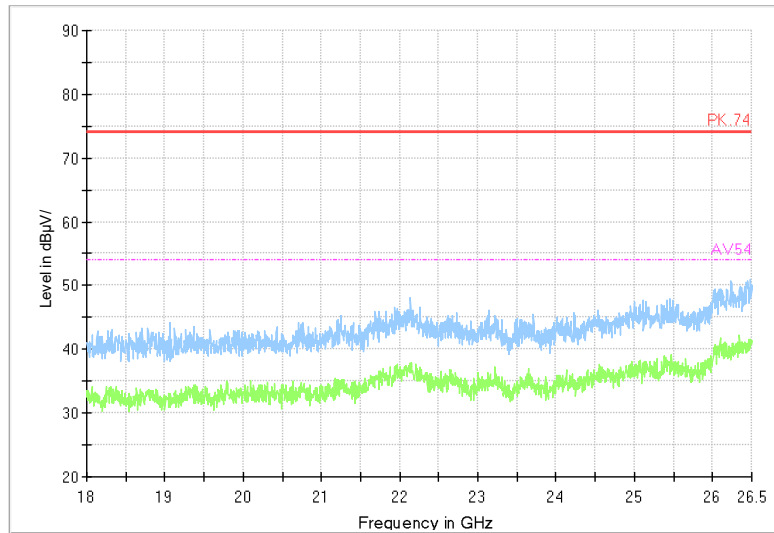




BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum



Frequency Range: 18GHz -26GHz

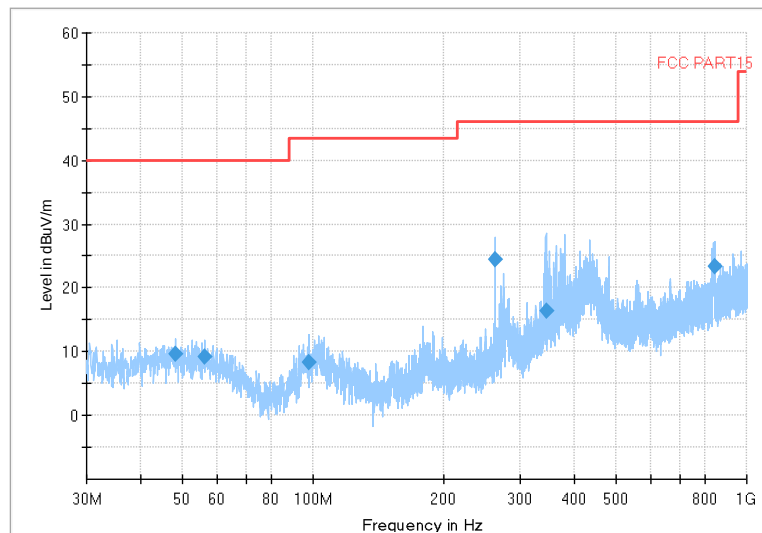
Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)

Carrier frequency (MHz): 2437

Channel No.:6

Full Spectrum



Frequency Range: 30MHz -1GHz

Detector: Av mode and PK mode

BV 7Layers Communications Technology
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com

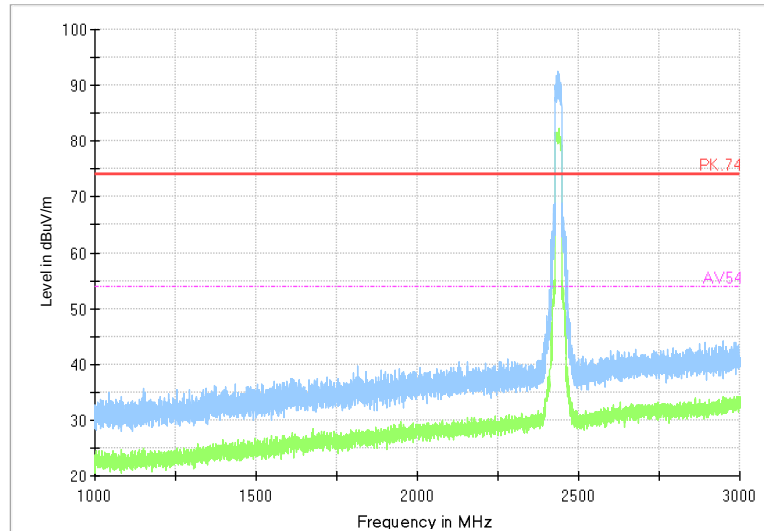


BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Modulation type: 802.11n(HT40)

Full Spectrum

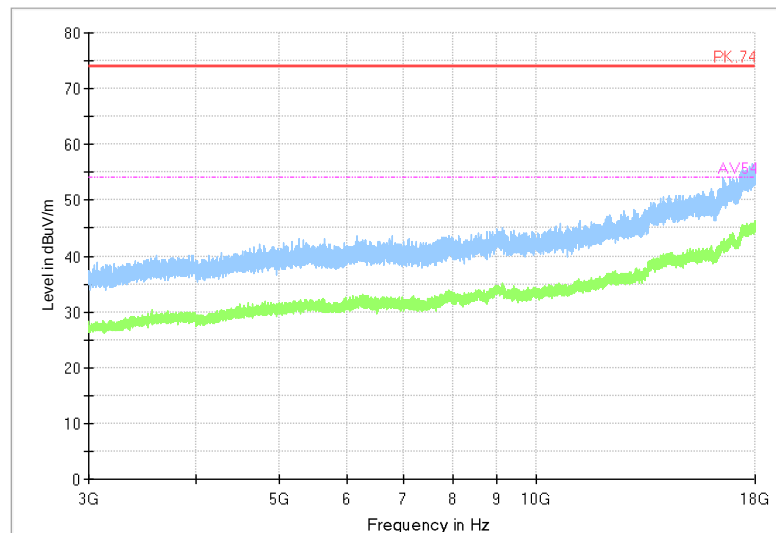


Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

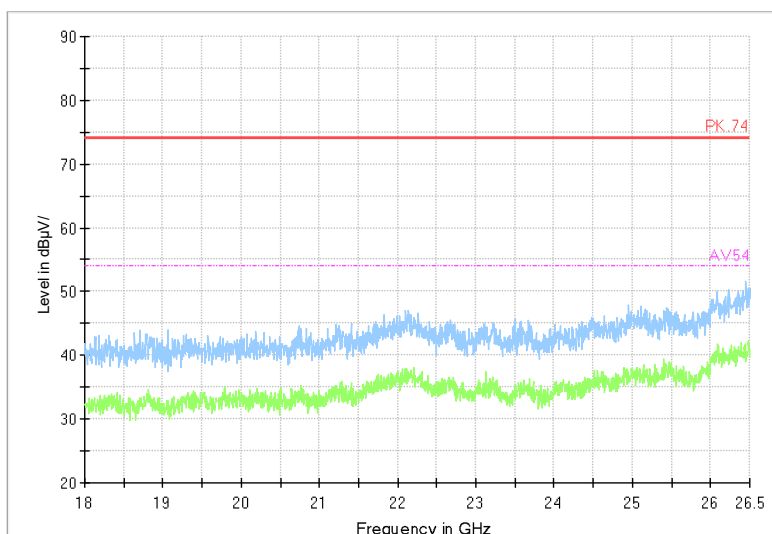
Modulation type: 802.11n(HT40)



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VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

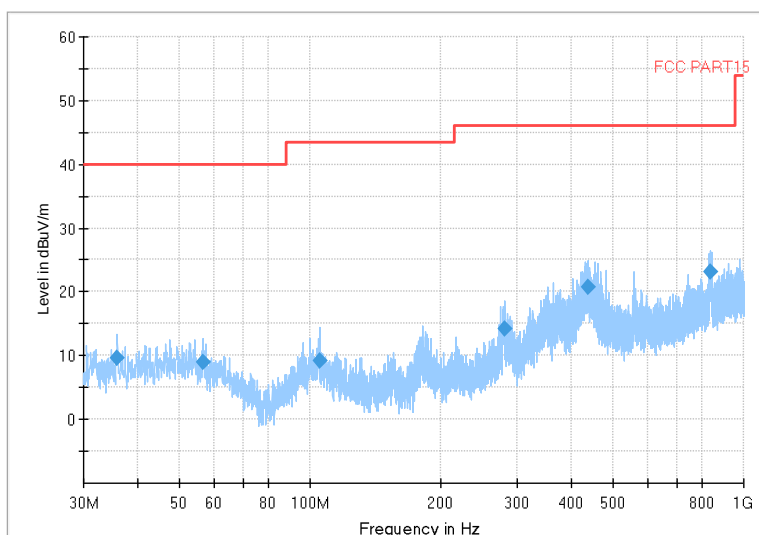


Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 30MHz -1GHz

Detector: Av mode and PK mode

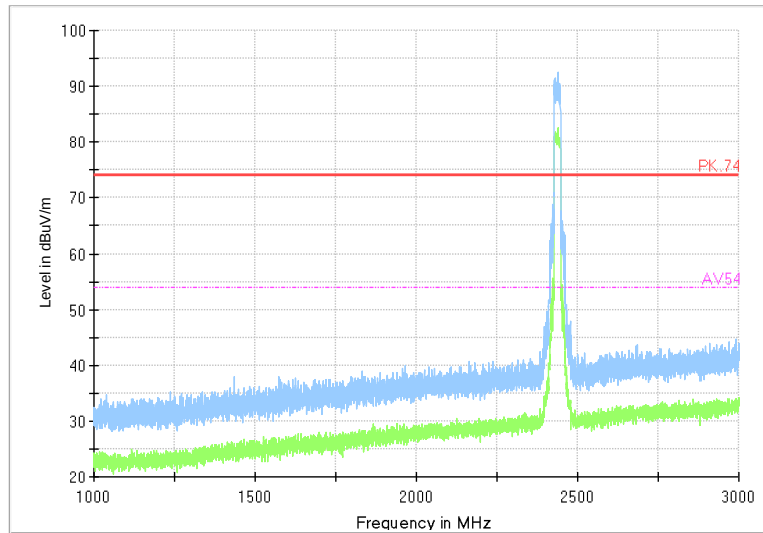
Modulation type: 802.11 ax(HE40)



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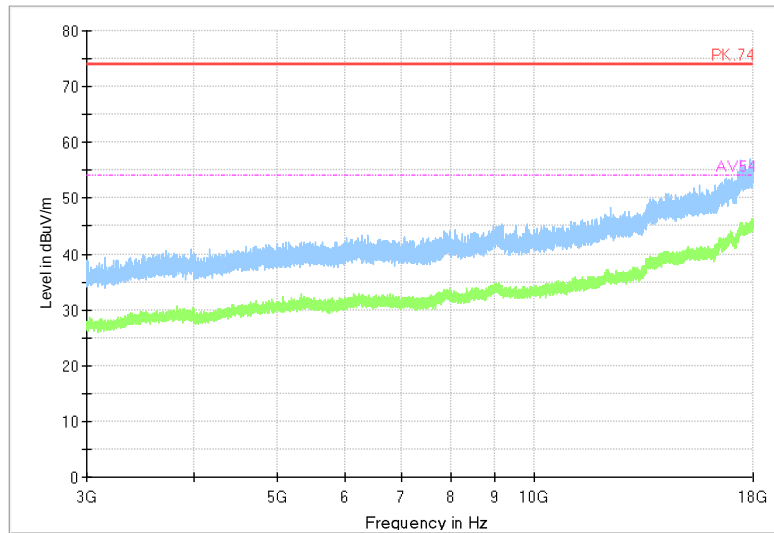
Test Report No.: PSU-NQN2412170209

Full Spectrum



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)

Full Spectrum



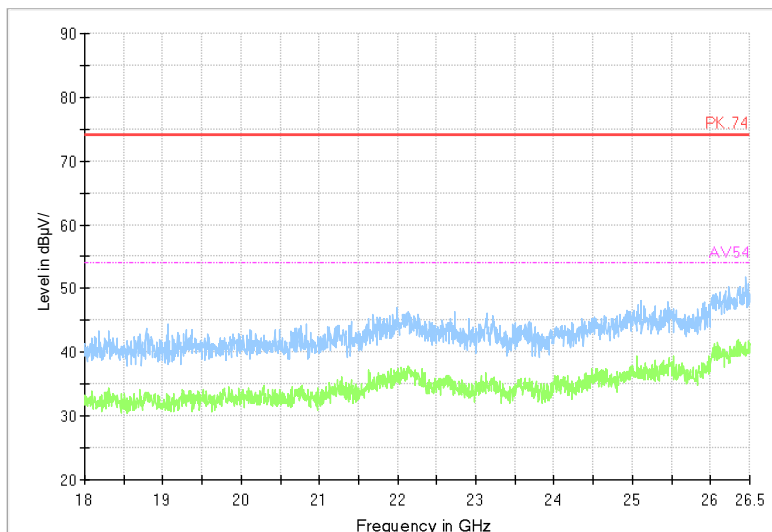
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum



Frequency Range: 18GHz -26GHz

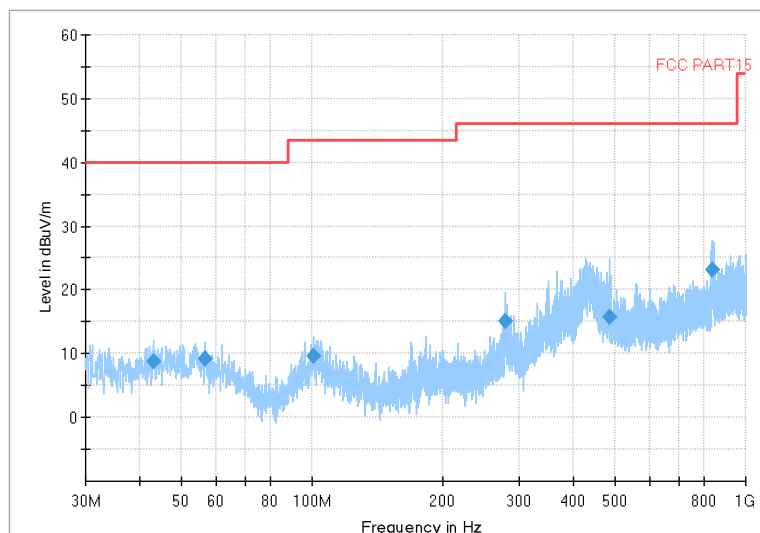
Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)

Carrier frequency (MHz): 2452

Channel No.:9

Full Spectrum



Frequency Range: 30MHz -1GHz

Detector: Av mode and PK mode

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Guangdong, People's Republic of China

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Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com

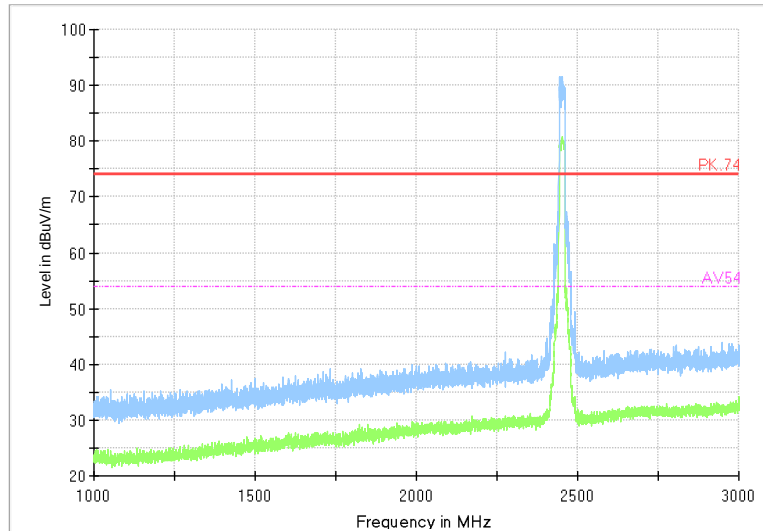


BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Modulation type: 802.11n(HT40)

