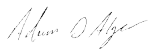
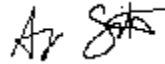


Test Report TR3959B

Equipment Under Test:	802.11ac Professional Wi-Fi + BT5.0 Module
Requirement(s):	FCC 15.407 RSS-247, RSS-Gen
Test Date(s):	2/17/2026 – 3/3/2026
Prepared for:	Ezurio LLC Attn: Brian Petted W66 N220 Commerce Ct. Cedarburg, WI 53012

Report Issued by: Anthony Smith, EMC Engineering Specialist	
Signature: 	Date: 04/30/2026
Report Reviewed by: Adam Alger, Sr. Manger, EMC Laboratory	
Signature: 	Date: 03/24/2026
Report Constructed by: Anthony Smith, EMC Engineering Specialist	
Signature: 	Date: 03/24/2026

This test report may not be reproduced, except in full, without approval of Ezurio

Company: Ezurio LLC	Page 1 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734

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Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope

A2LA Certificate Number: 1255.01

Scope of accreditation includes all test methods listed herein unless otherwise noted



Federal Communications Commission (FCC) – USA

Accredited Test Firm Registration Number: 953492

Recognition of two 3 meter Semi-Anechoic Chambers



Innovation, Science and Economic Development Canada

Accredited U.S. Identification Number: US0218

Recognition of two 3 meter Semi-Anechoic Chambers

Company: Ezurio LLC	Page 3 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734

1 TEST REPORT SUMMARY

During **February 17th, 2026 to March 3rd, 2026** the Equipment Under Test (EUT), **802.11ac Professional Wi-Fi + BT5.0 Module**, as provided by **Ezurio LLC** was tested to the following requirements:

Class 2 Permissive Change

Requirements	Description	Method	Compliant
FCC 15.407 (e) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	99% Occupied Bandwidth & DTS Bandwidth	ANSI C63.10	Yes
FCC 15.407(a) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Conducted Output Power	ANSI C63.10	Yes
FCC 15.407 (a)(1)(2)(3) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Power Spectral Density	ANSI C63.10	Yes
FCC 15.407(b), 15.209 RSS-247 § 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4, RSS-Gen § 6.13	Radiated Spurious Emissions – Restricted Frequency Bands 30-40000 MHz	ANSI C63.10	Yes

Note: Class 2 permissive change testing to add an antenna.

Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	0.5 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

2 CLIENT INFORMATION

Company Name	Ezurio LLC
Contact Person	Brian Petted
Address	W66 N220 Commerce Ct. Cedarburg, WI 53012

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	802.11ac Professional Wi-Fi + BT5.0 Module
Model Number	SU60-SOMC (453-00003)
Serial Number	5302203735 (Conducted Testing) 5302203734 (Radiated Testing)
Date of Receipt	2/12/2026
Condition	New
FCC ID	SQG-SU60SOMC
IC ID	3147A-SU60SOMC

2.2 Product Description

Device is a combo WLAN 2.4/5G and Bluetooth radio.

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

2.5 Test Channels

Nominal Bandwidth	Mode	Data Rate	Channel	Power Setting
20	802.11a	6Mbps	36	14
20	802.11a	6Mbps	48	18
20	802.11a	6Mbps	60	16
20	802.11a	6Mbps	100	13
20	802.11a	6Mbps	116	18
20	802.11a	6Mbps	157	18
20	802.11a	6Mbps	165	18
20	802.11n	MCS0	36	14
20	802.11n	MCS0	100	14
20	802.11n	MCS0	165	18
20	802.11ac	MCS0	36	14
20	802.11ac	MCS0	40	18
20	802.11ac	MCS0	48	18
20	802.11ac	MCS0	64	14
20	802.11ac	MCS0	100	14
20	802.11ac	MCS0	116	18
20	802.11ac	MCS0	149	18
20	802.11ac	MCS0	165	18
40	802.11n	MCS0	38	13
40	802.11n	MCS0	102	13
40	802.11n	MCS0	159	16
40	802.11ac	MCS0	38	13
40	802.11ac	MCS0	46	16
40	802.11ac	MCS0	54	15
40	802.11ac	MCS0	62	12
40	802.11ac	MCS0	102	13
40	802.11ac	MCS0	118	16
40	802.11ac	MCS0	142	10
40	802.11ac	MCS0	151	16
40	802.11ac	MCS0	159	16
80	802.11ac	MCS0	42	10
80	802.11ac	MCS0	58	11
80	802.11ac	MCS0	106	11
80	802.11ac	MCS0	122	14
80	802.11ac	MCS0	138	14
80	802.11ac	MCS0	155	14

2.6 Additional Information

Device programmed via USB to RS232 utilizing a Laptop PC. "LRU" version 13.24.0.20 utilized to program radio test modes on device. All test mode modulations utilized a 100% Duty Cycle.

During conducted testing non measured port was terminated with 50Ω. During radiated testing main port connected to antenna 1001735 and aux port connected to antenna 1001733.

Antenna 1001733 has peak gain of 3.8 dBi in 5 GHz band.

Antenna 1001735 has peak gain of 4.2 dBi in 5 GHz band.

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Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
ANSI C63.10		2020		
RSS-247	4	2025	-	-
RSS-Gen	5	2018	2019	2021
FCC eCFR 47 Part 15	-	2026	-	-

4 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of $k = 2$.

References
CISPR 16-4-1
CISPR 16-4-2
CISPR 32
ANSI C63.23
A2LA P103
A2LA P103c
ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

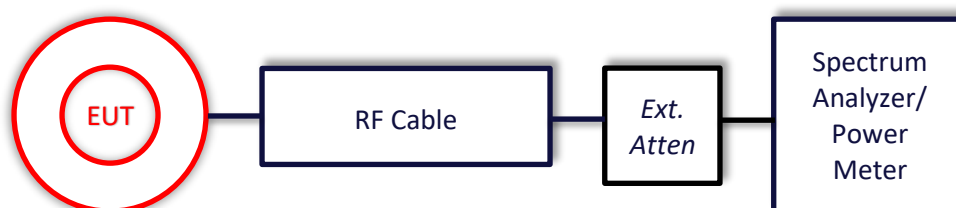
Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

5 TEST DATA

5.1 Antenna Port Conducted Emissions

Description of Measurement	The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

5.1.1 99% OBW & DTS BW

Operator	Anthony Smith	QA	Dylan Rosenfeldt
Temperature	21.4, 22.3, 21.6°C	R.H. %	34.0, 36.6, 31.3
Test Date	2/17/2026, 2/18/2026, 2/19/2026	Location	Conducted RF Bench
Requirement	FCC 15.407(a)(e) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Method	ANSI C63.10

Limits:

Minimum 6 dB bandwidth $\geq$ 500 kHz

99% Occupied bandwidth reported

26 dB bandwidth reported

Test Parameters

Frequency	5150-5850 MHz	Setup	Conducted RF
RBW	200 kHz (20 MHz Channel) 470 kHz (40 MHz Channel) 1 MHz (80 MHz Channel) 100 kHz (6 dB DTS BW)	VBW	1 MHz (20 MHz Channel) 2 MHz (40 MHz Channel) 3 MHz (80 MHz Channel) 300 kHz (6 dB DTS BW)
Detector(s)	Peak	Trace	Max Hold

EUT Parameters

Input Power	3.3VDC	Mode	WLAN 5 Transmit
Frequency	5180, 5500, 5825 (20 MHz Ch) 5190, 5510, 5795 (40 MHz Ch) 5210, 5530, 5775 (80 MHz Ch)	Channel	5180, 5500, 5825 (20 MHz Ch) 38, 102, 159 (40 MHz Ch) 42, 106, 155 (80 MHz Ch)

Table

99% OBW

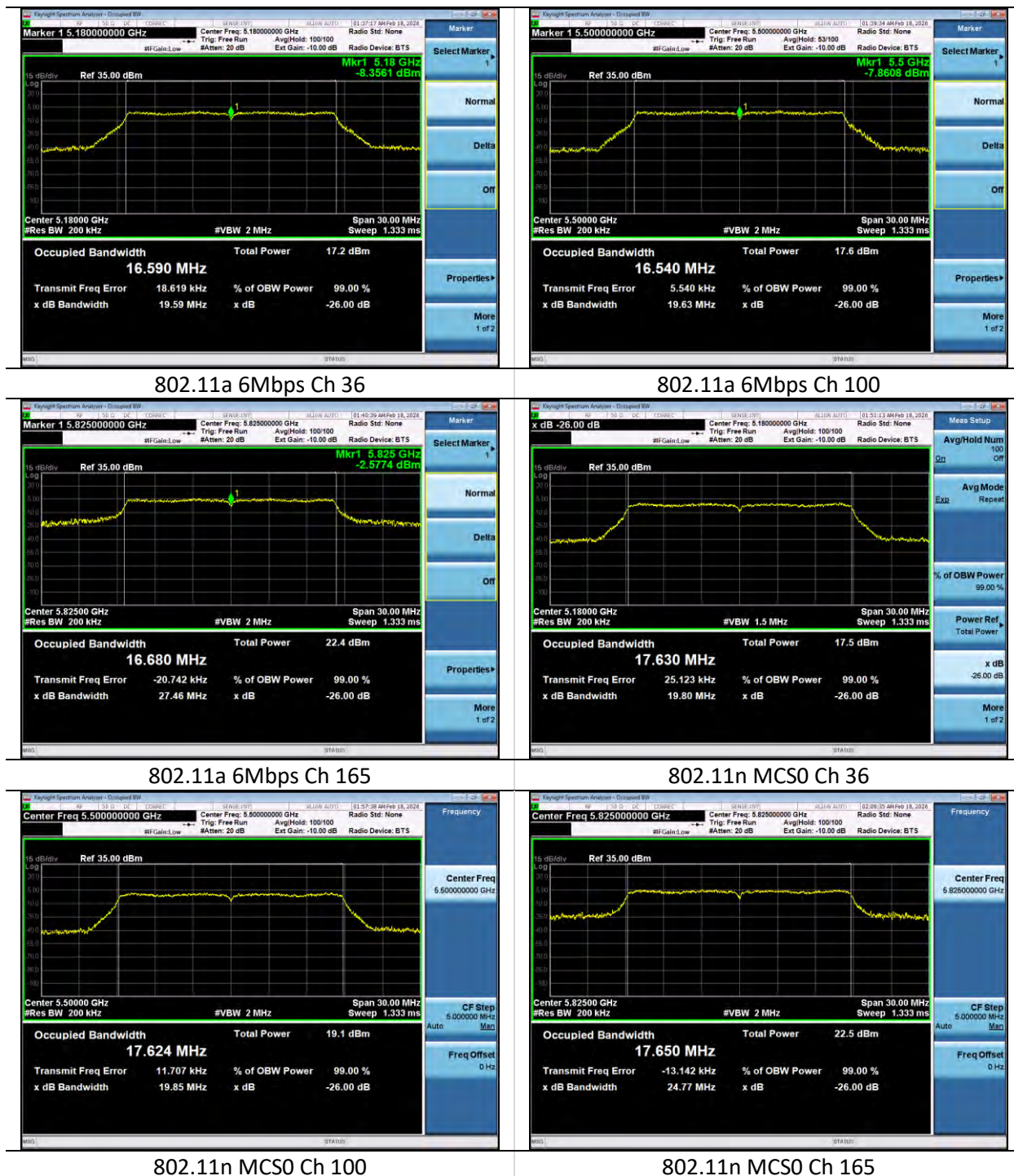
Nominal Bandwidth	Channel	Mode	Data Rate	OBW (MHz)
20	36	802.11a	6Mbps	16.59
20	100	802.11a	6Mbps	16.54
20	165	802.11a	6Mbps	16.68
20	36	802.11n	MCS0	17.63
20	100	802.11n	MCS0	17.62
20	165	802.11n	MCS0	17.65
20	36	802.11ac	MCS0	17.64
20	100	802.11ac	MCS0	17.63
20	165	802.11ac	MCS0	17.66
40	38	802.11n	MCS0	36.14
40	102	802.11n	MCS0	36.13
40	159	802.11n	MCS0	36.14
40	38	802.11ac	MCS0	36.14
40	102	802.11ac	MCS0	36.10
40	159	802.11ac	MCS0	36.21
80	42	802.11ac	MCS0	75.98
80	106	802.11ac	MCS0	75.96
80	155	802.11ac	MCS0	75.97

DTS BW (26dB for UNII 1, 2A, and 2C. 6dB for UNII 3)

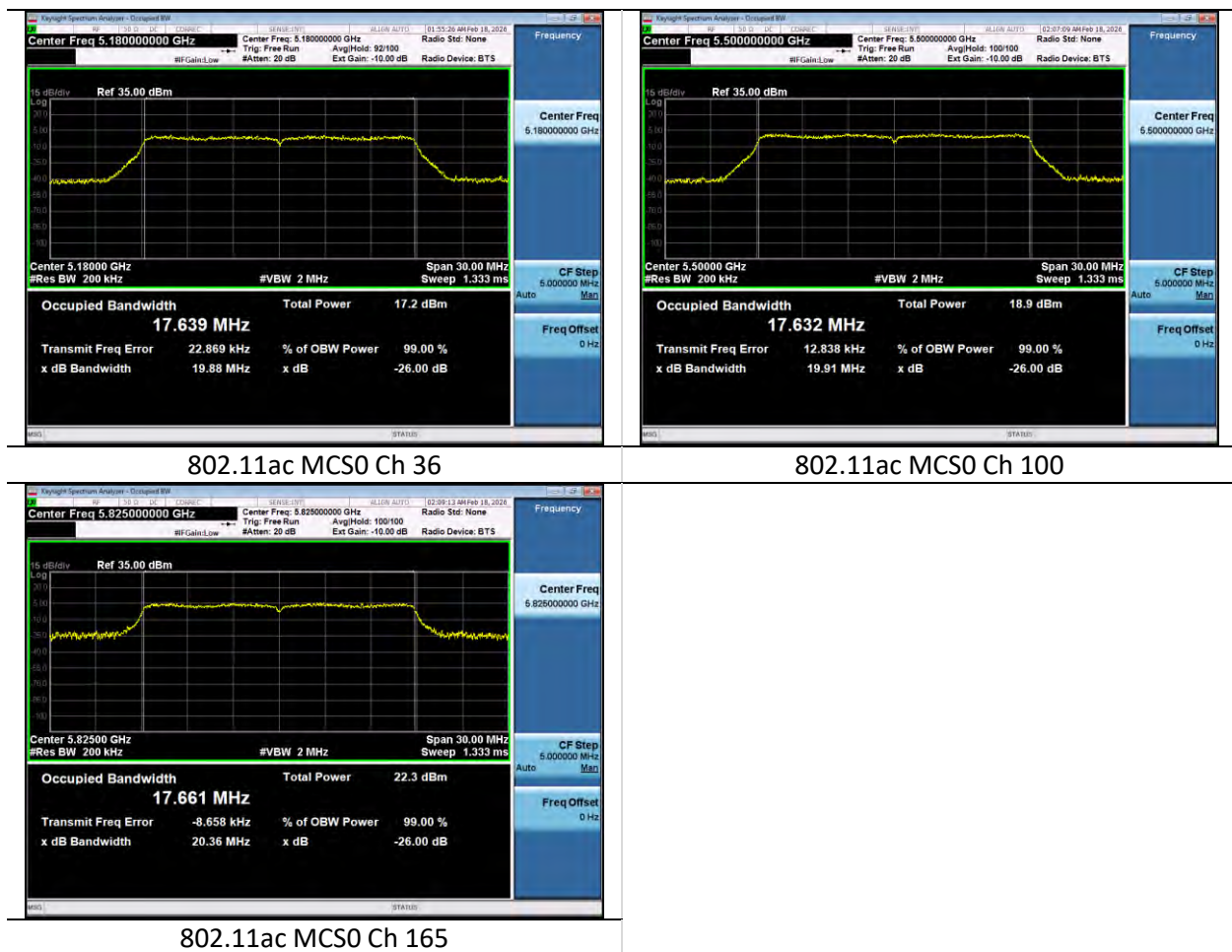
Nominal Bandwidth	Channel	Mode	Data Rate	DTS BW (MHz)
20	36	802.11a	6Mbps	19.59
20	100	802.11a	6Mbps	19.63
20	165	802.11a	6Mbps	16.55
20	36	802.11n	MCS0	19.80
20	100	802.11n	MCS0	19.85
20	165	802.11n	MCS0	17.69
20	36	802.11ac	MCS0	19.88
20	100	802.11ac	MCS0	19.91
20	165	802.11ac	MCS0	17.70
40	38	802.11n	MCS0	40.10
40	102	802.11n	MCS0	39.47
40	159	802.11n	MCS0	36.38
40	38	802.11ac	MCS0	39.95
40	102	802.11ac	MCS0	39.74
40	159	802.11ac	MCS0	36.41
80	42	802.11ac	MCS0	81.25
80	106	802.11ac	MCS0	81.27
80	155	802.11ac	MCS0	76.53

