



Test Report No.: RF2206WDG0112-2



TEST REPORT

Applicant	BenQ Corporation
Address	16 Jihu Road, Neihu, Taipei 114, Taiwan

Manufacturer or Supplier	BenQ Corporation
Address	16 Jihu Road, Neihu, Taipei 114, Taiwan
Product	Wireless USB Adapter
Brand Name	BenQ
Model	WD02AT
Additional Model & Model Difference	N/A
Date of tests	Jun. 13, 2022 ~ Jul. 14, 2022

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.247

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu
Supervisor / EMC Department

Approved by Glyn He
Assistant Manager / EMC Department

Date: Sep. 16, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2206WDG0112-2	Original release	Sep. 16, 2022

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

2 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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	3.05dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.82dB
	1GHz ~ 18GHz	4.94dB
	18GHz ~ 40GHz	5.07dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless USB Adapter
MODEL NO.	WD02AT
ADDITIONAL NO.	N/A
FCC ID	JVPWD02AT
NOMINAL VOLTAGE	DC 5V From USB Host Unit
MODULATION TECHNOLOGY	DSSS, OFDM, OFDMA
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
OPERATING FREQUENCY	2412-2462MHz for 802.11b/g/n(HT20)/ax(HE20) 2422-2452MHz for 802.11n(HT40)/ax(HE40)
PEAK OUTPUT POWER	201.027mW(Maximum)
ANTENNA TYPE	Sheet metal Antenna, with 3.04dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2206WDG0112) for detailed product photo.
4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2 receiver.

MODULATION MODE	TX Function
802.11b	2TX
802.11g	2TX
802.11n (HT20)/ 802.11ax (HE20)	2TX
802.11n (HT40)/ 802.11ax (HE40)	2TX

5. ANTENNA LIST

Ant. No.	Antenna Type	Connector Type	Peak Gain(dBi)
			2.4GHz
Chain 0	Sheet metal	Internal	3.04
Chain 1	Sheet metal	Internal	3.04
Directional Gain for PSD			6.05
Directional Gain for power			3.04

The directional gain calculation is following F2)f)i) of KDB 662911 D01 Multiple Transmitter Output v02r01

All Wi-Fi antennas have the same gain, Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices, Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4

3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g, and 802.11n (HT20), 802.11ax (HE20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n (HT40), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	√	Powered by Notebook with WIFI function

Where **RE<1G**: Radiated Emission below 1GHz **RE≥1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

- 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.

EUT CONFIGURE MODE	TESTED CONDITION
A	WIFI Link

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1	DSSS	DBPSK	1.0

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
A	802.11ax(HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0
A	802.11ax(HE40)	3 to 9	3, 6, 9	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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
A	802.11ax(HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0
A	802.11ax(HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 53%RH	DC 5V From Notebook	Jelly
RE≥1G	25deg. C, 53%RH	DC 5V From Notebook	Jelly
PLC	20deg. C, 56%RH	DC 5V From Notebook	Ming Bai
APCM	25deg. C, 60%RH	DC 5V From Notebook	Vincent

3.3 DUTY CYCLE OF TEST SIGNAL

802.11b: Duty cycle = 14.656/14.919 = 0.982

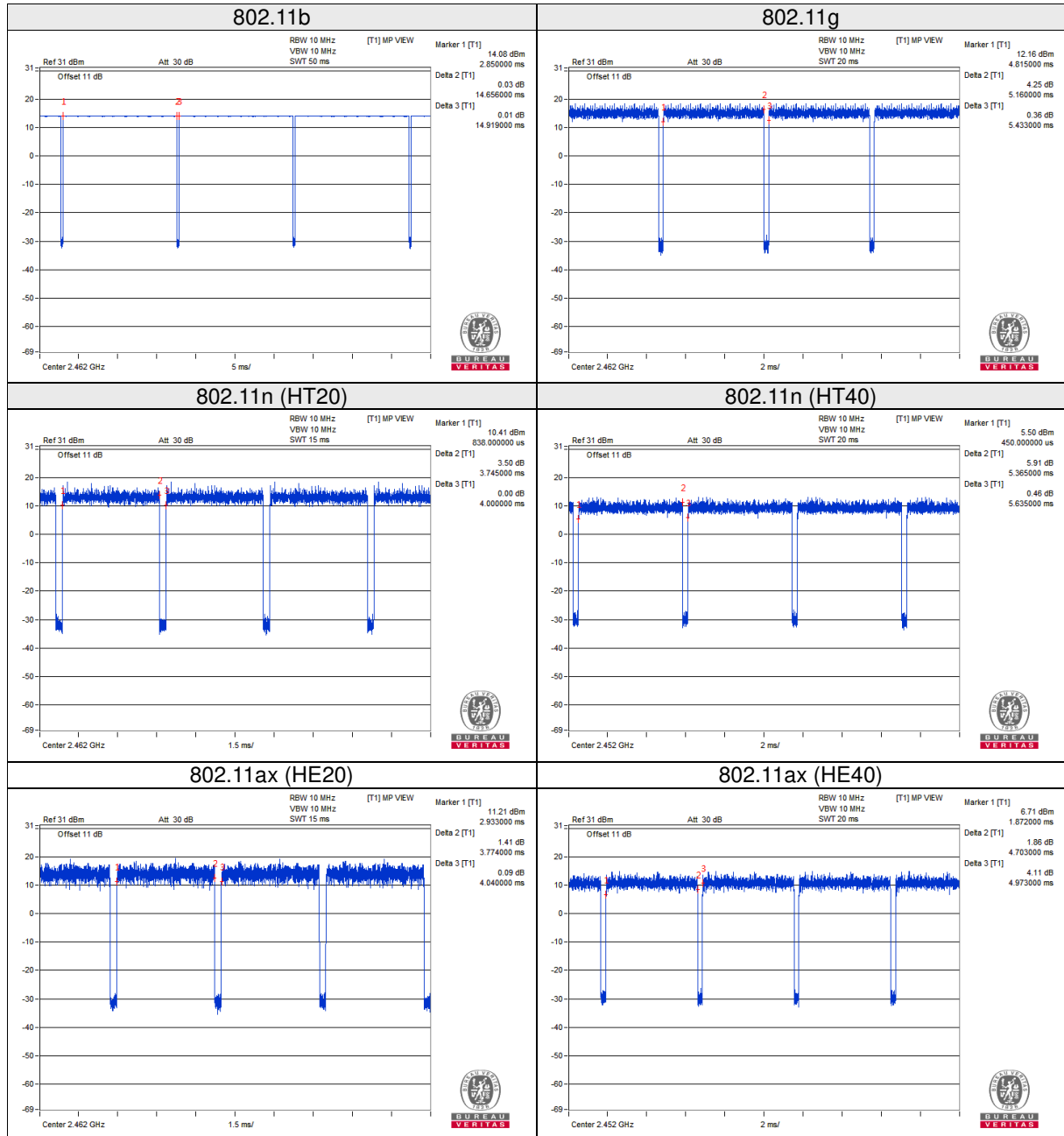
802.11g: Duty cycle = 5.16/5.433 = 0.950, Duty factor = $10 * \log(1/0.95) = 0.223$

802.11n (HT20): Duty cycle = 3.745/4 = 0.936, Duty factor = $10 * \log(1/0.936) = 0.287$

802.11n (HT40): Duty cycle = 5.365/5.635 = 0.952, Duty factor = $10 * \log(1/0.952) = 0.214$

802.11ax (HE20): Duty cycle = 3.774/4.04 = 0.934, Duty factor = $10 * \log(1/0.934) = 0.296$

802.11ax (HE40): Duty cycle = 4.703/4.973 = 0.946, Duty factor = $10 * \log(1/0.946) = 0.241$





3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B(sDoC). The test report has been issued separately.

3.5 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	HP	4431s	CNU238944Z	N/A
2	Notebook	ALIENWARE	ALIENWARE 13 R2	2015AP3711	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1, 2	AC Line: Unshielded, Detachable 0.8m, DC Line: Unshielded, Detachable 1.8m

4 TEST TYPES AND RESULTS

4.1. CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Jan. 18, 23
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Jan. 23, 23
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Jan. 18, 23
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Aug. 05, 22
Coaxial RF Cable	/	CE CABLE	C2310066DG	Jul. 27, 22
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

- NOTES:**
1. The test was performed in shielded room 553.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.1.3 TEST PROCEDURES

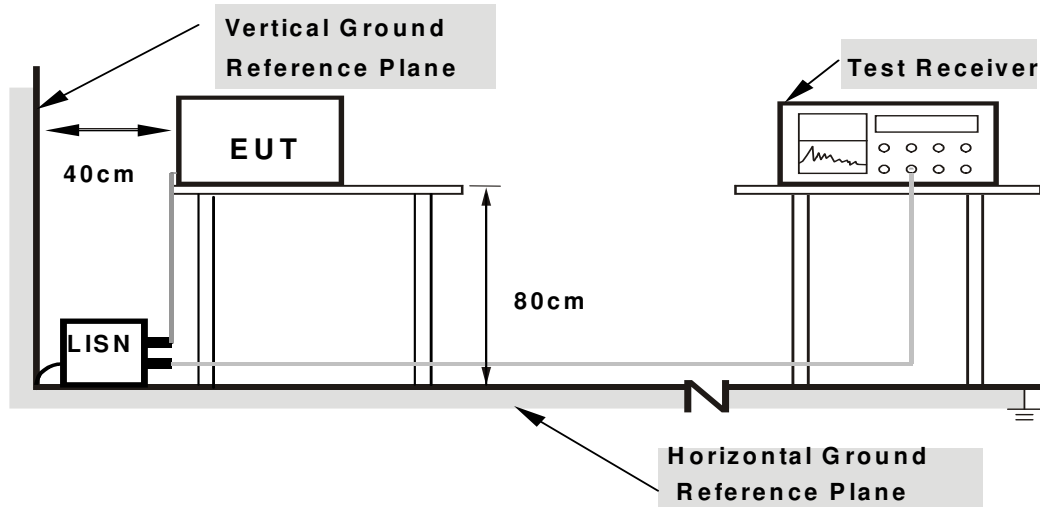
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



- Note: 1.Support units were connected to second LISN.**
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

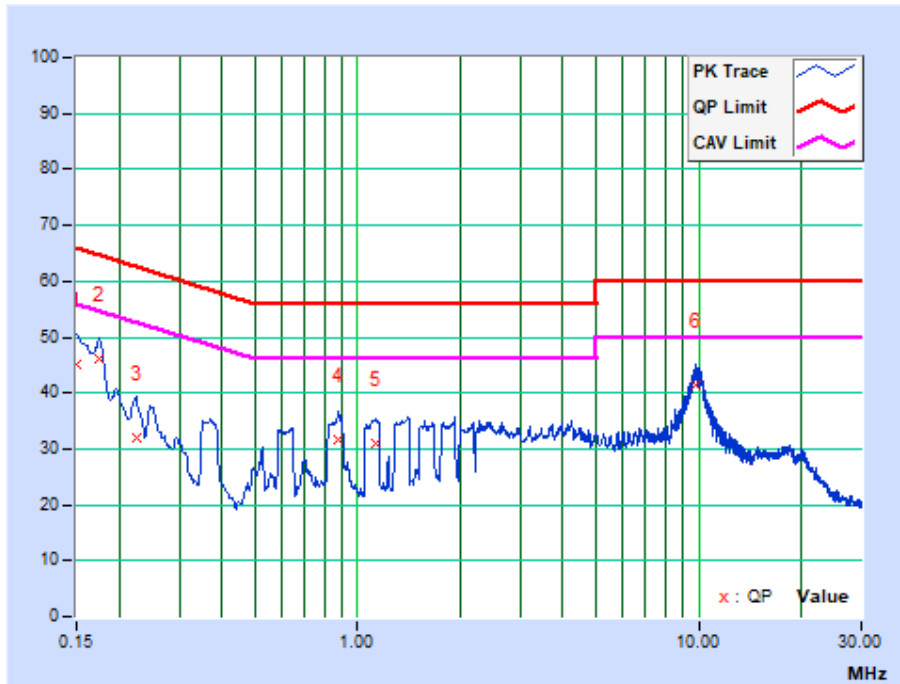
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

PHASE	Line	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.90	35.20	25.55	45.10	35.45	66.00	56.00	-20.90	-20.55
2	0.17466	9.91	36.18	32.74	46.09	42.65	64.74	54.74	-18.65	-12.09
3	0.22386	9.93	22.16	14.39	32.09	24.32	62.67	52.67	-30.59	-28.36
4	0.88125	10.02	21.76	12.46	31.78	22.48	56.00	46.00	-24.22	-23.52
5	1.12951	10.05	20.96	5.90	31.01	15.95	56.00	46.00	-24.99	-30.05
6	9.79575	10.30	30.98	27.15	41.28	37.45	60.00	50.00	-18.72	-12.55

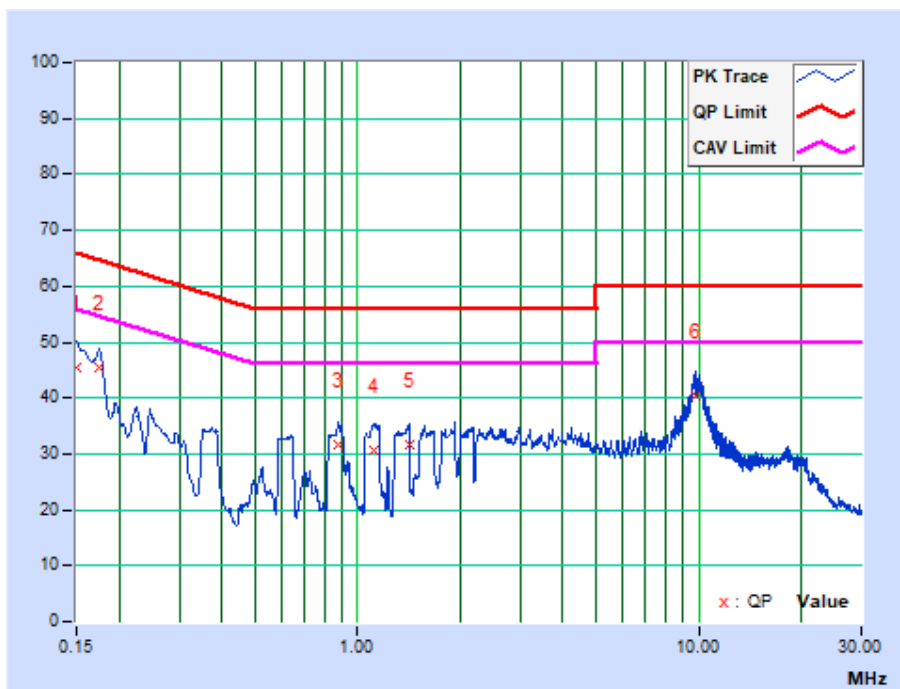
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.84	35.61	23.88	45.45	33.72	66.00	56.00	-20.55	-22.28
2	0.17466	9.84	35.75	32.73	45.59	42.57	64.74	54.74	-19.14	-12.16
3	0.87661	9.88	21.87	13.87	31.75	23.75	56.00	46.00	-24.25	-22.25
4	1.11469	9.90	20.68	4.29	30.58	14.19	56.00	46.00	-25.42	-31.81
5	1.41675	9.90	21.74	8.61	31.64	18.51	56.00	46.00	-24.36	-27.49
6	9.77100	10.12	30.18	26.50	40.30	36.62	60.00	50.00	-19.70	-13.38

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2. RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), 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.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Feb. 22, 23
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 09, 23
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 20, 23
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Mar. 08, 23
Trilog-Broadband Antenna(20M-2G)	SCHWARZBECK	VULB 9168	01263	Sep. 30, 22
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 21, 23
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 14, 23
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22, 23
Test Software	ADT	ADT_Radiated_V 7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	May 12, 23
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Jan. 10, 23
Test Software	ADT	ADT_Radiated_V 7.6.15.9.2	N/A	N/A

NOTES:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTES:

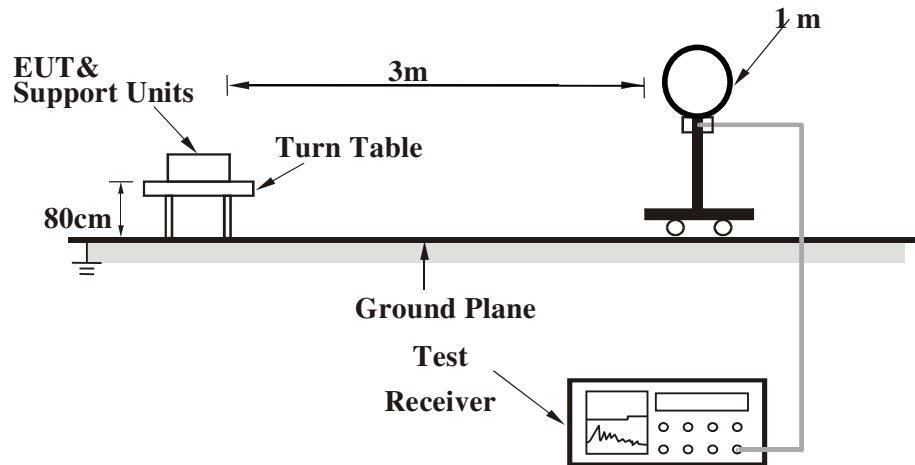
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes, the worst-case test configuration was reported on the file test setup photo.

4.2.4 DEVIATION FROM TEST STANDARD

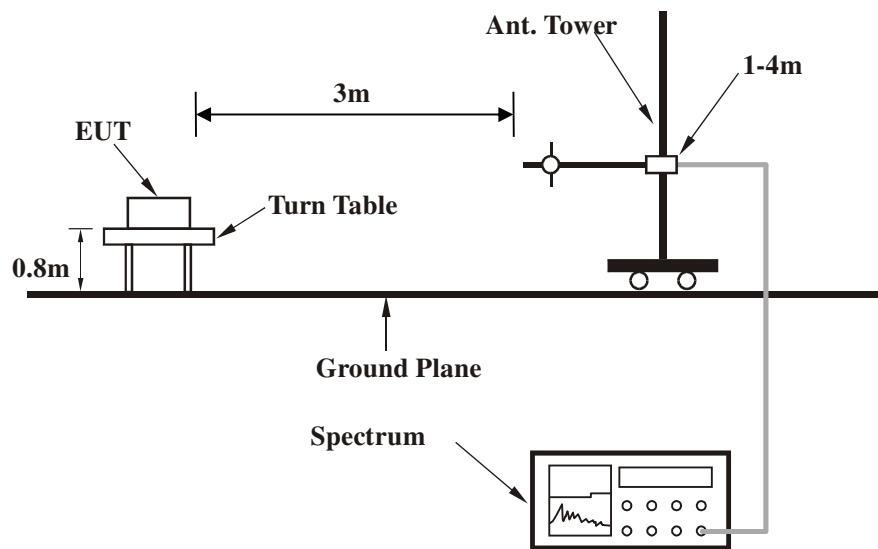
No deviation.