Full Spectrum

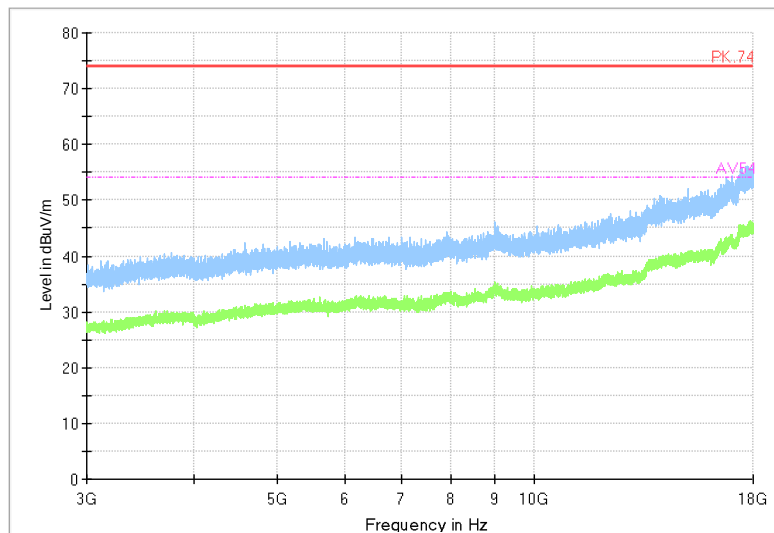


Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

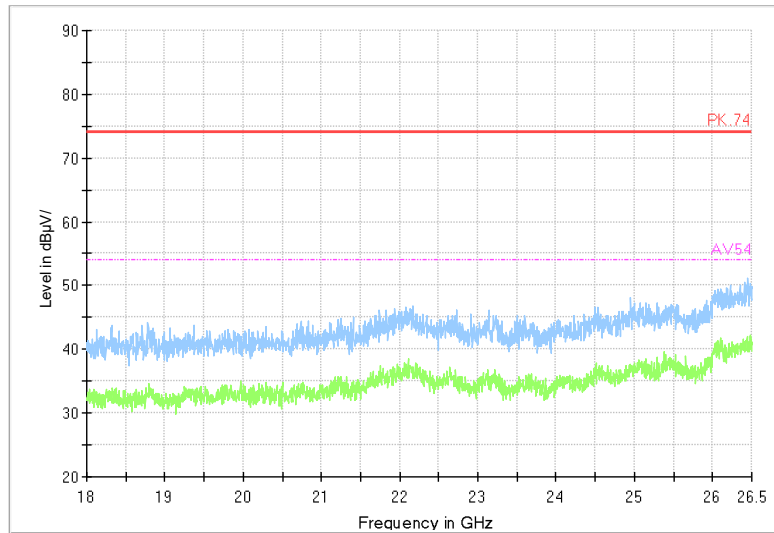
Modulation type: 802.11n(HT40)



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VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

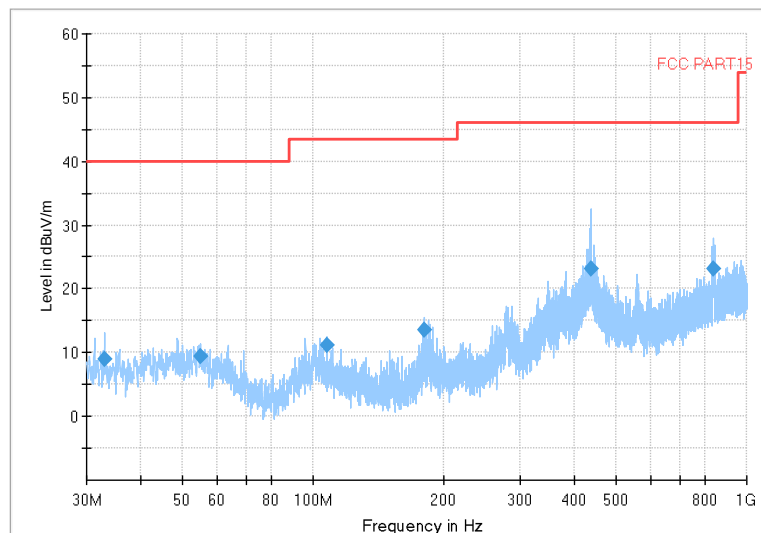


Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 30MHz -1GHz

Detector: Av mode and PK mode

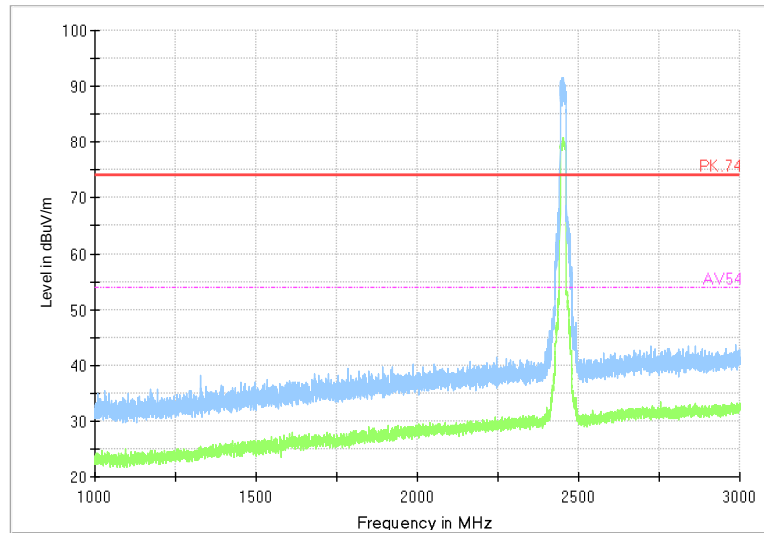
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

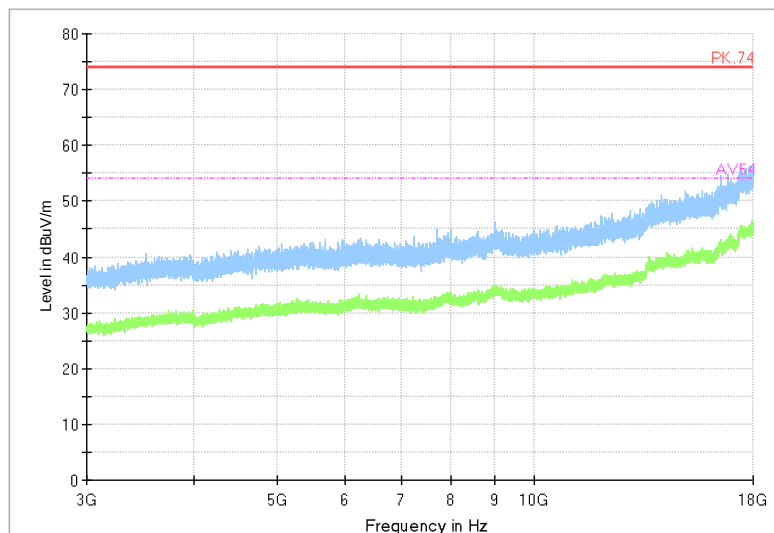
Test Report No.: PSU-NQN2412170209

Full Spectrum



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)

Full Spectrum



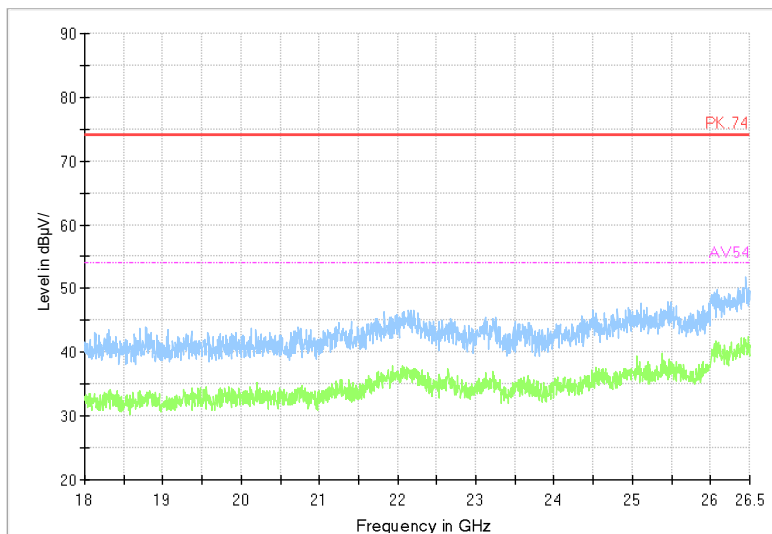
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)



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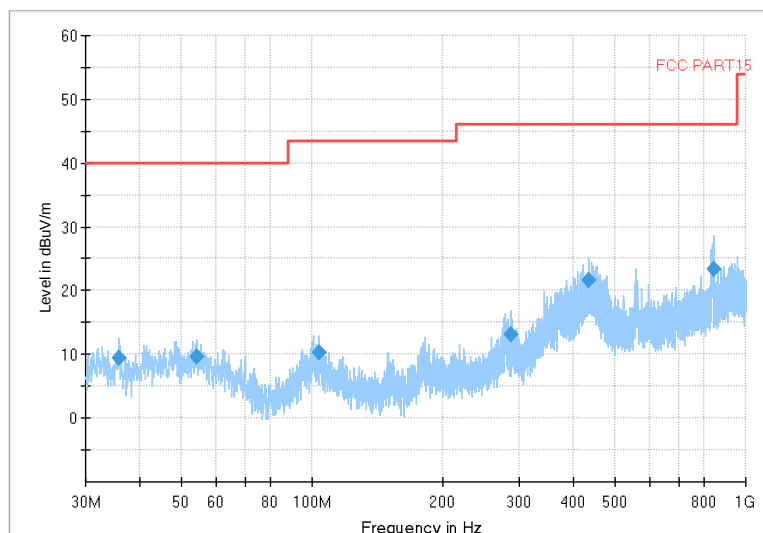
Test Report No.: PSU-NQN2412170209

Partial RU (Tone26)

Carrier frequency (MHz): 2412

Channel No.:1

Full Spectrum

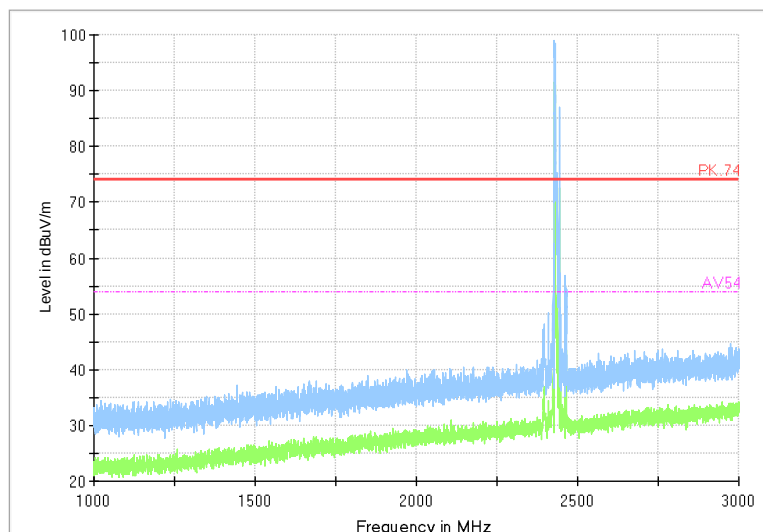


Frequency Range: 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

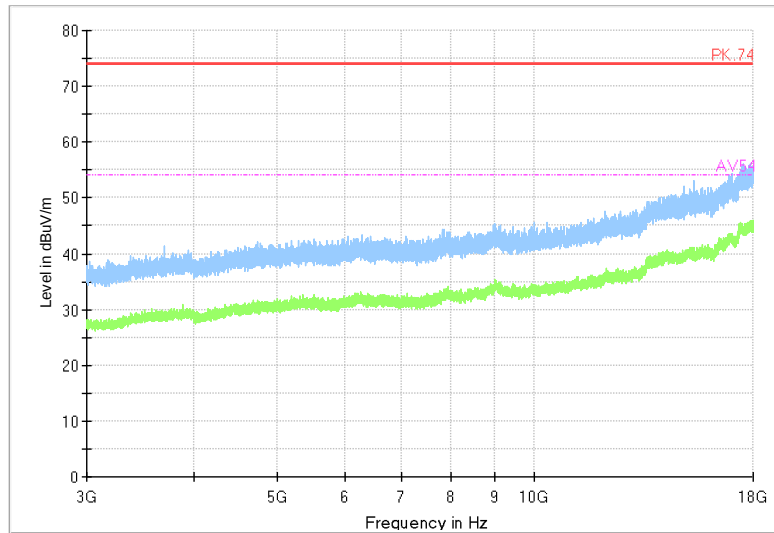
Modulation type: 802.11 ax(HE20)



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VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

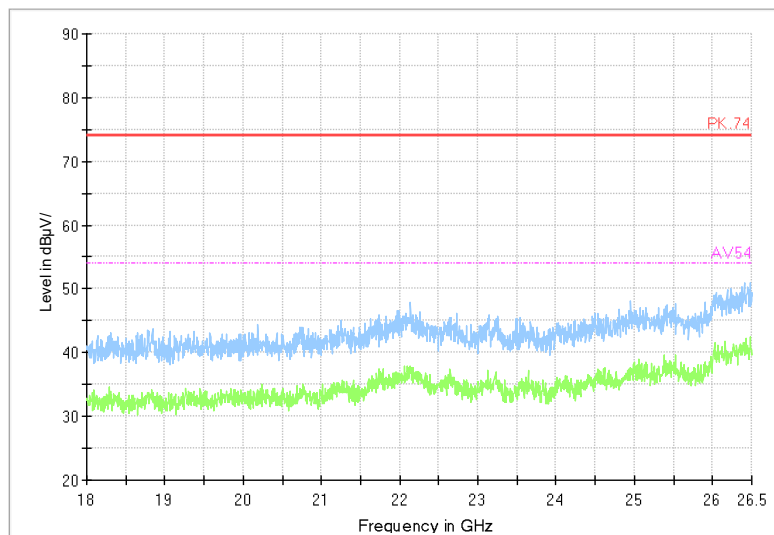


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)