Plots

99% OBW and 26 dB DTS BW



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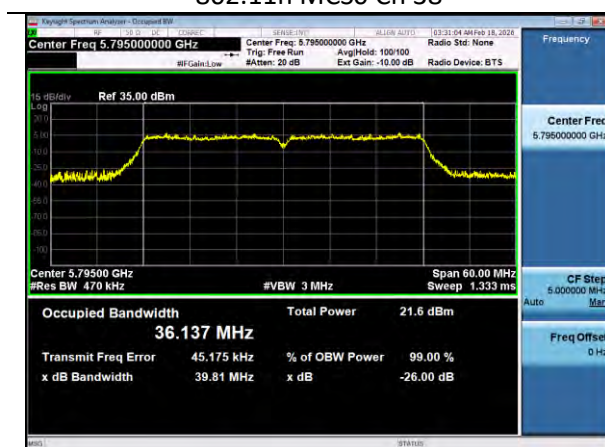




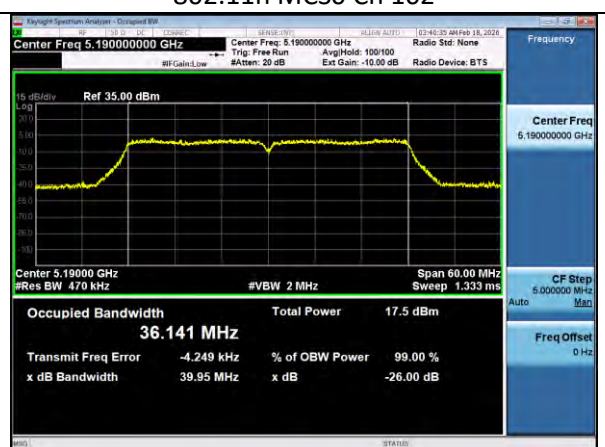
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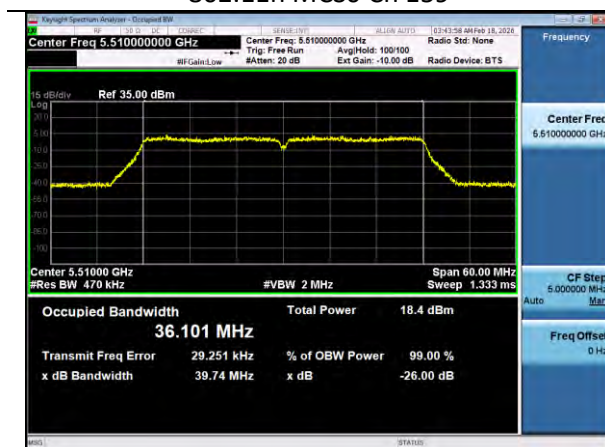
802.11n MCS0 Ch 102



802.11n MCS0 Ch 159



802.11ac MCS0 Ch 38

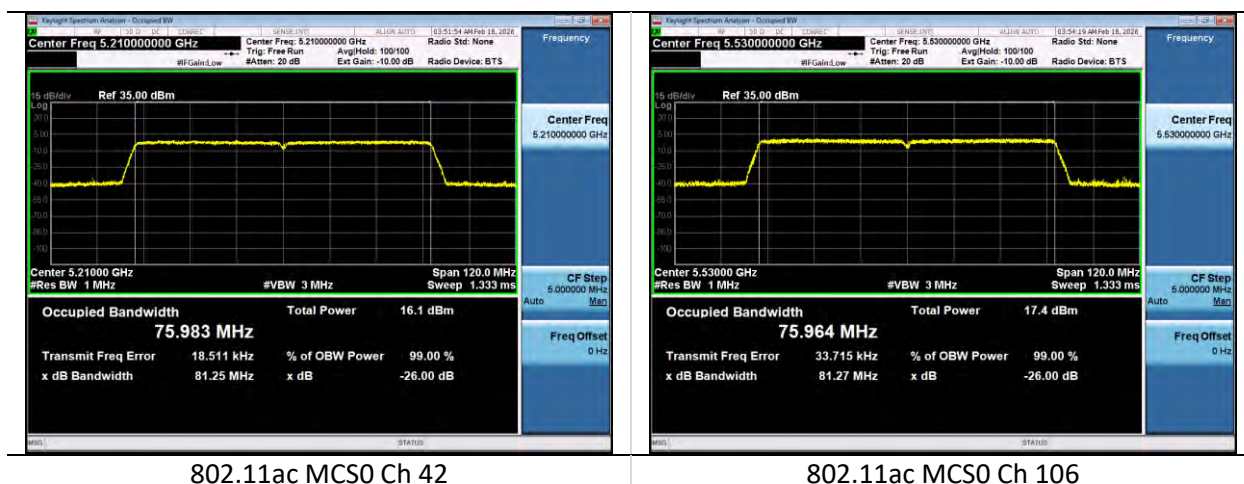


802.11ac MCS0 Ch 102



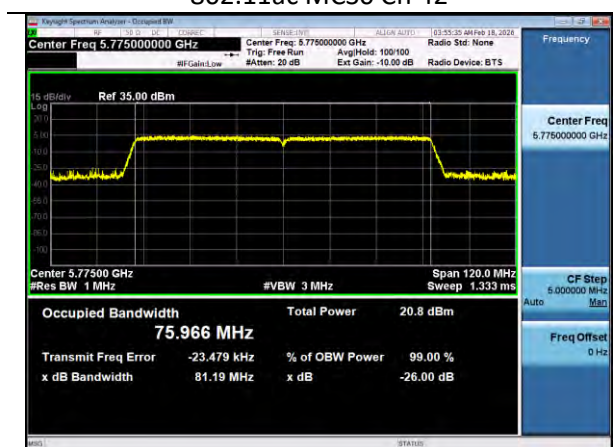
802.11ac MCS0 Ch 159

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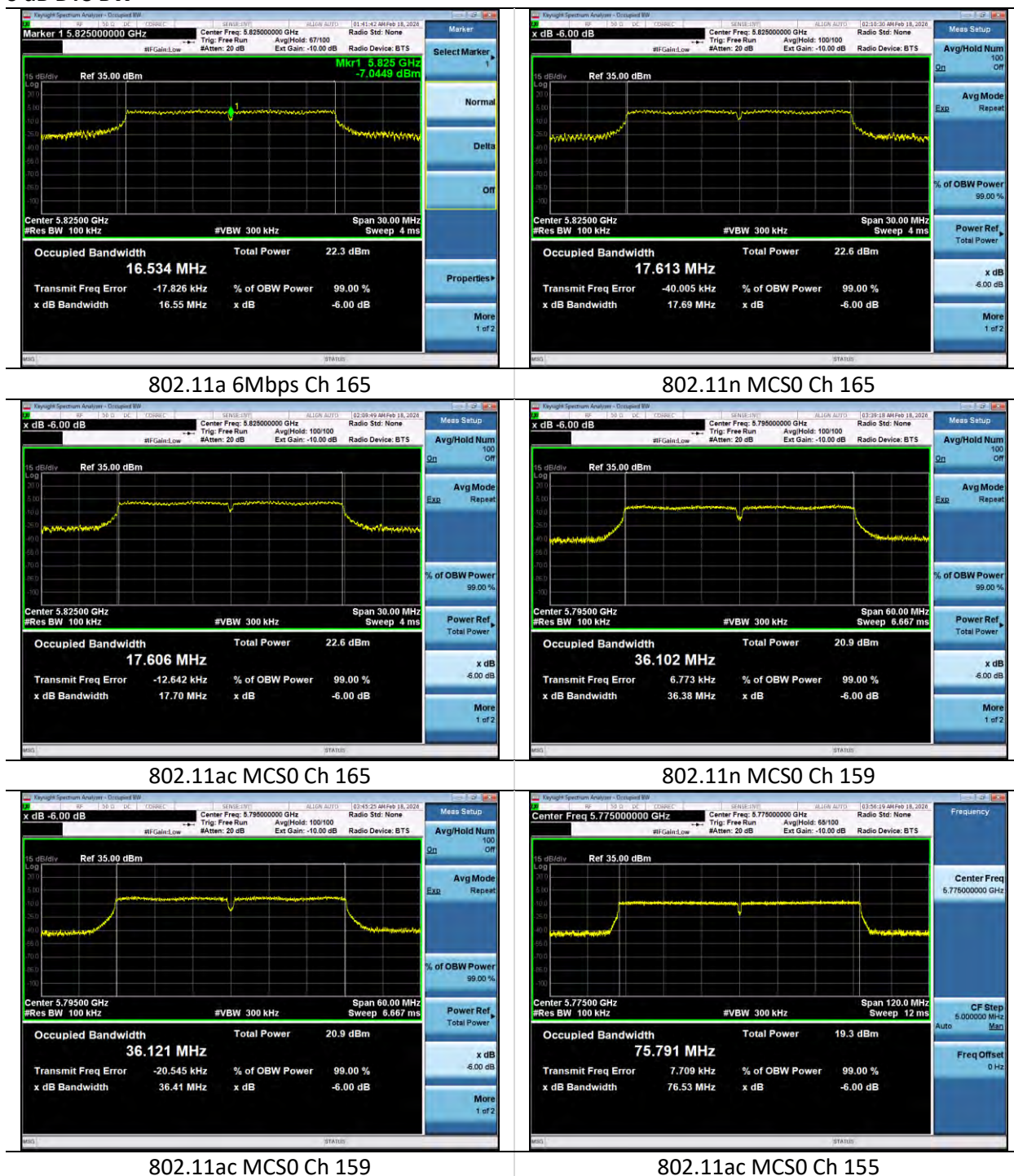
802.11ac MCS0 Ch 42

802.11ac MCS0 Ch 106



802.11ac MCS0 Ch 155

6 dB DTS BW



5.1.2 Output Power

Operator	Anthony Smith	QA	Dylan Rosenfeldt
Temperature	21.4, 22.3, 21.6	R.H. %	34.0, 36.6, 31.3
Test Date	2/17/2026, 2/18/2026, 2/19/2026	Location	Conducted RF Bench
Requirement	FCC 15.407 (a)(1)(2)(3) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Method	ANSI C63.10

Limits:

FCC

UNII 1: ≤ 250 mW

UNII 2A/2C: $\leq$ Lesser of 250 mW (24 dBm) or $11 \text{ dBm} + 10\log(26 \text{ dB BW})$

UNII 3: ≤ 1 W

IC

UNII 1: $\leq$ Lesser of 200 mW (23 dBm) or $10+10\log(26 \text{ dB BW})$

UNII 2A/2C: $\leq$ Lesser of 250 mW (23 dBm) or $10+10\log(26 \text{ dB BW})$

UNII 3: ≤ 1 W (30 dBm)

Test Parameters

Frequency	5150-5850 MHz	Setup	Conducted RF
RBW	1 MHz	VBW	3 MHz
Detector(s)	RMS	Trace	Average
Example Equations	Combined Output Power (dBm) = $10*\log(10^{(\text{Output Port Aux}/10)}+(10^{(\text{Output Power Main})/10}))$		

EUT Parameters

Input Power	3.3VDC	Mode	WLAN 5
Frequency	5180, 5200, 5240, 5500, 5580, 5745, 5825, 5230, 5590, 5755, 5290, 5610, 5775 MHz	Channel	36, 40, 48, 100, 116, 149, 165, 46, 118, 151, 58, 122, 155
Notes	Worst Case modes tested per original report		

Table

FCC

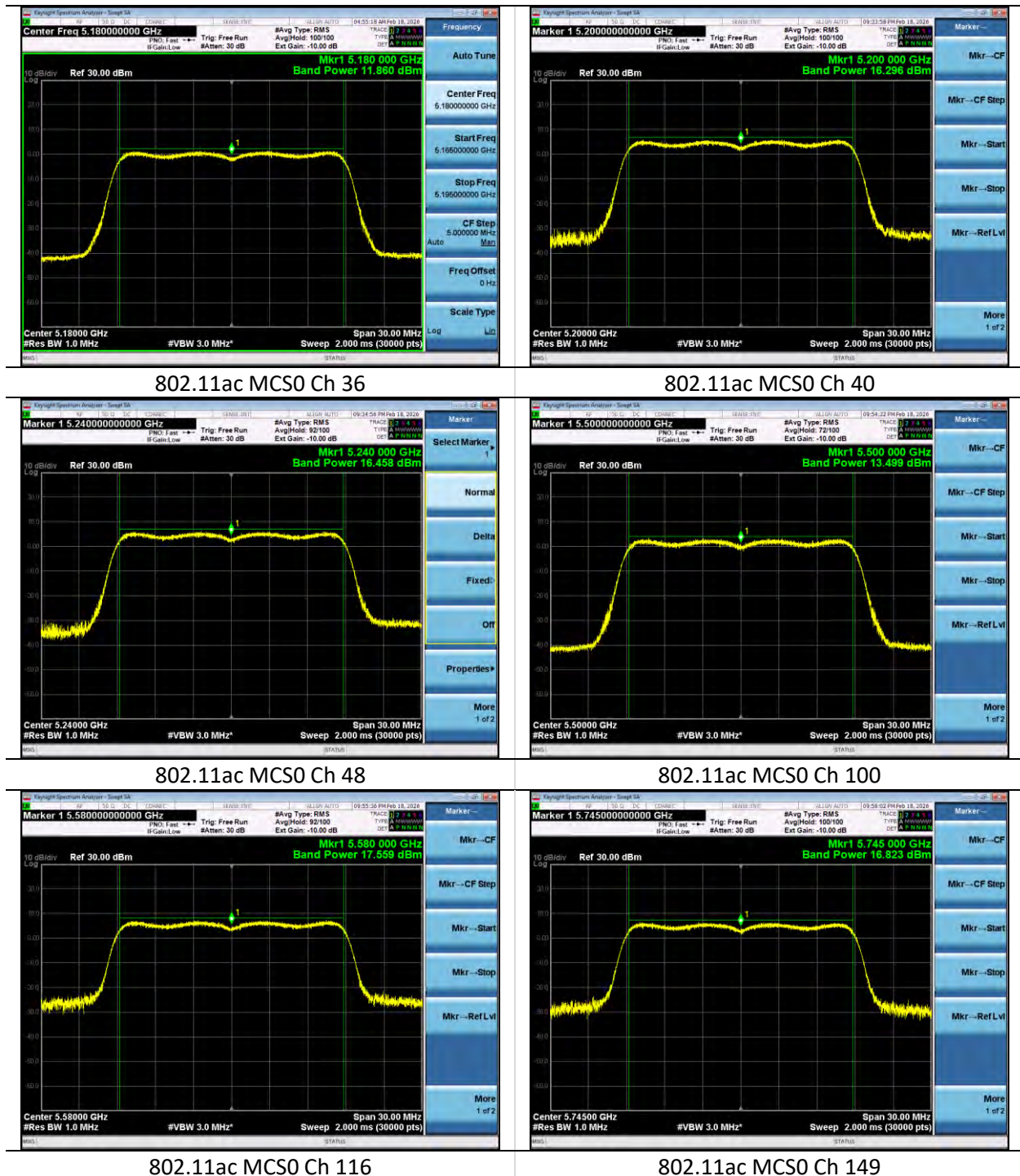
Nominal Bandwidth	Channel	Mode	Data Rate	Frequency (MHz)	Measured Output Power (dBm) Aux	Measured Output Power (dBm) Main	Combined Output Value (dBm)	Limit (dBm)	Margin (dB)
20	36	802.11ac	MCS0	5180	11.9	12.5	15.2	24.0	8.8
20	40	802.11ac	MCS0	5200	16.3	16.7	19.5	24.0	4.5
20	48	802.11ac	MCS0	5240	16.5	17.0	19.8	24.0	4.2
20	100	802.11ac	MCS0	5500	13.5	13.4	16.5	24.0	7.5
20	116	802.11ac	MCS0	5580	17.6	17.7	20.7	24.0	3.3
20	149	802.11ac	MCS0	5745	16.8	17.7	20.3	30.0	9.7
20	165	802.11ac	MCS0	5825	16.8	17.5	20.2	30.0	9.8
40	46	802.11ac	MCS0	5230	14.3	15.0	17.7	24.0	6.3
40	118	802.11ac	MCS0	5590	15.5	15.9	18.7	24.0	5.3
40	151	802.11ac	MCS0	5755	15.1	15.7	18.4	30.0	11.6
80	58	802.11ac	MCS0	5290	10.1	10.7	13.4	24.0	10.6
80	122	802.11ac	MCS0	5610	14.3	14.7	17.5	24.0	6.5
80	155	802.11ac	MCS0	5775	14.1	14.6	17.4	30.0	12.6