4.2.5 TEST SETUP

Below 30MHz test setup

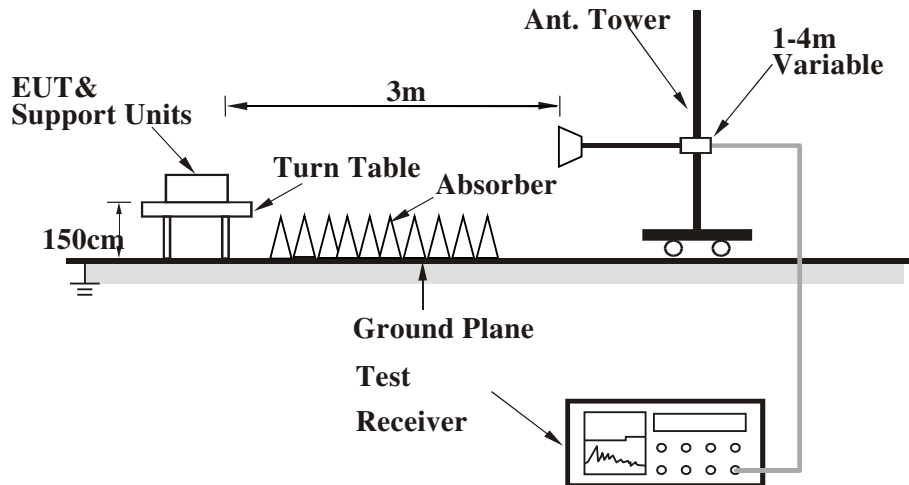


Below 1GHz test setup



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

Above 1GHz test setup



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

4.2.6 EUT OPERATING CONDITIONS

- Placed the EUT on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

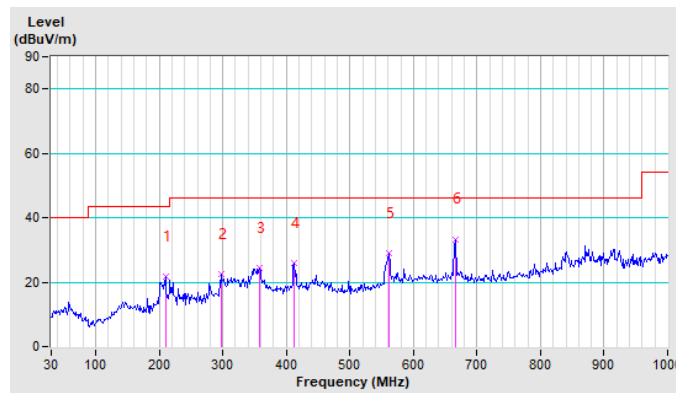
802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	209.94	21.57 QP	43.50	-21.93	1.00 H	195	37.51	-15.94
2	297.10	22.63 QP	46.00	-23.37	1.00 H	148	35.21	-12.58
3	357.55	24.40 QP	46.00	-21.60	1.00 H	133	35.76	-11.36
4	412.38	25.89 QP	46.00	-20.11	1.00 H	170	36.39	-10.50
5	561.39	28.89 QP	46.00	-17.11	1.00 H	181	36.53	-7.64
6	666.83	33.34 QP	46.00	-12.66	1.00 H	116	39.11	-5.77

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

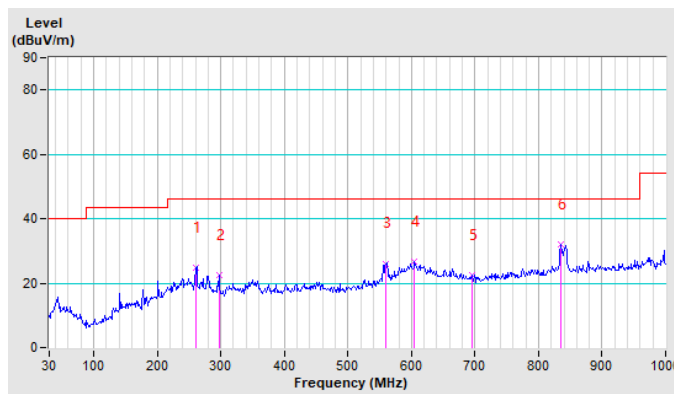


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	260.55	24.91 QP	46.00	-21.09	1.00 V	125	38.85	-13.94
2	297.10	22.55 QP	46.00	-23.45	1.00 V	230	35.13	-12.58
3	559.99	26.12 QP	46.00	-19.88	1.00 V	201	33.81	-7.69
4	604.97	26.72 QP	46.00	-19.28	1.00 V	85	33.19	-6.47
5	696.35	22.48 QP	46.00	-23.52	1.00 V	144	27.91	-5.43
6	835.52	31.96 QP	46.00	-14.04	1.00 V	167	34.80	-2.84

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz DATA
802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.46 PK	74.00	-12.54	1.00 H	236	60.18	1.28
2	2390.00	47.52 AV	54.00	-6.48	1.00 H	236	46.24	1.28
3	*2412.00	99.39 PK			1.00 H	236	98.03	1.36
4	*2412.00	89.87 AV			1.00 H	236	88.51	1.36
5	4824.00	47.32 PK	74.00	-26.68	1.00 H	210	42.68	4.64
6	4824.00	39.27 AV	54.00	-14.73	1.00 H	210	34.63	4.64
7	#7236.00	53.31 PK	74.00	-20.69	1.05 H	59	43.83	9.48
8	#7236.00	41.36 AV	54.00	-12.64	1.05 H	59	31.88	9.48

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	50.26 PK	74.00	-23.74	1.02 V	210	48.98	1.28
2	2390.00	46.32 AV	54.00	-7.68	1.02 V	210	45.04	1.28
3	*2412.00	95.36 PK			1.02 V	210	94.00	1.36
4	*2412.00	85.41 AV			1.02 V	210	84.05	1.36
5	4824.00	46.36 PK	74.00	-27.64	1.06 V	321	41.72	4.64
6	4824.00	38.51 AV	54.00	-15.49	1.06 V	321	33.87	4.64
7	#7236.00	52.70 PK	74.00	-21.30	1.00 V	57	43.22	9.48
8	#7236.00	40.96 AV	54.00	-13.04	1.00 V	57	31.48	9.48

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	96.36 PK			1.00 H	269	94.91	1.45
2	*2437.00	86.40 AV			1.00 H	269	84.95	1.45
3	4874.00	45.26 PK	74.00	-28.74	1.00 H	269	40.48	4.78
4	4874.00	38.52 AV	54.00	-15.48	1.00 H	269	33.74	4.78
5	7311.00	52.41 PK	74.00	-21.59	1.00 H	269	42.70	9.71
6	7311.00	40.96 AV	54.00	-13.04	1.00 H	269	31.25	9.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.36 PK			1.00 V	190	98.91	1.45
2	*2437.00	90.55 AV			1.00 V	190	89.10	1.45
3	4874.00	47.36 PK	74.00	-26.64	1.00 V	205	42.58	4.78
4	4874.00	39.50 AV	54.00	-14.50	1.00 V	205	34.72	4.78
5	7311.00	54.26 PK	74.00	-19.74	1.05 V	21	44.55	9.71
6	7311.00	42.36 AV	54.00	-11.64	1.05 V	21	32.65	9.71

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.25 PK			1.00 H	245	99.72	1.53
2	*2462.00	91.36 AV			1.00 H	245	89.83	1.53
3	2483.50	62.55 PK	74.00	-11.45	1.00 H	245	60.94	1.61
4	2483.50	48.10 AV	54.00	-5.90	1.00 H	245	46.49	1.61
5	4924.00	49.63 PK	74.00	-24.37	1.00 H	263	44.70	4.93
6	4924.00	41.02 AV	54.00	-12.98	1.00 H	263	36.09	4.93
7	7386.00	54.26 PK	74.00	-19.74	1.05 H	57	44.32	9.94
8	7386.00	43.38 AV	54.00	-10.62	1.05 H	57	33.44	9.94
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.00 PK			1.00 V	215	98.47	1.53
2	*2462.00	90.26 AV			1.00 V	215	88.73	1.53
3	2483.50	61.25 PK	74.00	-12.75	1.00 V	216	59.64	1.61
4	2483.50	47.82 AV	54.00	-6.18	1.00 V	216	46.21	1.61
5	4924.00	46.36 PK	74.00	-27.64	1.00 V	269	41.43	4.93
6	4924.00	38.52 AV	54.00	-15.48	1.00 V	269	33.59	4.93
7	7386.00	52.68 PK	74.00	-21.32	1.05 V	59	42.74	9.94
8	7386.00	41.03 AV	54.00	-12.97	1.05 V	59	31.09	9.94

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.20 PK	74.00	-13.80	1.00 H	215	58.92	1.28
2	2390.00	46.22 AV	54.00	-7.78	1.00 H	215	44.94	1.28
3	*2412.00	93.20 PK			1.00 H	215	91.84	1.36
4	*2412.00	83.41 AV			1.00 H	215	82.05	1.36
5	4824.00	47.26 PK	74.00	-26.74	1.00 H	69	42.62	4.64
6	4824.00	39.52 AV	54.00	-14.48	1.00 H	69	34.88	4.64
7	#7236.00	54.10 PK	74.00	-19.90	1.05 H	58	44.62	9.48
8	#7236.00	42.69 AV	54.00	-11.31	1.05 H	58	33.21	9.48
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.02 PK	74.00	-12.98	1.00 V	98	59.74	1.28
2	2390.00	47.33 AV	54.00	-6.67	1.00 V	98	46.05	1.28
3	*2412.00	90.36 PK			1.00 V	98	89.00	1.36
4	*2412.00	80.52 AV			1.00 V	98	79.16	1.36
5	4824.00	48.52 PK	74.00	-25.48	1.23 V	36	43.88	4.64
6	4824.00	40.55 AV	54.00	-13.45	1.23 V	36	35.91	4.64
7	#7236.00	54.20 PK	74.00	-19.80	1.04 V	40	44.72	9.48
8	#7236.00	42.69 AV	54.00	-11.31	1.04 V	40	33.21	9.48

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.07 PK			1.05 H	213	98.62	1.45
2	*2437.00	90.26 AV			1.05 H	213	88.81	1.45
3	4874.00	46.36 PK	74.00	-27.64	1.00 H	210	41.58	4.78
4	4874.00	37.52 AV	54.00	-16.48	1.00 H	210	32.74	4.78
5	7311.00	52.04 PK	74.00	-21.96	1.00 H	140	42.33	9.71
6	7311.00	40.96 AV	54.00	-13.04	1.00 H	140	31.25	9.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.51 PK			1.00 V	215	98.06	1.45
2	*2437.00	89.40 AV			1.00 V	215	87.95	1.45
3	4874.00	45.26 PK	74.00	-28.74	1.50 V	216	40.48	4.78
4	4874.00	36.96 AV	54.00	-17.04	1.50 V	216	32.18	4.78
5	7311.00	51.26 PK	74.00	-22.74	1.00 V	269	41.55	9.71
6	7311.00	40.68 AV	54.00	-13.32	1.00 V	269	30.97	9.71

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.76 PK			1.05 H	216	106.23	1.53
2	*2462.00	97.36 AV			1.05 H	216	95.83	1.53
3	2483.50	62.26 PK	74.00	-11.74	1.05 H	216	60.65	1.61
4	2483.50	50.20 AV	54.00	-3.80	1.05 H	216	48.59	1.61
5	4924.00	48.63 PK	74.00	-25.37	1.00 H	210	43.70	4.93
6	4924.00	41.20 AV	54.00	-12.80	1.00 H	210	36.27	4.93
7	7386.00	55.26 PK	74.00	-18.74	1.02 H	269	45.32	9.94
8	7386.00	44.10 AV	54.00	-9.90	1.02 H	269	34.16	9.94
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.21 PK			1.05 V	216	98.68	1.53
2	*2462.00	90.37 AV			1.05 V	216	88.84	1.53
3	2483.50	61.27 PK	74.00	-12.73	1.05 V	216	59.66	1.61
4	2483.50	50.10 AV	54.00	-3.90	1.05 V	216	48.49	1.61
5	4924.00	48.26 PK	74.00	-25.74	1.00 V	210	43.33	4.93
6	4924.00	41.26 AV	54.00	-12.74	1.00 V	210	36.33	4.93
7	7386.00	54.26 PK	74.00	-19.74	1.03 V	310	44.32	9.94
8	7386.00	43.71 AV	54.00	-10.29	1.03 V	310	33.77	9.94

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



802.11n HT20

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.10 PK	74.00	-11.90	1.02 H	210	60.82	1.28
2	2390.00	49.01 AV	54.00	-4.99	1.02 H	210	47.73	1.28
3	*2412.00	93.77 PK			1.02 H	210	92.41	1.36
4	*2412.00	83.55 AV			1.02 H	210	82.19	1.36
5	4824.00	47.25 PK	74.00	-26.75	1.00 H	258	42.61	4.64
6	4824.00	39.55 AV	54.00	-14.45	1.00 H	258	34.91	4.64
7	#7236.00	52.14 PK	74.00	-21.86	1.04 H	40	42.66	9.48
8	#7236.00	40.96 AV	54.00	-13.04	1.04 H	40	31.48	9.48

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	52.36 PK	74.00	-21.64	1.00 V	205	51.08	1.28
2	2390.00	49.08 AV	54.00	-4.92	1.00 V	205	47.80	1.28
3	*2412.00	94.61 PK			1.00 V	205	93.25	1.36
4	*2412.00	84.20 AV			1.00 V	205	82.84	1.36
5	4824.00	48.52 PK	74.00	-25.48	1.00 V	215	43.88	4.64
6	4824.00	40.25 AV	54.00	-13.75	1.00 V	215	35.61	4.64
7	#7236.00	54.41 PK	74.00	-19.59	1.00 V	108	44.93	9.48
8	#7236.00	43.02 AV	54.00	-10.98	1.00 V	108	33.54	9.48

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	93.70 PK			1.00 H	215	92.25	1.45
2	*2437.00	83.57 AV			1.00 H	215	82.12	1.45
3	4874.00	46.36 PK	74.00	-27.64	1.00 H	216	41.58	4.78
4	4874.00	38.52 AV	54.00	-15.48	1.00 H	216	33.74	4.78
5	7311.00	52.10 PK	74.00	-21.90	1.50 H	217	42.39	9.71
6	7311.00	40.33 AV	54.00	-13.67	1.50 H	217	30.62	9.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	94.50 PK			1.05 V	215	93.05	1.45
2	*2437.00	84.33 AV			1.05 V	215	82.88	1.45
3	4874.00	47.20 PK	74.00	-26.80	1.00 V	240	42.42	4.78
4	4874.00	38.69 AV	54.00	-15.31	1.00 V	240	33.91	4.78
5	7311.00	52.71 PK	74.00	-21.29	1.00 V	51	43.00	9.71
6	7311.00	40.68 AV	54.00	-13.32	1.00 V	51	30.97	9.71

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.72 PK			1.00 H	216	104.19	1.53
2	*2462.00	95.81 AV			1.00 H	216	94.28	1.53
3	2483.50	62.30 PK	74.00	-11.70	1.00 H	216	60.69	1.61
4	2483.50	50.68 AV	54.00	-3.32	1.00 H	216	49.07	1.61
5	4924.00	52.50PK	74.00	-21.50	1.05 H	54	47.57	4.93
6	4924.00	40.68 AV	54.00	-13.32	1.05 H	54	35.75	4.93
7	7386.00	54.26 PK	74.00	-19.74	1.06 H	68	44.32	9.94
8	7386.00	42.84 AV	54.00	-11.16	1.06 H	68	32.90	9.94
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.62 PK			1.05 V	210	99.09	1.53
2	*2462.00	90.52 AV			1.05 V	210	88.99	1.53
3	2483.50	64.25 PK	74.00	-9.75	1.05 V	210	62.64	1.61
4	2483.50	50.85 AV	54.00	-3.15	1.05 V	210	49.24	1.61
5	4924.00	47.20 PK	74.00	-26.80	1.00 V	269	42.27	4.93
6	4924.00	39.55 AV	54.00	-14.45	1.00 V	269	34.62	4.93
7	7386.00	54.26 PK	74.00	-19.74	1.03 V	310	44.32	9.94
8	7386.00	42.10 AV	54.00	-11.90	1.03 V	310	32.16	9.94

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

802.11n HT40

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.20 PK	74.00	-12.80	1.05 H	20	59.92	1.28
2	2390.00	47.36 AV	54.00	-6.64	1.05 H	20	46.08	1.28
3	*2422.00	100.70 PK			1.05 H	20	99.30	1.40
4	*2422.00	90.25 AV			1.05 H	20	88.85	1.40
5	4844.00	48.25 PK	74.00	-25.75	1.02 H	210	43.56	4.69
6	4844.00	40.33 AV	54.00	-13.67	1.02 H	210	35.64	4.69
7	7266.00	54.36 PK	74.00	-19.64	1.01 H	269	44.79	9.57
8	7266.00	42.10 AV	54.00	-11.90	1.01 H	269	32.53	9.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.45 PK	74.00	-12.55	1.00 V	210	60.17	1.28
2	2390.00	47.58 AV	54.00	-6.42	1.00 V	210	46.30	1.28
3	*2422.00	95.63 PK			1.00 V	210	94.23	1.40
4	*2422.00	85.10 AV			1.00 V	210	83.70	1.40
5	4844.00	47.20 PK	74.00	-26.80	1.00 V	258	42.51	4.69
6	4844.00	39.52 AV	54.00	-14.48	1.00 V	258	34.83	4.69
7	7266.00	54.10 PK	74.00	-19.90	1.02 V	236	44.53	9.57
8	7266.00	42.51 AV	54.00	-11.49	1.02 V	236	32.94	9.57

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.50 PK			1.00 H	269	99.05	1.45
2	*2437.00	90.24 AV			1.00 H	269	88.79	1.45
3	4874.00	45.36 PK	74.00	-28.64	1.02 H	270	40.58	4.78
4	4874.00	36.51 AV	54.00	-17.49	1.02 H	270	31.73	4.78
5	7311.00	55.26 PK	74.00	-18.74	1.00 H	219	45.55	9.71
6	7311.00	43.40 AV	54.00	-10.60	1.00 H	219	33.69	9.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	95.62 PK			1.00 V	140	94.17	1.45
2	*2437.00	85.41 AV			1.00 V	140	83.96	1.45
3	4874.00	48.25 PK	74.00	-25.75	1.03 V	320	43.47	4.78
4	4874.00	40.66 AV	54.00	-13.34	1.03 V	320	35.88	4.78
5	7311.00	53.41 PK	74.00	-20.59	1.00 V	210	43.70	9.71
6	7311.00	42.18 AV	54.00	-11.82	1.00 V	210	32.47	9.71

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	96.54 PK			1.02 H	210	95.05	1.49
2	*2452.00	86.41 AV			1.02 H	210	84.92	1.49
3	2483.50	52.29 PK	74.00	-21.71	1.02 H	210	50.68	1.61
4	2483.50	50.21 AV	54.00	-3.79	1.02 H	210	48.60	1.61
5	4910.00	46.36 PK	74.00	-27.64	1.00 H	240	41.47	4.89
6	4910.00	38.59 AV	54.00	-15.41	1.00 H	240	33.70	4.89
7	7365.00	54.26 PK	74.00	-19.74	1.00 H	40	44.39	9.87
8	7365.00	42.57 AV	54.00	-11.43	1.00 H	40	32.70	9.87
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	99.20 PK			1.00 V	250	97.71	1.49
2	*2452.00	89.21 AV			1.00 V	250	87.72	1.49
3	2483.50	62.51 PK	74.00	-11.49	1.00 V	250	60.90	1.61
4	2483.50	50.96 AV	54.00	-3.04	1.00 V	250	49.35	1.61
5	4910.00	47.52 PK	74.00	-26.48	1.00 V	69	42.63	4.89
6	4910.00	41.26 AV	54.00	-12.74	1.00 V	69	36.37	4.89
7	7365.00	54.10 PK	74.00	-19.90	1.05 V	59	44.23	9.87
8	7365.00	42.36 AV	54.00	-11.64	1.05 V	59	32.49	9.87

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11ax HE20

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.58 PK	74.00	-12.42	1.00 H	269	60.30	1.28
2	2390.00	50.14 AV	54.00	-3.86	1.00 H	269	48.86	1.28
3	*2412.00	102.93 PK			1.00 H	269	101.57	1.36
4	*2412.00	92.58 AV			1.00 H	269	91.22	1.36
5	4824.00	48.36 PK	74.00	-25.64	1.06 H	326	43.72	4.64
6	4824.00	40.77 AV	54.00	-13.23	1.06 H	326	36.13	4.64
7	#7236.00	53.36 PK	74.00	-20.64	1.07 H	150	43.88	9.48
8	#7236.00	41.85 AV	54.00	-12.15	1.07 H	150	32.37	9.48
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.91 PK	74.00	-12.09	1.00 V	240	60.63	1.28
2	2390.00	47.89 AV	54.00	-6.11	1.00 V	240	46.61	1.28
3	*2412.00	103.51 PK			1.00 V	240	102.15	1.36
4	*2412.00	93.58 AV			1.00 V	240	92.22	1.36
5	4824.00	48.25 PK	74.00	-25.75	1.00 V	52	43.61	4.64
6	4824.00	40.25 AV	54.00	-13.75	1.00 V	52	35.61	4.64
7	#7236.00	52.10 PK	74.00	-21.90	1.02 V	210	42.62	9.48
8	#7236.00	40.69 AV	54.00	-13.31	1.02 V	210	31.21	9.48

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.80 PK			1.00 H	216	103.35	1.45
2	*2437.00	94.25 AV			1.00 H	216	92.80	1.45
3	4874.00	50.26 PK	74.00	-23.74	1.00 H	96	45.48	4.78
4	4874.00	42.36 AV	54.00	-11.64	1.00 H	96	37.58	4.78
5	7311.00	54.26 PK	74.00	-19.74	1.00 H	41	44.55	9.71
6	7311.00	43.37 AV	54.00	-10.63	1.00 H	41	33.66	9.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	92.83 PK			1.02 V	213	91.38	1.45
2	*2437.00	82.69 AV			1.02 V	213	81.24	1.45
3	4874.00	48.40 PK	74.00	-25.60	1.00 V	215	43.62	4.78
4	4874.00	40.70 AV	54.00	-13.30	1.00 V	215	35.92	4.78
5	7311.00	52.69 PK	74.00	-21.31	1.00 V	120	42.98	9.71
6	7311.00	44.50 AV	54.00	-9.50	1.00 V	120	34.79	9.71