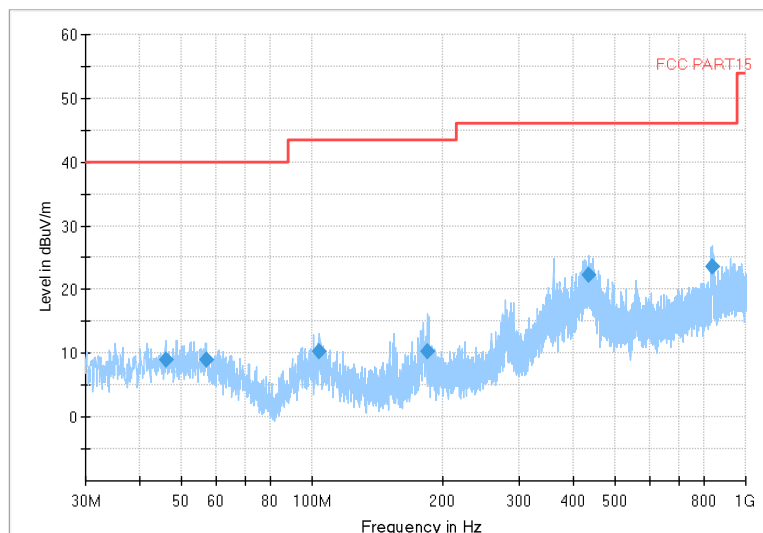
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Test Report No.: PSU-NQN2412170209

Carrier frequency (MHz): 2437

Channel No.:6

Full Spectrum

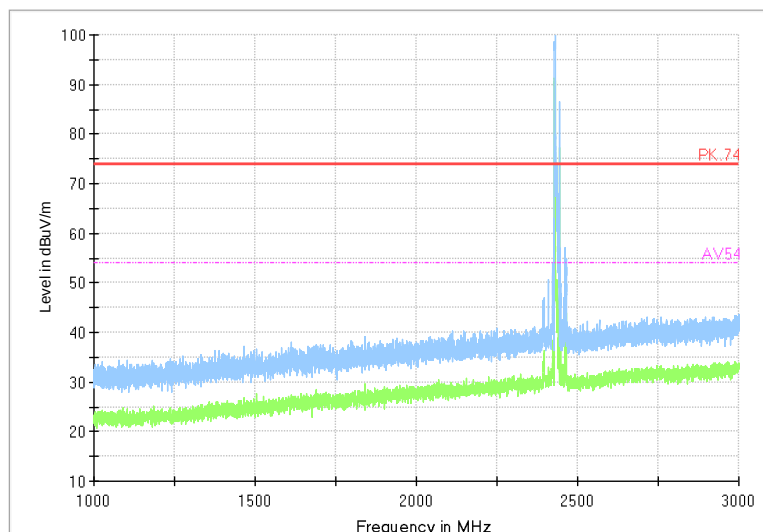


Frequency Range: 30MHz -1GHz

Detector: Detector: QP mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

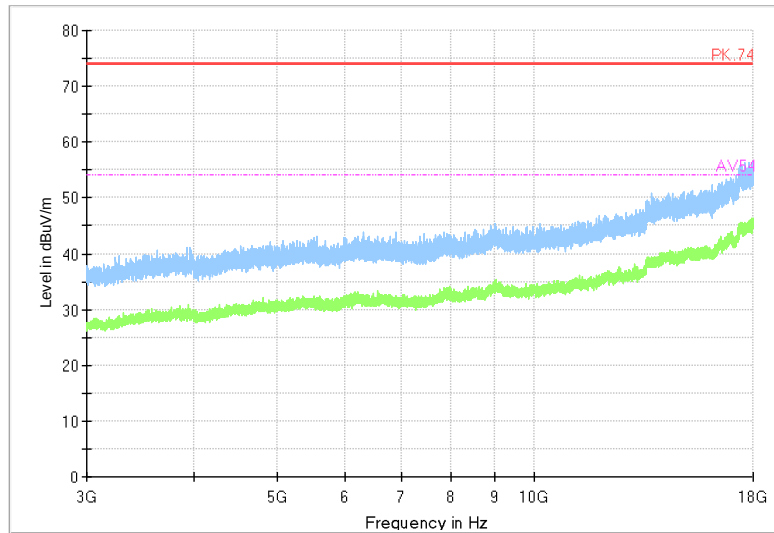
Modulation type: 802.11 ax(HE20)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

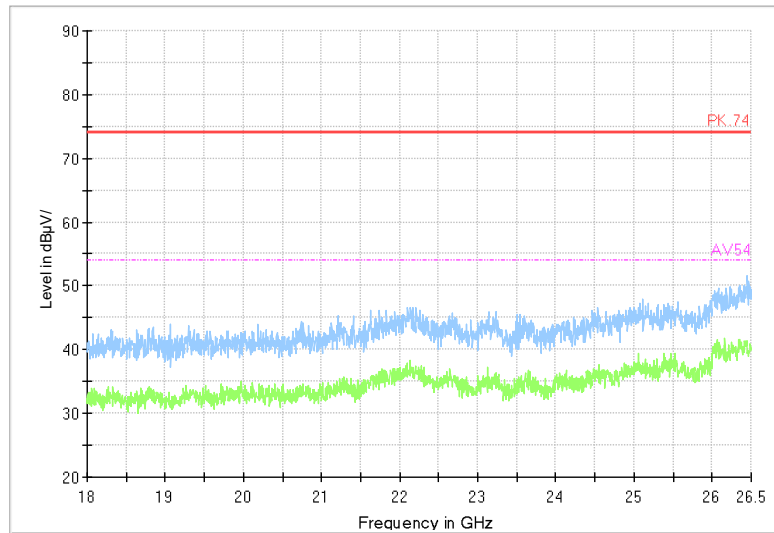


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)



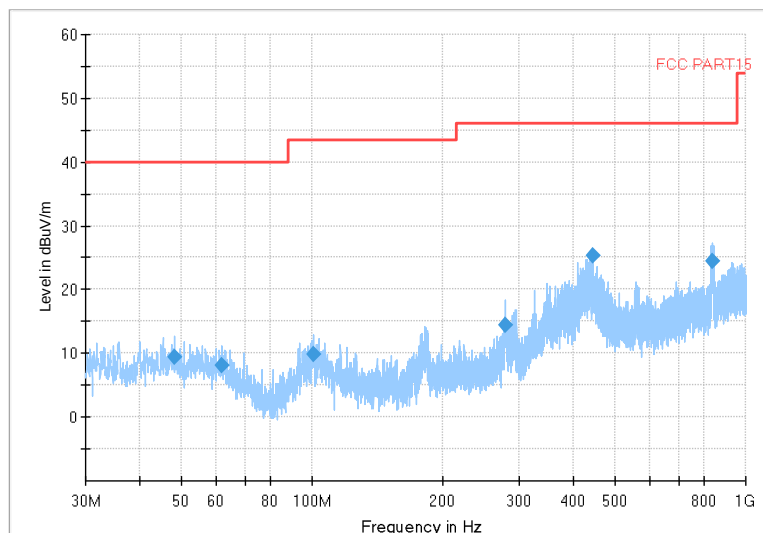
BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Carrier frequency (MHz): 2462

Channel No.:11

Full Spectrum

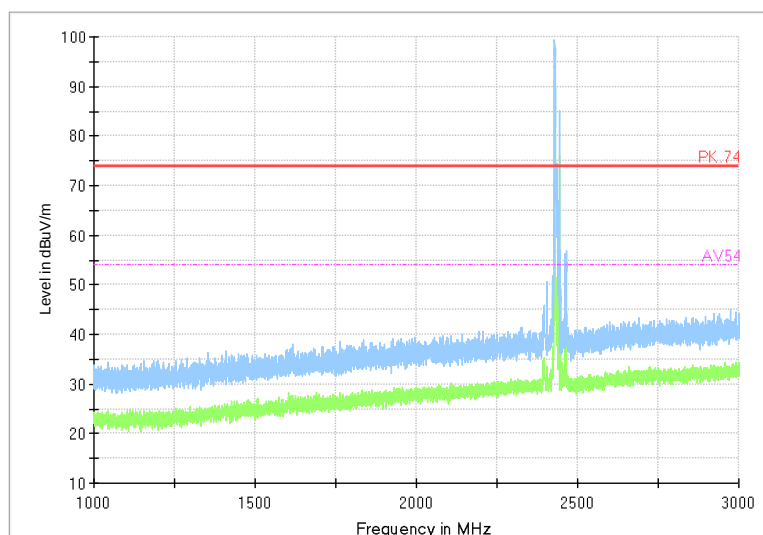


Frequency Range: 30MHz -1GHz

Detector: Detector: QP mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

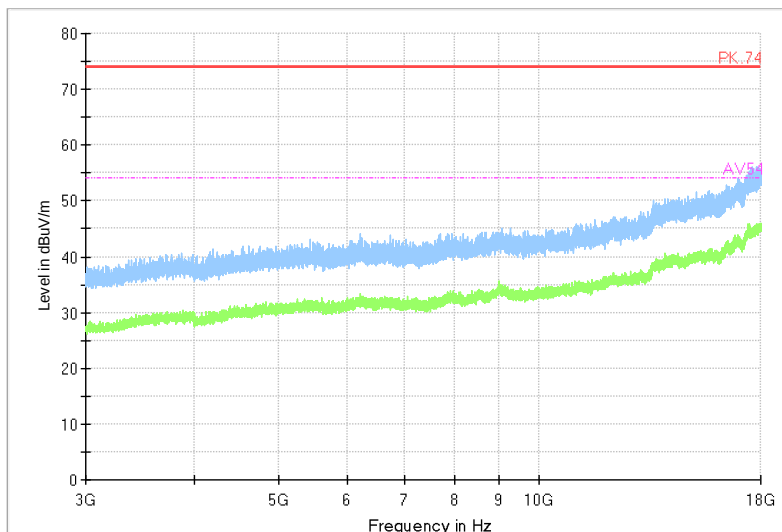
Modulation type: 802.11 ax(HE20)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

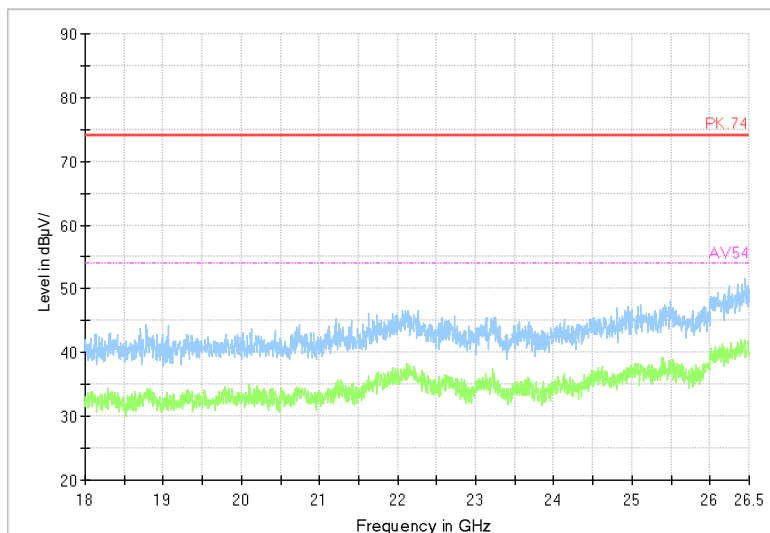


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE20)



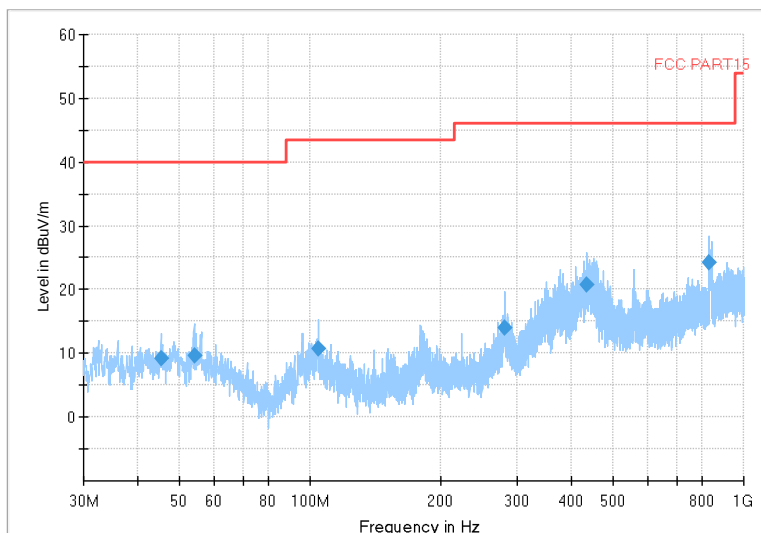
BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Carrier frequency (MHz): 2422

Channel No.:3

Full Spectrum

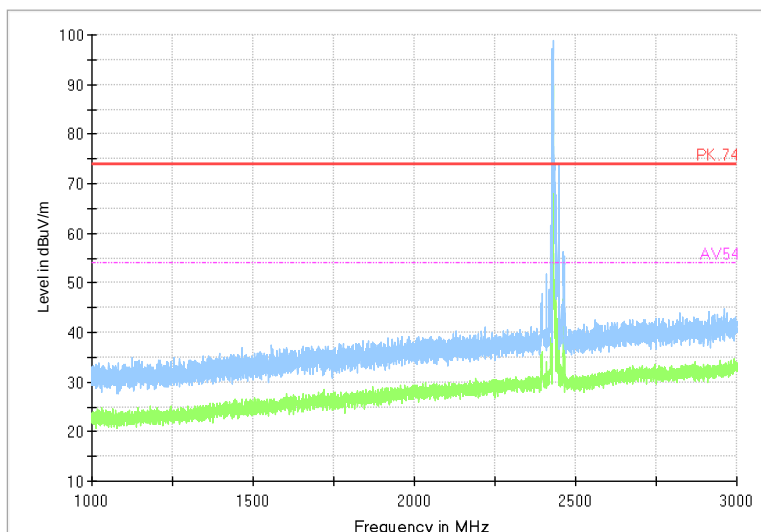


Frequency Range: 30MHz -1GHz

Detector: Detector: QP mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

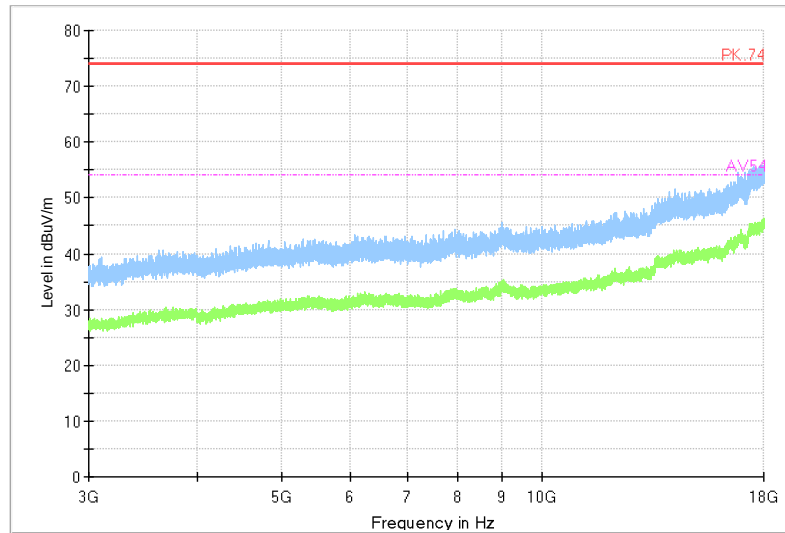
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