IC

Nominal Bandwidth	Channel	Mode	Data Rate	Frequency (MHz)	Measured Output Power (dBm) Aux	Measured Output Power (dBm) Main	Combined Output Value (dBm)	Limit (dBm)	Margin (dB)
20	36	802.11ac	MCS0	5180	11.9	12.5	15.2	23.0	7.8
20	40	802.11ac	MCS0	5200	16.3	16.7	19.5	23.0	3.5
20	48	802.11ac	MCS0	5240	16.5	17.0	19.8	23.0	3.2
20	100	802.11ac	MCS0	5500	13.5	13.4	16.5	24.0	7.5
20	116	802.11ac	MCS0	5580	17.6	17.7	20.7	24.0	3.3
20	149	802.11ac	MCS0	5745	16.8	17.7	20.3	30.0	9.7
20	165	802.11ac	MCS0	5825	16.8	17.5	20.2	30.0	9.8
40	46	802.11ac	MCS0	5230	14.3	15.0	17.7	23.0	5.3
40	118	802.11ac	MCS0	5590	15.5	15.9	18.7	24.0	5.3
40	151	802.11ac	MCS0	5755	15.1	15.7	18.4	30.0	11.6
80	58	802.11ac	MCS0	5290	10.1	10.7	13.4	24.0	10.6
80	122	802.11ac	MCS0	5610	14.3	14.7	17.5	24.0	6.5
80	155	802.11ac	MCS0	5775	14.1	14.6	17.4	30.0	12.6

Plots

Aux Port



Company: Ezurio LLC

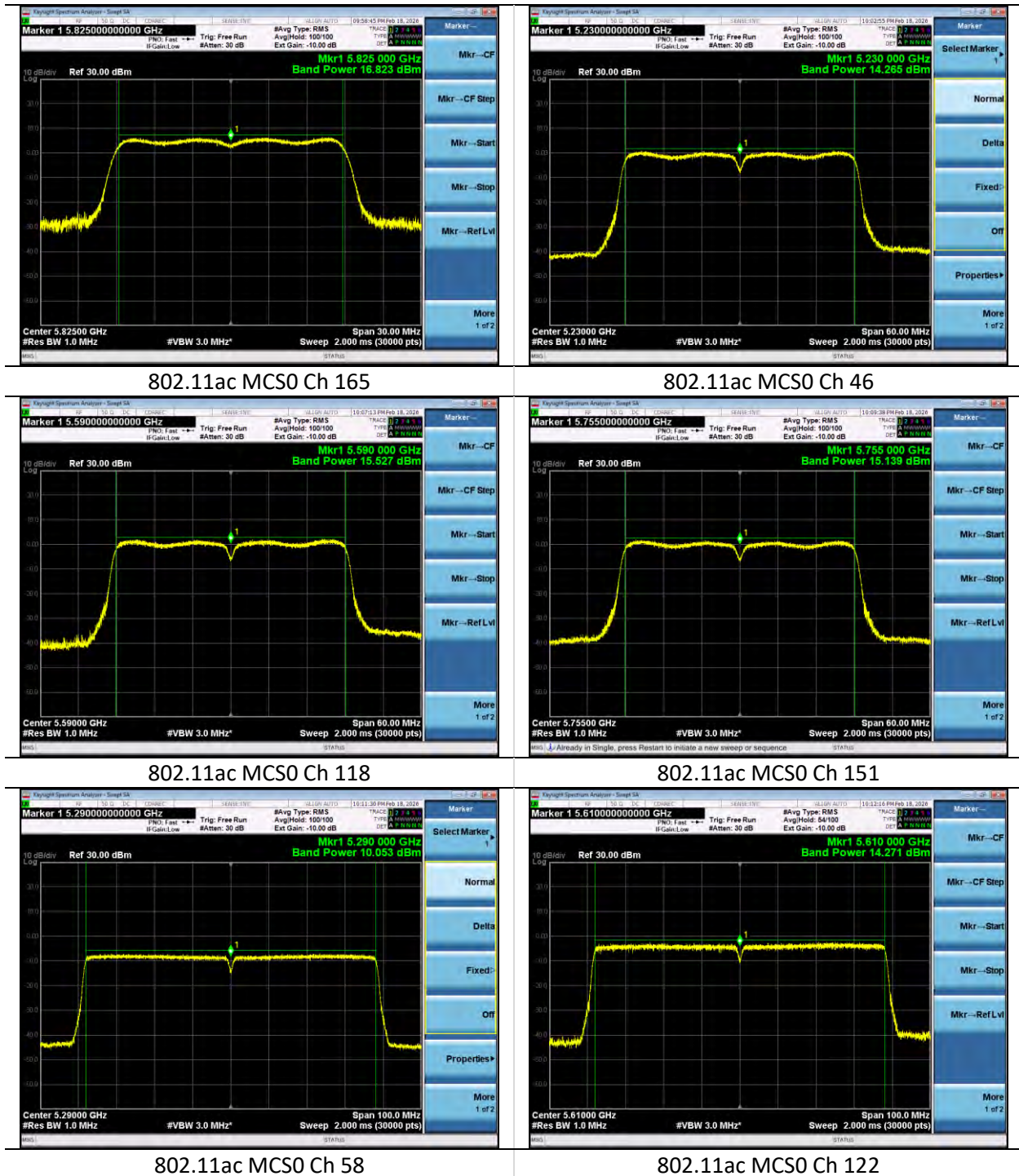
Report: TR3959B

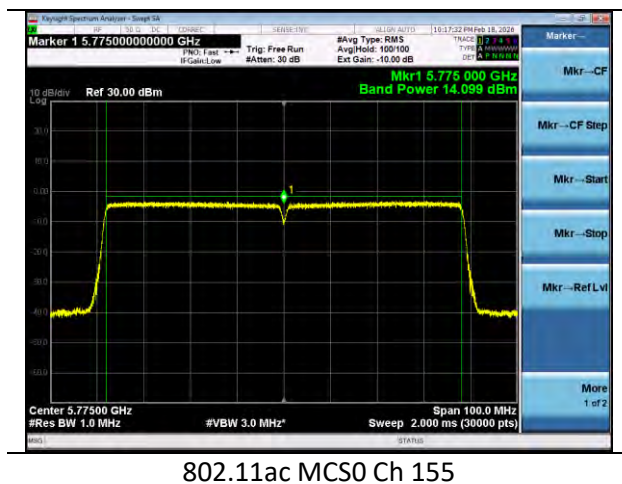
Job: C-3959

Name: 802.11ac Professional Wi-Fi + BT5.0 Module

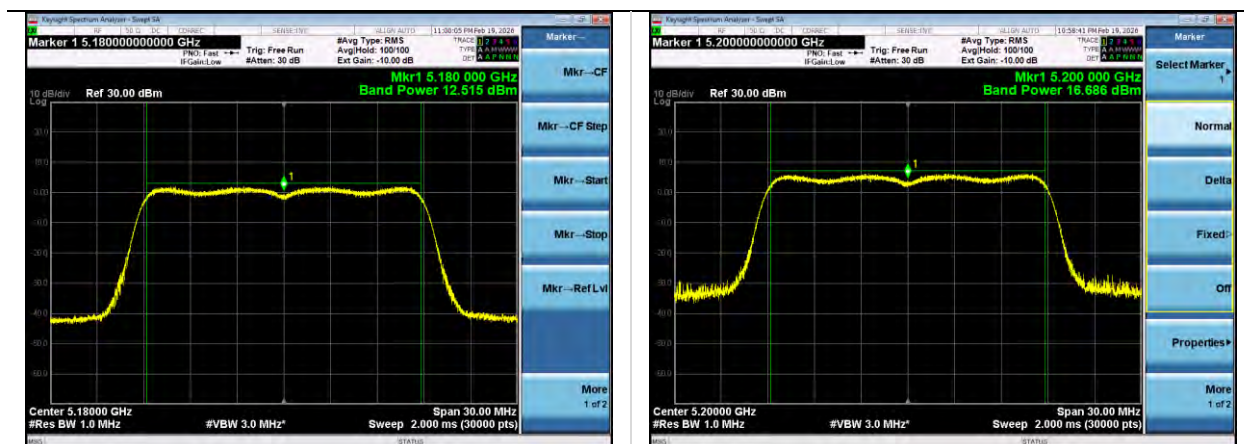
Model: SU60-SOMC (453-00003)

Serial: 5302203735, 5302203734



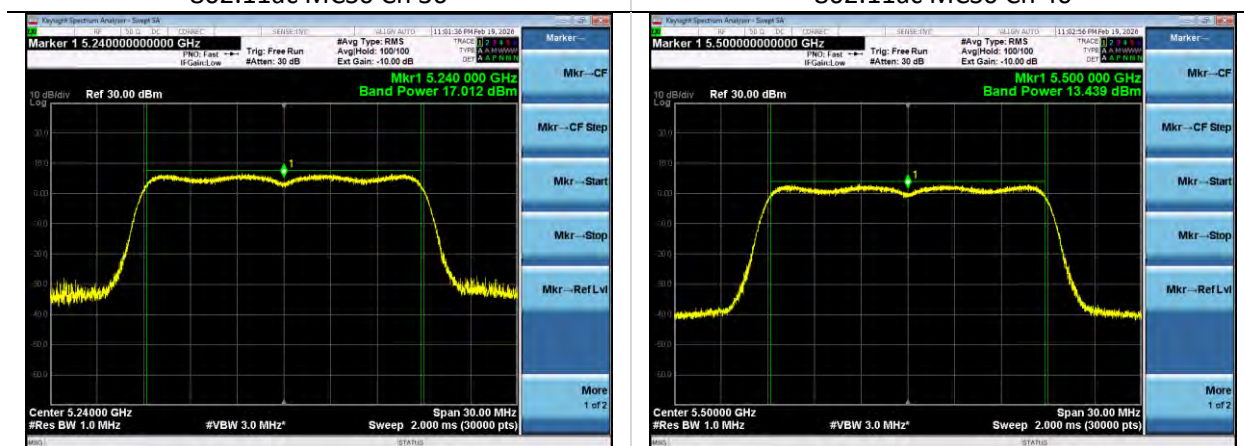


Main Port



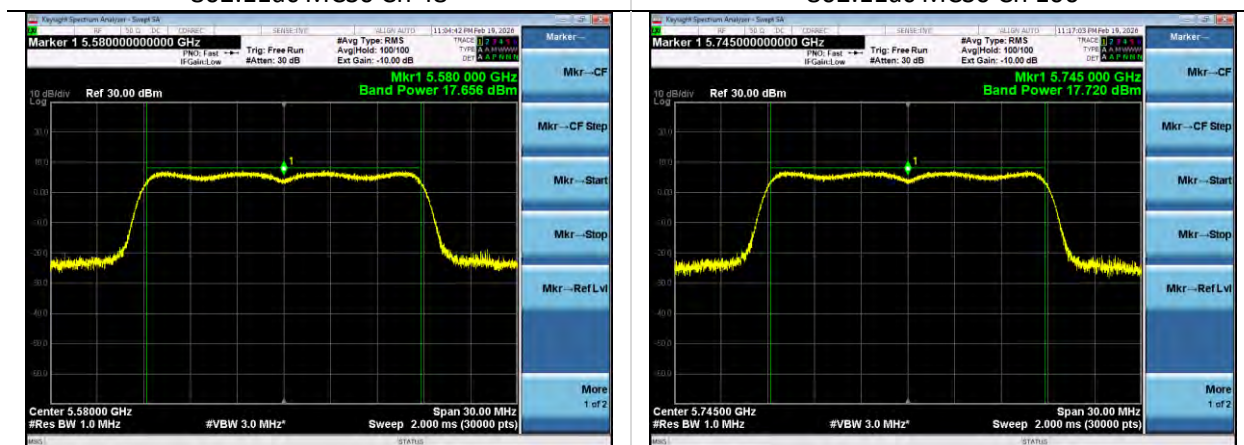
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802.11ac MCS0 Ch 40



802.11ac MCS0 Ch 48

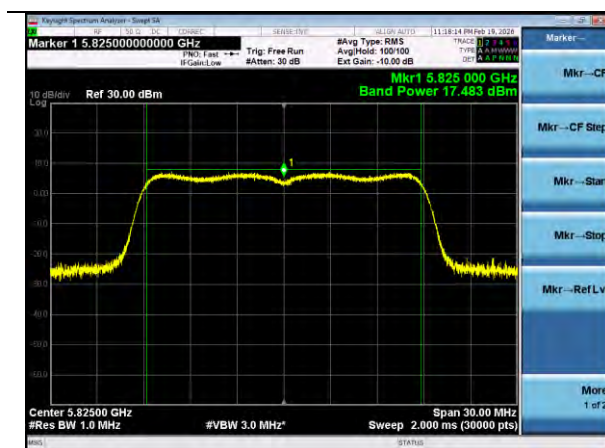
802.11ac MCS0 Ch 100



802.11ac MCS0 Ch 116

802.11ac MCS0 Ch 149

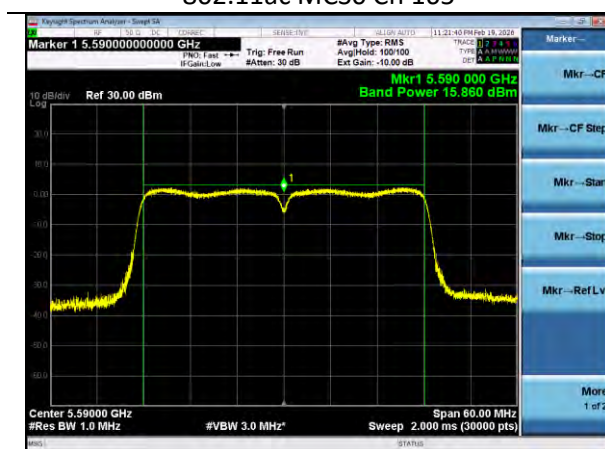
Company: Ezurio LLC	Page 24 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734



