

FCC Test Report

Report No.: RF200814E08-5

FCC ID: RAS-MT7921K

Test Model: MT7921K

Received Date: Aug. 14, 2020

Test Date: Sep. 18 to Oct. 15, 2020

Issued Date: Oct. 16, 2020

Applicant: MediaTek Inc.

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF200814E08-5	Original release.	Oct. 16, 2020

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7921K

Sample Status: ENGINEERING SAMPLE

Applicant: MediaTek Inc.

Test Date: Sep. 18 to Oct. 15, 2020

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

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

Prepared by : Vivian Huang , **Date:** Oct. 16, 2020
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** Oct. 16, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -11.2dB at 25.87109MHz.
15.407(b)(5)(8)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.2dB at 7125.00MHz.
15.407(b)(6)	In-Band Emission (Mask)	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	PASS	Meet the requirement of limit.
15.407(a)(4/5/6/7/8)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407 (d)(6)	Contention-based Protocol.	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.407(a)(7)(8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	PASS	Declaration by applicant
15.203	Antenna Requirement	PASS	Antenna connector is R-SMA or i-pex(MHF) not a standard connector.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	3.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.4 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7921K
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz 6GHz: 5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 6GHz: 802.11ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14
Output Power	2.412 ~ 2.472 GHz: 815.903 mW 5.18 ~ 5.24 GHz: 143.816 mW 5.26 ~ 5.32GHz: 147.866 mW 5.5 ~ 5.72GHz: 156.514 mW 5.745 ~ 5.825 GHz: 193.138 mW 5.955 ~ 6.415GHz: 15.491 mW (EIRP: 15.21 dBm / 33.19 mW) 6.435 ~ 6.525GHz: 15.333 mW (EIRP: 15.17 dBm / 32.885 mW) 6.525 ~ 6.875GHz: 14.896 mW (EIRP: 15.04 dBm / 31.915 mW) 6.875 ~ 7.115GHz: 14.749 mW (EIRP: 15.00 dBm / 31.623 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz / 6GHz)	Bluetooth

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

2. The antennas provided to the EUT, please refer to the following table:

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
2	Chain0	PSA	RFMTA340718E MLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
	Chain1	PSA	RFMTA340718E MLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
3	Chain0	PSA	RFMTA311020E MMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020E MMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-

Note: Antenna Set 3 was tested for this WiFi 6E test report.

3. The EUT incorporates a MIMO function:

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
6GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note: The EUT doesn't support beamforming function.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
5. The above Antenna information is declared by manufacturer, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5925 ~ 6425MHz (U-NII-5 band)

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

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

12 channels are provided for 802.11ax (HE40):

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

6 channel is provided for 802.11ax (HE80):

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

FOR 6425 ~ 6525MHz (U-NII-6 band)

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

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

3 channels are provided for 802.11ax (HE40):

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

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
103	6465 MHz	*119	6545 MHz

FOR 6525 ~ 6875MHz (U-NII-7 band)

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

9 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
*187	6885 MHz						

4 channels are provided for 802.11ax (HE80):

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

FOR 6875 ~ 7125MHz (U-NII-8 band):

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
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

5 channels are provided for 802.11ax (HE40):

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

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

Note: * mean this's straddle channel.

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To						Description
	RE $\geq$ 1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	√	√	√	√	√	With PIFA antenna (Ant. Set 3)

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission
IBE: In-Band Emission (MASK)

RE<1G: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement
CBP: Contention Based Protocol

Note: The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission Measurement (Above 1GHz):

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5965-6405	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5985-6385	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0

Radiated Emission Measurement (Below 1GHz):

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	5985-6385 6465-6525 6525-6875 6875-7025	7 to 87 103 to 119 119 to 183 183 to 215	7	OFDMA	BPSK	MCS0

In-Band Emission (MASK) Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5965-6405	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5985-6385	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	5985-6385 6465-6525 6525-6875 6875-7025	7 to 87 103 to 119 119 to 183 183 to 215	7	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	185, 213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5965-6405	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6445 to 6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525 to 6885	115 to 187	115, 123, 155, 179, 187	OFDMA	BPSK	MCS0
	6885 to 7085	187 to 227	187, 211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5985-6385	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6875	119 to 183	119, 135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7025	183 to 215	183, 199, 215	OFDMA	BPSK	MCS0

Contention Based Protocol Measurement:

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1	OFDMA	BPSK	MCS0
	6435-6515	97 to 113	97	OFDMA	BPSK	MCS0
	6535-6875	117 to 185	153	OFDMA	BPSK	MCS0
	6875-7115	185 to 233	151	OFDMA	BPSK	MCS0
802.11ax (HE80)	5985-6385	7 to 87	7	OFDMA	BPSK	MCS0
	6465-6525	103 to 119	103	OFDMA	BPSK	MCS0
	6545-6865	119 to 183	213	OFDMA	BPSK	MCS0
	6855-7025	183 to 215	199	OFDMA	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	24deg. C, 68%RH	120Vac, 60Hz	Eric Peng
RE<1G	23deg. C, 66%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 67%RH	120Vac, 60Hz	Tom Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kevin Ko

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor is required

802.11ax (HE20): Duty cycle = 5.182 ms/5.77 ms= 0.898, Duty factor = $10 * \log(1 / \text{Duty cycle}) = 0.47 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.782 ms/4.482 ms= 0.844, Duty factor = $10 * \log(1 / \text{Duty cycle}) = 0.74 \text{ dB}$

802.11ax (HE80): Duty cycle = 1.841 ms/2.534 ms= 0.727, Duty factor = $10 * \log(1 / \text{Duty cycle}) = 1.39 \text{ dB}$



3.4 Description of Support Units

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

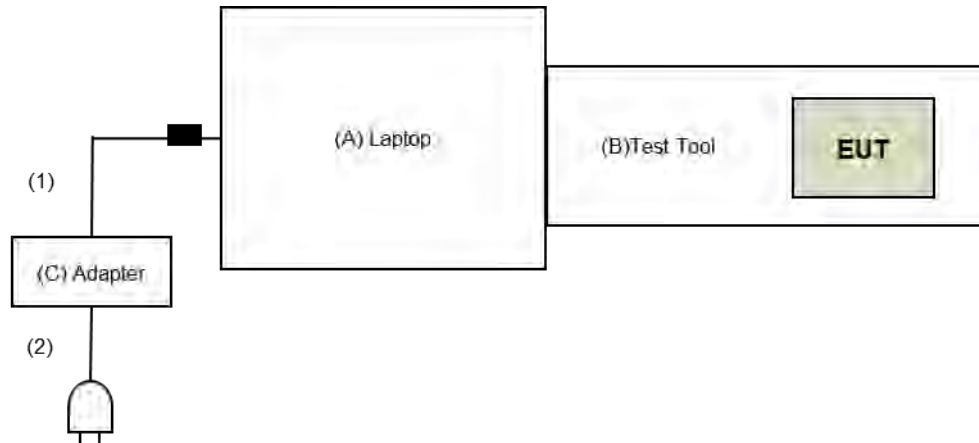
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	H7LYQ32	FCC DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by client
C.	Adapter	Dell	FA65NE0-00	NA	NA	Provided by Lab

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

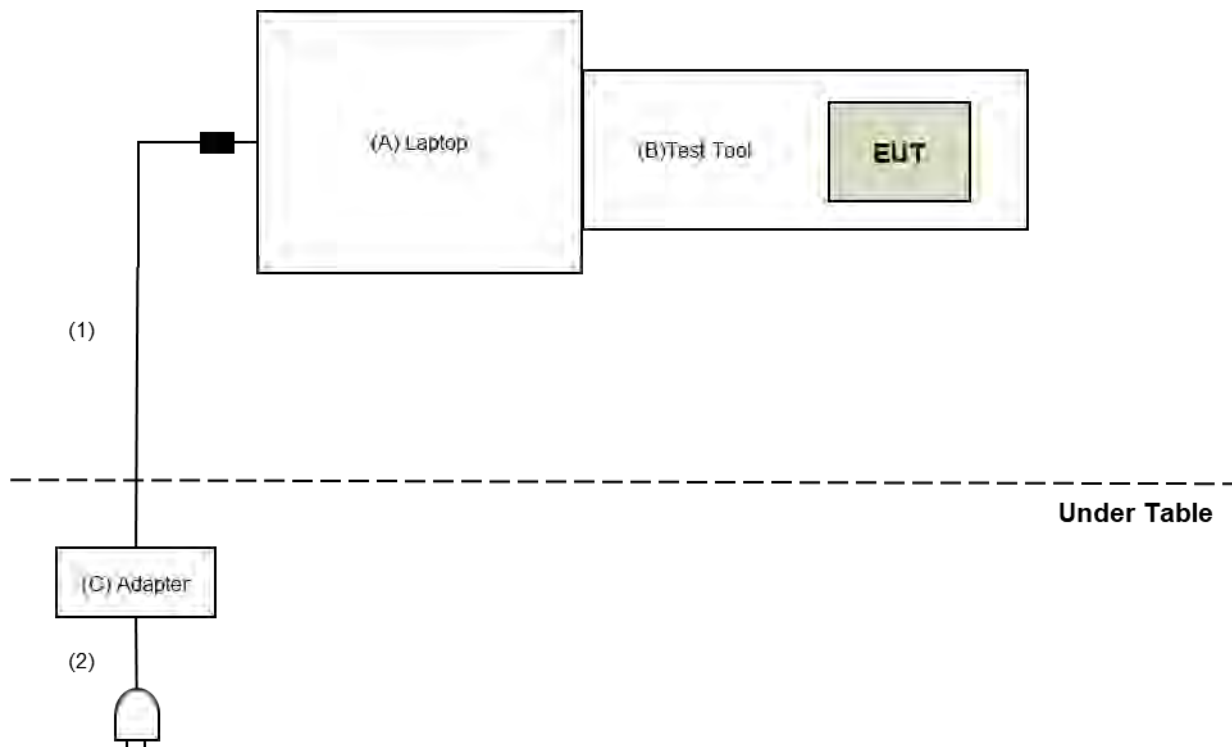
Note: The core is originally attached to the cable.

3.4.1 Configuration of System under Test

For Conducted Emissions test:



For Radiated Emissions test:



3.5 General Description of Applied Standard

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

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

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

References Test Guidance:

Draft KDB 987594 D02 EMC Measurement

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

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

Note:

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

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

4.1.2 Test Instruments

For Radiated emission & Bandedge test (for 802.11ax (HE80)):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 28, 2020	Apr. 27, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-3-1	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-2	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-3	Mar. 17, 2020	Mar. 16, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 26, 2019	Sep. 25, 2020
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: Sep. 18 to 25, 2020

For Radiated emission & Bandedge test (for 802.11ax (HE20), 802.11ax (HE40)):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMC	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMC	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: Oct. 15, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 16, 2020	Jan. 15, 2021
True RMS Clamp Meter FLUKE	325	31130711WS	June 06, 2020	June 05, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Sep. 28 to Oct. 08, 2020

4.1.3 Test Procedure

For Radiated emission below 30MHz

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

NOTE:

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

For Radiated emission above 30MHz

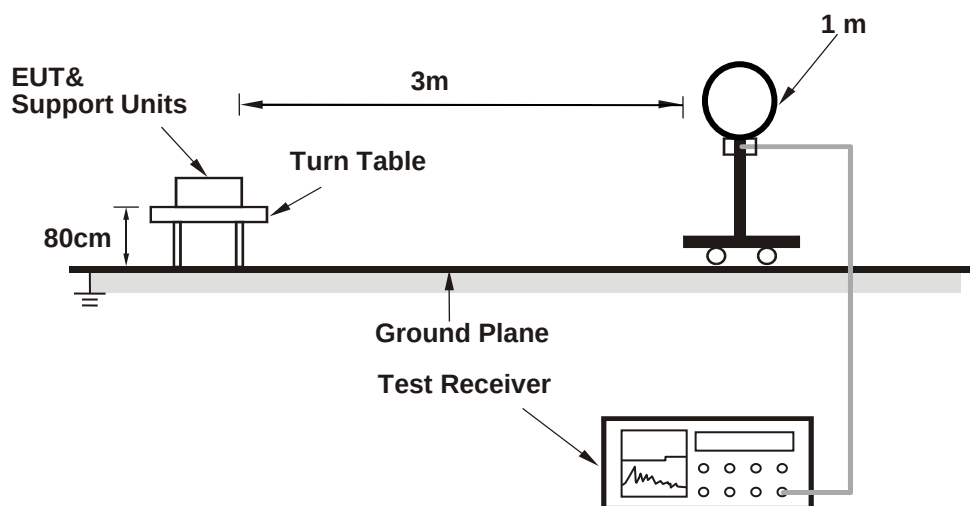
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak 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 RMS detector is unnecessary.

Note:

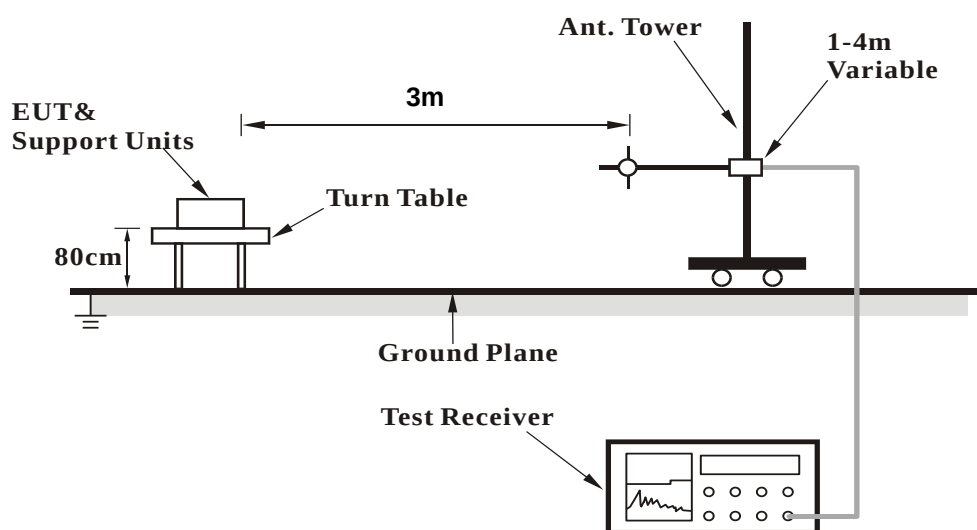
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Test Setup

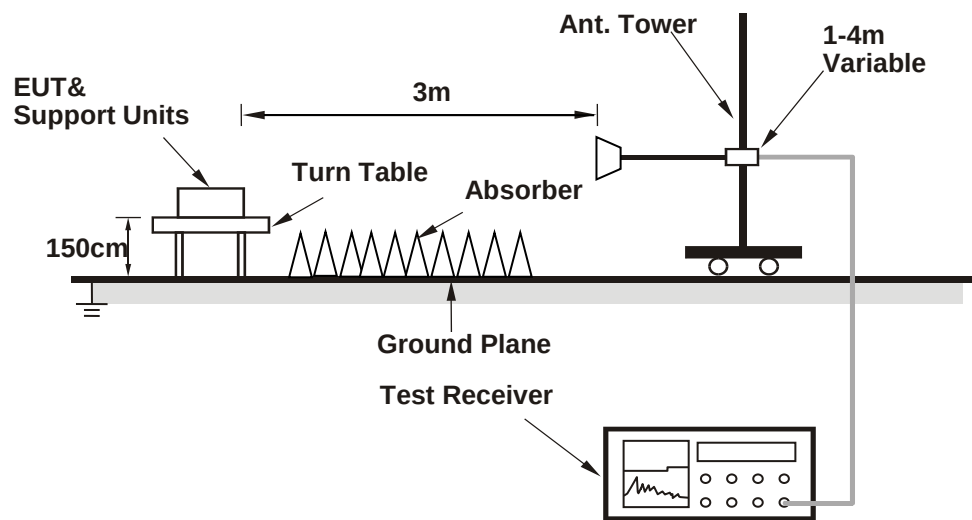
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.5 EUT Operating Condition

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (MT7961 QA0.0.2.33) has been activated to set the EUT under transmission condition continuously.

4.1.6 Test Results

Above 1GHz Data:

802.11ax (HE20)

RF Mode	TX Channel 1	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	#5890.73	51.1 PK	88.2	-37.1	1.81 H	351	46.2	4.9
2	#5890.73	40.7 AV	68.2	-27.5	1.81 H	351	35.8	4.9
3	#5925.00	50.9 PK	88.2	-37.3	1.81 H	351	46.0	4.9
4	#5925.00	40.8 AV	68.2	-27.4	1.81 H	351	35.9	4.9
5	*5955.00	97.3 PK			1.81 H	351	92.3	5.0
6	*5955.00	85.5 AV			1.81 H	351	80.5	5.0
7	11910.00	45.5 PK	74.0	-28.5	2.88 H	158	32.0	13.5
8	11910.00	35.9 AV	54.0	-18.1	2.88 H	158	22.4	13.5
9	17865.00	52.2 PK	74.0	-21.8	1.92 H	225	31.9	20.3
10	17865.00	40.3 AV	54.0	-13.7	1.92 H	225	20.0	20.3
11	23820.00	55.6 PK	74.0	-18.4	1.02 H	308	58.1	-2.5
12	23820.00	43.2 AV	54.0	-10.8	1.02 H	308	45.7	-2.5

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	#5890.73	53.3 PK	88.2	-34.9	2.81 V	308	48.4	4.9
2	#5890.73	40.3 AV	68.2	-27.9	2.81 V	308	35.4	4.9
3	#5925.00	53.2 PK	88.2	-35.0	2.81 V	308	48.3	4.9
4	#5925.00	40.9 AV	68.2	-27.3	2.81 V	308	36.0	4.9
5	*5955.00	93.8 PK			2.81 V	308	88.8	5.0
6	*5955.00	82.3 AV			2.81 V	308	77.3	5.0
7	11910.00	44.4 PK	74.0	-29.6	3.28 V	321	30.9	13.5
8	11910.00	35.3 AV	54.0	-18.7	3.28 V	321	21.8	13.5
9	17865.00	51.7 PK	74.0	-22.3	2.27 V	152	31.4	20.3
10	17865.00	40.5 AV	54.0	-13.5	2.27 V	152	20.2	20.3
11	23820.00	55.6 PK	74.0	-18.4	1.78 V	55	58.1	-2.5
12	23820.00	43.7 AV	54.0	-10.3	1.78 V	55	46.2	-2.5

Remarks:

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

RF Mode	TX Channel 45	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	96.7 PK			1.78 H	352	91.4	5.3
2	*6175.00	85.1 AV			1.78 H	352	79.8	5.3
3	12350.00	45.2 PK	74.0	-28.8	2.89 H	173	31.7	13.5
4	12350.00	35.7 AV	54.0	-18.3	2.89 H	173	22.2	13.5
5	18525.00	52.5 PK	74.0	-21.5	1.89 H	233	59.7	-7.2
6	18525.00	40.6 AV	54.0	-13.4	1.89 H	233	47.8	-7.2
7	#24700.00	55.1 PK	88.2	-33.1	1.00 H	323	56.7	-1.6
8	#24700.00	43.0 AV	68.2	-25.2	1.00 H	323	44.6	-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	*6175.00	93.8 PK			2.80 V	308	88.5	5.3
2	*6175.00	82.4 AV			2.80 V	308	77.1	5.3
3	12350.00	44.8 PK	74.0	-29.2	3.35 V	342	31.3	13.5
4	12350.00	35.9 AV	54.0	-18.1	3.35 V	342	22.4	13.5
5	18525.00	51.2 PK	74.0	-22.8	2.16 V	171	58.4	-7.2
6	18525.00	39.9 AV	54.0	-14.1	2.16 V	171	47.1	-7.2
7	#24700.00	55.5 PK	88.2	-32.7	1.75 V	47	57.1	-1.6
8	#24700.00	43.3 AV	68.2	-24.9	1.75 V	47	44.9	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 93	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.0 PK			1.84 H	338	90.5	6.5
2	*6415.00	85.5 AV			1.84 H	338	79.0	6.5
3	#12830.00	45.5 PK	88.2	-42.7	2.93 H	160	31.3	14.2
4	#12830.00	36.1 AV	68.2	-32.1	2.93 H	160	21.9	14.2
5	19245.00	52.5 PK	74.0	-21.5	1.97 H	225	59.2	-6.7
6	19245.00	40.5 AV	54.0	-13.5	1.97 H	225	47.2	-6.7
7	#25660.00	55.5 PK	88.2	-32.7	1.00 H	302	57.1	-1.6
8	#25660.00	43.3 AV	68.2	-24.9	1.00 H	302	44.9	-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	*6415.00	94.1 PK			2.83 V	318	87.6	6.5
2	*6415.00	82.4 AV			2.83 V	318	75.9	6.5
3	#12830.00	44.5 PK	88.2	-43.7	3.32 V	336	30.3	14.2
4	#12830.00	35.3 AV	68.2	-32.9	3.32 V	336	21.1	14.2
5	19245.00	50.7 PK	74.0	-23.3	2.21 V	165	57.4	-6.7
6	19245.00	39.6 AV	54.0	-14.4	2.21 V	165	46.3	-6.7
7	#25660.00	55.1 PK	88.2	-33.1	1.81 V	46	56.7	-1.6
8	#25660.00	43.1 AV	68.2	-25.1	1.81 V	46	44.7	-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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX Channel 97	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	96.8 PK			1.79 H	351	90.2	6.6
2	*6435.00	85.1 AV			1.79 H	351	78.5	6.6
3	#12870.00	45.8 PK	88.2	-42.4	2.88 H	165	31.7	14.1
4	#12870.00	36.5 AV	68.2	-31.7	2.88 H	165	22.4	14.1
5	19305.00	52.7 PK	74.0	-21.3	2.00 H	210	59.4	-6.7
6	19305.00	40.8 AV	54.0	-13.2	2.00 H	210	47.5	-6.7
7	#25740.00	55.8 PK	88.2	-32.4	1.00 H	311	57.2	-1.4
8	#25740.00	43.3 AV	68.2	-24.9	1.00 H	311	44.7	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	93.8 PK			2.76 V	318	87.2	6.6
2	*6435.00	82.3 AV			2.76 V	318	75.7	6.6
3	#12870.00	44.6 PK	88.2	-43.6	3.31 V	332	30.5	14.1
4	#12870.00	35.7 AV	68.2	-32.5	3.31 V	332	21.6	14.1
5	19305.00	51.5 PK	74.0	-22.5	2.17 V	173	58.2	-6.7
6	19305.00	40.1 AV	54.0	-13.9	2.17 V	173	46.8	-6.7
7	#25740.00	55.8 PK	88.2	-32.4	1.76 V	69	57.2	-1.4
8	#25740.00	43.8 AV	68.2	-24.4	1.76 V	69	45.2	-1.4

Remarks:

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

RF Mode	TX Channel 105	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.1 PK			1.84 H	355	90.2	6.9
2	*6475.00	85.4 AV			1.84 H	355	78.5	6.9
3	#12950.00	45.4 PK	88.2	-42.8	2.93 H	146	31.3	14.1
4	#12950.00	35.7 AV	68.2	-32.5	2.93 H	146	21.6	14.1
5	19425.00	52.2 PK	74.0	-21.8	1.99 H	217	59.0	-6.8
6	19425.00	40.0 AV	54.0	-14.0	1.99 H	217	46.8	-6.8
7	#25900.00	55.8 PK	88.2	-32.4	1.00 H	316	57.8	-2.0
8	#25900.00	43.4 AV	68.2	-24.8	1.00 H	316	45.4	-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	*6475.00	93.6 PK			2.81 V	318	86.7	6.9
2	*6475.00	82.0 AV			2.81 V	318	75.1	6.9
3	#12950.00	44.8 PK	88.2	-43.4	3.33 V	334	30.7	14.1
4	#12950.00	35.7 AV	68.2	-32.5	3.33 V	334	21.6	14.1
5	19425.00	51.4 PK	74.0	-22.6	2.21 V	166	58.2	-6.8
6	19425.00	40.1 AV	54.0	-13.9	2.21 V	166	46.9	-6.8
7	#25900.00	55.7 PK	88.2	-32.5	1.76 V	60	57.7	-2.0
8	#25900.00	43.6 AV	68.2	-24.6	1.76 V	60	45.6	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 113	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	96.9 PK			1.81 H	356	89.5	7.4
2	*6515.00	85.0 AV			1.81 H	356	77.6	7.4
3	#13030.00	45.2 PK	88.2	-43.0	2.92 H	149	30.9	14.3
4	#13030.00	36.0 AV	68.2	-32.2	2.92 H	149	21.7	14.3
5	19545.00	52.1 PK	74.0	-21.9	1.99 H	218	58.3	-6.2
6	19545.00	40.3 AV	54.0	-13.7	1.99 H	218	46.5	-6.2
7	#26060.00	55.9 PK	88.2	-32.3	1.00 H	306	57.3	-1.4
8	#26060.00	43.5 AV	68.2	-24.7	1.00 H	306	44.9	-1.4
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	*6515.00	93.3 PK			2.78 V	310	85.9	7.4
2	*6515.00	82.0 AV			2.78 V	310	74.6	7.4
3	#13030.00	45.6 PK	88.2	-42.6	3.39 V	310	31.3	14.3
4	#13030.00	36.1 AV	68.2	-32.1	3.39 V	310	21.8	14.3
5	19545.00	51.9 PK	74.0	-22.1	2.23 V	157	58.1	-6.2
6	19545.00	40.5 AV	54.0	-13.5	2.23 V	157	46.7	-6.2
7	#26060.00	55.8 PK	88.2	-32.4	1.69 V	52	57.2	-1.4
8	#26060.00	43.4 AV	68.2	-24.8	1.69 V	52	44.8	-1.4

Remarks:

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

RF Mode	TX Channel 117	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.7 PK			1.84 H	357	90.4	7.3
2	*6535.00	85.7 AV			1.84 H	357	78.4	7.3
3	#13070.00	45.3 PK	88.2	-42.9	2.95 H	167	30.9	14.4
4	#13070.00	36.2 AV	68.2	-32.0	2.95 H	167	21.8	14.4
5	19605.00	51.8 PK	74.0	-22.2	1.96 H	219	57.9	-6.1
6	19605.00	40.0 AV	54.0	-14.0	1.96 H	219	46.1	-6.1
7	#26140.00	55.5 PK	88.2	-32.7	1.00 H	299	56.8	-1.3
8	#26140.00	43.2 AV	68.2	-25.0	1.00 H	299	44.5	-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	*6535.00	93.3 PK			2.84 V	306	86.0	7.3
2	*6535.00	81.8 AV			2.84 V	306	74.5	7.3
3	#13070.00	45.5 PK	88.2	-42.7	3.30 V	338	31.1	14.4
4	#13070.00	36.0 AV	68.2	-32.2	3.30 V	338	21.6	14.4
5	19605.00	52.2 PK	74.0	-21.8	2.21 V	158	58.3	-6.1
6	19605.00	40.6 AV	54.0	-13.4	2.21 V	158	46.7	-6.1
7	#26140.00	56.1 PK	88.2	-32.1	1.71 V	70	57.4	-1.3
8	#26140.00	43.5 AV	68.2	-24.7	1.71 V	70	44.8	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 153	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	*6715.00	96.5 PK			1.77 H	352	89.1	7.4
2	*6715.00	85.0 AV			1.77 H	352	77.6	7.4
3	#13430.00	45.5 PK	88.2	-42.7	2.87 H	171	30.3	15.2
4	#13430.00	36.4 AV	68.2	-31.8	2.87 H	171	21.2	15.2
5	20145.00	53.1 PK	74.0	-20.9	1.93 H	238	58.5	-5.4
6	20145.00	40.8 AV	54.0	-13.2	1.93 H	238	46.2	-5.4
7	#26860.00	55.8 PK	88.2	-32.4	1.00 H	290	56.9	-1.1
8	#26860.00	43.5 AV	68.2	-24.7	1.00 H	290	44.6	-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	*6715.00	93.3 PK			2.78 V	308	85.9	7.4
2	*6715.00	81.9 AV			2.78 V	308	74.5	7.4
3	#13430.00	45.5 PK	88.2	-42.7	3.34 V	340	30.3	15.2
4	#13430.00	36.0 AV	68.2	-32.2	3.34 V	340	20.8	15.2
5	20145.00	51.5 PK	74.0	-22.5	2.17 V	155	56.9	-5.4
6	20145.00	40.3 AV	54.0	-13.7	2.17 V	155	45.7	-5.4
7	#26860.00	55.7 PK	88.2	-32.5	1.79 V	60	56.8	-1.1
8	#26860.00	43.6 AV	68.2	-24.6	1.79 V	60	44.7	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 181	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.4 PK			1.84 H	345	89.9	7.5
2	*6855.00	85.9 AV			1.84 H	345	78.4	7.5
3	#13710.00	45.1 PK	88.2	-43.1	2.90 H	156	29.0	16.1
4	#13710.00	35.7 AV	68.2	-32.5	2.90 H	156	19.6	16.1
5	20565.00	52.4 PK	74.0	-21.6	2.00 H	221	57.3	-4.9
6	20565.00	40.5 AV	54.0	-13.5	2.00 H	221	45.4	-4.9
7	#27420.00	55.0 PK	88.2	-33.2	1.00 H	291	56.6	-1.6
8	#27420.00	43.0 AV	68.2	-25.2	1.00 H	291	44.6	-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	*6855.00	94.3 PK			2.79 V	296	86.8	7.5
2	*6855.00	82.7 AV			2.79 V	296	75.2	7.5
3	#13710.00	44.4 PK	88.2	-43.8	3.32 V	317	28.3	16.1
4	#13710.00	35.3 AV	68.2	-32.9	3.32 V	317	19.2	16.1
5	20565.00	51.4 PK	74.0	-22.6	2.17 V	141	56.3	-4.9
6	20565.00	40.1 AV	54.0	-13.9	2.17 V	141	45.0	-4.9
7	#27420.00	55.9 PK	88.2	-32.3	1.71 V	47	57.5	-1.6
8	#27420.00	43.4 AV	68.2	-24.8	1.71 V	47	45.0	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 185	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.6 PK			1.83 H	351	89.9	7.7
2	*6875.00	85.7 AV			1.83 H	351	78.0	7.7
3	#13750.00	45.1 PK	88.2	-43.1	2.92 H	155	29.0	16.1
4	#13750.00	35.9 AV	68.2	-32.3	2.92 H	155	19.8	16.1
5	20625.00	51.8 PK	74.0	-22.2	2.01 H	235	56.6	-4.8
6	20625.00	40.0 AV	54.0	-14.0	2.01 H	235	44.8	-4.8
7	#27500.00	55.9 PK	88.2	-32.3	1.00 H	297	57.1	-1.2
8	#27500.00	43.7 AV	68.2	-24.5	1.00 H	297	44.9	-1.2
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	*6875.00	93.5 PK			2.81 V	323	85.8	7.7
2	*6875.00	82.2 AV			2.81 V	323	74.5	7.7
3	#13750.00	44.5 PK	88.2	-43.7	3.38 V	328	28.4	16.1
4	#13750.00	35.5 AV	68.2	-32.7	3.38 V	328	19.4	16.1
5	20625.00	52.3 PK	74.0	-21.7	2.17 V	154	57.1	-4.8
6	20625.00	40.6 AV	54.0	-13.4	2.17 V	154	45.4	-4.8
7	#27500.00	55.5 PK	88.2	-32.7	1.74 V	56	56.7	-1.2
8	#27500.00	43.2 AV	68.2	-25.0	1.74 V	56	44.4	-1.2

Remarks:

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

RF Mode	TX Channel 213	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	*7015.00	97.9 PK			1.85 H	338	88.9	9.0
2	*7015.00	85.9 AV			1.85 H	338	76.9	9.0
3	#14030.00	46.0 PK	88.2	-42.2	2.94 H	176	29.7	16.3
4	#14030.00	36.6 AV	68.2	-31.6	2.94 H	176	20.3	16.3
5	21045.00	52.6 PK	74.0	-21.4	1.98 H	225	57.0	-4.4
6	21045.00	40.6 AV	54.0	-13.4	1.98 H	225	45.0	-4.4
7	#28060.00	56.1 PK	88.2	-32.1	1.00 H	287	57.5	-1.4
8	#28060.00	43.7 AV	68.2	-24.5	1.00 H	287	45.1	-1.4
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	*7015.00	93.9 PK			2.80 V	307	84.9	9.0
2	*7015.00	82.2 AV			2.80 V	307	73.2	9.0
3	#14030.00	44.8 PK	88.2	-43.4	3.39 V	312	28.5	16.3
4	#14030.00	35.6 AV	68.2	-32.6	3.39 V	312	19.3	16.3
5	21045.00	51.8 PK	74.0	-22.2	2.18 V	153	56.2	-4.4
6	21045.00	40.5 AV	54.0	-13.5	2.18 V	153	44.9	-4.4
7	#28060.00	55.0 PK	88.2	-33.2	1.69 V	60	56.4	-1.4
8	#28060.00	42.8 AV	68.2	-25.4	1.69 V	60	44.2	-1.4

Remarks:

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

RF Mode	TX Channel 233	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	99.2 PK			1.82 H	328	89.5	9.7
2	*7115.00	88.1 AV			1.82 H	328	78.4	9.7
3	#7125.00	81.2 PK	88.2	-7.0	1.82 H	328	71.5	9.7
4	#7125.00	68.0 AV	68.2	-0.2	1.82 H	328	58.3	9.7
5	#14230.00	45.3 PK	88.2	-42.9	2.96 H	175	28.0	17.3
6	#14230.00	36.2 AV	68.2	-32.0	2.96 H	175	18.9	17.3
7	21345.00	52.5 PK	74.0	-21.5	1.94 H	217	56.7	-4.2
8	21345.00	40.7 AV	54.0	-13.3	1.94 H	217	44.9	-4.2
9	#28460.00	56.2 PK	88.2	-32.0	1.00 H	287	57.6	-1.4
10	#28460.00	43.7 AV	68.2	-24.5	1.00 H	287	45.1	-1.4

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	*7115.00	94.1 PK			2.70 V	309	84.4	9.7
2	*7115.00	83.4 AV			2.70 V	309	73.7	9.7
3	#7125.00	72.6 PK	88.2	-15.6	2.70 V	309	62.9	9.7
4	#7125.00	62.9 AV	68.2	-5.3	2.70 V	309	53.2	9.7
5	#14230.00	45.4 PK	88.2	-42.8	3.30 V	327	28.1	17.3
6	#14230.00	35.9 AV	68.2	-32.3	3.30 V	327	18.6	17.3
7	21345.00	52.1 PK	74.0	-21.9	2.17 V	143	56.3	-4.2
8	21345.00	40.4 AV	54.0	-13.6	2.17 V	143	44.6	-4.2
9	#28460.00	56.0 PK	88.2	-32.2	1.79 V	54	57.4	-1.4
10	#28460.00	43.6 AV	68.2	-24.6	1.79 V	54	45.0	-1.4

Remarks:

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

802.11ax (HE40)

RF Mode	TX Channel 3	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	#5919.05	53.5 PK	88.2	-34.7	1.98 H	354	48.6	4.9
2	#5919.05	42.4 AV	68.2	-25.8	1.98 H	354	37.5	4.9
3	#5925.00	53.4 PK	88.2	-34.8	1.98 H	354	48.5	4.9
4	#5925.00	42.6 AV	68.2	-25.6	1.98 H	354	37.7	4.9
5	*5965.00	99.7 PK			1.98 H	354	94.7	5.0
6	*5965.00	88.2 AV			1.98 H	354	83.2	5.0
7	11930.00	45.7 PK	74.0	-28.3	2.96 H	163	32.1	13.6
8	11930.00	36.4 AV	54.0	-17.6	2.96 H	163	22.8	13.6
9	17895.00	51.8 PK	74.0	-22.2	2.02 H	230	31.2	20.6
10	17895.00	40.0 AV	54.0	-14.0	2.02 H	230	19.4	20.6
11	23860.00	56.1 PK	74.0	-17.9	1.00 H	308	58.4	-2.3
12	23860.00	43.7 AV	54.0	-10.3	1.00 H	308	46.0	-2.3
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	#5899.76	53.5 PK	88.2	-34.7	2.64 V	254	48.5	5.0
2	#5899.76	41.6 AV	68.2	-26.6	2.64 V	254	36.6	5.0
3	#5925.00	53.5 PK	88.2	-34.7	2.64 V	254	48.6	4.9
4	#5925.00	41.9 AV	68.2	-26.3	2.64 V	254	37.0	4.9
5	*5965.00	97.1 PK			2.64 V	254	92.1	5.0
6	*5965.00	86.2 AV			2.64 V	254	81.2	5.0
7	11930.00	45.0 PK	74.0	-29.0	3.32 V	324	31.4	13.6
8	11930.00	35.6 AV	54.0	-18.4	3.32 V	324	22.0	13.6
9	17895.00	51.5 PK	74.0	-22.5	2.18 V	163	30.9	20.6
10	17895.00	39.9 AV	54.0	-14.1	2.18 V	163	19.3	20.6
11	23860.00	55.4 PK	74.0	-18.6	1.75 V	51	57.7	-2.3
12	23860.00	42.8 AV	54.0	-11.2	1.75 V	51	45.1	-2.3

Remarks:

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

RF Mode	TX Channel 43	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	99.6 PK			2.02 H	357	94.4	5.2
2	*6165.00	87.9 AV			2.02 H	357	82.7	5.2
3	12330.00	45.7 PK	74.0	-28.3	2.93 H	153	32.0	13.7
4	12330.00	36.3 AV	54.0	-17.7	2.93 H	153	22.6	13.7
5	18495.00	52.5 PK	74.0	-21.5	1.99 H	233	59.8	-7.3
6	18495.00	40.7 AV	54.0	-13.3	1.99 H	233	48.0	-7.3
7	#24660.00	55.4 PK	88.2	-32.8	1.00 H	286	57.2	-1.8
8	#24660.00	43.4 AV	68.2	-24.8	1.00 H	286	45.2	-1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6165.00	97.6 PK			2.65 V	255	92.4	5.2
2	*6165.00	86.7 AV			2.65 V	255	81.5	5.2
3	12330.00	45.0 PK	74.0	-29.0	3.36 V	322	31.3	13.7
4	12330.00	35.7 AV	54.0	-18.3	3.36 V	322	22.0	13.7
5	18495.00	51.9 PK	74.0	-22.1	2.14 V	159	59.2	-7.3
6	18495.00	40.6 AV	54.0	-13.4	2.14 V	159	47.9	-7.3
7	#24660.00	56.0 PK	88.2	-32.2	1.75 V	46	57.8	-1.8
8	#24660.00	43.4 AV	68.2	-24.8	1.75 V	46	45.2	-1.8

Remarks:

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

RF Mode	TX Channel 91	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.5 PK			1.92 H	6	89.1	6.4
2	*6405.00	83.7 AV			1.92 H	6	77.3	6.4
3	#12810.00	45.2 PK	88.2	-43.0	2.96 H	166	30.9	14.3
4	#12810.00	35.6 AV	68.2	-32.6	2.96 H	166	21.3	14.3
5	19215.00	52.6 PK	74.0	-21.4	1.98 H	241	59.3	-6.7
6	19215.00	40.6 AV	54.0	-13.4	1.98 H	241	47.3	-6.7
7	#25620.00	55.5 PK	88.2	-32.7	1.00 H	314	57.2	-1.7
8	#25620.00	43.1 AV	68.2	-25.1	1.00 H	314	44.8	-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	*6405.00	96.4 PK			2.66 V	243	90.0	6.4
2	*6405.00	85.7 AV			2.66 V	243	79.3	6.4
3	#12810.00	45.2 PK	88.2	-43.0	3.29 V	337	30.9	14.3
4	#12810.00	36.0 AV	68.2	-32.2	3.29 V	337	21.7	14.3
5	19215.00	51.5 PK	74.0	-22.5	2.23 V	159	58.2	-6.7
6	19215.00	39.9 AV	54.0	-14.1	2.23 V	159	46.6	-6.7
7	#25620.00	56.0 PK	88.2	-32.2	1.78 V	58	57.7	-1.7
8	#25620.00	43.7 AV	68.2	-24.5	1.78 V	58	45.4	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 99	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.6 PK			1.91 H	24	88.9	6.7
2	*6445.00	83.6 AV			1.91 H	24	76.9	6.7
3	#12890.00	44.5 PK	88.2	-43.7	3.01 H	170	30.6	13.9
4	#12890.00	35.1 AV	68.2	-33.1	3.01 H	170	21.2	13.9
5	19335.00	52.4 PK	74.0	-21.6	2.04 H	245	59.2	-6.8
6	19335.00	40.7 AV	54.0	-13.3	2.04 H	245	47.5	-6.8
7	#25780.00	55.0 PK	88.2	-33.2	1.00 H	310	56.4	-1.4
8	#25780.00	42.6 AV	68.2	-25.6	1.00 H	310	44.0	-1.4
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	*6445.00	96.6 PK			2.61 V	235	89.9	6.7
2	*6445.00	85.7 AV			2.61 V	235	79.0	6.7
3	#12890.00	45.4 PK	88.2	-42.8	3.30 V	316	31.5	13.9
4	#12890.00	35.9 AV	68.2	-32.3	3.30 V	316	22.0	13.9
5	19335.00	52.1 PK	74.0	-21.9	2.14 V	145	58.9	-6.8
6	19335.00	40.7 AV	54.0	-13.3	2.14 V	145	47.5	-6.8
7	#25780.00	55.4 PK	88.2	-32.8	1.73 V	50	56.8	-1.4
8	#25780.00	43.0 AV	68.2	-25.2	1.73 V	50	44.4	-1.4

Remarks:

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

RF Mode	TX Channel 107	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.9 PK			1.84 H	25	88.8	7.1
2	*6485.00	84.0 AV			1.84 H	25	76.9	7.1
3	#12970.00	45.9 PK	88.2	-42.3	2.96 H	166	31.8	14.1
4	#12970.00	36.1 AV	68.2	-32.1	2.96 H	166	22.0	14.1
5	19455.00	52.6 PK	74.0	-21.4	2.02 H	238	59.2	-6.6
6	19455.00	40.9 AV	54.0	-13.1	2.02 H	238	47.5	-6.6
7	#25940.00	55.1 PK	88.2	-33.1	1.00 H	318	56.9	-1.8
8	#25940.00	42.9 AV	68.2	-25.3	1.00 H	318	44.7	-1.8
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	95.9 PK			2.66 V	247	88.8	7.1
2	*6485.00	85.3 AV			2.66 V	247	78.2	7.1
3	#12970.00	44.9 PK	88.2	-43.3	3.34 V	317	30.8	14.1
4	#12970.00	35.8 AV	68.2	-32.4	3.34 V	317	21.7	14.1
5	19455.00	51.3 PK	74.0	-22.7	2.18 V	151	57.9	-6.6
6	19455.00	39.8 AV	54.0	-14.2	2.18 V	151	46.4	-6.6
7	#25940.00	55.4 PK	88.2	-32.8	1.79 V	66	57.2	-1.8
8	#25940.00	43.2 AV	68.2	-25.0	1.79 V	66	45.0	-1.8

Remarks:

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

RF Mode	TX Channel 115	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.6 PK			1.86 H	17	88.3	7.3
2	*6525.00	83.9 AV			1.86 H	17	76.6	7.3
3	#13050.00	45.2 PK	88.2	-43.0	2.98 H	176	30.9	14.3
4	#13050.00	35.4 AV	68.2	-32.8	2.98 H	176	21.1	14.3
5	19575.00	52.9 PK	74.0	-21.1	2.03 H	247	59.1	-6.2
6	19575.00	40.7 AV	54.0	-13.3	2.03 H	247	46.9	-6.2
7	#26100.00	55.2 PK	88.2	-33.0	1.00 H	301	56.6	-1.4
8	#26100.00	42.8 AV	68.2	-25.4	1.00 H	301	44.2	-1.4
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	*6525.00	95.8 PK			2.64 V	255	88.5	7.3
2	*6525.00	85.2 AV			2.64 V	255	77.9	7.3
3	#13050.00	44.8 PK	88.2	-43.4	3.38 V	339	30.5	14.3
4	#13050.00	35.4 AV	68.2	-32.8	3.38 V	339	21.1	14.3
5	19575.00	51.2 PK	74.0	-22.8	2.20 V	164	57.4	-6.2
6	19575.00	40.0 AV	54.0	-14.0	2.20 V	164	46.2	-6.2
7	#26100.00	55.3 PK	88.2	-32.9	1.68 V	54	56.7	-1.4
8	#26100.00	42.9 AV	68.2	-25.3	1.68 V	54	44.3	-1.4

Remarks:

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

RF Mode	TX Channel 123	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.9 PK			1.87 H	18	88.4	7.5
2	*6565.00	84.1 AV			1.87 H	18	76.6	7.5
3	#13130.00	45.2 PK	88.2	-43.0	2.92 H	176	30.5	14.7
4	#13130.00	35.4 AV	68.2	-32.8	2.92 H	176	20.7	14.7
5	19695.00	53.0 PK	74.0	-21.0	2.03 H	234	59.0	-6.0
6	19695.00	40.9 AV	54.0	-13.1	2.03 H	234	46.9	-6.0
7	#26260.00	55.1 PK	88.2	-33.1	1.00 H	308	56.5	-1.4
8	#26260.00	42.9 AV	68.2	-25.3	1.00 H	308	44.3	-1.4
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	*6565.00	96.1 PK			2.60 V	236	88.6	7.5
2	*6565.00	85.3 AV			2.60 V	236	77.8	7.5
3	#13130.00	44.7 PK	88.2	-43.5	3.39 V	319	30.0	14.7
4	#13130.00	35.7 AV	68.2	-32.5	3.39 V	319	21.0	14.7
5	19695.00	52.3 PK	74.0	-21.7	2.15 V	161	58.3	-6.0
6	19695.00	40.7 AV	54.0	-13.3	2.15 V	161	46.7	-6.0
7	#26260.00	55.3 PK	88.2	-32.9	1.72 V	59	56.7	-1.4
8	#26260.00	43.2 AV	68.2	-25.0	1.72 V	59	44.6	-1.4

Remarks:

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

RF Mode	TX Channel 155	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.4 PK			1.91 H	25	87.8	7.6
2	*6725.00	83.4 AV			1.91 H	25	75.8	7.6
3	#13450.00	44.7 PK	88.2	-43.5	2.90 H	165	29.5	15.2
4	#13450.00	35.2 AV	68.2	-33.0	2.90 H	165	20.0	15.2
5	20175.00	52.6 PK	74.0	-21.4	1.94 H	232	58.0	-5.4
6	20175.00	40.5 AV	54.0	-13.5	1.94 H	232	45.9	-5.4
7	#26900.00	55.6 PK	88.2	-32.6	1.00 H	323	56.9	-1.3
8	#26900.00	43.1 AV	68.2	-25.1	1.00 H	323	44.4	-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	*6725.00	96.1 PK			2.66 V	247	88.5	7.6
2	*6725.00	85.5 AV			2.66 V	247	77.9	7.6
3	#13450.00	45.2 PK	88.2	-43.0	3.36 V	318	30.0	15.2
4	#13450.00	35.9 AV	68.2	-32.3	3.36 V	318	20.7	15.2
5	20175.00	51.3 PK	74.0	-22.7	2.18 V	146	56.7	-5.4
6	20175.00	40.0 AV	54.0	-14.0	2.18 V	146	45.4	-5.4
7	#26900.00	55.8 PK	88.2	-32.4	1.68 V	52	57.1	-1.3
8	#26900.00	43.2 AV	68.2	-25.0	1.68 V	52	44.5	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 179	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.4 PK			1.84 H	29	88.0	7.4
2	*6845.00	83.6 AV			1.84 H	29	76.2	7.4
3	#13690.00	45.5 PK	88.2	-42.7	3.01 H	169	29.4	16.1
4	#13690.00	35.9 AV	68.2	-32.3	3.01 H	169	19.8	16.1
5	20535.00	52.5 PK	74.0	-21.5	1.97 H	249	57.4	-4.9
6	20535.00	40.5 AV	54.0	-13.5	1.97 H	249	45.4	-4.9
7	#27380.00	55.3 PK	88.2	-32.9	1.00 H	315	57.0	-1.7
8	#27380.00	43.0 AV	68.2	-25.2	1.00 H	315	44.7	-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	*6845.00	97.0 PK			2.70 V	248	89.6	7.4
2	*6845.00	86.3 AV			2.70 V	248	78.9	7.4
3	#13690.00	44.9 PK	88.2	-43.3	3.38 V	326	28.8	16.1
4	#13690.00	35.8 AV	68.2	-32.4	3.38 V	326	19.7	16.1
5	20535.00	51.6 PK	74.0	-22.4	2.14 V	170	56.5	-4.9
6	20535.00	39.9 AV	54.0	-14.1	2.14 V	170	44.8	-4.9
7	#27380.00	54.8 PK	88.2	-33.4	1.71 V	61	56.5	-1.7
8	#27380.00	42.7 AV	68.2	-25.5	1.71 V	61	44.4	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 187	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	95.7 PK			1.90 H	15	88.0	7.7
2	*6885.00	83.9 AV			1.90 H	15	76.2	7.7
3	#13770.00	45.6 PK	88.2	-42.6	2.92 H	171	29.4	16.2
4	#13770.00	36.0 AV	68.2	-32.2	2.92 H	171	19.8	16.2
5	20655.00	53.0 PK	74.0	-21.0	1.94 H	234	57.9	-4.9
6	20655.00	41.1 AV	54.0	-12.9	1.94 H	234	46.0	-4.9
7	#27540.00	55.7 PK	88.2	-32.5	1.00 H	301	57.0	-1.3
8	#27540.00	43.5 AV	68.2	-24.7	1.00 H	301	44.8	-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	*6885.00	96.0 PK			2.70 V	230	88.3	7.7
2	*6885.00	85.6 AV			2.70 V	230	77.9	7.7
3	#13770.00	44.6 PK	88.2	-43.6	3.32 V	317	28.4	16.2
4	#13770.00	35.2 AV	68.2	-33.0	3.32 V	317	19.0	16.2
5	20655.00	51.9 PK	74.0	-22.1	2.22 V	158	56.8	-4.9
6	20655.00	40.3 AV	54.0	-13.7	2.22 V	158	45.2	-4.9
7	#27540.00	55.5 PK	88.2	-32.7	1.79 V	50	56.8	-1.3
8	#27540.00	43.3 AV	68.2	-24.9	1.79 V	50	44.6	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 211	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	98.1 PK			1.89 H	0	89.3	8.8
2	*7005.00	86.1 AV			1.89 H	0	77.3	8.8
3	#14010.00	44.6 PK	88.2	-43.6	2.95 H	162	28.4	16.2
4	#14010.00	35.3 AV	68.2	-32.9	2.95 H	162	19.1	16.2
5	21015.00	52.2 PK	74.0	-21.8	1.96 H	237	56.6	-4.4
6	21015.00	40.2 AV	54.0	-13.8	1.96 H	237	44.6	-4.4
7	#28020.00	55.5 PK	88.2	-32.7	1.00 H	314	56.8	-1.3
8	#28020.00	43.2 AV	68.2	-25.0	1.00 H	314	44.5	-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	*7005.00	95.8 PK			2.75 V	245	87.0	8.8
2	*7005.00	85.7 AV			2.75 V	245	76.9	8.8
3	#14010.00	45.2 PK	88.2	-43.0	3.34 V	328	29.0	16.2
4	#14010.00	35.7 AV	68.2	-32.5	3.34 V	328	19.5	16.2
5	21015.00	52.0 PK	74.0	-22.0	2.12 V	139	56.4	-4.4
6	21015.00	40.6 AV	54.0	-13.4	2.12 V	139	45.0	-4.4
7	#28020.00	55.2 PK	88.2	-33.0	1.79 V	68	56.5	-1.3
8	#28020.00	43.0 AV	68.2	-25.2	1.79 V	68	44.3	-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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX Channel 227	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.5 PK			1.85 H	9	88.0	9.5
2	*7085.00	85.8 AV			1.85 H	9	76.3	9.5
3	#7125.00	56.1 PK	88.2	-32.1	1.85 H	9	46.4	9.7
4	#7125.00	45.4 AV	68.2	-22.8	1.85 H	9	35.7	9.7
5	#7156.82	57.7 PK	88.2	-30.5	1.85 H	9	47.9	9.8
6	#7156.82	45.6 AV	68.2	-22.6	1.85 H	9	35.8	9.8
7	#14170.00	45.6 PK	88.2	-42.6	2.89 H	171	28.6	17.0
8	#14170.00	35.9 AV	68.2	-32.3	2.89 H	171	18.9	17.0
9	21255.00	52.7 PK	74.0	-21.3	1.89 H	201	56.9	-4.2
10	21255.00	40.7 AV	54.0	-13.3	1.89 H	201	44.9	-4.2
11	#28340.00	56.5 PK	88.2	-31.7	1.11 H	306	57.8	-1.3
12	#28340.00	43.7 AV	68.2	-24.5	1.11 H	306	45.0	-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	*7085.00	96.3 PK			2.47 V	254	86.8	9.5
2	*7085.00	84.5 AV			2.47 V	254	75.0	9.5
3	#7125.00	55.5 PK	88.2	-32.7	2.47 V	254	45.8	9.7
4	#7125.00	45.5 AV	68.2	-22.7	2.47 V	254	35.8	9.7
5	#7130.26	57.1 PK	88.2	-31.1	2.47 V	254	47.4	9.7
6	#7130.26	45.6 AV	68.2	-22.6	2.47 V	254	35.9	9.7
7	#14170.00	44.2 PK	88.2	-44.0	3.30 V	323	27.2	17.0
8	#14170.00	35.2 AV	68.2	-33.0	3.30 V	323	18.2	17.0
9	21255.00	52.1 PK	74.0	-21.9	2.14 V	141	56.3	-4.2
10	21255.00	40.4 AV	54.0	-13.6	2.14 V	141	44.6	-4.2
11	#28340.00	54.9 PK	88.2	-33.3	1.78 V	47	56.2	-1.3
12	#28340.00	42.7 AV	68.2	-25.5	1.78 V	47	44.0	-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.
6. " # ": The radiated frequency is out of the restricted band.