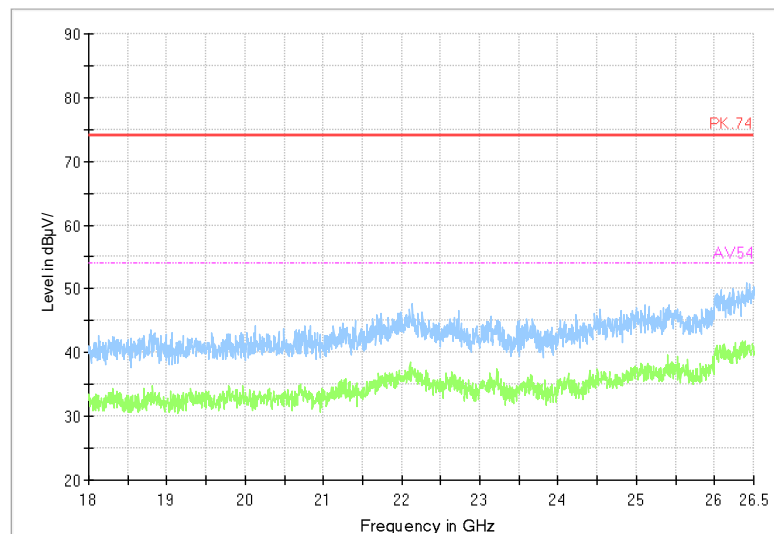


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)



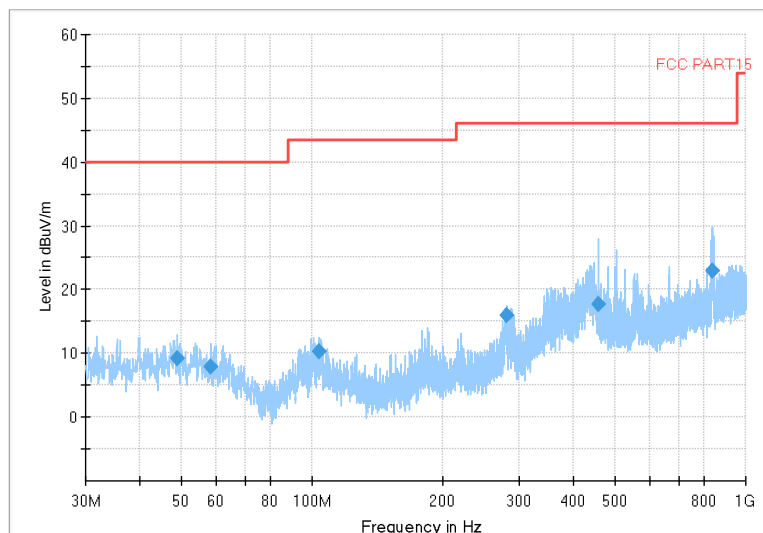
BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Carrier frequency (MHz): 2437

Channel No.:6

Full Spectrum

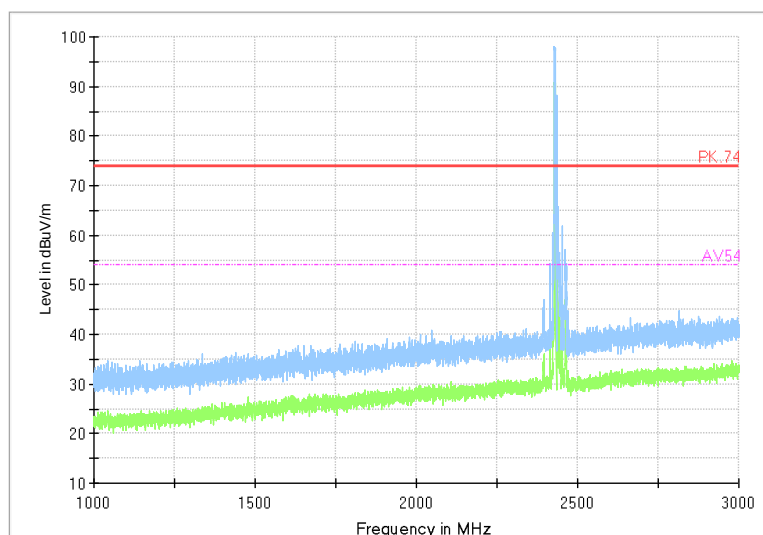


Frequency Range: 30MHz -1GHz

Detector: Detector: QP mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

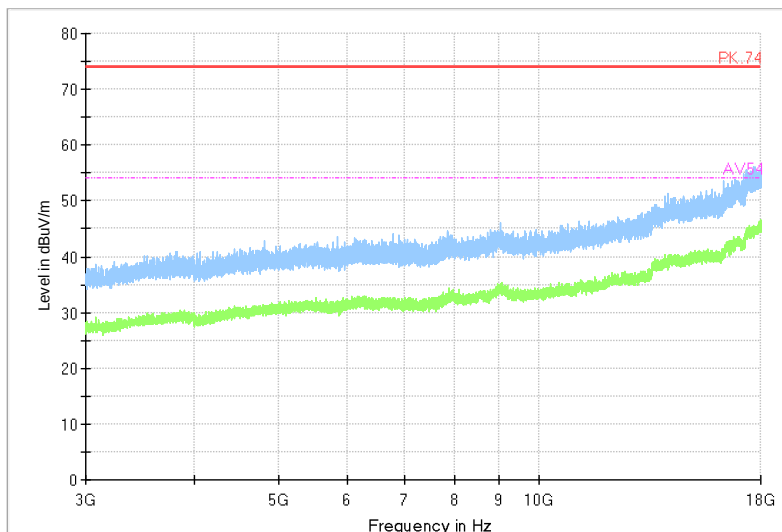
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

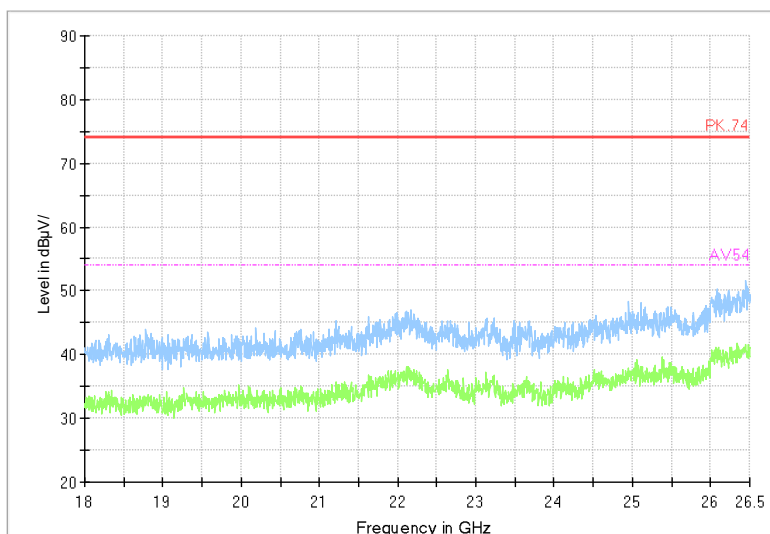


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)



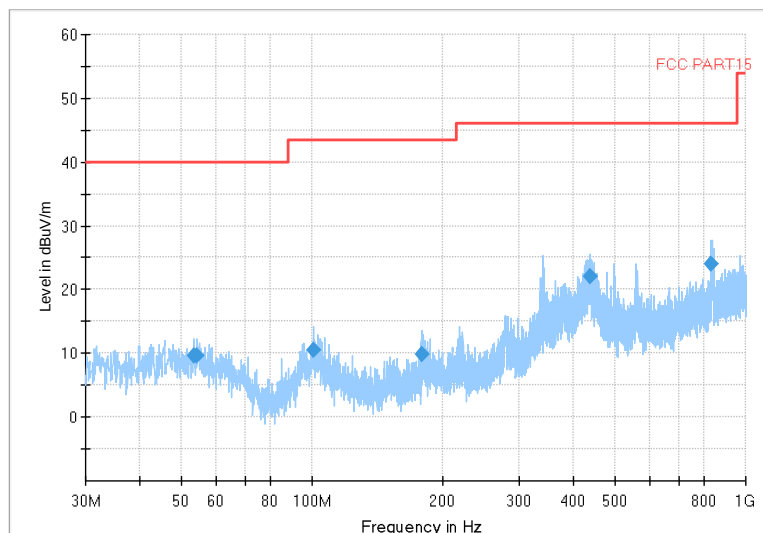
BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Carrier frequency (MHz): 2452

Channel No.:9

Full Spectrum

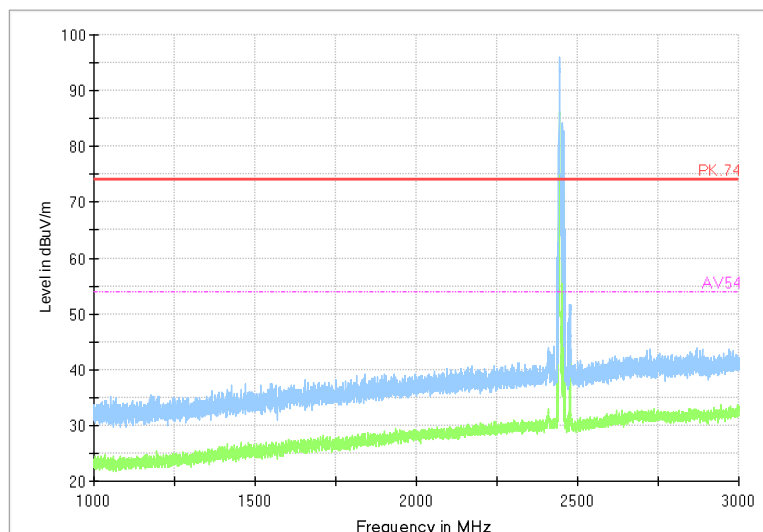


Frequency Range: 30MHz -1GHz

Detector: Detector: QP mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode

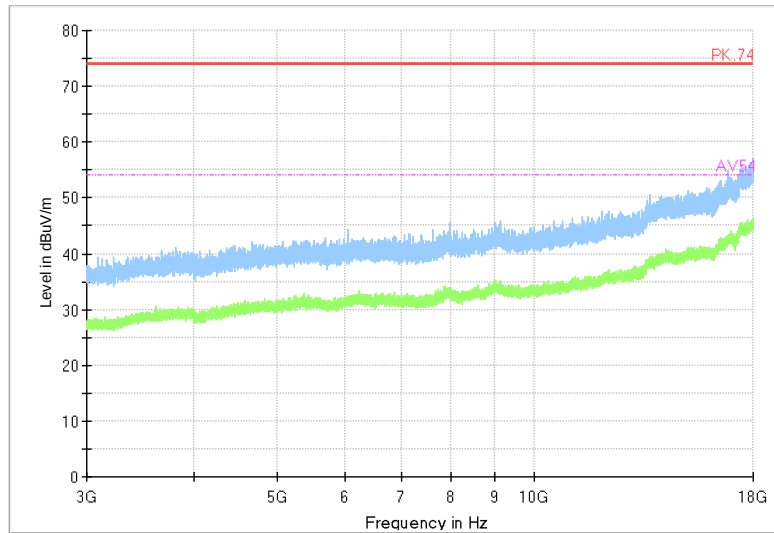
Modulation type: 802.11 ax(HE40)



BUREAU
VERITAS

Test Report No.: PSU-NQN2412170209

Full Spectrum

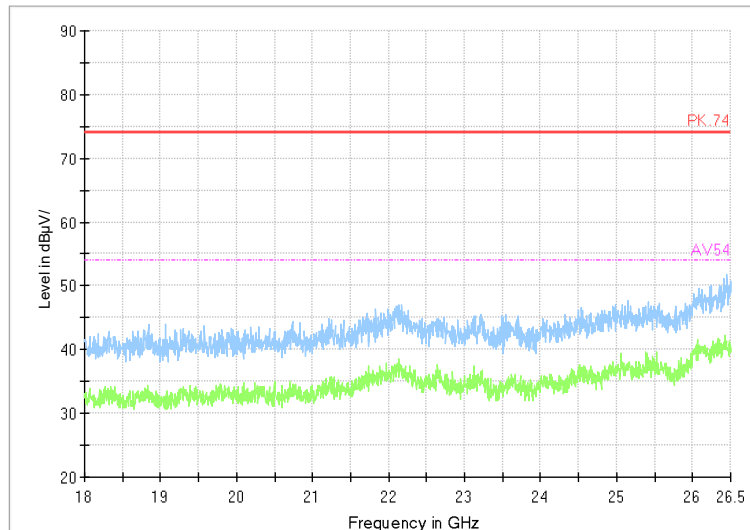


Frequency Range: 3GHz -18GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)

Full Spectrum



Frequency Range: 18GHz -26GHz

Detector: Av mode and PK mode

Modulation type: 802.11 ax(HE40)



3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 13,24	Feb. 12,25

NOTE:

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

3.3.3 TEST PROCEDURE

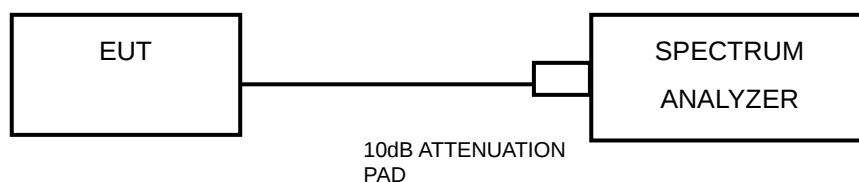
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

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



Test Report No.: PSU-NQN2412170209

3.3.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

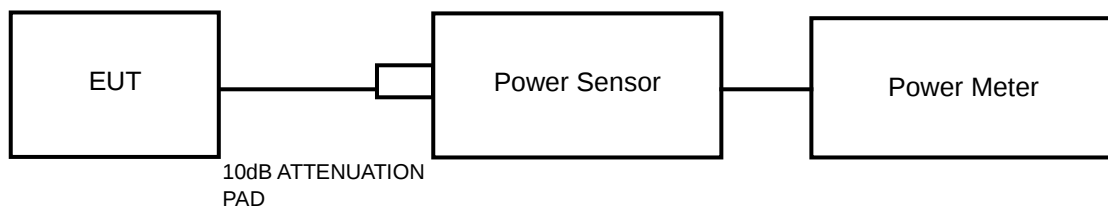


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 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. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

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



Test Report No.: PSU-NQN2412170209

3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix1/2 Of this test report.



Test Report No.: PSU-NQN2412170209

3.4.7.2 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.

Please Refer to Appendix1/2 Of this test report.

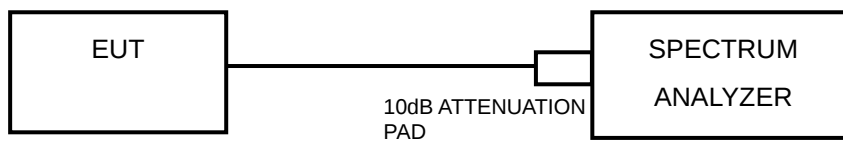


3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

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



Test Report No.: PSU-NQN2412170209

3.5.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

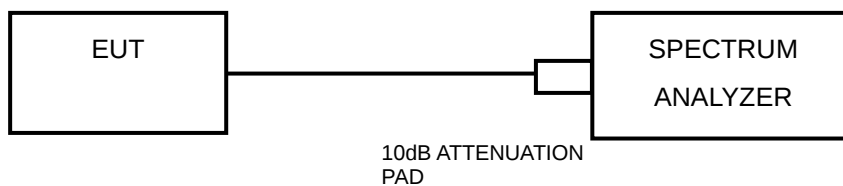


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

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

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

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.