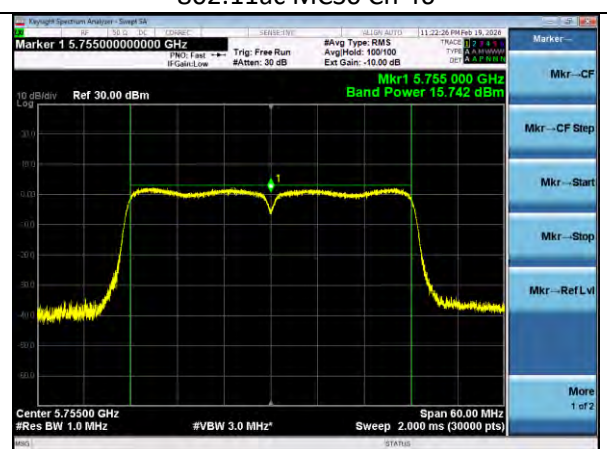
802.11ac MCS0 Ch 165



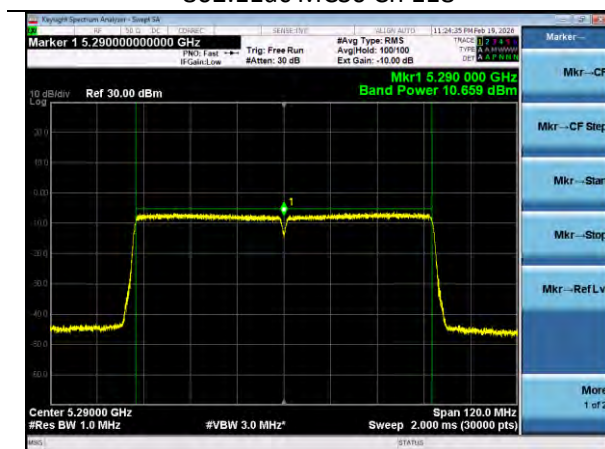
802.11ac MCS0 Ch 46



802.11ac MCS0 Ch 118



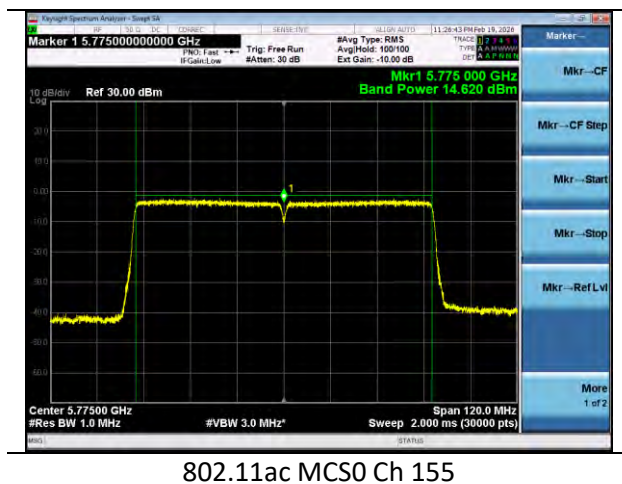
802.11ac MCS0 Ch 151



802.11ac MCS0 Ch 58



802.11ac MCS0 Ch 122



Company: Ezurio LLC	Page 26 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734

5.1.3 Power Spectral Density

Operator	Anthony Smith	QA	Dylan Rosenfeldt
Temperature	21.4, 22.3, 21.6	R.H. %	34.0, 36.6, 31.3
Test Date	2/17/2026, 2/18/2026, 2/19/2026	Location	Conducted RF Bench
Requirement	FCC 15.407 (a)(1)(2)(3) RSS-247 § 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Method	ANSI C63.10

Limits:

FCC

UNII 1/2A/2C: 11 dBm/MHz

UNII 3: 30 dBm/500 kHz

IC

UNII 1: 10 dBm/MHz

UNII 2A/2C: 11 dBm/MHz

UNII 3: 30 dBm/500 kHz

Test Parameters

Frequency	5150-5850 MHz	Setup	Conducted RF
RBW	1 MHz (UNII 1, 2A, 2C) 510 kHz (UNII 3)	VBW	3 MHz
Detector(s)	Average	Trace	Average

EUT Parameters

Input Power	3.3VDC	Mode	WLAN 5
Frequency	5240, 5300, 5580, 5785, 5240 5300, 5720, 5825, 5230, 5270, 5710, 5795, 5210, 5290, 5690, 5775	Channel	48, 60, 116, 144, 157, 165, 46, 54, 142, 159, 42, 58, 138, 155

Table

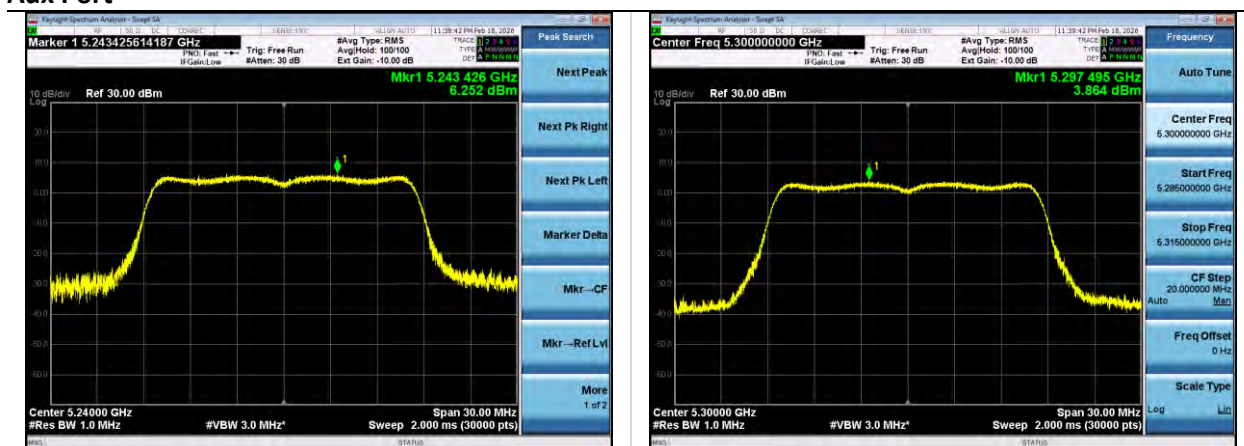
FCC

Nominal Bandwidth	Channel	Mode	Data Rate	Frequency (MHz)	Measured PSD (dBm/MHz) Aux Port	Measured PSD (dBm/MHz) Main Port	Combined PSD Value (dBm/MHz)	Limit (dBm/RBW)	Margin (dB)
20	48	802.11a	6Mbps	5240	6.3	6.8	9.6	11.0	1.4
20	60	802.11a	6Mbps	5300	3.9	4.5	7.2	11.0	3.8
20	116	802.11a	6Mbps	5580	7.2	7.7	10.5	11.0	0.5
20	157	802.11a	6Mbps	5785	3.5	4.1	6.8	30.0	23.2
20	48	802.11ac	MCS0	5240	5.9	6.8	9.4	11.0	1.6
20	60	802.11ac	MCS0	5300	3.6	4.3	7.0	11.0	4.0
20	144	802.11ac	MCS0	5720	7.0	7.7	10.4	11.0	0.6
20	165	802.11ac	MCS0	5825	3.4	4.0	6.7	30.0	23.3
40	46	802.11ac	MCS0	5230	0.9	1.9	4.4	11.0	6.6
40	54	802.11ac	MCS0	5270	-0.1	0.7	3.3	11.0	7.7
40	142	802.11ac	MCS0	5710	2.7	3.2	6.0	11.0	5.0
40	159	802.11ac	MCS0	5795	-1.4	-0.8	1.9	30.0	28.1
80	42	802.11ac	MCS0	5210	-7.9	-7.1	-4.5	11.0	15.5
80	58	802.11ac	MCS0	5290	-6.8	-6.2	-3.5	11.0	14.5
80	138	802.11ac	MCS0	5690	-2.3	-1.6	1.1	11.0	9.9
80	155	802.11ac	MCS0	5775	-6.0	-5.3	-2.6	30.0	32.6

IC

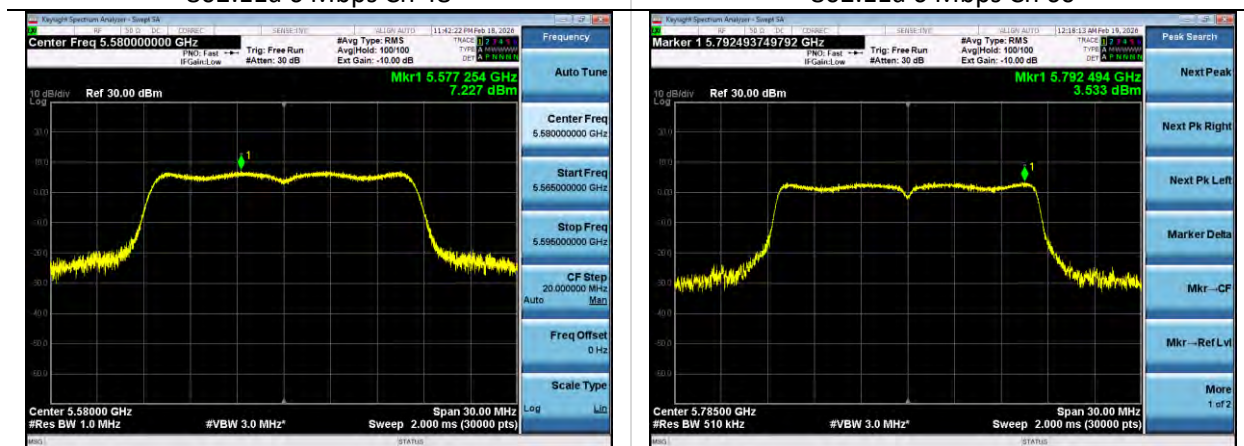
Nominal Bandwidth	Channel	Mode	Data Rate	Frequency (MHz)	Measured PSD (dBm/MHz) Aux Port	Measured PSD (dBm/MHz) Main Port	Combined PSD Value (dBm/MHz)	Limit (dBm/RBW)	Margin (dB)
20	48	802.11a	6Mbps	5240	6.3	6.8	9.6	10.0	0.4
20	60	802.11a	6Mbps	5300	3.9	4.5	7.2	11.0	3.8
20	116	802.11a	6Mbps	5580	7.2	7.7	10.5	11.0	0.5
20	157	802.11a	6Mbps	5785	3.5	4.1	6.8	30.0	23.2
20	48	802.11ac	MCS0	5240	5.9	6.8	9.4	10.0	0.6
20	60	802.11ac	MCS0	5300	3.6	4.3	7.0	11.0	4.0
20	144	802.11ac	MCS0	5720	7.0	7.7	10.4	11.0	0.6
20	165	802.11ac	MCS0	5825	3.4	4.0	6.7	30.0	23.3
40	46	802.11ac	MCS0	5230	0.9	1.9	4.4	10.0	5.6
40	54	802.11ac	MCS0	5270	-0.1	0.7	3.3	11.0	7.7
40	142	802.11ac	MCS0	5710	2.7	3.2	6.0	11.0	5.0
40	159	802.11ac	MCS0	5795	-1.4	-0.8	1.9	30.0	28.1
80	42	802.11ac	MCS0	5210	-7.9	-7.1	-4.5	10.0	14.5
80	58	802.11ac	MCS0	5290	-6.8	-6.2	-3.5	11.0	14.5
80	138	802.11ac	MCS0	5690	-2.3	-1.6	1.1	11.0	9.9
80	155	802.11ac	MCS0	5775	-6.0	-5.3	-2.6	30.0	32.6

Plots Aux Port



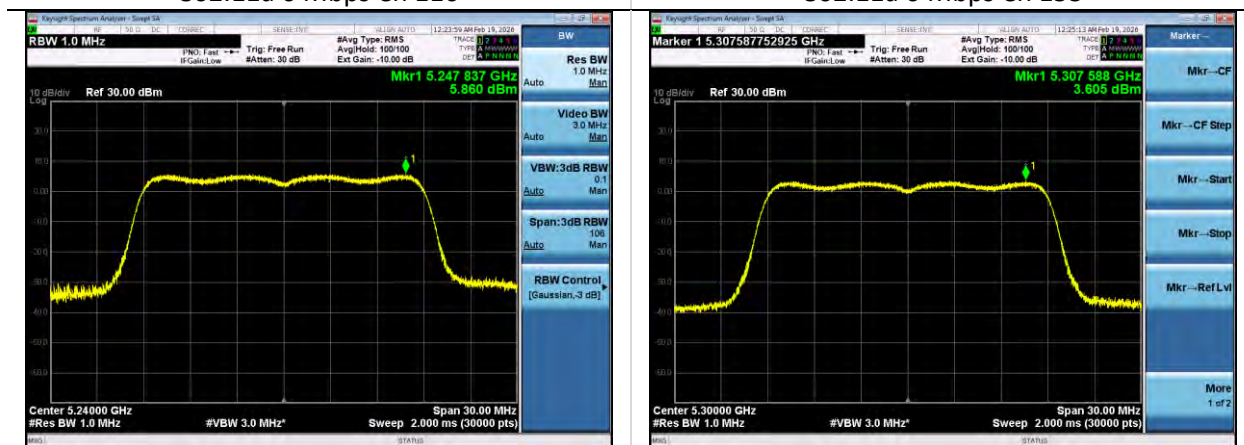
802.11a 6 Mbps Ch 48

802.11a 6 Mbps Ch 60



802.11a 6 Mbps Ch 116

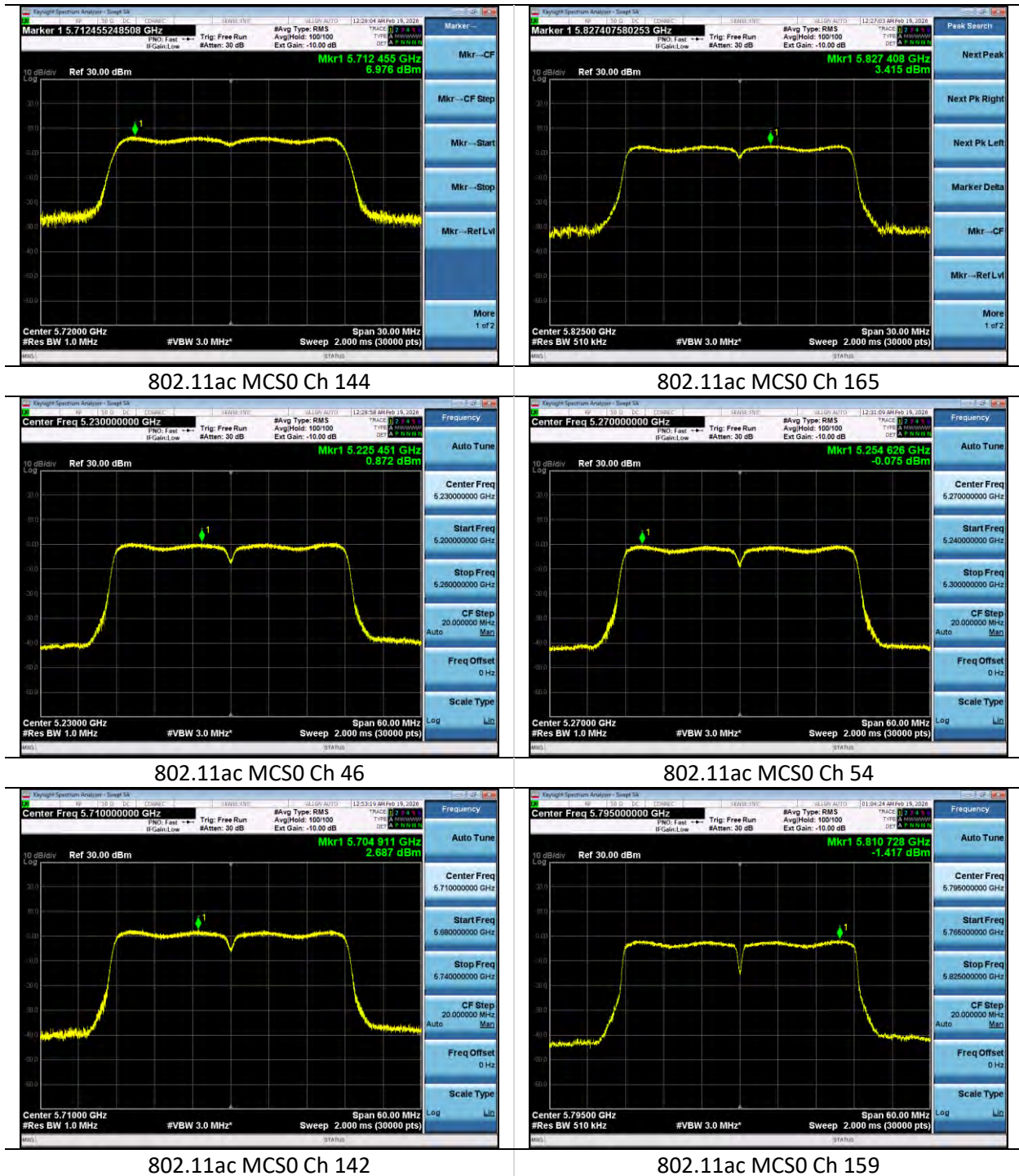
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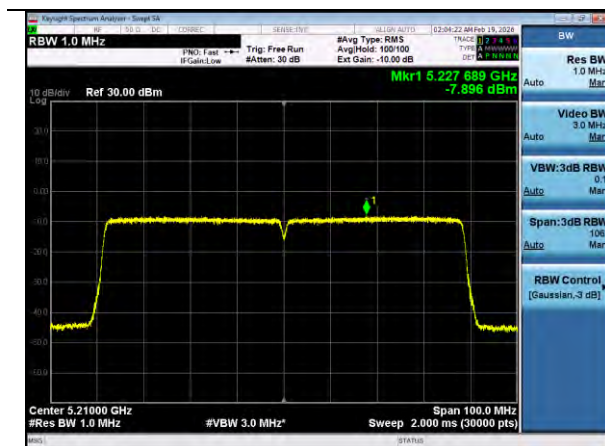


