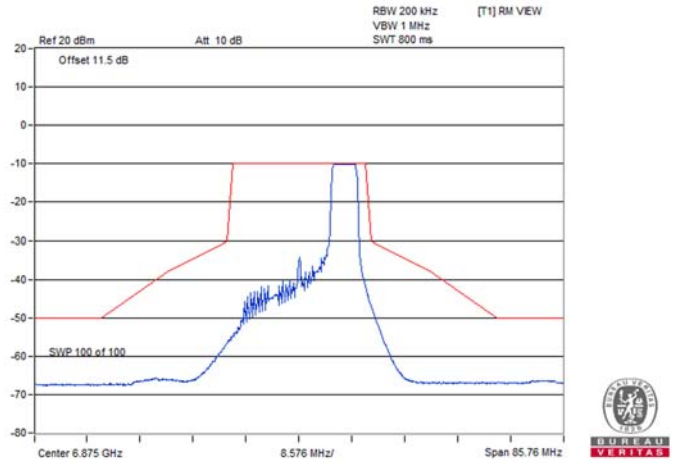
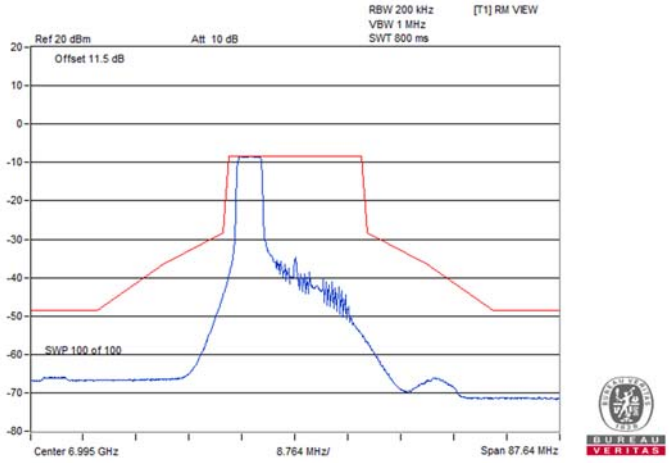
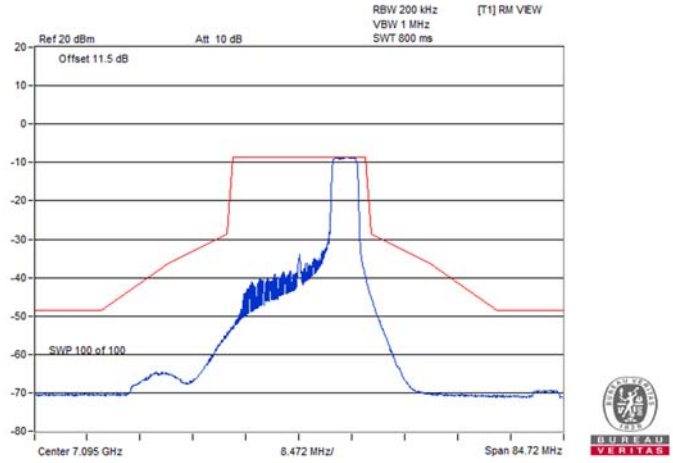
Spectrum Plot	
	
802.11ax (HE20) 26-tone RU / Chain 0 : CH 209	802.11ax (HE20) 26-tone RU / Chain 0 : CH 229
	
802.11ax (HE20) 26-tone RU / Chain 1 : CH 9	802.11ax (HE20) 26-tone RU / Chain 1 : CH 93
	
802.11ax (HE20) 26-tone RU / Chain 1 : CH 97	802.11ax (HE20) 26-tone RU / Chain 1 : CH 113

Spectrum Plot	
	
802.11ax (HE20) 26-tone RU / Chain 1 : CH 117	802.11ax (HE20) 26-tone RU / Chain 1 : CH 185
	
802.11ax (HE20) 26-tone RU / Chain 1 : CH 209	802.11ax (HE20) 26-tone RU / Chain 1 : CH 229

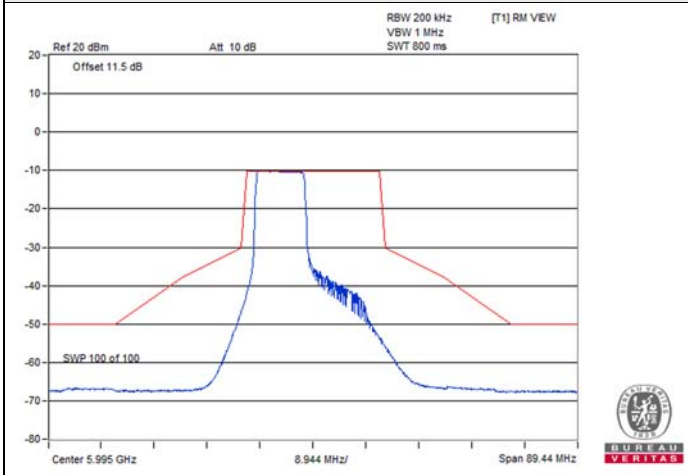
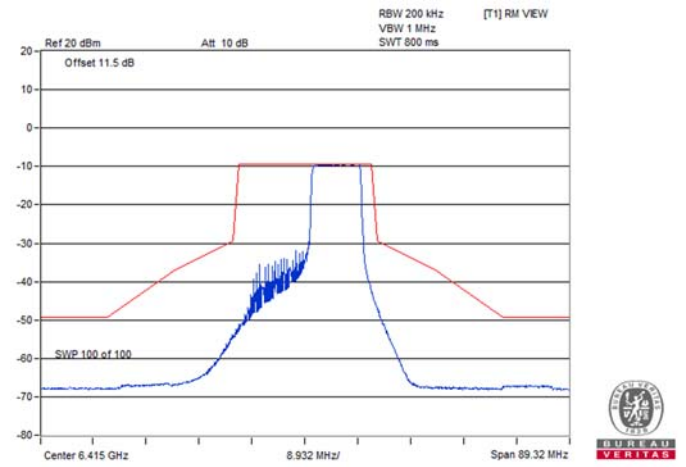
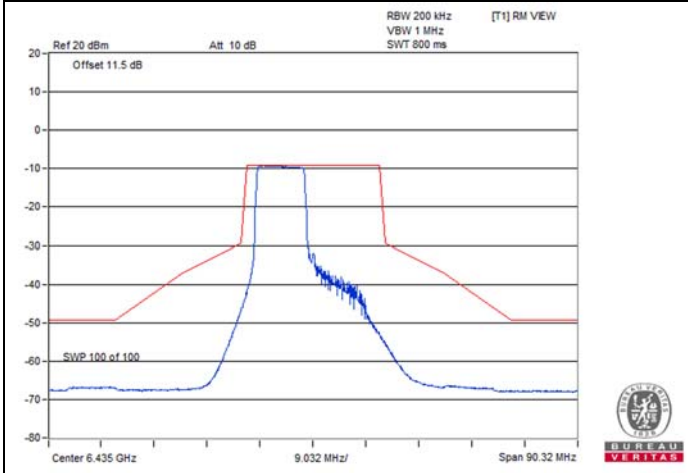
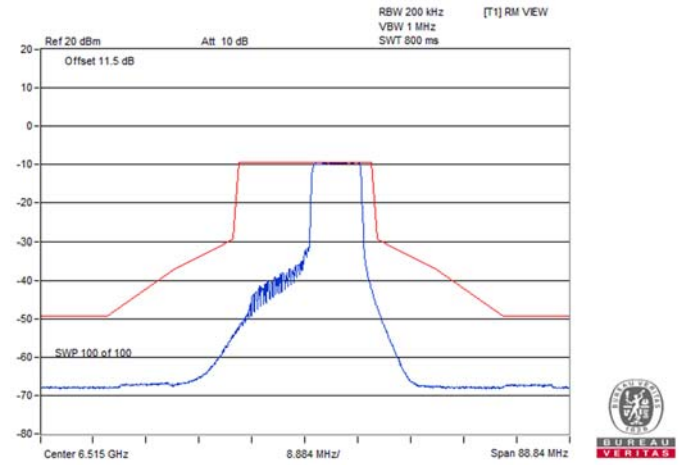
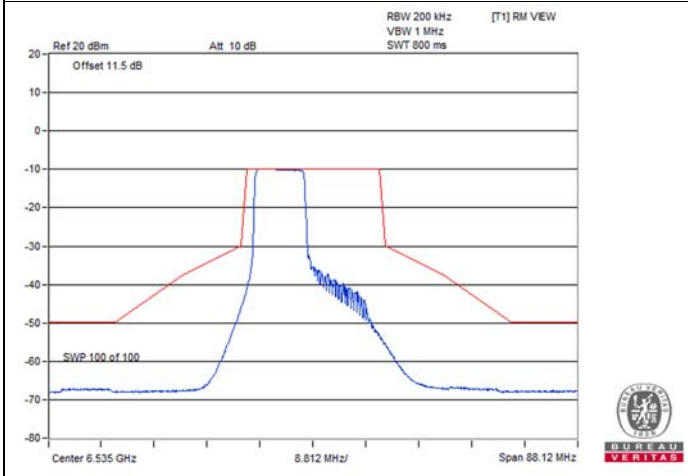
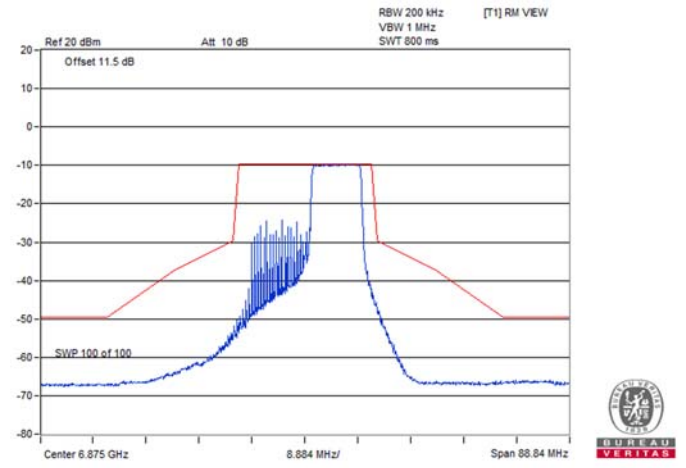
802.11ax (HE20) 52-tone RU

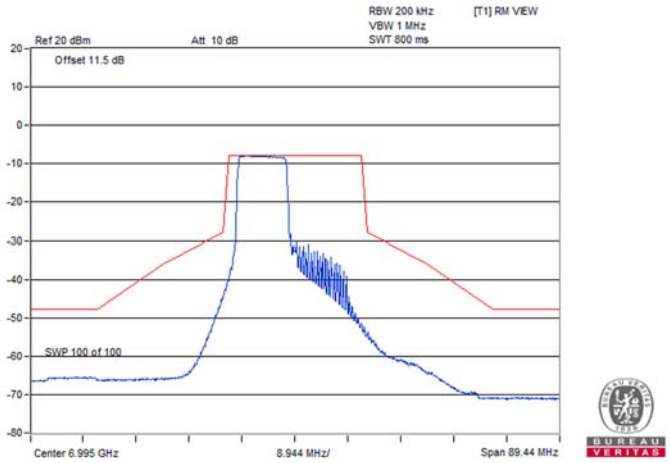
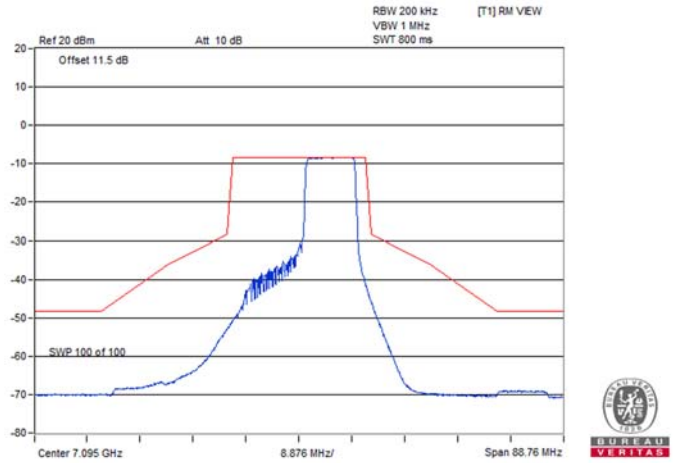
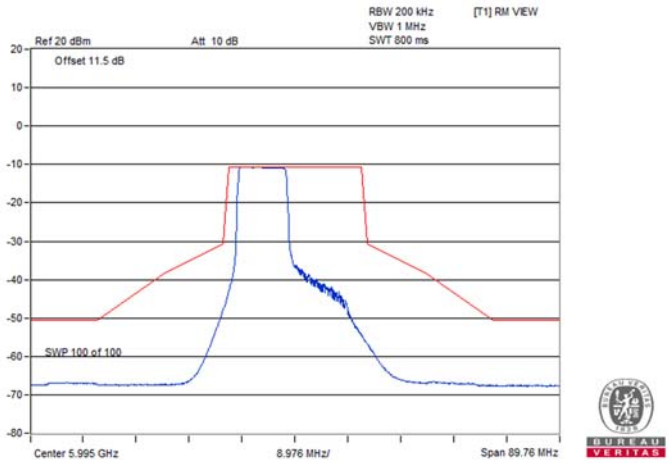
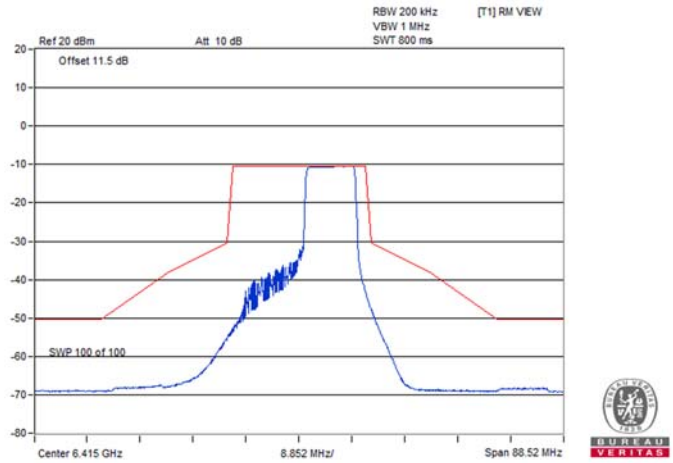
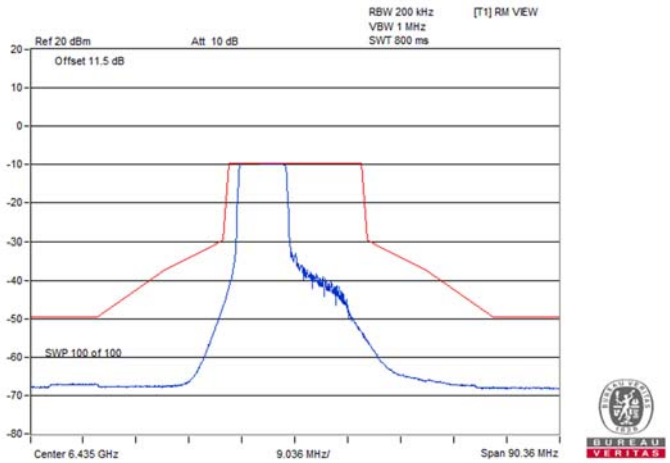
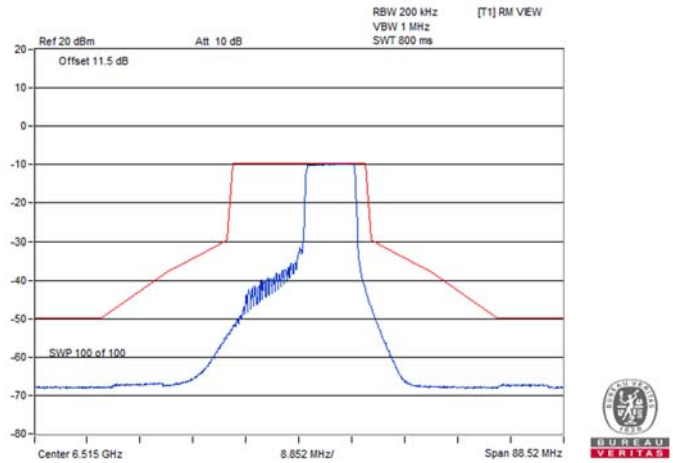
Spectrum Plot	
	
802.11ax (HE20) 52-tone RU / Chain 0 : CH 9	802.11ax (HE20) 52-tone RU / Chain 0 : CH 93
	
802.11ax (HE20) 52-tone RU / Chain 0 : CH 97	802.11ax (HE20) 52-tone RU / Chain 0 : CH 113
	
802.11ax (HE20) 52-tone RU / Chain 0 : CH 117	802.11ax (HE20) 52-tone RU / Chain 0 : CH 185

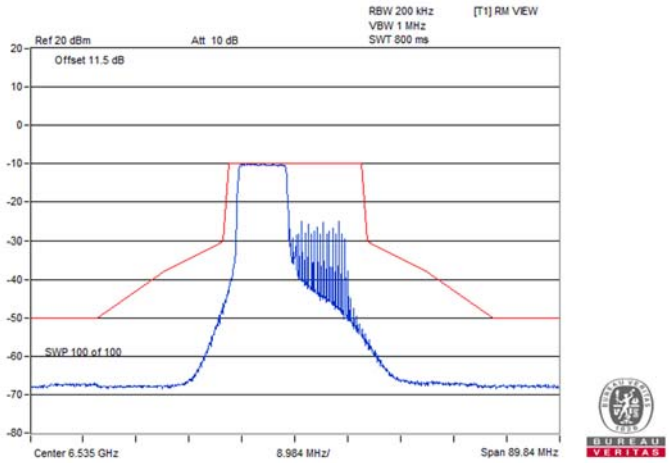
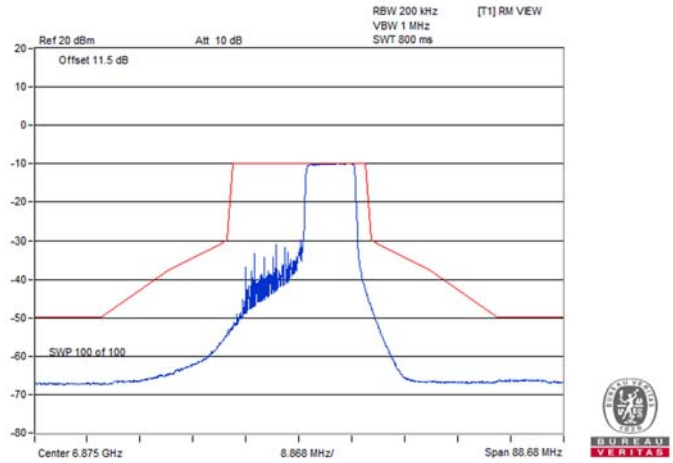
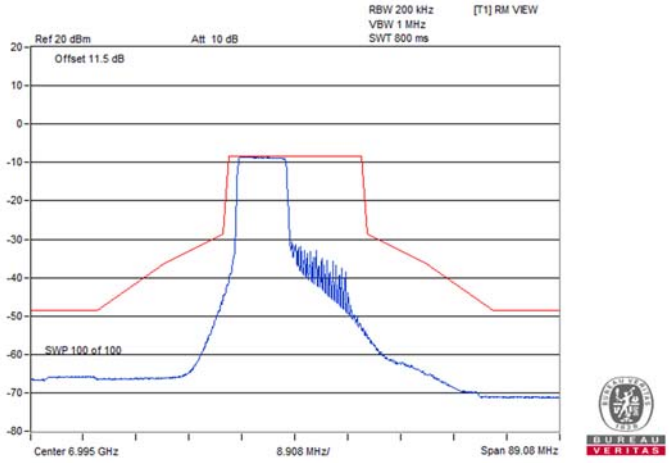
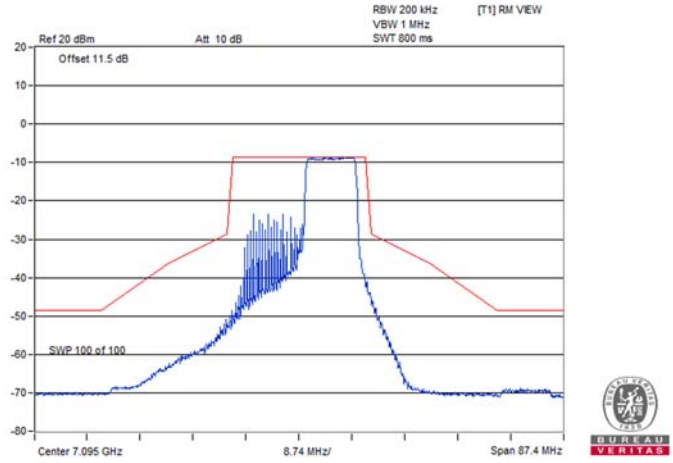
Spectrum Plot	
	
802.11ax (HE20) 52-tone RU / Chain 0 : CH 209	802.11ax (HE20) 52-tone RU / Chain 0 : CH 229
	
802.11ax (HE20) 52-tone RU / Chain 1 : CH 9	802.11ax (HE20) 52-tone RU / Chain 1 : CH 93
	
802.11ax (HE20) 52-tone RU / Chain 1 : CH 97	802.11ax (HE20) 52-tone RU / Chain 1 : CH 113

Spectrum Plot	
	
802.11ax (HE20) 52-tone RU / Chain 1 : CH 117	802.11ax (HE20) 52-tone RU / Chain 1 : CH 185
	
802.11ax (HE20) 52-tone RU / Chain 1 : CH 209	802.11ax (HE20) 52-tone RU / Chain 1 : CH 229

802.11ax (HE20) 106-tone RU

Spectrum Plot	
	
802.11ax (HE20) 106-tone RU / Chain 0 : CH 9	802.11ax (HE20) 106-tone RU / Chain 0 : CH 93
	
802.11ax (HE20) 106-tone RU / Chain 0 : CH 97	802.11ax (HE20) 106-tone RU / Chain 0 : CH 113
	
802.11ax (HE20) 106-tone RU / Chain 0 : CH 117	802.11ax (HE20) 106-tone RU / Chain 0 : CH 185

Spectrum Plot	
	
802.11ax (HE20) 106-tone RU / Chain 0 : CH 209	802.11ax (HE20) 106-tone RU / Chain 0 : CH 229
	
802.11ax (HE20) 106-tone RU / Chain 1 : CH 9	802.11ax (HE20) 106-tone RU / Chain 1 : CH 93
	
802.11ax (HE20) 106-tone RU / Chain 1 : CH 97	802.11ax (HE20) 106-tone RU / Chain 1 : CH 113

Spectrum Plot	
 802.11ax (HE20) 106-tone RU / Chain 1 : CH 117	 802.11ax (HE20) 106-tone RU / Chain 1 : CH 185
 802.11ax (HE20) 106-tone RU / Chain 1 : CH 209	 802.11ax (HE20) 106-tone RU / Chain 1 : CH 229

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	18.96	18.84	320	Pass
45	6175	18.96	18.96	320	Pass
93	6415	18.96	18.96	320	Pass
97	6435	18.96	18.96	320	Pass
105	6475	18.96	19.08	320	Pass
113	6515	18.96	18.96	320	Pass
117	6535	18.96	18.96	320	Pass
149	6695	18.96	18.96	320	Pass
181	6855	18.96	18.96	320	Pass
185	6875	18.96	18.96	320	Pass
209	6995	18.96	18.96	320	Pass
229	7095	18.96	18.96	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
11	6005	38.16	38.16	320	Pass
43	6165	38.16	38.16	320	Pass
91	6405	38.16	38.16	320	Pass
99	6445	38.16	38.16	320	Pass
107	6485	38.16	38.16	320	Pass
115	6525	38.16	37.92	320	Pass
123	6565	38.16	38.16	320	Pass
155	6725	38.16	38.16	320	Pass
179	6845	38.16	38.16	320	Pass
187	6885	37.92	38.16	320	Pass
211	7005	37.92	37.92	320	Pass
227	7085	37.92	38.16	320	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
23	6065	78.24	78.24	320	Pass
39	6145	77.28	77.28	320	Pass
87	6385	77.28	77.28	320	Pass
103	6465	77.28	77.28	320	Pass
119	6545	77.28	77.28	320	Pass
151	6705	77.28	77.28	320	Pass
183	6865	77.28	77.76	320	Pass
199	6945	77.28	77.28	320	Pass
215	7025	77.28	77.28	320	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
47	6185	156.48	156.48	320	Pass
79	6345	156.48	156.48	320	Pass
111	6505	156.48	156.48	320	Pass
143	6665	156.48	156.48	320	Pass
175	6825	156.48	156.48	320	Pass
207	6985	156.48	156.48	320	Pass

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	18.84	18.96	320	Pass
93	6415	18.72	18.72	320	Pass
97	6435	18.84	18.96	320	Pass
113	6515	18.96	18.84	320	Pass
117	6535	18.96	18.96	320	Pass
185	6875	18.60	18.60	320	Pass
209	6995	18.60	18.84	320	Pass
229	7095	18.60	18.69	320	Pass

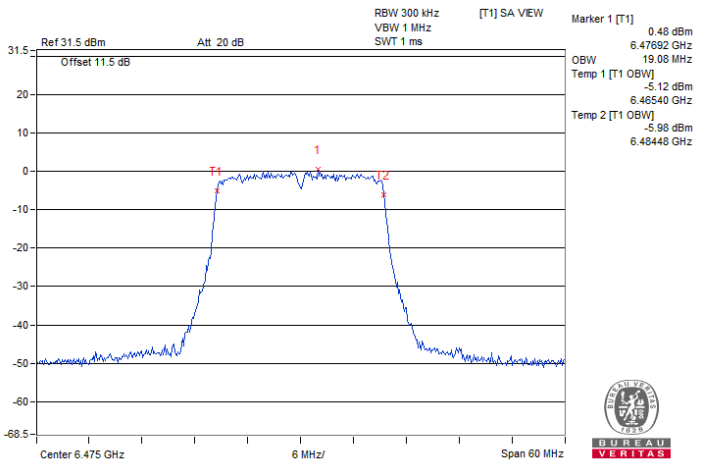
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	18.60	18.84	320	Pass
93	6415	18.72	18.48	320	Pass
97	6435	18.72	18.72	320	Pass
113	6515	18.48	18.48	320	Pass
117	6535	18.60	18.72	320	Pass
185	6875	18.48	18.48	320	Pass
209	6995	18.60	18.48	320	Pass
229	7095	18.36	18.36	320	Pass