MEASUREMENT PROCEDURE OOB

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.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

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

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix1/2 Of this test report.



3.7 ANTENNA REQUIREMENTS

3.7.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.7.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: PSU-NQN2412170209

5 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.



6 APPENDIX 1

WLAN 2.4G

DTS BANDWIDTH

TEST RESULT

Test Mode	Antenna	6 dB bandwidth(MHz)		
		Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	9.50	8.68	9.28
802.11g	Chain0	16.00	16.04	16.36
802.11n HT20	Chain0	15.70	15.98	17.07
802.11ax HE20	Chain0	18.98	18.99	19.09

Test Mode	Antenna	6 dB bandwidth(MHz)		
		Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	34.82	34.82	34.42
802.11ax HE40	Chain0	37.32	36.98	37.29

Test Mode	Tones/ RU Index	Antenna	6 dB bandwidth(MHz)		
			Channel No.1	Channel No.6	Channel No.11
			2412MHz	2437MHz	2462MHz
802.11ax HE20	26T 0	Chain0	2.01	2.02	2.03

Test Mode	Tones/ RU Index	Antenna	6 dB bandwidth(MHz)		
			Channel No.3	Channel No.6	Channel No.9
			2422MHz	2437MHz	2452MHz
802.11ax HE40	26T 0	Chain0	2.09	2.08	16.59

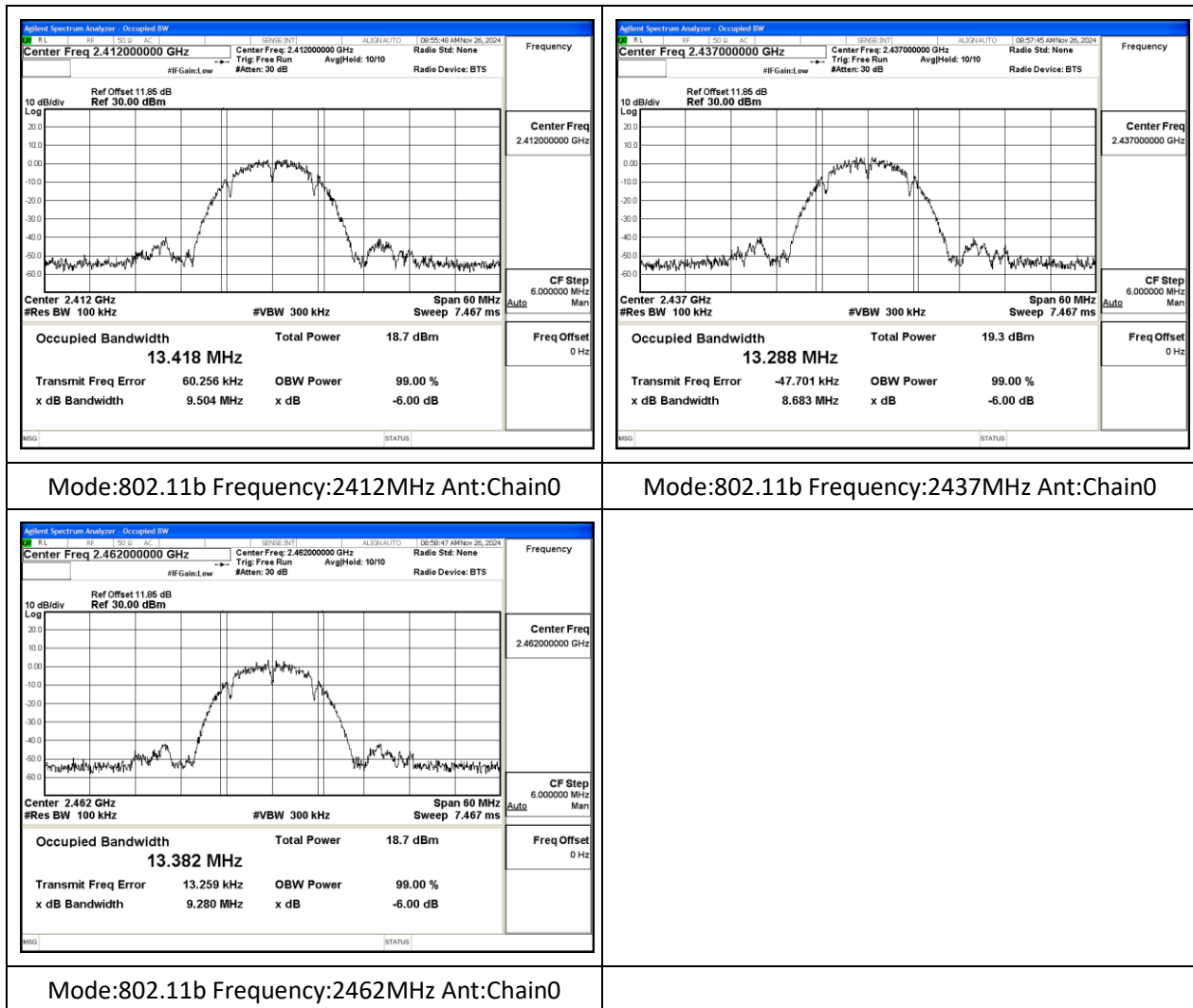


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TEST GRAPHS

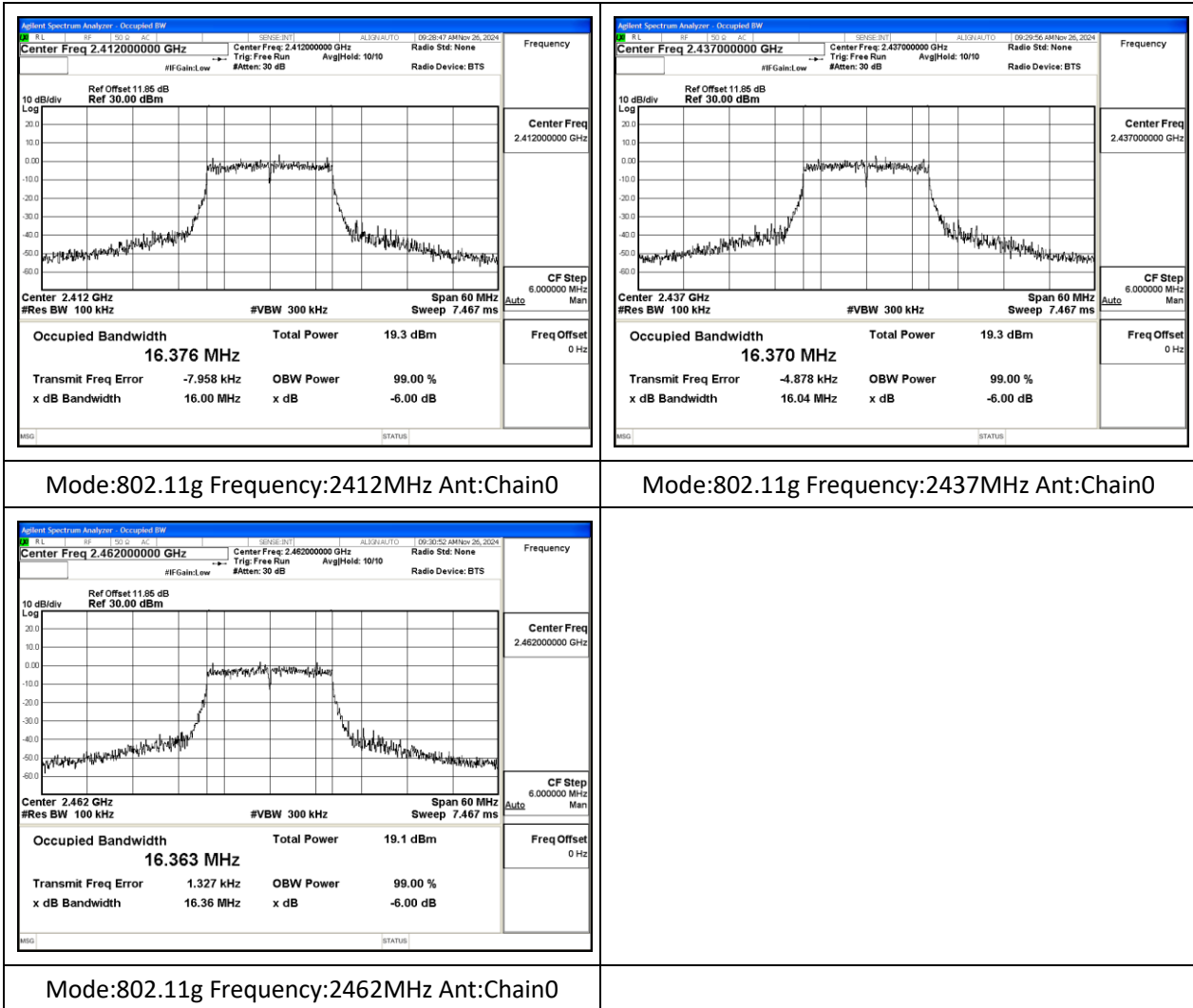
Test Mode: 802.11b



Test Mode: 802.11g



BUREAU VERITAS Test Report No.: PSU-NQN2412170209

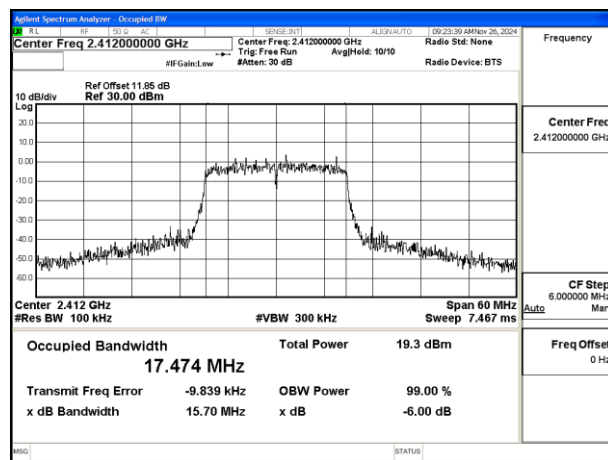




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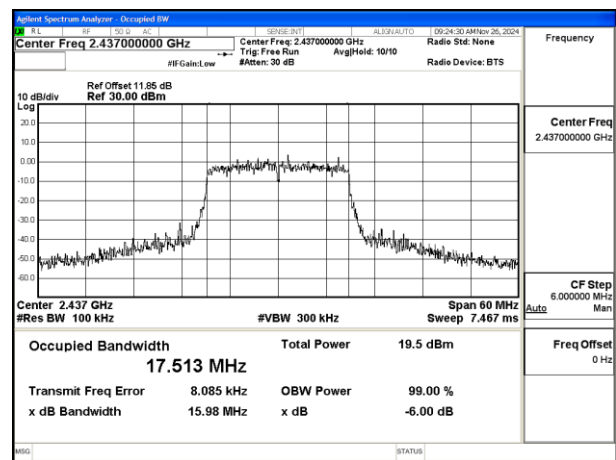
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11n HT20



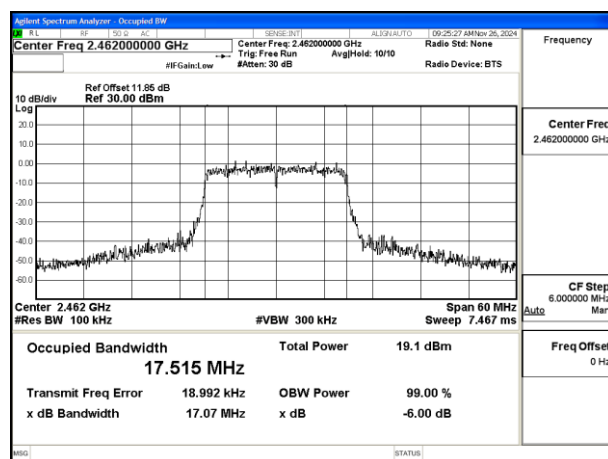
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz

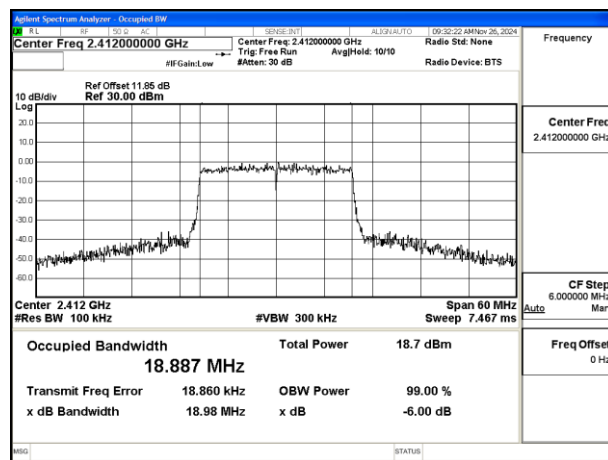
Ant:Chain0



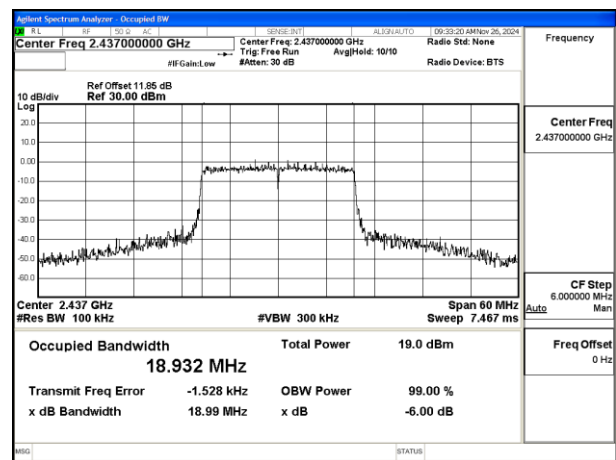
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Test Report No.: PSU-NQN2412170209

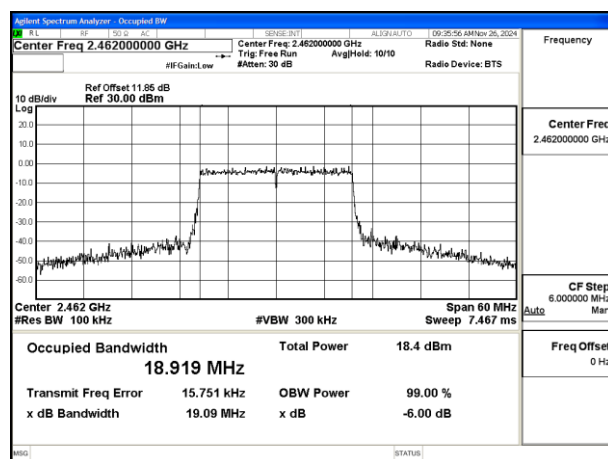
Test Mode: 802.11ax HE20



Mode:802.11ax HE20 Tone:242T
Frequency:2412MHz Ant:Chain0



Mode:802.11ax HE20 Tone:242T
Frequency:2437MHz Ant:Chain0



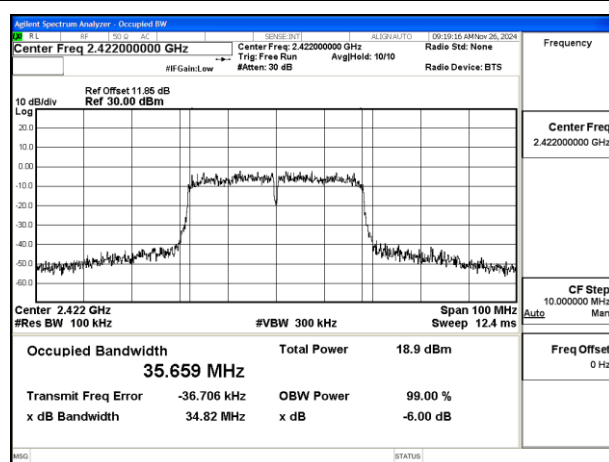
Mode:802.11ax HE20 Tone:242T
Frequency:2462MHz Ant:Chain0