802.11ac MCS0 Ch 48

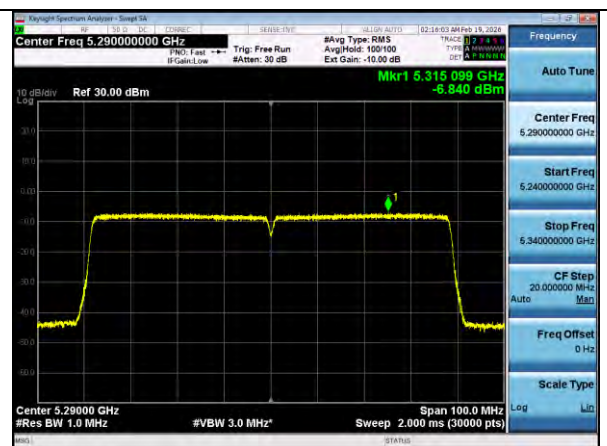
802.11ac MCS0 Ch 60

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Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734





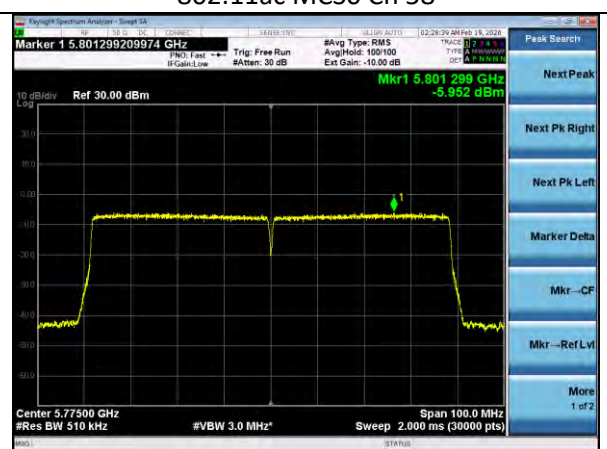
802.11ac MCS0 Ch 42



802.11ac MCS0 Ch 58

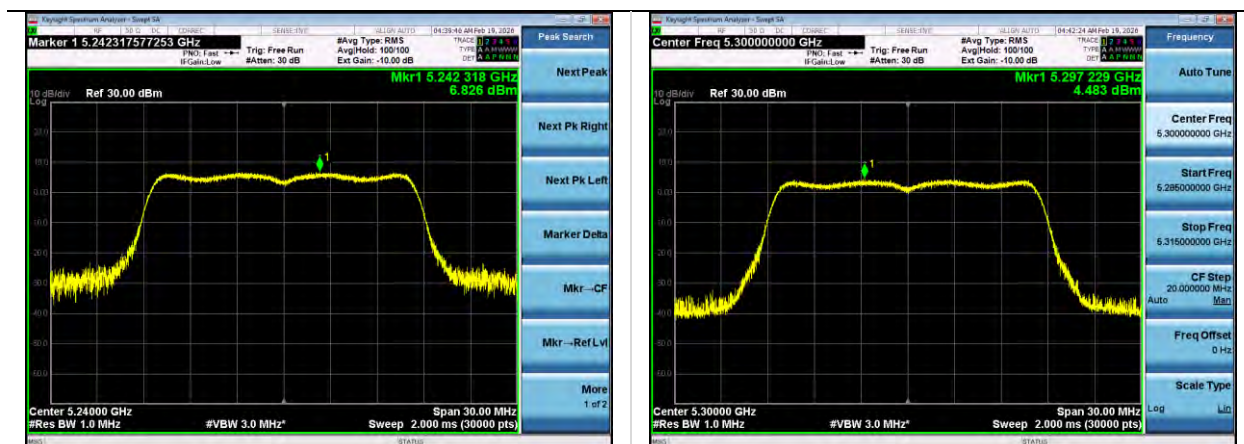


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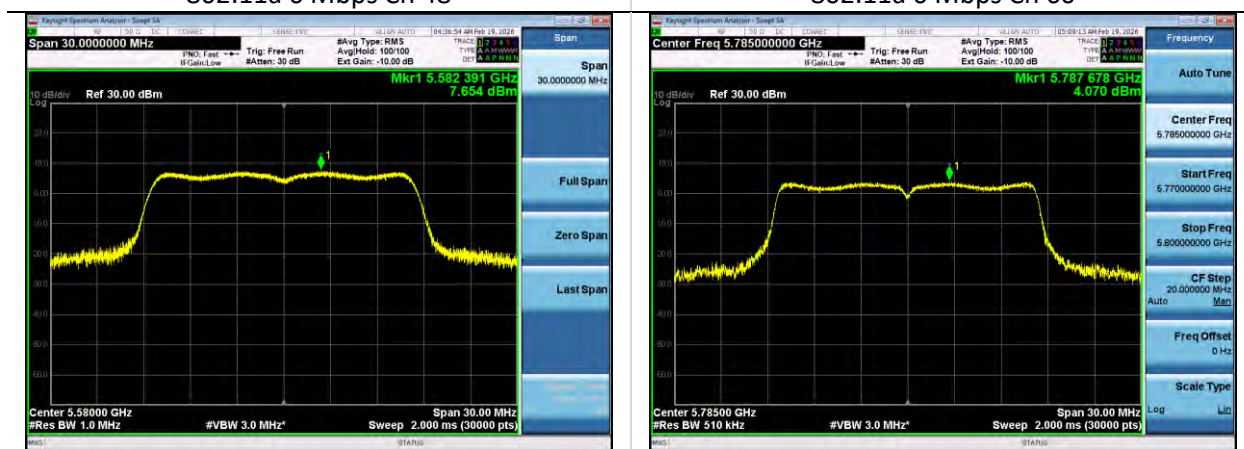
802.11ac MCS0 Ch 155

Main Port



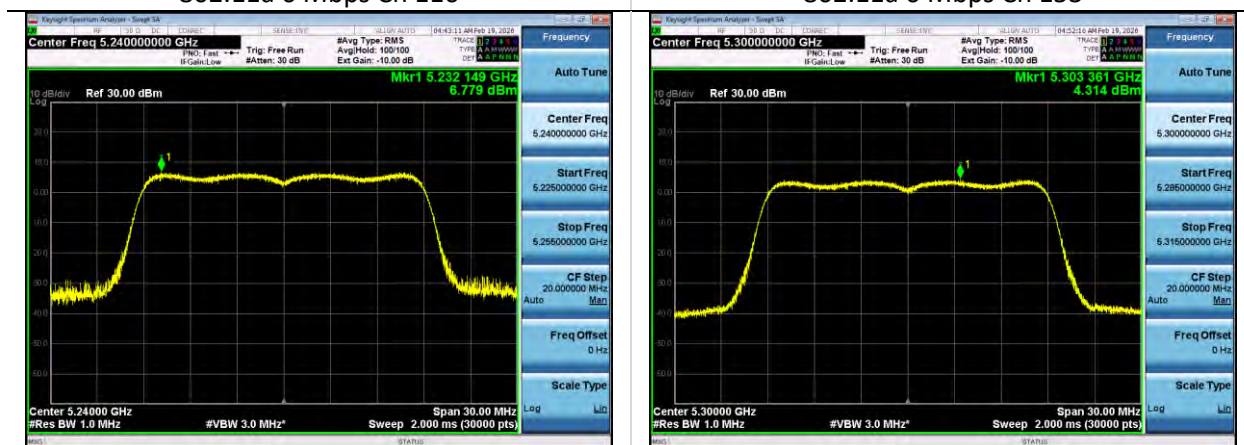
802.11a 6 Mbps Ch 48

802.11a 6 Mbps Ch 60



802.11a 6 Mbps Ch 116

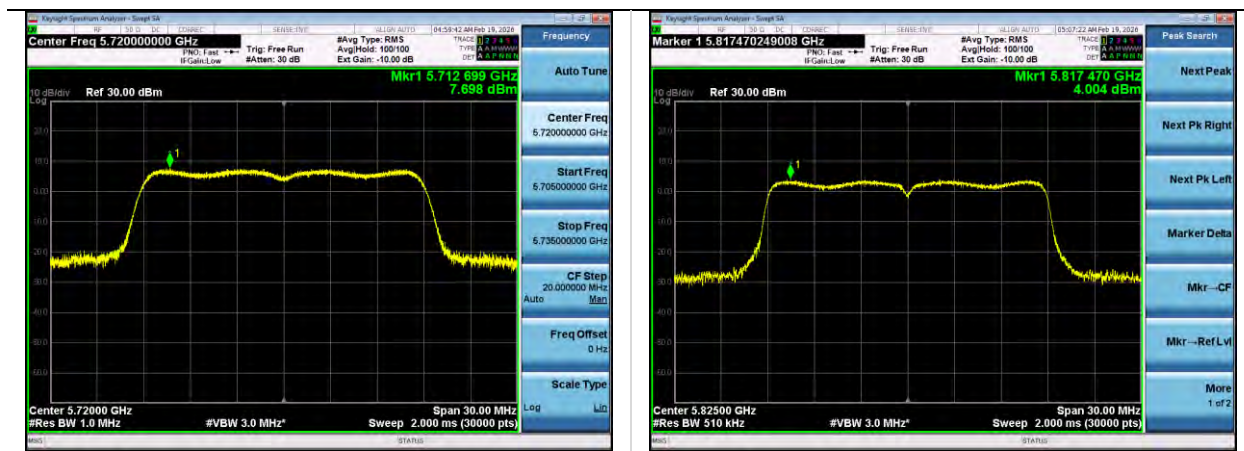
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802.11ac MCS0 Ch 48

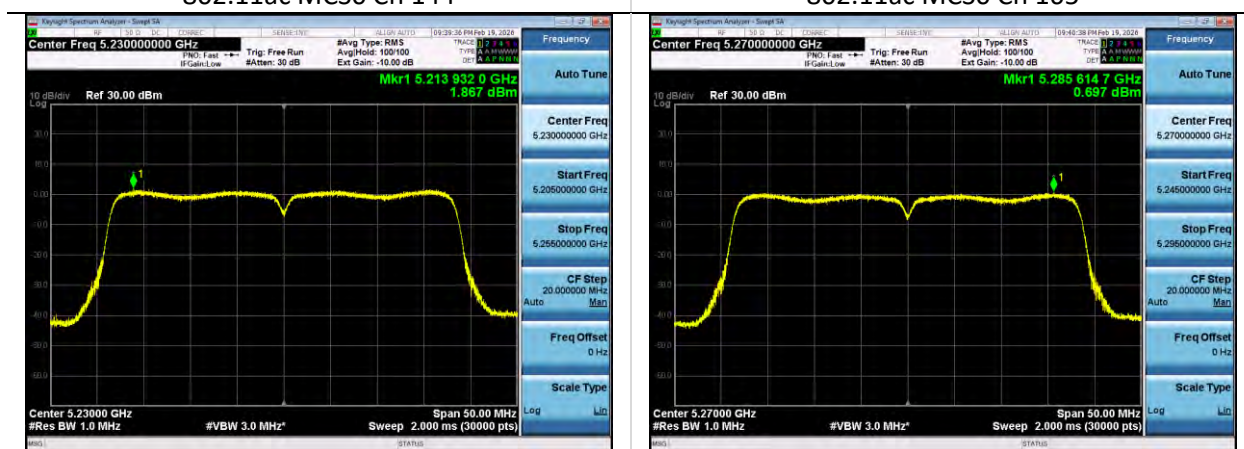
802.11ac MCS0 Ch 60

Company: Ezurio LLC	Page 33 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734



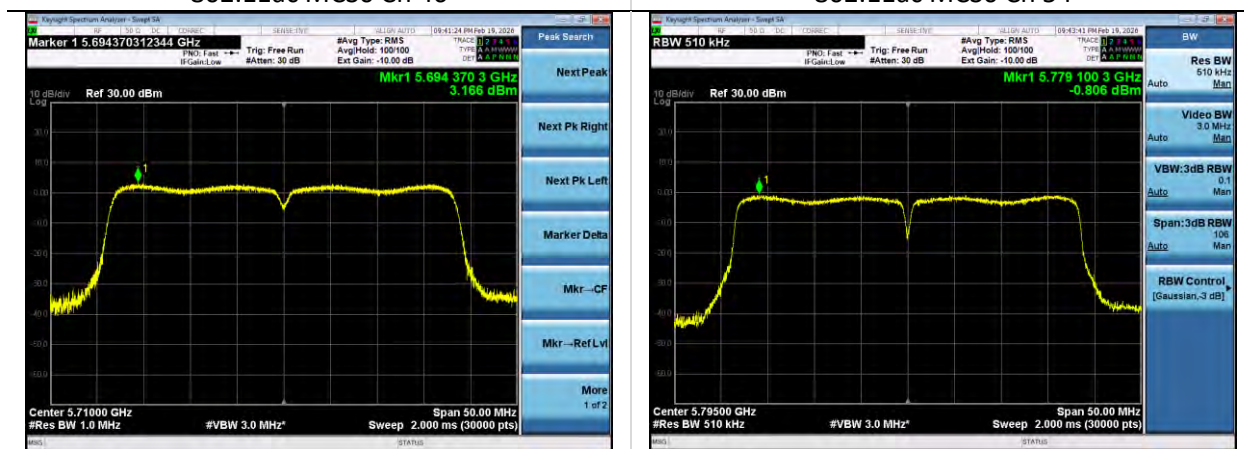
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802.11ac MCS0 Ch 165



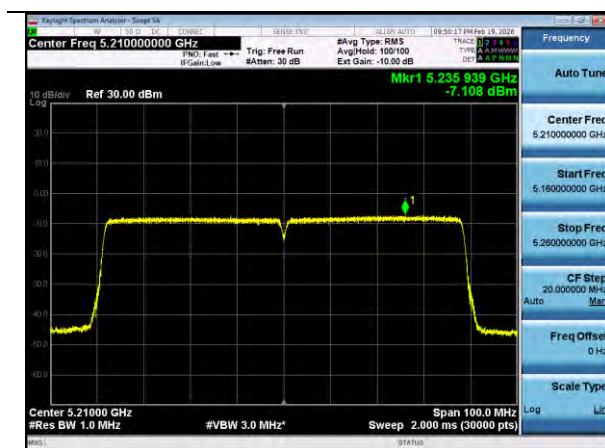
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802.11ac MCS0 Ch 54