802.11ax (HE80)

Channel	TX Channel 7	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	56.3 PK	88.2	-31.9	1.86 H	259	51.4	4.9
2	#5925.00	48.0 AV	68.2	-20.2	1.86 H	259	43.1	4.9
3	*5985.00	100.2 PK			1.86 H	259	95.2	5.0
4	*5985.00	90.3 AV			1.86 H	259	85.3	5.0
5	11970.00	45.6 PK	74.0	-28.4	2.91 H	168	31.9	13.7
6	11970.00	35.8 AV	54.0	-18.2	2.91 H	168	22.1	13.7
7	17955.00	52.2 PK	74.0	-21.8	1.93 H	213	30.7	21.5
8	17955.00	40.5 AV	54.0	-13.5	1.93 H	213	19.0	21.5
9	23940.00	56.2 PK	74.0	-17.8	1.06 H	294	58.5	-2.3
10	23940.00	43.6 AV	54.0	-10.4	1.06 H	294	45.9	-2.3
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	#5925.00	55.0 PK	88.2	-33.2	1.79 V	255	50.1	4.9
2	#5925.00	46.3 AV	68.2	-21.9	1.79 V	255	41.4	4.9
3	*5985.00	100.0 PK			1.79 V	255	95.0	5.0
4	*5985.00	89.5 AV			1.79 V	255	84.5	5.0
5	11970.00	44.9 PK	74.0	-29.1	3.34 V	325	31.2	13.7
6	11970.00	35.6 AV	54.0	-18.4	3.34 V	325	21.9	13.7
7	17955.00	51.8 PK	74.0	-22.2	2.17 V	154	30.3	21.5
8	17955.00	40.3 AV	54.0	-13.7	2.17 V	154	18.8	21.5
9	23940.00	55.6 PK	74.0	-18.4	1.74 V	56	57.9	-2.3
10	23940.00	43.2 AV	54.0	-10.8	1.74 V	56	45.5	-2.3

Remarks:

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

Channel	TX Channel 39	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	99.5 PK			1.95 H	256	94.4	5.1
2	*6145.00	91.1 AV			1.95 H	256	86.0	5.1
3	12290.00	45.5 PK	74.0	-28.5	2.89 H	172	31.4	14.1
4	12290.00	35.9 AV	54.0	-18.1	2.89 H	172	21.8	14.1
5	18435.00	51.8 PK	74.0	-22.2	1.99 H	208	59.0	-7.2
6	18435.00	40.1 AV	54.0	-13.9	1.99 H	208	47.3	-7.2
7	#24580.00	55.7 PK	88.2	-32.5	1.07 H	285	57.6	-1.9
8	#24580.00	44.1 AV	68.2	-24.1	1.07 H	285	46.0	-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	*6145.00	97.7 PK			3.53 V	316	92.6	5.1
2	*6145.00	88.8 AV			3.53 V	316	83.7	5.1
3	12290.00	45.2 PK	74.0	-28.8	3.37 V	288	31.1	14.1
4	12290.00	36.0 AV	54.0	-18.0	3.37 V	288	21.9	14.1
5	18435.00	51.9 PK	74.0	-22.1	2.12 V	145	59.1	-7.2
6	18435.00	40.3 AV	54.0	-13.7	2.12 V	145	47.5	-7.2
7	#24580.00	55.3 PK	88.2	-32.9	1.78 V	46	57.2	-1.9
8	#24580.00	43.1 AV	68.2	-25.1	1.78 V	46	45.0	-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.
6. " # " : The radiated frequency is out of the restricted band.

Channel	TX Channel 87	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	98.3 PK			1.00 H	0	92.0	6.3
2	*6385.00	90.4 AV			1.00 H	0	84.1	6.3
3	#12770.00	45.2 PK	88.2	-43.0	2.87 H	118	30.9	14.3
4	#12770.00	35.6 AV	68.2	-32.6	2.87 H	118	21.3	14.3
5	19155.00	51.7 PK	74.0	-22.3	1.89 H	229	58.4	-6.7
6	19155.00	40.2 AV	54.0	-13.8	1.89 H	229	46.9	-6.7
7	#25540.00	55.3 PK	88.2	-32.9	1.05 H	285	57.0	-1.7
8	#25540.00	43.6 AV	68.2	-24.6	1.05 H	285	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	*6385.00	98.8 PK			1.75 V	247	92.5	6.3
2	*6385.00	89.4 AV			1.75 V	247	83.1	6.3
3	#12770.00	45.0 PK	88.2	-43.2	3.40 V	324	30.7	14.3
4	#12770.00	35.8 AV	68.2	-32.4	3.40 V	324	21.5	14.3
5	19155.00	51.4 PK	74.0	-22.6	2.20 V	150	58.1	-6.7
6	19155.00	40.0 AV	54.0	-14.0	2.20 V	150	46.7	-6.7
7	#25540.00	55.4 PK	88.2	-32.8	1.80 V	71	57.1	-1.7
8	#25540.00	43.2 AV	68.2	-25.0	1.80 V	71	44.9	-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.
6. " # ": The radiated frequency is out of the restricted band.

Channel	TX Channel 103	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.9 PK			1.84 H	259	91.1	6.8
2	*6465.00	89.7 AV			1.84 H	259	82.9	6.8
3	#12930.00	45.8 PK	88.2	-42.4	2.90 H	162	31.9	13.9
4	#12930.00	36.0 AV	68.2	-32.2	2.90 H	162	22.1	13.9
5	19395.00	52.1 PK	74.0	-21.9	1.96 H	203	58.9	-6.8
6	19395.00	40.5 AV	54.0	-13.5	1.96 H	203	47.3	-6.8
7	#25860.00	56.5 PK	88.2	-31.7	1.04 H	274	58.2	-1.7
8	#25860.00	43.9 AV	68.2	-24.3	1.04 H	274	45.6	-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	*6465.00	98.5 PK			1.77 V	252	91.7	6.8
2	*6465.00	89.0 AV			1.77 V	252	82.2	6.8
3	#12930.00	45.2 PK	88.2	-43.0	3.30 V	335	31.3	13.9
4	#12930.00	36.2 AV	68.2	-32.0	3.30 V	335	22.3	13.9
5	19395.00	52.2 PK	74.0	-21.8	2.14 V	159	59.0	-6.8
6	19395.00	40.7 AV	54.0	-13.3	2.14 V	159	47.5	-6.8
7	#25860.00	56.0 PK	88.2	-32.2	1.71 V	43	57.7	-1.7
8	#25860.00	43.7 AV	68.2	-24.5	1.71 V	43	45.4	-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.
6. " # ": The radiated frequency is out of the restricted band.

Channel	TX Channel 119	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	99.2 PK			1.00 H	0	92.0	7.2
2	*6545.00	89.4 AV			1.00 H	0	82.2	7.2
3	#13090.00	45.7 PK	88.2	-42.5	2.91 H	128	31.3	14.4
4	#13090.00	36.0 AV	68.2	-32.2	2.91 H	128	21.6	14.4
5	19635.00	51.5 PK	74.0	-22.5	1.93 H	209	57.6	-6.1
6	19635.00	40.0 AV	54.0	-14.0	1.93 H	209	46.1	-6.1
7	#26180.00	55.3 PK	88.2	-32.9	1.05 H	306	56.5	-1.2
8	#26180.00	43.5 AV	68.2	-24.7	1.05 H	306	44.7	-1.2
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	*6545.00	99.2 PK			3.80 V	279	92.0	7.2
2	*6545.00	89.0 AV			3.80 V	279	81.8	7.2
3	#13090.00	45.1 PK	88.2	-43.1	3.32 V	322	30.7	14.4
4	#13090.00	35.9 AV	68.2	-32.3	3.32 V	322	21.5	14.4
5	19635.00	51.1 PK	74.0	-22.9	2.11 V	163	57.2	-6.1
6	19635.00	39.8 AV	54.0	-14.2	2.11 V	163	45.9	-6.1
7	#26180.00	55.9 PK	88.2	-32.3	1.72 V	52	57.1	-1.2
8	#26180.00	43.4 AV	68.2	-24.8	1.72 V	52	44.6	-1.2

Remarks:

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

Channel	TX Channel 135	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	*6625.00	99.2 PK			1.00 H	0	91.7	7.5
2	*6625.00	89.7 AV			1.00 H	0	82.2	7.5
3	13250.00	45.1 PK	74.0	-28.9	2.89 H	174	29.7	15.4
4	13250.00	35.2 AV	54.0	-18.8	2.89 H	174	19.8	15.4
5	19875.00	52.4 PK	74.0	-21.6	1.91 H	215	58.5	-6.1
6	19875.00	40.5 AV	54.0	-13.5	1.91 H	215	46.6	-6.1
7	#26500.00	56.7 PK	88.2	-31.5	1.06 H	273	57.5	-0.8
8	#26500.00	44.2 AV	68.2	-24.0	1.06 H	273	45.0	-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	*6625.00	101.6 PK			3.81 V	276	94.1	7.5
2	*6625.00	91.1 AV			3.81 V	276	83.6	7.5
3	13250.00	44.9 PK	74.0	-29.1	3.38 V	299	29.5	15.4
4	13250.00	35.8 AV	54.0	-18.2	3.38 V	299	20.4	15.4
5	19875.00	51.3 PK	74.0	-22.7	2.23 V	164	57.4	-6.1
6	19875.00	39.9 AV	54.0	-14.1	2.23 V	164	46.0	-6.1
7	#26500.00	55.1 PK	88.2	-33.1	1.79 V	65	55.9	-0.8
8	#26500.00	42.9 AV	68.2	-25.3	1.79 V	65	43.7	-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.
6. " # ": The radiated frequency is out of the restricted band.

Channel	TX Channel 151	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	99.0 PK			2.05 H	258	91.7	7.3
2	*6705.00	89.3 AV			2.05 H	258	82.0	7.3
3	#13410.00	45.6 PK	88.2	-42.6	2.91 H	161	30.7	14.9
4	#13410.00	35.6 AV	68.2	-32.6	2.91 H	161	20.7	14.9
5	20115.00	51.9 PK	74.0	-22.1	1.88 H	212	57.4	-5.5
6	20115.00	40.4 AV	54.0	-13.6	1.88 H	212	45.9	-5.5
7	#26820.00	55.8 PK	88.2	-32.4	1.00 H	309	56.8	-1.0
8	#26820.00	43.3 AV	68.2	-24.9	1.00 H	309	44.3	-1.0
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	*6705.00	98.1 PK			3.92 V	278	90.8	7.3
2	*6705.00	89.8 AV			3.92 V	278	82.5	7.3
3	#13410.00	45.3 PK	88.2	-42.9	3.30 V	320	30.4	14.9
4	#13410.00	35.9 AV	68.2	-32.3	3.30 V	320	21.0	14.9
5	20115.00	52.1 PK	74.0	-21.9	2.13 V	130	57.6	-5.5
6	20115.00	40.5 AV	54.0	-13.5	2.13 V	130	46.0	-5.5
7	#26820.00	55.0 PK	88.2	-33.2	1.75 V	45	56.0	-1.0
8	#26820.00	42.6 AV	68.2	-25.6	1.75 V	45	43.6	-1.0

Remarks:

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

Channel	TX Channel 167	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	*6785.00	98.4 PK			2.02 H	258	90.9	7.5
2	*6785.00	88.7 AV			2.02 H	258	81.2	7.5
3	#13570.00	45.3 PK	88.2	-42.9	2.93 H	141	29.6	15.7
4	#13570.00	35.2 AV	68.2	-33.0	2.93 H	141	19.5	15.7
5	20355.00	52.0 PK	74.0	-22.0	1.90 H	221	57.6	-5.6
6	20355.00	40.1 AV	54.0	-13.9	1.90 H	221	45.7	-5.6
7	#27140.00	55.7 PK	88.2	-32.5	1.00 H	259	57.0	-1.3
8	#27140.00	43.2 AV	68.2	-25.0	1.00 H	259	44.5	-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	*6785.00	99.9 PK			3.78 V	280	92.4	7.5
2	*6785.00	90.5 AV			3.78 V	280	83.0	7.5
3	#13570.00	44.7 PK	88.2	-43.5	3.37 V	314	29.0	15.7
4	#13570.00	35.0 AV	68.2	-33.2	3.37 V	314	19.3	15.7
5	20355.00	52.6 PK	74.0	-21.4	2.09 V	150	58.2	-5.6
6	20355.00	41.1 AV	54.0	-12.9	2.09 V	150	46.7	-5.6
7	#27140.00	55.7 PK	88.2	-32.5	1.74 V	36	57.0	-1.3
8	#27140.00	43.3 AV	68.2	-24.9	1.74 V	36	44.6	-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.
6. " # ": The radiated frequency is out of the restricted band.

Channel	TX Channel 183	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	96.6 PK			1.97 H	258	89.0	7.6
2	*6865.00	87.5 AV			1.97 H	258	79.9	7.6
3	#13730.00	45.4 PK	88.2	-42.8	2.91 H	152	29.4	16.0
4	#13730.00	35.4 AV	68.2	-32.8	2.91 H	152	19.4	16.0
5	20595.00	52.3 PK	74.0	-21.7	1.93 H	197	57.0	-4.7
6	20595.00	40.1 AV	54.0	-13.9	1.93 H	197	44.8	-4.7
7	#27460.00	55.3 PK	88.2	-32.9	1.03 H	314	56.7	-1.4
8	#27460.00	43.0 AV	68.2	-25.2	1.03 H	314	44.4	-1.4
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	*6865.00	98.2 PK			3.71 V	278	90.6	7.6
2	*6865.00	89.6 AV			3.71 V	278	82.0	7.6
3	#13730.00	45.2 PK	88.2	-43.0	3.41 V	306	29.2	16.0
4	#13730.00	35.5 AV	68.2	-32.7	3.41 V	306	19.5	16.0
5	20595.00	51.6 PK	74.0	-22.4	2.25 V	163	56.3	-4.7
6	20595.00	40.2 AV	54.0	-13.8	2.25 V	163	44.9	-4.7
7	#27460.00	55.0 PK	88.2	-33.2	1.84 V	58	56.4	-1.4
8	#27460.00	43.0 AV	68.2	-25.2	1.84 V	58	44.4	-1.4

Remarks:

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

Channel	TX Channel 199	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	96.5 PK			1.94 H	264	88.6	7.9
2	*6945.00	88.4 AV			1.94 H	264	80.5	7.9
3	#13890.00	45.2 PK	88.2	-43.0	2.87 H	132	29.3	15.9
4	#13890.00	35.4 AV	68.2	-32.8	2.87 H	132	19.5	15.9
5	20835.00	52.2 PK	74.0	-21.8	1.91 H	223	57.0	-4.8
6	20835.00	40.6 AV	54.0	-13.4	1.91 H	223	45.4	-4.8
7	#27780.00	56.3 PK	88.2	-31.9	1.02 H	259	58.2	-1.9
8	#27780.00	43.4 AV	68.2	-24.8	1.02 H	259	45.3	-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	*6945.00	101.1 PK			3.90 V	277	93.2	7.9
2	*6945.00	92.3 AV			3.90 V	277	84.4	7.9
3	#13890.00	46.6 PK	88.2	-41.6	3.31 V	332	30.7	15.9
4	#13890.00	36.4 AV	68.2	-31.8	3.31 V	332	20.5	15.9
5	20835.00	51.3 PK	74.0	-22.7	2.19 V	145	56.1	-4.8
6	20835.00	39.8 AV	54.0	-14.2	2.19 V	145	44.6	-4.8
7	#27780.00	54.8 PK	88.2	-33.4	1.79 V	46	56.7	-1.9
8	#27780.00	42.7 AV	68.2	-25.5	1.79 V	46	44.6	-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.
6. " # ": The radiated frequency is out of the restricted band.

Channel	TX Channel 215	Peak Measurement	Peak Detector
Frequency Range	1GHz ~ 40GHz	Average Measurement	1/T and Peak Detector

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	97.5 PK			1.86 H	293	88.6	8.9
2	*7025.00	88.9 AV			1.86 H	293	80.0	8.9
3	#7125.00	55.3 PK	88.2	-32.9	1.86 H	293	45.7	9.6
4	#7125.00	46.3 AV	68.2	-21.9	1.86 H	293	36.7	9.6
5	#14050.00	49.2 PK	88.2	-39.0	2.92 H	150	32.9	16.3
6	#14050.00	40.1 AV	68.2	-28.1	2.92 H	150	23.8	16.3
7	21075.00	52.5 PK	74.0	-21.5	1.94 H	204	56.8	-4.3
8	21075.00	40.8 AV	54.0	-13.2	1.94 H	204	45.1	-4.3
9	#28100.00	56.7 PK	88.2	-31.5	1.10 H	268	58.1	-1.4
10	#28100.00	44.3 AV	68.2	-23.9	1.10 H	268	45.7	-1.4

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	*7025.00	101.9 PK			2.78 V	265	93.0	8.9
2	*7025.00	92.6 AV			2.78 V	265	83.7	8.9
3	#7125.00	55.6 PK	88.2	-32.6	2.78 V	265	46.0	9.6
4	#7125.00	46.7 AV	68.2	-21.5	2.78 V	265	37.1	9.6
5	#14050.00	49.8 PK	88.2	-38.4	3.36 V	317	33.5	16.3
6	#14050.00	39.3 AV	68.2	-28.9	3.36 V	317	23.0	16.3
7	21075.00	51.8 PK	74.0	-22.2	2.28 V	171	56.1	-4.3
8	21075.00	40.5 AV	54.0	-13.5	2.28 V	171	44.8	-4.3
9	#28100.00	55.2 PK	88.2	-33.0	1.80 V	58	56.6	-1.4
10	#28100.00	43.3 AV	68.2	-24.9	1.80 V	58	44.7	-1.4

Remarks:

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

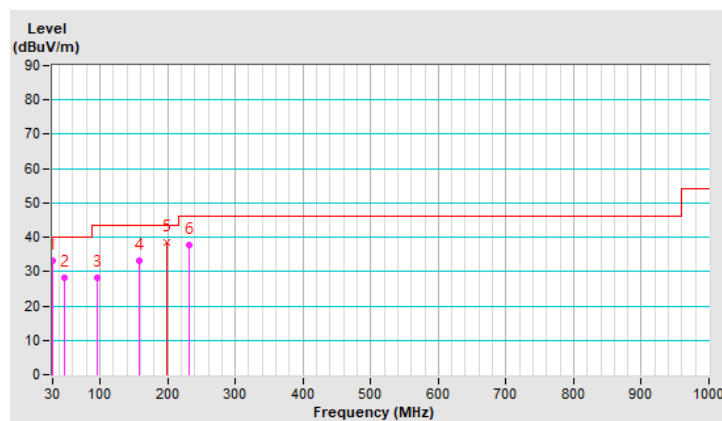
Below 1GHz Data:

Channel	TX Channel 7	Detector Function	Quasi-Peak (QP)
Frequency Range	9kHz ~ 1GHz		

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	30.39	33.2 QP	40.0	-6.8	1.00 H	160	42.0	-8.8
2	47.88	28.3 QP	40.0	-11.7	1.00 H	297	35.9	-7.6
3	95.37	28.2 QP	43.5	-15.3	1.00 H	268	40.7	-12.5
4	158.48	33.0 QP	43.5	-10.5	1.50 H	255	39.9	-6.9
5	199.48	38.4 QP	43.5	-5.1	1.00 H	318	48.5	-10.1
6	232.27	37.9 QP	46.0	-8.1	1.50 H	221	46.7	-8.8

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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

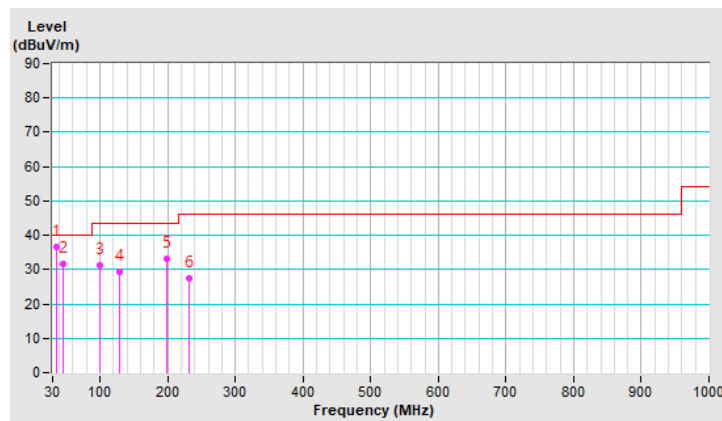


Channel	TX Channel 7	Detector Function	Quasi-Peak (QP)
Frequency Range	9kHz ~ 1GHz		

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	35.26	36.6 QP	40.0	-3.4	1.00 V	141	45.2	-8.6
2	45.33	31.5 QP	40.0	-8.5	1.00 V	34	39.2	-7.7
3	99.78	31.3 QP	43.5	-12.2	1.50 V	145	43.0	-11.7
4	129.66	29.5 QP	43.5	-14.0	1.00 V	184	37.6	-8.1
5	199.23	33.0 QP	43.5	-10.5	1.50 V	257	43.1	-10.1
6	232.65	27.6 QP	46.0	-18.4	1.00 V	115	36.4	-8.8

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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Ban Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

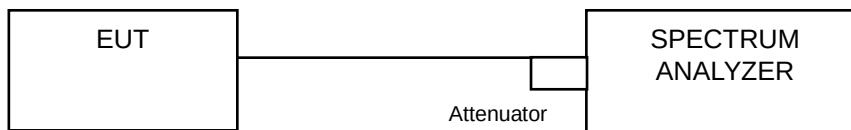
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

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

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

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

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

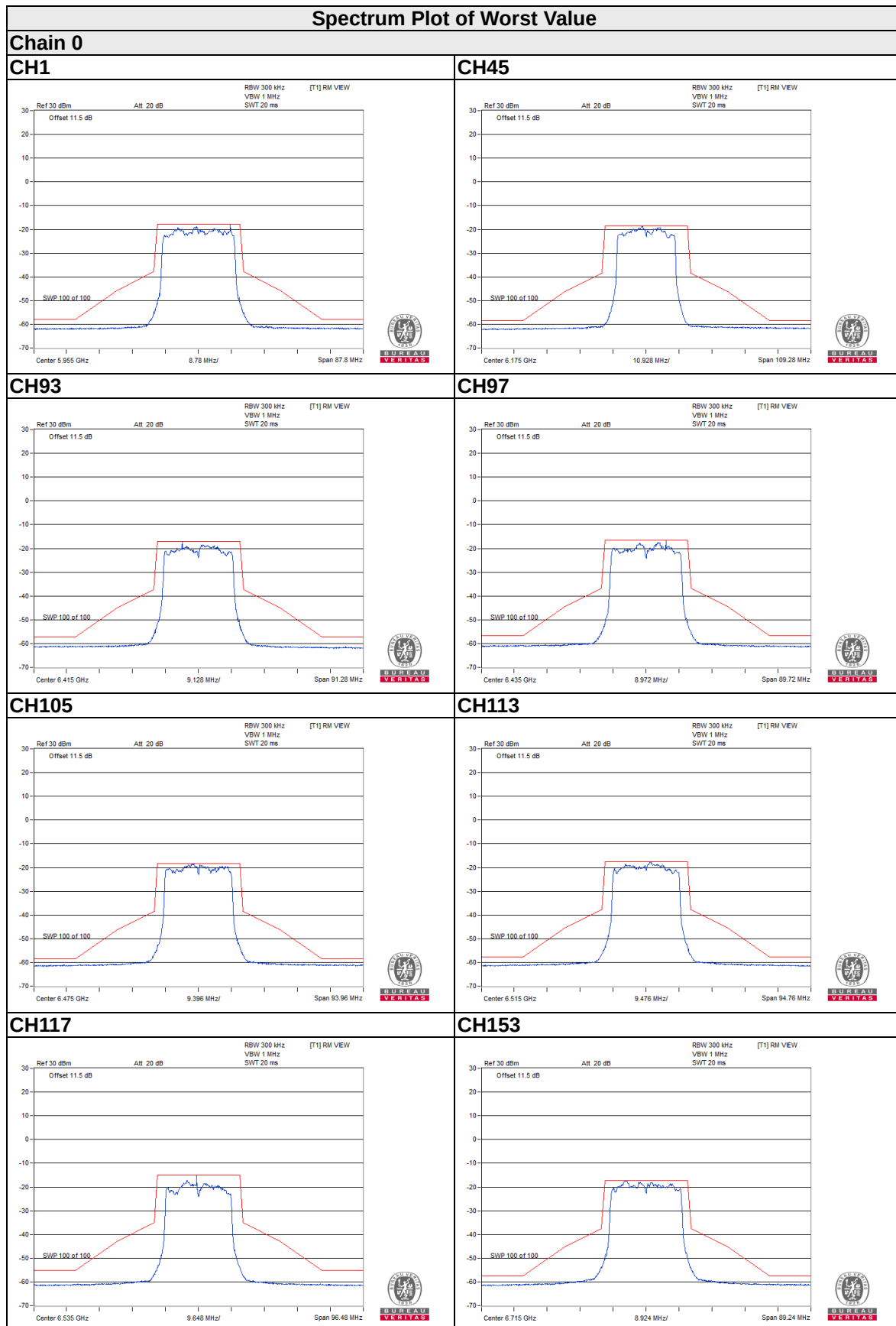
- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure: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

4.2.5 EUT Operating Condition

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

4.2.6 Test Results

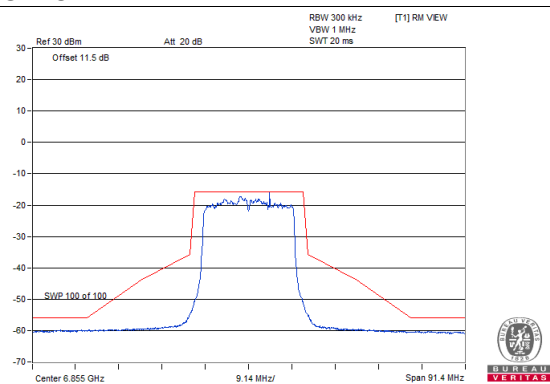
802.11ax (HE20)