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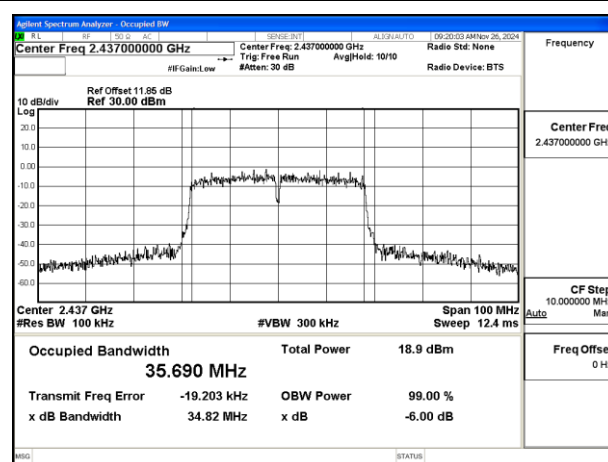
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11n HT40



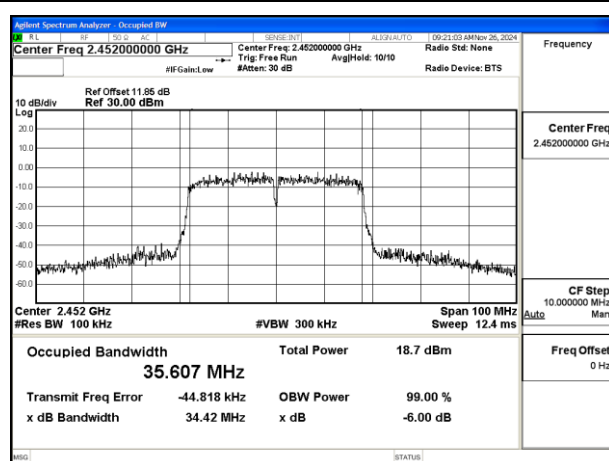
Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2452MHz

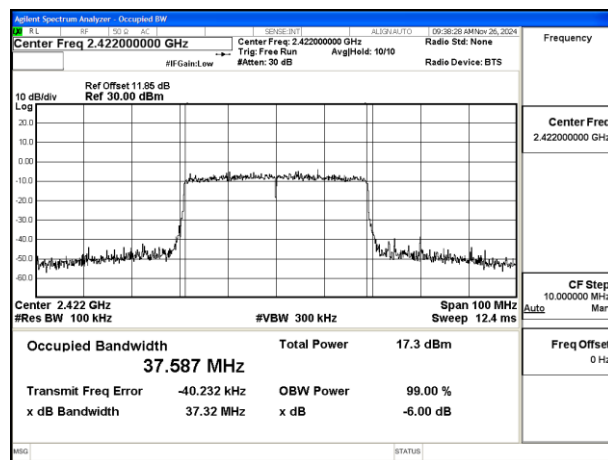
Ant:Chain0



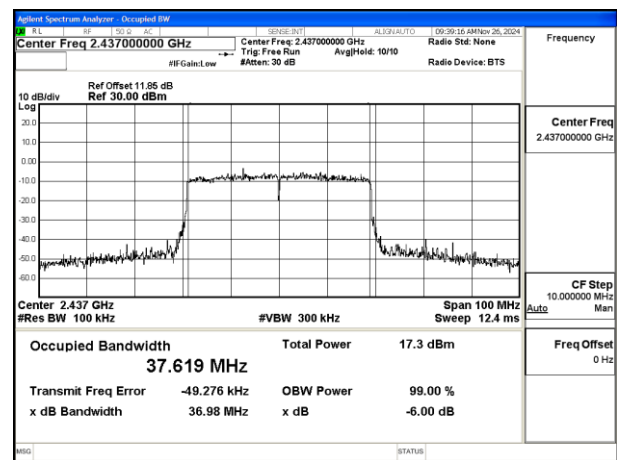
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Test Report No.: PSU-NQN2412170209

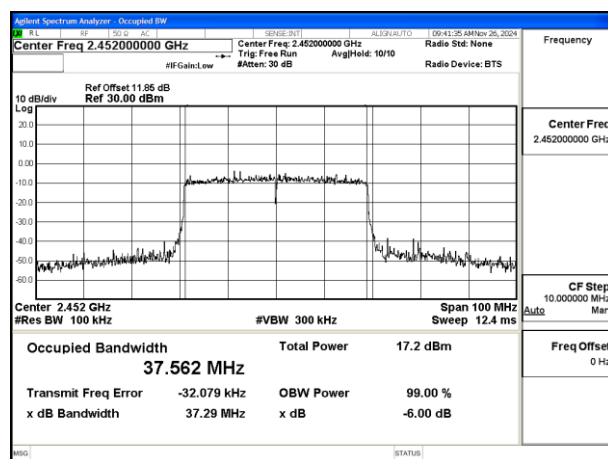
Test Mode: 802.11ax HE40



Mode:802.11ax HE40 Tone:484T
Frequency:2422MHz Ant:Chain0



Mode:802.11ax HE40 Tone:484T
Frequency:2437MHz Ant:Chain0



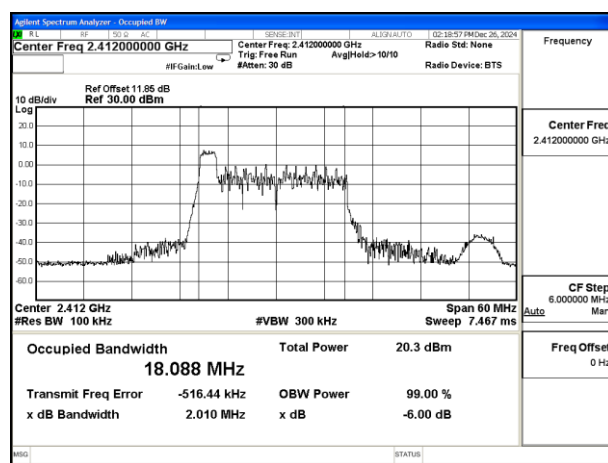
Mode:802.11ax HE40 Tone:484T
Frequency:2452MHz Ant:Chain0



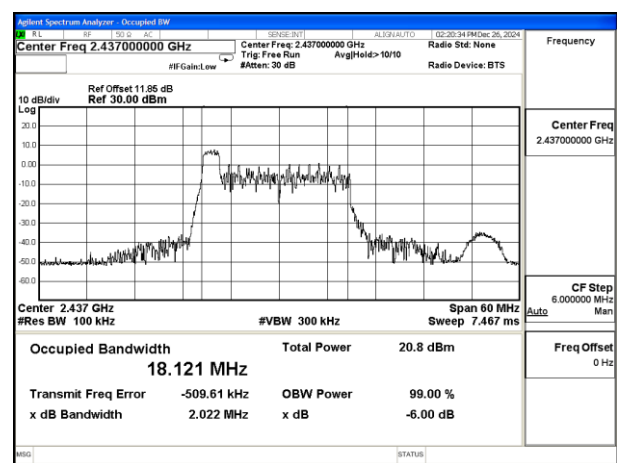
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Test Report No.: PSU-NQN2412170209

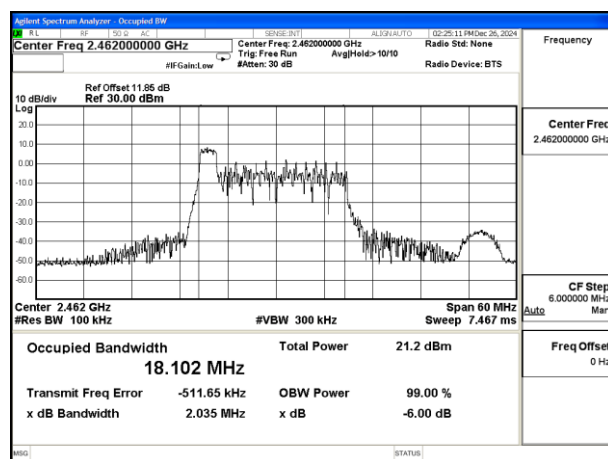
Test Mode: 802.11ax HE20 26T



Mode:802.11ax HE20 Tone:26T Frequency:2412MHz
Ant:Chain0



Mode:802.11ax HE20 Tone:26T Frequency:2437MHz
Ant:Chain0



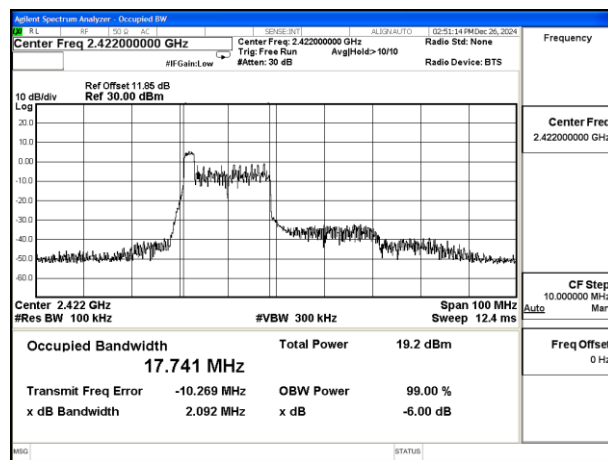
Mode:802.11ax HE20 Tone:26T Frequency:2462MHz
Ant:Chain0



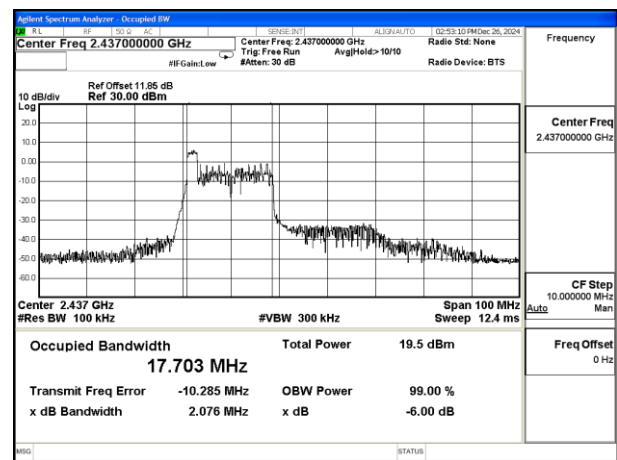
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Test Report No.: PSU-NQN2412170209

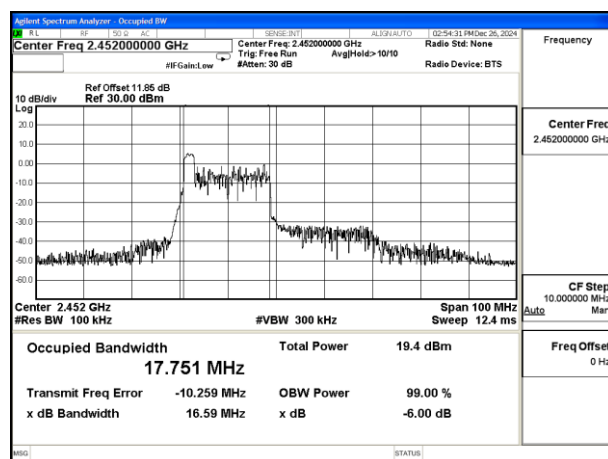
Test Mode: 802.11ax HE40 26T



Mode:802.11ax HE40 Tone:26T Frequency:2422MHz
Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:2437MHz
Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:2452MHz
Ant:Chain0

**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

Test Mode	Antenna	99% bandwidth(MHz)		
		Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	13.398	13.371	13.400
802.11g	Chain0	16.588	16.592	16.590
802.11n HT20	Chain0	17.568	17.637	17.644
802.11ax HE20	Chain0	19.125	18.981	18.958

Test Mode	Antenna	99% bandwidth(MHz)		
		Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	35.733	35.752	35.642
802.11ax HE40	Chain0	37.751	37.788	37.600

Test Mode	Tones/ RU Index	Antenna	99% bandwidth(MHz)		
			Channel No.1	Channel No.6	Channel No.11
			2412MHz	2437MHz	2462MHz
802.11ax HE20	26T 0	Chain0	18.440	18.491	18.475

Test Mode	Tones/ RU Index	Antenna	99% bandwidth(MHz)		
			Channel No.3	Channel No.6	Channel No.9
			2422MHz	2437MHz	2452MHz
802.11ax HE40	26T 0	Chain0	18.215	18.275	18.323