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.62 PK			1.00 H	240	101.09	1.53
2	*2462.00	92.85 AV			1.00 H	240	91.32	1.53
3	2483.50	51.36 PK	74.00	-22.64	1.00 H	240	49.75	1.61
4	2483.50	47.96 AV	54.00	-6.04	1.00 H	240	46.35	1.61
5	4924.00	48.36 PK	74.00	-25.64	1.00 H	59	43.43	4.93
6	4924.00	40.25 AV	54.00	-13.75	1.00 H	59	35.32	4.93
7	7386.00	54.23 PK	74.00	-19.77	1.20 H	240	44.29	9.94
8	7386.00	42.69 AV	54.00	-11.31	1.20 H	240	32.75	9.94
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.00 PK			1.00 V	257	101.47	1.53
2	*2462.00	93.51 AV			1.00 V	257	91.98	1.53
3	2483.50	62.10 PK	74.00	-11.90	1.00 V	257	60.49	1.61
4	2483.50	48.69 AV	54.00	-5.31	1.00 V	257	47.08	1.61
5	4924.00	48.36 PK	74.00	-25.64	1.00 V	85	43.43	4.93
6	4924.00	40.11 AV	54.00	-13.89	1.00 V	85	35.18	4.93
7	7386.00	54.10 PK	74.00	-19.90	1.02 V	275	44.16	9.94
8	7386.00	42.36 AV	54.00	-11.64	1.02 V	275	32.42	9.94

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).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

802.11ax HE40

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.25 PK	74.00	-12.75	1.01 H	140	59.97	1.28
2	2390.00	47.52 AV	54.00	-6.48	1.01 H	140	46.24	1.28
3	*2422.00	100.26 PK			1.01 H	140	98.86	1.40
4	*2422.00	90.26 AV			1.01 H	140	88.86	1.40
5	4844.00	48.26 PK	74.00	-25.74	1.00 H	219	43.57	4.69
6	4844.00	40.33 AV	54.00	-13.67	1.00 H	219	35.64	4.69
7	7266.00	54.10 PK	74.00	-19.90	1.06 H	69	44.53	9.57
8	7266.00	42.57 AV	54.00	-11.43	1.06 H	69	33.00	9.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.58 PK	74.00	-13.42	1.20 V	213	59.30	1.28
2	2390.00	46.71 AV	54.00	-7.29	1.20 V	213	45.43	1.28
3	*2422.00	100.36 PK			1.20 V	213	98.96	1.40
4	*2422.00	90.69 AV			1.20 V	213	89.29	1.40
5	4844.00	49.36 PK	74.00	-24.64	1.00 V	258	44.67	4.69
6	4844.00	42.03 AV	54.00	-11.97	1.00 V	258	37.34	4.69
7	7266.00	56.36 PK	74.00	-17.64	1.00 V	258	46.79	9.57
8	7266.00	45.10 AV	54.00	-8.90	1.00 V	258	35.53	9.57

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.52 PK			1.00 H	275	98.07	1.45
2	*2437.00	89.54 AV			1.00 H	275	88.09	1.45
3	4874.00	45.26 PK	74.00	-28.74	1.20 H	216	40.48	4.78
4	4874.00	37.41 AV	54.00	-16.59	1.20 H	216	32.63	4.78
5	7311.00	50.36 PK	74.00	-23.64	1.00 H	40	40.65	9.71
6	7311.00	39.85 AV	54.00	-14.15	1.00 H	40	30.14	9.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.25 PK			1.20 V	102	95.80	1.45
2	*2437.00	86.36 AV			1.20 V	102	84.91	1.45
3	4874.00	47.26 PK	74.00	-26.74	1.00 V	258	42.48	4.78
4	4874.00	39.62 AV	54.00	-14.38	1.00 V	258	34.84	4.78
5	7311.00	52.41 PK	74.00	-21.59	1.02 V	206	42.70	9.71
6	7311.00	41.03 AV	54.00	-12.97	1.02 V	206	31.32	9.71

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



Test Report No.: RF2206WDG0112-2

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	100.24 PK			1.02 H	219	98.75	1.49
2	*2452.00	89.57 AV			1.02 H	219	88.08	1.49
3	2483.50	62.88 PK	74.00	-11.12	1.02 H	219	61.27	1.61
4	2483.50	47.85 AV	54.00	-6.15	1.02 H	219	46.24	1.61
5	4904.00	48.36 PK	74.00	-25.64	1.00 H	216	43.49	4.87
6	4904.00	41.21 AV	54.00	-12.79	1.00 H	216	36.34	4.87
7	7356.00	55.54 PK	74.00	-18.46	1.00 H	215	45.70	9.84
8	7356.00	43.37 AV	54.00	-10.63	1.00 H	215	33.53	9.84
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	98.52 PK			1.02 V	236	97.03	1.49
2	*2452.00	88.36 AV			1.02 V	236	86.87	1.49
3	2483.50	61.25 PK	74.00	-12.75	1.02 V	216	59.64	1.61
4	2483.50	48.36 AV	54.00	-5.64	1.02 V	216	46.75	1.61
5	4904.00	48.25 PK	74.00	-25.75	1.00 V	52	43.38	4.87
6	4904.00	40.66 AV	54.00	-13.34	1.00 V	52	35.79	4.87
7	7356.00	53.36 PK	74.00	-20.64	1.00 V	218	43.52	9.84
8	7356.00	41.57 AV	54.00	-12.43	1.00 V	218	31.73	9.84

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Feb. 23, 23
Power Sensor	Keysight	U2021XA	MY55060018	Feb. 23, 23
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Nov. 03, 22
Oscilloscope	Agilent	DSO9254A	MY51260160	Aug. 11, 22
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 16, 23
Signal Generator	Agilent	N5183A	MY50140980	Sep. 18, 22
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 14, 22
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

- NOTES:** 1. The test was performed in RF Oven room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

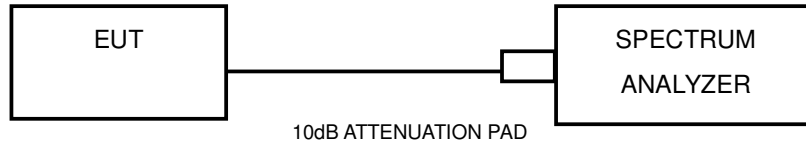
4.3.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100KHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	10.13	10.11	0.5	PASS
6	2437	10.12	10.12	0.5	PASS
11	2462	10.13	10.12	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	15.05	15.09	0.5	PASS
6	2437	15.07	15.08	0.5	PASS
11	2462	15.02	13.81	0.5	PASS

802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	15.08	15.03	0.5	PASS
6	2437	15.09	15.03	0.5	PASS
11	2462	15.06	15.08	0.5	PASS

802.11n HT40

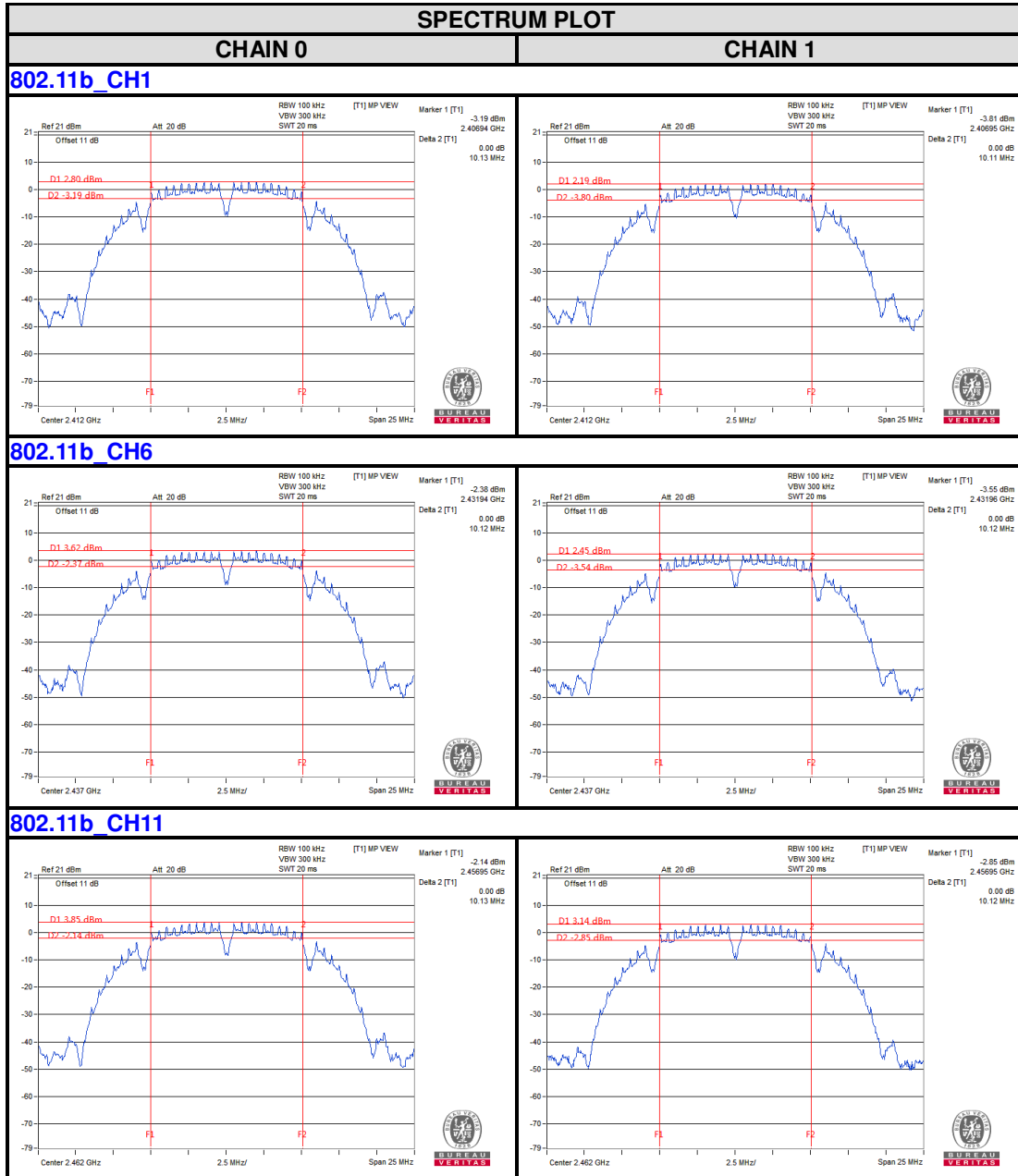
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	33.80	33.88	0.5	PASS
6	2437	33.81	33.89	0.5	PASS
9	2452	35.08	35.09	0.5	PASS

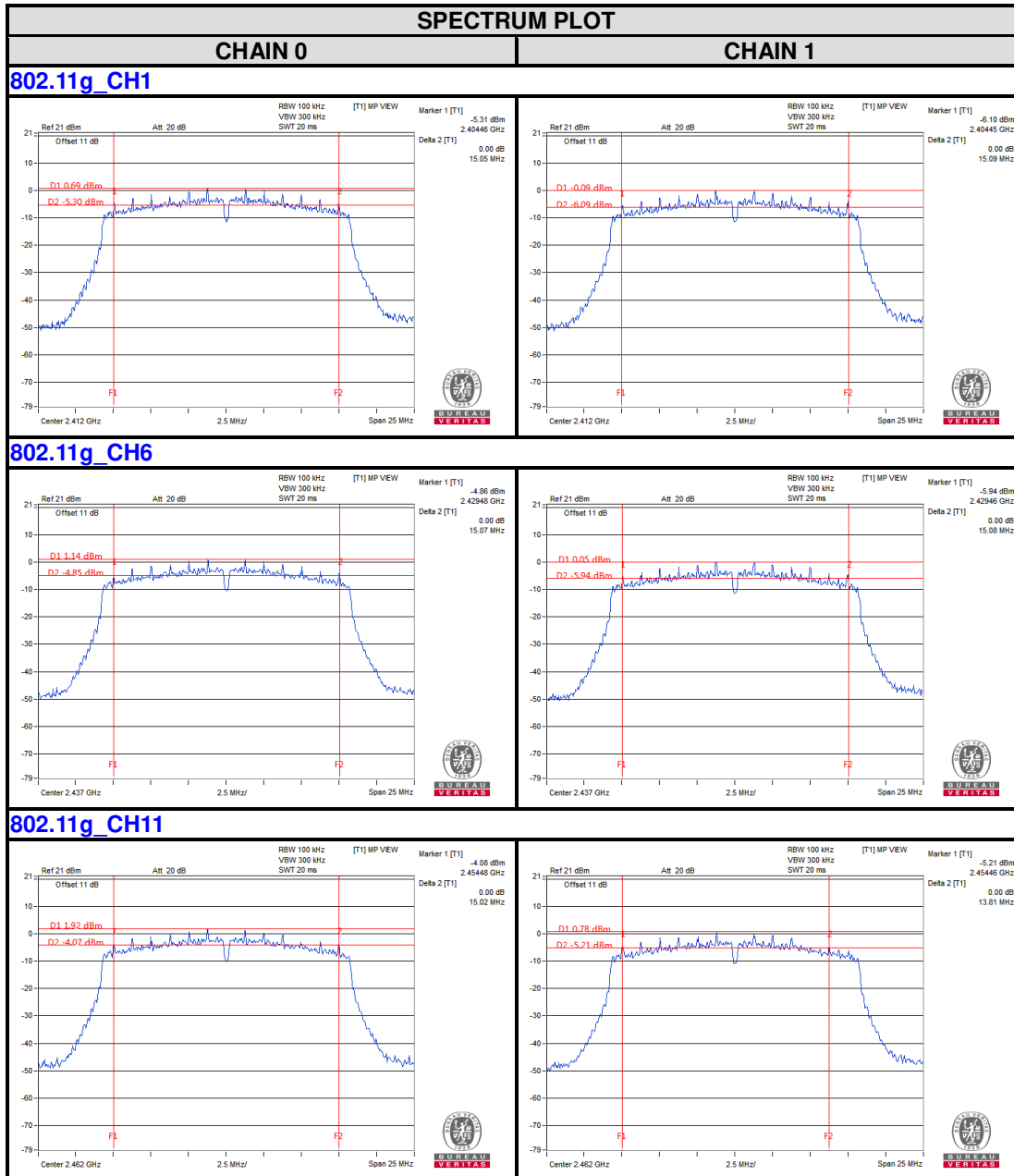
802.11ax HE20

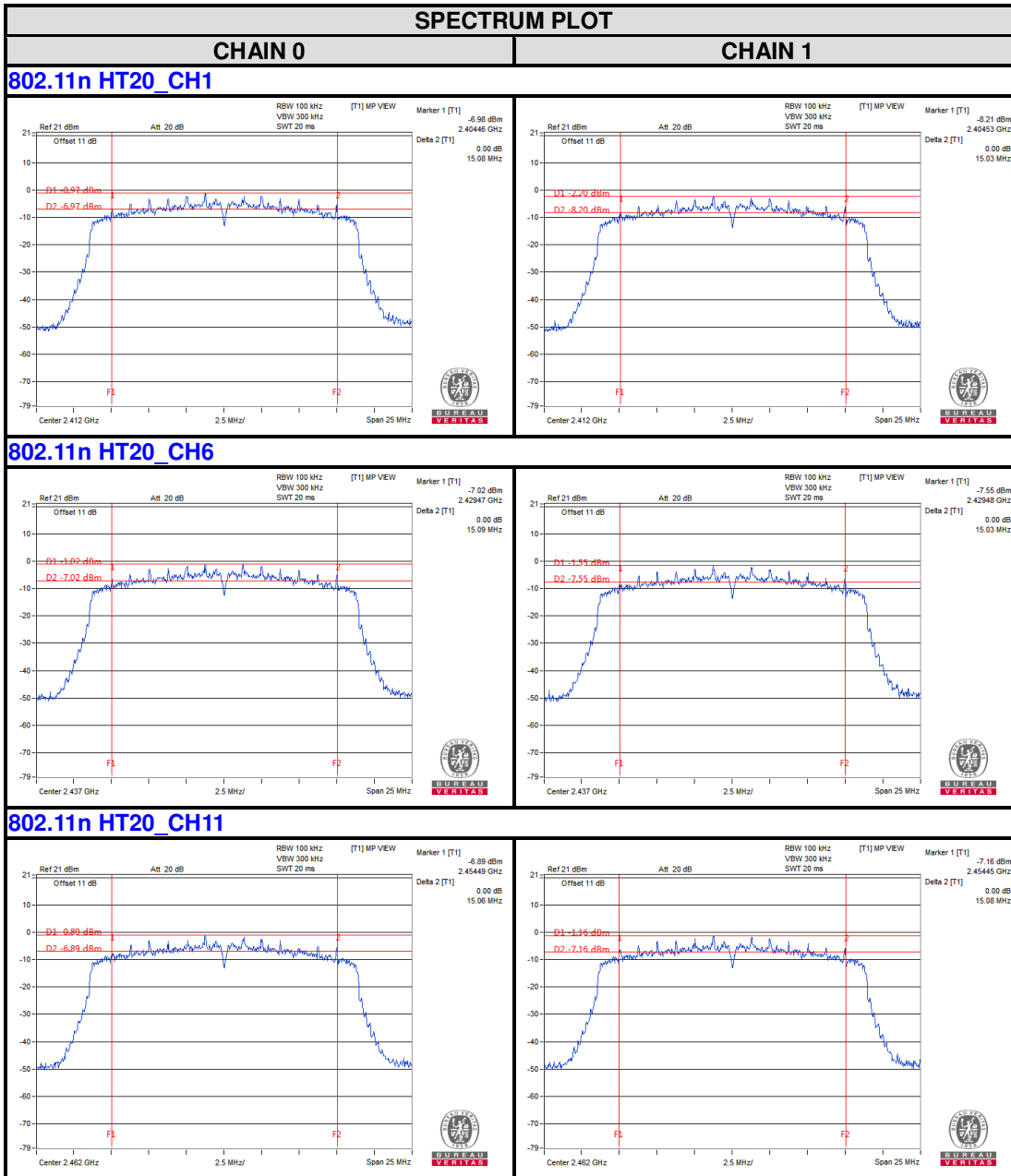
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	15.07	15.06	0.5	PASS
6	2437	15.14	15.10	0.5	PASS
11	2462	15.09	15.10	0.5	PASS