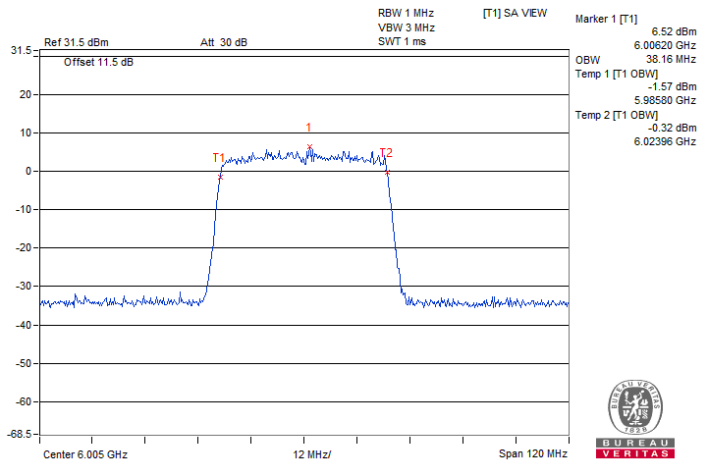
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		Maximum Limit (MHz)	Test Result
		Chain 0	Chain 1		
9	5995	18.48	18.36	320	Pass
93	6415	18.48	18.48	320	Pass
97	6435	18.36	18.60	320	Pass
113	6515	18.48	18.48	320	Pass
117	6535	18.36	18.36	320	Pass
185	6875	18.48	18.48	320	Pass
209	6995	18.48	18.24	320	Pass
229	7095	18.48	18.48	320	Pass

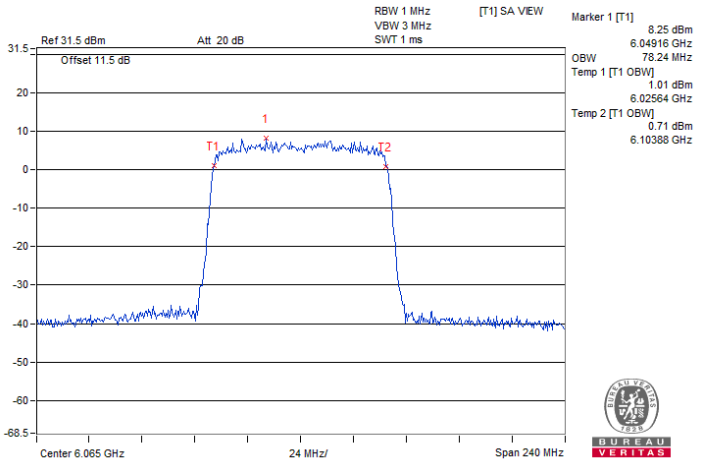
Spectrum Plot of Maximum Value



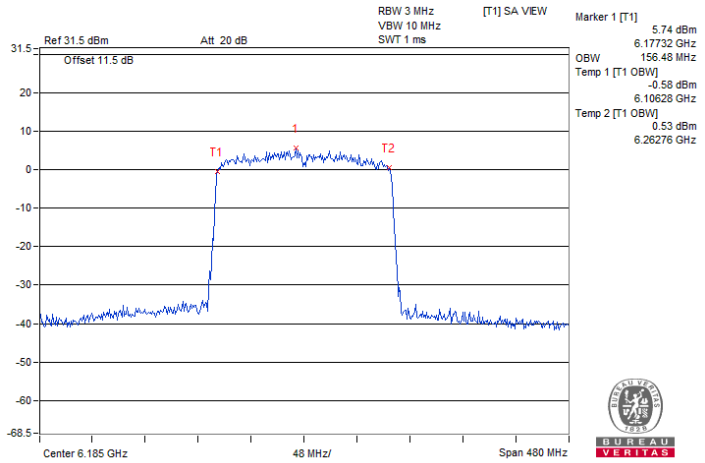
802.11ax (HE20) / Chain 1 : CH 105



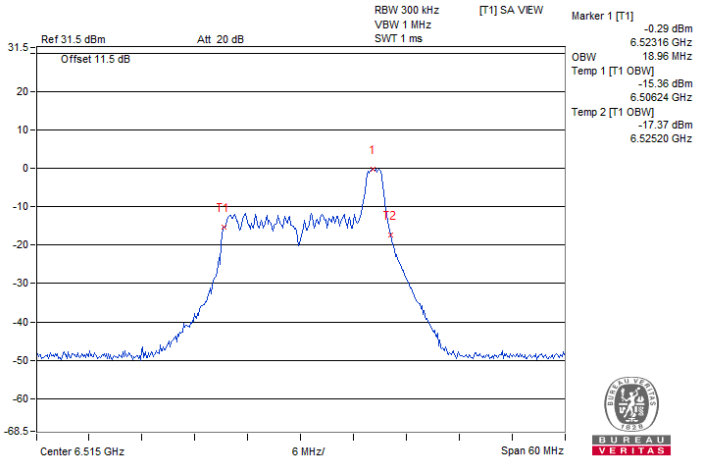
802.11ax (HE40) / Chain 0 : CH 11



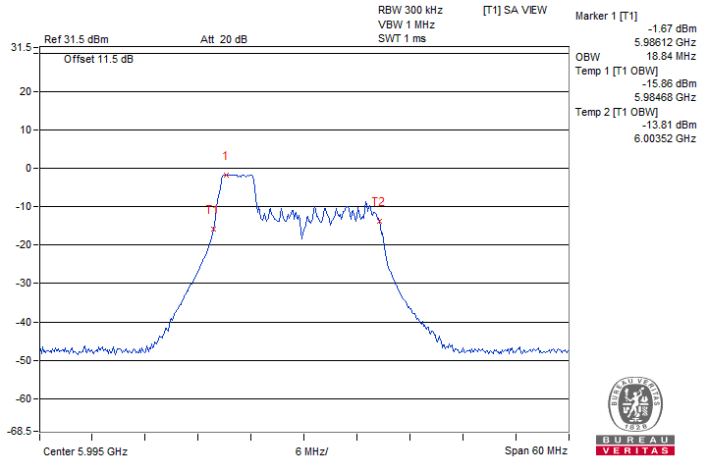
802.11ax (HE80) / Chain 0 : CH 23



802.11ax (HE160) / Chain 0 : CH 47

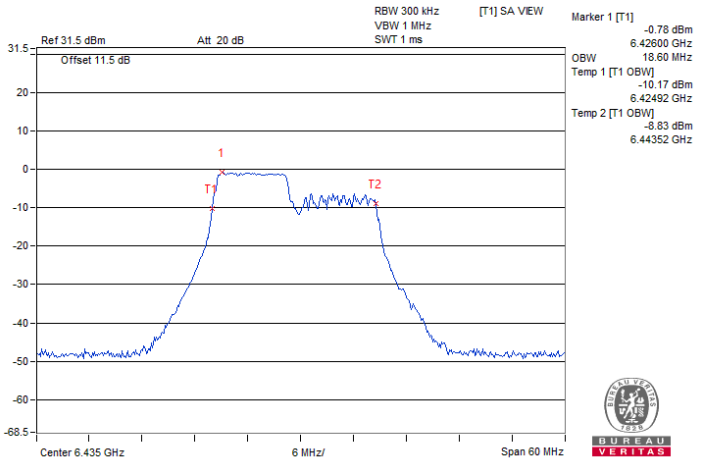


802.11ax (HE20) 26-tone RU / Chain 0 : CH 113



802.11ax (HE20) 52-tone RU / Chain 1 : CH 9

Spectrum Plot of Maximum Value



802.11ax (HE20) 106-tone RU / Chain 1 : CH 97

7.6 Frequency Stability

Input Power:	3.87Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

Frequency Stability Versus Temperature									
Operating Frequency: 5995 MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
50	3.87	5995.0021	Pass	5995.0008	Pass	5995.0032	Pass	5995.0021	Pass
40	3.87	5994.9864	Pass	5994.9876	Pass	5994.9856	Pass	5994.9856	Pass
30	3.87	5994.9814	Pass	5994.9802	Pass	5994.9767	Pass	5994.9782	Pass
20	3.87	5995.006	Pass	5995.008	Pass	5995.0064	Pass	5995.0069	Pass
10	3.87	5995.0256	Pass	5995.0253	Pass	5995.0246	Pass	5995.0267	Pass
0	3.87	5995.017	Pass	5995.0195	Pass	5995.0163	Pass	5995.017	Pass
-10	3.87	5994.9801	Pass	5994.9805	Pass	5994.9822	Pass	5994.9787	Pass
-20	3.87	5994.9805	Pass	5994.9817	Pass	5994.9811	Pass	5994.9785	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5995 MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	4.4505	5995.0006	Pass	5995.0017	Pass	5995.0017	Pass	5995.0016	Pass
	3.87	5995.006	Pass	5995.008	Pass	5995.0064	Pass	5995.0069	Pass
	3.2895	5995.0029	Pass	5995.0021	Pass	5995.0029	Pass	5995.0004	Pass

7.7 Contention-based Protocol

Environmental Conditions:	25°C, 60% RH	Tested By:	Stan Shih

Companion Device Information			
Product	**Brand**	**Model No.**	**Software/Firmware Version**
Wireless Router	Netgear	WAX630E	V10.3.2.4

For U-NII-5

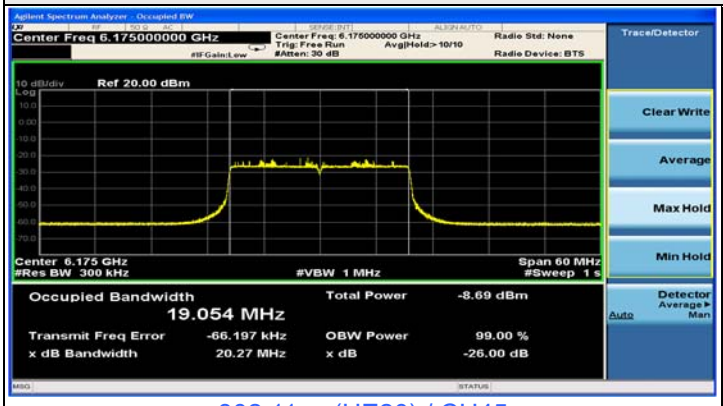
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	45	6175	6175	-70	-2.7	0	-67.3	-62	OFF
					-74	-2.7	0	-71.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
	160	47	6185	6110	-77	-2.7	0	-74.3	-62	OFF
					-81	-2.7	0	-78.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6185	-72	-2.7	0	-69.3	-62	OFF
					-75	-2.7	0	-72.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6260	-77	-2.7	0	-74.3	-62	OFF
					-80	-2.7	0	-77.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON

Notes:

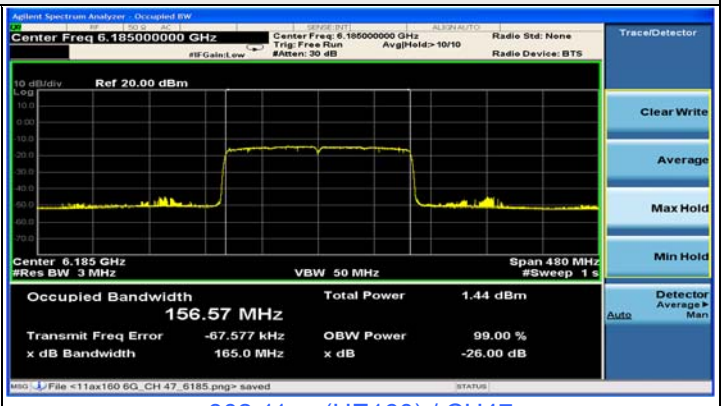
1. After investigation (consider antenna gain and path loss), the one representative port (Ant. 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability														
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6175	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6110	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6185	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6260	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

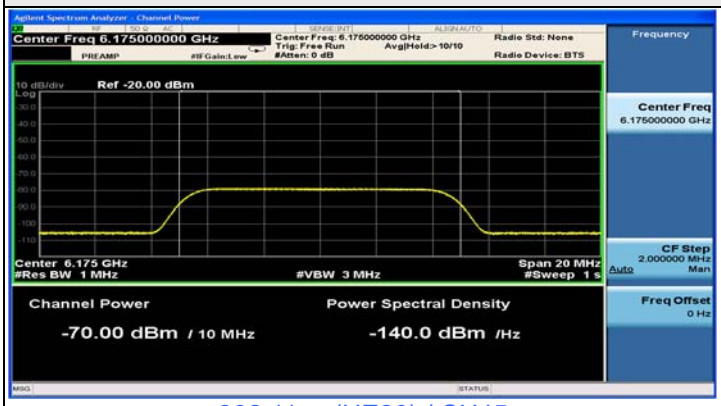
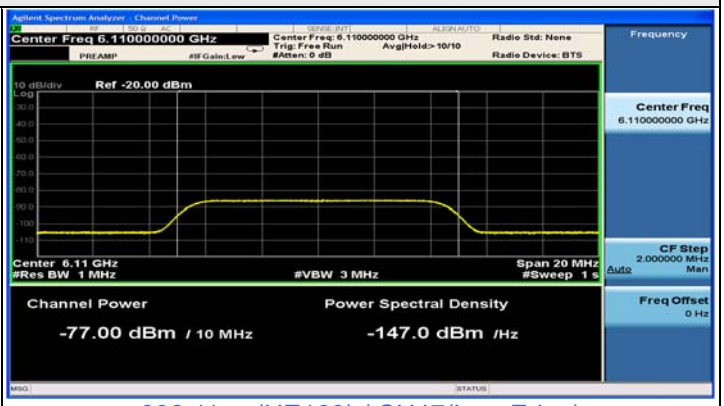
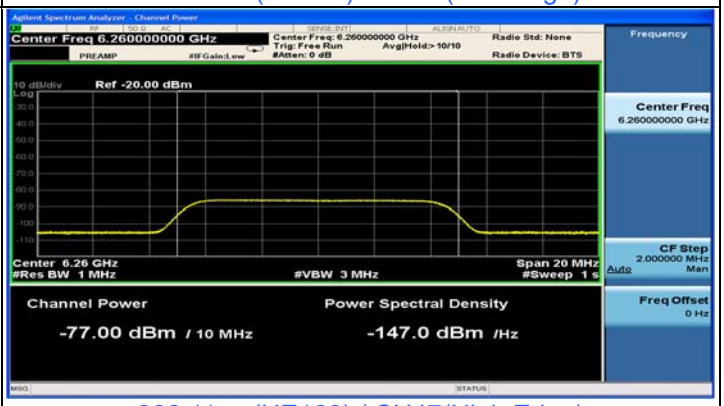
Plots of EUT Tx waveform

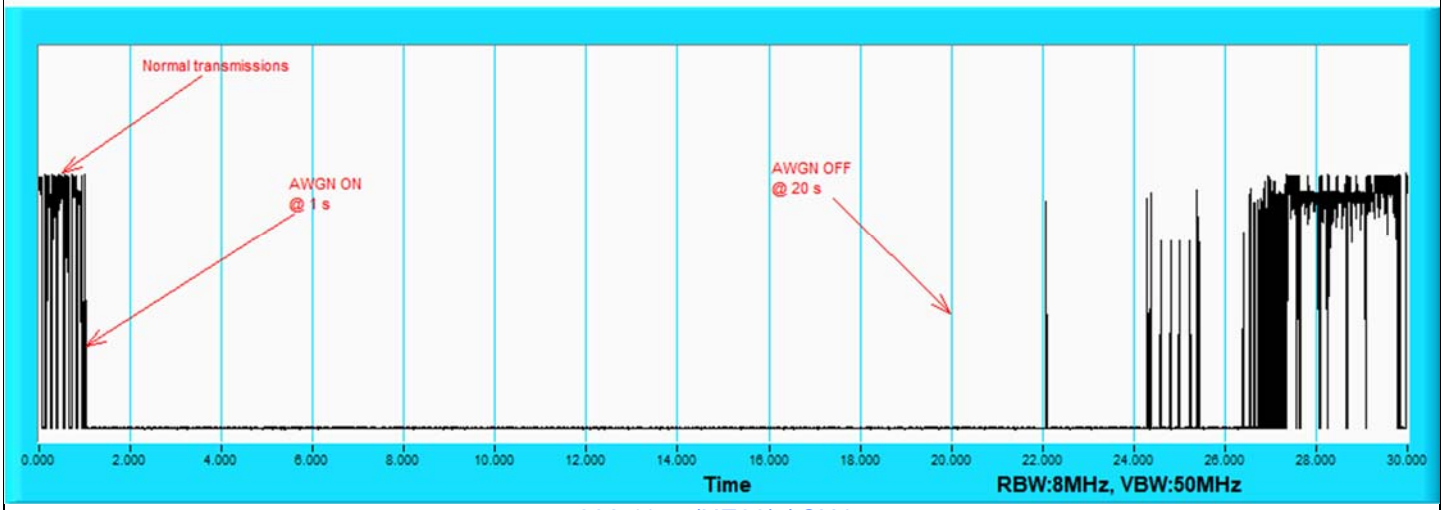


802.11ax (HE20) / CH45

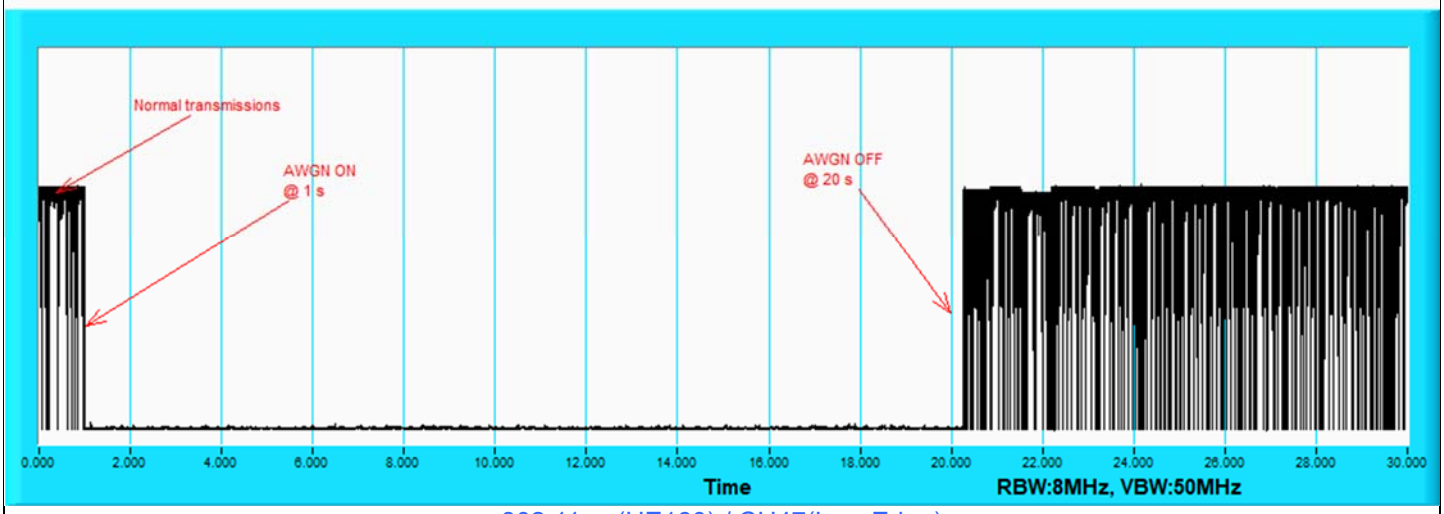


802.11ax (HE160) / CH47

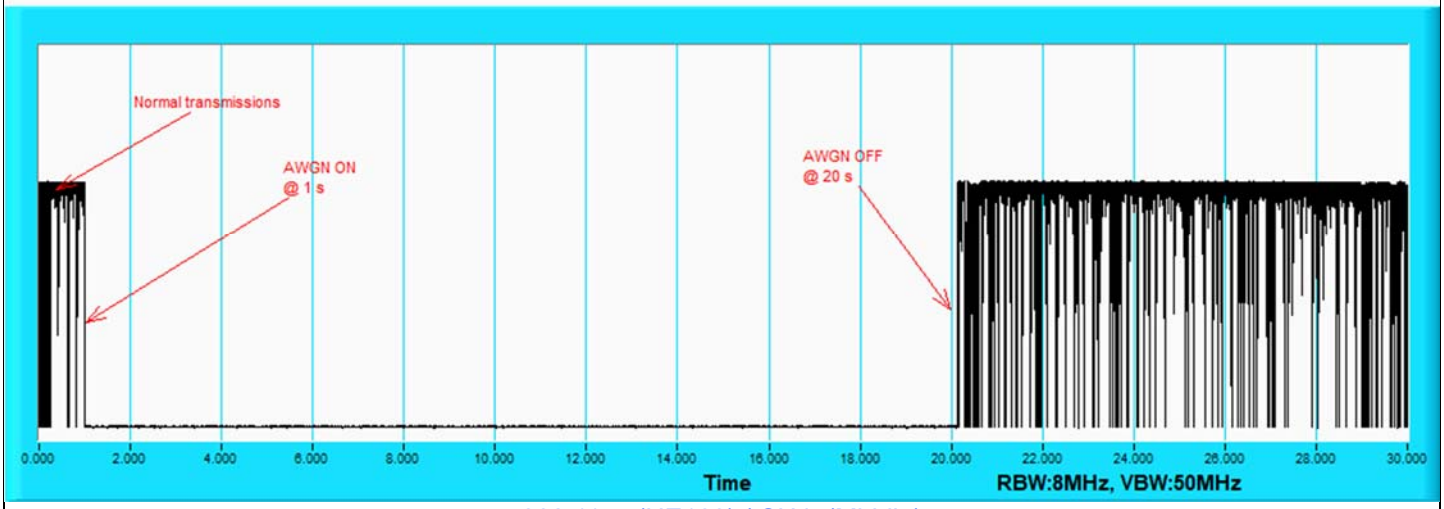
Plots of Injected signal (AWGN) level	
	
802.11ax (HE20) / CH45	802.11ax (HE160) / CH47(Low Edge)
	
802.11ax (HE160) / CH47(Middle)	802.11ax (HE160) / CH47(High Edge)

Plots of EUT ceased transmission in the time domain

802.11ax (HE20) / CH45

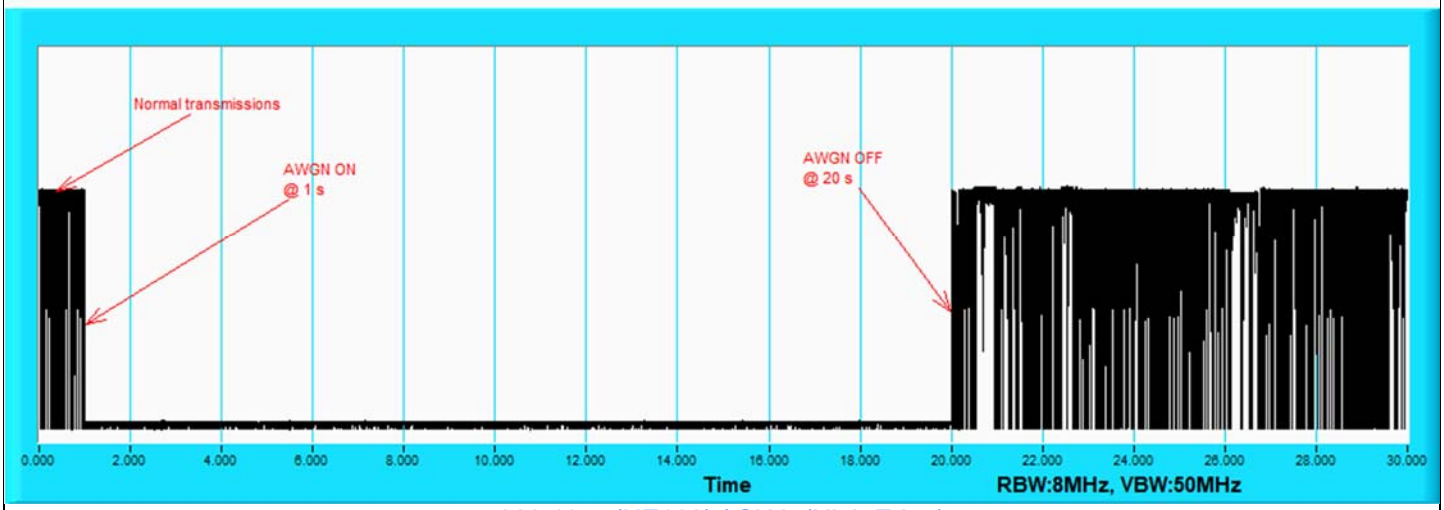
Plots of EUT ceased transmission in the time domain



802.11ax (HE160) / CH47(Low Edge)



802.11ax (HE160) / CH47(Middle)



802.11ax (HE160) / CH47(High Edge)

For U-NII-6

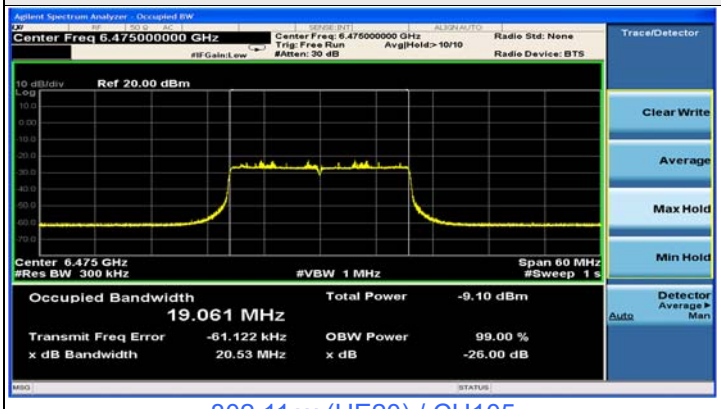
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	105	6475	6475	-82	-2.7	0	-79.3	-62	OFF
					-84	-2.7	0	-81.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
	160	111	6505	6430	-77	-2.7	0	-74.3	-62	OFF
					-79	-2.7	0	-76.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6505	-74	-2.7	0	-71.3	-62	OFF
					-75	-2.7	0	-72.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6580	-77	-2.7	0	-74.3	-62	OFF
					-79	-2.7	0	-76.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON

Notes:

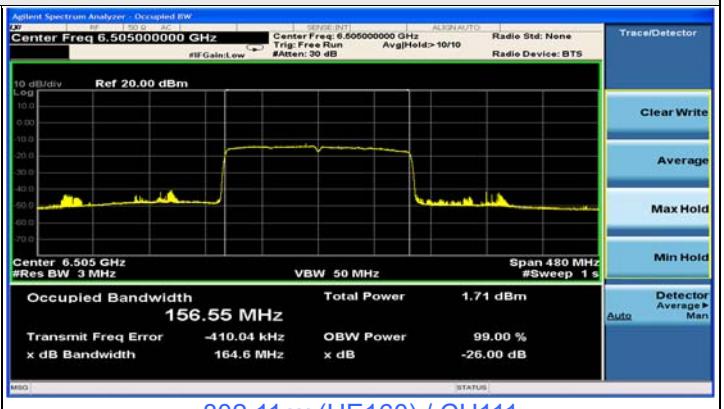
1. After investigation (consider antenna gain and path loss), the one representative port (Ant. 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability														
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6475	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6430	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6505	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6580	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

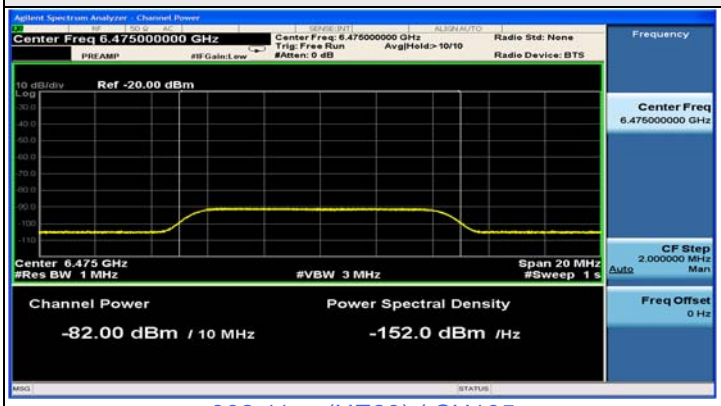
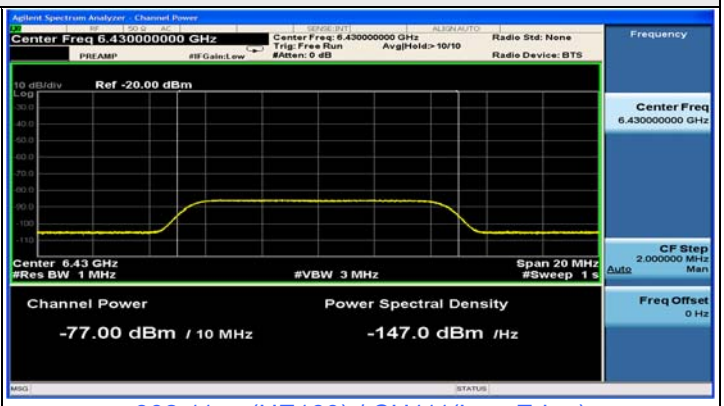
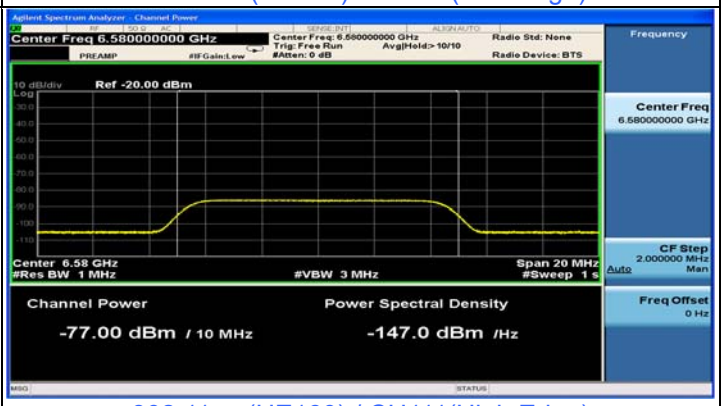
Plots of EUT Tx waveform

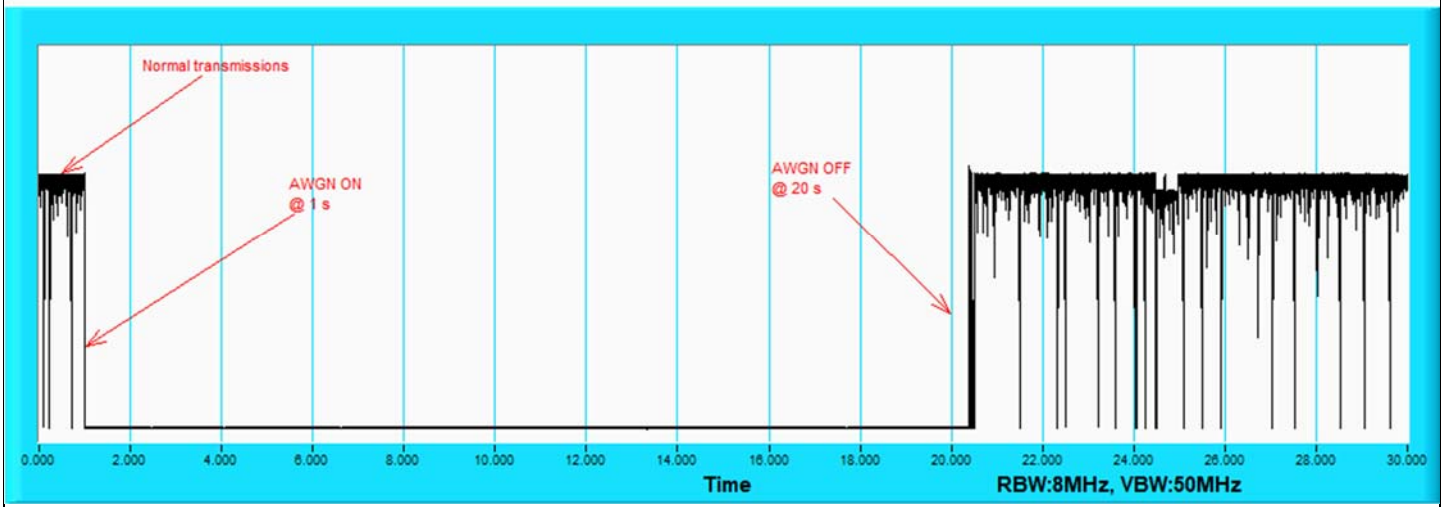


802.11ax (HE20) / CH105

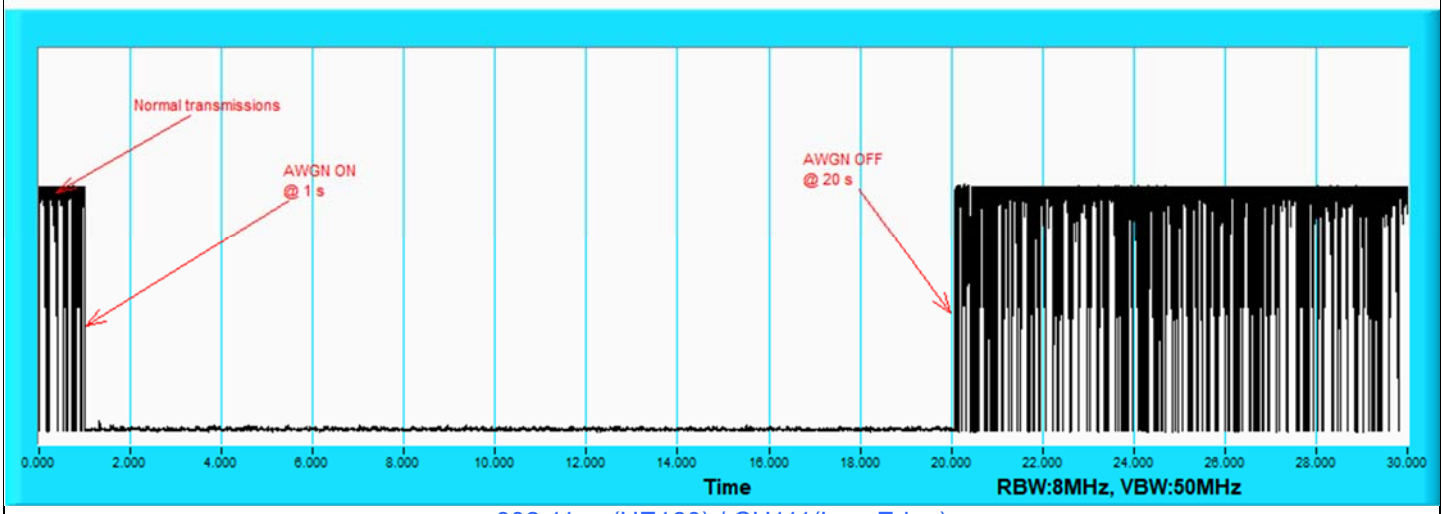


802.11ax (HE160) / CH111

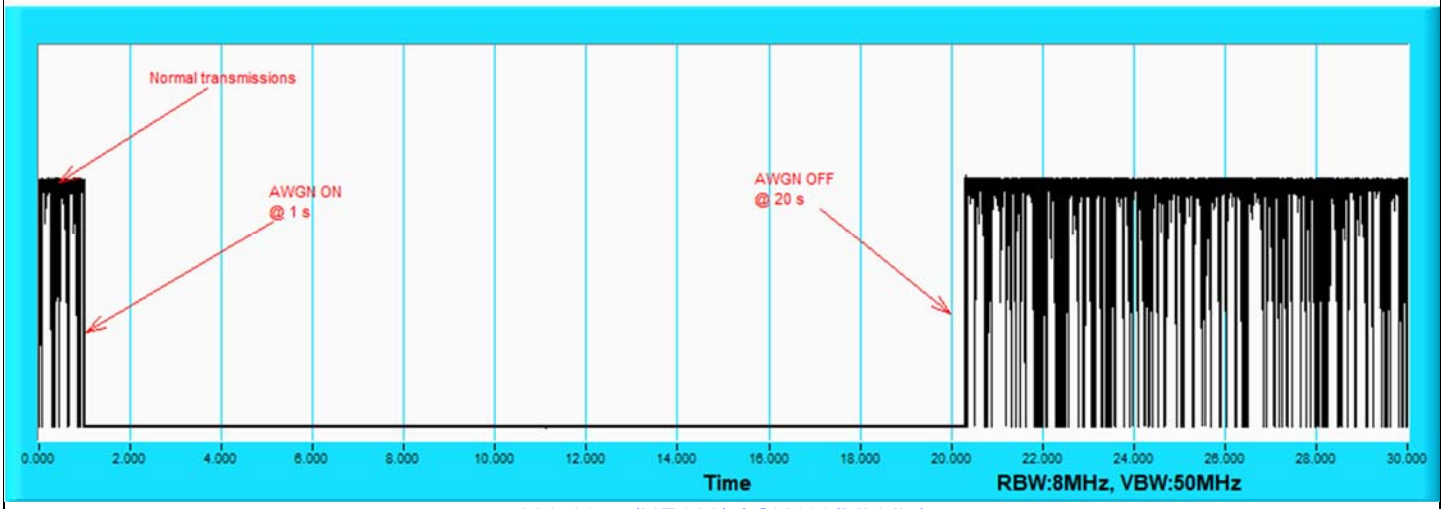
Plots of Injected signal (AWGN) level	
	
802.11ax (HE20) / CH105	802.11ax (HE160) / CH111(Low Edge)
	
802.11ax (HE160) / CH111(Middle)	802.11ax (HE160) / CH111(High Edge)

Plots of EUT ceased transmission in the time domain

802.11ax (HE20) / CH105

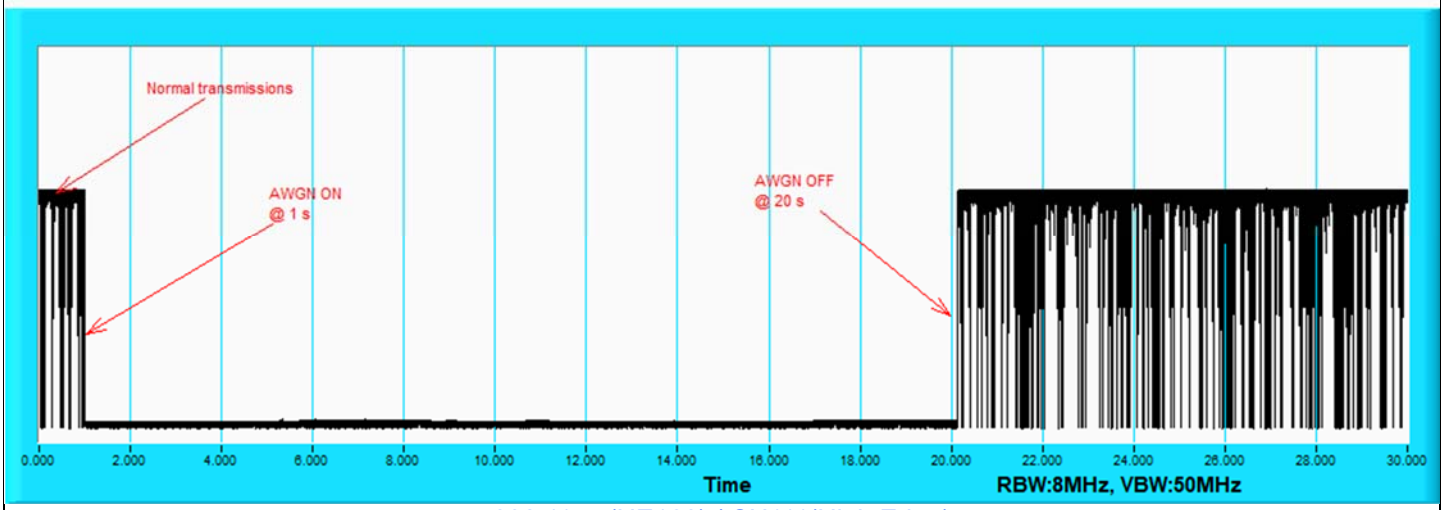
Plots of EUT ceased transmission in the time domain



802.11ax (HE160) / CH111(Low Edge)



802.11ax (HE160) / CH111(Middle)



802.11ax (HE160) / CH111(High Edge)

For U-NII-7

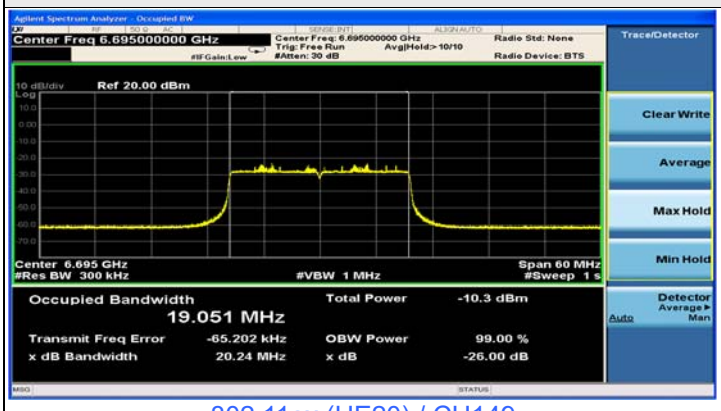
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	149	6695	6695	-70	-2.7	0	-67.3	-62	OFF
					-72	-2.7	0	-69.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
	160	143	6665	6590	-81	-2.7	0	-78.3	-62	OFF
					-83	-2.7	0	-80.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6665	-77	-2.7	0	-74.3	-62	OFF
					-79	-2.7	0	-76.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6740	-78	-2.7	0	-75.3	-62	OFF
					-83	-2.7	0	-80.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON

Notes:

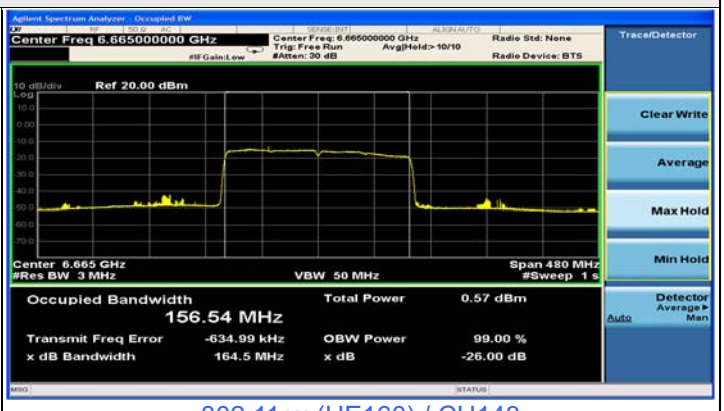
1. After investigation (consider antenna gain and path loss), the one representative port (Ant. 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability														
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6695	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6590	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6665	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6740	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

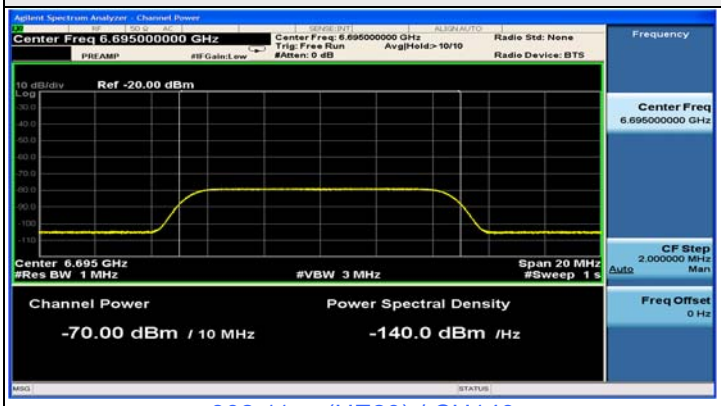
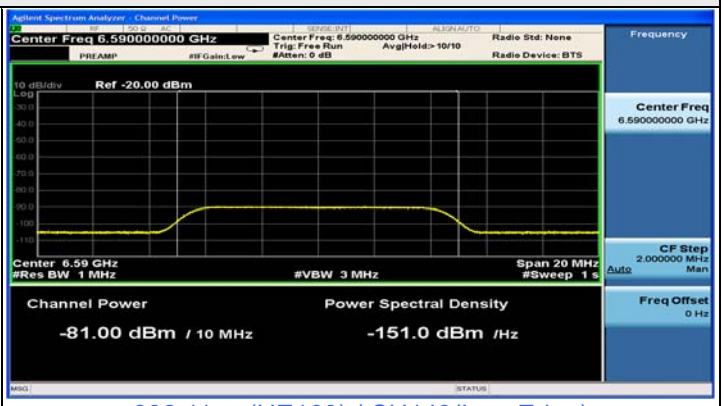
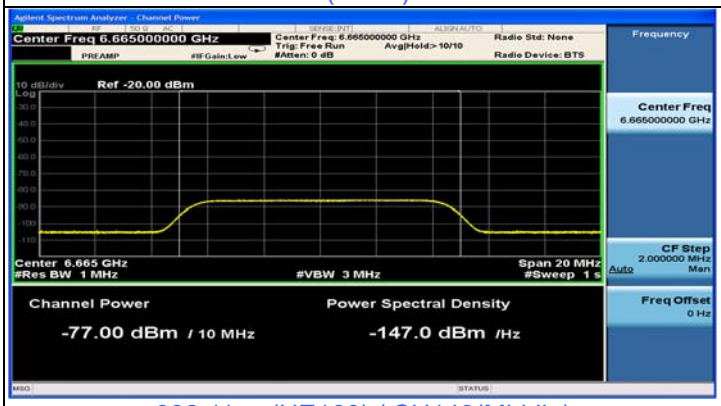
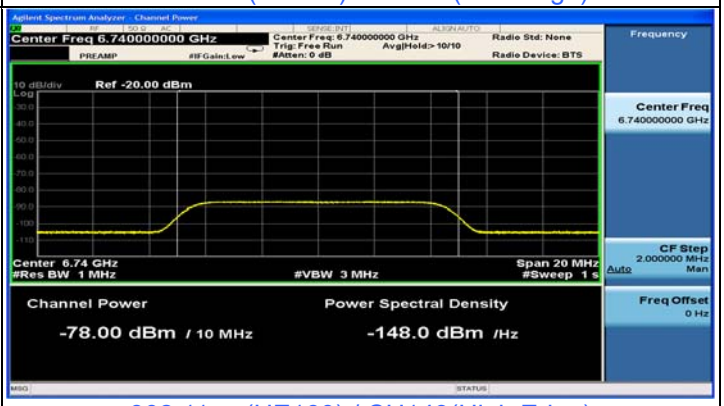
Plots of EUT Tx waveform

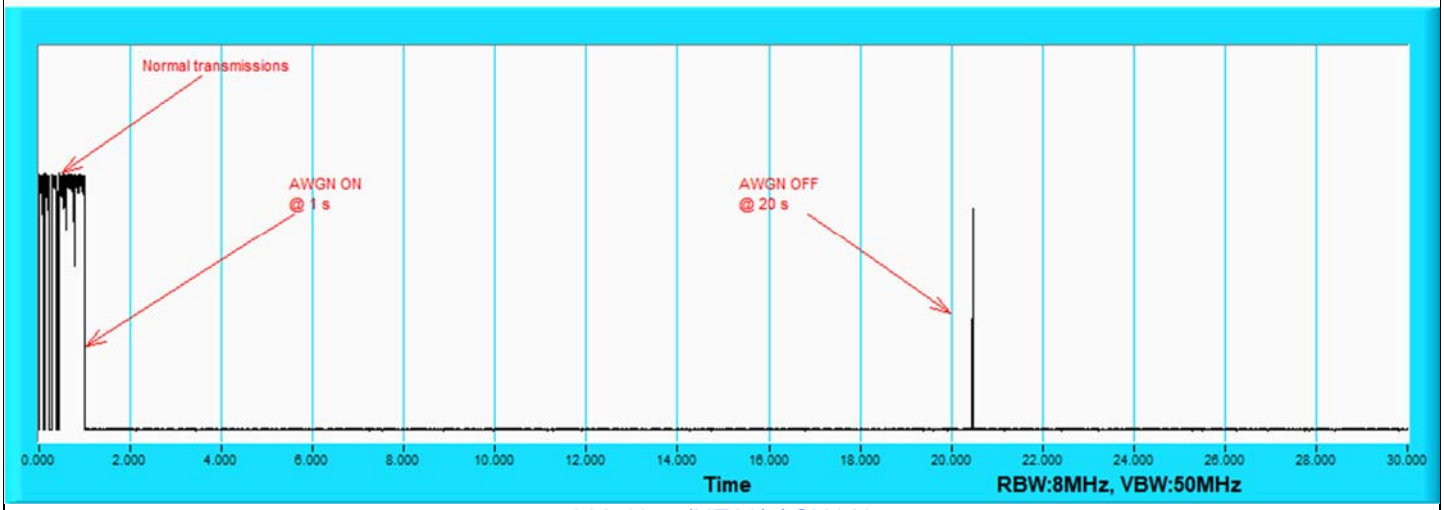


802.11ax (HE20) / CH149

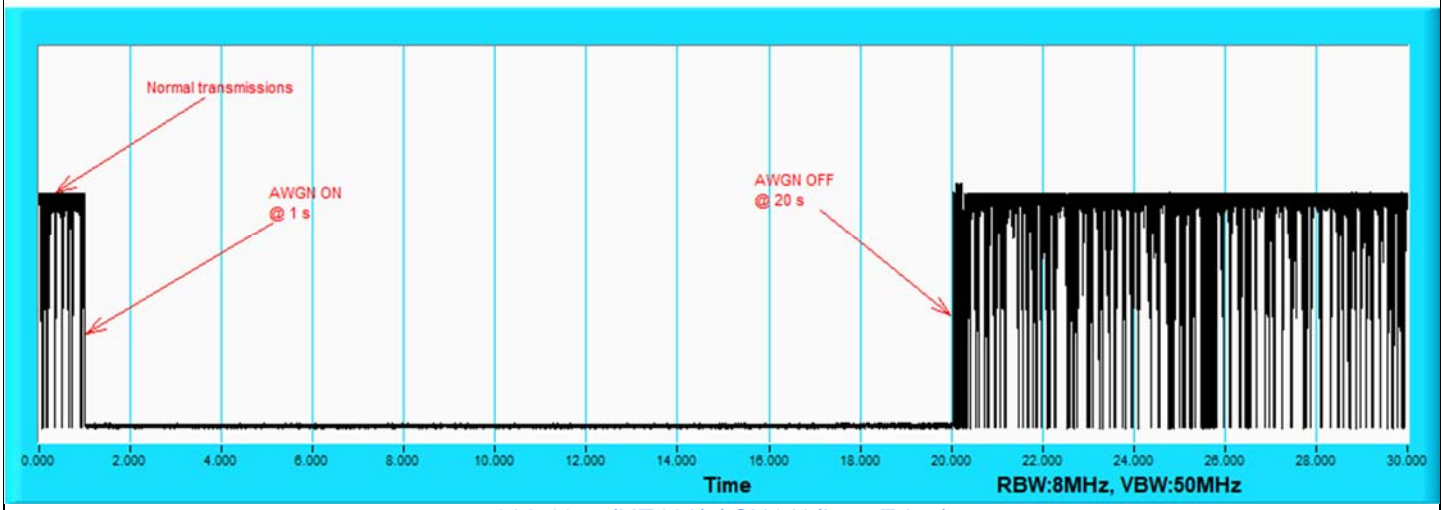


802.11ax (HE160) / CH143

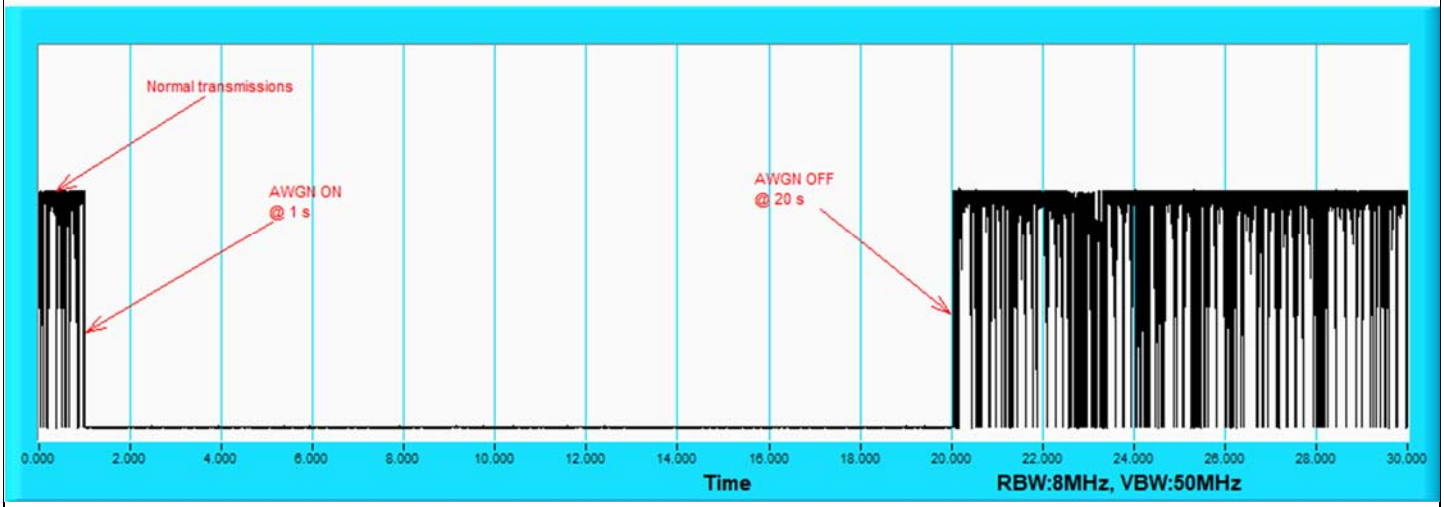
Plots of Injected signal (AWGN) level	
	
802.11ax (HE20) / CH149	802.11ax (HE160) / CH143(Low Edge)
	