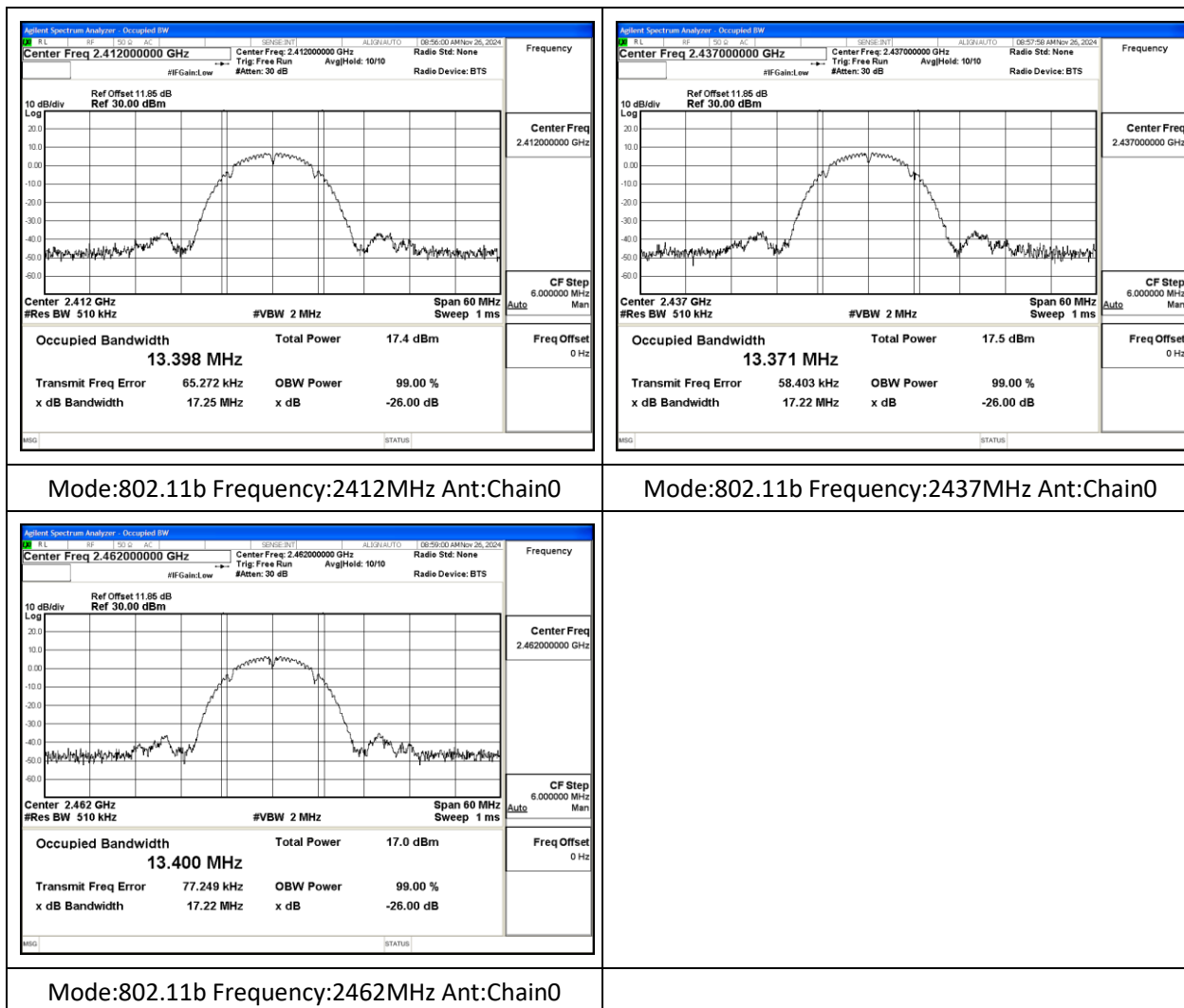


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TEST GRAPHS

Test Mode: 802.11b

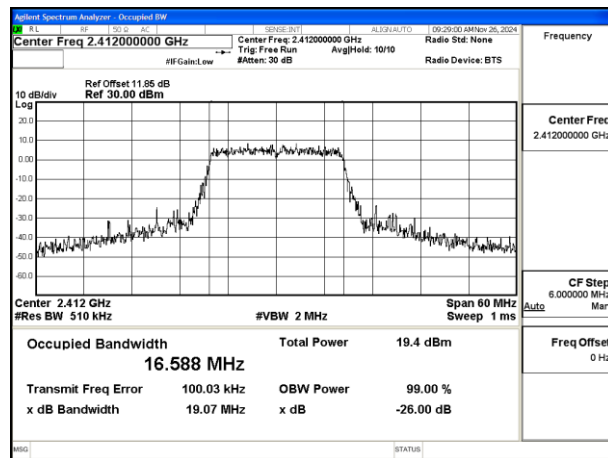




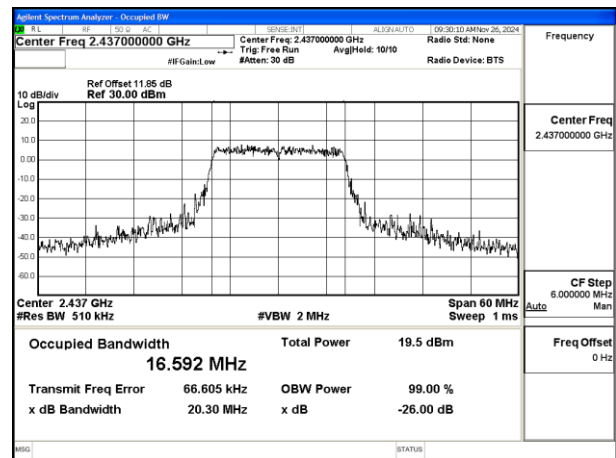
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Test Report No.: PSU-NQN2412170209

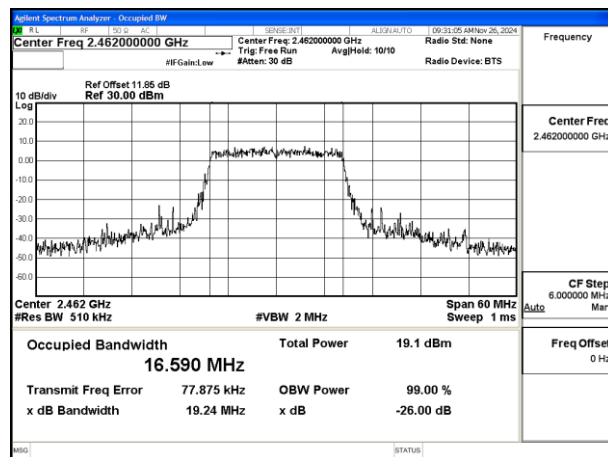
Test Mode: 802.11g



Mode:802.11g Frequency:2412MHz Ant:Chain0



Mode:802.11g Frequency:2437MHz Ant:Chain0



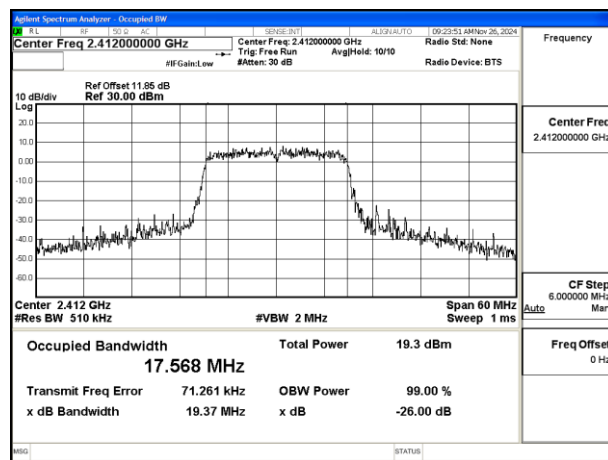
Mode:802.11g Frequency:2462MHz Ant:Chain0



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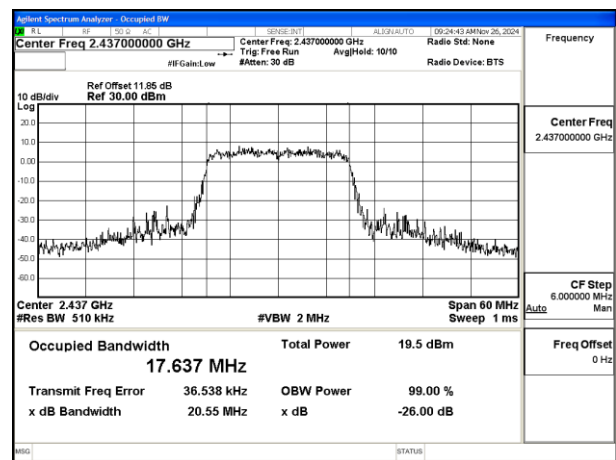
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11n HT20



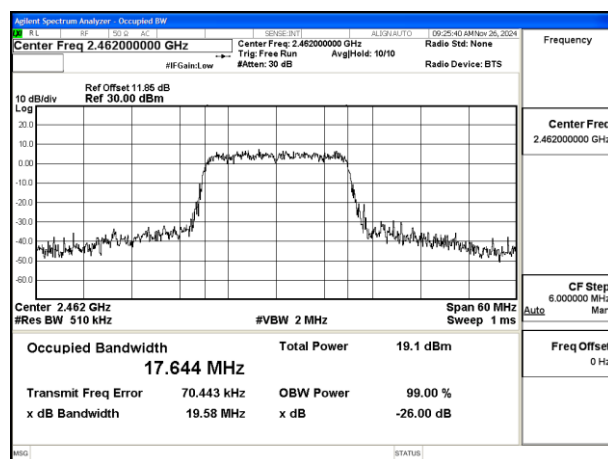
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz

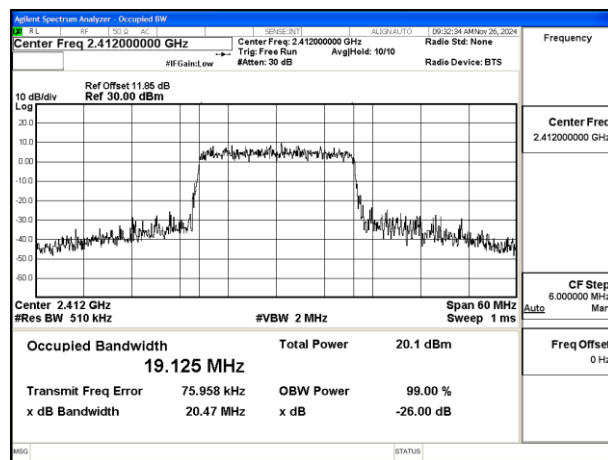
Ant:Chain0



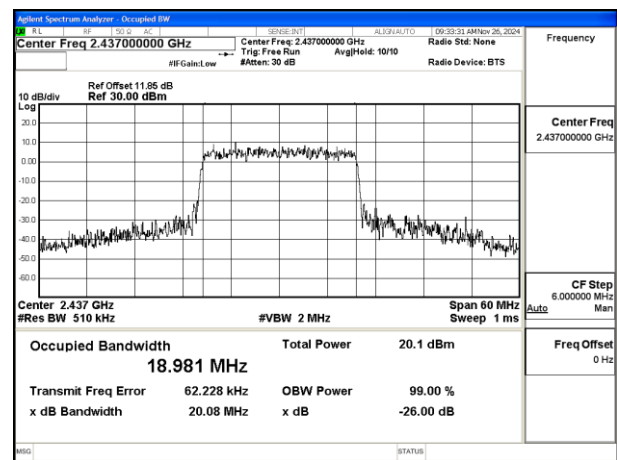
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Test Report No.: PSU-NQN2412170209

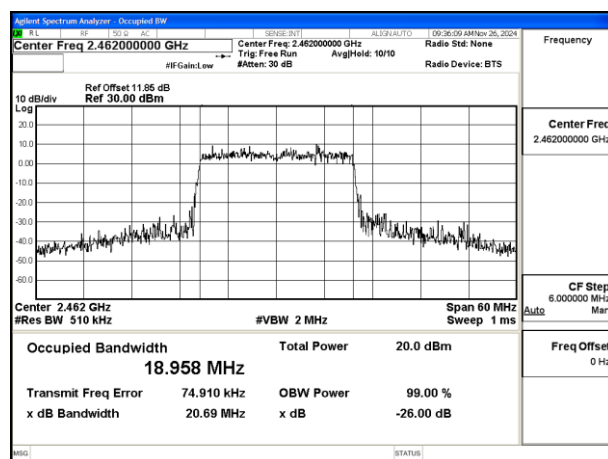
Test Mode: 802.11ax HE20



Mode:802.11ax HE20 Tone:242T
Frequency:2412MHz Ant:Chain0



Mode:802.11ax HE20 Tone:242T
Frequency:2437MHz Ant:Chain0



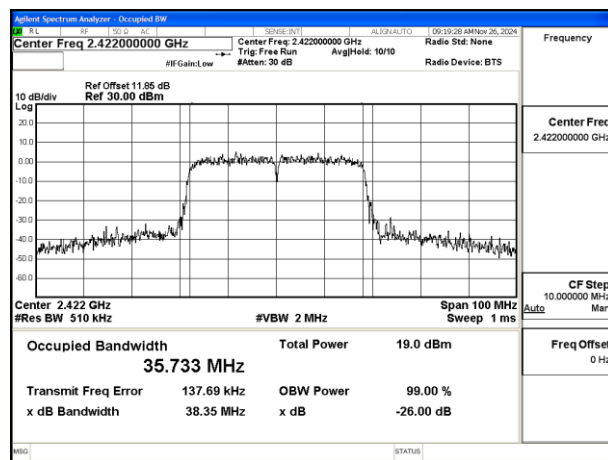
Mode:802.11ax HE20 Tone:242T
Frequency:2462MHz Ant:Chain0



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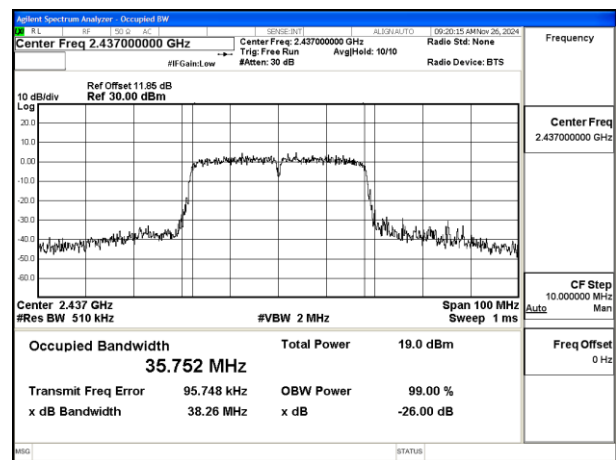
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11n HT40



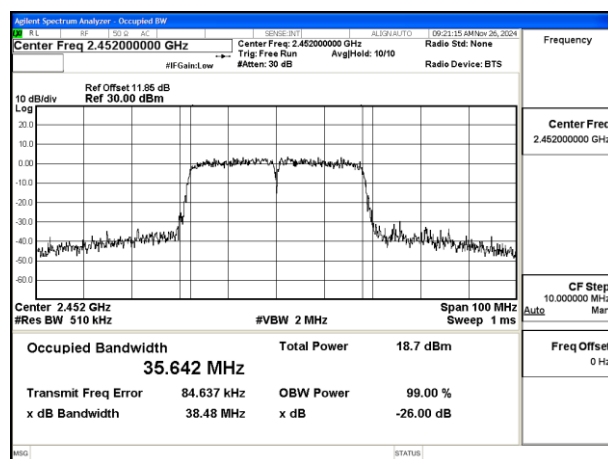
Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2452MHz

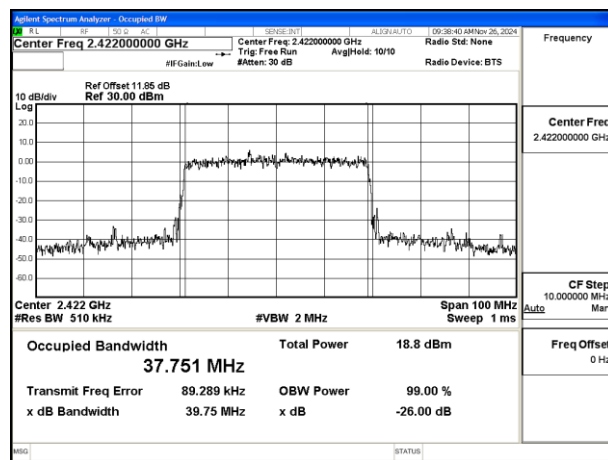
Ant:Chain0



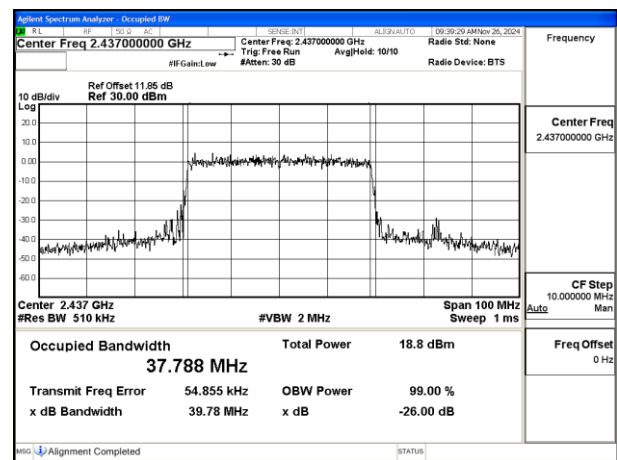
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Test Report No.: PSU-NQN2412170209