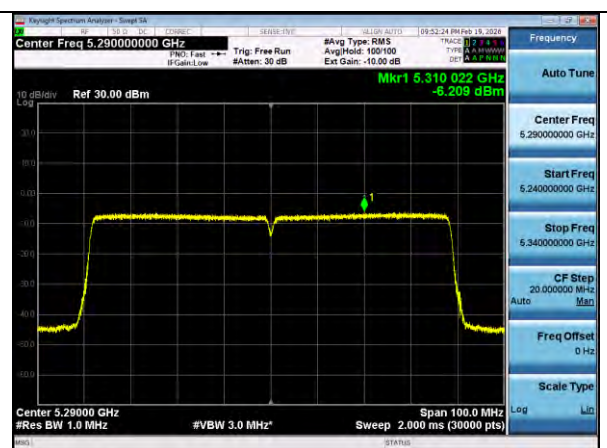


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802.11ac MCS0 Ch 159



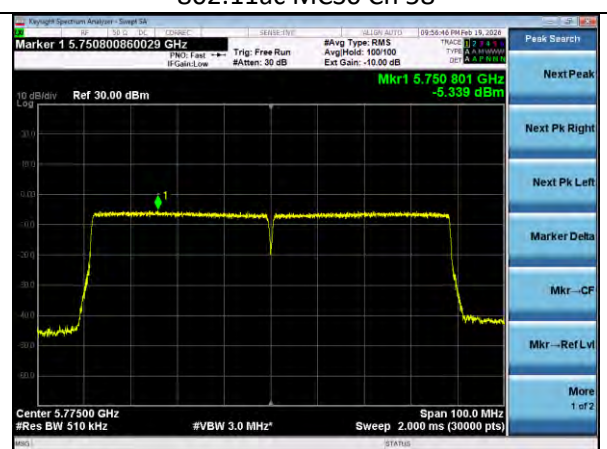
802.11ac MCS0 Ch 42



802.11ac MCS0 Ch 58



802.11ac MCS0 Ch 138



802.11ac MCS0 Ch 155

5.2 Radiated Emissions

Description of Measurement	The frequency spectrum is investigated for intentional and / or unintentional signals emanating from the EUT by use of a standardized test site and measurement antenna. The antenna, cable, pre-amp, and other necessary measurement system correction factors are loaded onto the EMI receiver / spectrum analyzer when the measurements are performed allowing the data to be gathered and reported as corrected values. The maximum emissions from the EUT are determined by turn-table azimuth rotation (360°) and scanning of the measurement antenna. Maximized levels are noted at degree values of azimuth, measurement antenna height, and measurement antenna polarity.
Example Calculations	Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m) Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m) Example at 4000 MHz: Reading = 40 dBμV + 3.4 dB + 0.9 dB + 6.5 dB/m = 50.8 dBμV/m Average Limit = 20 log (500) = 54 dBμV/m Margin = 54 dBμV/m - 50.8 dBμV/m = 3.2 dB

Block Diagram



5.2.1 Radiated Emissions

Operator	Marcos Pineda	QA	Dylan Rosenfeldt
Temperature	21.1-23.8 C	R.H. %	21.7-33.3%
Test Date	2/20/26 - 3/3/2026	Location	Chamber 5
Requirement	FCC 15.407(b), 15.209 RSS-247 § 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4, RSS-Gen § 6.13	Method	ANSI C63.10

Limits:

Restricted Bands Limit:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

Non-Restricted Bands above 1 GHz Limit:

Operating Band	Limit
5.15-5.25 GHz	e.i.r.p. -27 dBm (68.2 dBμV/m @ 3m)
5.25-5.35 GHz	e.i.r.p. -27 dBm (68.2 dBμV/m @ 3m)
5.47-5.725 GHz	e.i.r.p. -27 dBm (68.2 dBμV/m @ 3m)
5.725-5.85 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Parameters

Frequency	30-40000 MHz	Distance	3m
Detector(s)	Peak, Avg – Above 1 GHz QP – Below 1 GHz	Table height	80cm Below 1 GHz 150cm Above 1 GHz
RBW	120 kHz Below 1 GHz 1 MHz Above 1 GHz	VBW	1.2 MHz Below 1 GHz 3 MHz Above 1 GHz (Peak) 30 Hz Above 1 GHz (Avg)

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	9/24/2025	9/24/2026	Active Calibration
AA 960161	Filter - Highpass 5 GHz	K&L Microwave	11SH10-8000	2	4/3/2025	4/3/2026	Active Calibration
AA 960162	Cable	MegaPhase	EM2-S1S1-120	51503501001	2/12/2026	2/12/2027	Active Verification
AA 960163	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	500	10/8/2025	10/8/2026	Active Calibration
AA 960174	Antenna - Small Horn	ETS Lindgren	3116C-PA	00206880	10/7/2025	10/7/2026	Active Calibration
AA 960194	Antenna - Biconical	A.H. Systems, Inc.	SAS-540	780	10/9/2025	10/9/2026	Active Calibration
AA 960209	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	9/24/2025	9/24/2026	Active Calibration
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/3/2025	4/3/2026	Active Calibration
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration
LSC-500	Cable	Chamber 5 Emissions	-	-	2/12/2026	2/12/2027	Active Verification
LSC-546	Cable	A.H. Systems, Inc.	SAC-26G-6	546	2/12/2026	2/12/2027	Active Verification

EUT Parameters

Input Power	3.3VDC	Mode	WLAN 5
Channels	36, 38, 42, 58, 62, 64, 100, 102, 106, 149, 151, 155, 159, 165	Modulation	802.11a 6 Mbps, 802.11ac MCS0

Table

Spurious Below 1 GHz (Orientation 1)

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Quasi-Peak Reading (dBμV/m)	Quasi-Peak Limit (dBμV/m)	Quasi-Peak Margin (dB)	Modulation	Data Rate	Channel
185.0	H	100	360	23.8	43.5	19.7	802.11a	6 Mbps	100
100.0	V	100	360	17.7	43.5	25.8	802.11a	6 Mbps	100
790.0	H	100	0	28.7	46.0	17.3	802.11a	6 Mbps	100
570.0	H	150	0	27.0	46.0	19.0	802.11a	6 Mbps	100
746.0	V	100	360	28.7	46.0	17.3	802.11a	6 Mbps	100
263.0	V	100	360	29.2	46.0	16.8	802.11a	6 Mbps	100

Spurious Above 1 GHz

Spurious Emissions – Peak

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Peak Reading (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	Modulation	Data Rate	EUT Orientation	Channel
11002.0	H	203	32	52.0	74.0	22.0	802.11a	6 Mbps	2	100
11651.0	H	207	353	59.4	74.0	14.6	802.11a	6 Mbps	2	165
15540.0	V	180	12	55.0	74.0	19.0	802.11a	6 Mbps	2	36

Spurious Emissions – Average

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Modulation	Data Rate	EUT Orientation	Channel
11002.0	H	203	32	39.0	54.0	15.0	802.11a	6 Mbps	2	100
11651.0	H	207	353	47.2	54.0	6.8	802.11a	6 Mbps	2	165
15540.0	V	180	12	42.8	54.0	11.2	802.11a	6 Mbps	2	36

Band Edge – Peak

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Peak Reading (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	Modulation	Data Rate	EUT Orientation	Channel
5148.4	H	262	323	56.1	68.2	12.1	802.11a	6 Mbps	2	36
5459.0	H	287	305	57.8	68.2	10.4	802.11ac	MCS0	3	100
5463.4	H	287	305	61.2	68.2	7.0	802.11ac	MCS0	3	100
5456.2	H	287	305	57.0	68.2	11.2	802.11a	6 Mbps	3	100
5469.1	H	287	305	62.0	68.2	6.2	802.11a	6 Mbps	3	100
5141.2	H	262	323	55.6	74.0	18.4	802.11ac	MCS0	2	36
5147.6	H	285	315	56.8	68.2	11.4	802.11ac	MCS0	3	38
5148.9	H	261	318	56.4	74.0	17.6	802.11ac	MCS0	3	42
5381.7	H	272	312	56.7	68.2	11.5	802.11a	6 Mbps	3	64
5389.7	H	265	314	56.8	74.0	17.2	802.11a	6 Mbps	3	64
5350.2	H	269	316	59.1	74.0	14.9	802.11ac	MCS0	3	62
5352.3	H	271	314	59.6	74.0	14.4	802.11ac	MCS0	3	58
5454.7	H	266	301	58.1	74.0	15.9	802.11ac	MCS0	3	102
5459.9	H	297	301	60.6	68.2	7.6	802.11ac	MCS0	3	106
5466.3	H	297	301	60.6	68.2	7.6	802.11ac	MCS0	3	106
5468.6	H	265	301	61.0	68.2	7.2	802.11ac	MCS0	3	102
5722.4	H	296	284	80.2	116.3	36.1	802.11a	6 Mbps	3	149
5725.0	H	223	290	78.4	122.2	43.8	802.11ac	MCS0	3	149
5721.6	H	190	154	68.7	114.4	45.7	802.11ac	MCS0	1	151
5722.1	H	165	161	67.5	115.6	48.1	802.11ac	MCS0	1	155
5851.4	H	291	293	63.5	119.0	55.5	802.11ac	MCS0	3	159
5853.4	H	271	285	75.2	114.4	39.2	802.11ac	MCS0	3	165
5851.8	H	278	287	76.8	118.1	41.3	802.11a	6 Mbps	3	165
5852.7	H	165	161	64.6	116.0	51.4	802.11ac	MCS0	1	155

Band Edge – Average

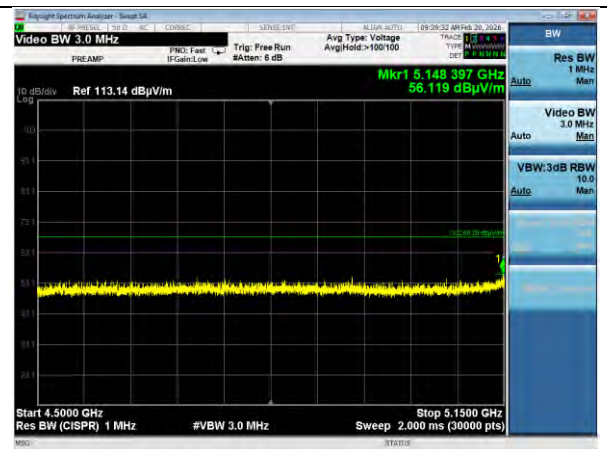
Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Modulation	Data Rate	EUT Orientation	Channel
5150.0	H	262	323	45.7	54.0	8.3	802.11a	6 Mbps	2	36
5460.0	H	287	305	45.7	54.0	8.3	802.11ac	MCS0	3	100
5459.9	H	287	305	45.4	54.0	8.6	802.11a	6 Mbps	3	100
5149.7	H	262	323	44.1	54.0	9.9	802.11ac	MCS0	2	36
5150.0	H	285	315	45.9	54.0	8.1	802.11ac	MCS0	3	38
5150.0	H	261	318	46.0	54.0	8.0	802.11ac	MCS0	3	42
5350.2	H	272	312	44.4	54.0	9.6	802.11ac	MCS0	3	64
5352.6	H	265	314	44.3	54.0	9.7	802.11a	6 Mbps	3	64
5350.0	H	269	316	47.2	54.0	6.8	802.11ac	MCS0	3	62
5352.4	H	271	314	48.2	54.0	5.8	802.11ac	MCS0	3	58
5460.0	H	266	301	46.1	54.0	7.9	802.11ac	MCS0	3	102
5456.1	H	297	301	47.7	54.0	6.3	802.11ac	MCS0	3	106

Plots

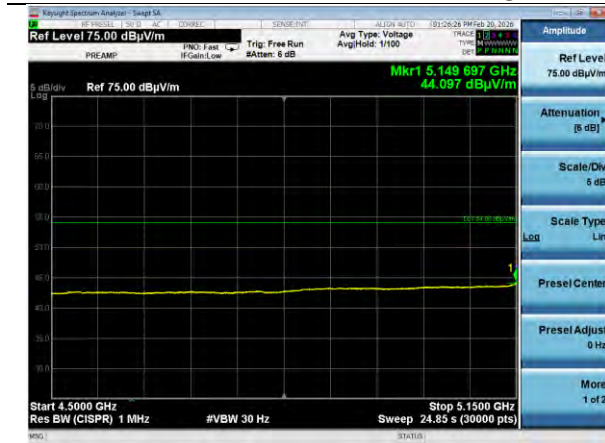
Band Edge



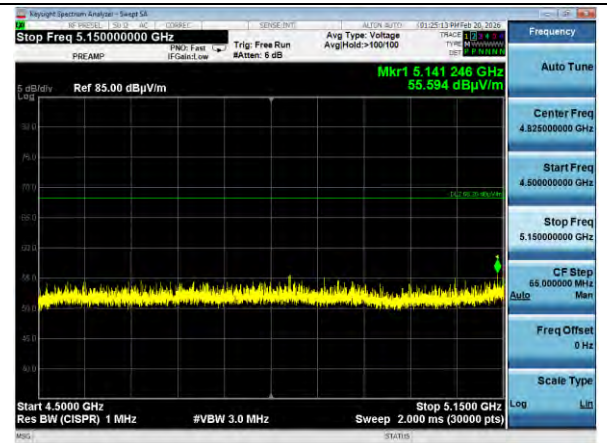
802.11a 6 Mbps Ch 36 Orientation 2
Horizontal 4500-5150 MHz Average



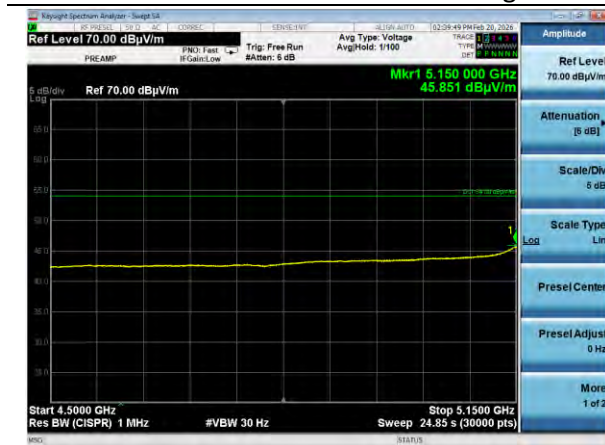
802.11a 6 Mbps Ch 36 Orientation 2
Horizontal 4500-5150 MHz Peak



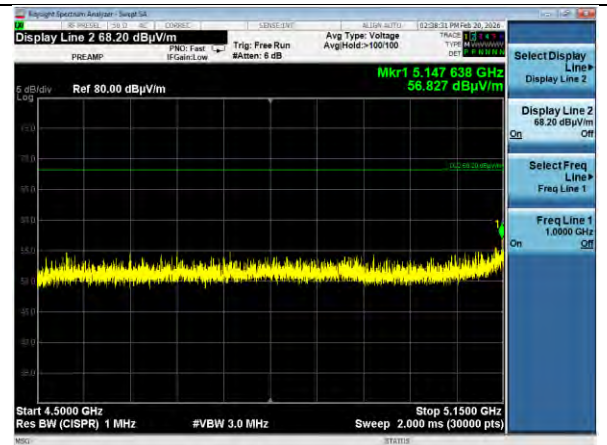
802.11ac MCS0 Ch 36 Orientation 2
Horizontal 4500-5150 MHz Average