802.11ax (HE160) / CH143(Middle)	802.11ax (HE160) / CH143(High Edge)

Plots of EUT ceased transmission in the time domain

802.11ax (HE20) / CH149

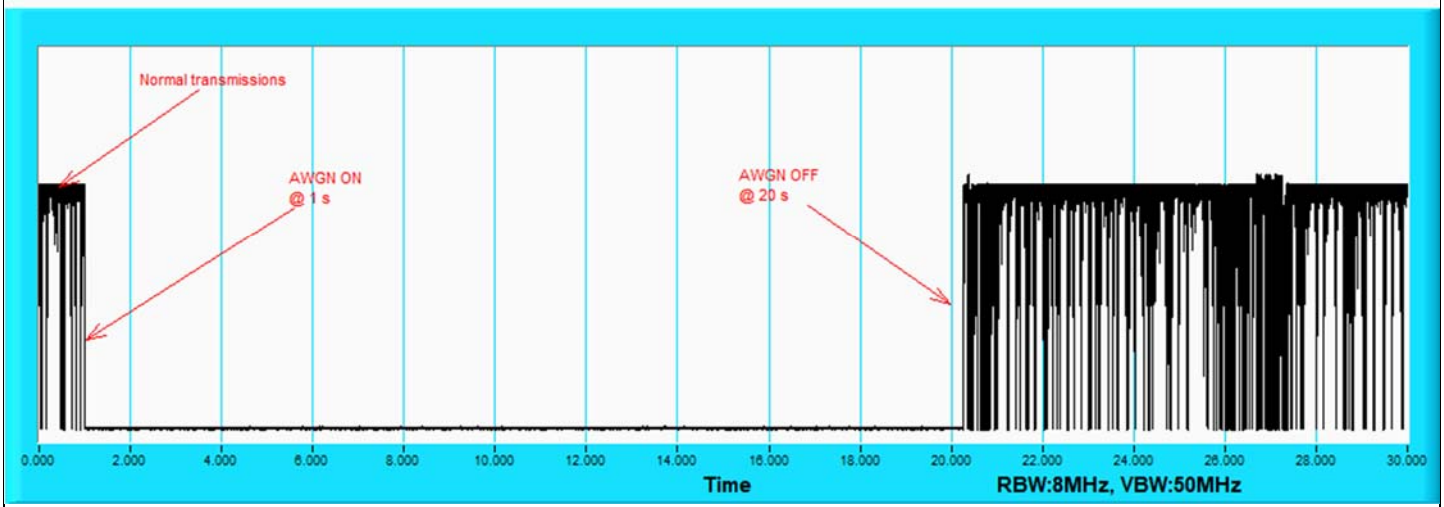
Plots of EUT ceased transmission in the time domain



802.11ax (HE160) / CH143(Low Edge)



802.11ax (HE160) / CH143(Middle)



802.11ax (HE160) / CH143(High Edge)

For U-NII-8

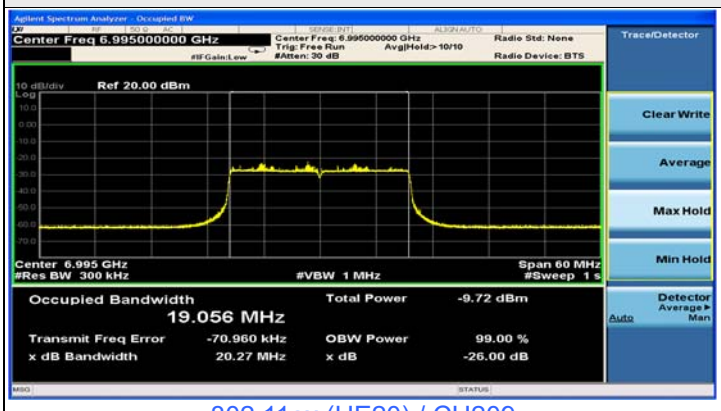
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	209	6995	6995	-82	-2.7	0	-79.3	-62	OFF
					-84	-2.7	0	-81.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
	160	207	6985	6910	-79	-2.7	0	-76.3	-62	OFF
					-83	-2.7	0	-80.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				6985	-70	-2.7	0	-67.3	-62	OFF
					-77	-2.7	0	-74.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON
				7060	-78	-2.7	0	-75.3	-62	OFF
					-83	-2.7	0	-80.3	-62	Minimal
					-85	-2.7	0	-82.3	-62	ON

Notes:

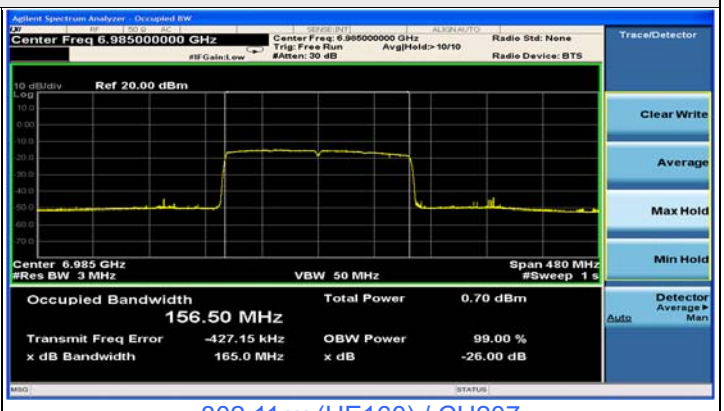
1. After investigation (consider antenna gain and path loss), the one representative port (Ant. 2) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability														
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6995	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6910	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6985	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		7060	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

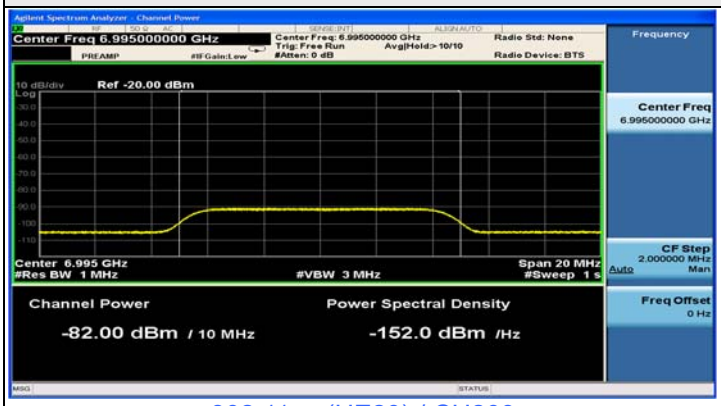
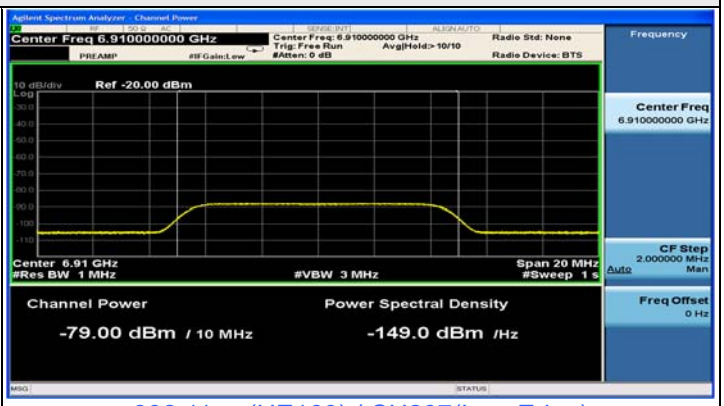
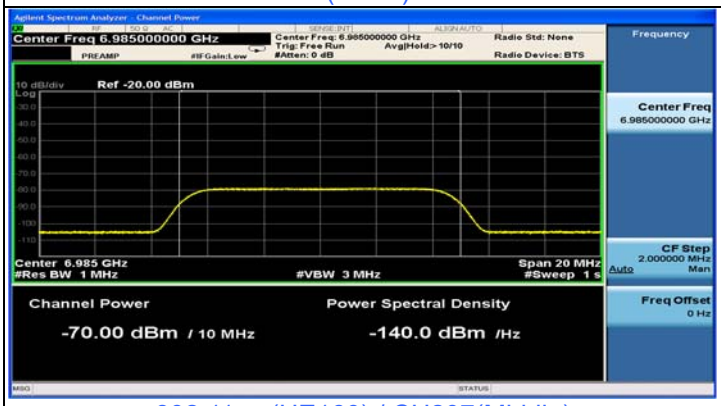
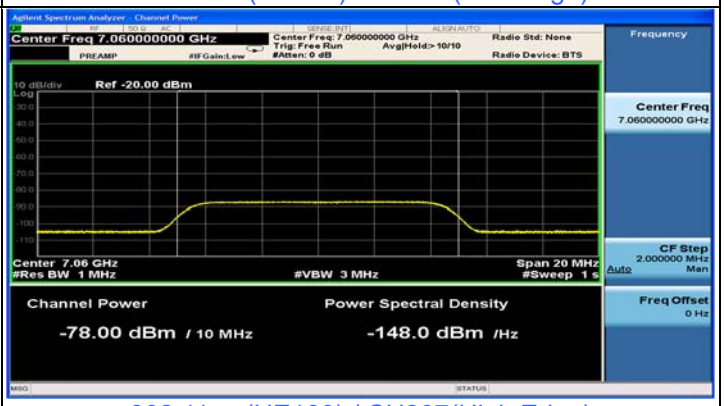
Plots of EUT Tx waveform

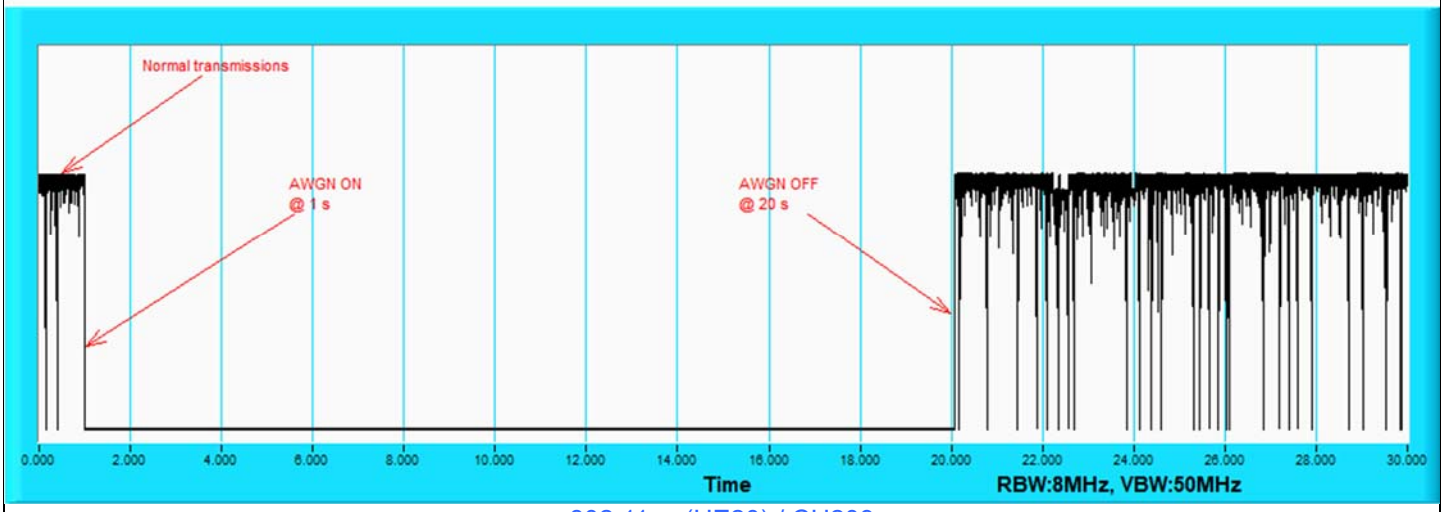


802.11ax (HE20) / CH209

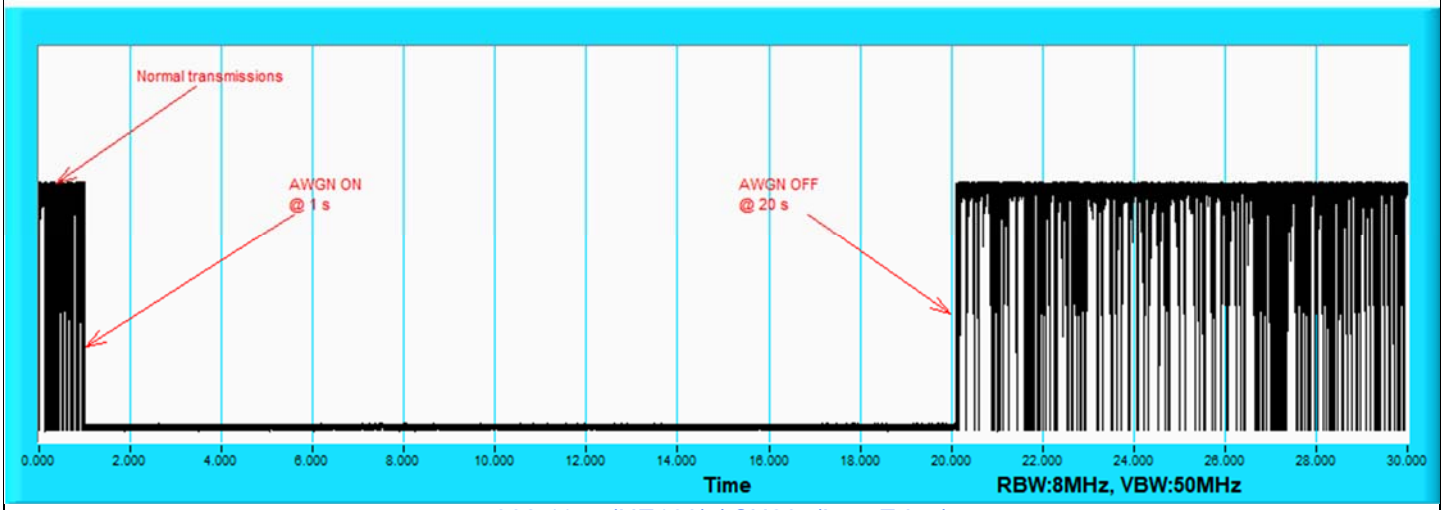


802.11ax (HE160) / CH207

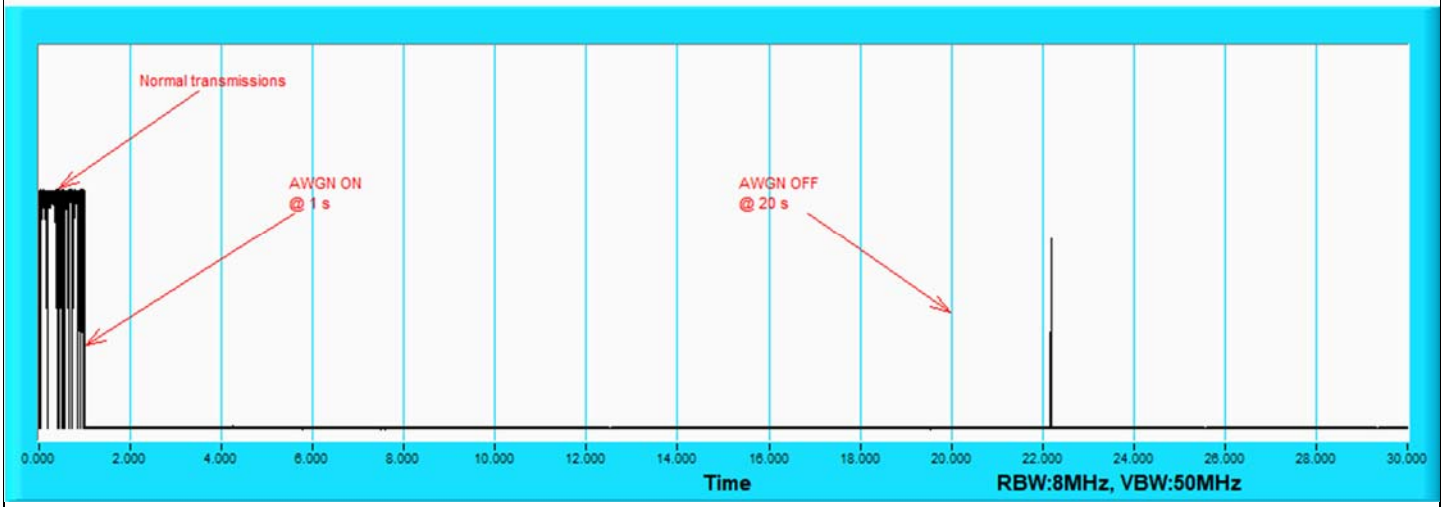
Plots of Injected signal (AWGN) level	
	
802.11ax (HE20) / CH209	802.11ax (HE160) / CH207(Low Edge)
	
802.11ax (HE160) / CH207(Middle)	802.11ax (HE160) / CH207(High Edge)

Plots of EUT ceased transmission in the time domain

802.11ax (HE20) / CH209

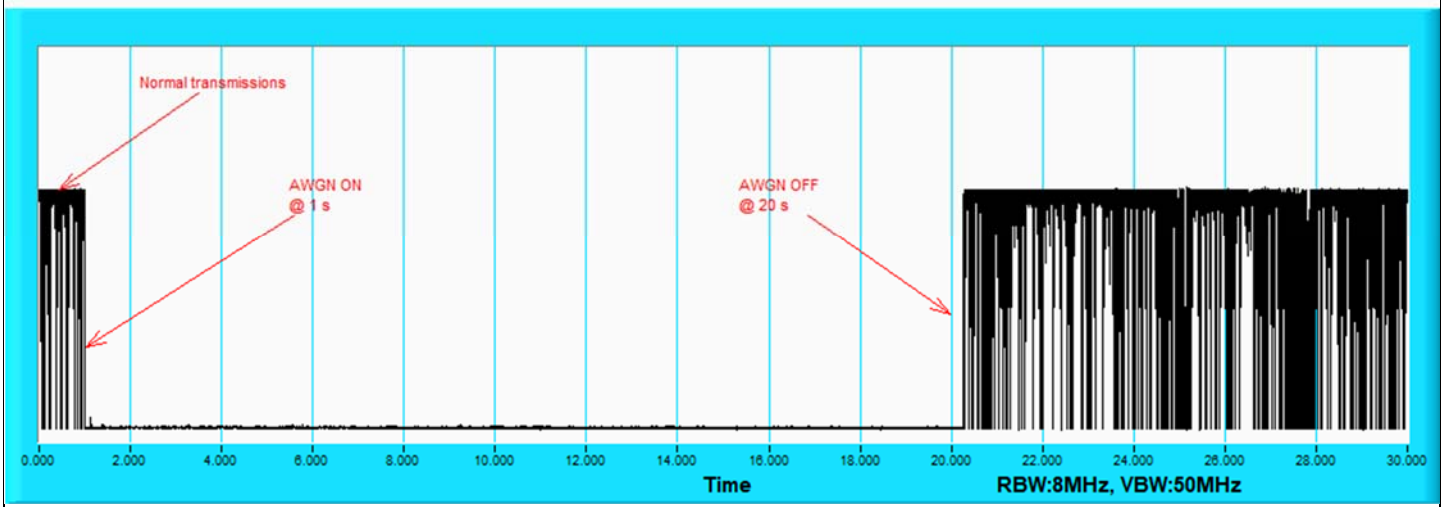
Plots of EUT ceased transmission in the time domain



802.11ax (HE160) / CH207(Low Edge)



802.11ax (HE160) / CH207(Middle)



802.11ax (HE160) / CH207(High Edge)

For Verify bandwidth reduction

Plots of EUT ceased transmission in the frequency domain	
 802.11ax (HE160) / CH47(Low Edge) A 10 MHz AWGN signal (centered at 6110 MHz) is injected. The channel reduces to a 20 MHz channel centered around 6175 MHz.	 802.11ax (HE160) / CH47(Middle) A 10 MHz AWGN signal (centered at 6185 MHz) is injected. The channel completely ceases operation.
 802.11ax (HE160) / CH47(High Edge) A 10 MHz AWGN signal (centered at 6260 MHz) is injected. The channel reduces to a 20 MHz channel centered around 6175 MHz.	

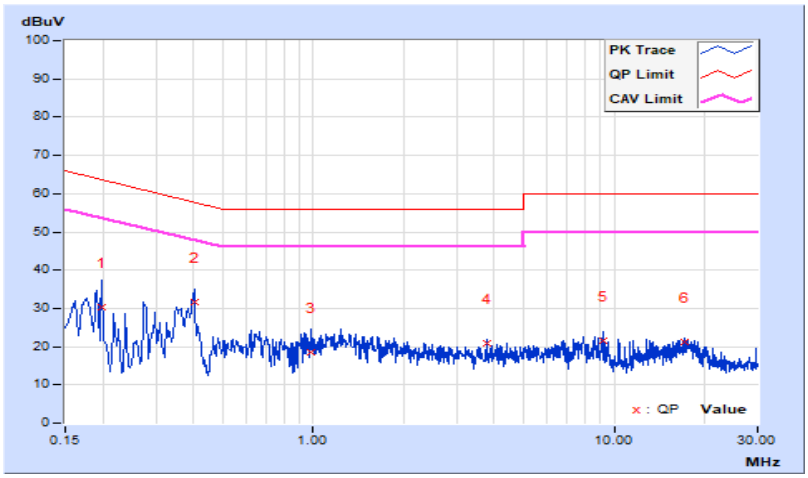
7.8 AC Power Conducted Emissions

RF Mode	802.11ax (HE160)	**Channel**	CH 79：6345 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Vincent Chen		

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	0.19800	10.40	19.91	3.09	30.31	13.49	63.69	53.69	-33.38	-40.20
2	0.40200	10.49	21.11	11.35	31.60	21.84	57.81	47.81	-26.21	-25.97
3	0.98200	10.54	7.82	-1.64	18.36	8.90	56.00	46.00	-37.64	-37.10
4	3.79400	10.65	10.19	5.52	20.84	16.17	56.00	46.00	-35.16	-29.83
5	9.15800	10.72	10.68	6.89	21.40	17.61	60.00	50.00	-38.60	-32.39
6	17.05000	10.89	10.21	7.01	21.10	17.90	60.00	50.00	-38.90	-32.10

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

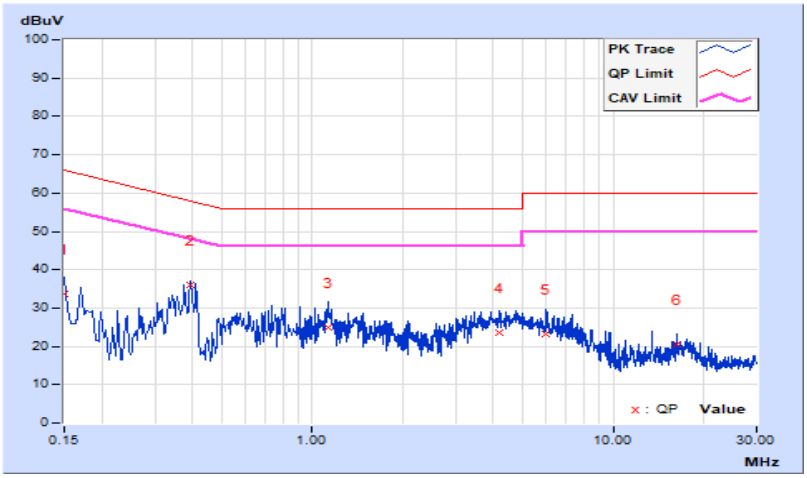


RF Mode	802.11ax (HE160)	**Channel**	CH 79：6345 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 67% RH
Tested By	Vincent Chen		

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	10.40	23.23	11.18	33.63	21.58	66.00	56.00	-32.37	-34.42
2	**0.39400**	**10.53**	**25.53**	**15.04**	**36.06**	**25.57**	**57.98**	**47.98**	**-21.92**	**-22.41**
3	1.12600	10.56	14.28	5.48	24.84	16.04	56.00	46.00	-31.16	-29.96
4	4.19000	10.73	12.99	3.59	23.72	14.32	56.00	46.00	-32.28	-31.68
5	6.00200	10.77	12.41	3.78	23.18	14.55	60.00	50.00	-36.82	-35.45
6	16.24600	11.03	9.52	4.26	20.55	15.29	60.00	50.00	-39.45	-34.71

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



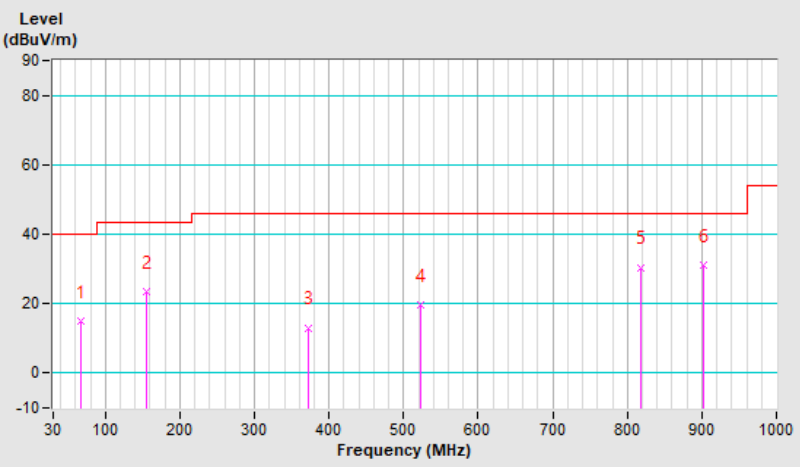
7.9 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE160)	**Channel**	CH 79：6345 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	24°C, 78% RH
Tested By	Vincent Chen		