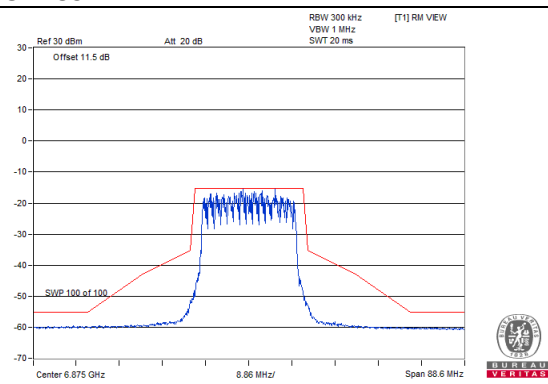
Spectrum Plot of Worst Value

Chain 0

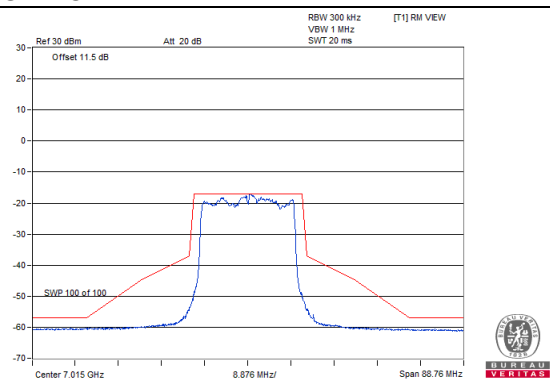
CH181



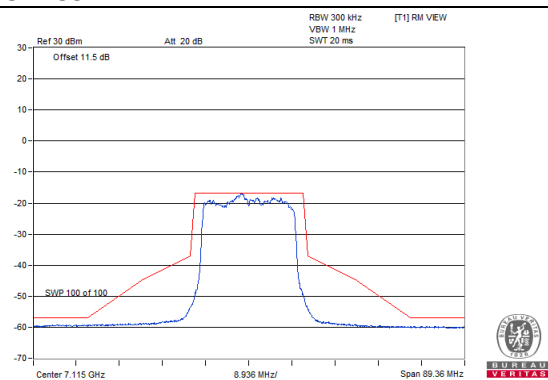
CH185



CH213



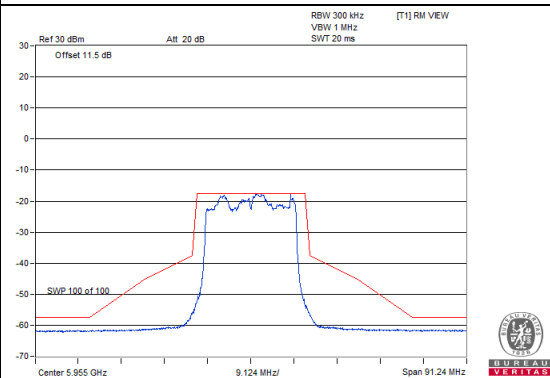
CH233



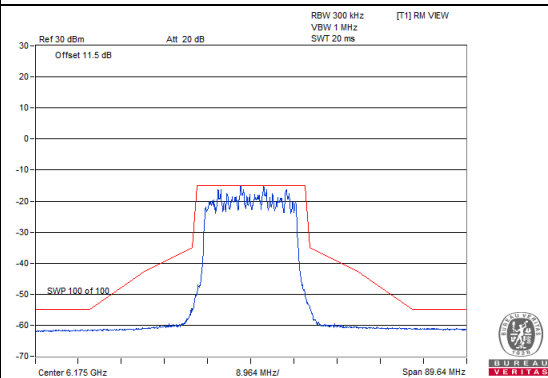
Spectrum Plot of Worst Value

Chain 1

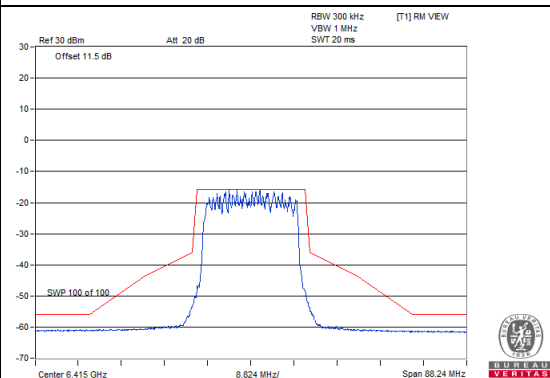
CH1



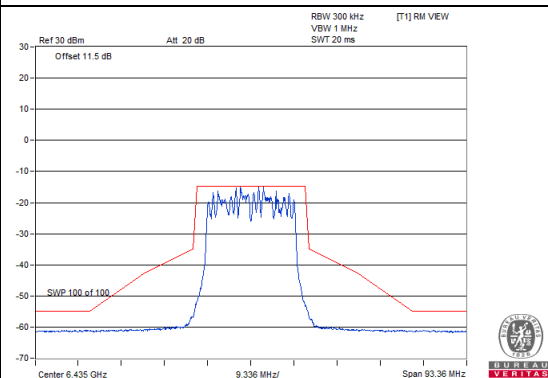
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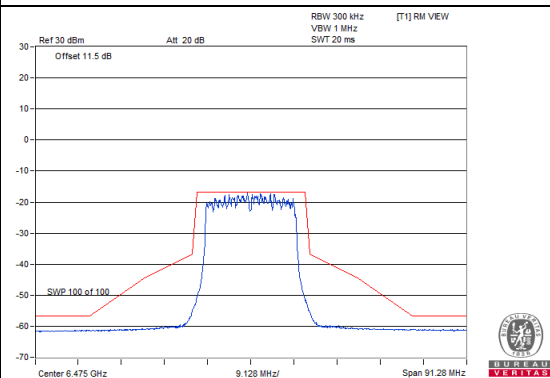
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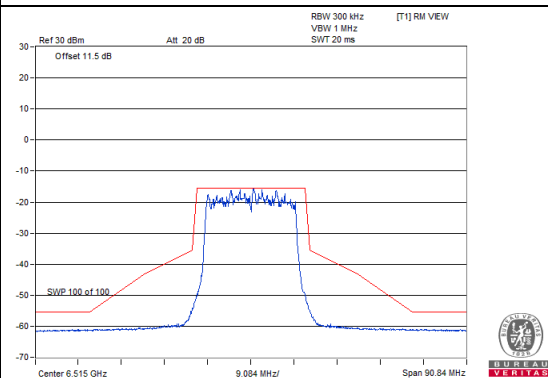
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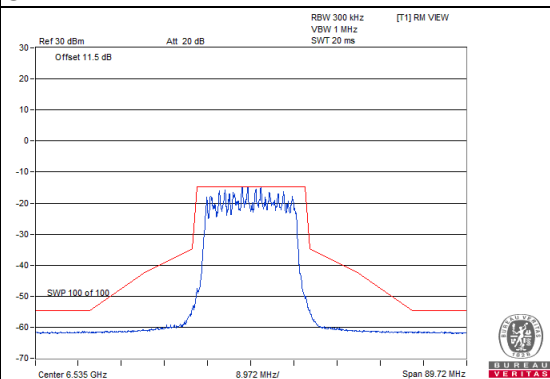
CH105



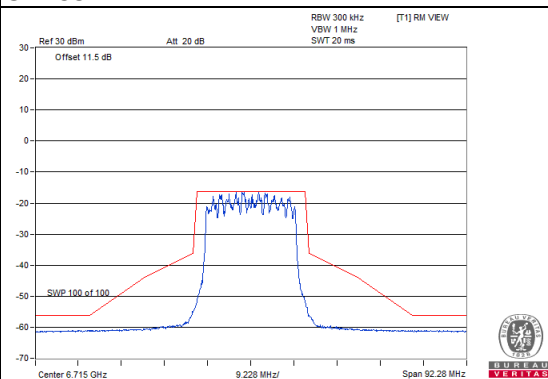
CH113



CH117



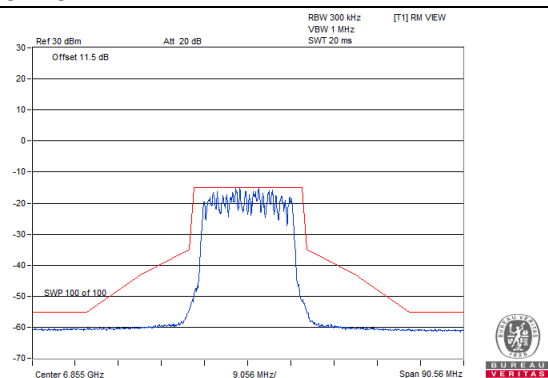
CH153



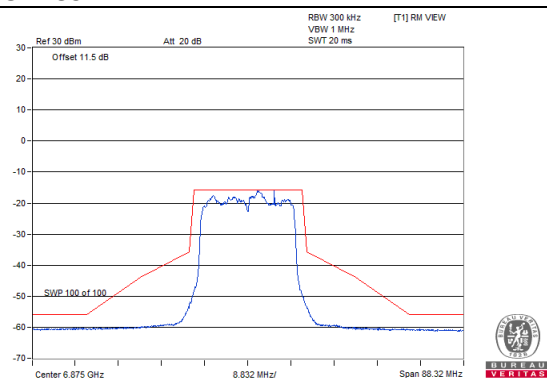
Spectrum Plot of Worst Value

Chain 1

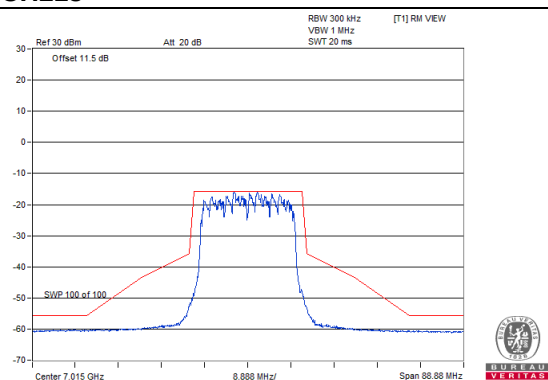
CH181



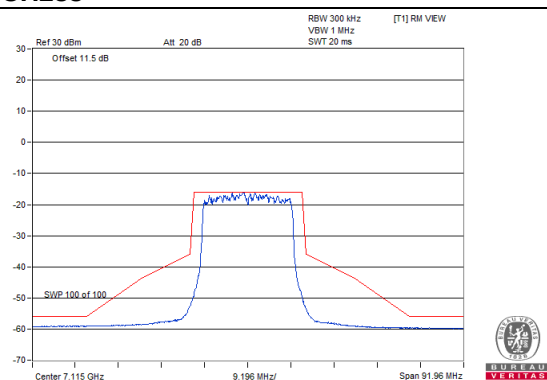
CH185



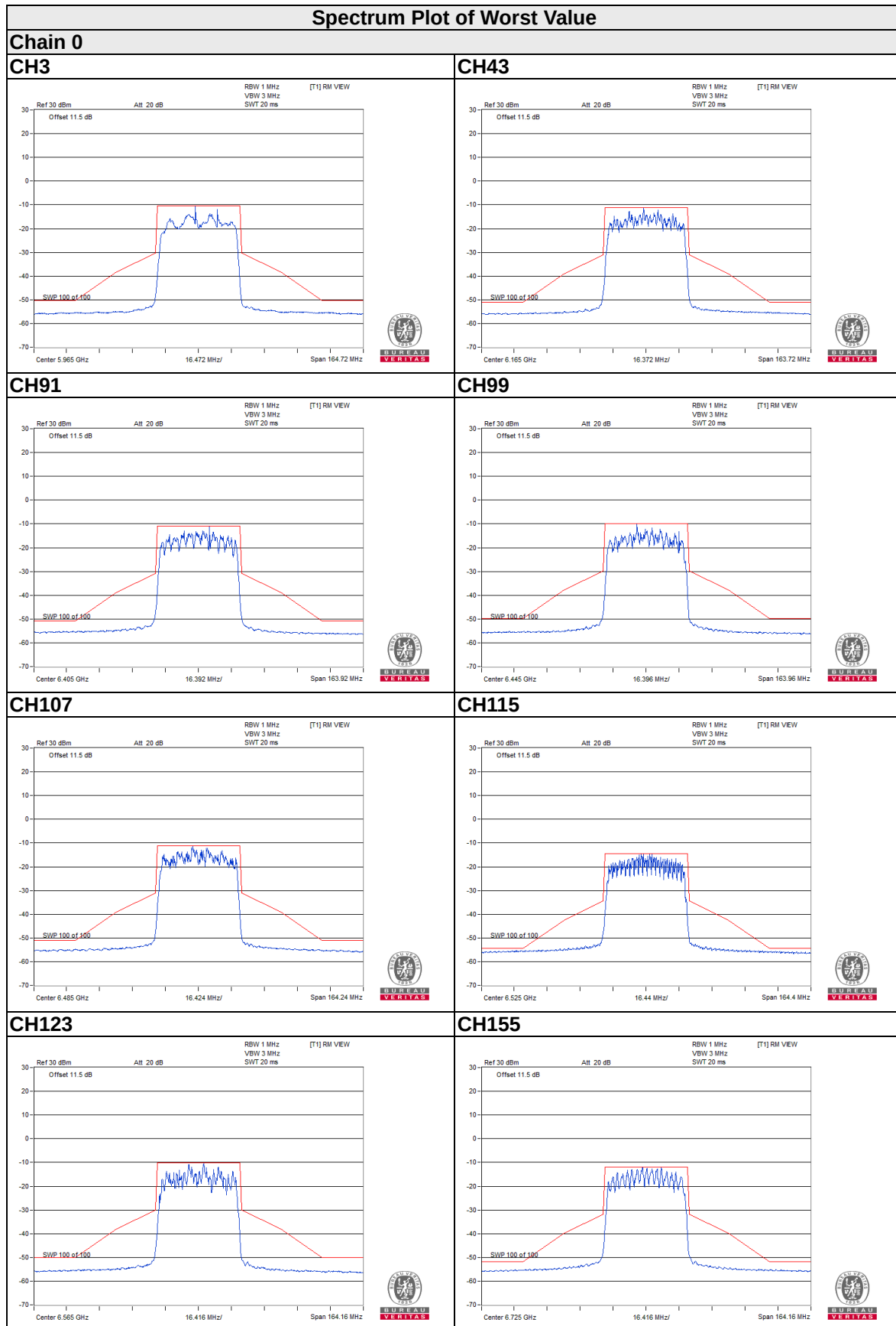
CH213



CH233



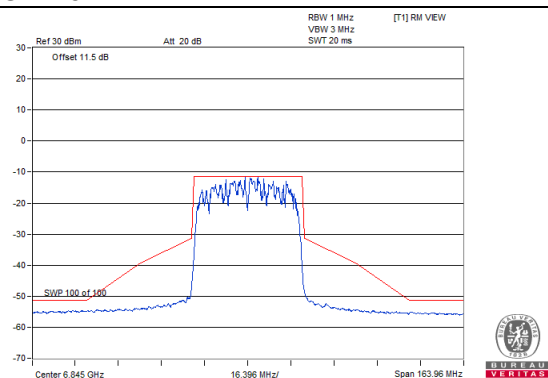
802.11ax (HE40)



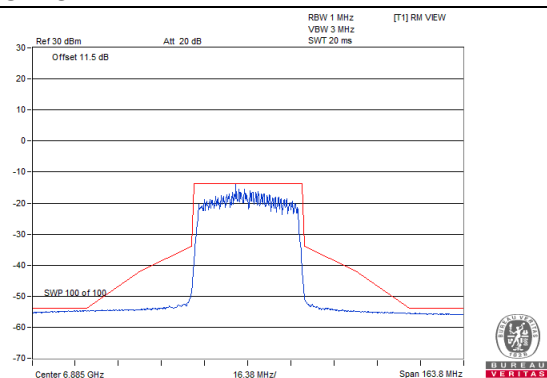
Spectrum Plot of Worst Value

Chain 0

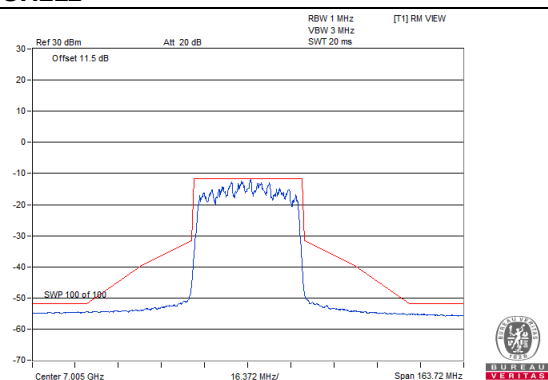
CH179



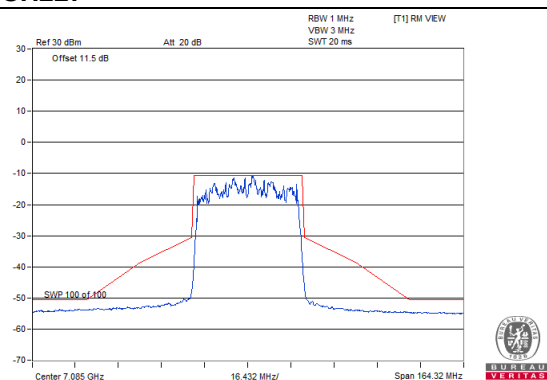
CH187



CH211



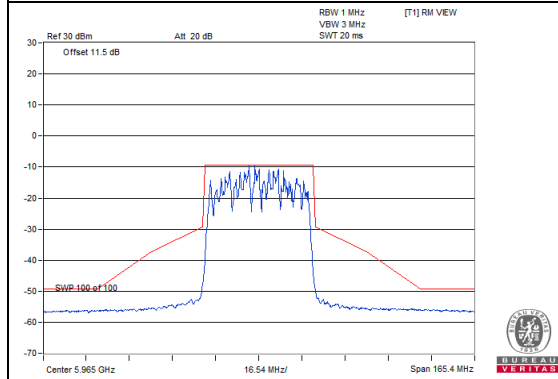
CH227



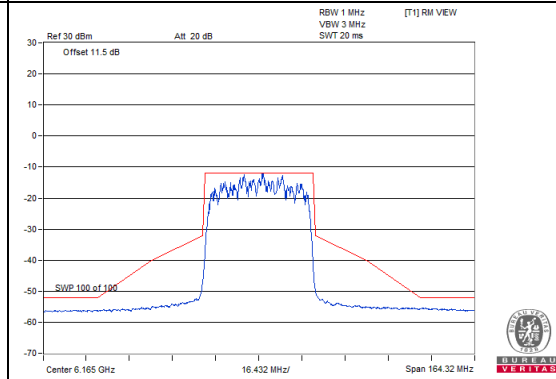
Spectrum Plot of Worst Value

Chain 1

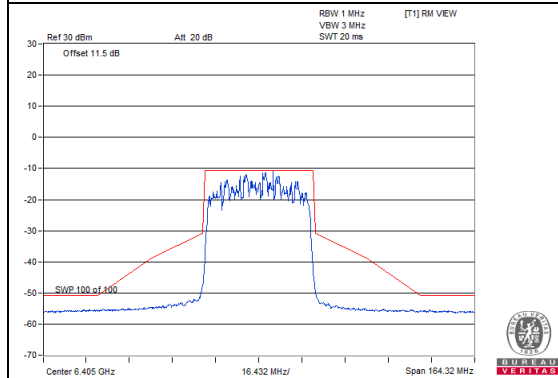
CH3



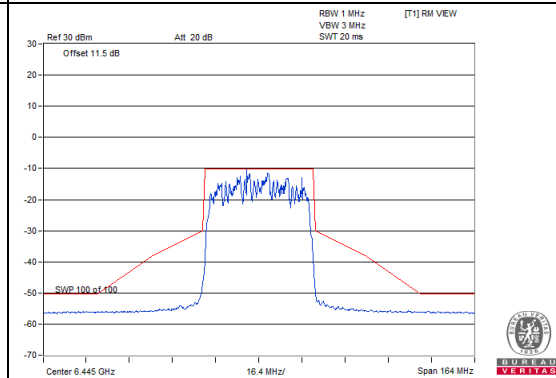
CH43



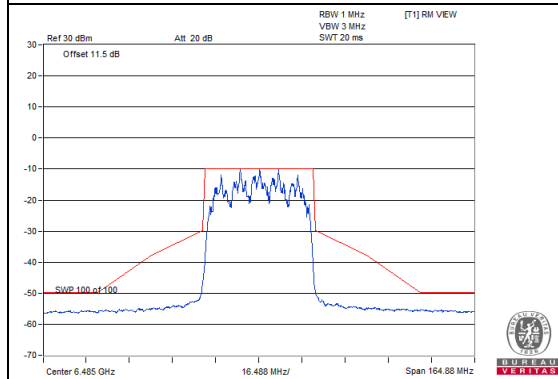
CH91



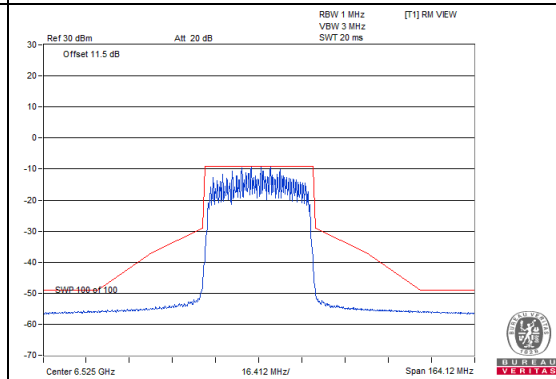
CH99



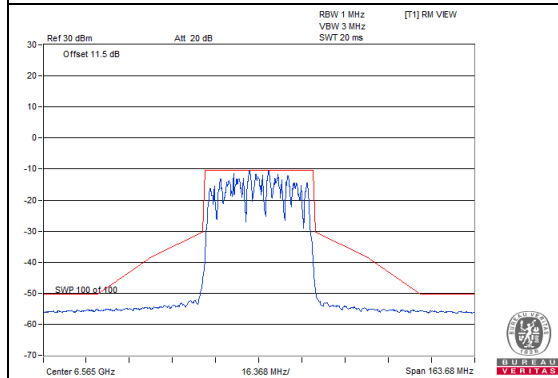
CH107



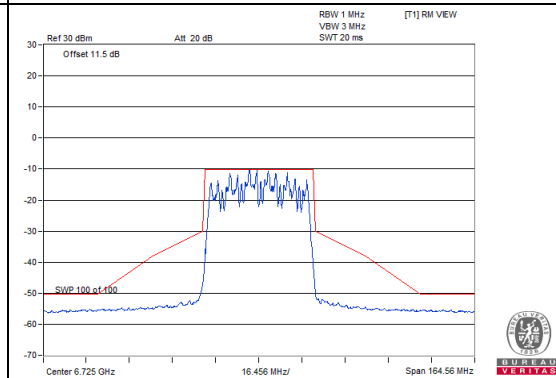
CH115



CH123



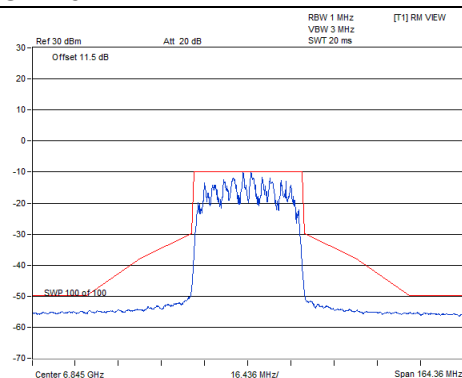
CH155



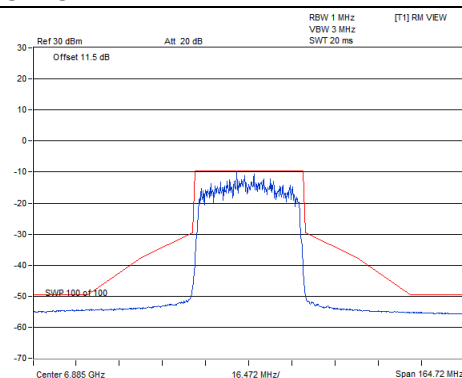
Spectrum Plot of Worst Value

Chain 1

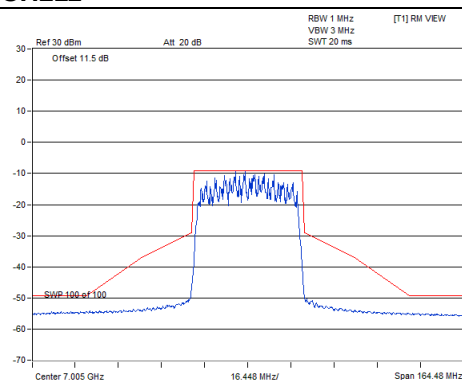
CH179



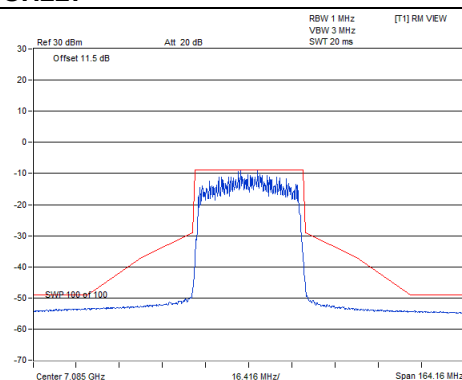
CH187



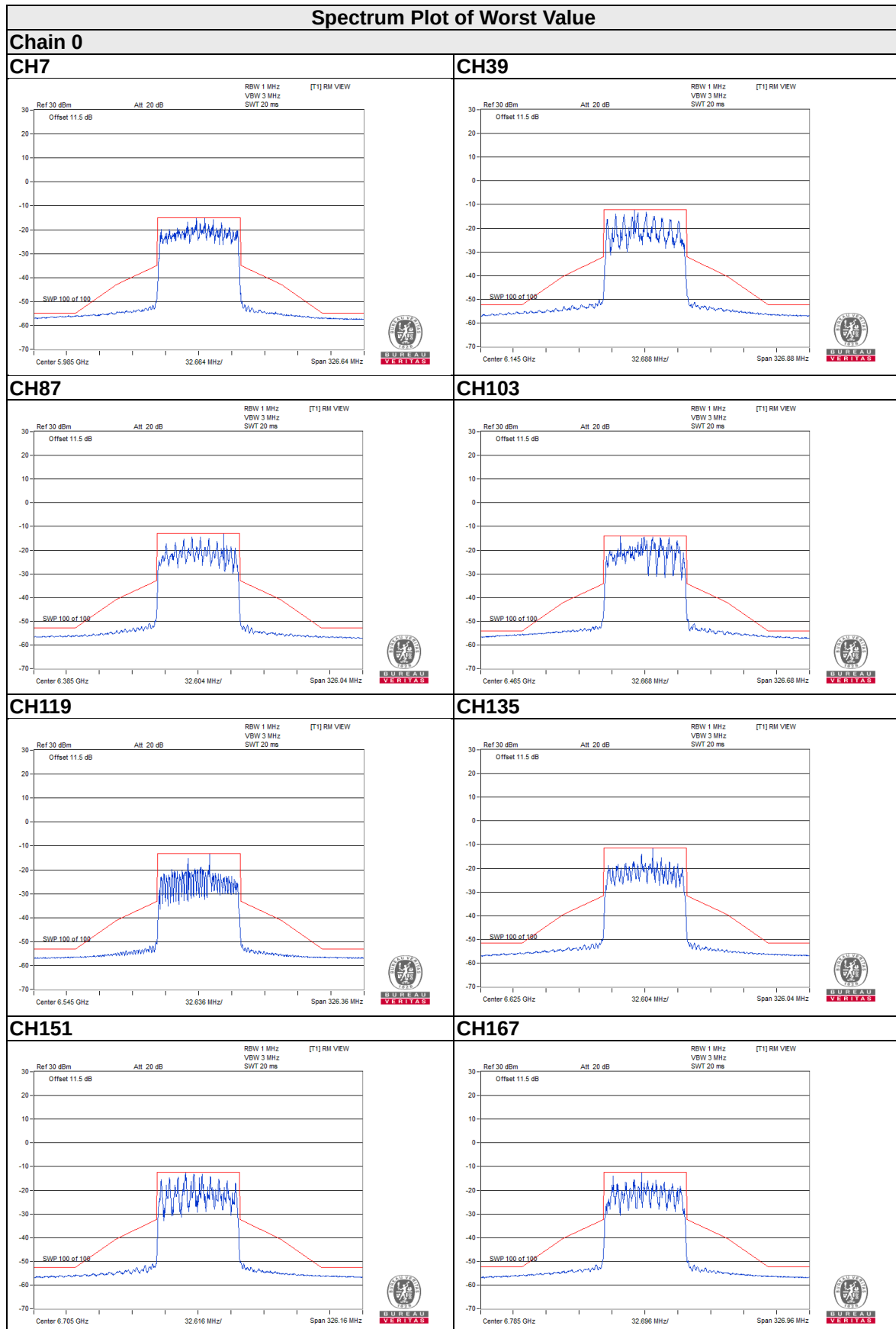
CH211



CH227



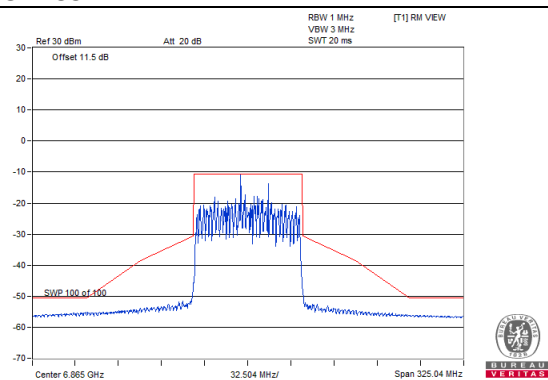
802.11ax (HE80)