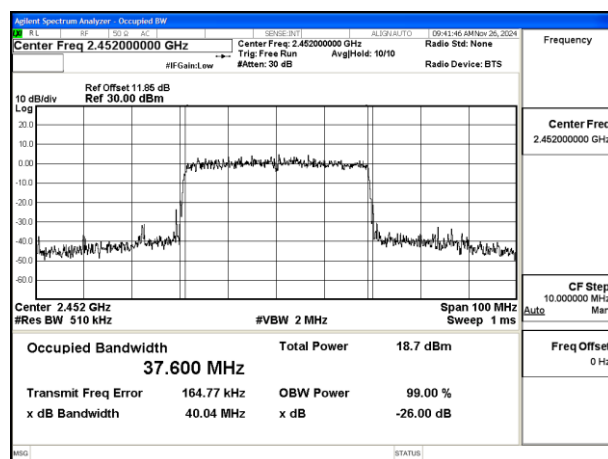
Test Mode: 802.11ax HE40



Mode:802.11ax HE40 Tone:484T
Frequency:2422MHz Ant:Chain0



Mode:802.11ax HE40 Tone:484T
Frequency:2437MHz Ant:Chain0



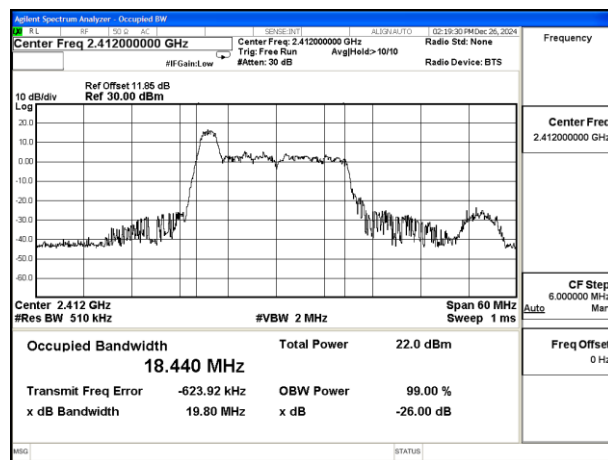
Mode:802.11ax HE40 Tone:484T
Frequency:2452MHz Ant:Chain0



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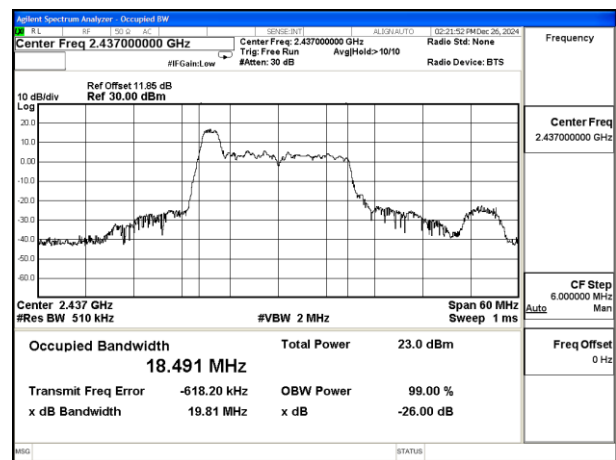
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11ax HE20 26T



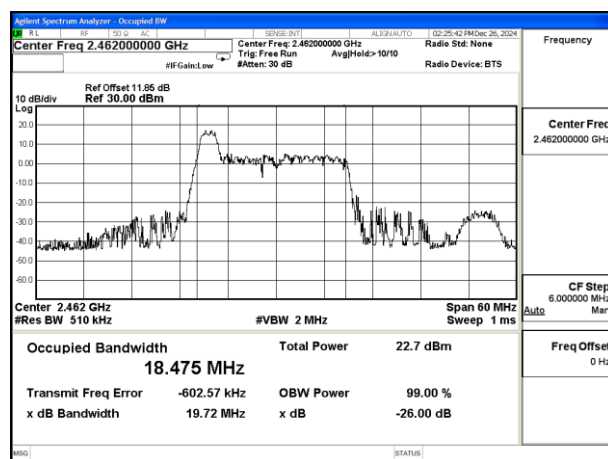
Mode:802.11ax HE20 Tone:26T Frequency:2412MHz

Ant:Chain0



Mode:802.11ax HE20 Tone:26T Frequency:2437MHz

Ant:Chain0



Mode:802.11ax HE20 Tone:26T Frequency:2462MHz

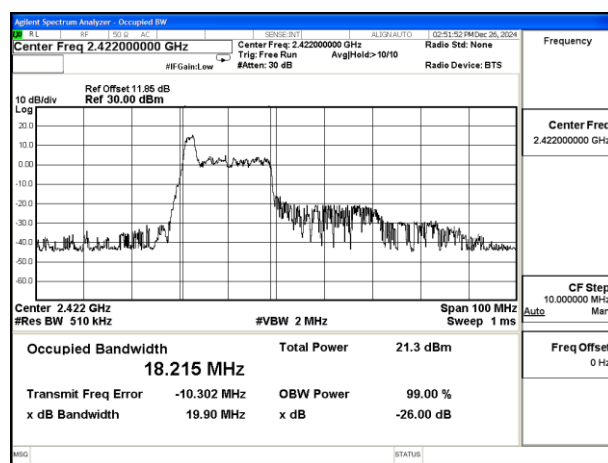
Ant:Chain0



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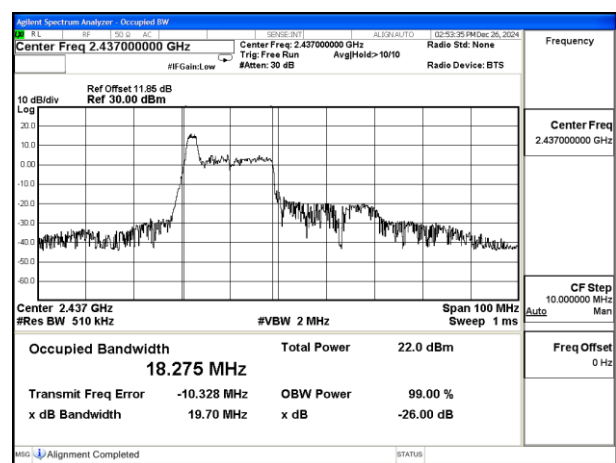
Test Report No.: PSU-NQN2412170209

Test Mode: 802.11ax HE40 26T



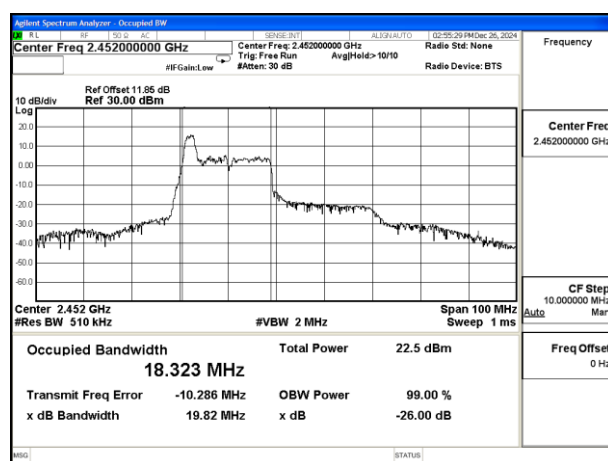
Mode:802.11ax HE40 Tone:26T Frequency:2422MHz

Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:2437MHz

Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:2452MHz

Ant:Chain0



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

NOTE: EIRP = Peak Power + Gain

Test Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Peak power output (dBm)	Average power output (dBm)	EIRP (dBm)
802.11b	NA	2412	Chain0	17.72	14.75	15.45
802.11b	NA	2437	Chain0	17.96	14.99	15.69
802.11b	NA	2462	Chain0	17.49	14.52	15.22
802.11g	NA	2412	Chain0	22.51	14.68	15.38
802.11g	NA	2437	Chain0	22.64	14.80	15.50
802.11g	NA	2462	Chain0	22.24	14.40	15.10
802.11n HT20	NA	2412	Chain0	22.54	14.56	15.26
802.11n HT20	NA	2437	Chain0	23.71	15.72	16.42
802.11n HT20	NA	2462	Chain0	23.25	15.27	15.97
802.11n HT40	NA	2422	Chain0	23.40	15.32	16.02
802.11n HT40	NA	2437	Chain0	23.43	15.36	16.06
802.11n HT40	NA	2452	Chain0	23.13	15.05	15.75

Test Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Peak power output (dBm)	Average power output (dBm)	EIRP (dBm)
802.11ax HE20	26T+0	2412	Chain0	24.52	13.94	14.64
802.11ax HE20	26T+0	2437	Chain0	25.04	14.15	14.85
802.11ax HE20	26T+0	2462	Chain0	24.51	13.63	14.33
802.11ax HE20	26T+4	2412	Chain0	25.74	14.94	15.64
802.11ax HE20	26T+4	2437	Chain0	25.87	15.12	15.82
802.11ax HE20	26T+4	2462	Chain0	25.56	14.65	15.35
802.11ax HE20	26T+8	2412	Chain0	25.04	14.10	14.80
802.11ax HE20	26T+8	2437	Chain0	25.11	14.16	14.86
802.11ax HE20	26T+8	2462	Chain0	24.65	13.85	14.55
802.11ax HE20	52T+37	2412	Chain0	24.89	14.07	14.77

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802.11ax HE20	52T+37	2437	Chain0	25.32	14.31	15.01
802.11ax HE20	52T+37	2462	Chain0	24.68	13.79	14.49
802.11ax HE20	52T+39	2412	Chain0	25.35	14.69	15.39
802.11ax HE20	52T+39	2437	Chain0	25.58	14.84	15.54
802.11ax HE20	52T+39	2462	Chain0	25.10	14.42	15.12
802.11ax HE20	52T+40	2412	Chain0	25.25	14.23	14.93
802.11ax HE20	52T+40	2437	Chain0	25.18	14.31	15.01
802.11ax HE20	52T+40	2462	Chain0	24.92	13.99	14.69
802.11ax HE20	106T+53	2412	Chain0	24.81	14.32	15.02
802.11ax HE20	106T+53	2437	Chain0	24.93	14.55	15.25
802.11ax HE20	106T+53	2462	Chain0	24.66	14.07	14.77
802.11ax HE20	106T+54	2412	Chain0	25.15	14.44	15.14
802.11ax HE20	106T+54	2437	Chain0	25.02	14.55	15.25
802.11ax HE20	106T+54	2462	Chain0	24.65	14.22	14.92
802.11ax HE20	242T+61	2412	Chain0	25.12	14.57	15.27
802.11ax HE20	242T+61	2437	Chain0	25.30	14.74	15.44
802.11ax HE20	242T+61	2462	Chain0	24.86	14.31	15.01
802.11ax HE40	26T+0	2422	Chain0	24.26	13.20	13.90
802.11ax HE40	26T+0	2437	Chain0	24.26	13.37	14.07
802.11ax HE40	26T+0	2452	Chain0	24.40	13.21	13.91
802.11ax HE40	26T+10	2422	Chain0	25.92	14.91	15.61
802.11ax HE40	26T+10	2437	Chain0	25.76	14.96	15.66
802.11ax HE40	26T+10	2452	Chain0	25.53	14.68	15.38
802.11ax HE40	26T+17	2422	Chain0	24.79	13.47	14.17
802.11ax HE40	26T+17	2437	Chain0	24.59	13.43	14.13
802.11ax HE40	26T+17	2452	Chain0	24.71	13.19	13.89
802.11ax HE40	52T+37	2422	Chain0	24.56	13.36	14.06
802.11ax HE40	52T+37	2437	Chain0	24.73	13.52	14.22
802.11ax HE40	52T+37	2452	Chain0	24.40	13.38	14.08
802.11ax HE40	52T+41	2422	Chain0	25.96	15.00	15.70
802.11ax HE40	52T+41	2437	Chain0	26.13	15.06	15.76
802.11ax HE40	52T+41	2452	Chain0	25.89	14.79	15.49
802.11ax HE40	52T+44	2422	Chain0	24.90	13.62	14.32
802.11ax HE40	52T+44	2437	Chain0	24.86	13.58	14.28
802.11ax HE40	52T+44	2452	Chain0	24.70	13.34	14.04



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Test Report No.: PSU-NQN2412170209

802.11ax HE40	106T+53	2422	Chain0	24.43	13.65	14.35
802.11ax HE40	106T+53	2437	Chain0	24.65	13.81	14.51
802.11ax HE40	106T+53	2452	Chain0	24.20	13.64	14.34
802.11ax HE40	106T+55	2422	Chain0	25.35	14.85	15.55
802.11ax HE40	106T+55	2437	Chain0	25.36	14.88	15.58
802.11ax HE40	106T+55	2452	Chain0	25.12	14.65	15.35
802.11ax HE40	106T+56	2422	Chain0	24.69	13.91	14.61
802.11ax HE40	106T+56	2437	Chain0	24.86	13.84	14.54
802.11ax HE40	106T+56	2452	Chain0	24.41	13.62	14.32
802.11ax HE40	242T+61	2422	Chain0	24.28	14.18	14.88
802.11ax HE40	242T+61	2437	Chain0	24.43	14.30	15.00
802.11ax HE40	242T+61	2452	Chain0	24.22	14.11	14.81
802.11ax HE40	242T+62	2422	Chain0	24.56	14.32	15.02
802.11ax HE40	242T+62	2437	Chain0	24.57	14.32	15.02
802.11ax HE40	242T+62	2452	Chain0	24.21	14.09	14.79
802.11ax HE40	484T+65	2422	Chain0	24.37	14.44	15.14
802.11ax HE40	484T+65	2437	Chain0	24.50	14.50	15.20
802.11ax HE40	484T+65	2452	Chain0	24.25	14.26	14.96



MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

Test Mode	Antenna	Tones	Power Density(dBm/3KHz)		
			Channel No.1	Channel No.6	Channel No.11
			2412MHz	2437MHz	2462MHz
802.11b	Chain0	NA	-21.368	-21.303	-24.104
802.11g	Chain0	NA	-21.820	-24.352	-24.637
802.11n HT20	Chain0	NA	-22.319	-23.313	-25.255
802.11ax HE20	Chain0	26T	-7.440	-7.267	-8.374
802.11ax HE20	Chain0	52T	-10.630	-10.464	-10.644
802.11ax HE20	Chain0	106T	-12.812	-12.664	-13.356
802.11ax HE20	Chain0	242T	-22.313	-23.575	-25.329

Test Mode	Antenna	Tones	Power Density(dBm/3KHz)		
			Channel No.3	Channel No.6	Channel No.9
			2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	NA	-25.973	-26.921	-27.949
802.11ax HE40	Chain0	26T	-9.454	-9.065	-9.544
802.11ax HE40	Chain0	52T	-12.121	-11.582	-12.448
802.11ax HE40	Chain0	106T	-14.957	-14.583	-14.979
802.11ax HE40	Chain0	242T	-15.820	-15.774	-16.120
802.11ax HE40	Chain0	484T	-27.133	-27.732	-28.959