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	67.83	15.1 QP	40.0	-24.9	2.00 H	170	29.5	-14.4
2	156.10	23.4 QP	43.5	-20.1	2.00 H	12	36.0	-12.6
3	372.41	13.1 QP	46.0	-32.9	1.00 H	150	23.4	-10.3
4	523.73	19.6 QP	46.0	-26.4	1.50 H	18	25.8	-6.2
5	818.61	30.5 QP	46.0	-15.5	1.00 H	8	31.4	-0.9
6	902.03	31.1 QP	46.0	-14.9	2.00 H	164	31.8	-0.7

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

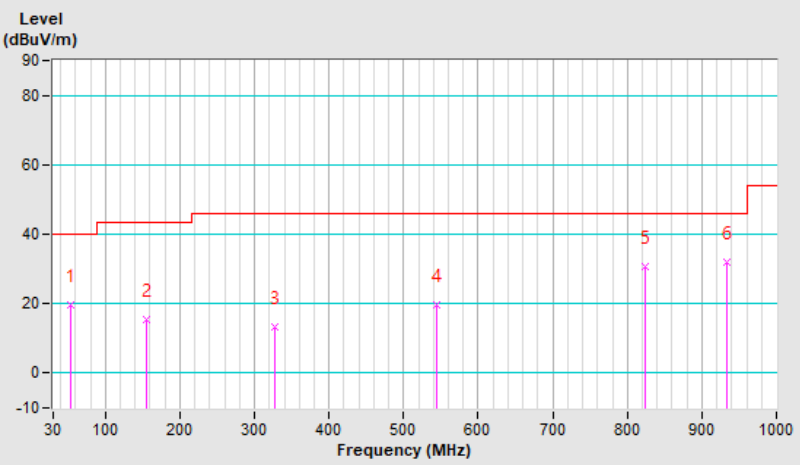


RF Mode	802.11ax (HE160)	Channel	CH 79：6345 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 78% RH
Tested By	Vincent Chen		

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	53.28	19.7 QP	40.0	-20.3	2.00 V	3	32.2	-12.5
2	155.13	15.5 QP	43.5	-28.0	2.00 V	251	28.1	-12.6
3	327.79	13.3 QP	46.0	-32.7	1.00 V	126	24.5	-11.2
4	545.07	19.7 QP	46.0	-26.3	1.50 V	18	25.9	-6.2
5	823.46	30.7 QP	46.0	-15.3	1.00 V	236	31.6	-0.9
6	**933.07**	**31.9 QP**	**46.0**	**-14.1**	**1.00 V**	**66**	**32.4**	**-0.5**

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.10 Unwanted Emissions above 1 GHz

RF Mode	802.11ax (HE20)	Channel	CH 9：5995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	58.4 PK	88.2	-29.8	1.55 H	197	53.9	4.5
2	#5925.00	45.3 AV	68.2	-22.9	1.55 H	197	40.8	4.5
3	*5995.00	113.6 PK			1.55 H	197	71.5	42.1
4	*5995.00	100.7 AV			1.55 H	197	58.6	42.1
5	11990.00	59.3 PK	74.0	-14.7	2.87 H	168	49.3	10.0
6	11990.00	46.8 AV	54.0	-7.2	2.87 H	168	36.8	10.0
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	#5925.00	58.1 PK	88.2	-30.1	1.42 V	242	53.6	4.5
2	#5925.00	44.9 AV	68.2	-23.3	1.42 V	242	40.4	4.5
3	*5995.00	112.8 PK			1.42 V	242	70.7	42.1
4	*5995.00	99.6 AV			1.42 V	242	57.5	42.1
5	11990.00	58.7 PK	74.0	-15.3	2.46 V	183	48.7	10.0
6	11990.00	45.6 AV	54.0	-8.4	2.46 V	183	35.6	10.0

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 45：6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	112.2 PK			1.04 H	189	67.8	44.4
2	*6175.00	99.1 AV			1.04 H	189	54.7	44.4
3	12350.00	62.7 PK	74.0	-11.3	2.04 H	176	52.1	10.6
4	12350.00	49.3 AV	54.0	-4.7	2.04 H	176	38.7	10.6
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	*6175.00	112.0 PK			1.33 V	241	67.6	44.4
2	*6175.00	98.9 AV			1.33 V	241	54.5	44.4
3	12350.00	62.3 PK	74.0	-11.7	2.06 V	157	51.7	10.6
4	12350.00	48.2 AV	54.0	-5.8	2.06 V	157	37.6	10.6

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20)	Channel	CH 93：6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	112.5 PK			1.12 H	156	67.1	45.4
2	*6415.00	99.6 AV			1.12 H	156	54.2	45.4
3	#12830.00	62.4 PK	88.2	-25.8	2.14 H	186	51.5	10.9
4	#12830.00	49.9 AV	68.2	-18.3	2.14 H	186	39.0	10.9
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	*6415.00	112.2 PK			1.31 V	279	66.8	45.4
2	*6415.00	99.4 AV			1.31 V	279	54.0	45.4
3	#12830.00	61.3 PK	88.2	-26.9	1.46 V	254	50.4	10.9
4	#12830.00	49.2 AV	68.2	-19.0	1.46 V	254	38.3	10.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 97：6435 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	113.3 PK			1.03 H	157	67.7	45.6
2	*6435.00	100.5 AV			1.03 H	157	54.9	45.6
3	#12870.00	61.9 PK	88.2	-26.3	2.79 H	120	51.2	10.7
4	#12870.00	49.1 AV	68.2	-19.1	2.79 H	120	38.4	10.7
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	*6435.00	113.1 PK			1.09 V	271	67.5	45.6
2	*6435.00	100.3 AV			1.09 V	271	54.7	45.6
3	#12870.00	61.3 PK	88.2	-26.9	3.24 V	186	50.6	10.7
4	#12870.00	48.5 AV	68.2	-19.7	3.24 V	186	37.8	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 105：6475 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	113.4 PK			1.13 H	152	67.6	45.8
2	*6475.00	100.1 AV			1.13 H	152	54.3	45.8
3	#12950.00	62.0 PK	88.2	-26.2	2.04 H	305	51.5	10.5
4	#12950.00	48.9 AV	68.2	-19.3	2.04 H	305	38.4	10.5
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	*6475.00	113.2 PK			1.28 V	277	67.4	45.8
2	*6475.00	99.9 AV			1.28 V	277	54.1	45.8
3	#12950.00	61.1 PK	88.2	-27.1	2.33 V	246	50.6	10.5
4	#12950.00	48.1 AV	68.2	-20.1	2.33 V	246	37.6	10.5

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 113：6515 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.0 PK			1.02 H	152	64.2	45.8
2	*6515.00	100.9 AV			1.02 H	152	55.1	45.8
3	#13030.00	62.2 PK	88.2	-26.0	2.17 H	163	51.5	10.7
4	#13030.00	49.4 AV	68.2	-18.8	2.17 H	163	38.7	10.7
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	*6515.00	109.7 PK			1.06 V	276	63.9	45.8
2	*6515.00	100.6 AV			1.06 V	276	54.8	45.8
3	#13030.00	61.5 PK	88.2	-26.7	2.25 V	158	50.8	10.7
4	#13030.00	48.3 AV	68.2	-19.9	2.25 V	158	37.6	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 117：6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	114.2 PK			1.13 H	153	68.3	45.9
2	*6535.00	101.0 AV			1.13 H	153	55.1	45.9
3	#13070.00	62.7 PK	88.2	-25.5	2.42 H	196	62.1	0.6
4	#13070.00	50.1 AV	68.2	-18.1	2.42 H	196	49.5	0.6
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	*6535.00	113.9 PK			1.18 V	265	68.0	45.9
2	*6535.00	100.7 AV			1.18 V	265	54.8	45.9
3	#13070.00	62.4 PK	88.2	-25.8	2.42 V	165	61.8	0.6
4	#13070.00	49.3 AV	68.2	-18.9	2.42 V	165	48.7	0.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 149：6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	114.6 PK			1.28 H	147	68.6	46.0
2	*6695.00	101.5 AV			1.28 H	147	55.5	46.0
3	13390.00	63.7 PK	74.0	-10.3	2.41 H	103	61.8	1.9
4	13390.00	49.6 AV	54.0	-4.4	2.41 H	103	47.7	1.9
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	*6695.00	114.4 PK			1.00 V	276	68.4	46.0
2	*6695.00	101.3 AV			1.00 V	276	55.3	46.0
3	13390.00	62.3 PK	74.0	-11.7	1.82 V	196	60.4	1.9
4	13390.00	48.2 AV	54.0	-5.8	1.82 V	196	46.3	1.9

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20)	Channel	CH 181：6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	114.1 PK			1.25 H	147	67.5	46.6
2	*6855.00	101.1 AV			1.25 H	147	54.5	46.6
3	#13710.00	63.9 PK	88.2	-24.3	1.86 H	258	60.3	3.6
4	#13710.00	49.3 AV	68.2	-18.9	1.86 H	258	45.7	3.6
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	*6855.00	113.9 PK			1.13 V	304	67.3	46.6
2	*6855.00	100.8 AV			1.13 V	304	54.2	46.6
3	#13710.00	63.1 PK	88.2	-25.1	2.04 V	159	59.5	3.6
4	#13710.00	48.2 AV	68.2	-20.0	2.04 V	159	44.6	3.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 185：6875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	113.6 PK			1.00 H	146	67.0	46.6
2	*6875.00	101.0 AV			1.00 H	146	54.4	46.6
3	#13750.00	66.7 PK	88.2	-21.5	2.54 H	158	63.4	3.3
4	#13750.00	53.4 AV	68.2	-14.8	2.54 H	158	50.1	3.3
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	*6875.00	112.3 PK			1.95 V	314	65.7	46.6
2	*6875.00	99.5 AV			1.95 V	314	52.9	46.6
3	#13750.00	65.3 PK	88.2	-22.9	2.14 V	259	62.0	3.3
4	#13750.00	52.7 AV	68.2	-15.5	2.14 V	259	49.4	3.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 209：6995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	113.1 PK			1.00 H	261	65.5	47.6
2	*6995.00	100.1 AV			1.00 H	261	52.5	47.6
3	#13990.00	67.5 PK	88.2	-20.7	1.78 H	123	62.9	4.6
4	#13990.00	53.8 AV	68.2	-14.4	1.78 H	123	49.2	4.6
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	110.5 PK			1.28 V	309	62.9	47.6
2	*6995.00	97.6 AV			1.28 V	309	50.0	47.6
3	#13990.00	66.3 PK	88.2	-21.9	2.78 V	147	61.7	4.6
4	#13990.00	53.2 AV	68.2	-15.0	2.78 V	147	48.6	4.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20)	Channel	CH 229：7095 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	*7095.00	115.6 PK			2.09 H	241	67.4	48.2
2	*7095.00	101.8 AV			2.09 H	241	53.6	48.2
3	#7125.00	76.2 PK	88.2	-12.0	2.09 H	241	78.7	-2.5
4	#7125.00	60.4 AV	68.2	-7.8	2.09 H	241	62.9	-2.5
5	#14190.00	66.5 PK	88.2	-21.7	1.69 H	204	60.8	5.7
6	#14190.00	54.3 AV	68.2	-13.9	1.69 H	204	48.6	5.7
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	*7095.00	112.8 PK			2.28 V	239	64.6	48.2
2	*7095.00	99.7 AV			2.28 V	239	51.5	48.2
3	#7125.00	72.6 PK	88.2	-15.6	2.28 V	239	75.1	-2.5
4	#7125.00	57.0 AV	68.2	-11.2	2.28 V	239	59.5	-2.5
5	#14190.00	65.4 PK	88.2	-22.8	1.63 V	117	59.7	5.7
6	#14190.00	53.2 AV	68.2	-15.0	1.63 V	117	47.5	5.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 11：6005 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	62.3 PK	88.2	-25.9	1.10 H	193	71.2	-8.9
2	#5925.00	48.2 AV	68.2	-20.0	1.10 H	193	57.1	-8.9
3	*6005.00	110.9 PK			1.10 H	193	68.7	42.2
4	*6005.00	98.1 AV			1.10 H	193	55.9	42.2
5	12010.00	62.4 PK	74.0	-11.6	1.85 H	225	62.8	-0.4
6	12010.00	49.5 AV	54.0	-4.5	1.85 H	225	49.9	-0.4
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	#5925.00	60.6 PK	88.2	-27.6	1.21 V	263	69.5	-8.9
2	#5925.00	47.5 AV	68.2	-20.7	1.21 V	263	56.4	-8.9
3	*6005.00	110.3 PK			1.21 V	263	68.1	42.2
4	*6005.00	97.8 AV			1.21 V	263	55.6	42.2
5	12010.00	62.3 PK	74.0	-11.7	2.01 V	158	62.7	-0.4
6	12010.00	49.4 AV	54.0	-4.6	2.01 V	158	49.8	-0.4

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 43：6165 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.3 PK			1.08 H	191	66.1	44.2
2	*6165.00	97.6 AV			1.08 H	191	53.4	44.2
3	12330.00	62.4 PK	74.0	-11.6	2.54 H	123	61.3	1.1
4	12330.00	49.6 AV	54.0	-4.4	2.54 H	123	48.5	1.1
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	*6165.00	110.0 PK			1.23 V	275	65.8	44.2
2	*6165.00	97.3 AV			1.23 V	275	53.1	44.2
3	12330.00	61.8 PK	74.0	-12.2	2.05 V	153	60.7	1.1
4	12330.00	48.6 AV	54.0	-5.4	2.05 V	153	47.5	1.1

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40)	Channel	CH 91：6405 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.0 PK			1.05 H	158	65.6	45.4
2	*6405.00	97.7 AV			1.05 H	158	52.3	45.4
3	#12810.00	62.3 PK	88.2	-25.9	2.23 H	197	60.7	1.6
4	#12810.00	49.4 AV	68.2	-18.8	2.23 H	197	47.8	1.6
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	*6405.00	110.8 PK			1.03 V	275	65.4	45.4
2	*6405.00	97.4 AV			1.03 V	275	52.0	45.4
3	#12810.00	61.3 PK	88.2	-26.9	1.86 V	201	59.7	1.6
4	#12810.00	48.1 AV	68.2	-20.1	1.86 V	201	46.5	1.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 99：6445 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.3 PK			1.05 H	159	65.7	45.6
2	*6445.00	98.4 AV			1.05 H	159	52.8	45.6
3	#12890.00	62.7 PK	88.2	-25.5	2.52 H	196	61.4	1.3
4	#12890.00	49.6 AV	68.2	-18.6	2.52 H	196	48.3	1.3
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	*6445.00	111.1 PK			1.15 V	269	65.5	45.6
2	*6445.00	98.2 AV			1.15 V	269	52.6	45.6
3	#12890.00	61.7 PK	88.2	-26.5	2.04 V	127	60.4	1.3
4	#12890.00	48.5 AV	68.2	-19.7	2.04 V	127	47.2	1.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 107：6485 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.8 PK			1.20 H	153	65.0	45.8
2	*6485.00	98.3 AV			1.20 H	153	52.5	45.8
3	#12970.00	62.2 PK	88.2	-26.0	1.85 H	207	61.4	0.8
4	#12970.00	49.1 AV	68.2	-19.1	1.85 H	207	48.3	0.8
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	*6485.00	110.5 PK			1.00 V	275	64.7	45.8
2	*6485.00	98.1 AV			1.00 V	275	52.3	45.8
3	#12970.00	61.3 PK	88.2	-26.9	2.24 V	189	60.5	0.8
4	#12970.00	48.4 AV	68.2	-19.8	2.24 V	189	47.6	0.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 115：6525 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.8 PK			1.15 H	154	64.9	45.9
2	*6525.00	98.2 AV			1.15 H	154	52.3	45.9
3	#13050.00	62.4 PK	88.2	-25.8	2.28 H	193	61.9	0.5
4	#13050.00	49.3 AV	68.2	-18.9	2.28 H	193	48.8	0.5
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	*6525.00	110.6 PK			1.00 V	266	64.7	45.9
2	*6525.00	98.0 AV			1.00 V	266	52.1	45.9
3	#13050.00	61.0 PK	88.2	-27.2	2.04 V	118	60.5	0.5
4	#13050.00	48.1 AV	68.2	-20.1	2.04 V	118	47.6	0.5

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 123：6565 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.9 PK			1.15 H	154	65.9	46.0
2	*6565.00	98.9 AV			1.15 H	154	52.9	46.0
3	#13130.00	62.5 PK	88.2	-25.7	1.86 H	274	61.7	0.8
4	#13130.00	49.7 AV	68.2	-18.5	1.86 H	274	48.9	0.8
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	*6565.00	111.7 PK			1.18 V	265	65.7	46.0
2	*6565.00	98.7 AV			1.18 V	265	52.7	46.0
3	#13130.00	61.2 PK	88.2	-27.0	2.14 V	182	60.4	0.8
4	#13130.00	48.4 AV	68.2	-19.8	2.14 V	182	47.6	0.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 155：6725 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.9 PK			1.39 H	146	65.9	46.0
2	*6725.00	99.4 AV			1.39 H	146	53.4	46.0
3	#13450.00	62.3 PK	88.2	-25.9	2.78 H	15	59.7	2.6
4	#13450.00	49.2 AV	68.2	-19.0	2.78 H	15	46.6	2.6
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	*6725.00	111.7 PK			1.02 V	275	65.7	46.0
2	*6725.00	99.1 AV			1.02 V	275	53.1	46.0
3	#13450.00	61.0 PK	88.2	-27.2	1.72 V	136	58.4	2.6
4	#13450.00	48.3 AV	68.2	-19.9	1.72 V	136	45.7	2.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 179：6845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.9 PK			1.34 H	142	65.3	46.6
2	*6845.00	98.5 AV			1.34 H	142	51.9	46.6
3	#13690.00	62.3 PK	88.2	-25.9	2.41 H	182	58.7	3.6
4	#13690.00	49.6 AV	68.2	-18.6	2.41 H	182	46.0	3.6
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	*6845.00	110.2 PK			2.20 V	308	63.6	46.6
2	*6845.00	97.7 AV			2.20 V	308	51.1	46.6
3	#13690.00	61.0 PK	88.2	-27.2	1.78 V	153	57.4	3.6
4	#13690.00	48.9 AV	68.2	-19.3	1.78 V	153	45.3	3.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 187：6885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.9 PK			1.12 H	146	64.3	46.6
2	*6885.00	97.9 AV			1.12 H	146	51.3	46.6
3	#13770.00	62.4 PK	88.2	-25.8	2.43 H	196	59.2	3.2
4	#13770.00	49.3 AV	68.2	-18.9	2.43 H	196	46.1	3.2
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	*6885.00	110.7 PK			1.17 V	298	64.1	46.6
2	*6885.00	97.7 AV			1.17 V	298	51.1	46.6
3	#13770.00	61.6 PK	88.2	-26.6	1.58 V	205	58.4	3.2
4	#13770.00	48.6 AV	68.2	-19.6	1.58 V	205	45.4	3.2

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 211：7005 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.8 PK			1.33 H	138	63.1	47.7
2	*7005.00	98.1 AV			1.33 H	138	50.4	47.7
3	#14010.00	62.2 PK	88.2	-26.0	1.97 H	206	57.3	4.9
4	#14010.00	49.4 AV	68.2	-18.8	1.97 H	206	44.5	4.9
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	*7005.00	110.7 PK			1.07 V	287	63.0	47.7
2	*7005.00	98.1 AV			1.07 V	287	50.4	47.7
3	#14010.00	61.6 PK	88.2	-26.6	2.34 V	158	56.7	4.9
4	#14010.00	48.3 AV	68.2	-19.9	2.34 V	158	43.4	4.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 227：7085 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	108.7 PK			2.03 H	155	60.5	48.2
2	*7085.00	95.7 AV			2.03 H	155	47.5	48.2
3	#7125.00	83.3 PK	88.2	-4.9	2.03 H	155	85.8	-2.5
4	#7125.00	66.9 AV	68.2	-1.3	2.03 H	155	69.4	-2.5
5	#14170.00	62.1 PK	88.2	-26.1	1.25 H	268	56.3	5.8
6	#14170.00	49.3 AV	68.2	-18.9	1.25 H	268	43.5	5.8
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	*7085.00	108.5 PK			1.01 V	287	60.3	48.2
2	*7085.00	95.5 AV			1.01 V	287	47.3	48.2
3	#7125.00	82.7 PK	88.2	-5.5	1.01 V	287	85.2	-2.5
4	#7125.00	66.6 AV	68.2	-1.6	1.01 V	287	69.1	-2.5
5	#14170.00	61.5 PK	88.2	-26.7	1.85 V	223	55.7	5.8
6	#14170.00	48.7 AV	68.2	-19.5	1.85 V	223	42.9	5.8

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 23：6065 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	60.6 PK	88.2	-27.6	1.95 H	197	69.5	-8.9
2	#5925.00	47.2 AV	68.2	-21.0	1.95 H	197	56.1	-8.9
3	*6065.00	109.0 PK			1.95 H	197	66.5	42.5
4	*6065.00	95.0 AV			1.95 H	197	52.5	42.5
5	12130.00	61.4 PK	74.0	-12.6	1.36 H	254	60.9	0.5
6	12130.00	47.0 AV	54.0	-7.0	1.36 H	254	46.5	0.5
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	#5925.00	60.4 PK	88.2	-27.8	1.23 V	276	69.3	-8.9
2	#5925.00	47.0 AV	68.2	-21.2	1.23 V	276	55.9	-8.9
3	*6065.00	108.8 PK			1.23 V	276	66.3	42.5
4	*6065.00	94.8 AV			1.23 V	276	52.3	42.5
5	12130.00	60.8 PK	74.0	-13.2	1.75 V	220	60.3	0.5
6	12130.00	47.0 AV	54.0	-7.0	1.75 V	220	46.5	0.5

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 39：6145 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.2 PK			1.37 H	191	66.4	43.8
2	*6145.00	96.2 AV			1.37 H	191	52.4	43.8
3	12290.00	61.5 PK	74.0	-12.5	1.41 H	265	59.8	1.7
4	12290.00	47.0 AV	54.0	-7.0	1.41 H	265	45.3	1.7
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	*6145.00	110.0 PK			1.00 V	261	66.2	43.8
2	*6145.00	96.0 AV			1.00 V	261	52.2	43.8
3	12290.00	60.3 PK	74.0	-13.7	1.68 V	222	58.6	1.7
4	12290.00	46.5 AV	54.0	-7.5	1.68 V	222	44.8	1.7

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE80)	Channel	CH 87：6385 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.4 PK			1.07 H	184	66.2	45.2
2	*6385.00	97.4 AV			1.07 H	184	52.2	45.2
3	#12770.00	62.2 PK	88.2	-26.0	2.10 H	188	60.9	1.3
4	#12770.00	48.9 AV	68.2	-19.3	2.10 H	188	47.6	1.3
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	*6385.00	111.3 PK			1.00 V	275	66.1	45.2
2	*6385.00	97.3 AV			1.00 V	275	52.1	45.2
3	#12770.00	61.1 PK	88.2	-27.1	1.75 V	211	59.8	1.3
4	#12770.00	47.8 AV	68.2	-20.4	1.75 V	211	46.5	1.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 103：6465 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.1 PK			1.00 H	161	65.5	45.6
2	*6465.00	97.6 AV			1.00 H	161	52.0	45.6
3	#12930.00	61.9 PK	88.2	-26.3	2.41 H	191	60.8	1.1
4	#12930.00	48.6 AV	68.2	-19.6	2.41 H	191	47.5	1.1
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	*6465.00	111.0 PK			1.00 V	282	65.4	45.6
2	*6465.00	97.5 AV			1.00 V	282	51.9	45.6
3	#12930.00	61.0 PK	88.2	-27.2	2.01 V	166	59.9	1.1
4	#12930.00	48.0 AV	68.2	-20.2	2.01 V	166	46.9	1.1

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 119：6545 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	111.8 PK			1.07 H	159	65.9	45.9
2	*6545.00	97.8 AV			1.07 H	159	51.9	45.9
3	#13090.00	60.9 PK	88.2	-27.3	2.55 H	188	60.2	0.7
4	#13090.00	46.9 AV	68.2	-21.3	2.55 H	188	46.2	0.7
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	*6545.00	111.7 PK			1.00 V	283	65.8	45.9
2	*6545.00	97.7 AV			1.00 V	283	51.8	45.9
3	#13090.00	61.0 PK	88.2	-27.2	2.10 V	174	60.3	0.7
4	#13090.00	45.9 AV	68.2	-22.3	2.10 V	174	45.2	0.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 151：6705 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	112.1 PK			1.15 H	156	66.1	46.0
2	*6705.00	98.1 AV			1.15 H	156	52.1	46.0
3	#13410.00	63.6 PK	88.2	-24.6	2.11 H	184	61.5	2.1
4	#13410.00	48.6 AV	68.2	-19.6	2.11 H	184	46.5	2.1
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	*6705.00	112.0 PK			1.00 V	282	66.0	46.0
2	*6705.00	98.0 AV			1.00 V	282	52.0	46.0
3	#13410.00	62.6 PK	88.2	-25.6	1.99 V	162	60.5	2.1
4	#13410.00	47.7 AV	68.2	-20.5	1.99 V	162	45.6	2.1

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 183：6865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.7 PK			1.93 H	202	64.1	46.6
2	*6865.00	96.7 AV			1.93 H	202	50.1	46.6
3	#13730.00	65.1 PK	88.2	-23.1	2.22 H	187	61.6	3.5
4	#13730.00	50.2 AV	68.2	-18.0	2.22 H	187	46.7	3.5
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	*6865.00	110.6 PK			1.00 V	275	64.0	46.6
2	*6865.00	96.6 AV			1.00 V	275	50.0	46.6
3	#13730.00	64.2 PK	88.2	-24.0	2.05 V	174	60.7	3.5
4	#13730.00	49.1 AV	68.2	-19.1	2.05 V	174	45.6	3.5