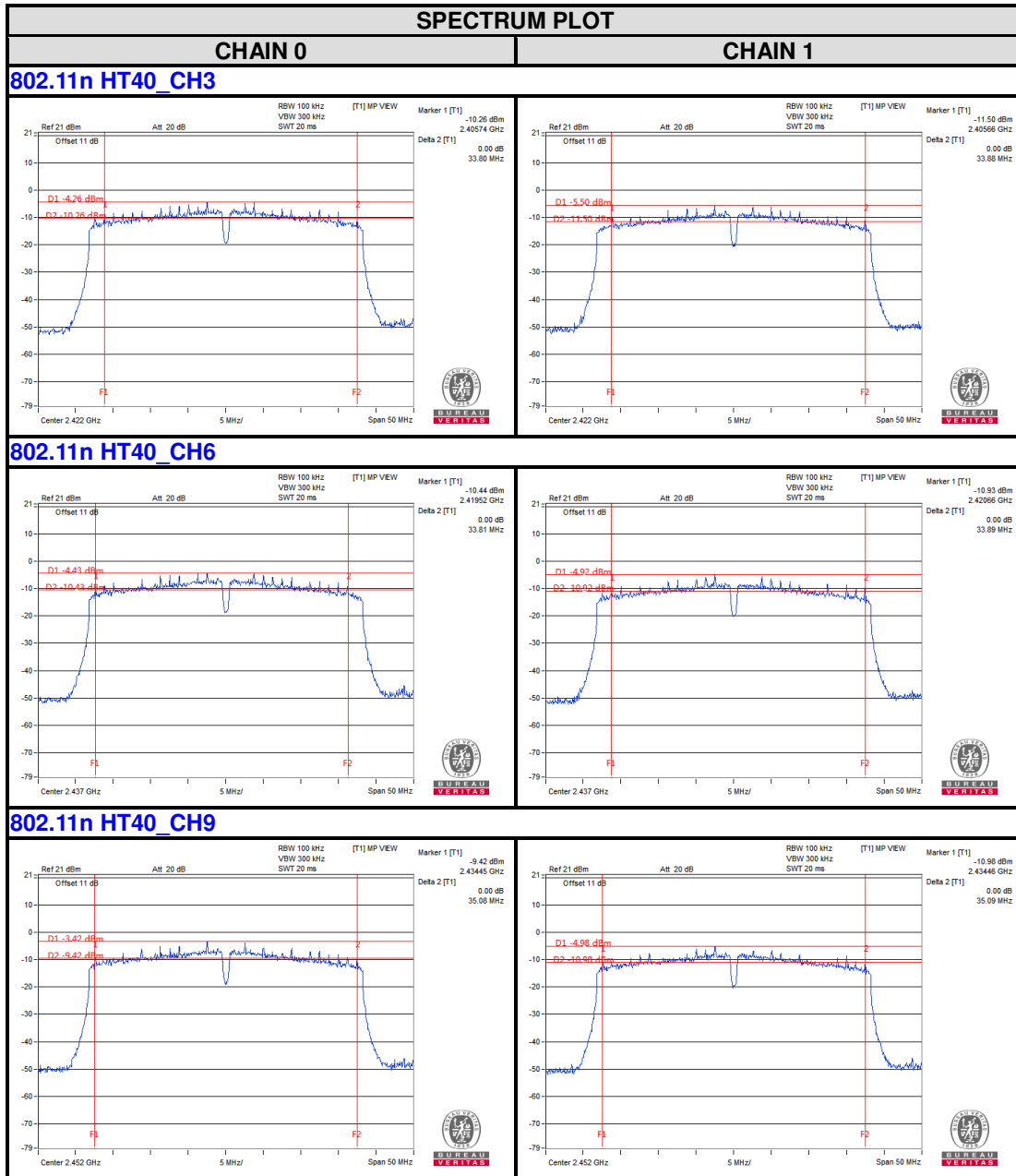
802.11ax HE40

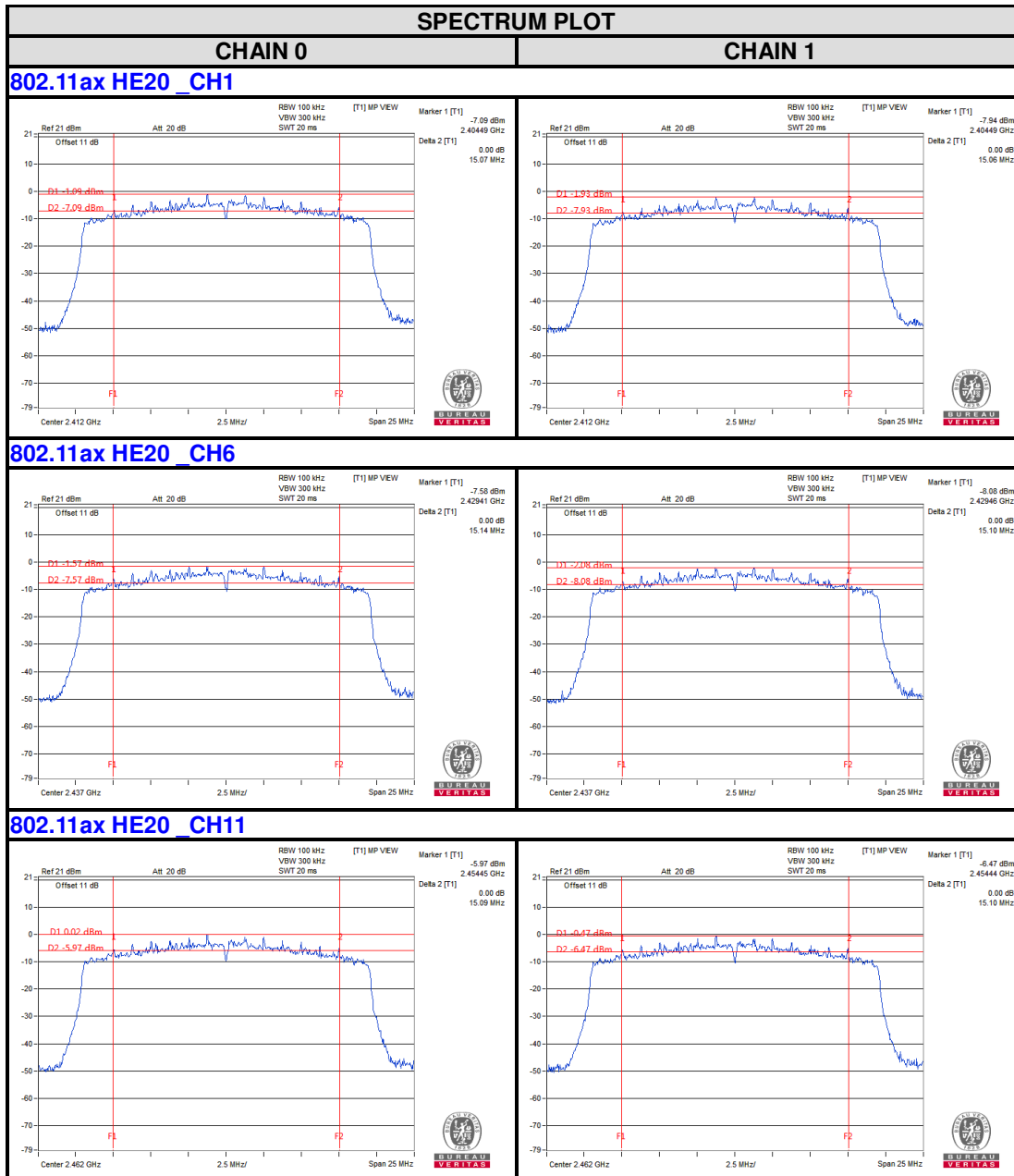
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	35.30	35.12	0.5	PASS
6	2437	35.10	36.02	0.5	PASS
9	2452	35.13	35.14	0.5	PASS

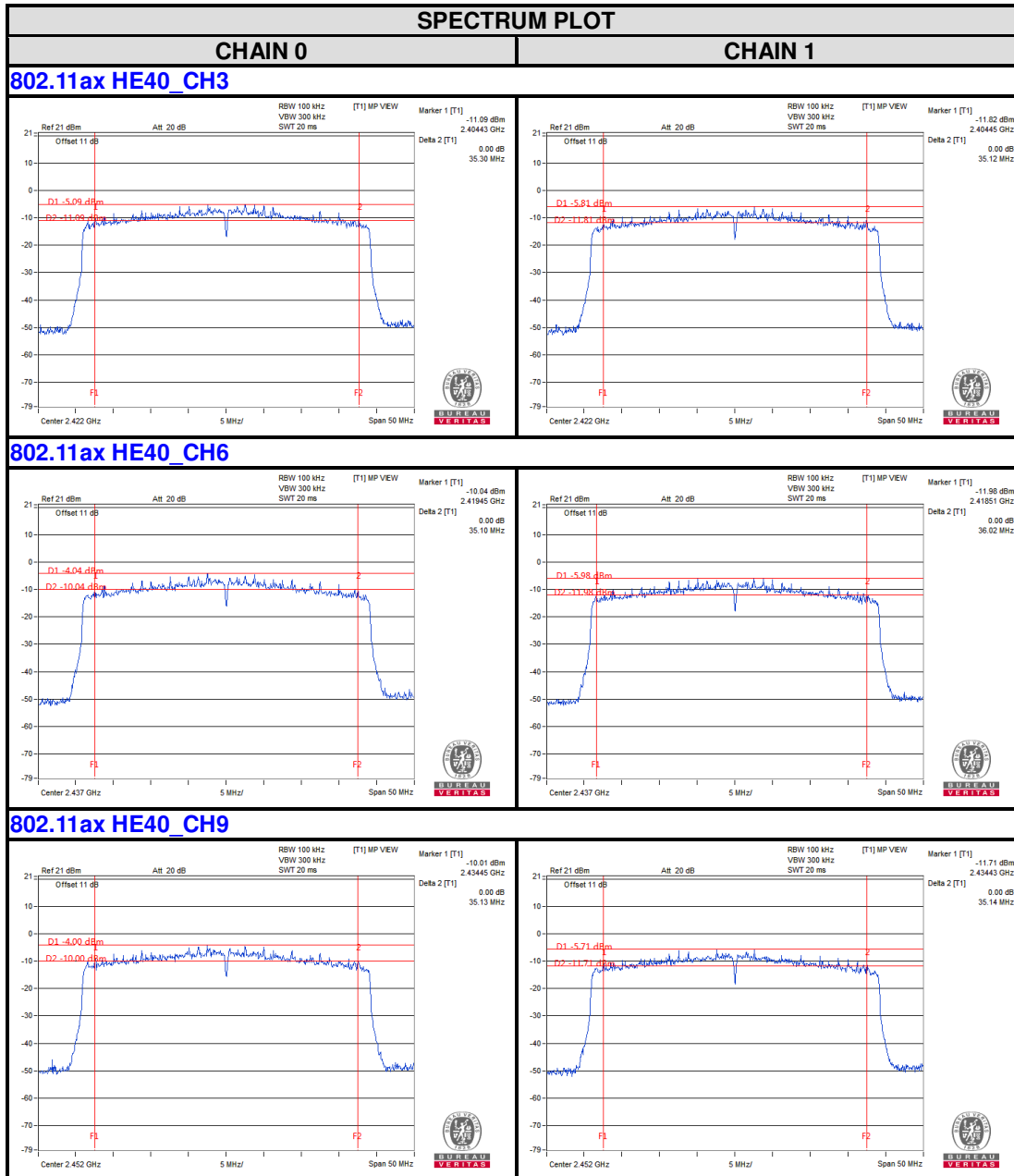










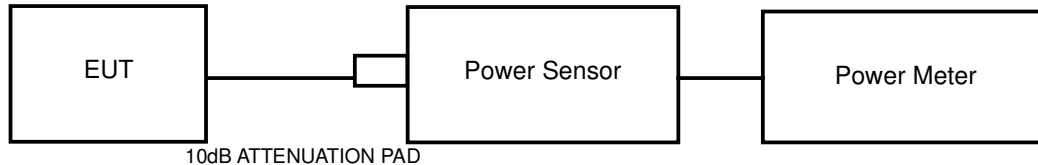


4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm).

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Feb. 23, 23
Power Sensor	Keysight	U2021XA	MY55060018	Feb. 23, 23
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Nov. 03, 22
Oscilloscope	Agilent	DSO9254A	MY51260160	Aug. 11, 22
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 16, 23
Signal Generator	Agilent	N5183A	MY50140980	Sep. 18, 22
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 14, 22
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.

An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

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

4.4.7 TEST RESULTS

MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
1	2412	15.45	14.79	35.075	30.13	65.205	18.14	1	PASS
6	2437	16.74	15.74	47.206	37.497	84.703	19.28	1	PASS
11	2462	17.07	16.47	50.933	44.361	95.294	19.79	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
1	2412	19.25	18.86	84.14	76.913	161.053	22.07	1	PASS
6	2437	19.75	19.13	94.406	81.846	176.252	22.46	1	PASS
11	2462	20.44	19.56	110.662	90.365	201.027	23.03	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
1	2412	18.02	17.36	63.387	54.45	117.837	20.71	1	PASS
6	2437	18.55	17.30	71.614	53.703	125.317	20.98	1	PASS
11	2462	19.24	17.73	83.946	59.293	143.239	21.56	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

802.11n HT40

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
3	2422	17.70	16.83	58.884	48.195	107.079	20.30	1	PASS
6	2437	18.16	17.09	65.464	51.168	116.632	20.67	1	PASS
9	2452	18.55	17.19	71.614	52.36	123.974	20.93	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

802.11ax(HE20)

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
1	2412	19.45	18.96	88.105	78.705	166.81	22.22	1	PASS
6	2437	19.91	19.25	97.949	84.14	182.089	22.60	1	PASS
11	2462	20.18	19.58	104.232	90.782	195.014	22.90	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

802.11ax(HE40)

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (dBm)		CONDUCTED POWER (mW)		TOTAL MAX. POWER OUTPUT		PEAK POWER LIMIT (W)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	mW	dBm		
3	2422	19.50	18.34	89.125	68.234	157.359	21.97	1	PASS
6	2437	19.57	18.79	90.573	75.683	166.256	22.21	1	PASS
9	2452	19.80	19.11	95.499	81.47	176.969	22.48	1	PASS

NOTE: Directional gain = 3.04dBi < 6dBi , so the limit is no need to be reduced.

AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
1	2412	12.61	12.33	18.239	17.100	15.48	35.339
6	2437	13.59	12.91	22.856	19.543	16.27	42.399
11	2462	14.14	13.36	25.942	21.677	16.78	47.619

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
1	2412	11.44	10.75	13.932	11.885	14.12	25.817
6	2437	11.94	11.01	15.631	12.618	14.51	28.249
11	2462	12.64	11.42	18.365	13.868	15.08	32.233

802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
1	2412	9.63	8.93	9.183	7.816	12.30	16.999
6	2437	10.12	9.04	10.28	8.017	12.62	18.297
11	2462	10.87	9.47	12.218	8.851	13.24	21.069

802.11n HT40

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
3	2422	9.42	8.63	8.75	7.295	12.05	16.045
6	2437	9.87	8.76	9.705	7.516	12.36	17.221
9	2452	10.29	9.06	10.691	8.054	12.73	18.745

802.11ax(HE20)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
1	2412	9.42	9.06	8.75	8.054	12.25	16.804
6	2437	9.95	9.21	9.886	8.337	12.61	18.223
11	2462	10.39	9.66	10.94	9.247	13.05	20.187

802.11ax(HE40)

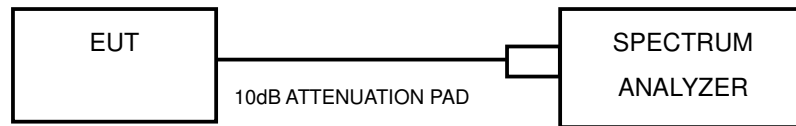
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		AVERAGE POWER (mW)		TOTAL POWER (dBm)	TOTAL POWER (mW)
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
3	2422	9.49	8.77	8.892	7.534	12.16	16.426
6	2437	9.85	9.12	9.661	8.166	12.51	17.827
9	2452	10.08	9.35	10.186	8.610	12.74	18.796

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the DTS Bandwidth.
- c) Set RBW to: 3KHz
- d) Set VBW $\geq 3 \times$ RBW.
- e) Detector = peak
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- g) Sweep time = auto couple.
- h) Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.

4.5.7 TEST RESULTS

802.11b

Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
1	2412	-12.79	-13.16	-9.96	7.95	PASS
6	2437	-11.90	-12.44	-9.15	7.95	PASS
11	2462	-11.49	-11.94	-8.70	7.95	PASS

NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
1	2412	-15.62	-17.70	-13.53	7.95	PASS
6	2437	-15.48	-16.91	-13.13	7.95	PASS
11	2462	-14.73	-16.80	-12.63	7.95	PASS

NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

802.11n HT20

Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
1	2412	-18.28	-18.44	-15.35	7.95	PASS
6	2437	-17.76	-18.32	-15.02	7.95	PASS
11	2462	-16.85	-17.99	-14.37	7.95	PASS

NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

802.11n HT40

Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
3	2422	-21.31	-22.07	-18.66	7.95	PASS
6	2437	-20.42	-21.97	-18.12	7.95	PASS
9	2452	-19.85	-21.77	-17.69	7.95	PASS

NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

802.11ax HE20

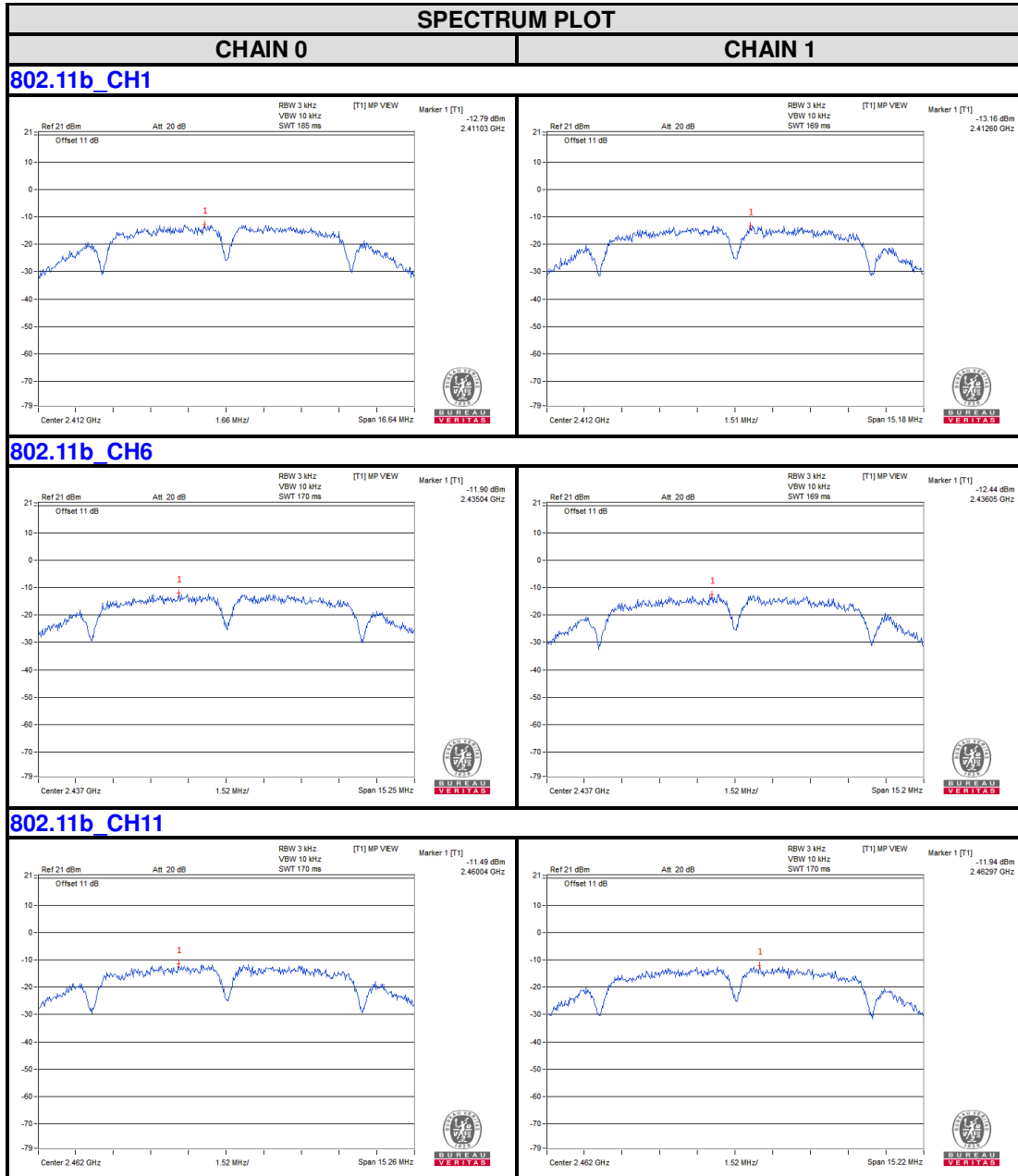
Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
1	2412	-15.21	-16.01	-12.58	7.95	PASS
6	2437	-14.58	-15.81	-12.14	7.95	PASS
11	2462	-14.17	-15.72	-11.87	7.95	PASS

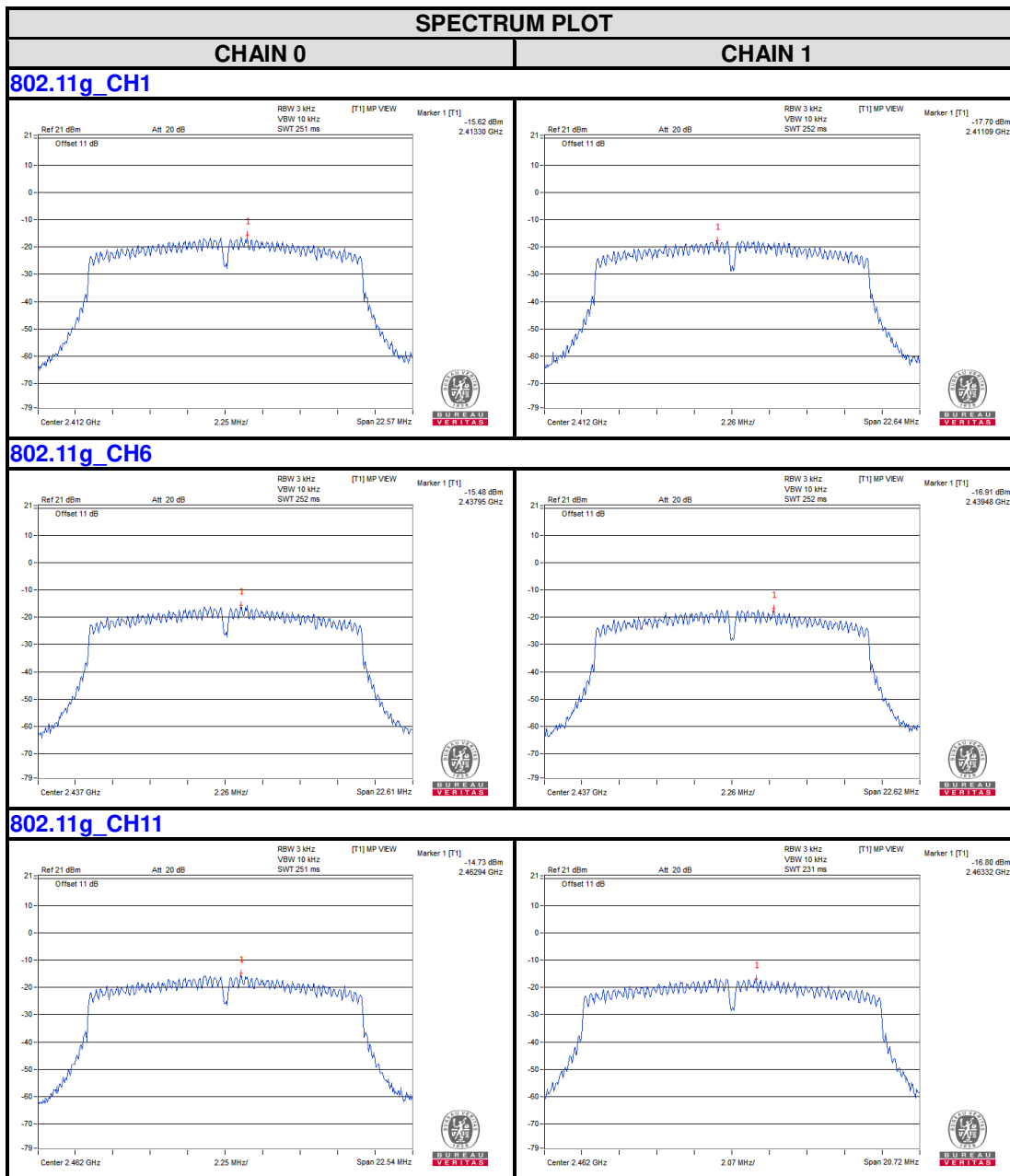
NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