802.11ac MCS0 Ch 36 Orientation 2
Horizontal 4500-5150 MHz Peak

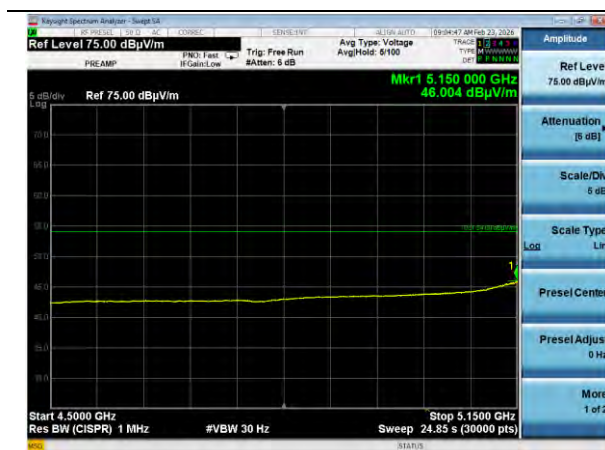


802.11ac MCS0 Ch 38 Orientation 3
Horizontal 4500-5150 MHz Average

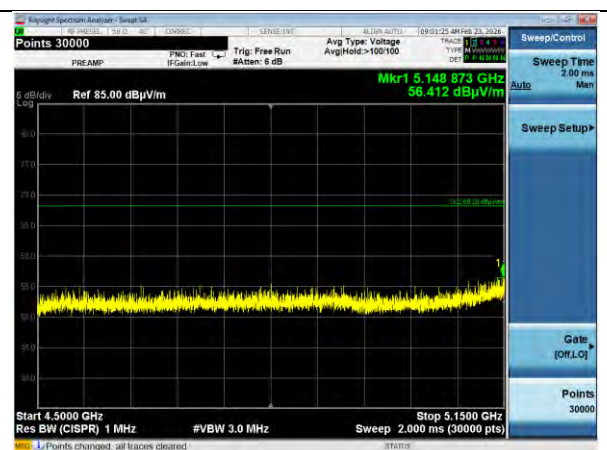


802.11ac MCS0 Ch 38 Orientation 3
Horizontal 4500-5150 MHz Peak

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Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734



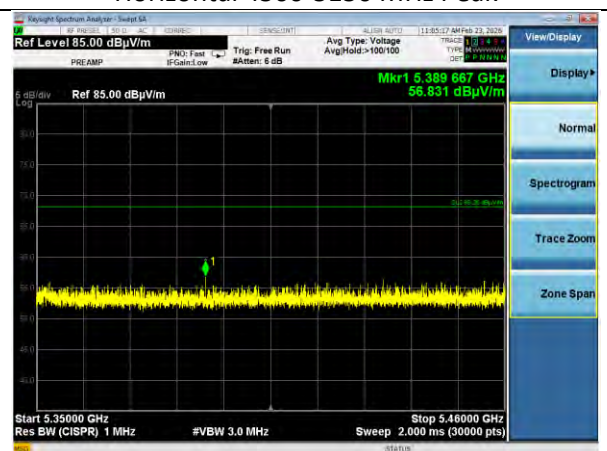
802.11ac MCS0 Ch 42 Orientation 3
Horizontal 4500-5150 MHz Average



802.11ac MCS0 Ch 42 Orientation 3
Horizontal 4500-5150 MHz Peak



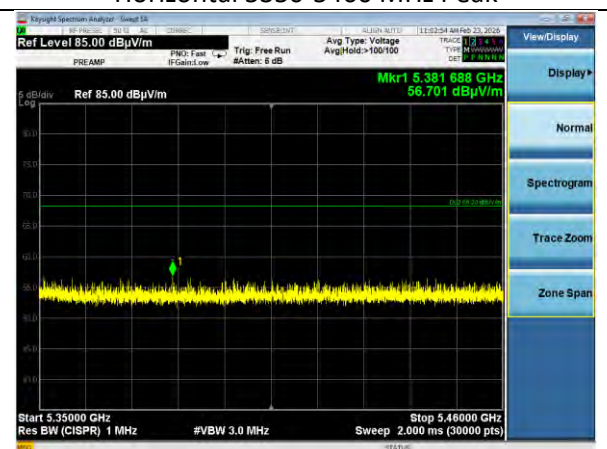
802.11a 6 Mbps Ch 64 Orientation 3
Horizontal 5350-5460 MHz Average



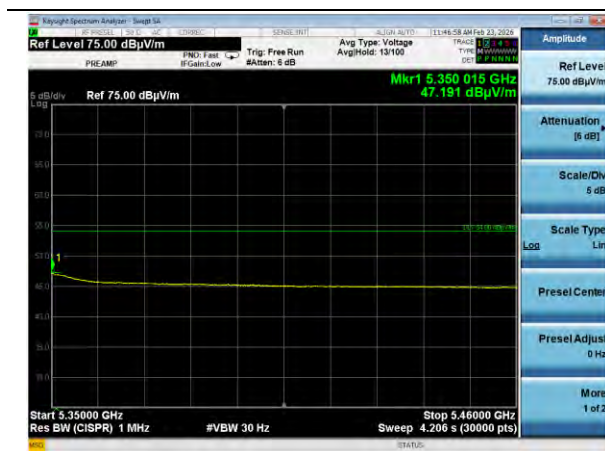
802.11a 6 Mbps Ch 64 Orientation 3
Horizontal 5350-5460 MHz Peak



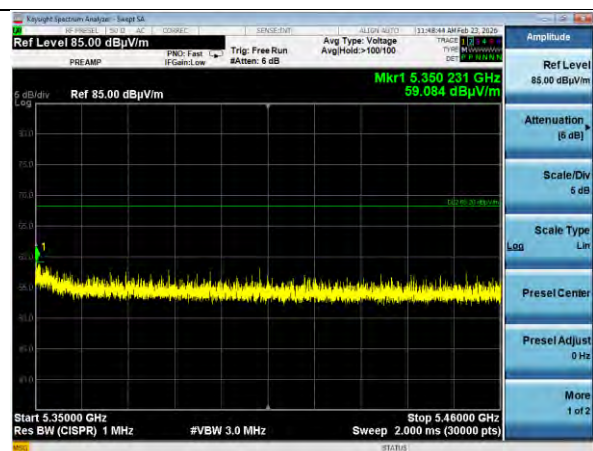
802.11ac MCS0 Ch 64 Orientation 3
Horizontal 5350-5460 MHz Average



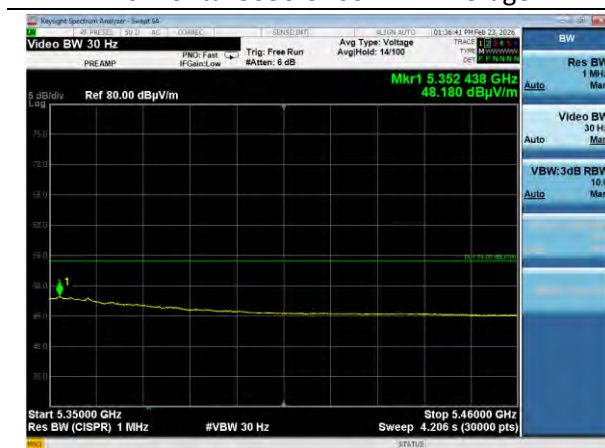
802.11ac MCS0 Ch 64 Orientation 3
Horizontal 5350-5460 MHz Peak



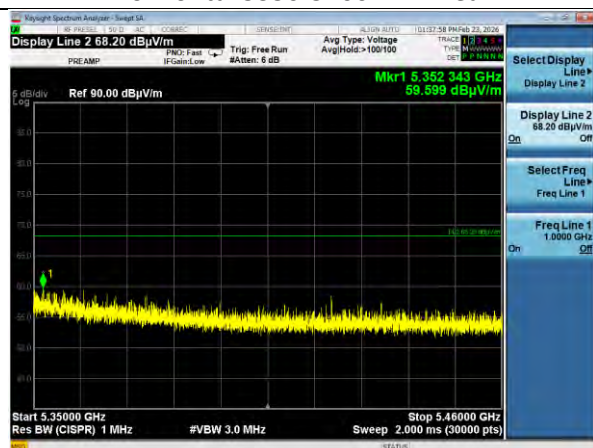
802.11ac MCS0 Ch 62 Orientation 3
Horizontal 5350-5460 MHz Average



802.11ac MCS0 Ch 62 Orientation 3
Horizontal 5350-5460 MHz Peak



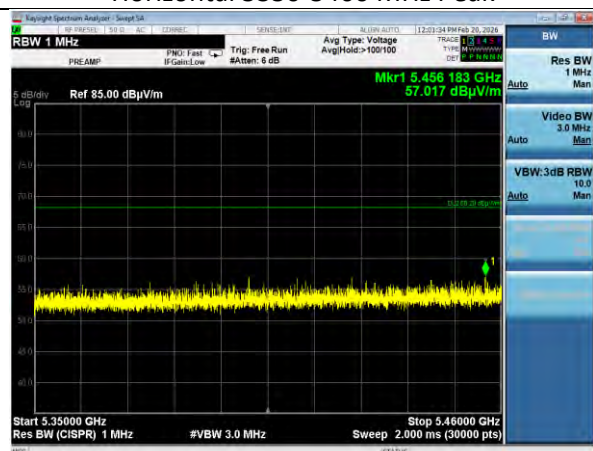
802.11ac MCS0 Ch 58 Orientation 3
Horizontal 5350-5460 MHz Average



802.11ac MCS0 Ch 58 Orientation 3
Horizontal 5350-5460 MHz Peak



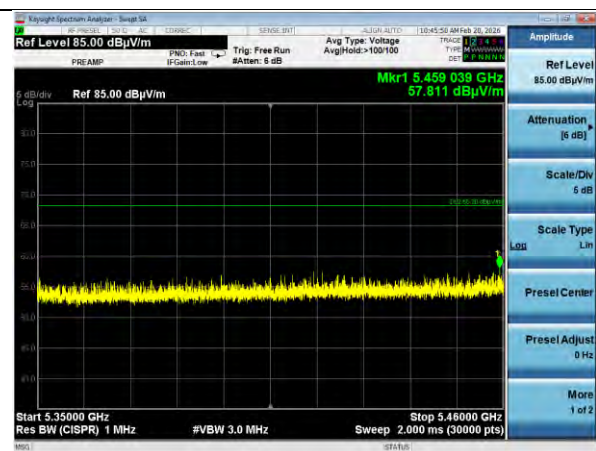
802.11a 6 Mbps Ch 100 Orientation 3
Horizontal 5350-5460 MHz Average



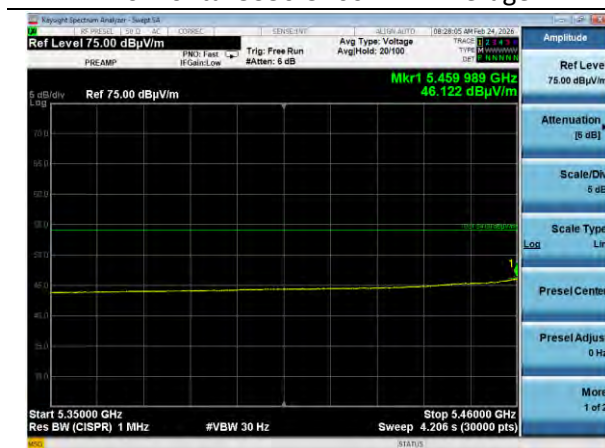
802.11a 6 Mbps Ch 100 Orientation 3
Horizontal 5350-5460 MHz Peak



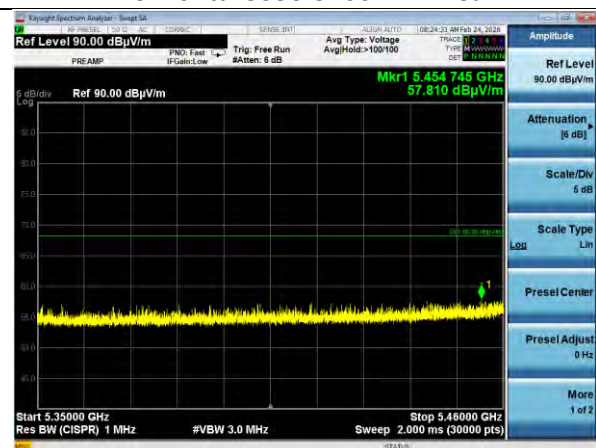
802.11ac MCS0 Ch 100 Orientation 3
Horizontal 5350-5460 MHz Average



802.11ac MCS0 Ch 100 Orientation 3
Horizontal 5350-5460 MHz Peak



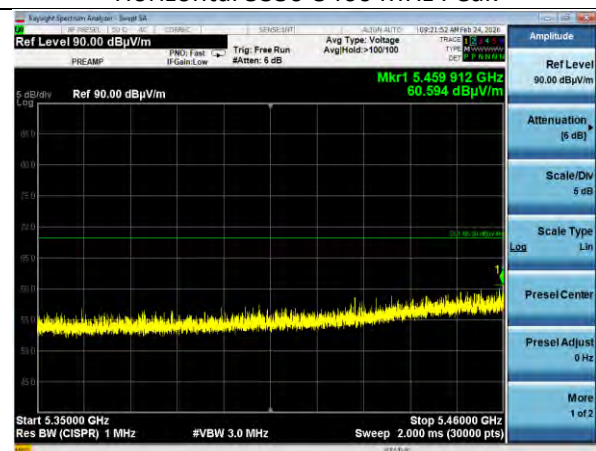
802.11ac MCS0 Ch 102 Orientation 3
Horizontal 5350-5460 MHz Average



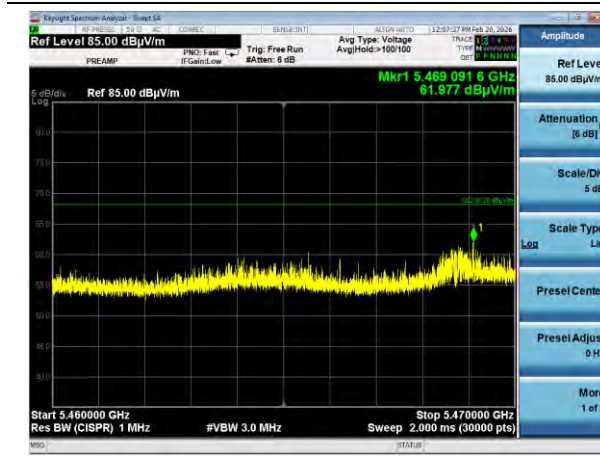
802.11ac MCS0 Ch 102 Orientation 3
Horizontal 5350-5460 MHz Peak



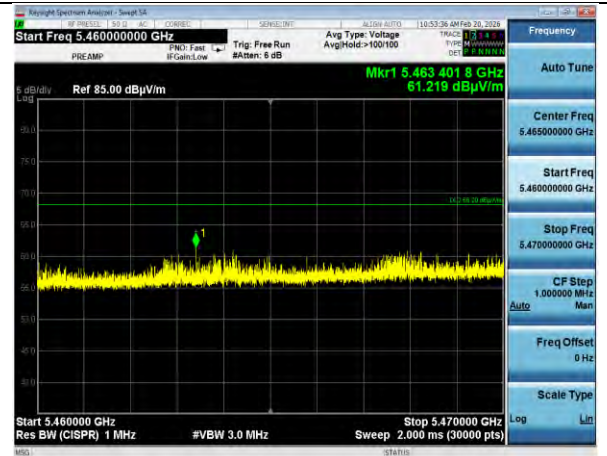
802.11ac MCS0 Ch 106 Orientation 3
Horizontal 5350-5460 MHz Average



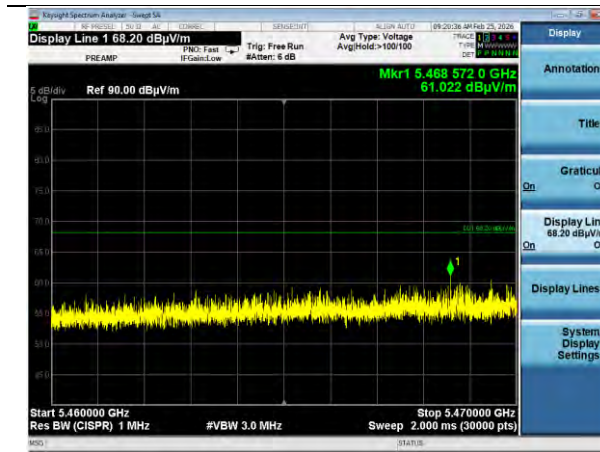
802.11ac MCS0 Ch 106 Orientation 3
Horizontal 5350-5460 MHz Peak