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 199：6945 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.6 PK			1.99 H	202	63.6	47.0
2	*6945.00	96.1 AV			1.99 H	202	49.1	47.0
3	#13890.00	65.7 PK	88.2	-22.5	2.11 H	184	62.1	3.6
4	#13890.00	50.8 AV	68.2	-17.4	2.11 H	184	47.2	3.6
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	*6945.00	110.5 PK			1.00 V	289	63.5	47.0
2	*6945.00	96.0 AV			1.00 V	289	49.0	47.0
3	#13890.00	64.2 PK	88.2	-24.0	1.98 V	164	60.6	3.6
4	#13890.00	50.0 AV	68.2	-18.2	1.98 V	164	46.4	3.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE80)	Channel	CH 215：7025 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	112.3 PK			2.17 H	263	64.4	47.9
2	*7025.00	98.5 AV			2.17 H	263	50.6	47.9
3	#7125.00	76.7 PK	88.2	-11.5	2.17 H	263	79.2	-2.5
4	#7125.00	60.7 AV	68.2	-7.5	2.17 H	263	63.2	-2.5
5	#14050.00	66.5 PK	88.2	-21.7	2.05 H	199	61.2	5.3
6	#14050.00	52.4 AV	68.2	-15.8	2.05 H	199	47.1	5.3
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	*7025.00	111.4 PK			1.00 V	284	63.5	47.9
2	*7025.00	98.0 AV			1.00 V	284	50.1	47.9
3	#7125.00	75.6 PK	88.2	-12.6	1.00 V	284	78.1	-2.5
4	#7125.00	61.3 AV	68.2	-6.9	1.00 V	284	63.8	-2.5
5	#14050.00	66.0 PK	88.2	-22.2	2.10 V	162	60.7	5.3
6	#14050.00	51.9 AV	68.2	-16.3	2.10 V	162	46.6	5.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE160)	Channel	CH 47：6185 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	52.2 PK	88.2	-36.0	1.50 H	187	61.1	-8.9
2	#5925.00	38.9 AV	68.2	-29.3	1.50 H	187	47.8	-8.9
3	*6185.00	106.6 PK			1.50 H	187	61.8	44.8
4	*6185.00	91.6 AV			1.50 H	187	46.8	44.8
5	12370.00	61.9 PK	74.0	-12.1	2.03 H	199	61.5	0.4
6	12370.00	46.9 AV	54.0	-7.1	2.03 H	199	46.5	0.4
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	#5925.00	54.4 PK	88.2	-33.8	1.42 V	242	63.3	-8.9
2	#5925.00	41.2 AV	68.2	-27.0	1.42 V	242	50.1	-8.9
3	*6185.00	106.4 PK			1.42 V	242	61.6	44.8
4	*6185.00	92.1 AV			1.42 V	242	47.3	44.8
5	12370.00	60.9 PK	74.0	-13.1	2.15 V	166	60.5	0.4
6	12370.00	46.2 AV	54.0	-7.8	2.15 V	166	45.8	0.4

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE160)	Channel	CH 79：6345 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	108.0 PK			2.20 H	247	62.7	45.3
2	*6345.00	93.7 AV			2.20 H	247	48.4	45.3
3	12690.00	62.5 PK	74.0	-11.5	2.20 H	204	61.8	0.7
4	12690.00	46.3 AV	54.0	-7.7	2.20 H	204	45.6	0.7
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	*6345.00	107.1 PK			1.00 V	276	61.8	45.3
2	*6345.00	92.4 AV			1.00 V	276	47.1	45.3
3	12690.00	62.2 PK	74.0	-11.8	2.11 V	168	61.5	0.7
4	12690.00	47.2 AV	54.0	-6.8	2.11 V	168	46.5	0.7

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE160)	Channel	CH 111：6505 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	109.4 PK			2.07 H	247	63.6	45.8
2	*6505.00	95.5 AV			2.07 H	247	49.7	45.8
3	#13010.00	62.1 PK	88.2	-26.1	2.05 H	198	61.5	0.6
4	#13010.00	47.0 AV	68.2	-21.2	2.05 H	198	46.4	0.6
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	*6505.00	107.5 PK			2.10 V	254	61.7	45.8
2	*6505.00	94.1 AV			2.10 V	254	48.3	45.8
3	#13010.00	61.0 PK	88.2	-27.2	1.89 V	167	60.4	0.6
4	#13010.00	46.4 AV	68.2	-21.8	1.89 V	167	45.8	0.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE160)	Channel	CH 143：6665 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	107.7 PK			1.06 H	206	61.7	46.0
2	*6665.00	93.9 AV			1.06 H	206	47.9	46.0
3	13330.00	62.4 PK	74.0	-11.6	2.11 H	168	60.4	2.0
4	13330.00	47.6 AV	54.0	-6.4	2.11 H	168	45.6	2.0
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	107.6 PK			2.39 V	244	61.6	46.0
2	*6665.00	93.8 AV			2.39 V	244	47.8	46.0
3	13330.00	62.6 PK	74.0	-11.4	2.10 V	175	60.6	2.0
4	13330.00	47.9 AV	54.0	-6.1	2.10 V	175	45.9	2.0

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, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	108.0 PK			1.37 H	265	61.5	46.5
2	*6825.00	93.6 AV			1.37 H	265	47.1	46.5
3	#13650.00	65.0 PK	88.2	-23.2	1.99 H	210	61.5	3.5
4	#13650.00	50.3 AV	68.2	-17.9	1.99 H	210	46.8	3.5
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	*6825.00	106.8 PK			2.37 V	243	60.3	46.5
2	*6825.00	93.7 AV			2.37 V	243	47.2	46.5
3	#13650.00	64.0 PK	88.2	-24.2	2.05 V	172	60.5	3.5
4	#13650.00	49.2 AV	68.2	-19.0	2.05 V	172	45.7	3.5

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE160)	Channel	CH 207：6985 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	110.7 PK			2.03 H	245	63.2	47.5
2	*6985.00	97.1 AV			2.03 H	245	49.6	47.5
3	#7125.00	83.5 PK	88.2	-4.7	2.03 H	245	86.0	-2.5
4	**#7125.00**	**67.8 AV**	**68.2**	**-0.4**	**2.03 H**	**245**	**70.3**	**-2.5**
5	#13970.00	65.9 PK	88.2	-22.3	2.10 H	211	61.5	4.4
6	#13970.00	51.1 AV	68.2	-17.1	2.10 H	211	46.7	4.4
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	*6985.00	106.0 PK			1.99 V	276	58.5	47.5
2	*6985.00	91.6 AV			1.99 V	276	44.1	47.5
3	#7125.00	77.7 PK	88.2	-10.5	1.99 V	276	80.2	-2.5
4	#7125.00	62.5 AV	68.2	-5.7	1.99 V	276	65.0	-2.5
5	#13970.00	64.9 PK	88.2	-23.3	2.04 V	168	60.5	4.4
6	#13970.00	50.2 AV	68.2	-18.0	2.04 V	168	45.8	4.4

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

Partial RU

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 9：5995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	46.2 PK	88.2	-42.0	2.13 H	204	41.7	4.5
2	#5925.00	31.9 AV	68.2	-36.3	2.13 H	204	27.4	4.5
3	*5995.00	120.4 PK			2.13 H	204	78.3	42.1
4	*5995.00	110.8 AV			2.13 H	204	68.7	42.1
5	11990.00	63.3 PK	74.0	-10.7	2.88 H	174	53.3	10.0
6	11990.00	48.2 AV	54.0	-5.8	2.88 H	174	38.2	10.0
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	#5925.00	58.6 PK	88.2	-29.6	2.27 V	271	54.1	4.5
2	#5925.00	45.2 AV	68.2	-23.0	2.27 V	271	40.7	4.5
3	*5995.00	120.5 PK			2.27 V	271	78.4	42.1
4	*5995.00	111.0 AV			2.27 V	271	68.9	42.1
5	11990.00	63.4 PK	74.0	-10.6	2.44 V	181	53.4	10.0
6	11990.00	47.8 AV	54.0	-6.2	2.44 V	181	37.8	10.0

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 93：6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	118.9 PK			1.15 H	181	73.5	45.4
2	*6415.00	109.1 AV			1.15 H	181	63.7	45.4
3	#12830.00	64.1 PK	88.2	-24.1	2.21 H	166	53.2	10.9
4	#12830.00	49.3 AV	68.2	-18.9	2.21 H	166	38.4	10.9
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	*6415.00	122.1 PK			1.00 V	267	76.7	45.4
2	*6415.00	112.2 AV			1.00 V	267	66.8	45.4
3	#12830.00	65.1 PK	88.2	-23.1	1.65 V	251	54.2	10.9
4	#12830.00	50.4 AV	68.2	-17.8	1.65 V	251	39.5	10.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 97：6435 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	119.2 PK			2.14 H	202	73.6	45.6
2	*6435.00	110.0 AV			2.14 H	202	64.4	45.6
3	#12870.00	64.3 PK	88.2	-23.9	2.25 H	114	53.6	10.7
4	#12870.00	49.1 AV	68.2	-19.1	2.25 H	114	38.4	10.7
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	*6435.00	122.1 PK			2.19 V	254	76.5	45.6
2	*6435.00	112.8 AV			2.19 V	254	67.2	45.6
3	#12870.00	65.0 PK	88.2	-23.2	2.55 V	168	54.3	10.7
4	#12870.00	50.3 AV	68.2	-17.9	2.55 V	168	39.6	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 113：6515 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	119.4 PK			2.04 H	199	73.6	45.8
2	*6515.00	110.3 AV			2.04 H	199	64.5	45.8
3	#13030.00	63.9 PK	88.2	-24.3	2.11 H	154	53.2	10.7
4	#13030.00	49.3 AV	68.2	-18.9	2.11 H	154	38.6	10.7
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	*6515.00	122.0 PK			1.36 V	271	76.2	45.8
2	*6515.00	113.7 AV			1.36 V	271	67.9	45.8
3	#13030.00	64.9 PK	88.2	-23.3	2.22 V	188	54.2	10.7
4	#13030.00	50.0 AV	68.2	-18.2	2.22 V	188	39.3	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 117：6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	118.1 PK			1.50 H	215	72.2	45.9
2	*6535.00	108.7 AV			1.50 H	215	62.8	45.9
3	#13070.00	63.7 PK	88.2	-24.5	2.20 H	164	53.1	10.6
4	#13070.00	49.0 AV	68.2	-19.2	2.20 H	164	38.4	10.6
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	*6535.00	121.8 PK			2.16 V	254	75.9	45.9
2	*6535.00	112.8 AV			2.16 V	254	66.9	45.9
3	#13070.00	64.7 PK	88.2	-23.5	2.51 V	187	54.1	10.6
4	#13070.00	50.0 AV	68.2	-18.2	2.51 V	187	39.4	10.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 185：6875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	119.8 PK			1.21 H	197	73.2	46.6
2	*6875.00	109.7 AV			1.21 H	197	63.1	46.6
3	#13750.00	65.5 PK	88.2	-22.7	2.55 H	161	53.6	11.9
4	#13750.00	50.6 AV	68.2	-17.6	2.55 H	161	38.7	11.9
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	*6875.00	122.7 PK			2.03 V	251	76.1	46.6
2	*6875.00	114.5 AV			2.03 V	251	67.9	46.6
3	#13750.00	66.2 PK	88.2	-22.0	2.22 V	205	54.3	11.9
4	#13750.00	51.1 AV	68.2	-17.1	2.22 V	205	39.2	11.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 209：6995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	119.6 PK			1.23 H	199	72.0	47.6
2	*6995.00	109.0 AV			1.23 H	199	61.4	47.6
3	#13990.00	64.8 PK	88.2	-23.4	2.55 H	167	52.6	12.2
4	#13990.00	50.1 AV	68.2	-18.1	2.55 H	167	37.9	12.2
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	*6995.00	122.2 PK			2.14 V	259	74.6	47.6
2	*6995.00	114.3 AV			2.14 V	259	66.7	47.6
3	#13990.00	65.9 PK	88.2	-22.3	2.55 V	157	53.7	12.2
4	#13990.00	51.4 AV	68.2	-16.8	2.55 V	157	39.2	12.2

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 229：7095 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	*7095.00	117.0 PK			1.33 H	196	68.8	48.2
2	*7095.00	107.6 AV			1.33 H	196	59.4	48.2
3	#7125.00	68.0 PK	88.2	-20.2	1.33 H	196	58.1	9.9
4	#7125.00	50.1 AV	68.2	-18.1	1.33 H	196	40.2	9.9
5	#14190.00	66.9 PK	88.2	-21.3	1.72 H	211	53.6	13.3
6	#14190.00	51.7 AV	68.2	-16.5	1.72 H	211	38.4	13.3
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	*7095.00	119.1 PK			2.29 V	244	70.9	48.2
2	*7095.00	109.7 AV			2.29 V	244	61.5	48.2
3	#7125.00	68.4 PK	88.2	-19.8	2.29 V	244	58.5	9.9
4	#7125.00	50.8 AV	68.2	-17.4	2.29 V	244	40.9	9.9
5	#14190.00	67.4 PK	88.2	-20.8	2.55 V	125	54.1	13.3
6	#14190.00	52.5 AV	68.2	-15.7	2.55 V	125	39.2	13.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 9：5995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	58.6 PK	88.2	-29.6	2.48 H	204	54.1	4.5
2	#5925.00	51.3 AV	68.2	-16.9	2.48 H	204	46.8	4.5
3	*5995.00	118.9 PK			2.48 H	204	76.8	42.1
4	*5995.00	108.1 AV			2.48 H	204	66.0	42.1
5	11990.00	63.5 PK	74.0	-10.5	2.25 H	188	53.5	10.0
6	11990.00	48.1 AV	54.0	-5.9	2.25 H	188	38.1	10.0
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	#5925.00	58.7 PK	88.2	-29.5	1.44 V	353	54.2	4.5
2	#5925.00	45.3 AV	68.2	-22.9	1.44 V	353	40.8	4.5
3	*5995.00	119.0 PK			1.44 V	353	76.9	42.1
4	*5995.00	108.2 AV			1.44 V	353	66.1	42.1
5	11990.00	63.6 PK	74.0	-10.4	2.51 V	188	53.6	10.0
6	11990.00	47.2 AV	54.0	-6.8	2.51 V	188	37.2	10.0

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 93：6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	117.1 PK			1.19 H	157	71.7	45.4
2	*6415.00	106.3 AV			1.19 H	157	60.9	45.4
3	#12830.00	64.2 PK	88.2	-24.0	2.22 H	184	53.3	10.9
4	#12830.00	49.3 AV	68.2	-18.9	2.22 H	184	38.4	10.9
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	*6415.00	120.3 PK			1.00 V	267	74.9	45.4
2	*6415.00	109.6 AV			1.00 V	267	64.2	45.4
3	#12830.00	65.1 PK	88.2	-23.1	1.66 V	247	54.2	10.9
4	#12830.00	50.4 AV	68.2	-17.8	1.66 V	247	39.5	10.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 97：6435 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	115.8 PK			2.22 H	215	70.2	45.6
2	*6435.00	106.1 AV			2.22 H	215	60.5	45.6
3	#12870.00	64.3 PK	88.2	-23.9	2.25 H	111	53.6	10.7
4	#12870.00	49.1 AV	68.2	-19.1	2.25 H	111	38.4	10.7
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	*6435.00	120.2 PK			1.15 V	261	74.6	45.6
2	*6435.00	110.0 AV			1.15 V	261	64.4	45.6
3	#12870.00	65.0 PK	88.2	-23.2	2.44 V	0	54.3	10.7
4	#12870.00	50.2 AV	68.2	-18.0	2.44 V	0	39.5	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 113：6515 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	117.6 PK			1.36 H	155	71.8	45.8
2	*6515.00	106.3 AV			1.36 H	155	60.5	45.8
3	#13030.00	63.9 PK	88.2	-24.3	2.25 H	184	53.2	10.7
4	#13030.00	49.2 AV	68.2	-19.0	2.25 H	184	38.5	10.7
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	*6515.00	120.1 PK			1.00 V	267	74.3	45.8
2	*6515.00	109.6 AV			1.00 V	267	63.8	45.8
3	#13030.00	65.0 PK	88.2	-23.2	1.99 V	175	54.3	10.7
4	#13030.00	50.1 AV	68.2	-18.1	1.99 V	175	39.4	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 117：6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	116.1 PK			1.55 H	211	70.2	45.9
2	*6535.00	106.7 AV			1.55 H	211	60.8	45.9
3	#13070.00	63.8 PK	88.2	-24.4	2.22 H	175	53.2	10.6
4	#13070.00	49.0 AV	68.2	-19.2	2.22 H	175	38.4	10.6
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	*6535.00	120.0 PK			1.00 V	272	74.1	45.9
2	*6535.00	109.4 AV			1.00 V	272	63.5	45.9
3	#13070.00	64.7 PK	88.2	-23.5	2.35 V	188	54.1	10.6
4	#13070.00	49.9 AV	68.2	-18.3	2.35 V	188	39.3	10.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 185：6875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	117.4 PK			1.22 H	197	70.8	46.6
2	*6875.00	106.7 AV			1.22 H	197	60.1	46.6
3	#13750.00	65.5 PK	88.2	-22.7	2.41 H	175	53.6	11.9
4	#13750.00	50.4 AV	68.2	-17.8	2.41 H	175	38.5	11.9
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	*6875.00	121.1 PK			2.69 V	276	74.5	46.6
2	*6875.00	109.9 AV			2.69 V	276	63.3	46.6
3	#13750.00	66.4 PK	88.2	-21.8	1.87 V	211	54.5	11.9
4	#13750.00	51.4 AV	68.2	-16.8	1.87 V	211	39.5	11.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 209：6995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	121.0 PK			2.02 H	264	73.4	47.6
2	*6995.00	110.1 AV			2.02 H	264	62.5	47.6
3	#13990.00	64.9 PK	88.2	-23.3	2.47 H	166	52.7	12.2
4	#13990.00	50.0 AV	68.2	-18.2	2.47 H	166	37.8	12.2
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	*6995.00	121.1 PK			2.70 V	282	73.5	47.6
2	*6995.00	110.2 AV			2.70 V	282	62.6	47.6
3	#13990.00	65.8 PK	88.2	-22.4	2.41 V	184	53.6	12.2
4	#13990.00	51.1 AV	68.2	-17.1	2.41 V	184	38.9	12.2

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 229：7095 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	*7095.00	116.3 PK			1.00 H	197	68.1	48.2
2	*7095.00	105.3 AV			1.00 H	197	57.1	48.2
3	#7125.00	67.5 PK	88.2	-20.7	1.00 H	197	57.6	9.9
4	#7125.00	50.9 AV	68.2	-17.3	1.00 H	197	41.0	9.9
5	#14190.00	66.8 PK	88.2	-21.4	2.14 H	188	53.5	13.3
6	#14190.00	51.7 AV	68.2	-16.5	2.14 H	188	38.4	13.3
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	*7095.00	117.5 PK			2.14 V	278	69.3	48.2
2	*7095.00	69.2 PK			2.14 V	278	59.4	9.8
3	*7095.00	106.4 AV			2.14 V	278	58.2	48.2
4	*7095.00	50.7 AV			2.14 V	278	40.9	9.8
5	#14190.00	67.5 PK	88.2	-20.7	2.55 V	147	54.2	13.3
6	#14190.00	52.4 AV	68.2	-15.8	2.55 V	147	39.1	13.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 9：5995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	59.2 PK	88.2	-29.0	2.22 H	211	54.7	4.5
2	#5925.00	45.4 AV	68.2	-22.8	2.22 H	211	40.9	4.5
3	*5995.00	116.7 PK			2.22 H	211	74.6	42.1
4	*5995.00	105.4 AV			2.22 H	211	63.3	42.1
5	11990.00	63.4 PK	74.0	-10.6	1.53 H	182	53.4	10.0
6	11990.00	47.8 AV	54.0	-6.2	1.53 H	182	37.8	10.0
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	#5925.00	58.8 PK	88.2	-29.4	1.03 V	263	54.3	4.5
2	#5925.00	45.1 AV	68.2	-23.1	1.03 V	263	40.6	4.5
3	*5995.00	116.9 PK			1.03 V	263	74.8	42.1
4	*5995.00	105.6 AV			1.03 V	263	63.5	42.1
5	11990.00	63.5 PK	74.0	-10.5	2.32 V	157	53.5	10.0
6	11990.00	47.1 AV	54.0	-6.9	2.32 V	157	37.1	10.0

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 93：6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	115.5 PK			1.16 H	159	70.1	45.4
2	*6415.00	103.7 AV			1.16 H	159	58.3	45.4
3	#12830.00	64.1 PK	88.2	-24.1	2.54 H	235	53.2	10.9
4	#12830.00	49.2 AV	68.2	-19.0	2.54 H	235	38.3	10.9
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	*6415.00	115.6 PK			1.13 V	282	70.2	45.4
2	*6415.00	103.9 AV			1.13 V	282	58.5	45.4
3	#12830.00	64.0 PK	88.2	-24.2	2.34 V	221	53.1	10.9
4	#12830.00	49.0 AV	68.2	-19.2	2.34 V	221	38.1	10.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 97：6435 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	115.2 PK			1.02 H	260	69.6	45.6
2	*6435.00	104.4 AV			1.02 H	260	58.8	45.6
3	#12870.00	64.2 PK	88.2	-24.0	2.24 H	153	53.5	10.7
4	#12870.00	49.0 AV	68.2	-19.2	2.24 H	153	38.3	10.7
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	*6435.00	115.3 PK			1.01 V	267	69.7	45.6
2	*6435.00	104.5 AV			1.01 V	267	58.9	45.6
3	#12870.00	64.1 PK	88.2	-24.1	1.53 V	193	53.4	10.7
4	#12870.00	48.9 AV	68.2	-19.3	1.53 V	193	38.2	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 113：6515 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	115.7 PK			1.01 H	158	69.9	45.8
2	*6515.00	104.3 AV			1.01 H	158	58.5	45.8
3	#13030.00	63.8 PK	88.2	-24.4	1.78 H	245	53.1	10.7
4	#13030.00	49.1 AV	68.2	-19.1	1.78 H	245	38.4	10.7
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	*6515.00	115.8 PK			1.02 V	282	70.0	45.8
2	*6515.00	104.4 AV			1.02 V	282	58.6	45.8
3	#13030.00	63.7 PK	88.2	-24.5	2.04 V	115	53.0	10.7
4	#13030.00	49.0 AV	68.2	-19.2	2.04 V	115	38.3	10.7

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 117：6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	115.6 PK			1.02 H	263	69.7	45.9
2	*6535.00	104.0 AV			1.02 H	263	58.1	45.9
3	#13070.00	63.7 PK	88.2	-24.5	1.35 H	204	53.1	10.6
4	#13070.00	48.9 AV	68.2	-19.3	1.35 H	204	38.3	10.6
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	*6535.00	115.7 PK			1.00 V	281	69.8	45.9
2	*6535.00	104.1 AV			1.00 V	281	58.2	45.9
3	#13070.00	63.6 PK	88.2	-24.6	2.24 V	153	53.0	10.6
4	#13070.00	48.8 AV	68.2	-19.4	2.24 V	153	38.2	10.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 185：6875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	116.0 PK			2.47 H	261	69.4	46.6
2	*6875.00	104.3 AV			2.47 H	261	57.7	46.6
3	#13750.00	65.4 PK	88.2	-22.8	1.58 H	139	53.5	11.9
4	#13750.00	50.3 AV	68.2	-17.9	1.58 H	139	38.4	11.9
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	*6875.00	116.1 PK			1.38 V	314	69.5	46.6
2	*6875.00	104.4 AV			1.38 V	314	57.8	46.6
3	#13750.00	64.3 PK	88.2	-23.9	2.05 V	134	52.4	11.9
4	#13750.00	50.1 AV	68.2	-18.1	2.05 V	134	38.2	11.9

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 209：6995 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	118.9 PK			2.08 H	243	71.3	47.6
2	*6995.00	107.1 AV			2.08 H	243	59.5	47.6
3	#13990.00	64.7 PK	88.2	-23.5	1.42 H	130	52.5	12.2
4	#13990.00	49.8 AV	68.2	-18.4	1.42 H	130	37.6	12.2
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	*6995.00	119.0 PK			1.17 V	284	71.4	47.6
2	*6995.00	107.2 AV			1.17 V	284	59.6	47.6
3	#13990.00	64.4 PK	88.2	-23.8	2.01 V	114	52.2	12.2
4	#13990.00	49.6 AV	68.2	-18.6	2.01 V	114	37.4	12.2

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 229：7095 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	William Su		

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	*7095.00	113.7 PK			1.20 H	184	65.5	48.2
2	*7095.00	102.4 AV			1.20 H	184	54.2	48.2
3	#7125.00	68.2 PK	88.2	-20.0	1.20 H	184	58.3	9.9
4	#7125.00	51.4 AV	68.2	-16.8	1.20 H	184	41.5	9.9
5	#14190.00	66.7 PK	88.2	-21.5	1.63 H	208	53.4	13.3
6	#14190.00	51.5 AV	68.2	-16.7	1.63 H	208	38.2	13.3
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	*7095.00	113.8 PK			2.13 V	220	65.6	48.2
2	*7095.00	102.5 AV			2.13 V	220	54.3	48.2
3	#7125.00	66.2 PK	88.2	-22.0	2.13 V	220	56.3	9.9
4	#7125.00	51.2 AV	68.2	-17.0	2.13 V	220	41.3	9.9
5	#14190.00	66.4 PK	88.2	-21.8	1.23 V	181	53.1	13.3
6	#14190.00	51.3 AV	68.2	-16.9	1.23 V	181	38.0	13.3

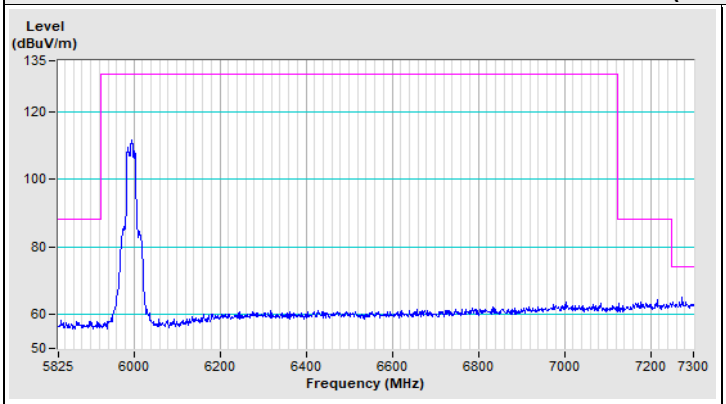
Remarks:

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

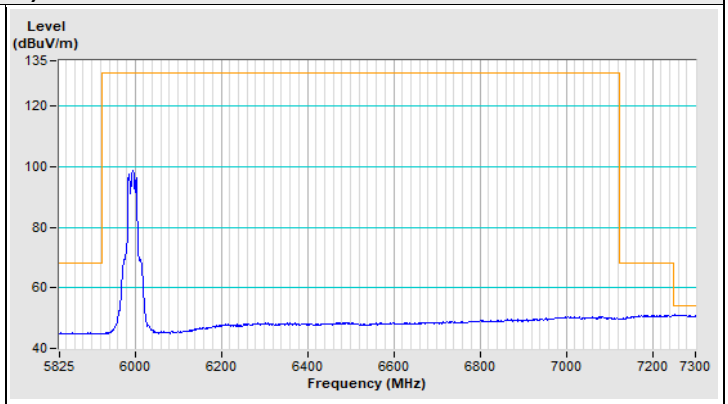
Plot of Band Edge

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

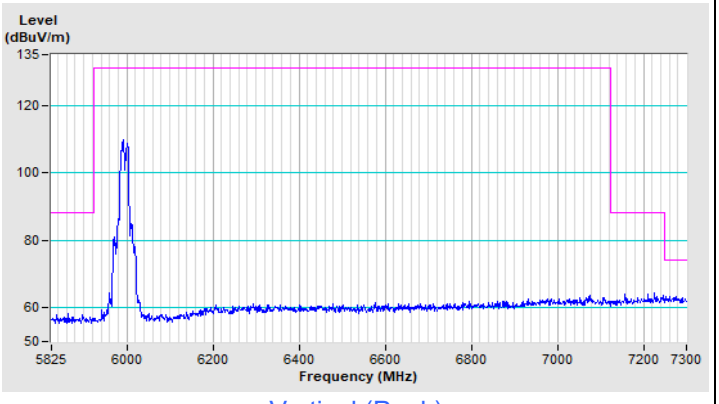
802.11ax (HE20) Channel 9



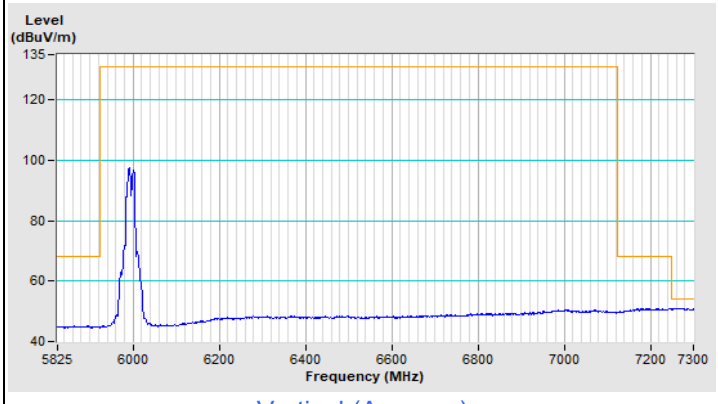
Horizontal (Peak)



Horizontal (Average)

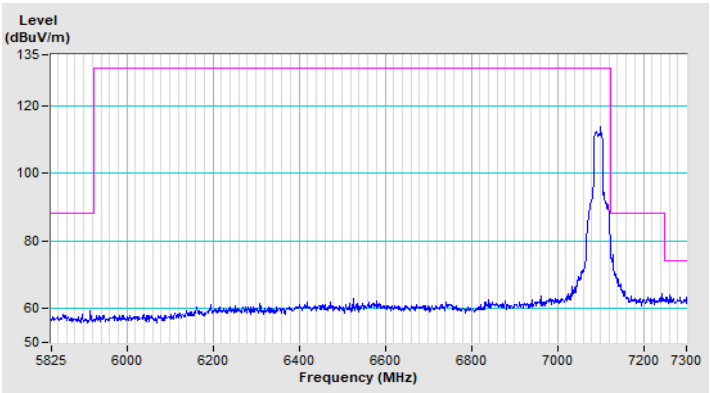


Vertical (Peak)

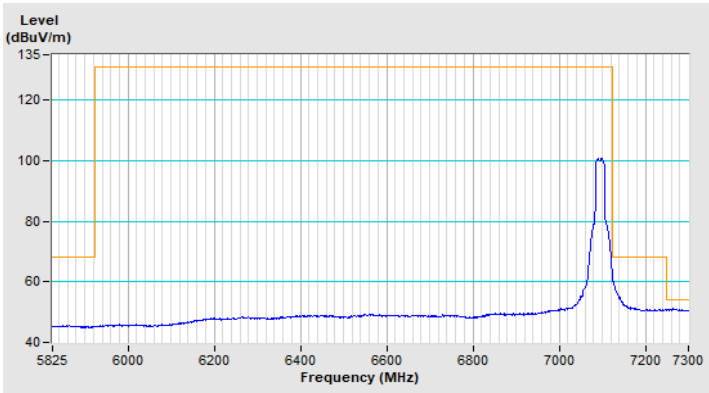


Vertical (Average)

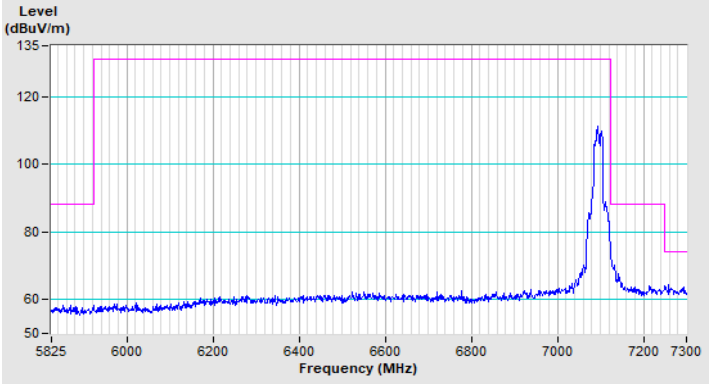
802.11ax (HE20) Channel 229



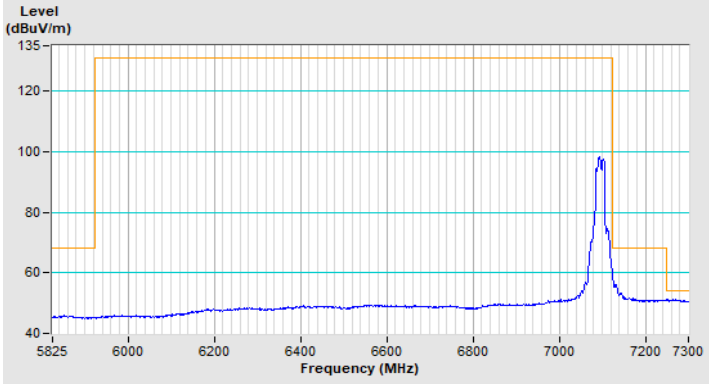
Horizontal (Peak)



Horizontal (Average)



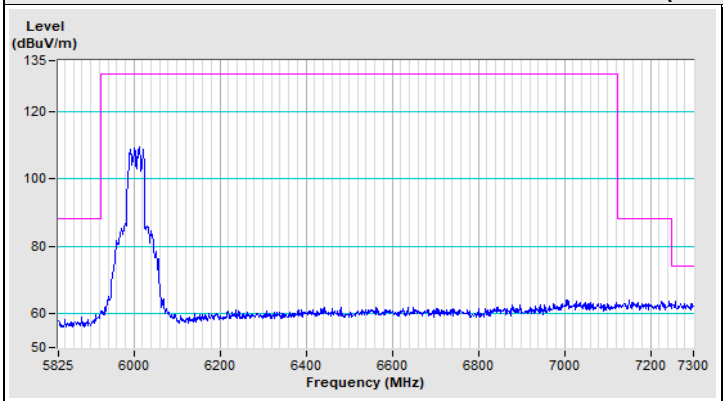
Vertical (Peak)



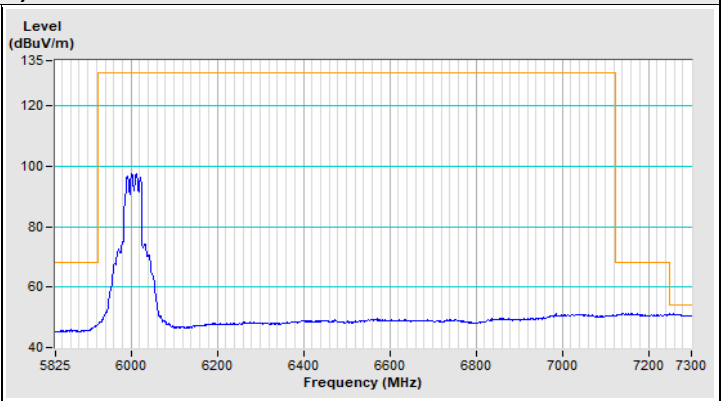
Vertical (Average)

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

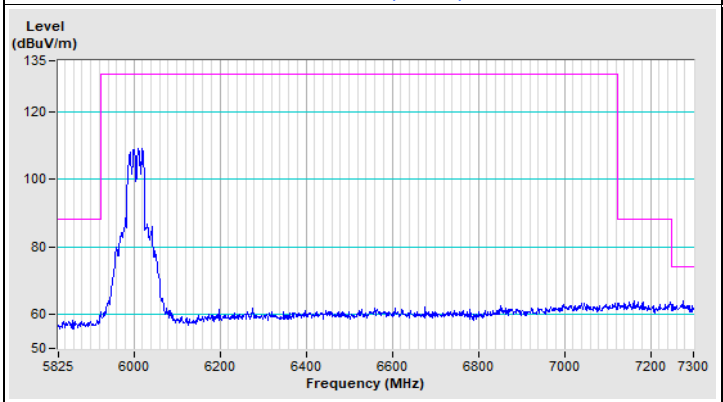
802.11ax (HE40) Channel 11



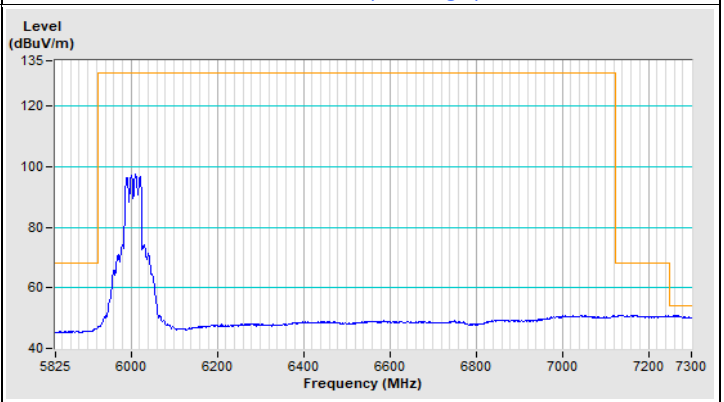
Horizontal (Peak)



Horizontal (Average)

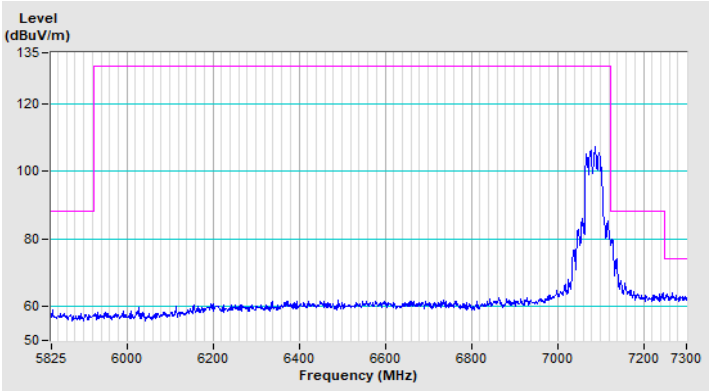


Vertical (Peak)

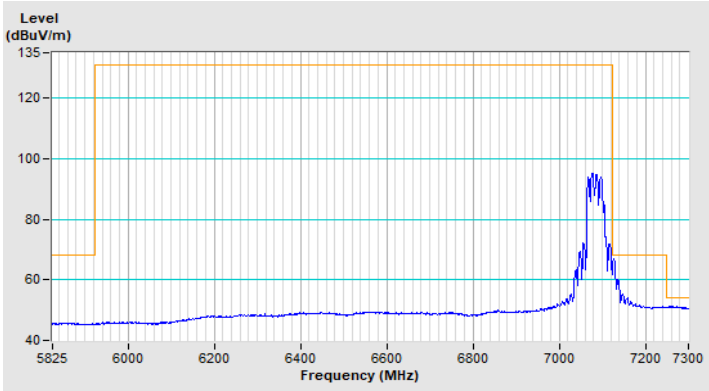


Vertical (Average)

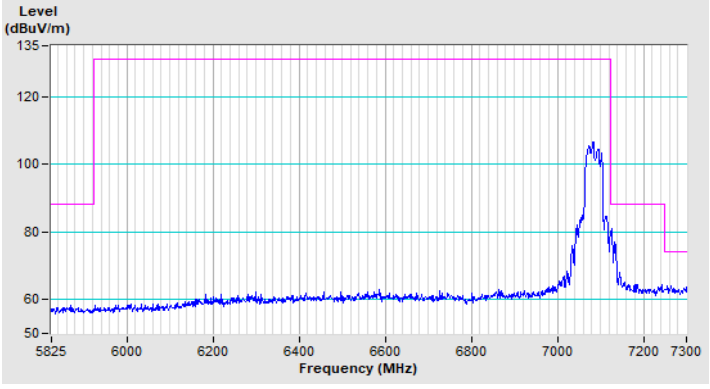
802.11ax (HE40) Channel 227



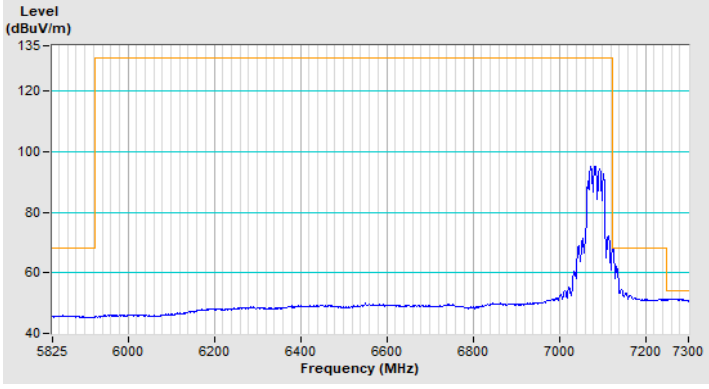
Horizontal (Peak)



Horizontal (Average)



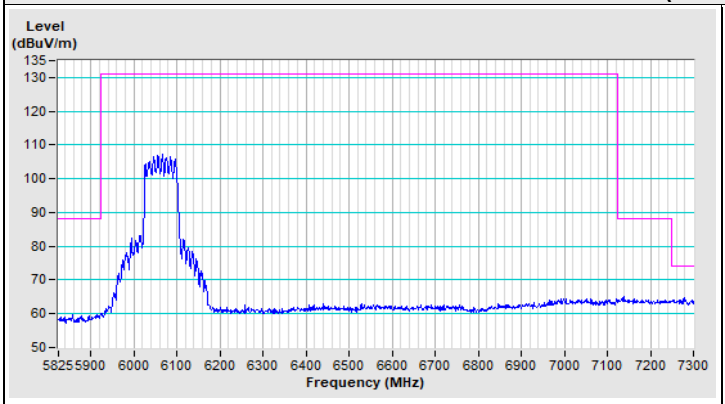
Vertical (Peak)



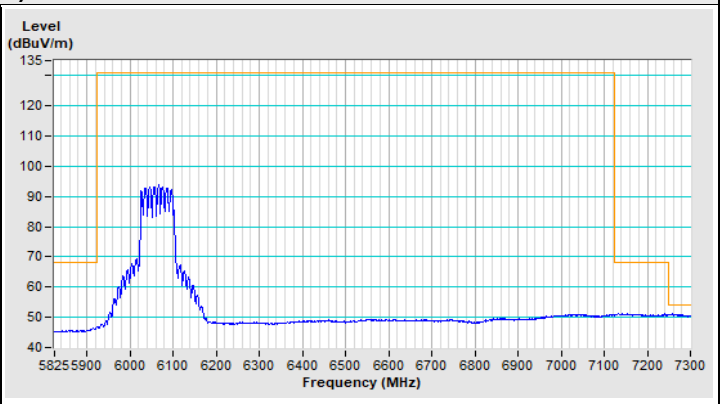
Vertical (Average)

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

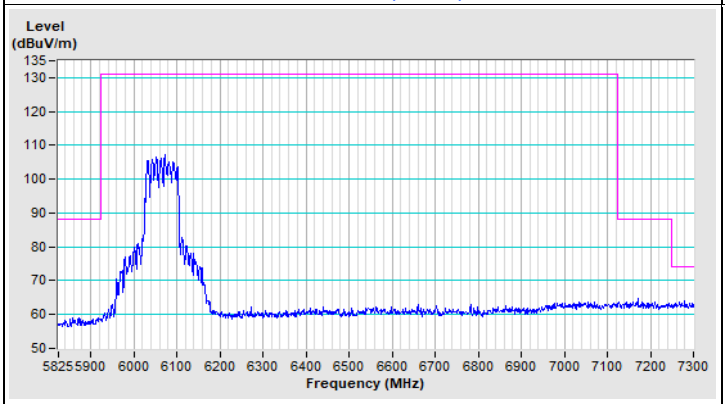
802.11ax (HE80) Channel 23



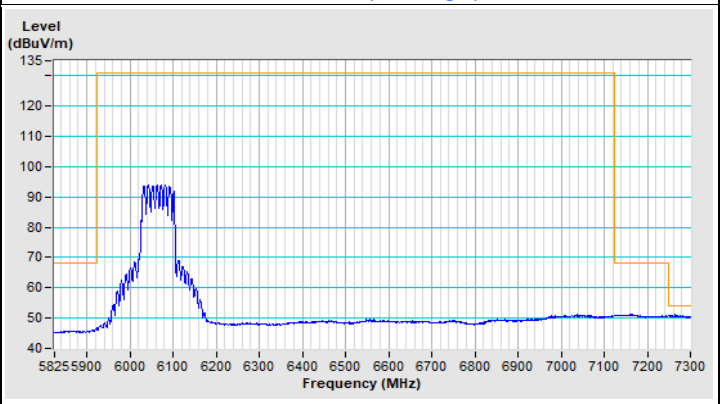
Horizontal (Peak)



Horizontal (Average)

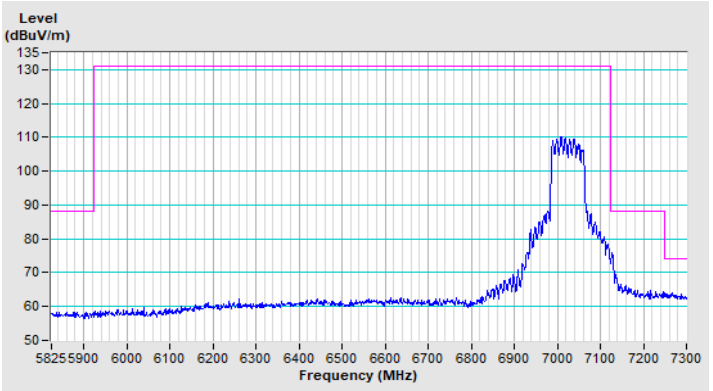


Vertical (Peak)

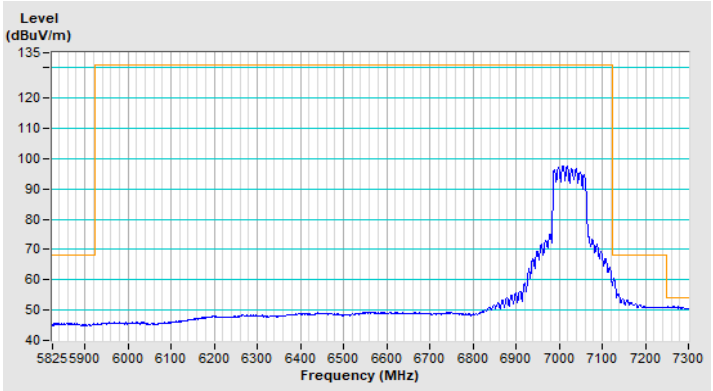


Vertical (Average)

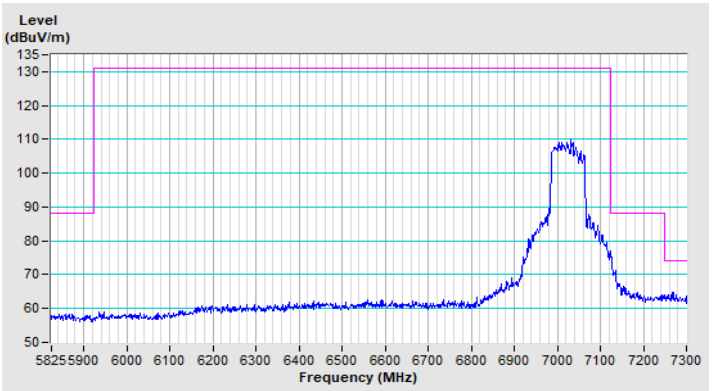
802.11ax (HE80) Channel 215



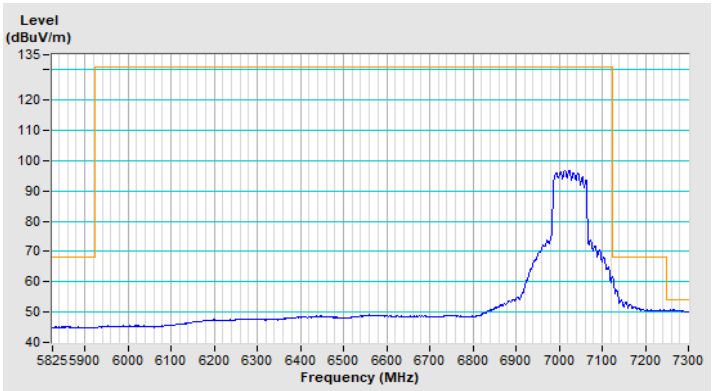
Horizontal (Peak)



Horizontal (Average)



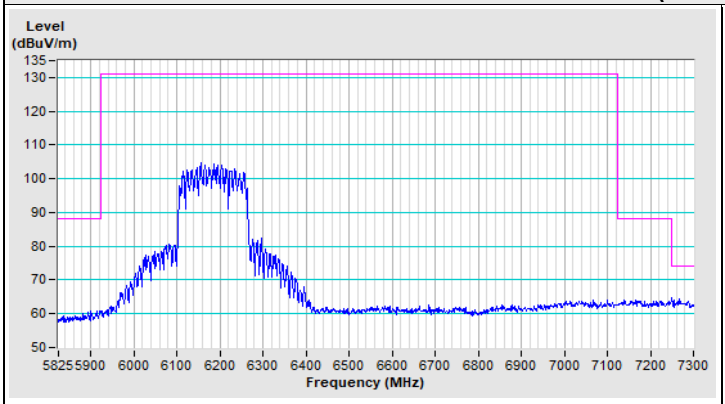
Vertical (Peak)



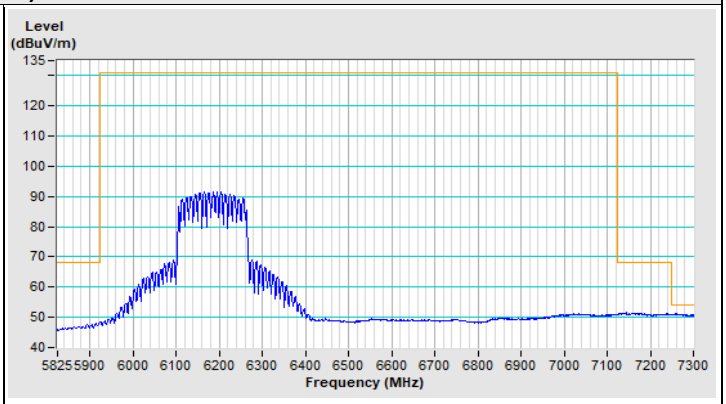
Vertical (Average)

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

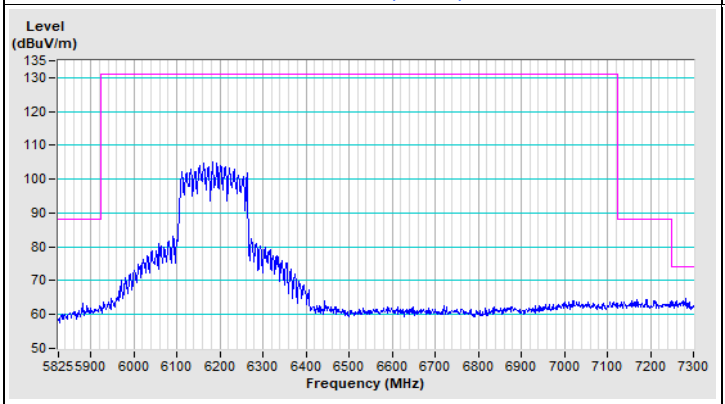
802.11ax (HE160) Channel 47



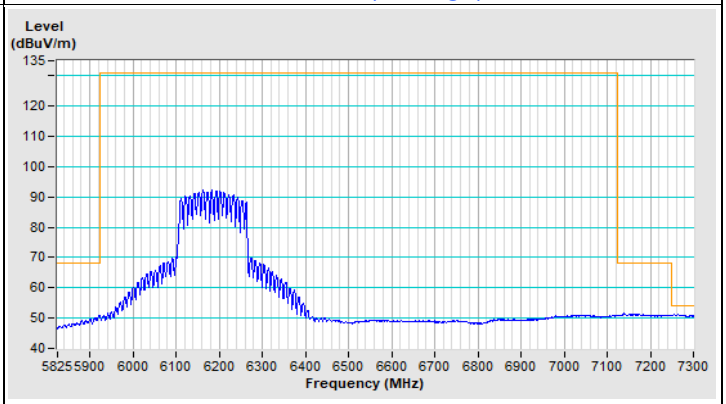
Horizontal (Peak)



Horizontal (Average)

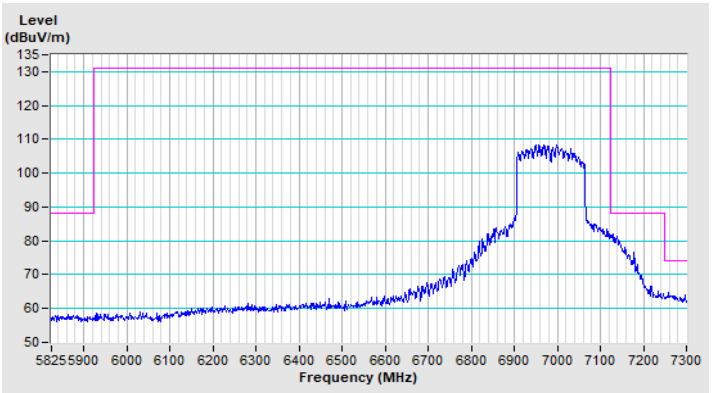


Vertical (Peak)