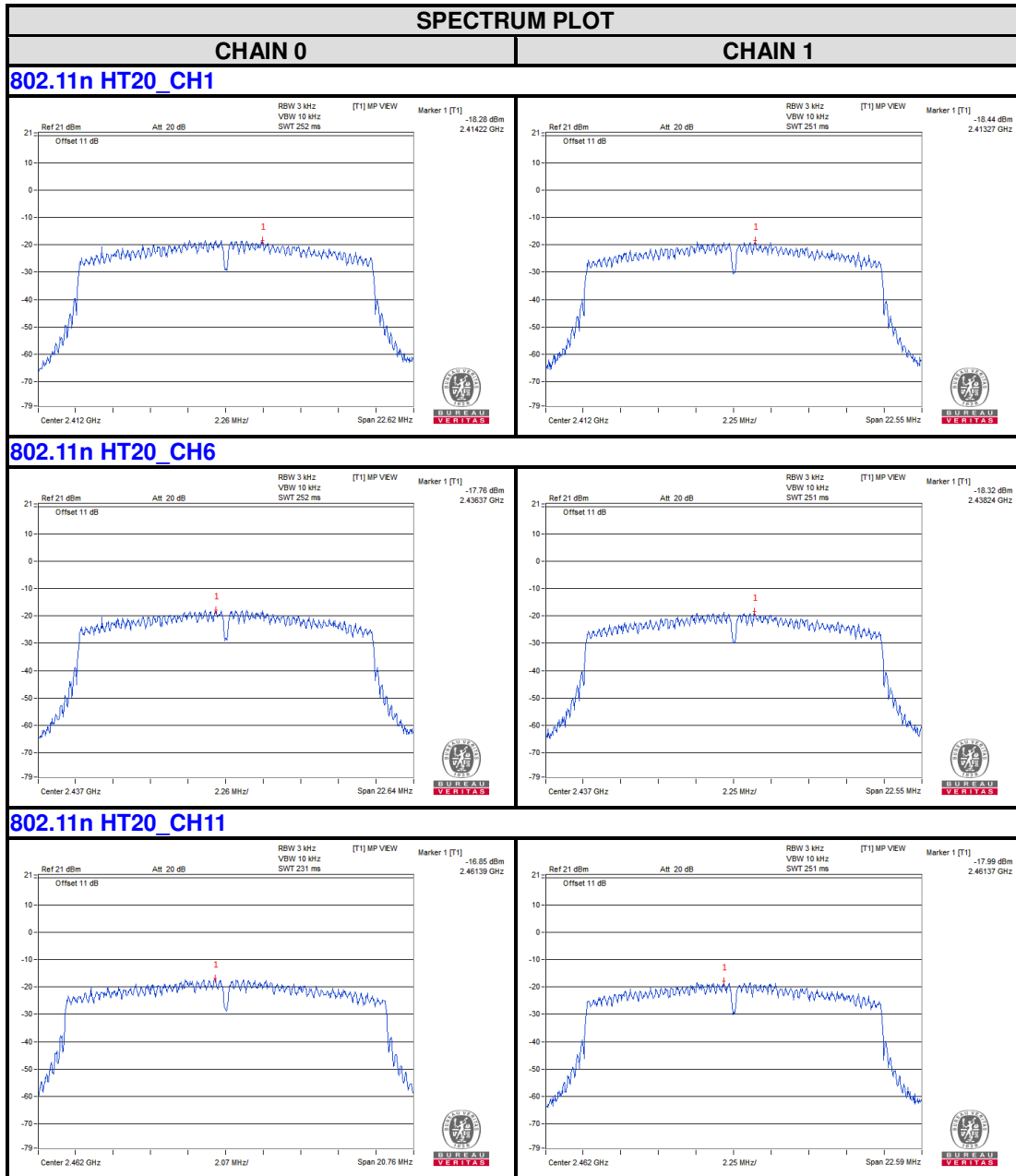
802.11ax HE40

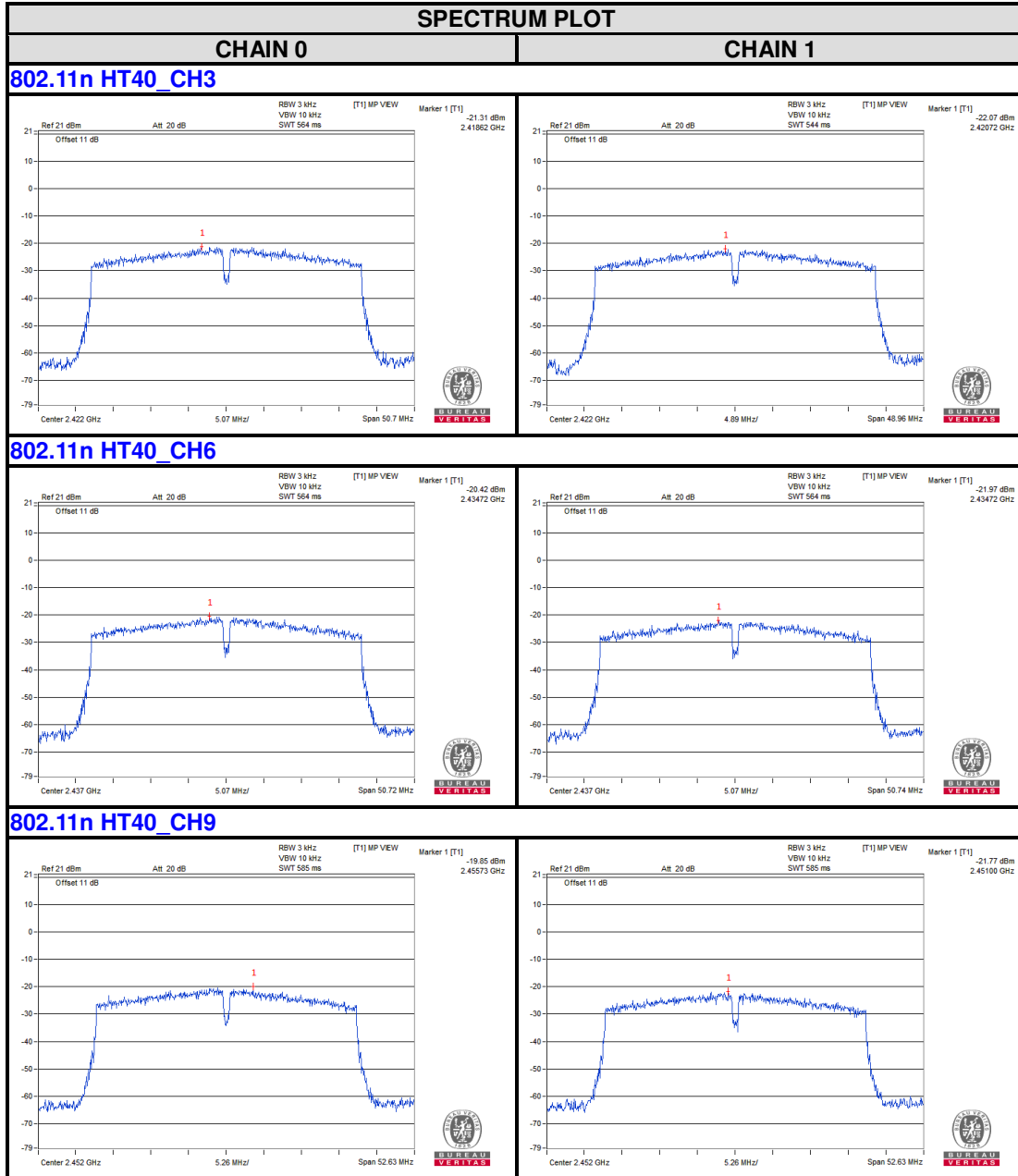
Channel	FREQ. (MHz)	PSD (dBm/3kHz)		TOTAL (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
		Chain 0	Chain 1			
3	2422	-19.34	-20.20	-16.74	7.95	PASS
6	2437	-19.22	-21.07	-17.04	7.95	PASS
9	2452	-18.66	-19.65	-16.12	7.95	PASS

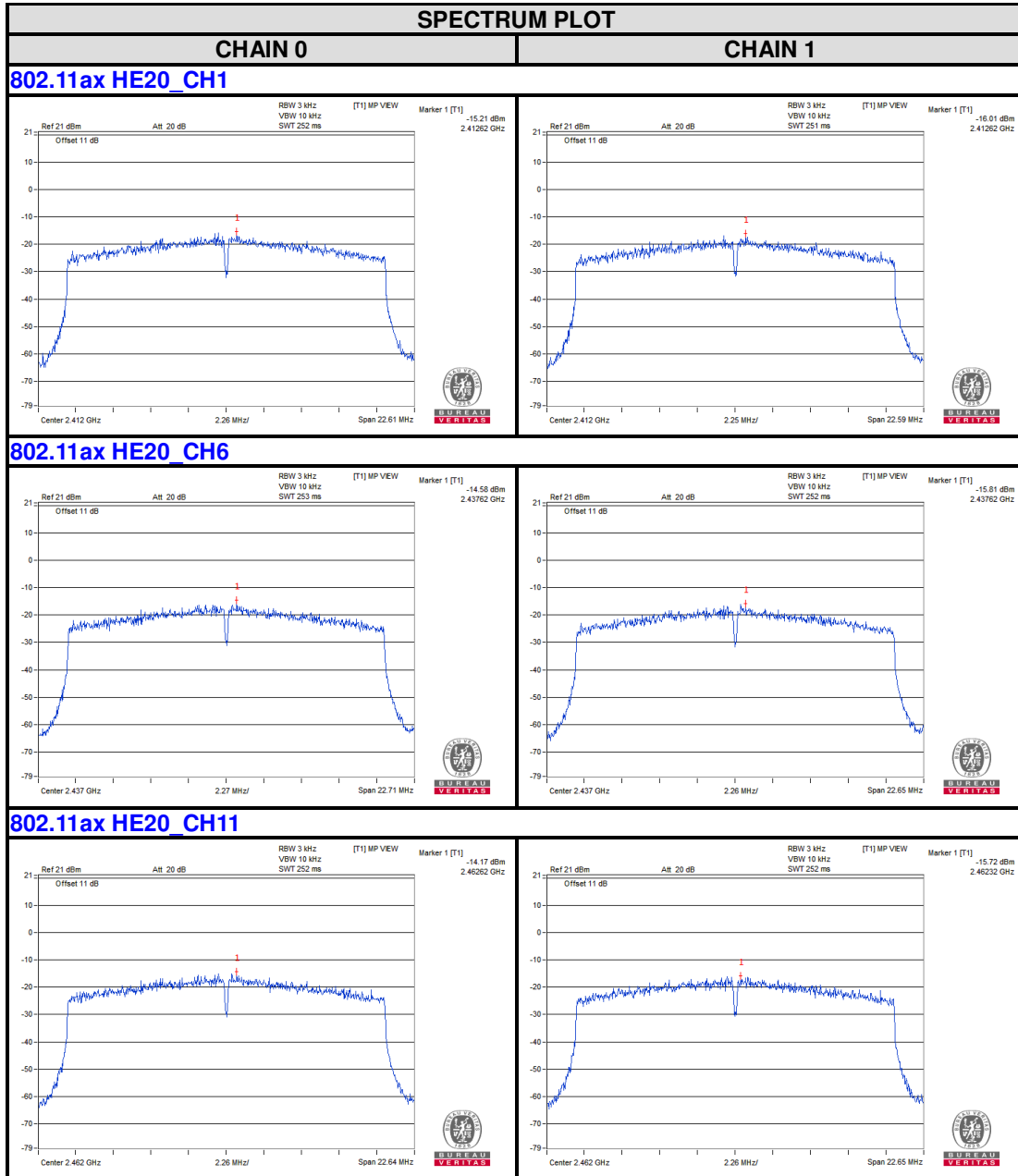
NOTE: Directional gain = 3.04dBi + 10log(2) = 6.05dBi > 6dBi, , so the power density limit shall be reduced to 8-(6.05-6) = 7.95dBm.

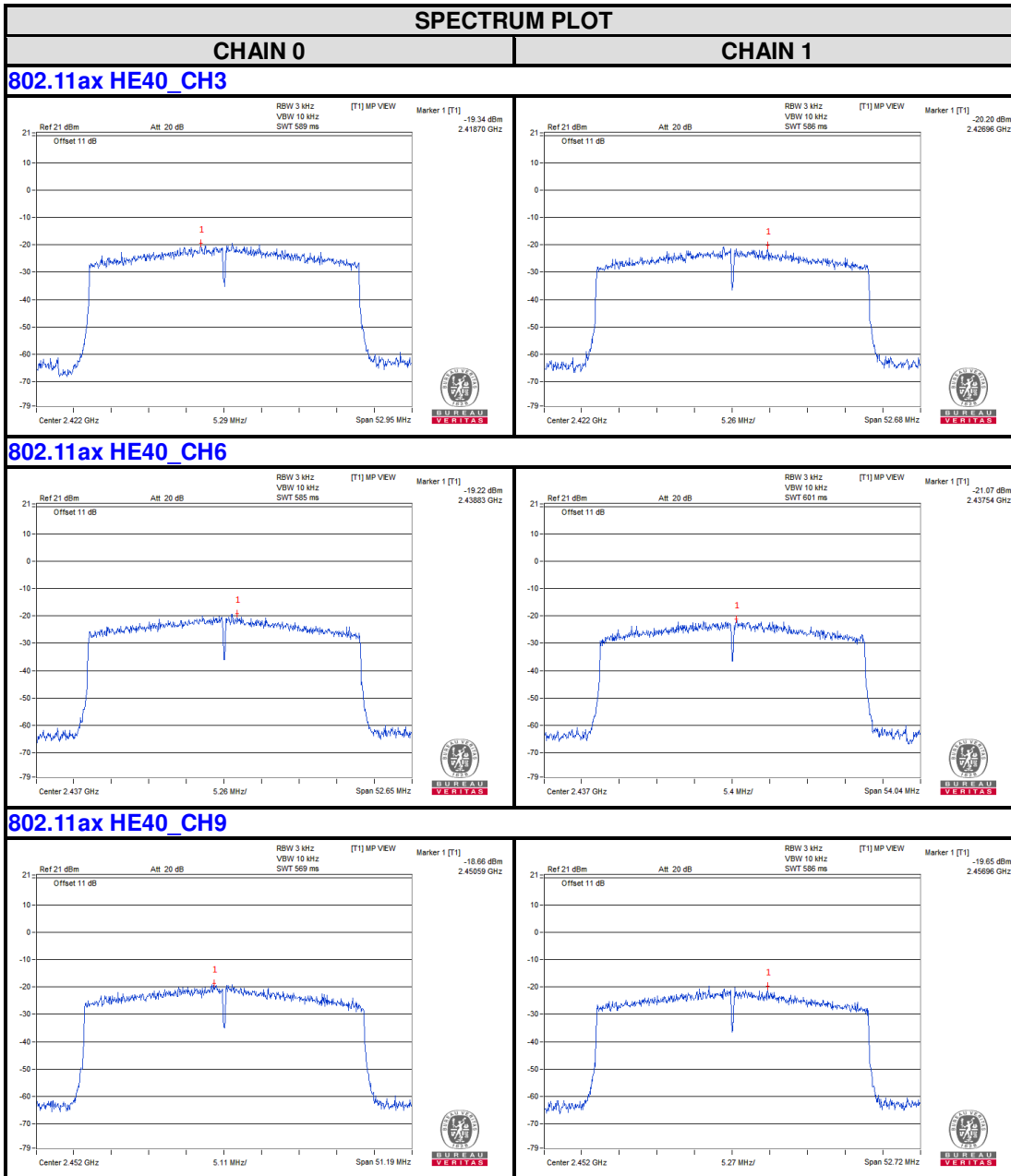










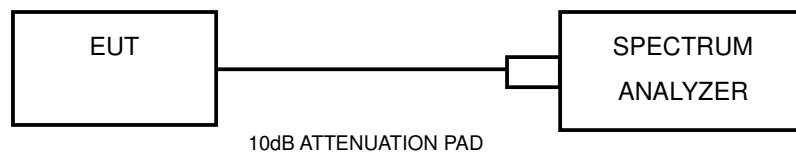


4.6 OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

Measurement Procedure - Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



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Measurement Procedure –Unwanted Emission Level