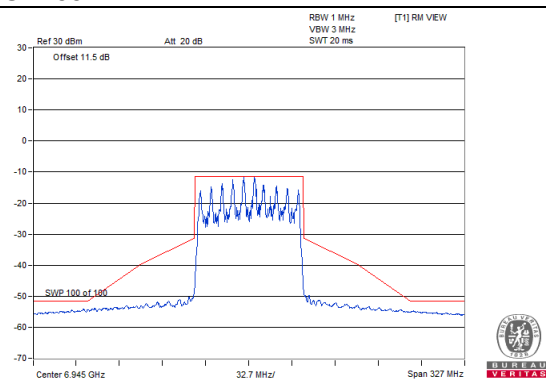
Spectrum Plot of Worst Value

Chain 0

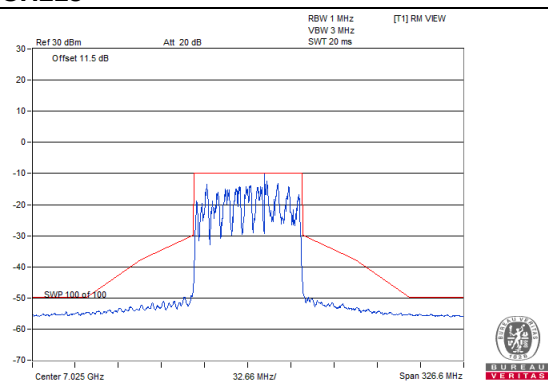
CH183



CH199



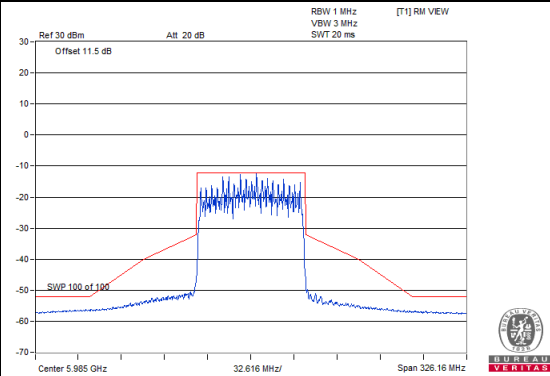
CH215



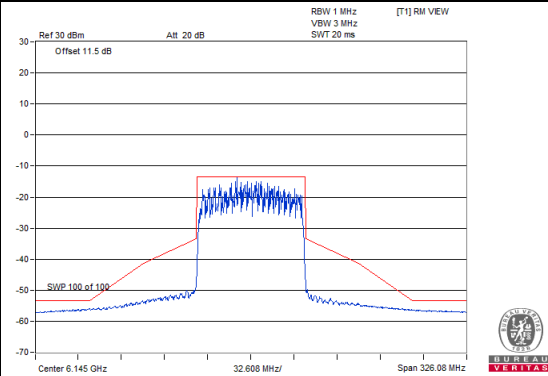
Spectrum Plot of Worst Value

Chain 1

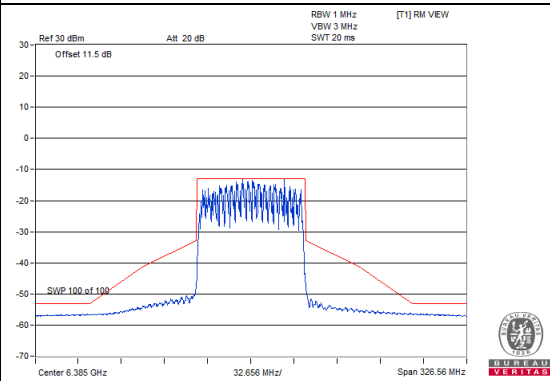
CH7



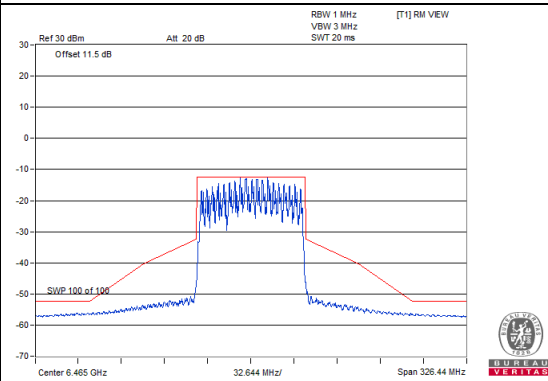
CH39



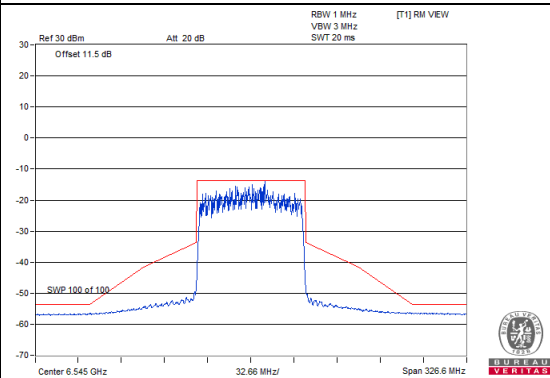
CH87



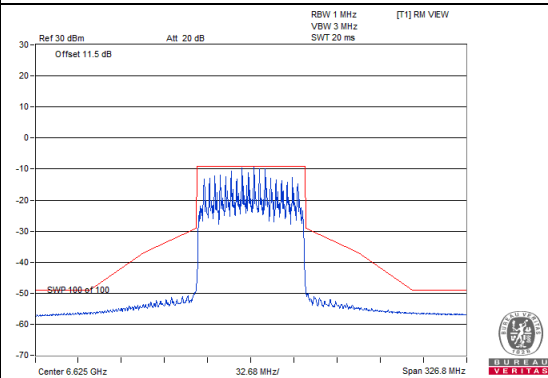
CH103



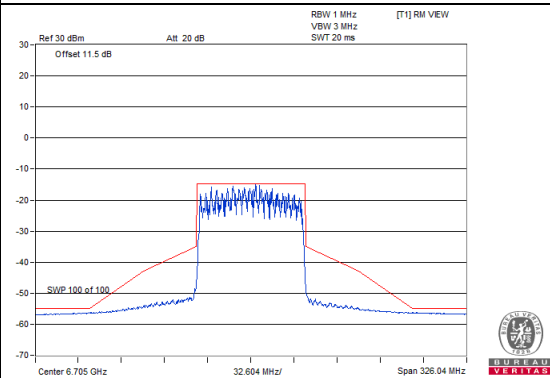
CH119



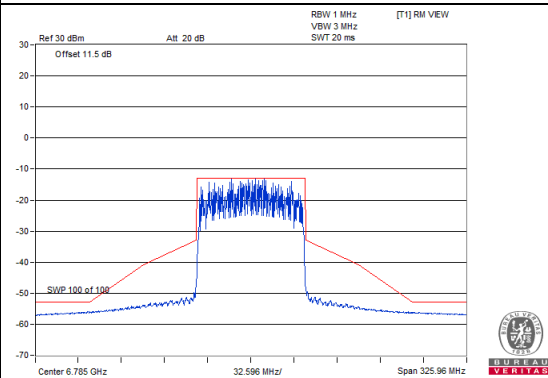
CH135



CH151



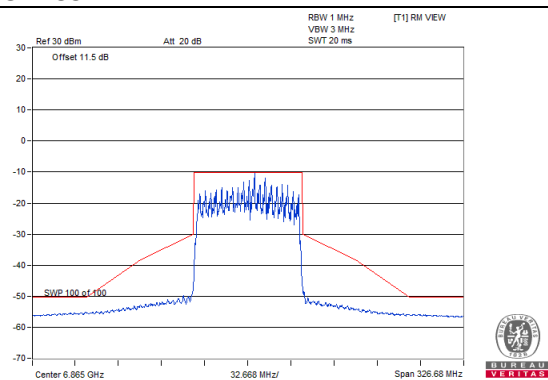
CH167



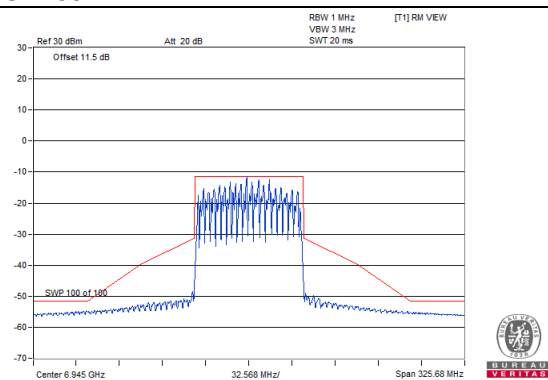
Spectrum Plot of Worst Value

Chain 1

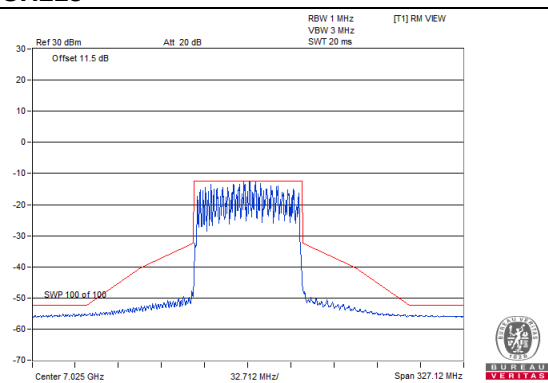
CH183



CH199



CH215



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

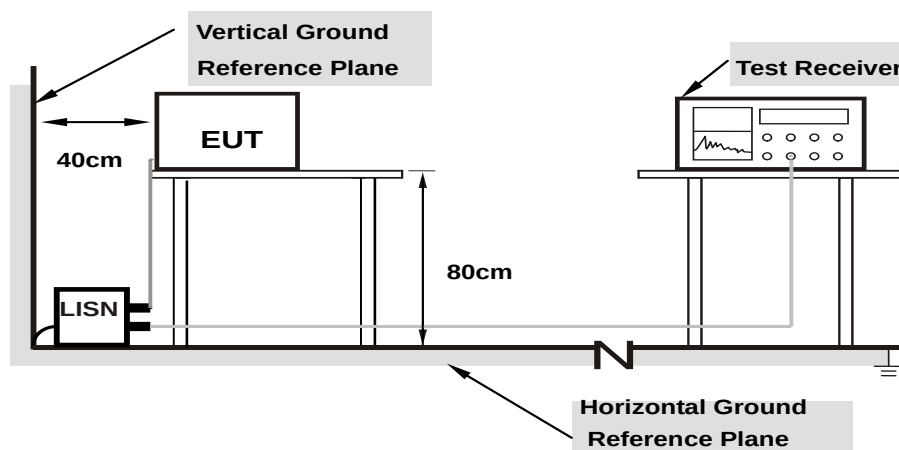
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Sep. 20, 2020

4.3.3 Test Procedure

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

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 Test Setup



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

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

4.3.5 EUT Operating Condition

Same as 4.1.6.

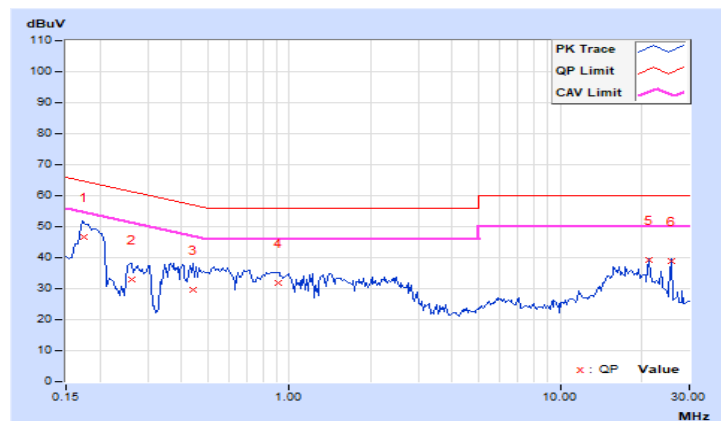
4.3.6 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	----------	-------------------	--------------------------------

No	Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17531	9.92	36.80	13.10	46.72	23.02	64.70	54.70	-17.98	-31.68
2	0.26291	9.94	22.94	2.17	32.88	12.11	61.34	51.34	-28.46	-39.23
3	0.44297	9.95	19.74	0.83	29.69	10.78	57.01	47.01	-27.32	-36.23
4	0.91244	9.98	21.94	7.53	31.92	17.51	56.00	46.00	-24.08	-28.49
5	21.16797	11.05	28.05	27.17	39.10	38.22	60.00	50.00	-20.90	-11.78
6	25.87109	11.18	27.84	27.62	39.02	38.80	60.00	50.00	-20.98	-11.20

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.

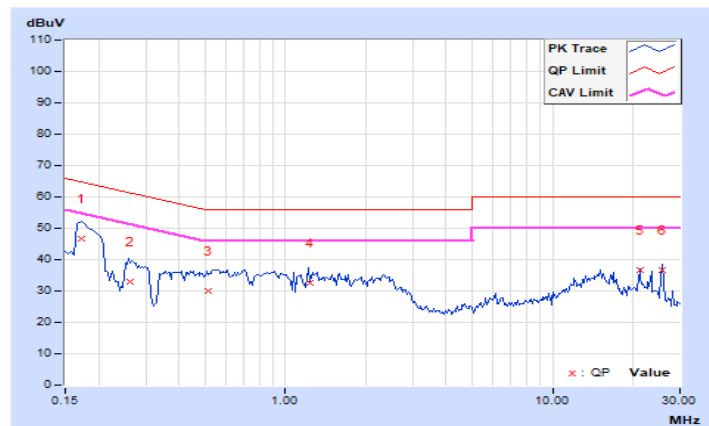


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17288	9.92	36.75	12.57	46.67	22.49	64.82	54.82	-18.15	-32.33
2	0.26177	9.94	23.08	0.47	33.02	10.41	61.38	51.38	-28.36	-40.97
3	0.51419	9.96	20.09	4.87	30.05	14.83	56.00	46.00	-25.95	-31.17
4	1.22863	10.00	22.56	7.55	32.56	17.55	56.00	46.00	-23.44	-28.45
5	21.16797	10.78	25.73	24.95	36.51	35.73	60.00	50.00	-23.49	-14.27
6	25.87109	10.86	25.68	25.48	36.54	36.34	60.00	50.00	-23.46	-13.66

REMARKS:

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



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	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} ;

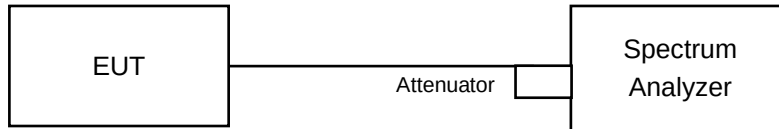
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

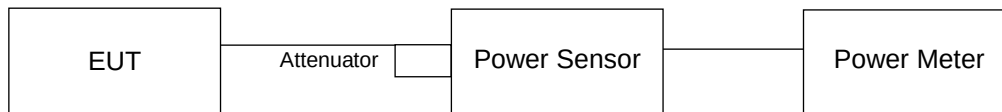
4.4.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & channel straddling 6875MHz:



For other channels:



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & 6875MHz:

Method SA-2

- a. Set span to encompass the emission bandwidth (EBW) of the signal.
- b. Set RBW =1MHz.
- c. Set the VBW $\geq 3 \times$ RBW.
- d. Number of points in sweep ≥ 2 Span / RBW.
- e. Sweep time = auto.
- f. Detector = RMS.
- g. Trace average at least 100 traces in power averaging mode
- h. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
- i. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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. Duty factor is not added to measured value.

4.4.5 EUT Operating Condition

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

4.4.6 Test Result

Power Output:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
1	5955	2.28	2.26	3.373	5.28	3.31	7.23	8.59	24	Pass
45	6175	2.34	2.21	3.377	5.29	3.31	7.244	8.60	24	Pass
93	6415	2.64	2.65	3.677	5.65	3.31	7.87	8.96	24	Pass
97	6435	2.77	2.43	3.642	5.61	3.31	7.798	8.92	24	Pass
105	6475	2.63	2.26	3.515	5.46	3.31	7.534	8.77	24	Pass
113	6515	2.98	2.81	3.896	5.91	3.31	8.356	9.22	24	Pass
117	6535	3.21	2.15	3.735	5.72	3.31	7.998	9.03	24	Pass
153	6715	3.04	2.40	3.752	5.74	3.31	8.035	9.05	24	Pass
181	6855	2.95	2.67	3.822	5.82	3.31	8.185	9.13	24	Pass
*185 (U-NII-7 Band)	6875	-1.51	-1.68	1.5427	1.88	3.31	3.304	5.19	24	Pass
*185 (U-NII-8 Band)	6875	-1.64	-1.87	1.4872	1.72	3.31	3.184	5.03	24	Pass
213	7015	2.74	2.44	3.633	5.60	3.31	7.78	8.91	24	Pass
233	7115	2.22	3.15	3.733	5.72	3.31	7.998	9.03	24	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
3	5965	5.02	5.73	6.918	8.40	3.31	14.83	11.71	24	Pass
43	6165	5.44	5.69	7.206	8.58	3.31	15.453	11.89	24	Pass
91	6405	5.36	5.62	7.083	8.50	3.31	15.171	11.81	24	Pass
99	6445	5.86	5.70	7.57	8.79	3.31	16.218	12.10	24	Pass
107	6485	5.74	5.64	7.414	8.70	3.31	15.885	12.01	24	Pass
*115 (U-NII-6 Band)	6525	1.28	1.25	3.172	5.01	3.31	6.792	8.32	24	Pass
*115 (U-NII-7 Band)	6525	1.15	1.23	3.117	4.94	3.31	6.683	8.25	24	Pass
123	6565	5.71	5.80	7.526	8.77	3.31	16.144	12.08	24	Pass
155	6725	5.76	5.89	7.649	8.84	3.31	16.406	12.15	24	Pass
179	6845	5.72	5.71	7.456	8.73	3.31	15.996	12.04	24	Pass
*187 (U-NII-7 Band)	6885	-3.52	-3.76	1.0255	0.11	3.31	2.198	3.42	24	Pass
*187 (U-NII-8 Band)	6885	3.22	2.89	4.793	6.81	3.31	10.28	10.12	24	Pass
211	7005	5.54	5.27	6.946	8.42	3.31	14.894	11.73	24	Pass
227	7085	5.57	5.80	7.408	8.70	3.31	15.89	12.01	24	Pass

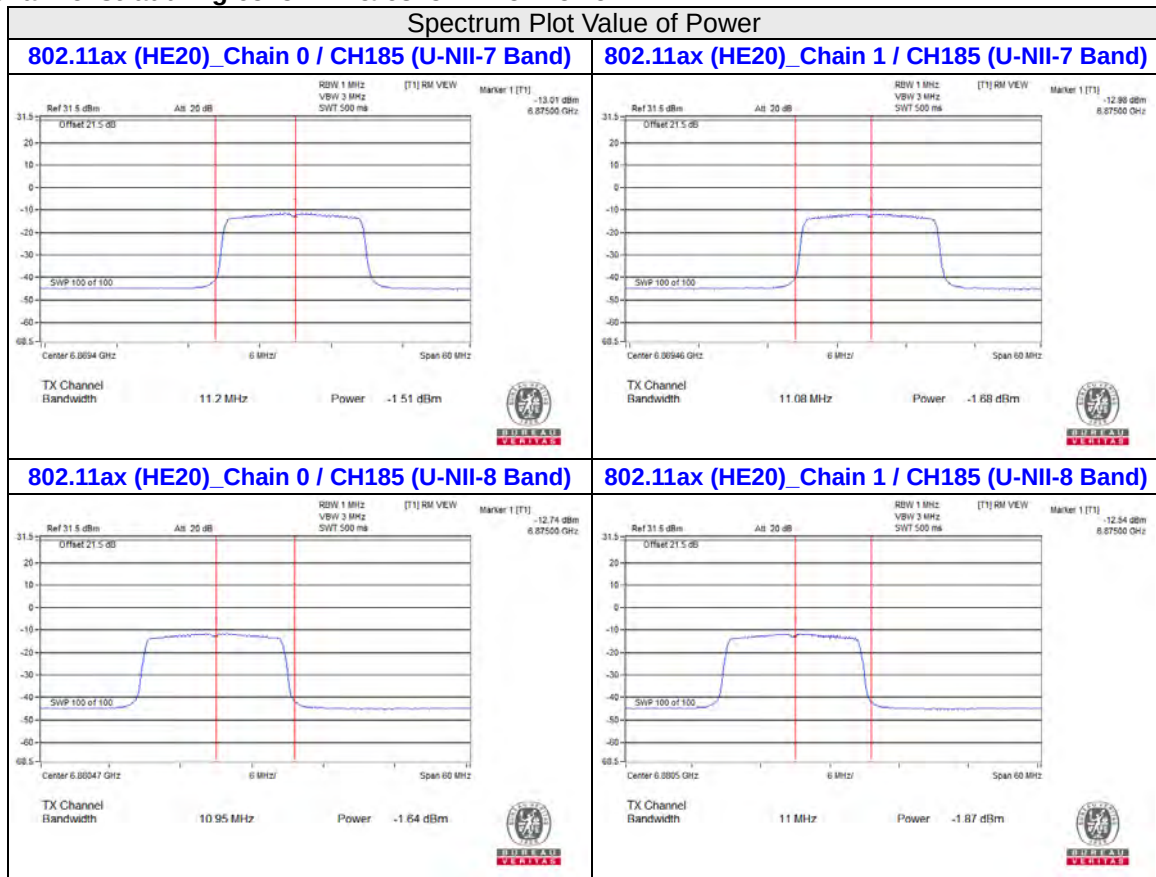
Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
7	5985	8.82	8.96	15.491	11.90	3.31	33.19	15.21	24	Pass
39	6145	8.91	8.49	14.844	11.72	3.31	31.842	15.03	24	Pass
87	6385	8.49	8.72	14.51	11.62	3.31	31.117	14.93	24	Pass
103	6465	8.93	8.76	15.333	11.86	3.31	32.885	15.17	24	Pass
*119 (U-NII-6 Band)	6545	-0.18	-0.36	2.5875	4.13	3.31	5.546	7.44	24	Pass
*119 (U-NII-7 Band)	6545	5.95	6.09	11.011	10.42	3.31	23.605	13.73	24	Pass
135	6625	8.67	8.77	14.896	11.73	3.31	31.915	15.04	24	Pass
151	6705	8.36	8.56	14.033	11.47	3.31	30.061	14.78	24	Pass
167	6785	8.38	8.62	14.164	11.51	3.31	30.339	14.82	24	Pass
*183 (U-NII-7 Band)	6865	5.35	5.78	9.927	9.97	3.31	21.281	13.28	24	Pass
*183 (U-NII-8 Band)	6865	2.17	2.65	4.802	6.81	3.31	10.28	10.12	24	Pass
199	6945	8.92	8.42	14.749	11.69	3.31	31.623	15.00	24	Pass
215	7025	8.99	8.15	14.456	11.60	3.31	30.974	14.91	24	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

For channel straddling 6525MHz & 6875MHz of Power

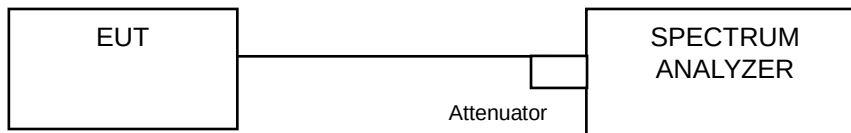






4.5 Emission Bandwidth Measurement

4.5.1 Test Setup



4.5.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.3 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

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

FOR 26dB BANDWIDTH

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

4.5.4 Test Results

99% Occupied Bandwidth:

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
1	5955	19.08	18.96	320
45	6175	18.96	18.96	320
93	6415	19.08	19.08	320
97	6435	18.96	19.08	320
105	6475	19.08	19.2	320
113	6515	19.08	18.96	320
117	6535	19.08	19.08	320
153	6715	18.96	19.08	320
181	6855	19.2	19.08	320
185 (U-NII-7 Band)	6875	9.72	9.72	320
185 (U-NII-8 Band)	6875	9.36	9.48	320
213	7015	19.08	19.08	320
233	7115	19.08	19.08	320

For channel straddling 6875MHz:

Total Values

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
185	6875	19.08	19.2

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
3	5965	37.92	37.68	320
43	6165	37.92	37.44	320
91	6405	37.68	37.92	320
99	6445	37.68	37.68	320
107	6485	37.68	37.92	320
115 (U-NII-6 Band)	6525	19.2	19.2	320
115 (U-NII-7 Band)	6525	18.96	18.72	320
123	6565	37.68	37.68	320
155	6725	37.68	37.92	320
179	6845	37.92	37.68	320
187 (U-NII-7 Band)	6885	8.96	8.96	320
187 (U-NII-8 Band)	6885	28.72	28.72	320
211	7005	37.68	37.92	320
227	7085	37.92	37.92	320

For channel straddling 6525MHz & 6875MHz:

Total Values

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
115	6525	38.16	37.92
187	6885	37.68	37.68

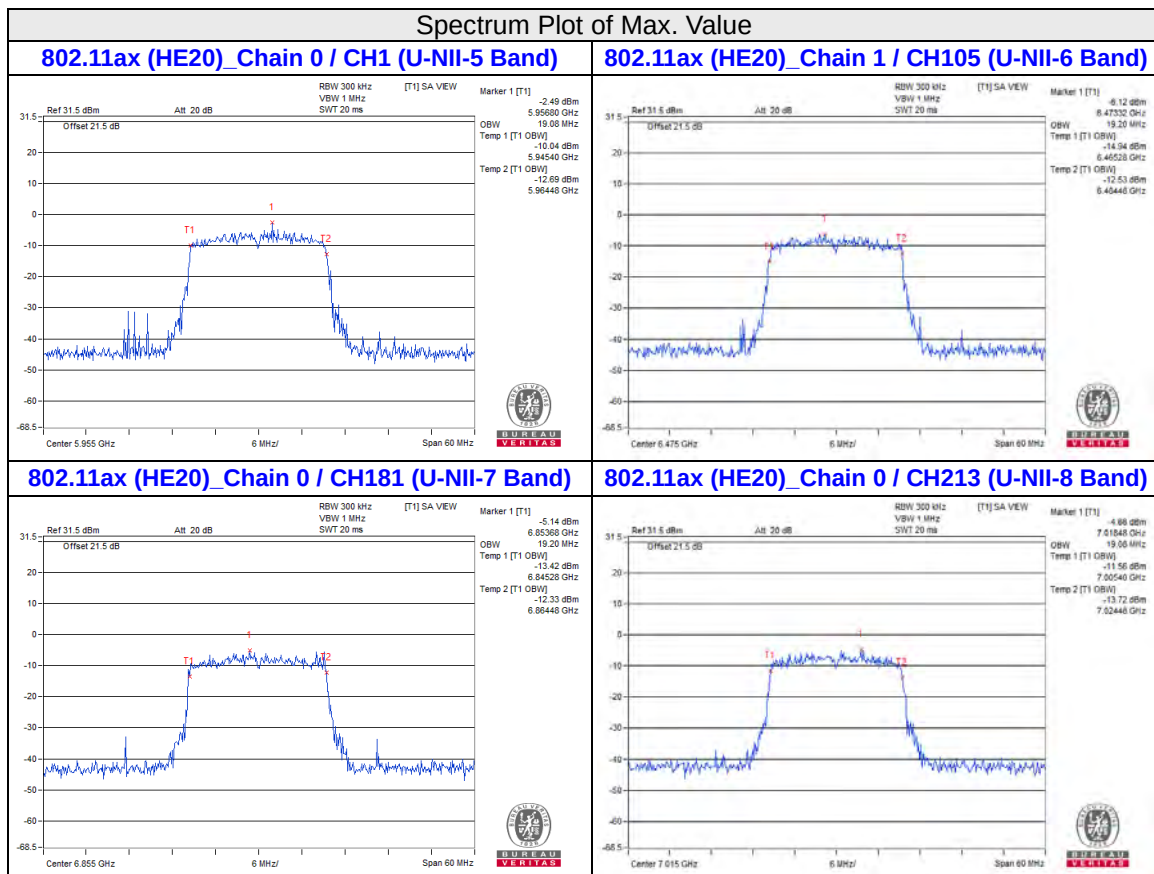
802.11ax (HE80)

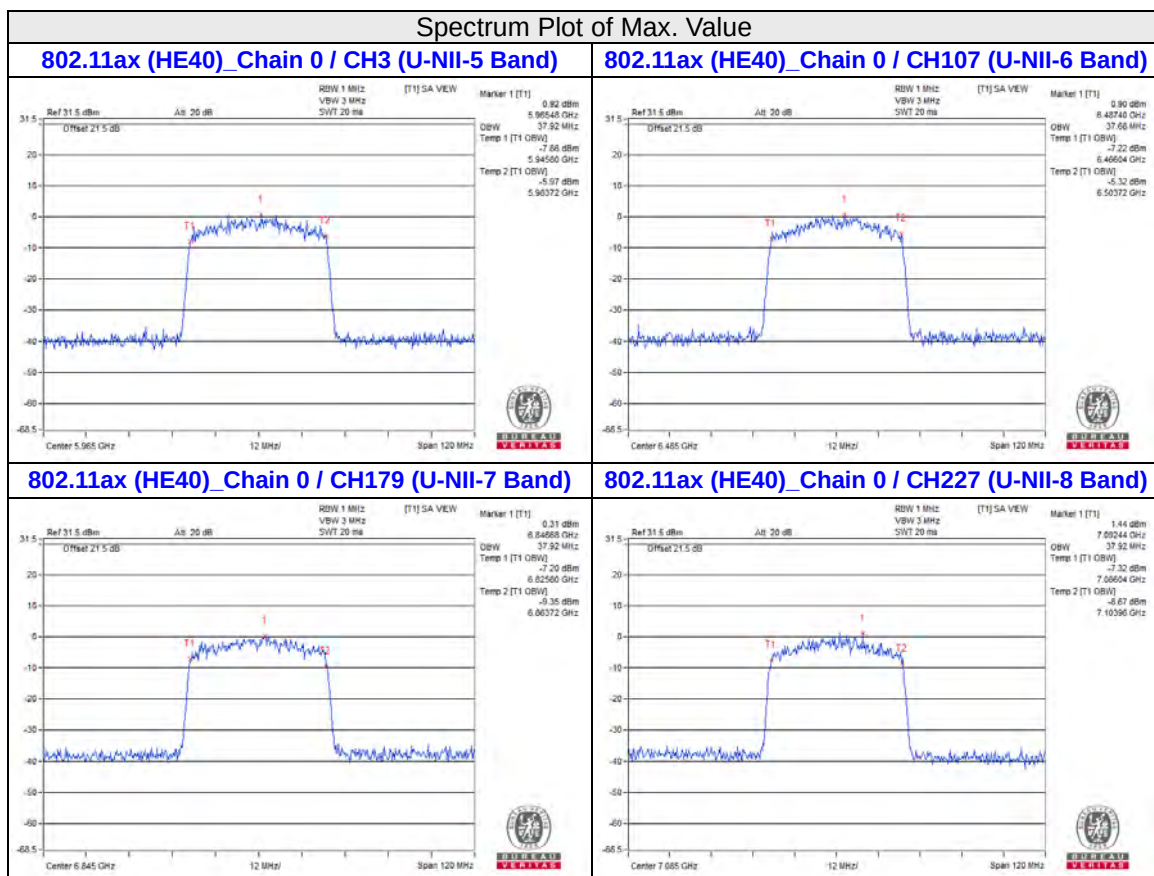
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
7	5985	77.28	76.8	320
39	6145	77.28	77.28	320
87	6385	76.8	76.8	320
103	6465	77.28	76.8	320
119 (U-NII-6 Band)	6545	18.4	18.4	320
119 (U-NII-7 Band)	6545	58.4	57.92	320
135	6625	77.28	77.28	320
151	6705	77.28	77.28	320
167	6785	76.8	76.8	320
183 (U-NII-7 Band)	6865	48.88	48.4	320
183 (U-NII-8 Band)	6865	28.4	27.92	320
199	6945	76.8	77.28	320
215	7025	76.8	76.8	320

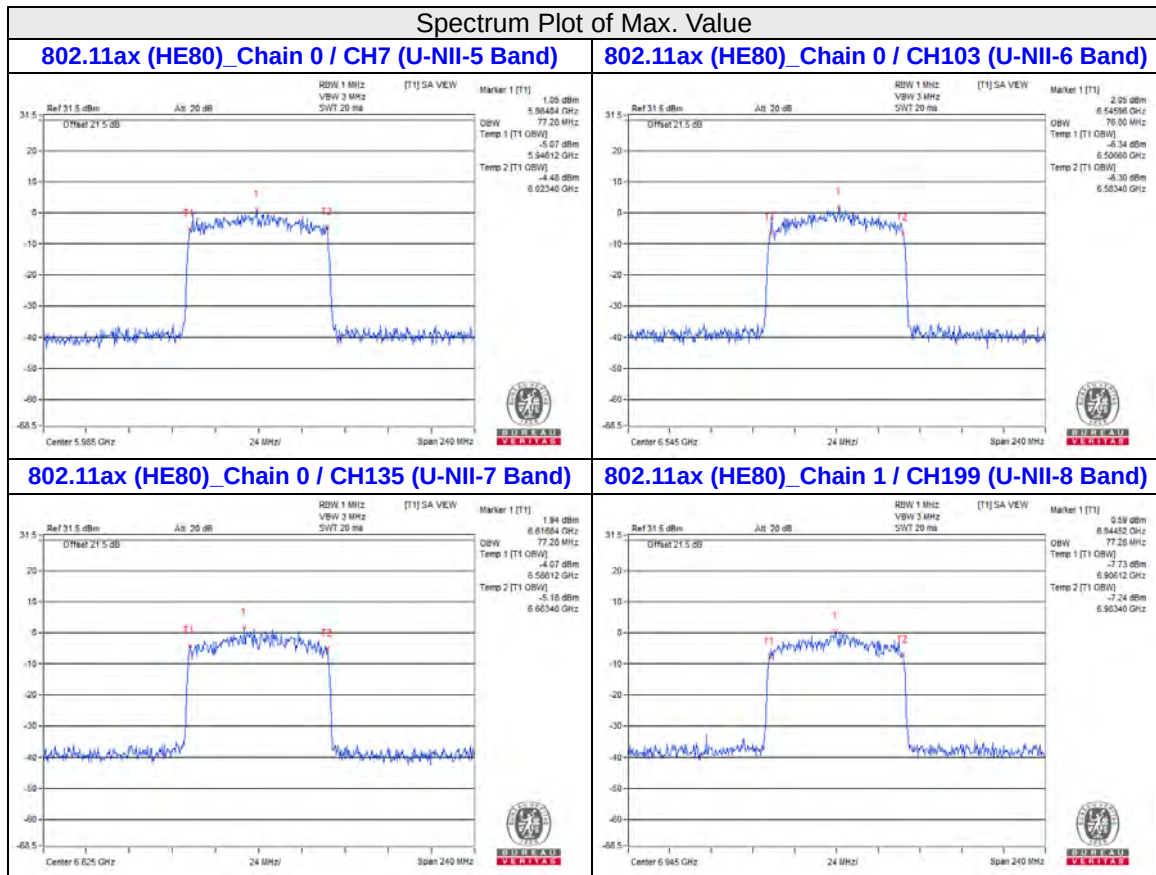
For channel straddling 6525MHz & 6875MHz:

Total Values

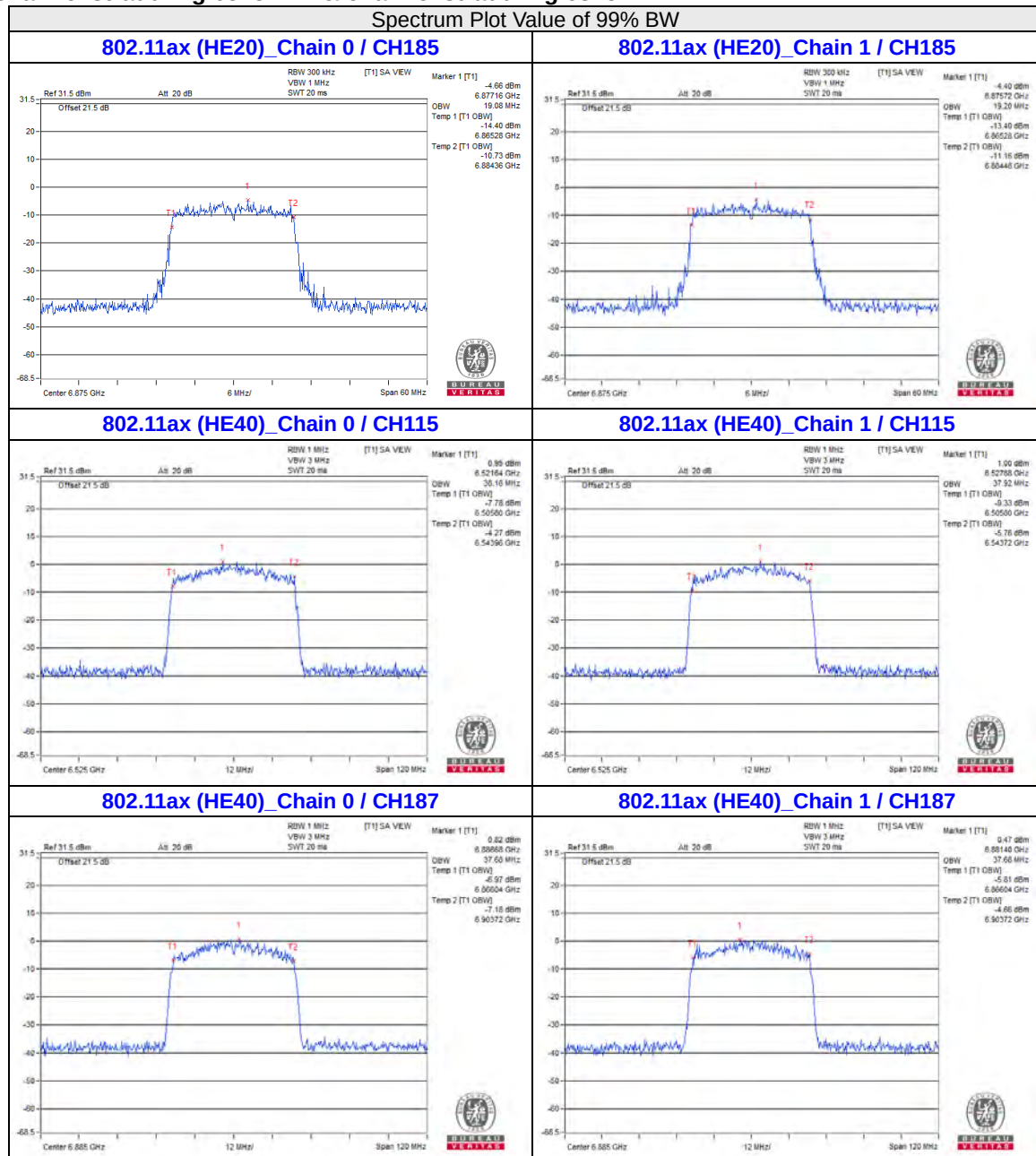
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
119	6545	76.8	76.32
183	6865	77.28	76.32

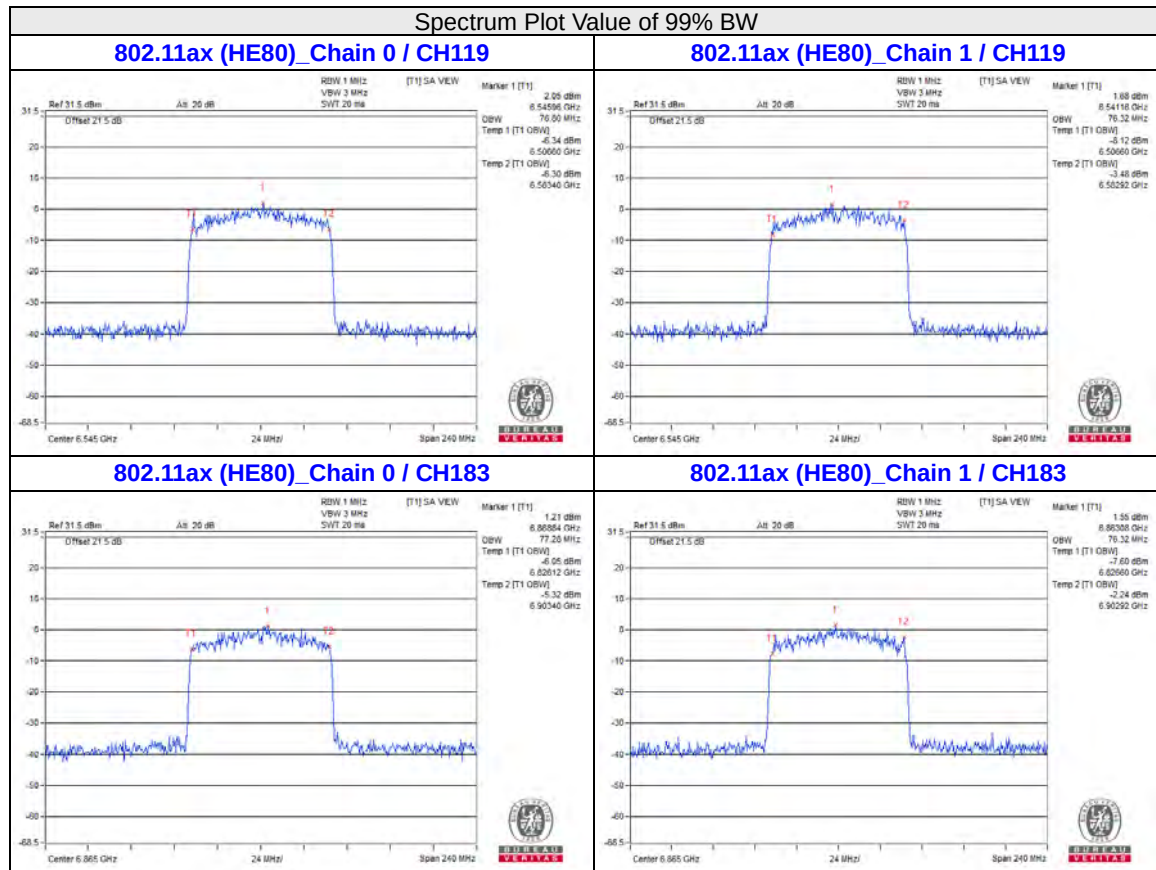






For channel straddling 6525MHz & channel straddling 6875MHz:





Note:

- For U-NII-6 channel straddling 6525MHz bandwidth = 6525MHz - Temp 1
- For U-NII-7 channel straddling 6525MHz bandwidth = Temp 2 - 6525MHz
- For U-NII-7 channel straddling 6875MHz bandwidth = 6875MHz - Temp 1
- For U-NII-8 channel straddling 6875MHz bandwidth = Temp 2 - 6875MHz

26dB Bandwidth:

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
1	5955	21.95	22.81	320
45	6175	27.32	22.41	320
93	6415	22.82	22.06	320
97	6435	22.43	23.34	320
105	6475	23.49	22.82	320
113	6515	23.69	22.71	320
117	6535	24.12	22.43	320
153	6715	22.31	23.07	320
181	6855	22.85	22.64	320
185 (U-NII-7 Band)	6875	11.2	11.08	320
185 (U-NII-8 Band)	6875	10.95	11	320
213	7015	22.19	22.22	320
233	7115	22.34	22.99	320

For channel straddling 6875MHz:

Total Values

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
185	6875	22.15	22.08

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
3	5965	41.18	41.35	320
43	6165	40.93	41.08	320
91	6405	40.98	41.08	320
99	6445	40.99	41	320
107	6485	41.06	41.22	320
115 (U-NII-6 Band)	6525	20.66	20.6	320
115 (U-NII-7 Band)	6525	20.44	20.43	320
123	6565	41.04	40.92	320
155	6725	41.04	41.14	320
179	6845	40.99	41.09	320
187 (U-NII-7 Band)	6885	10.55	10.6	320
187 (U-NII-8 Band)	6885	30.4	30.58	320
211	7005	40.93	41.12	320
227	7085	41.08	41.04	320

For channel straddling 6525MHz & 6875MHz:

Total Values

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
115	6525	41.1	41.03
187	6885	40.95	41.18

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
7	5985	81.66	81.54	320
39	6145	81.72	81.52	320
87	6385	81.51	81.64	320
103	6465	81.67	81.61	320
119 (U-NII-6 Band)	6545	20.92	20.83	320
119 (U-NII-7 Band)	6545	60.67	60.82	320
135	6625	81.51	81.7	320
151	6705	81.54	81.51	320
167	6785	81.74	81.49	320
183 (U-NII-7 Band)	6865	50.72	50.93	320
183 (U-NII-8 Band)	6865	30.54	30.74	320
199	6945	81.75	81.42	320
215	7025	81.65	81.78	320

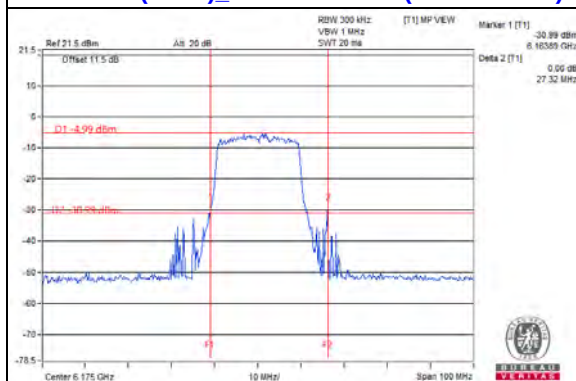
For channel straddling 6525MHz & 6875MHz:

Total Values

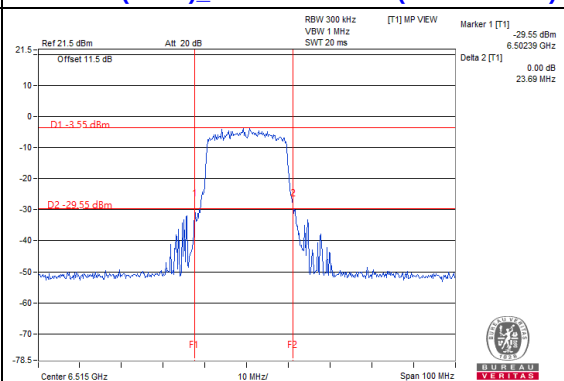
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
119	6545	81.59	81.65
183	6865	81.26	81.67

Spectrum Plot of Max. Value

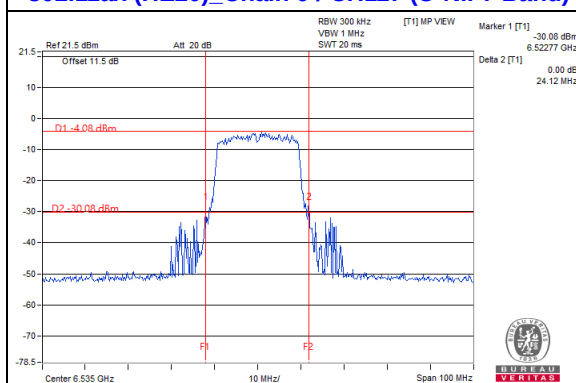
802.11ax (HE20)_Chain 0 / CH45 (U-NII-5 Band)



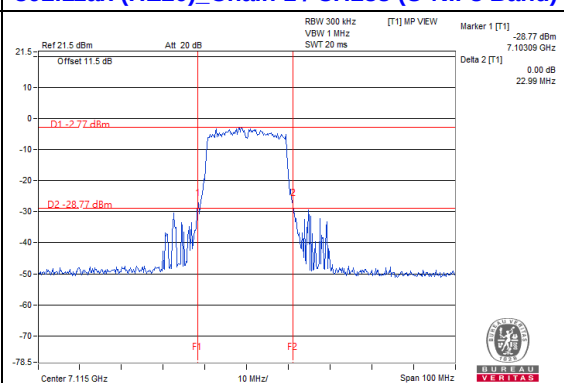
802.11ax (HE20)_Chain 0 / CH113 (U-NII-6 Band)