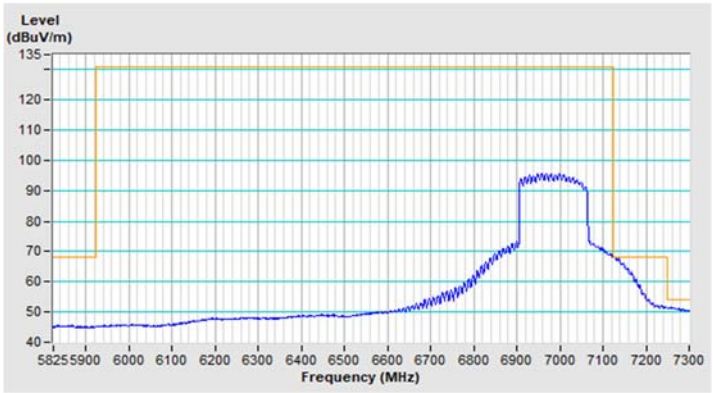


Vertical (Average)

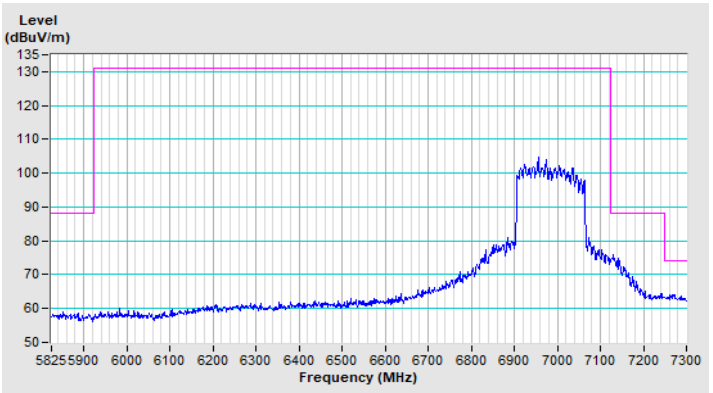
802.11ax (HE160) Channel 207



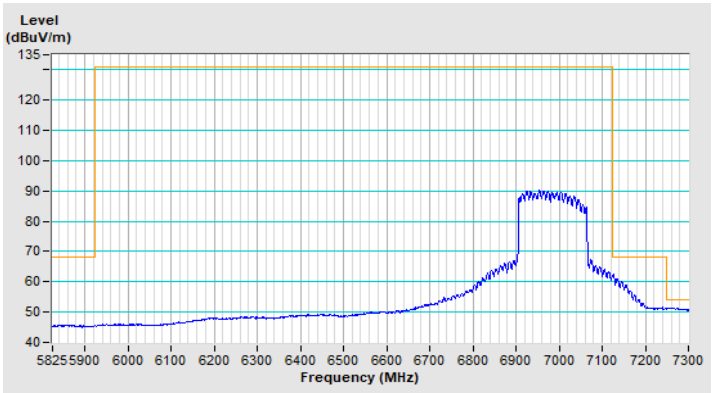
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

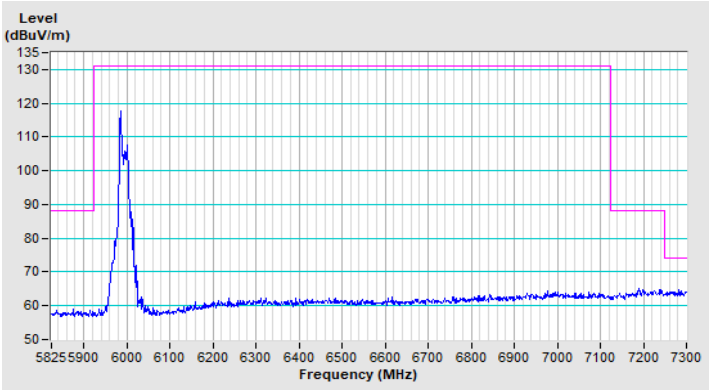


Vertical (Average)

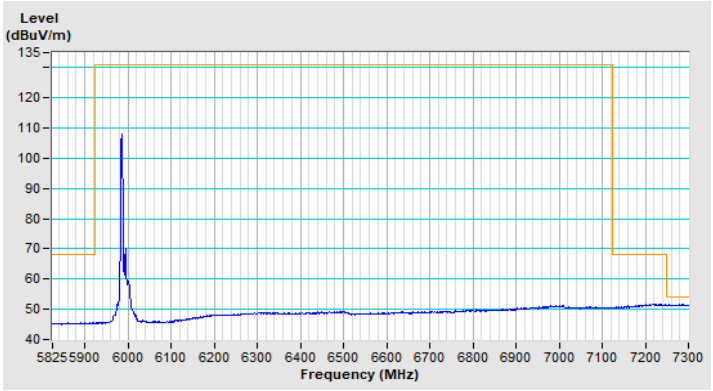
Partial RU Plot of Band Edge

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

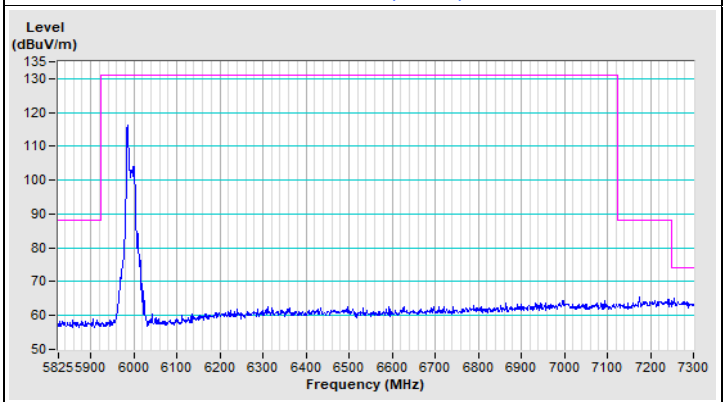
802.11ax (HE20) 26-tone RU Channel 9



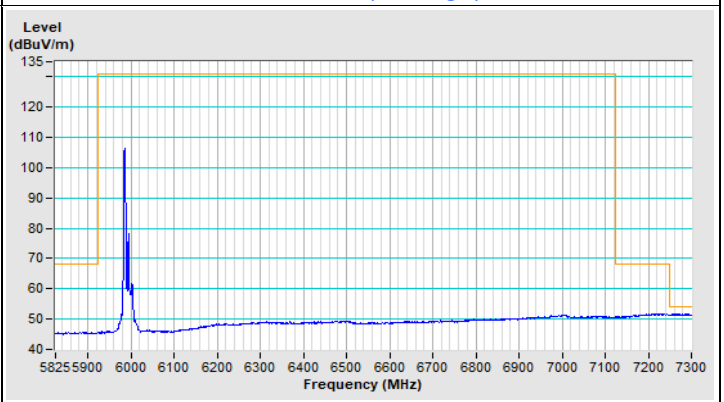
Horizontal (Peak)



Horizontal (Average)

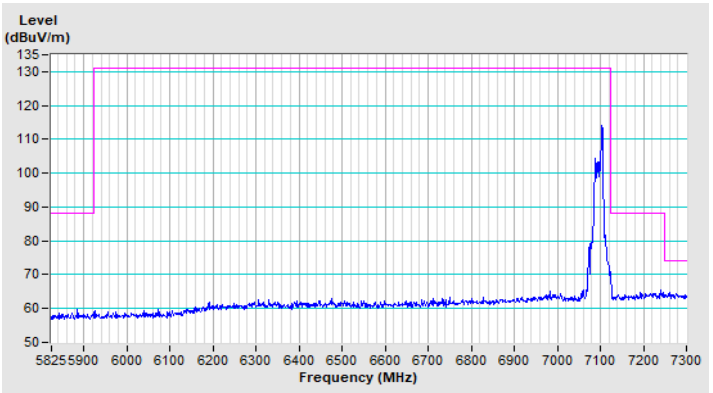


Vertical (Peak)

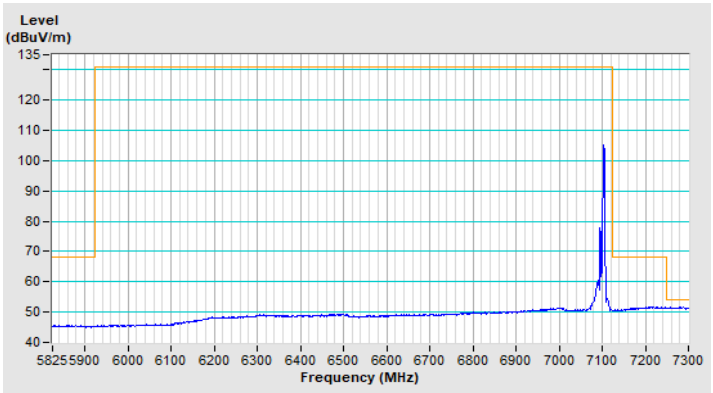


Vertical (Average)

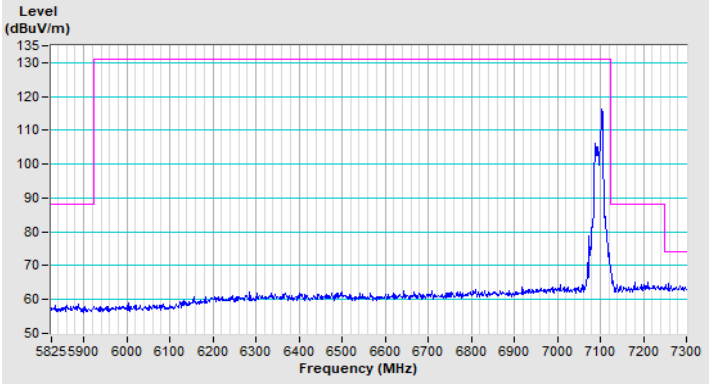
802.11ax (HE20) 26-tone RU Channel 229



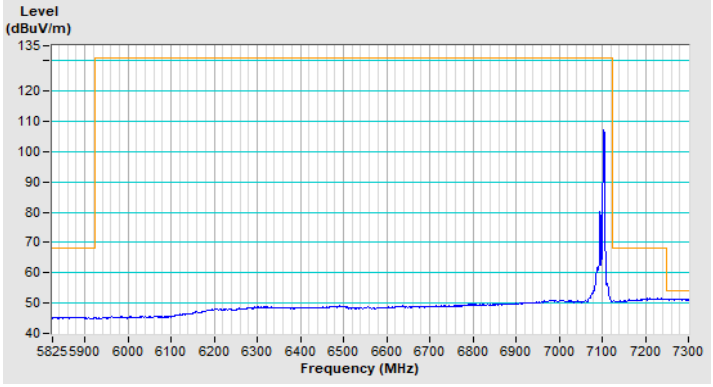
Horizontal (Peak)



Horizontal (Average)



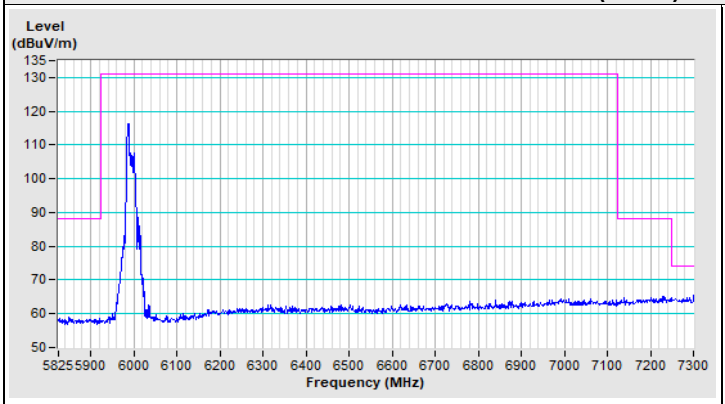
Vertical (Peak)



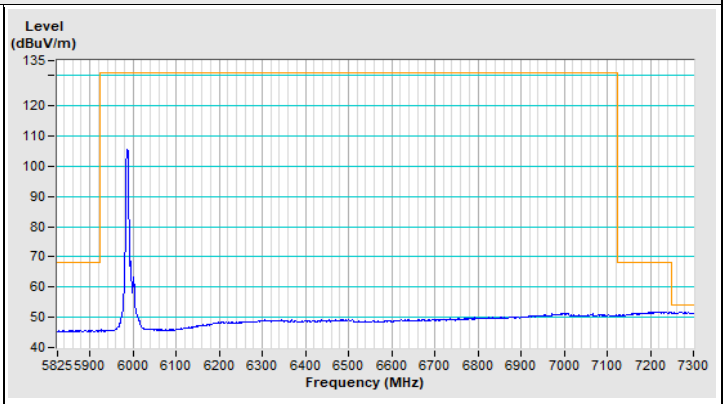
Vertical (Average)

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

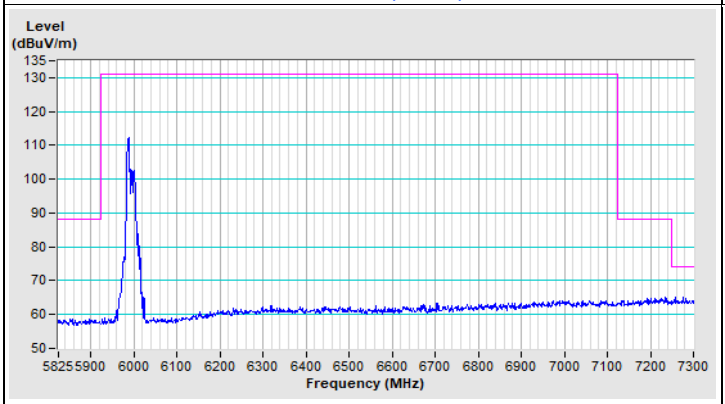
802.11ax (HE20) 52-tone RU Channel 9



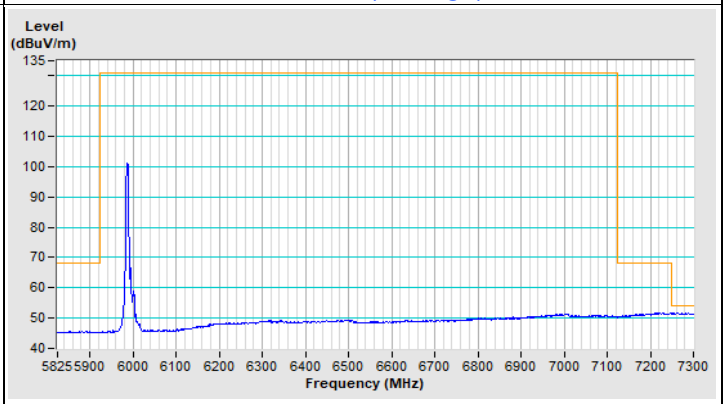
Horizontal (Peak)



Horizontal (Average)

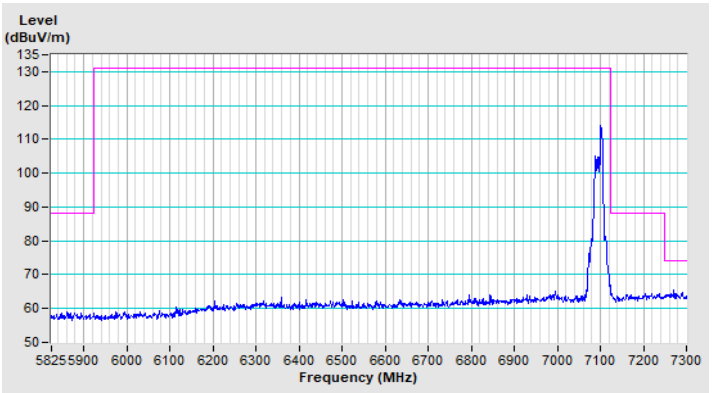


Vertical (Peak)

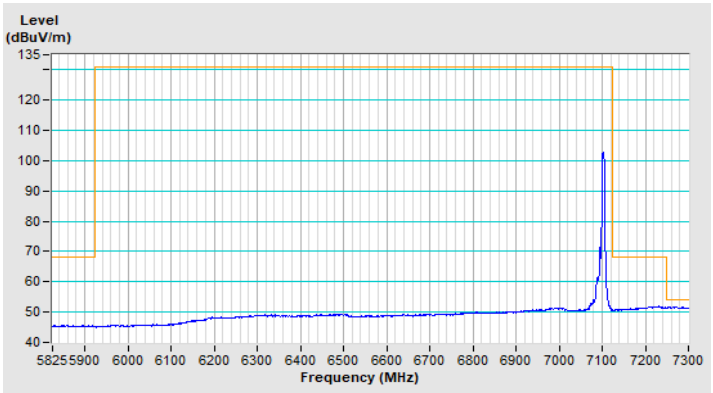


Vertical (Average)

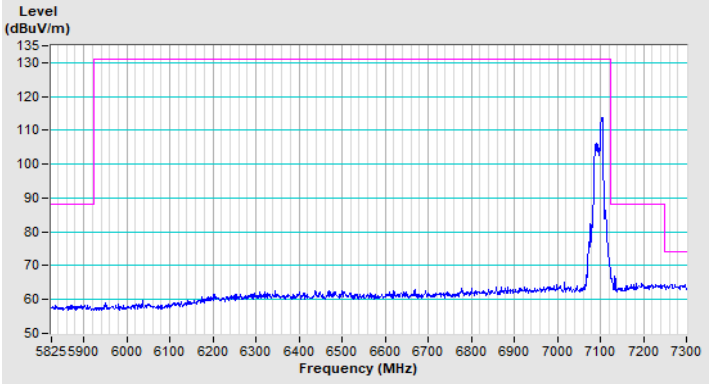
802.11ax (HE20) 52-tone RU Channel 229



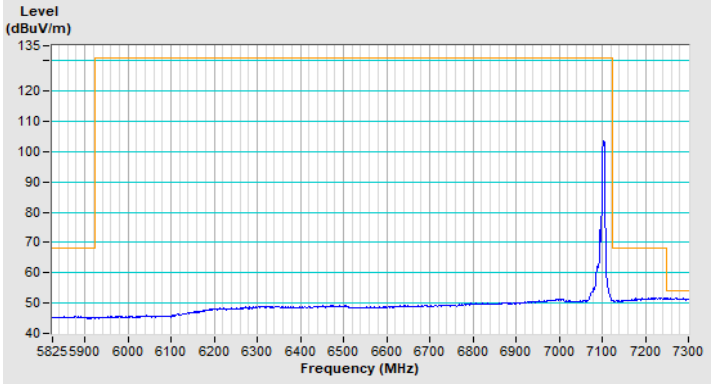
Horizontal (Peak)



Horizontal (Average)



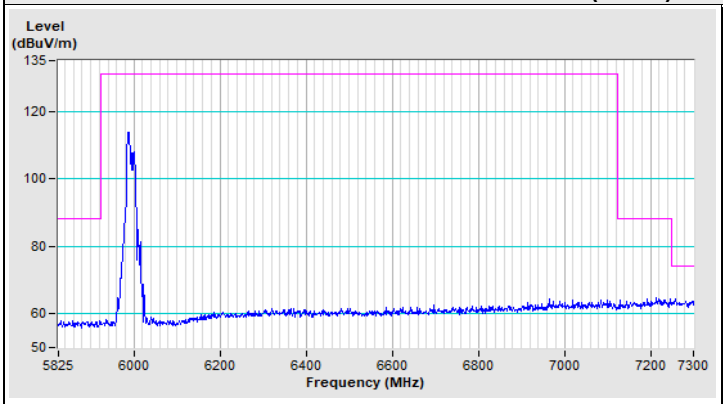
Vertical (Peak)



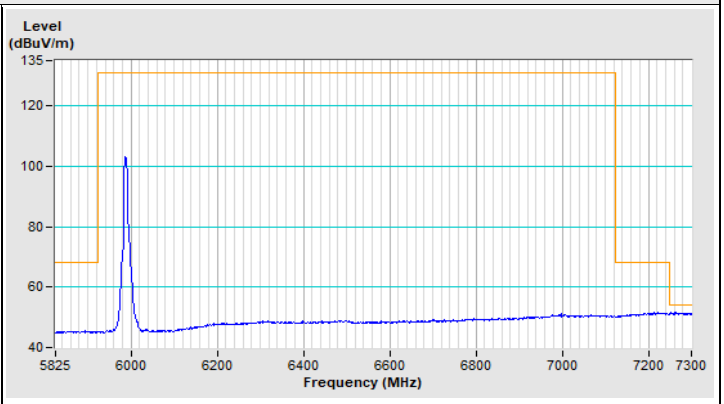
Vertical (Average)

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

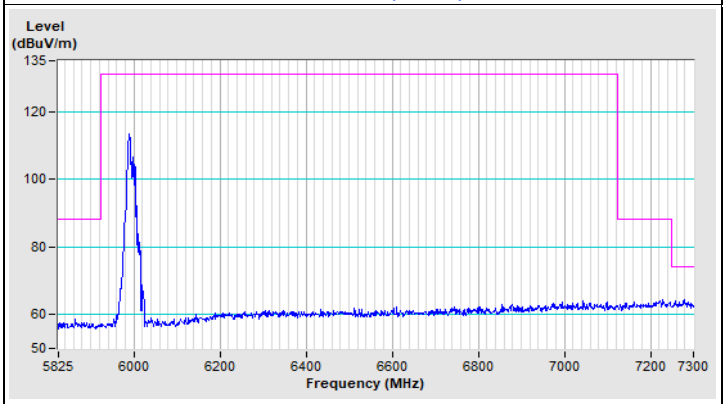
802.11ax (HE20) 106-tone RU Channel 9



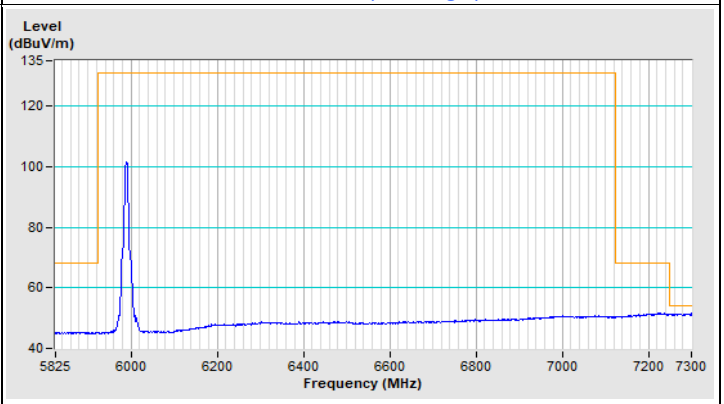
Horizontal (Peak)



Horizontal (Average)

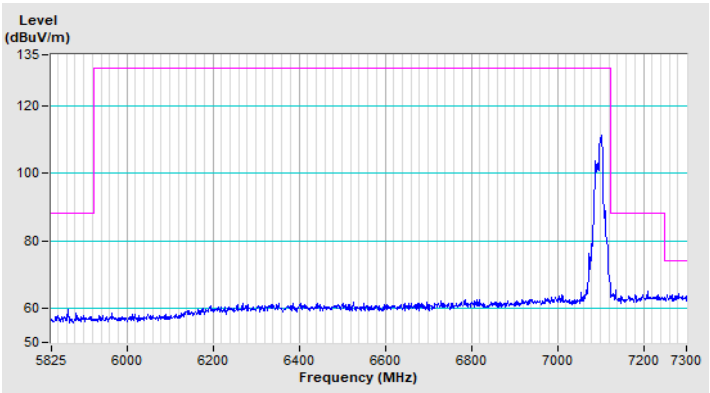


Vertical (Peak)

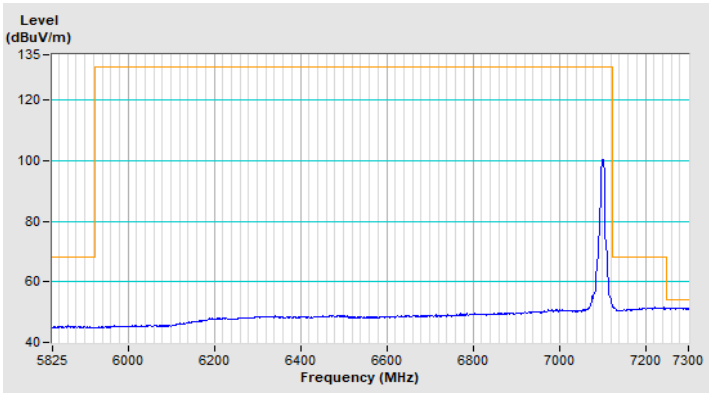


Vertical (Average)

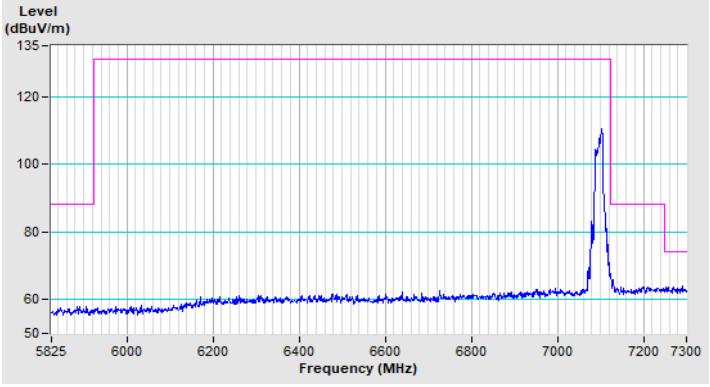
802.11ax (HE20) 106-tone RU Channel 229



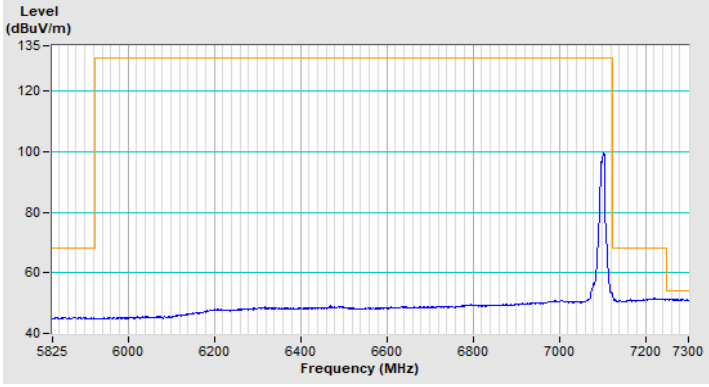
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

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