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

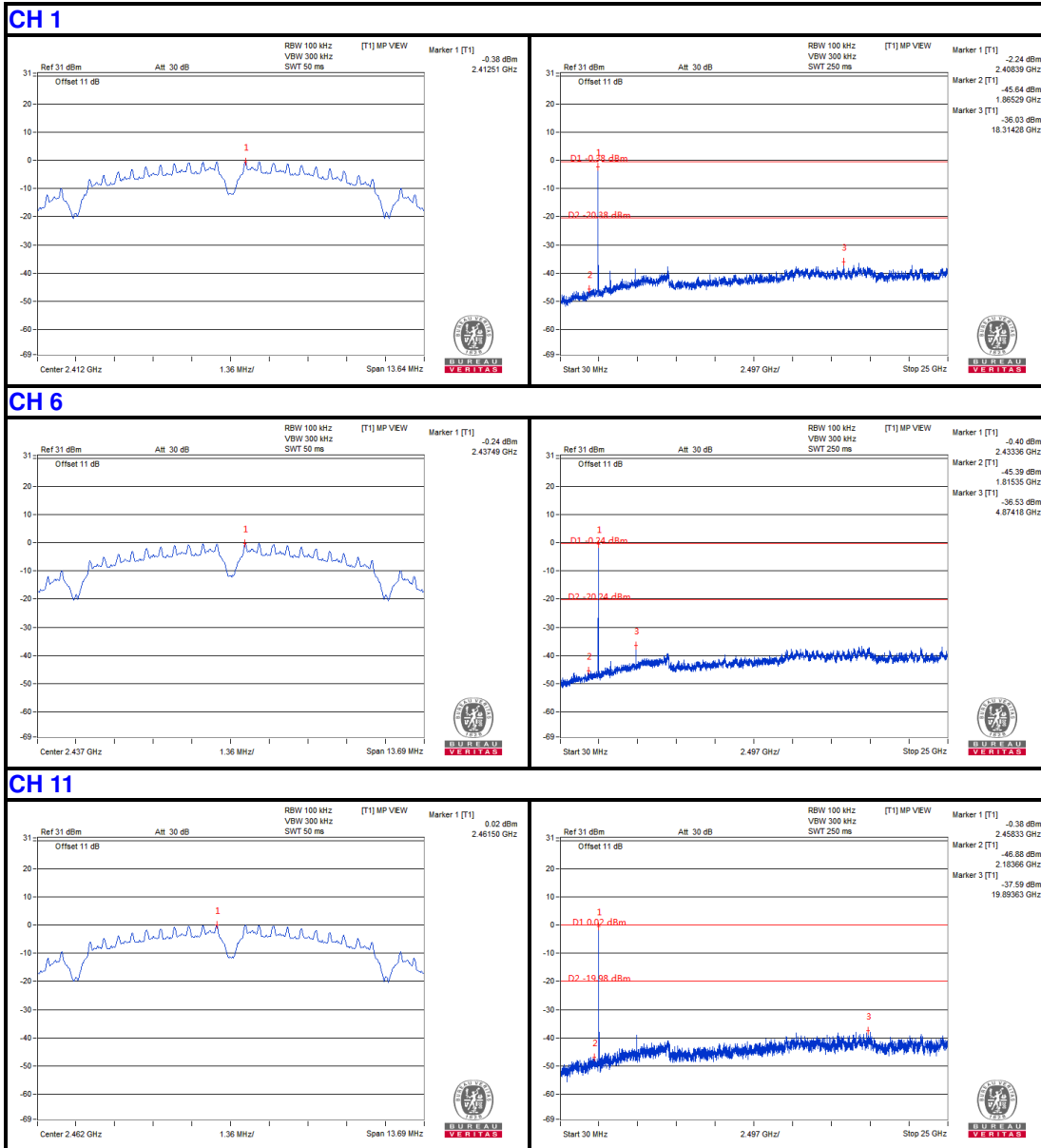
4.6.6 EUT OPERATING CONDITION

Same as item 4.3.6

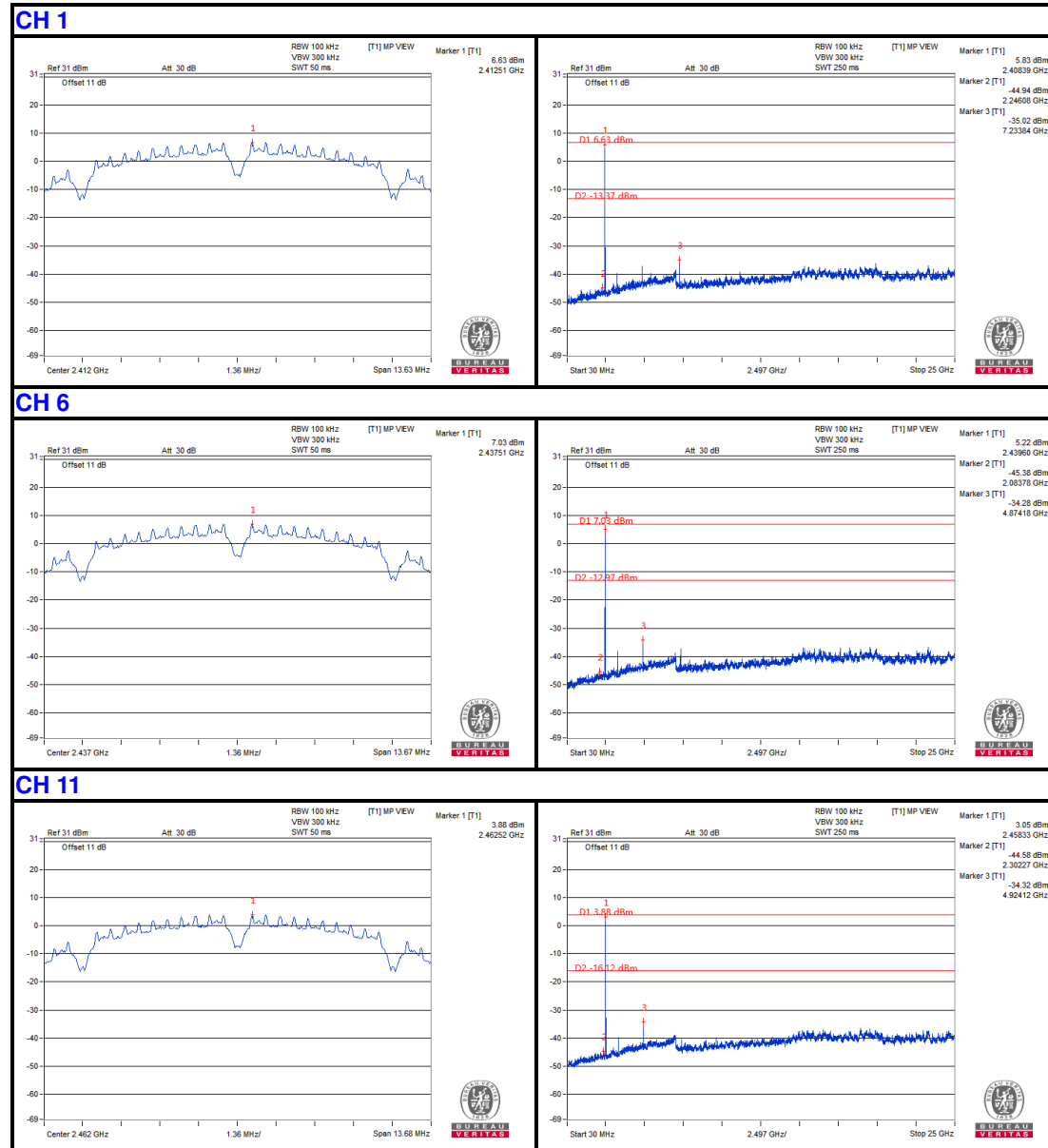


4.6.7 TEST RESULTS

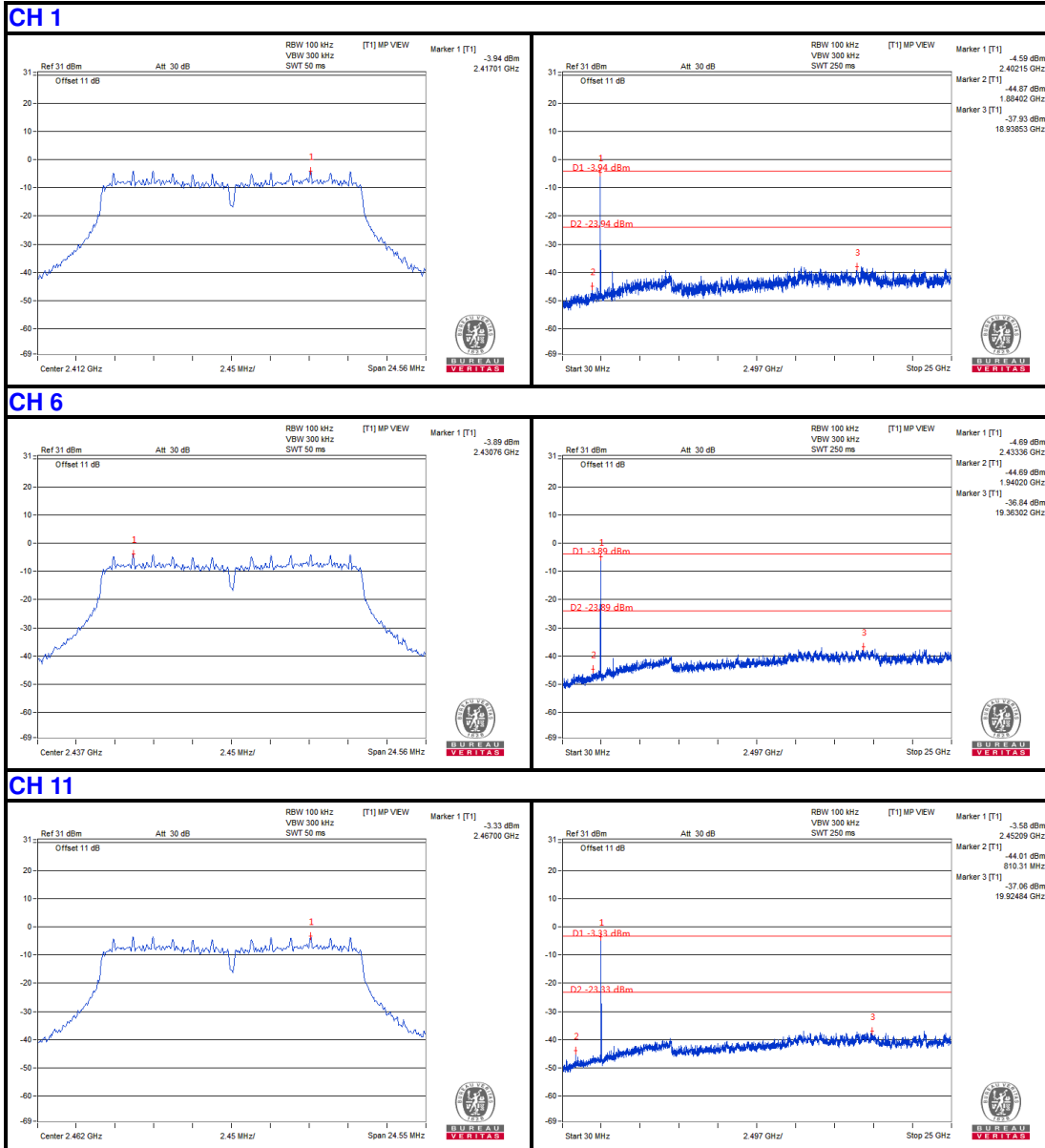
802.11b
Chain 0



Chain 1

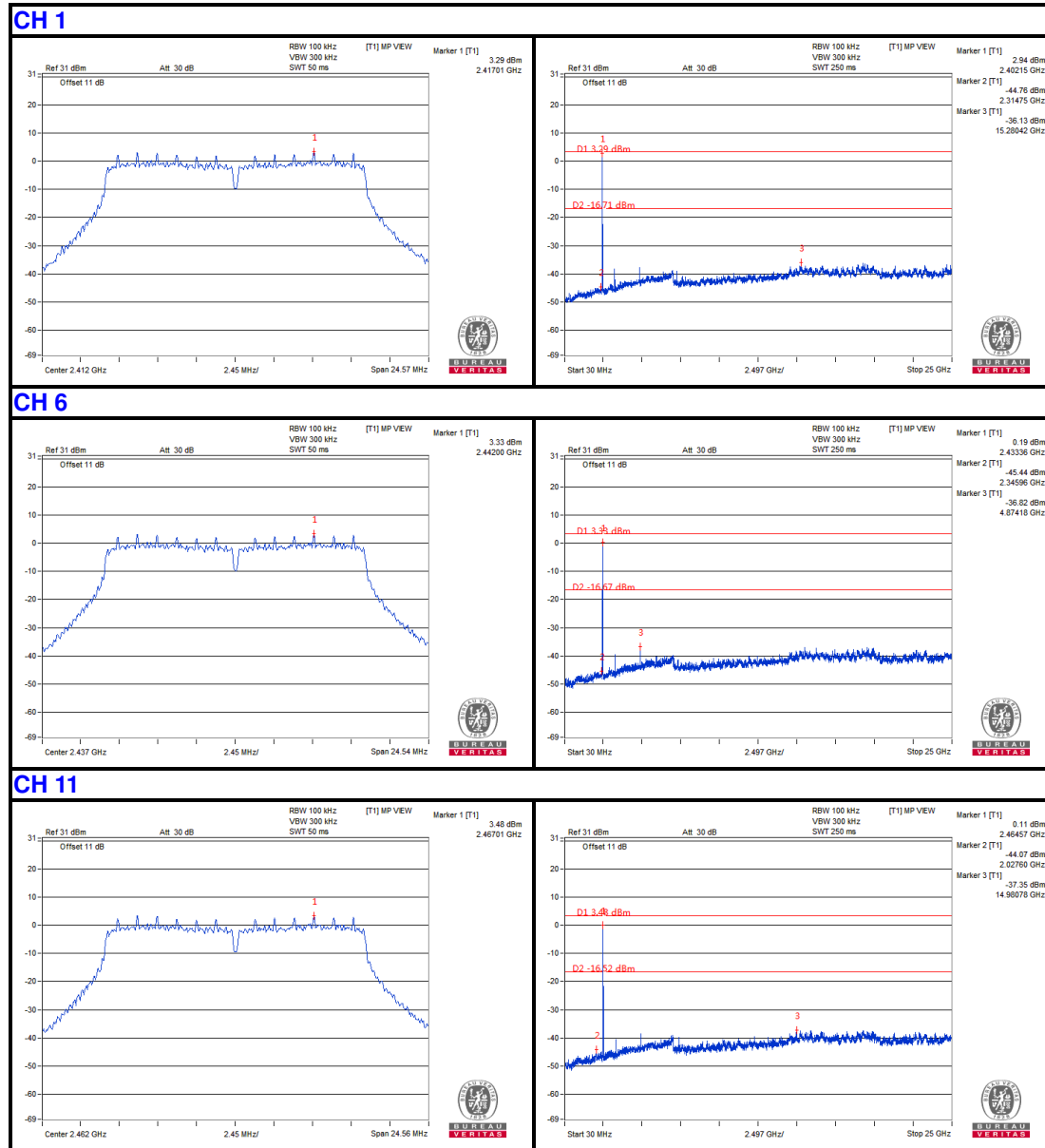


802.11g
Chain 0



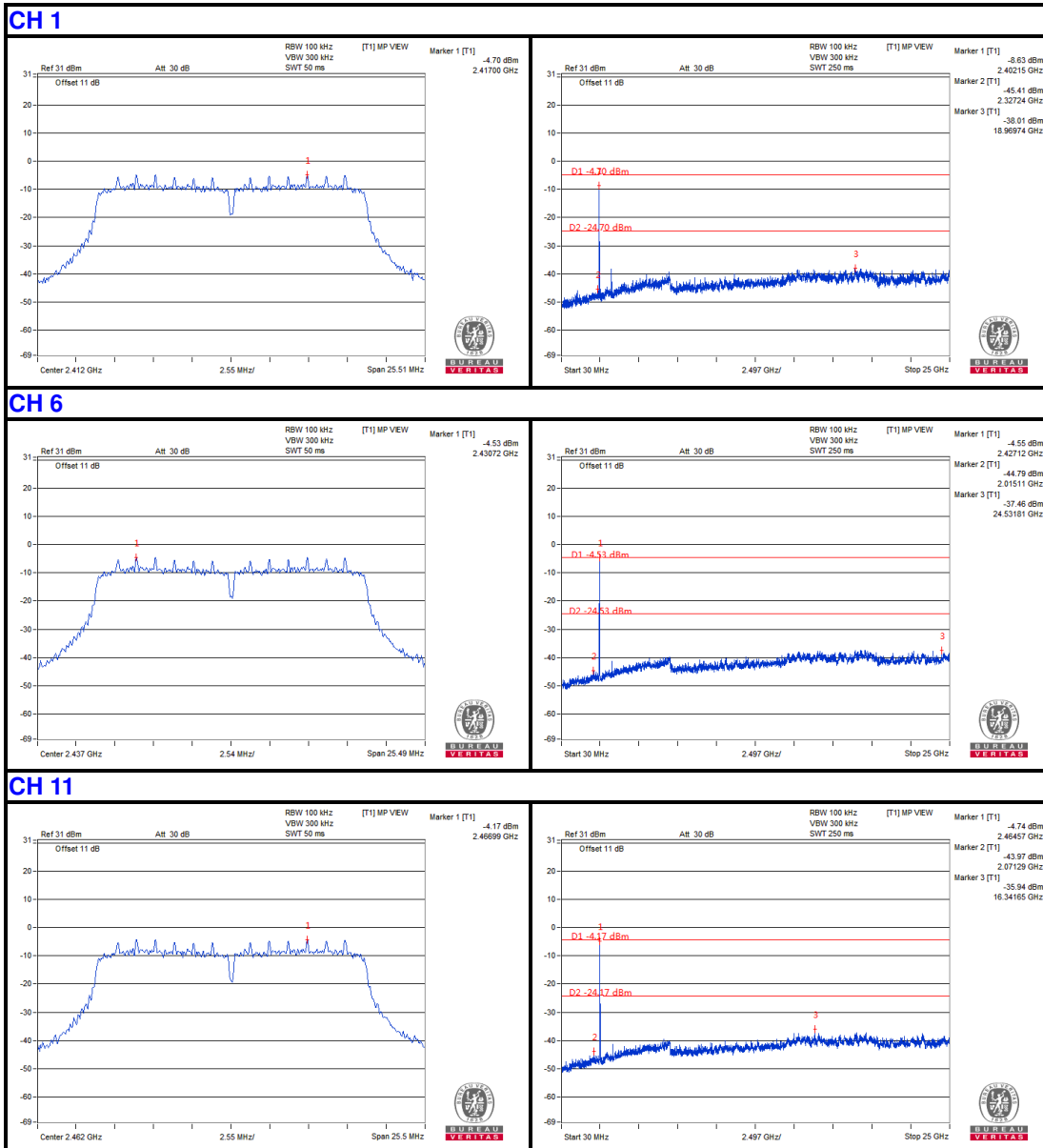


Chain 1



802.11n HT20

Chain 0

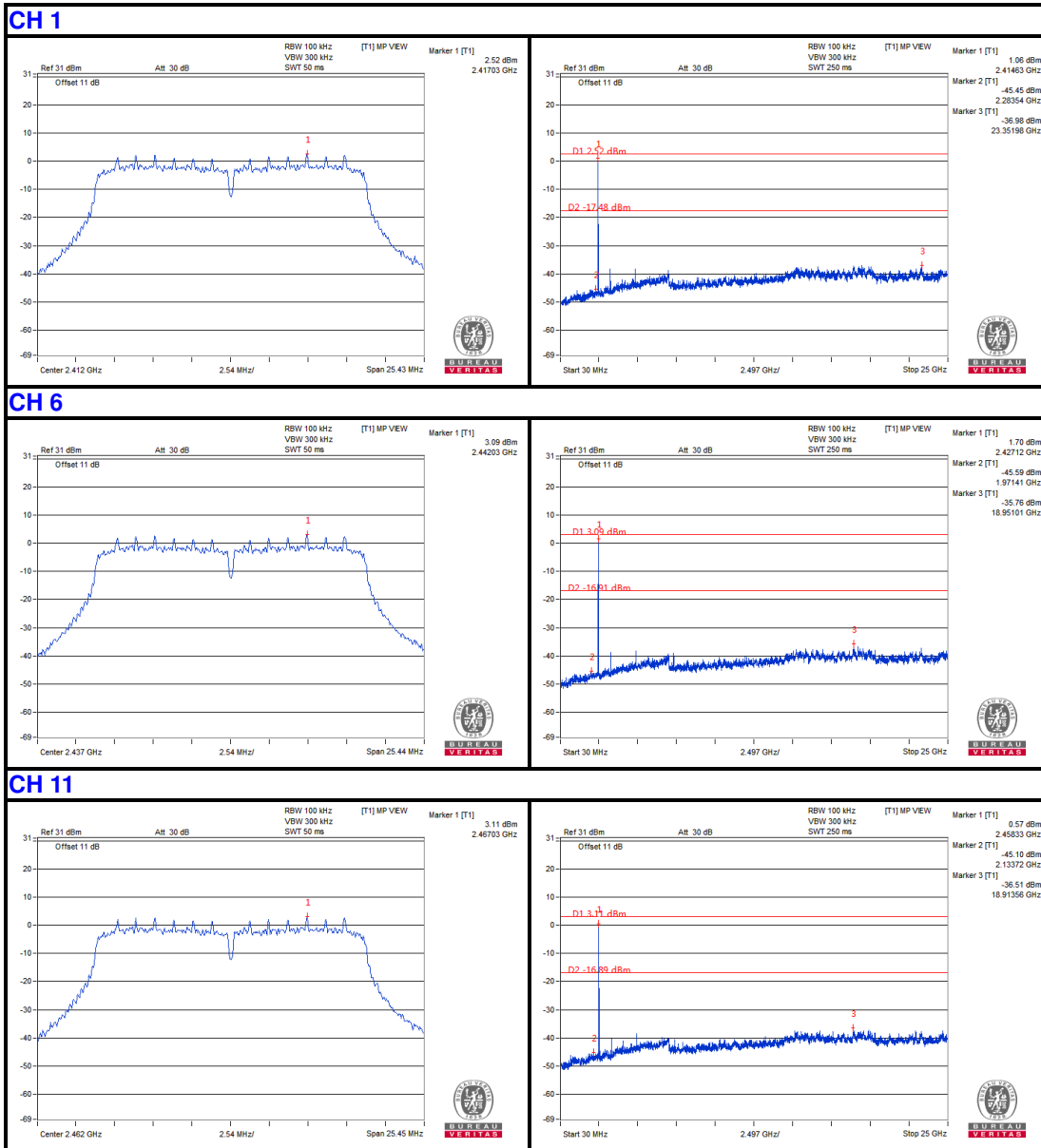




BUREAU VERITAS

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Chain 1



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523942. People's Republic of China.