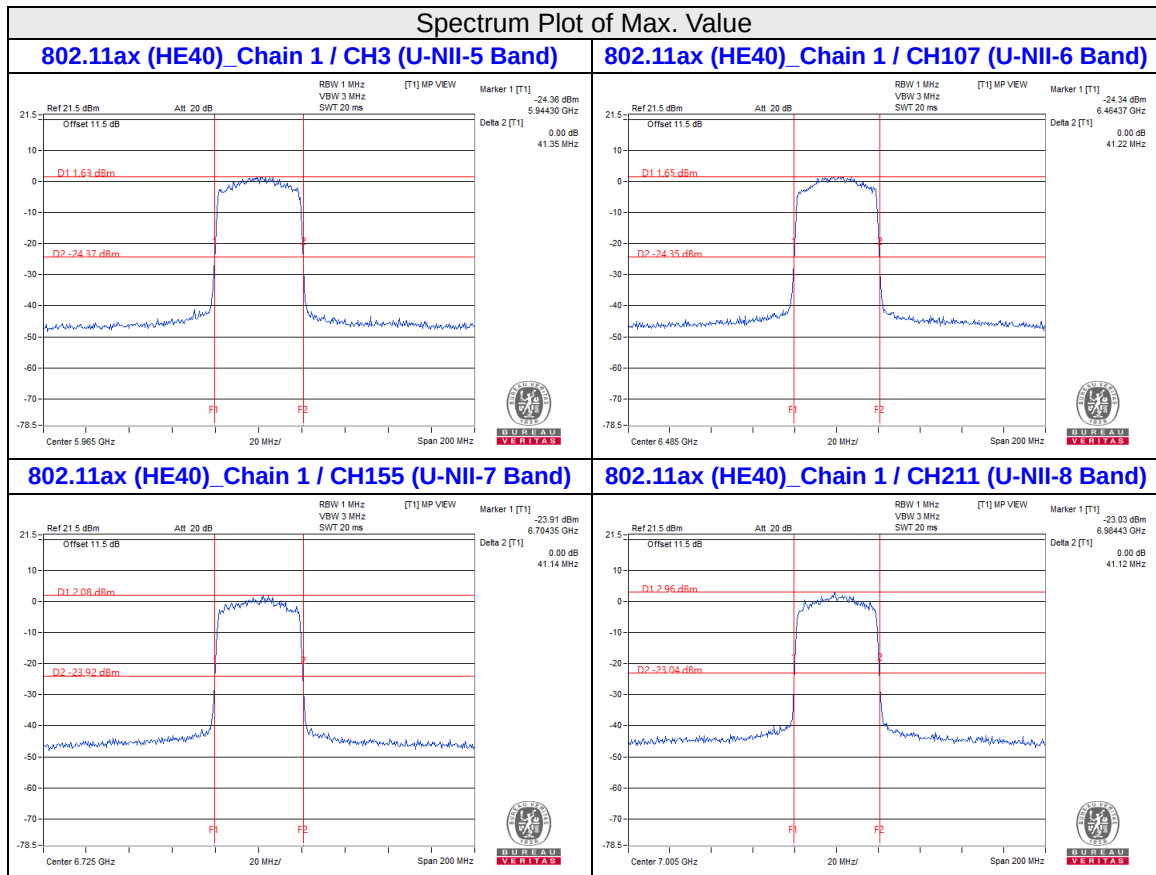


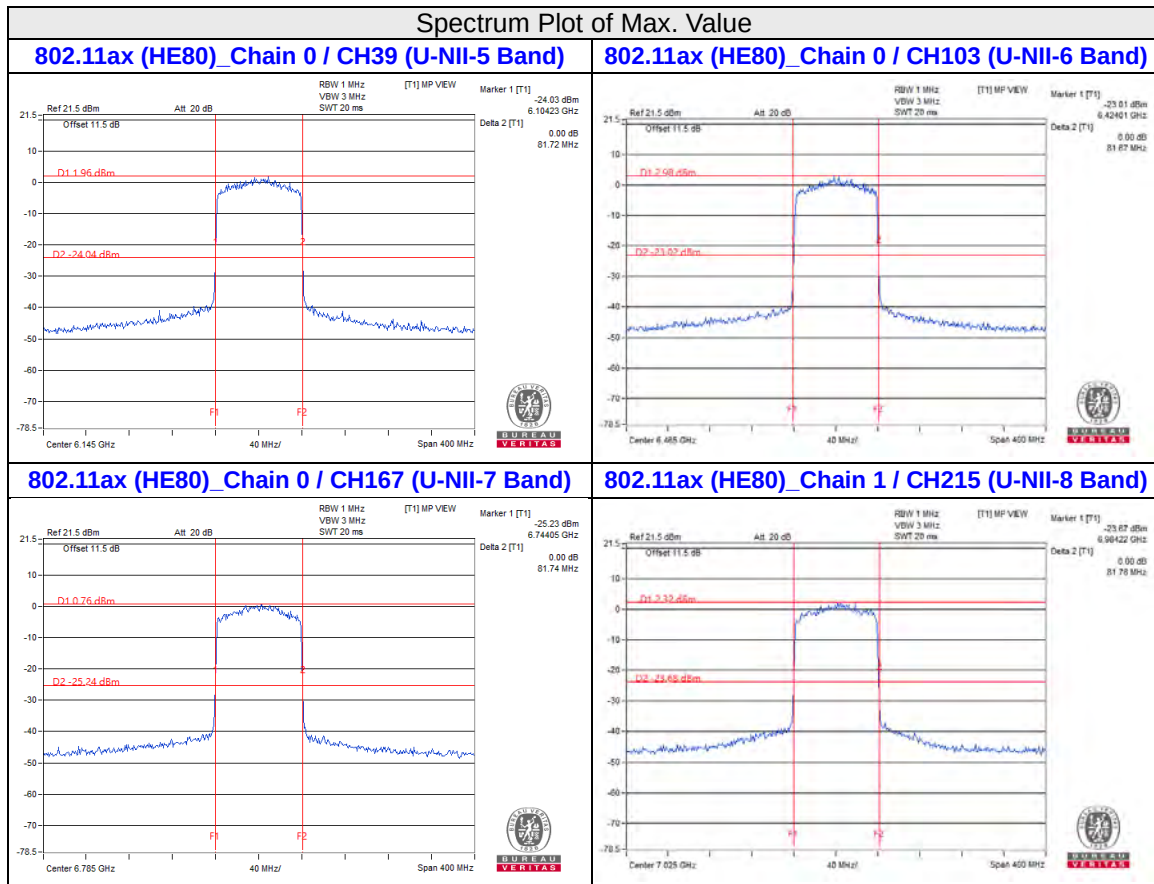
802.11ax (HE20)_Chain 0 / CH117 (U-NII-7 Band)



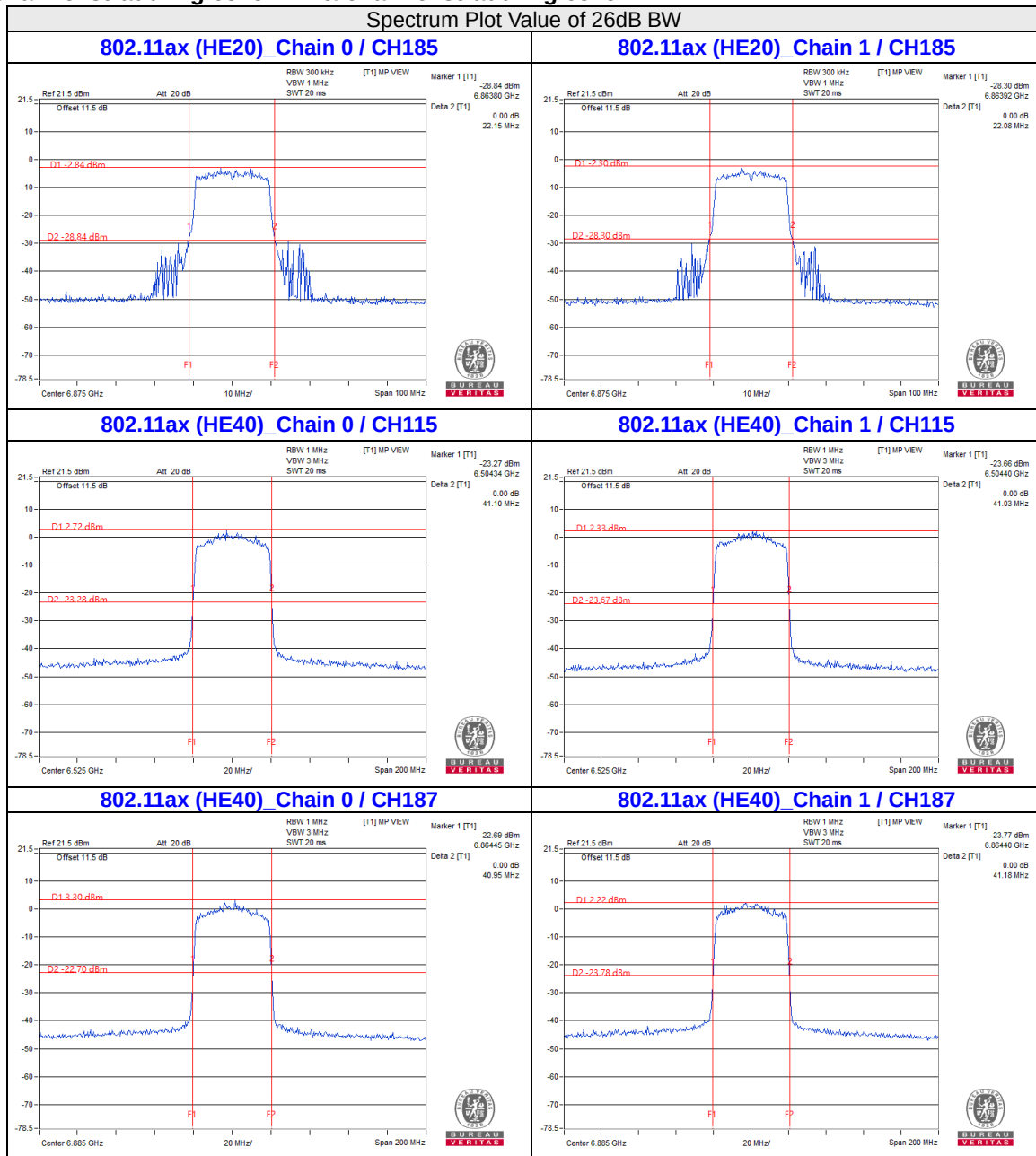
802.11ax (HE20)_Chain 1 / CH233 (U-NII-8 Band)

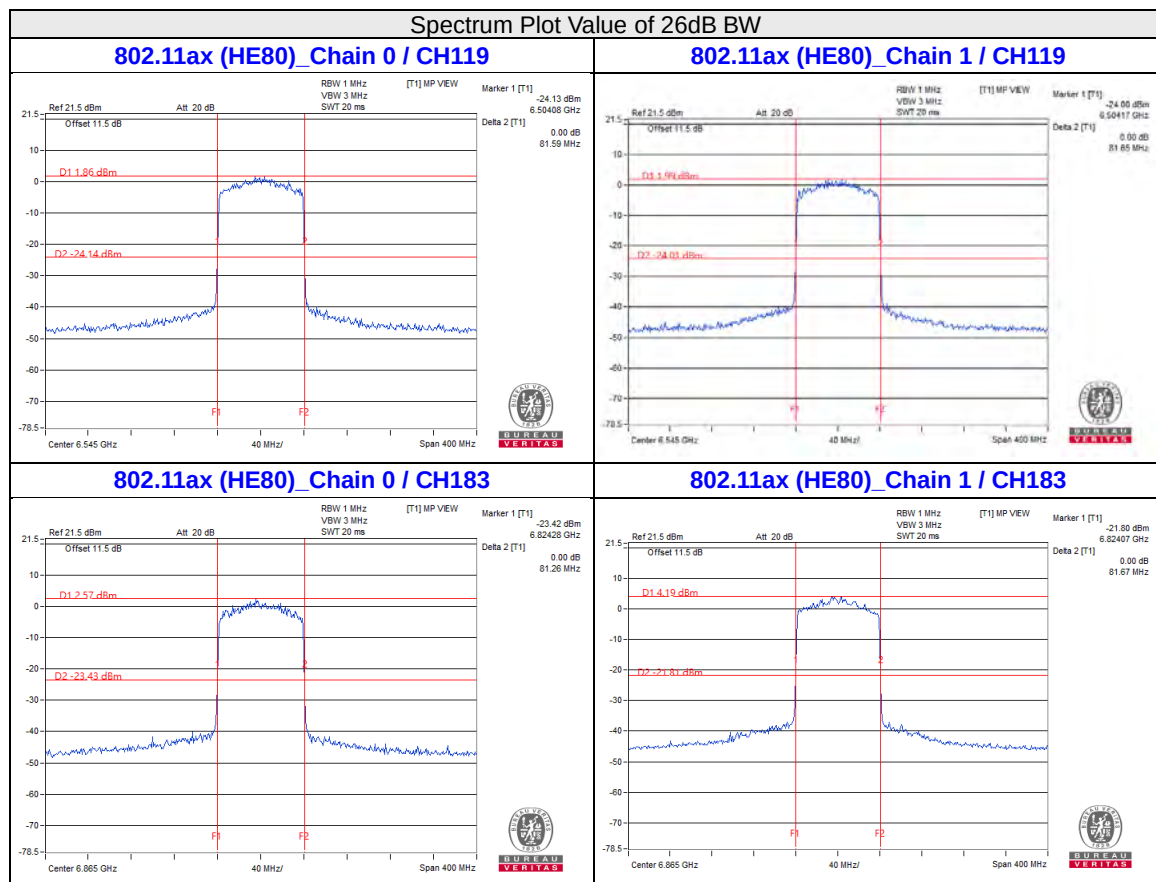






For channel straddling 6525MHz & channel straddling 6875MHz:





Note:

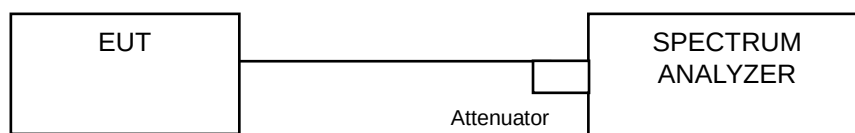
- For U-NII-6 channel straddling 6525MHz bandwidth = 6525MHz - Marker 1
- For U-NII-7 channel straddling 6525MHz bandwidth = Delta 2 - (6525MHz - Marker 1)
- For U-NII-7 channel straddling 6875MHz bandwidth = 6875MHz - Marker 1
- For U-NII-8 channel straddling 6875MHz bandwidth = Delta 2 - (6875MHz - Marker 1)

4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	-1 dBm/MHz

4.6.2 Test Setup For Conducted Method



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz
- Sweep time = auto, trigger set to "free run".
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add $10 \log (1/\text{duty cycle})$

4.6.5 EUT Operating Condition

Same as Item 4.3.6.

4.6.6 Test Results

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
1	5955	-11.13	-10.55	0.47	-7.35	6.32	-1.03	-1.00	Pass
45	6175	-12.48	-10.31	0.47	-7.78	6.32	-1.46	-1.00	Pass
93	6415	-10.86	-11.14	0.47	-7.52	6.32	-1.20	-1.00	Pass
97	6435	-11.17	-11.62	0.47	-7.91	6.32	-1.59	-1.00	Pass
105	6475	-11.41	-11.61	0.47	-8.03	6.32	-1.71	-1.00	Pass
113	6515	-11.63	-11.93	0.47	-8.30	6.32	-1.98	-1.00	Pass
117	6535	-11.06	-11.21	0.47	-7.66	6.32	-1.34	-1.00	Pass
153	6715	-11.83	-11.67	0.47	-8.27	6.32	-1.95	-1.00	Pass
181	6855	-11.90	-10.93	0.47	-7.91	6.32	-1.59	-1.00	Pass
185 (U-NII-7 Band)	6875	-10.94	-11.02	0.47	-7.50	6.32	-1.18	-1.00	Pass
185 (U-NII-8 Band)	6875	-10.96	-11.83	0.47	-7.90	6.32	-1.58	-1.00	Pass
213	7015	-10.63	-11.23	0.47	-7.44	6.32	-1.12	-1.00	Pass
233	7115	-12.26	-11.05	0.47	-8.14	6.32	-1.82	-1.00	Pass

Note: 1. Method 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 = $3.31\text{dBi} + 10\log(2) = 6.32\text{dBi}$

3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
3	5965	-12.41	-10.94	0.74	-7.87	6.32	-1.55	-1.00	Pass
43	6165	-12.34	-11.37	0.74	-8.08	6.32	-1.76	-1.00	Pass
91	6405	-12.73	-11.65	0.74	-8.41	6.32	-2.09	-1.00	Pass
99	6445	-12.06	-11.47	0.74	-8.01	6.32	-1.69	-1.00	Pass
107	6485	-12.49	-11.52	0.74	-8.23	6.32	-1.91	-1.00	Pass
115 (U-NII-6 Band)	6525	-10.87	-12.10	0.74	-7.69	6.32	-1.37	-1.00	Pass
115 (U-NII-7 Band)	6525	-11.28	-11.98	0.74	-7.87	6.32	-1.55	-1.00	Pass
123	6565	-11.72	-10.83	0.74	-7.50	6.32	-1.18	-1.00	Pass
155	6725	-12.11	-11.94	0.74	-8.28	6.32	-1.96	-1.00	Pass
179	6845	-12.23	-11.97	0.74	-8.35	6.32	-2.03	-1.00	Pass
187 (U-NII-7 Band)	6885	-15.44	-13.75	0.74	-10.77	6.32	-4.45	-1.00	Pass
187 (U-NII-8 Band)	6885	-11.61	-11.79	0.74	-7.95	6.32	-1.63	-1.00	Pass
211	7005	-9.54	-13.94	0.74	-7.46	6.32	-1.14	-1.00	Pass
227	7085	-11.92	-10.62	0.74	-7.47	6.32	-1.15	-1.00	Pass

Note: 1. Method 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 = $3.31\text{dBi} + 10\log(2) = 6.32\text{dBi}$

3. Refer to section 3.3 for duty cycle spectrum plot.

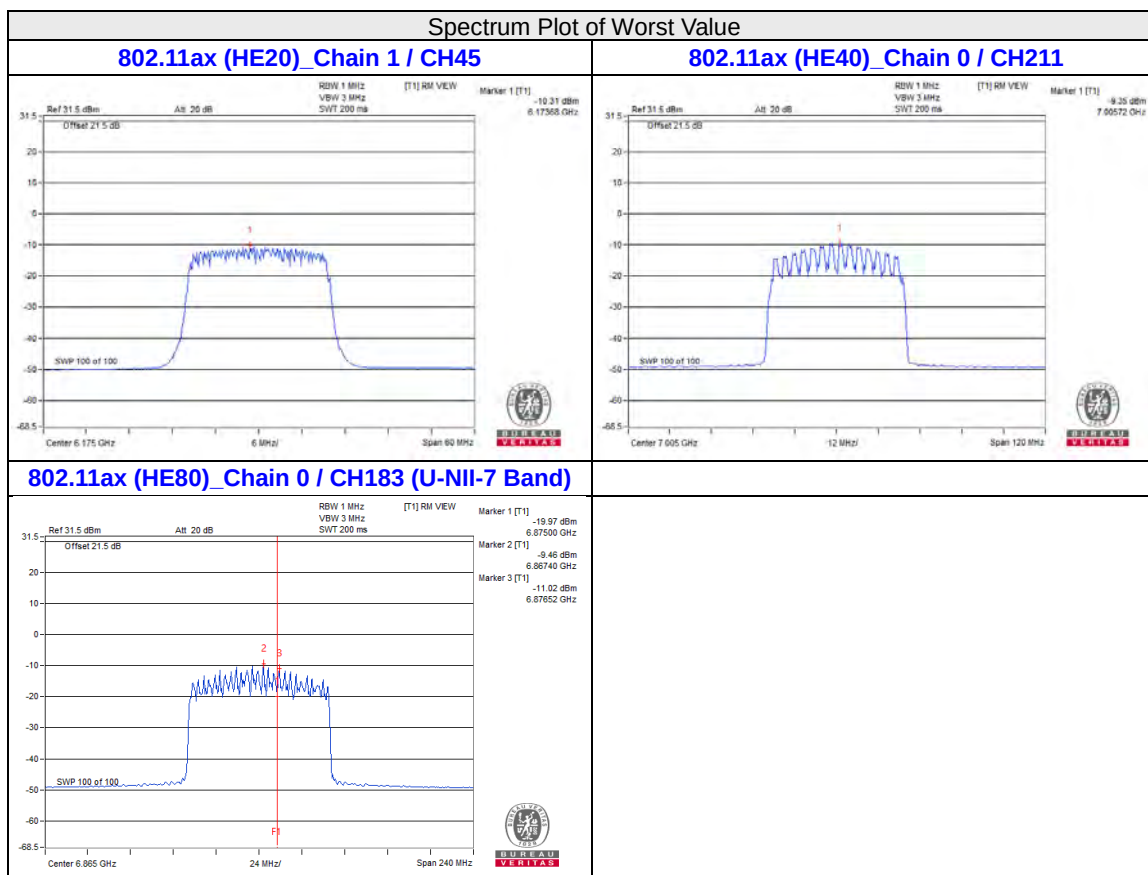
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
7	5985	-11.62	-13.78	1.39	-8.17	6.32	-1.85	-1.00	Pass
39	6145	-12.25	-11.51	1.39	-7.47	6.32	-1.15	-1.00	Pass
87	6385	-11.68	-11.80	1.39	-7.34	6.32	-1.02	-1.00	Pass
103	6465	-12.37	-12.29	1.39	-7.93	6.32	-1.61	-1.00	Pass
119 (U-NII-6 Band)	6545	-16.81	-15.46	1.39	-11.69	6.32	-5.37	-1.00	Pass
119 (U-NII-7 Band)	6545	-12.33	-13.43	1.39	-8.45	6.32	-2.13	-1.00	Pass
135	6625	-10.95	-15.04	1.39	-8.13	6.32	-1.81	-1.00	Pass
151	6705	-13.72	-11.70	1.39	-8.20	6.32	-1.88	-1.00	Pass
167	6785	-11.23	-14.67	1.39	-8.22	6.32	-1.90	-1.00	Pass
183 (U-NII-7 Band)	6865	-9.46	-16.74	1.39	-7.33	6.32	-1.01	-1.00	Pass
183 (U-NII-8 Band)	6865	-14.57	-11.98	1.39	-8.69	6.32	-2.37	-1.00	Pass
199	6945	-11.37	-14.06	1.39	-8.11	6.32	-1.79	-1.00	Pass
215	7025	-10.77	-13.06	1.39	-7.37	6.32	-1.05	-1.00	Pass

Note: 1. Method 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 = $3.31\text{dBi} + 10\log(2) = 6.32\text{dBi}$

3. Refer to section 3.3 for duty cycle spectrum plot.

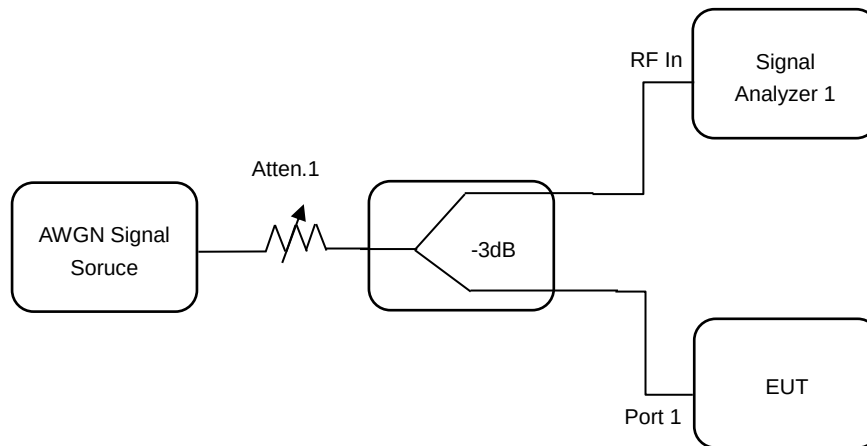


4.7 Contention Based Protocol Measurement

4.7.1 Limits of Contention Based Protocol Measurement

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.

4.7.2 Test Setup



4.7.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Keysight	N9030B	MY57141948	May 22, 2020	May 21, 2021
MXG X-Series RF Vector Signal Generator Agilent	N5182B	MY59100182	Apr. 10, 2020	Apr. 09, 2021
Power Splitter/combiner Mini-Circuits	ZN2PD-9G	ZN2PD-9G	Jun. 16, 2020	Jun. 15, 2021

- NOTE:**
1. The test was performed in Femtocell room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Oct. 08, 2020

4.7.4 Test Procedure

- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
- Determine number of times detection threshold test as following table,
-

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

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

4.7.5 EUT Operating Condition

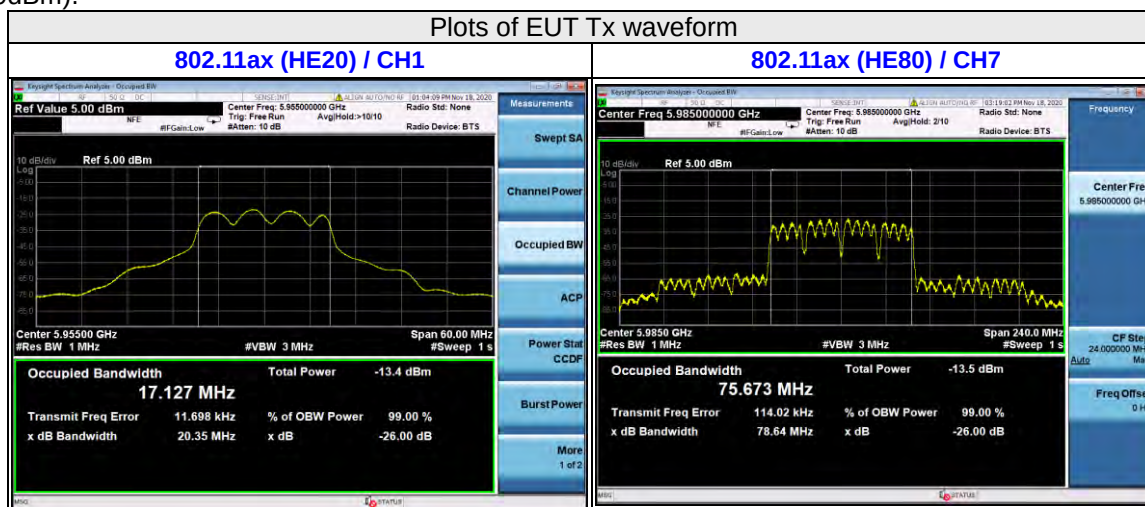
Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.

4.7.6 Test Results

For U-NII-5 band

Contention Based Protocol Measurement										
Measurement Mode :		Conducted measurement			Device Type :		Indoor Client		at the antenna connector	
The lowest Incumbent Signal Level (ISL) at which EUT has ceased transmission (dBm)		-63 dBm			Anttenna Gain :		0	dBi		
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result					
					Test Signals	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
					Freq. (MHz)					
U-NII 5	802.11ax	20MHz	1	5955	5955	10	9	90%	90%	Pass
		80MHz	7	5985	5950	10	10	100%	90%	Pass
					5985	10	10	100%	90%	Pass
					6020	10	10	100%	90%	Pass
Result	Complied									

Note : A more stringent test level with 0dBi antenna gain (-62dBm +0dB -1dB instrument uncertainty = -63dBm) is selected for the test instead of the rule's required test level (-62dBm + 3.31dBi antenna gain= -58.69dBm).