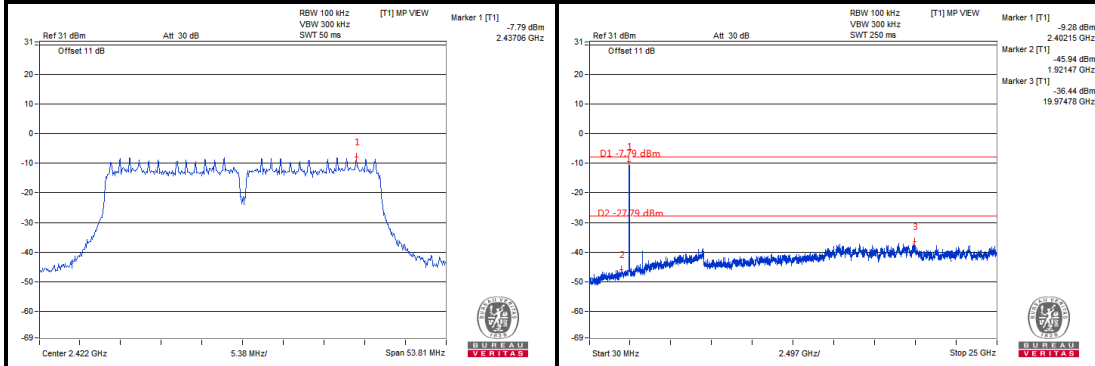
Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@bureauveritas.com



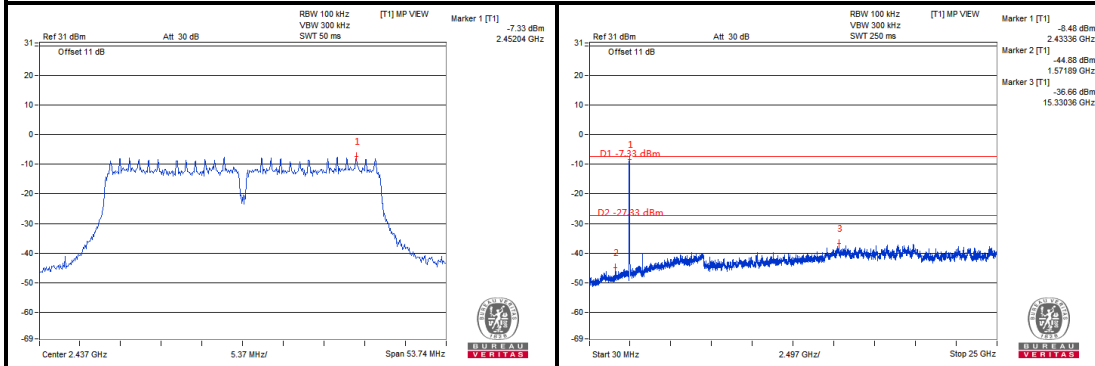
802.11n HT40

Chain 0

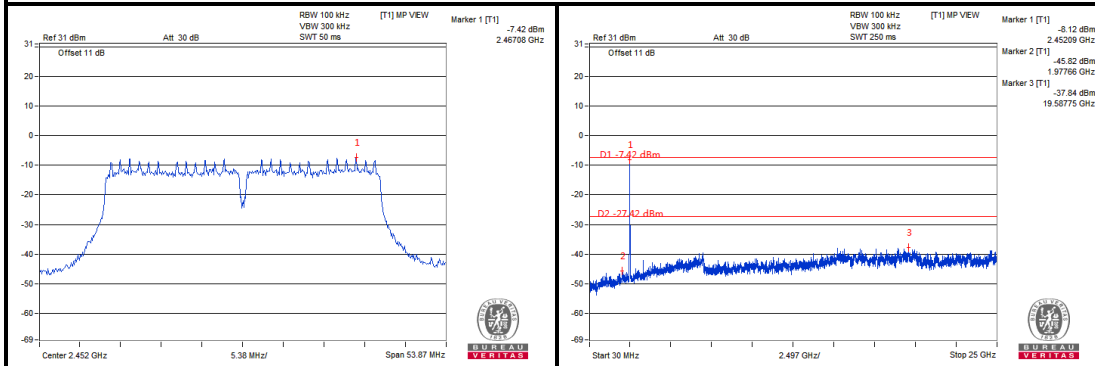
CH 3



CH 6



CH 9

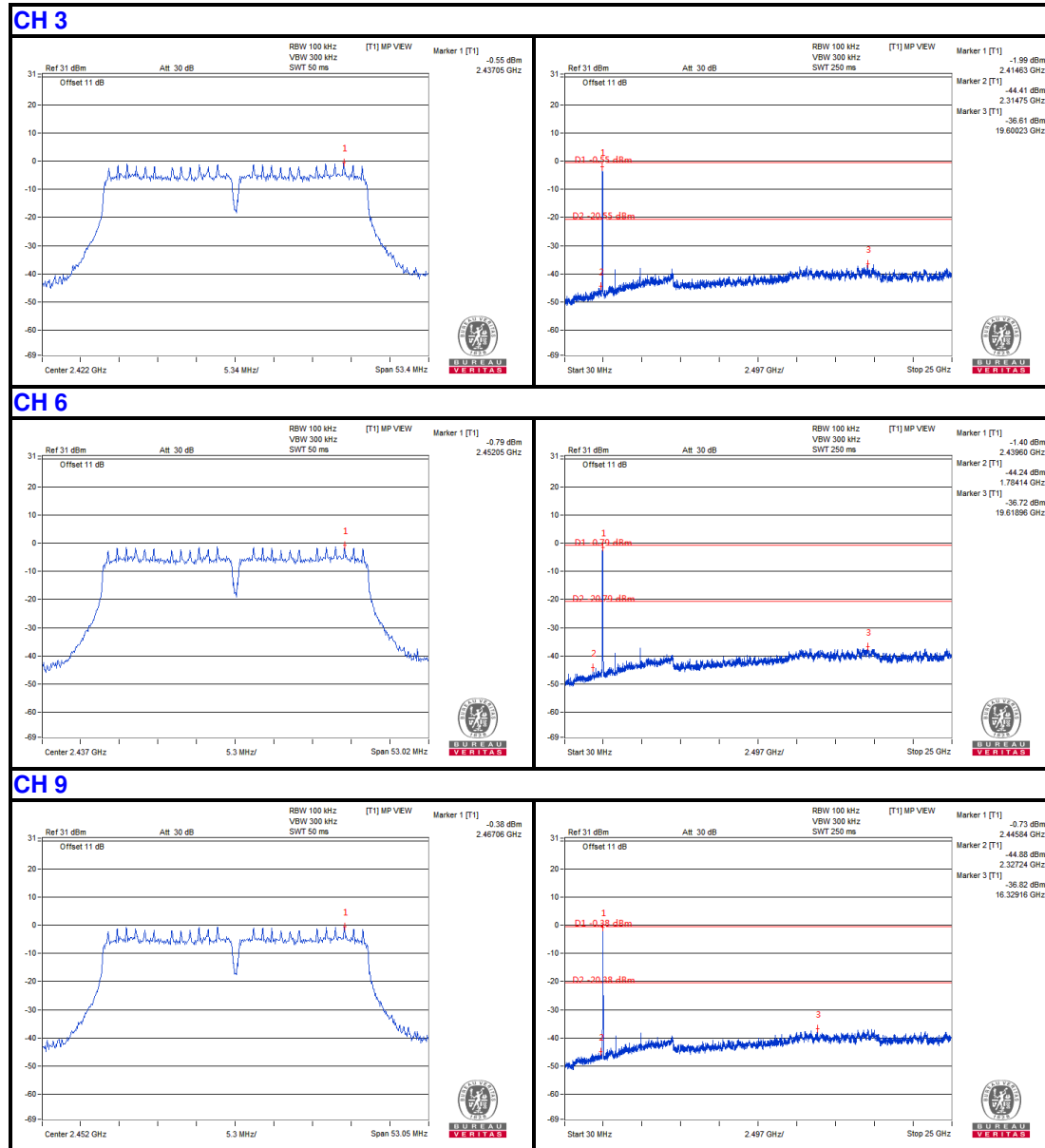




BUREAU VERITAS

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Chain 1



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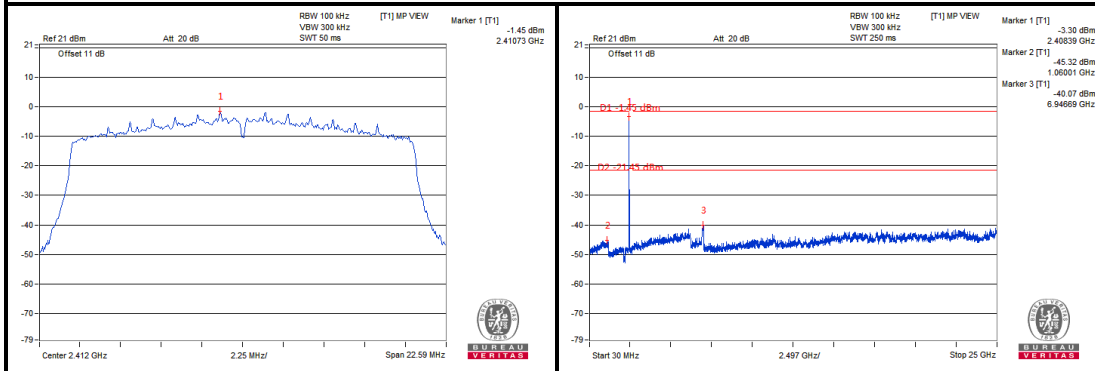
No. 96, Guantai Road (Houjie Section), Houjie
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Tel: +86 769 8998 2098
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Email: customerservice.dg@bureauveritas.com

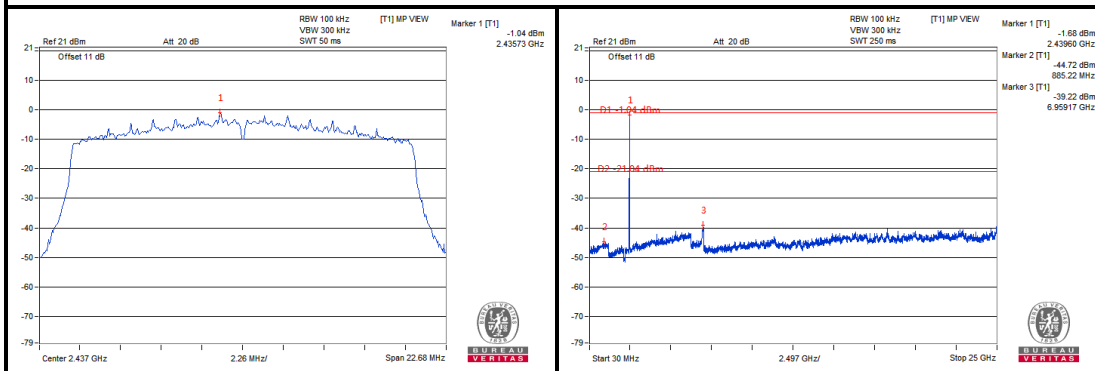
802.11ax HE20

Chain 0

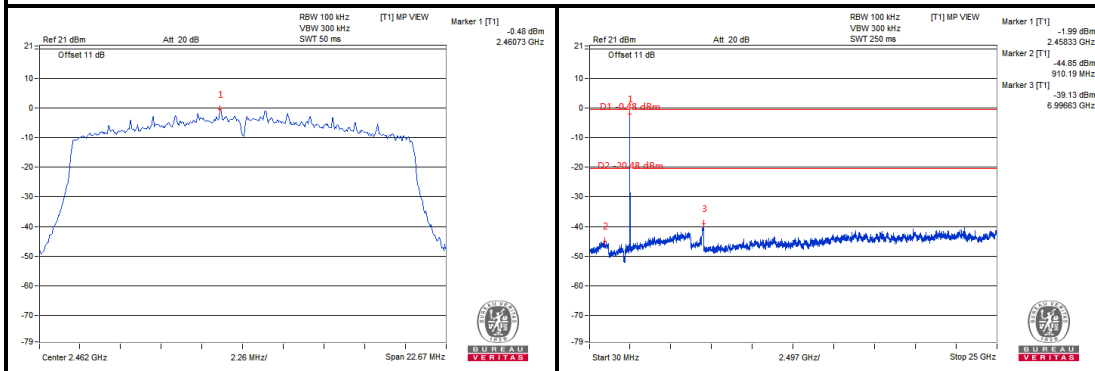
CH 1



CH 6

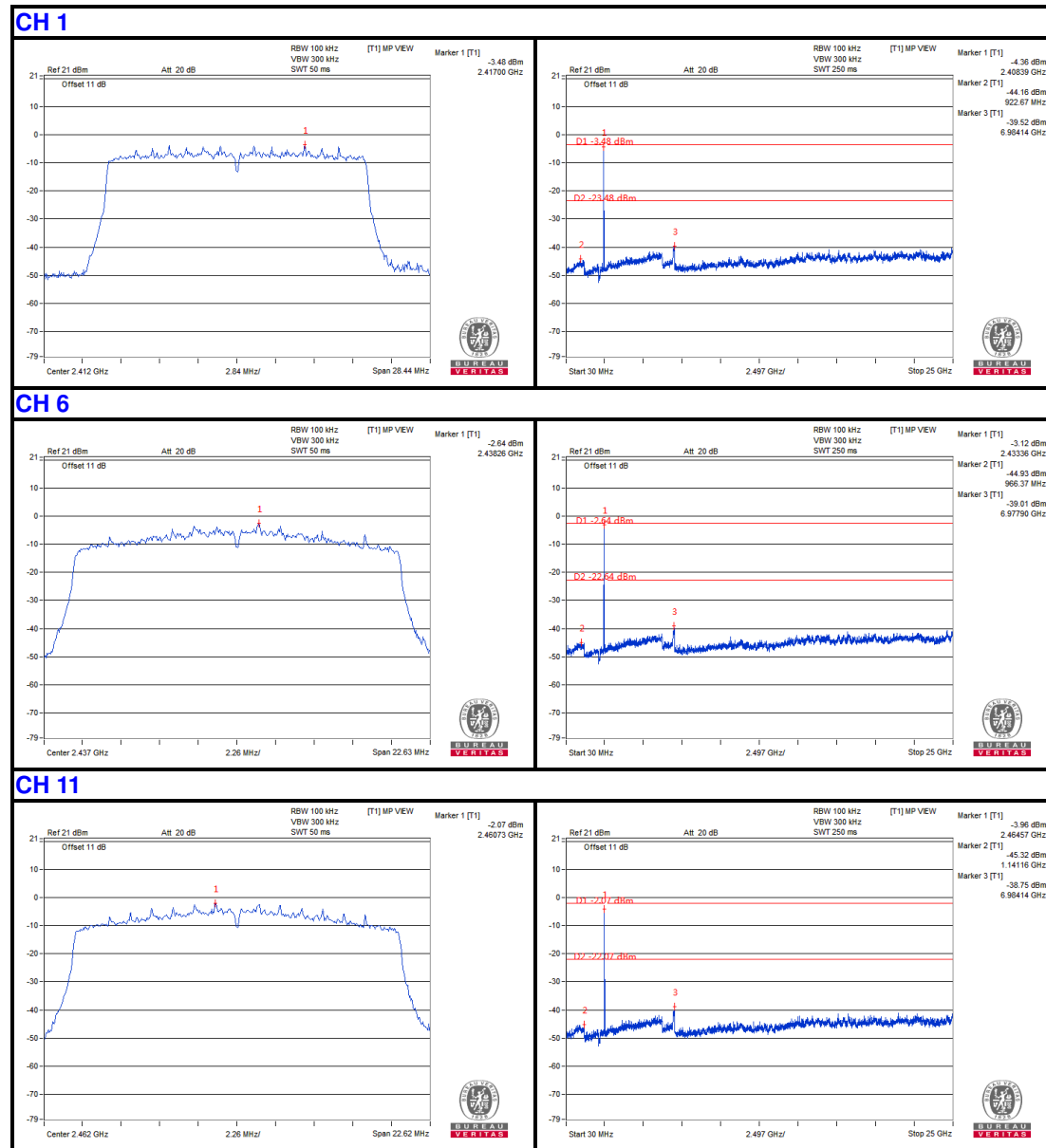


CH 11





Chain 1

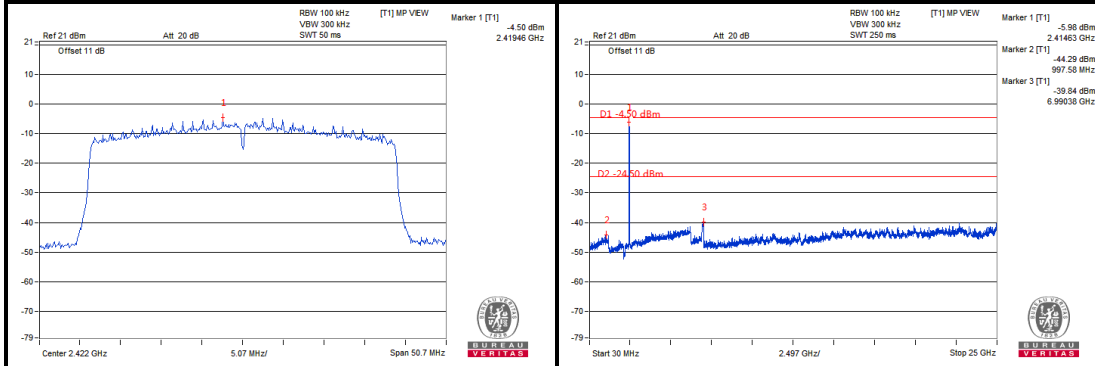




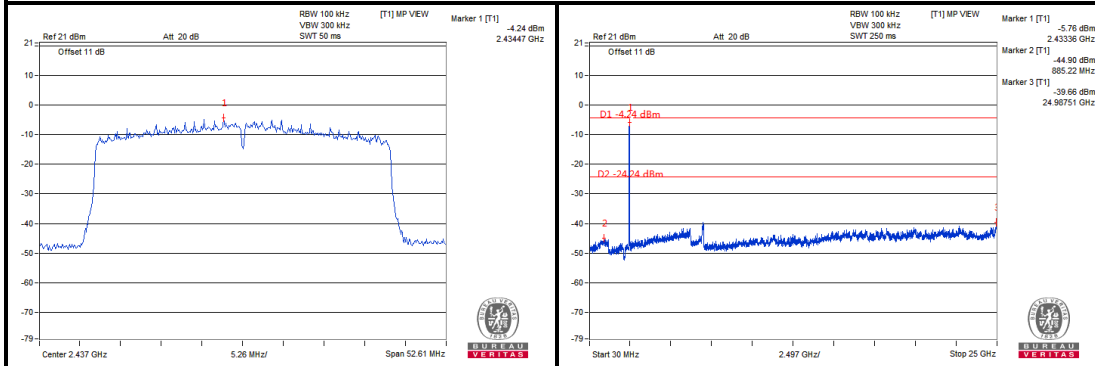
802.11ax HE40

Chain 0

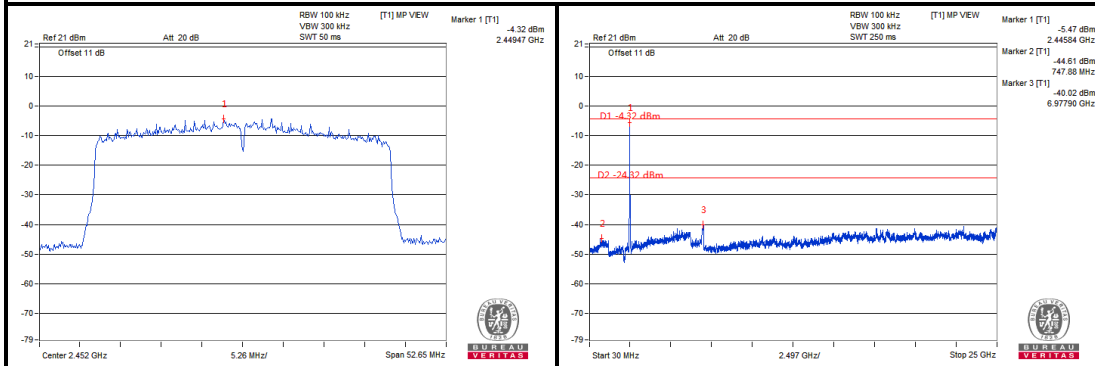
CH 3



CH 6



CH 9

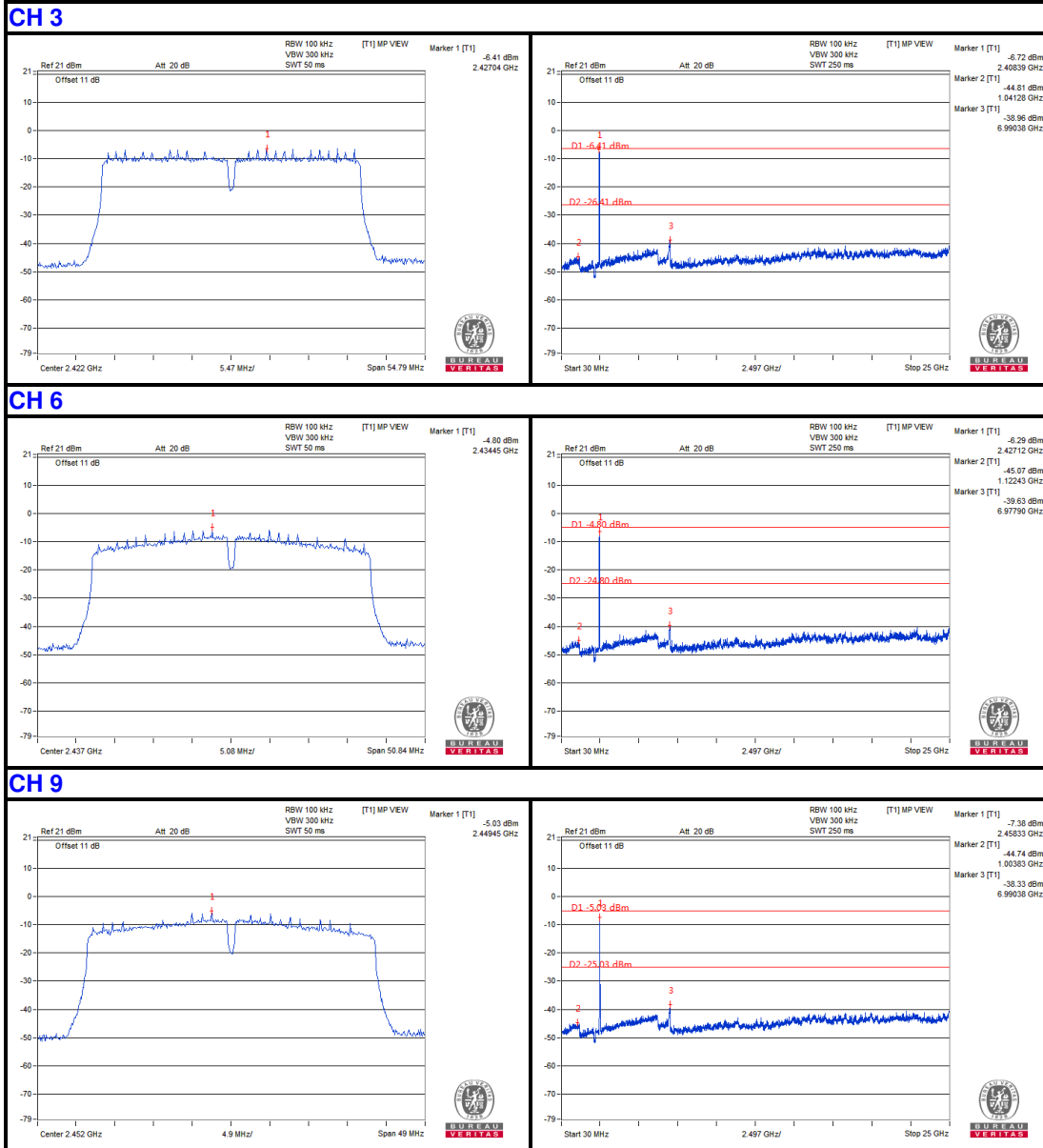




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Chain 1



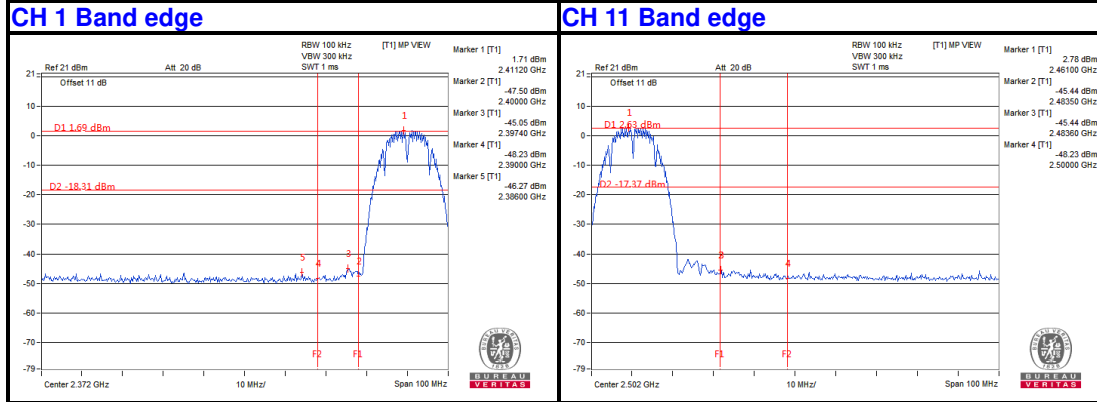
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523942, People's Republic of China.

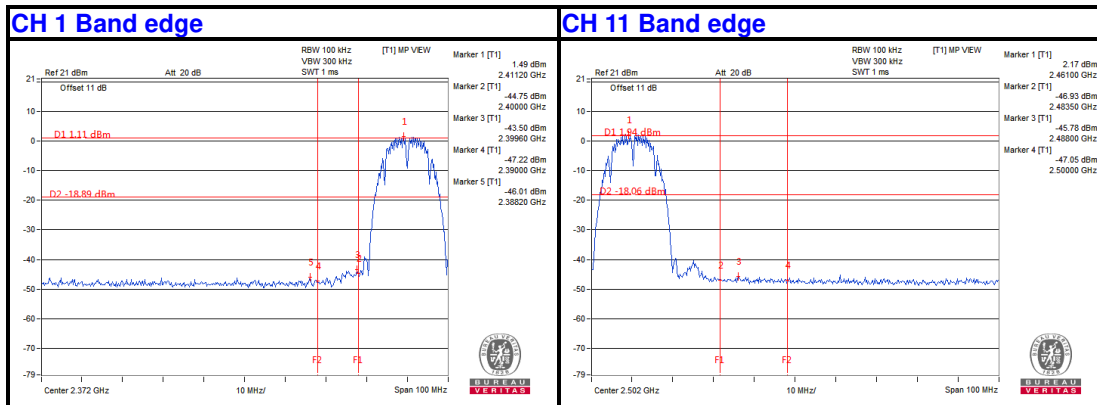
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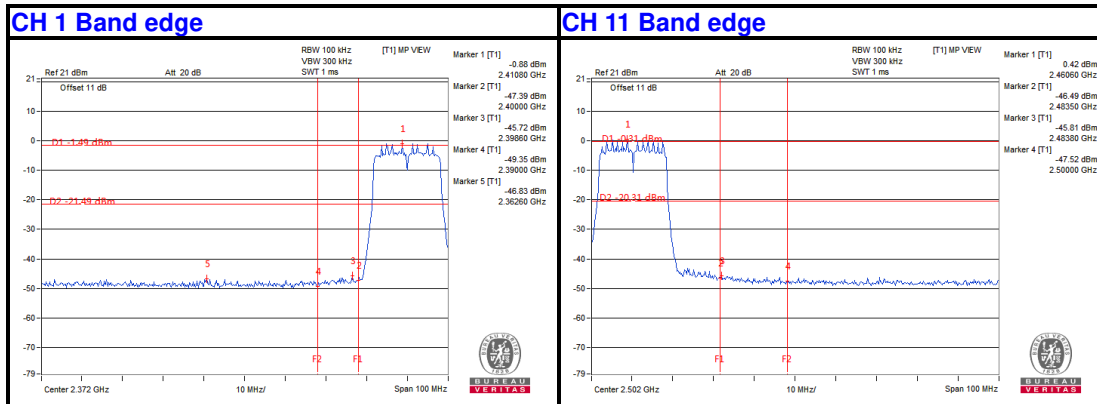
802.11b
Chain 0



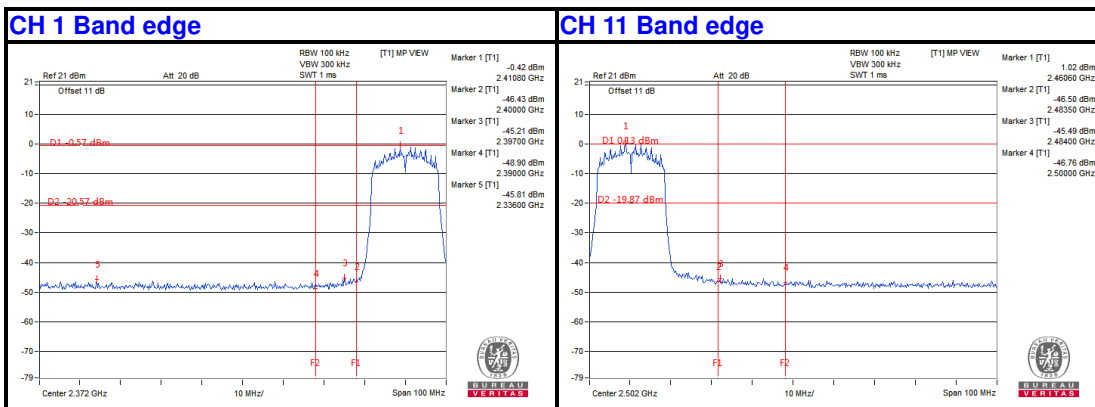
Chain 1



802.11g
Chain 0

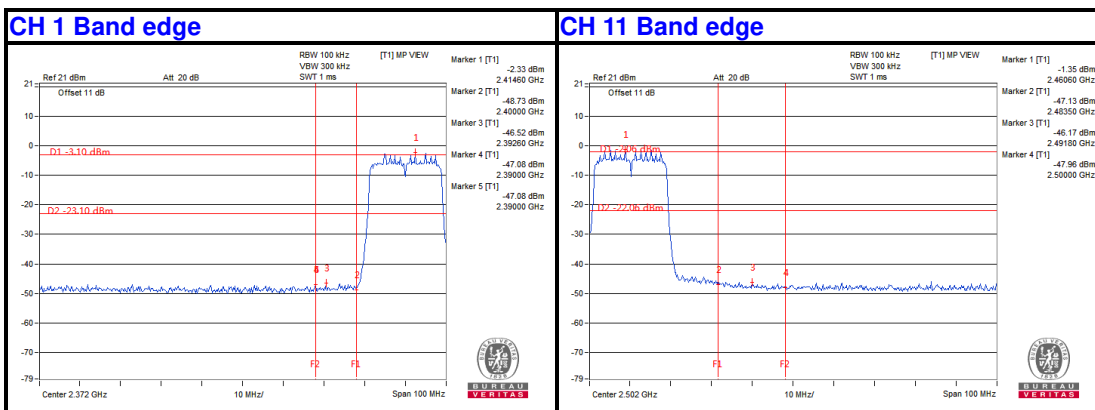


Chain 1

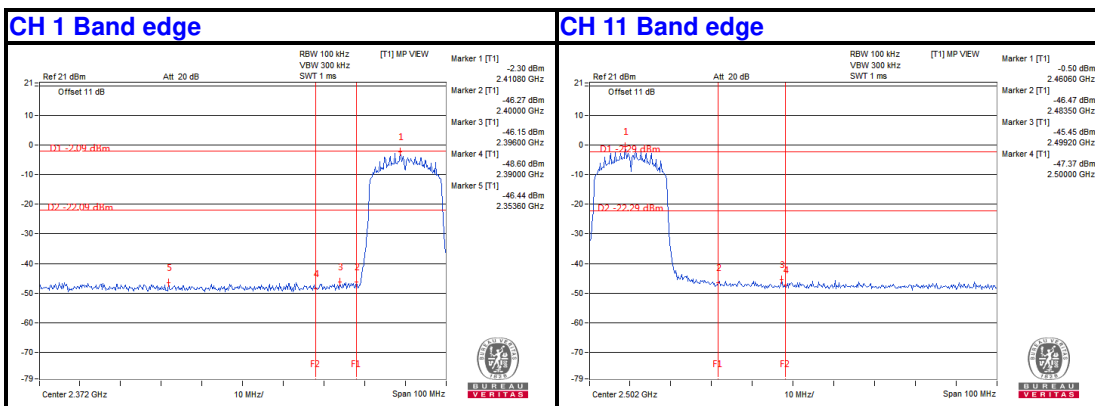


802.11n HT20

Chain 0



Chain 1



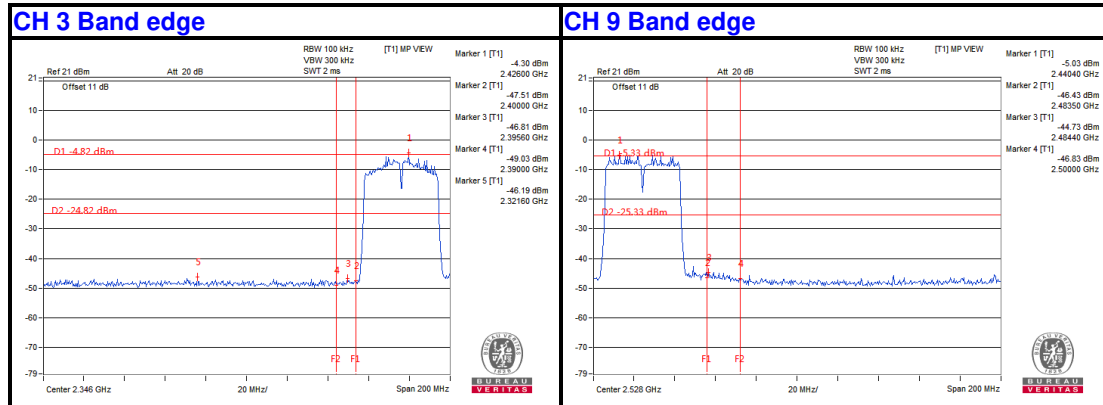


BUREAU VERITAS

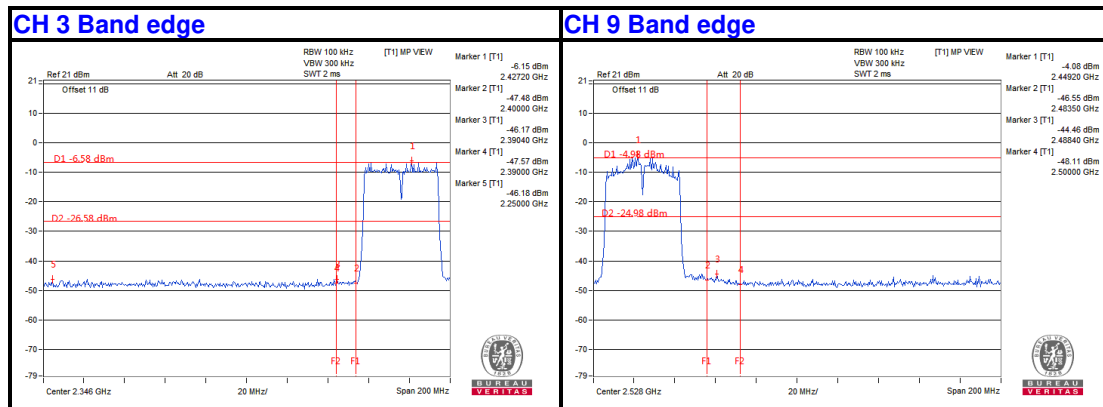
Test Report No.: RF2206WDG0112-2

802.11n HT40

Chain 0



Chain 1



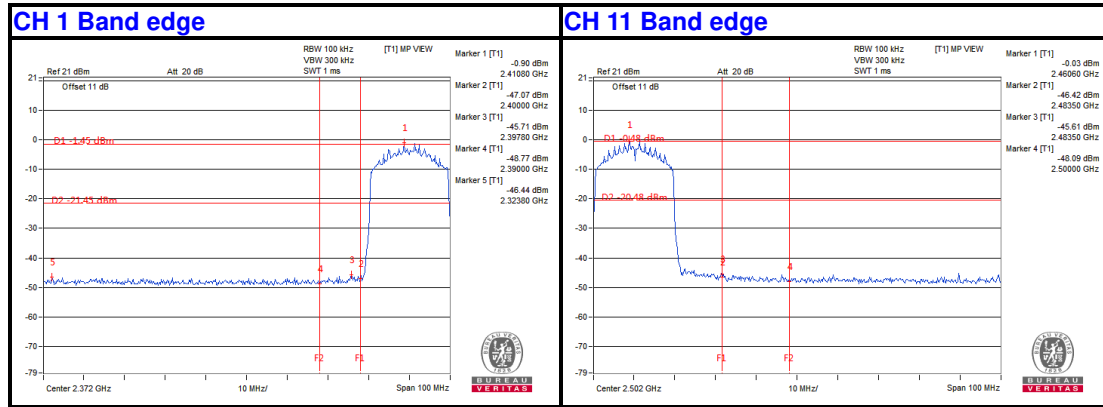
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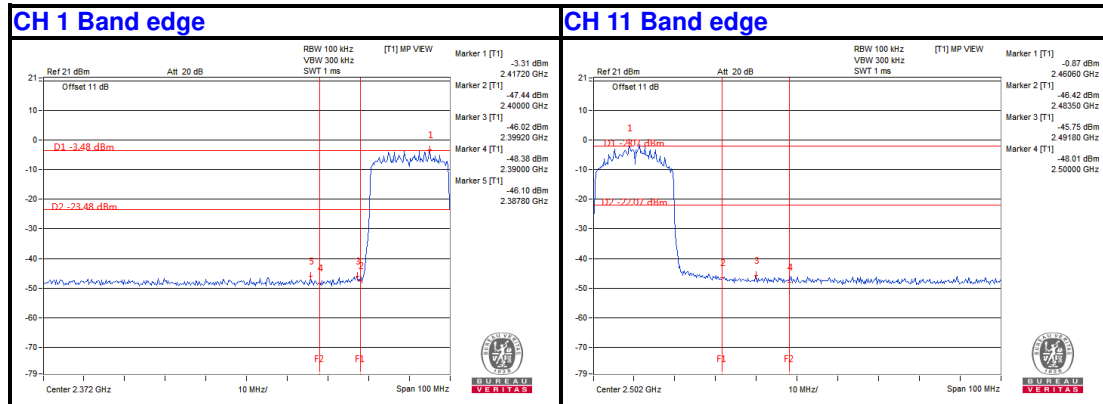
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802.11ax HE20

Chain 0

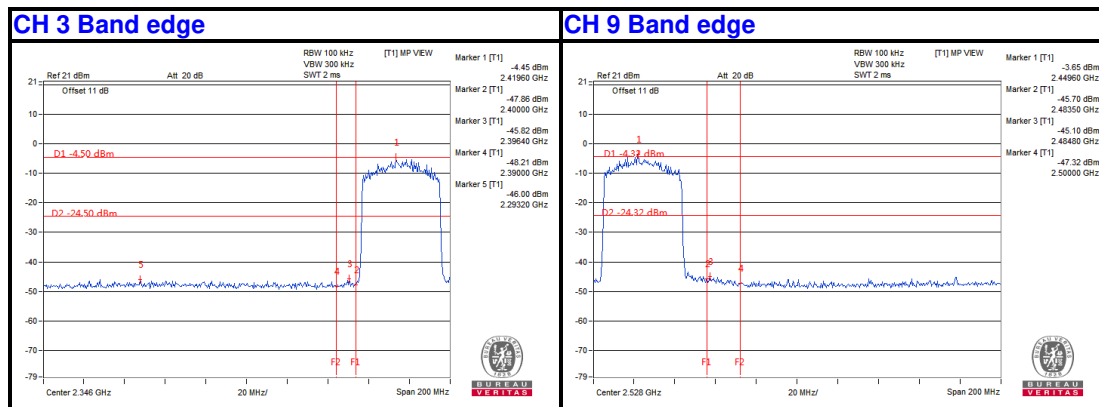


Chain 1

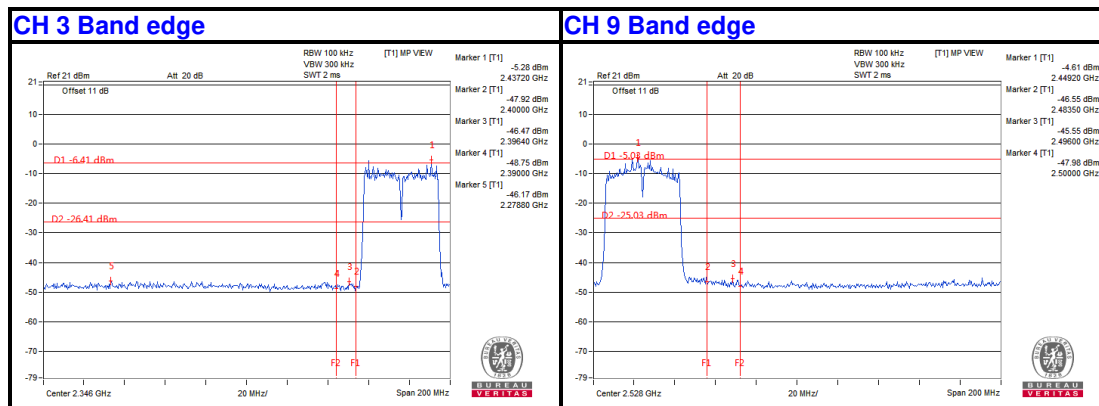


802.11ax HE40

Chain 0



Chain 1





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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---