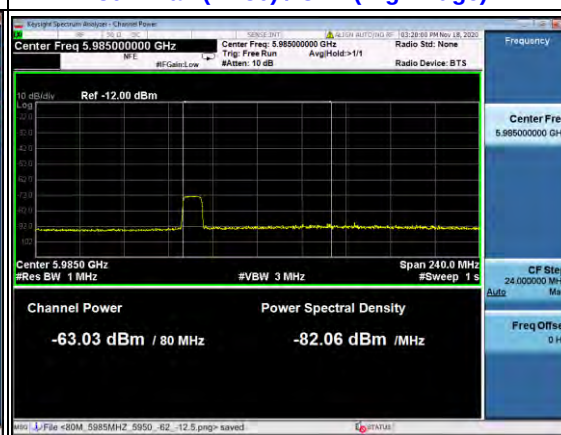


Plots of shows Incumbent signal level and ceased transmission

802.11ax (HE20) / CH1



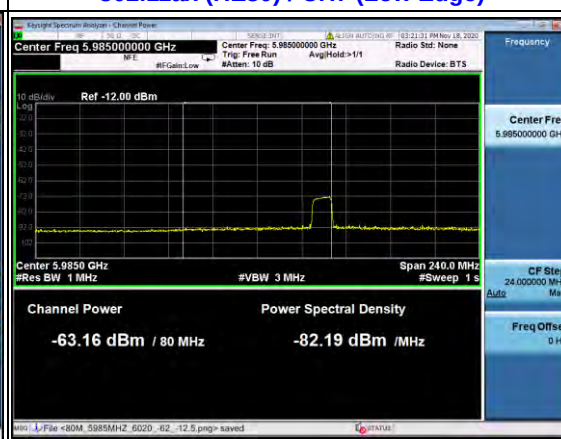
802.11ax (HE80) / CH7 (High Edge)



802.11ax (HE80) / CH7 (Middle)

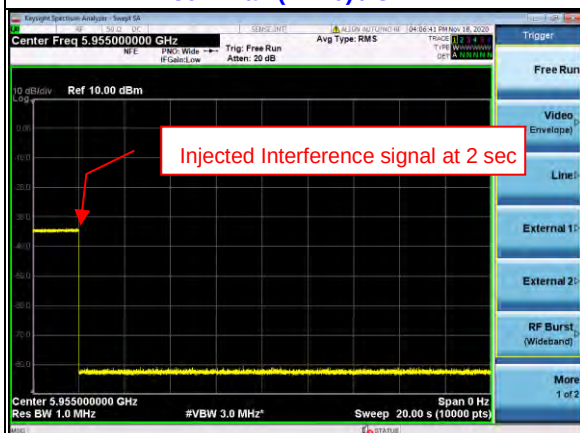


802.11ax (HE80) / CH7 (Low Edge)

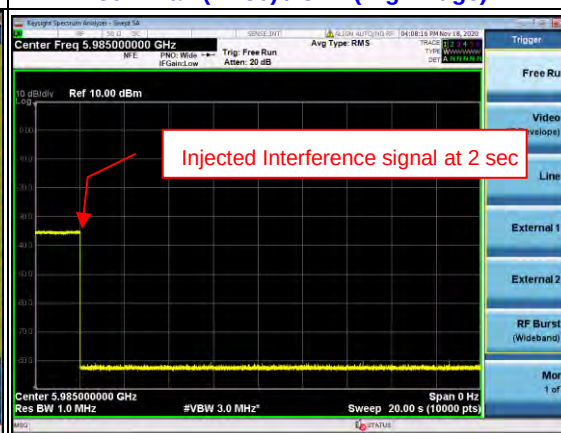


Plots of EUT ceased transmission in the time domain

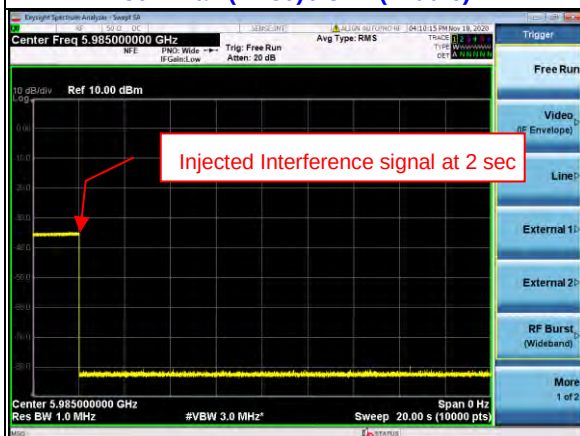
802.11ax (HE20) / CH1



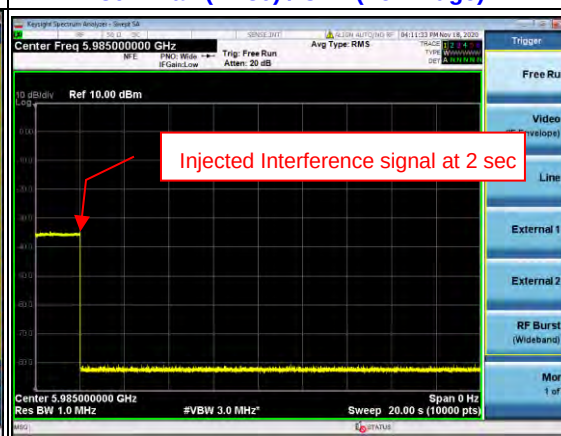
802.11ax (HE80) / CH7 (High Edge)



802.11ax (HE80) / CH7 (Middle)



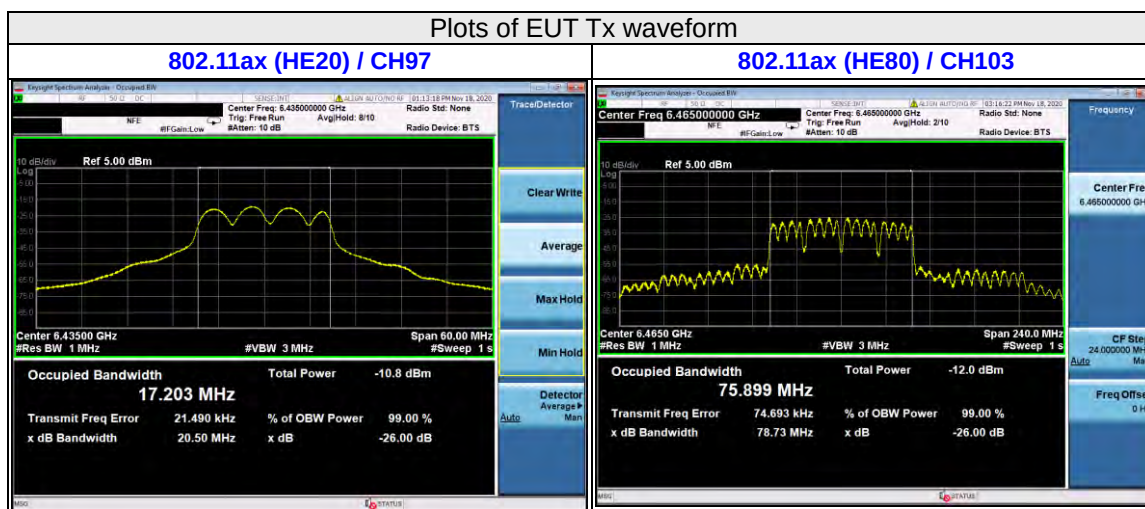
802.11ax (HE80) / CH7 (Low Edge)



For U-NII-6 band

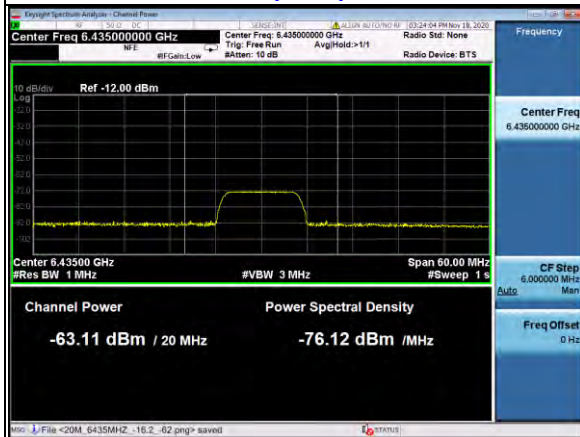
Contention Based Protocol Measurement										
Measurement Mode :		Conducted measurement			Device Type :		Indoor Client		at the antenna connector	
The lowest Incumbent Signal Level (ISL) at which EUT has ceased transmission (dBm)		-63 dBm			Antenna Gain :		0	dBi		
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result					
					Test Signals	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
					Freq. (MHz)					
U-NII 6	802.11ax	20MHz	97	6435	6435	10	10	100%	90%	Pass
		80MHz	103	6465	6430	10	10	100%	90%	Pass
					6465	10	10	100%	90%	Pass
					6500	10	10	100%	90%	Pass
Result		Complied								

Note : A more stringent test level with 0dBi antenna gain (-62dBm +0dB -1dB instrument uncertainty = -63dBm) is selected for the test instead of the rule's required test level (-62dBm + 3.31dBi antenna gain= -58.69dBm).



Plots of shows Incumbent signal level and ceased transmission

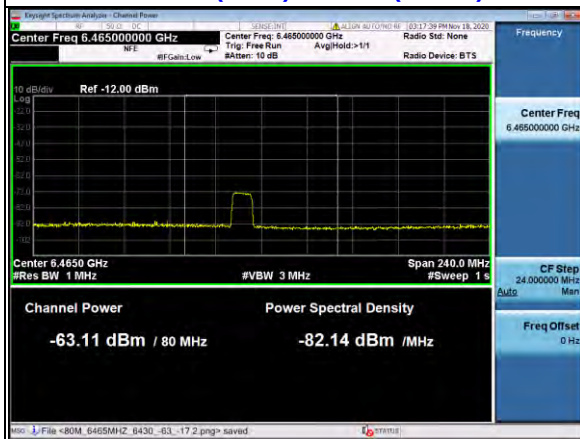
802.11ax (HE20) / CH97



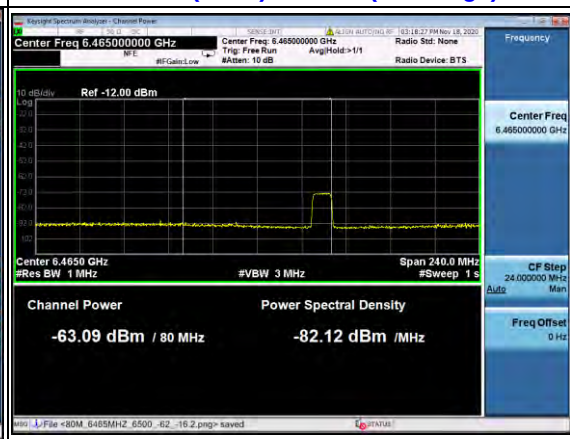
802.11ax (HE80) / CH103 (High Edge)



802.11ax (HE80) / CH103 (Middle)

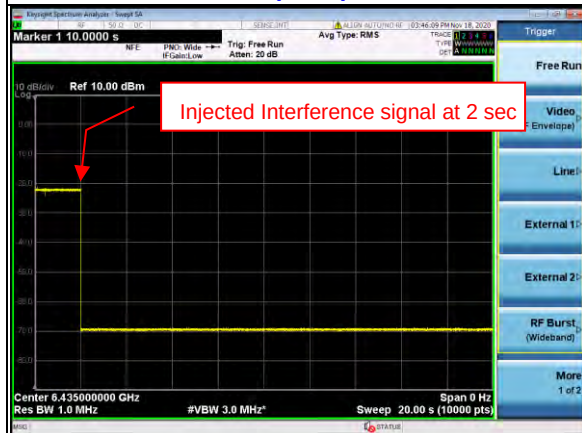


802.11ax (HE80) / CH103 (Low Edge)

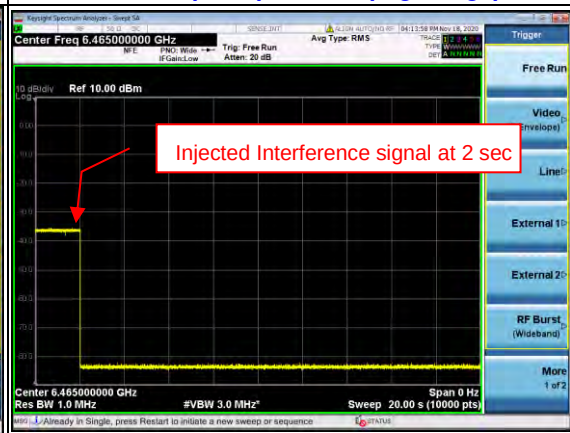


Plots of EUT ceased transmission in the time domain

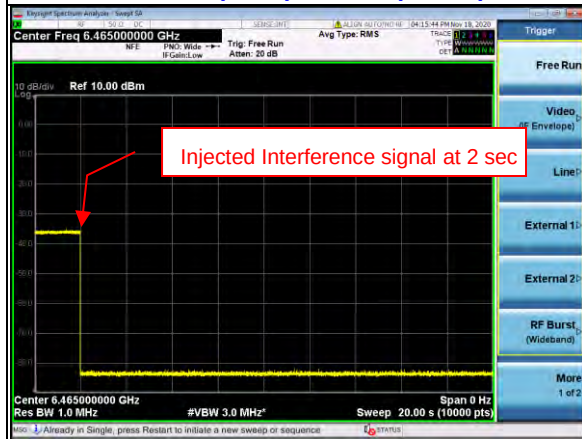
802.11ax (HE20) / CH97



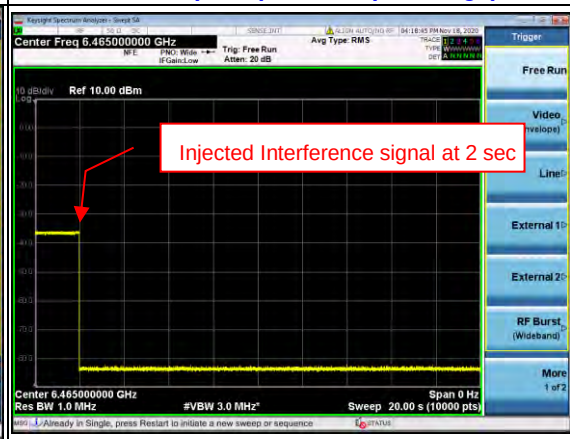
802.11ax (HE80) / CH103 (High Edge)



802.11ax (HE80) / CH103 (Middle)



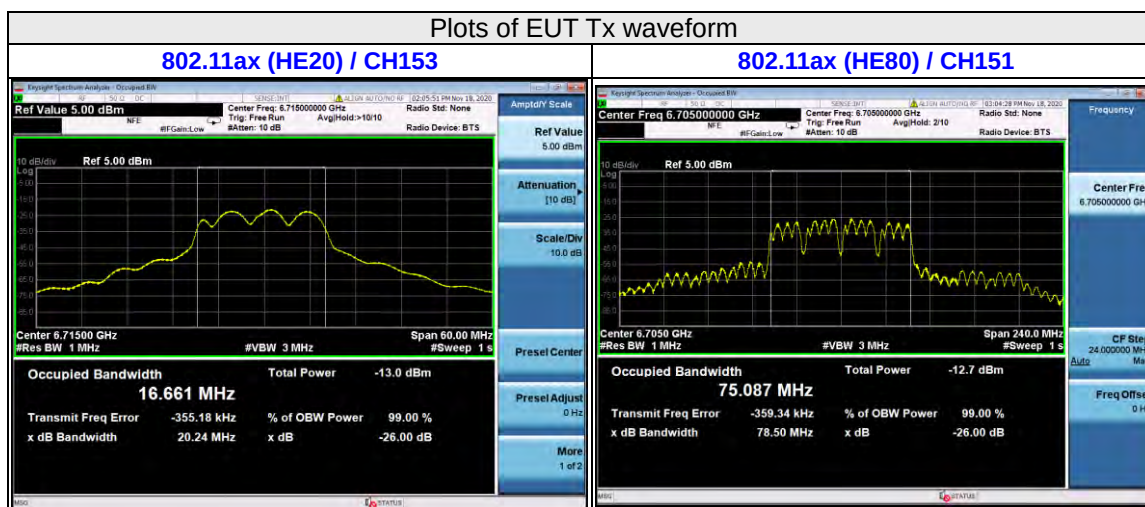
802.11ax (HE80) / CH103 (Low Edge)



For U-NII-7 band

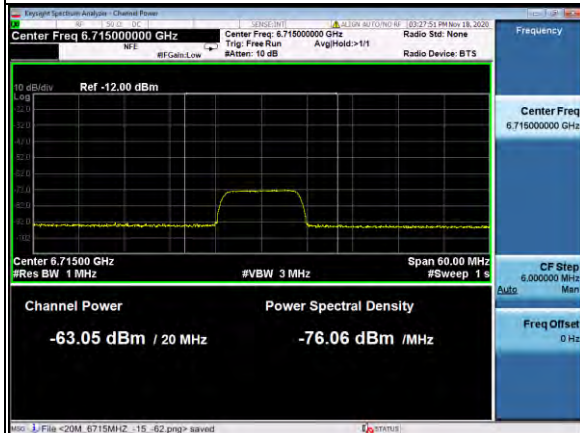
Contention Based Protocol Measurement										
Measurement Mode :		Conducted measurement			Device Type :		Indoor Client		at the antenna connector	
The lowest Incumbent Signal Level (ISL) at which EUT has ceased transmission (dBm)		-63 dBm			Antenna Gain :		0	dBi		
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result					
					Test Signals	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
					Freq. (MHz)					
U-NII 7	802.11ax	20MHz	153	6715	6715	10	10	100%	90%	Pass
		80MHz	151	6705	6670	10	10	100%	90%	Pass
					6705	10	10	100%	90%	Pass
					6740	10	10	100%	90%	Pass
Result		Complied								

Note : A more stringent test level with 0dBi antenna gain (-62dBm +0dB -1dB instrument uncertainty = -63dBm) is selected for the test instead of the rule's required test level (-62dBm + 3.31dBi antenna gain= -58.69dBm).

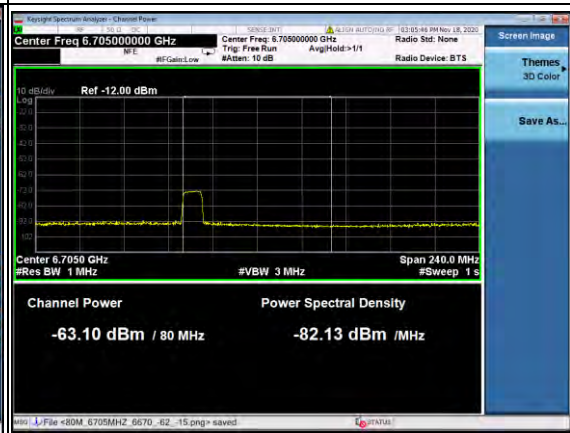


Plots of shows Incumbent signal level and ceased transmission

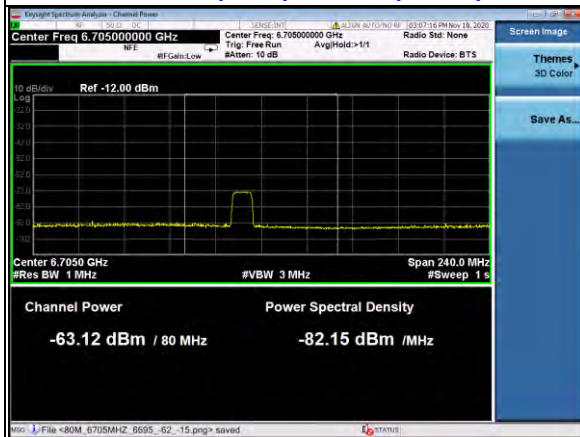
802.11ax (HE20) / CH153



802.11ax (HE80) / CH151 (High Edge)

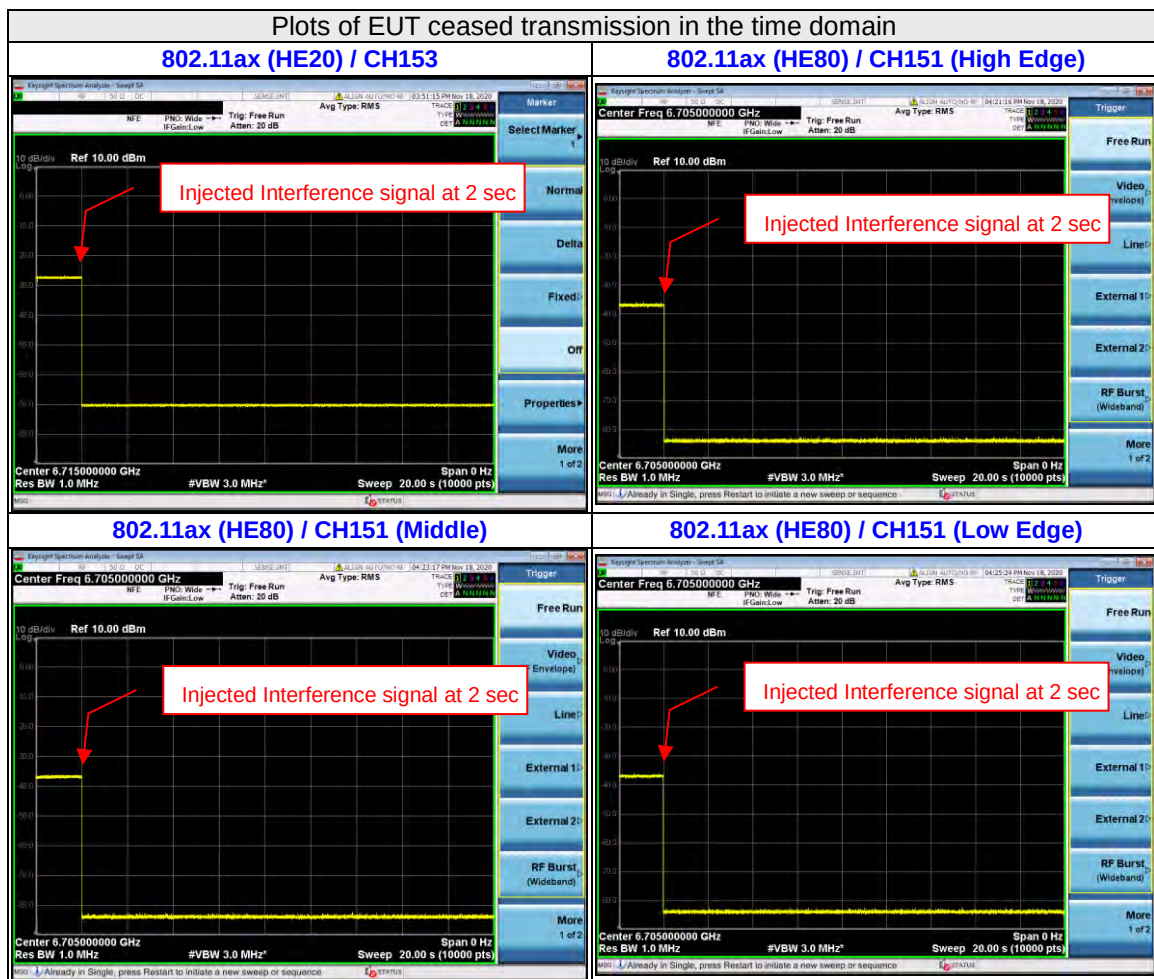


802.11ax (HE80) / CH151 (Middle)



802.11ax (HE80) / CH151 (Low Edge)

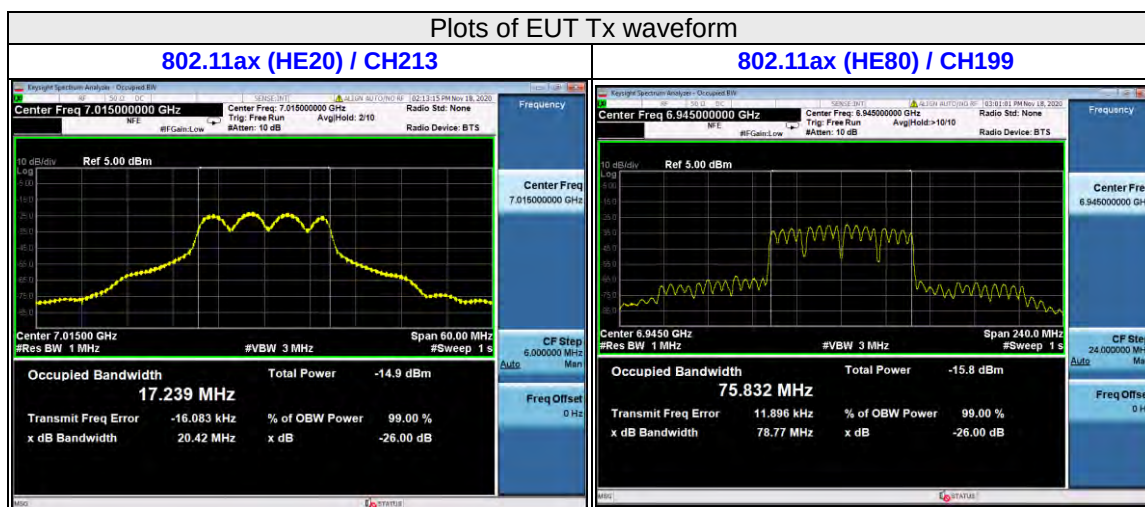




For U-NII-8 band

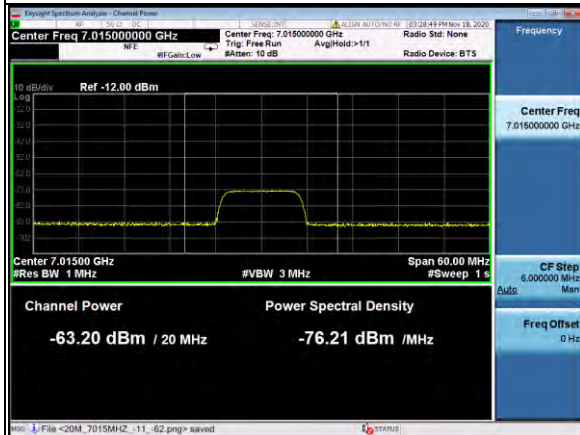
Contention Based Protocol Measurement										
Measurement Mode :		Conducted measurement			Device Type :		Indoor Client		at the antenna connector	
The lowest Incumbent Signal Level (ISL) at which EUT has ceased transmission (dBm)		-63 dBm			Antenna Gain :		0	dB		
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	Test Result					
					Test Signals	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
					Freq. (MHz)					
U-NII 8	802.11ax	20MHz	213	7015	7015	10	10	100%	90%	Pass
					6910	10	10	100%	90%	Pass
		80MHz	199	6945	6945	10	10	100%	90%	Pass
					6980	10	10	100%	90%	Pass
Result		Complied								

Note : A more stringent test level with 0dBi antenna gain (-62dBm +0dB -1dB instrument uncertainty = -63dBm) is selected for the test instead of the rule's required test level (-62dBm + 3.31dBi antenna gain= -58.69dBm).

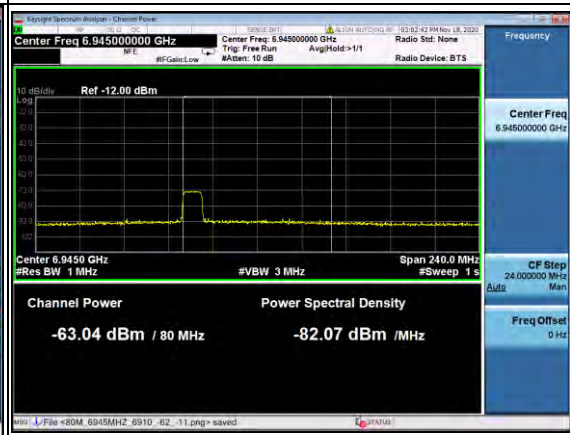


Plots of shows Incumbent signal level and ceased transmission

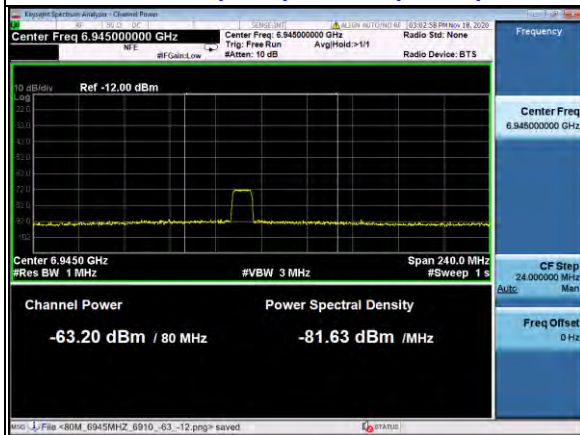
802.11ax (HE20) / CH213



802.11ax (HE80) / CH199 (High Edge)



802.11ax (HE80) / CH199 (Middle)



802.11ax (HE80) / CH199 (Low Edge)