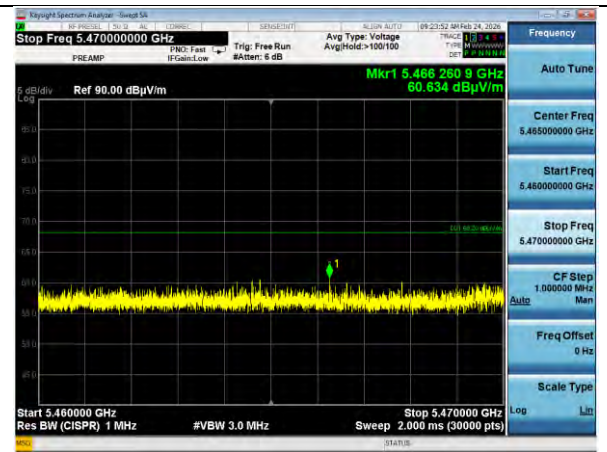
802.11a 6 Mbps Ch 100 Orientation 3
Horizontal 5460-5470 MHz Peak



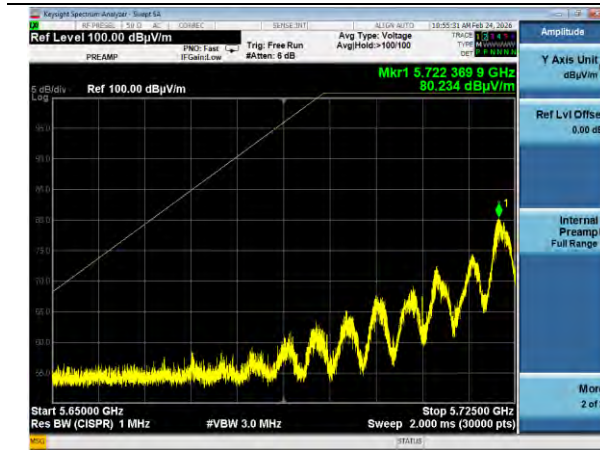
802.11ac MCS0 Ch 100 Orientation 3
Horizontal 5460-5470 MHz Peak



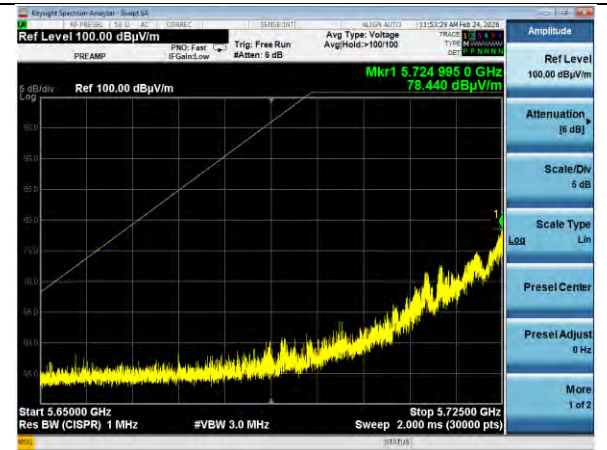
802.11ac MCS0 Ch 102 Orientation 3
Horizontal 5460-5470 MHz Peak



802.11ac MCS0 Ch 106 Orientation 3
Horizontal 5460-5470 MHz Peak

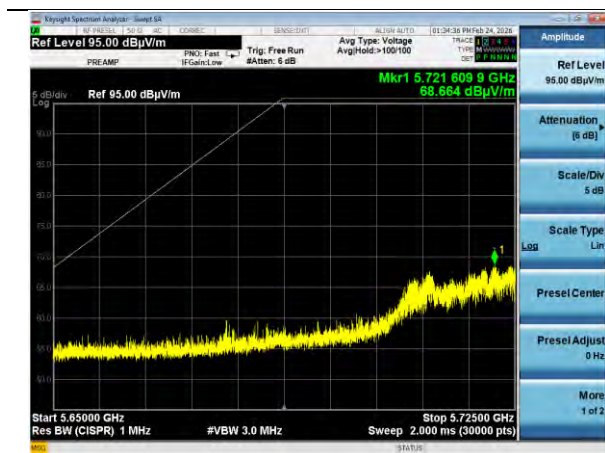


802.11a 6 Mbps Ch 149 Orientation 3
Horizontal 5650-5725 MHz Peak

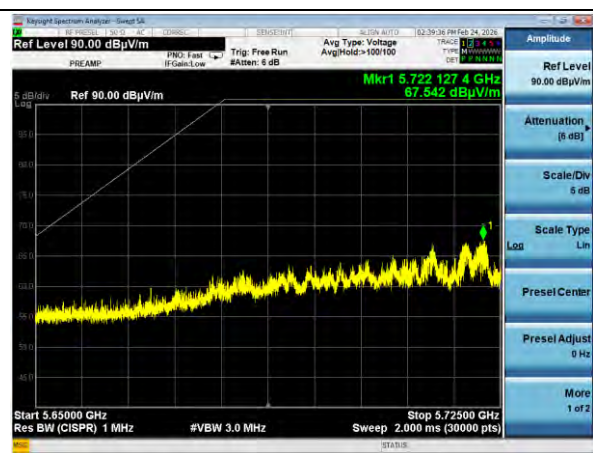


802.11ac MCS0 Ch 149 Orientation 3
Horizontal 5650-5725 MHz Peak

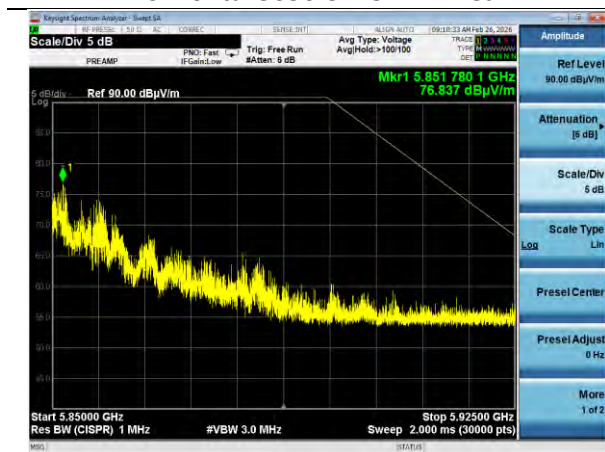
Company: Ezurio LLC	Page 46 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734



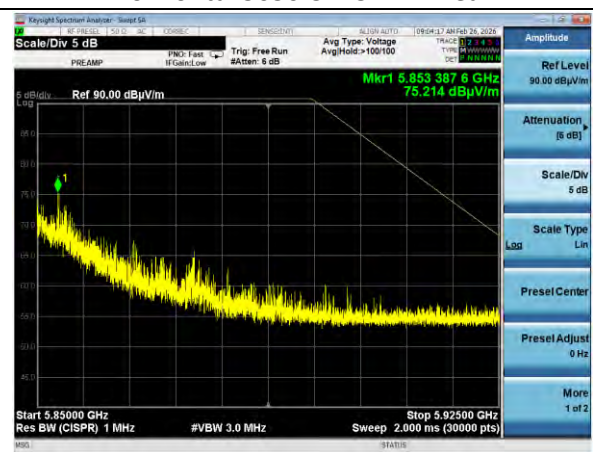
802.11ac MCS0 Ch 151 Orientation 1
Horizontal 5650-5725 MHz Peak



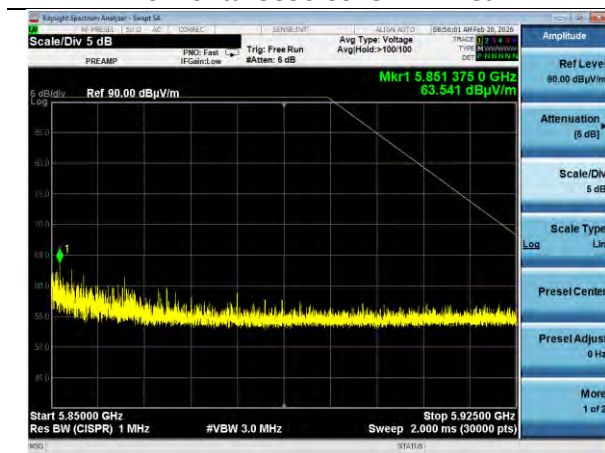
802.11ac MCS0 Ch 155 Orientation 1
Horizontal 5650-5725 MHz Peak



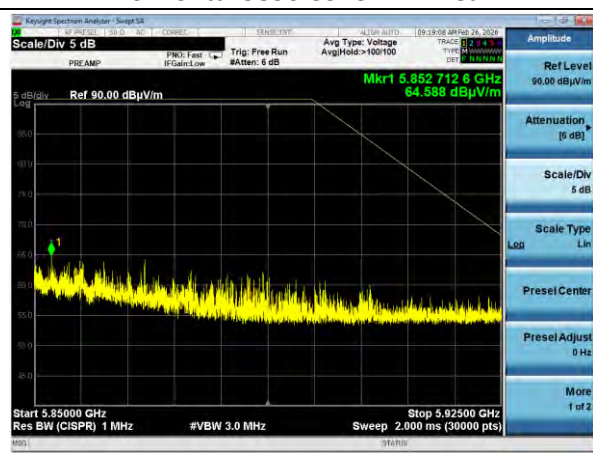
802.11a 6 Mbps Ch 165 Orientation 3
Horizontal 5850-5925 MHz Peak



802.11ac MCS0 Ch 165 Orientation 3
Horizontal 5850-5925 MHz Peak

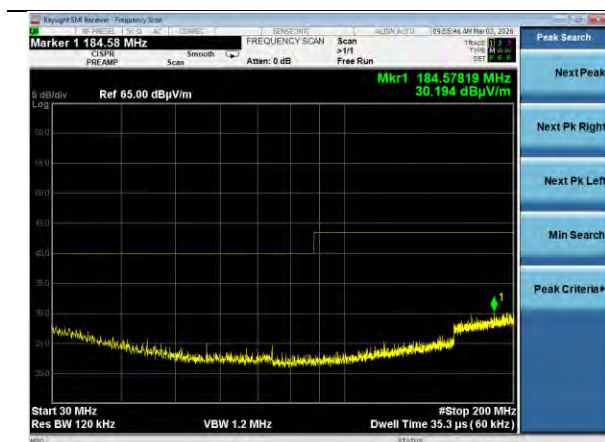


802.11ac MCS0 Ch 159 Orientation 3
Horizontal 5850-5925 MHz Peak

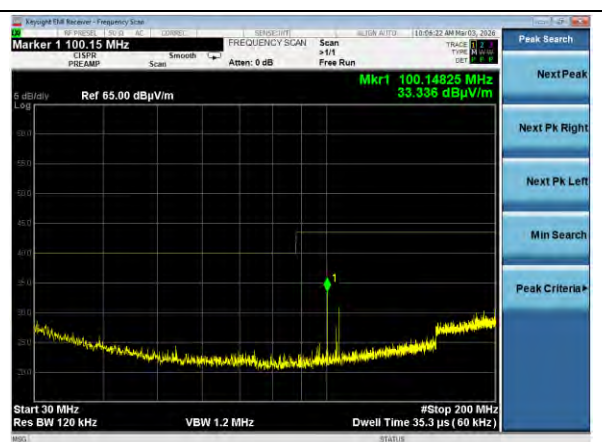


802.11ac MCS0 Ch 155 Orientation 1
Horizontal 5850-5925 MHz Peak

Spurious Emissions



802.11a 6 Mbps Ch 100 Orientation 1
30-200 MHz Horizontal



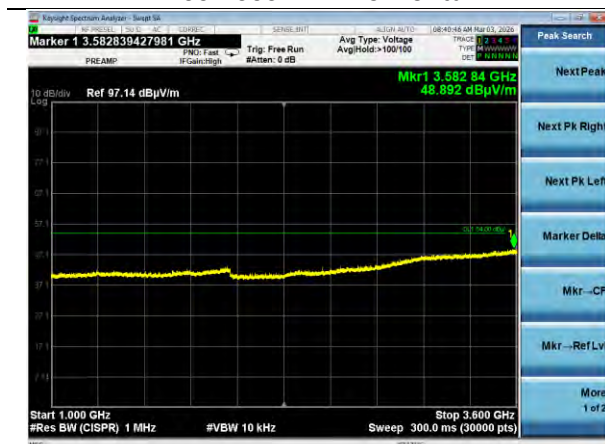
802.11a 6 Mbps Ch 100 Orientation 1
30-200 MHz Vertical



802.11a 6 Mbps Ch 100 Orientation 1
200-1000 MHz Horizontal



802.11a 6 Mbps Ch 100 Orientation 1
200-1000 MHz Vertical

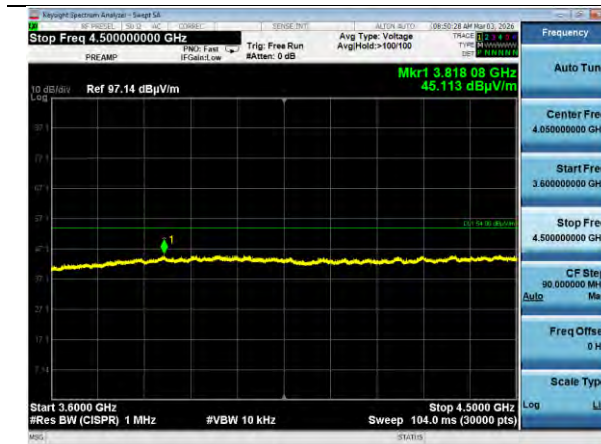


802.11a 6 Mbps Ch 100 Orientation 1
1-3.6 GHz Horizontal

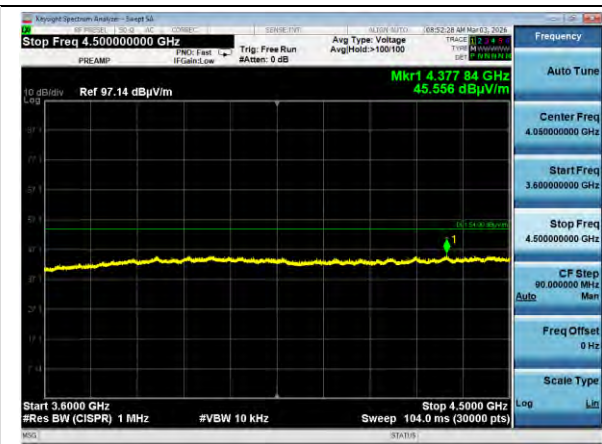


802.11a 6 Mbps Ch 100 Orientation 1
1-3.6 GHz Vertical

Company: Ezurio LLC	Page 48 of 50	Name: 802.11ac Professional Wi-Fi + BT5.0 Module
Report: TR3959B		Model: SU60-SOMC (453-00003)
Job: C-3959		Serial: 5302203735, 5302203734



802.11a 6 Mbps Ch 100 Orientation 1
3.6-4.5 GHz Horizontal



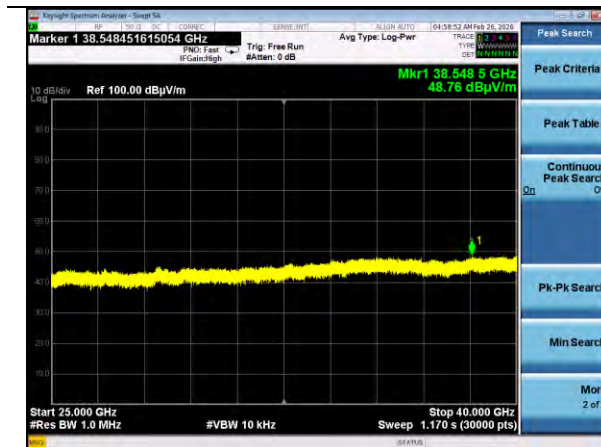
802.11a 6 Mbps Ch 100 Orientation 1
3.6-4.5 GHz Vertical



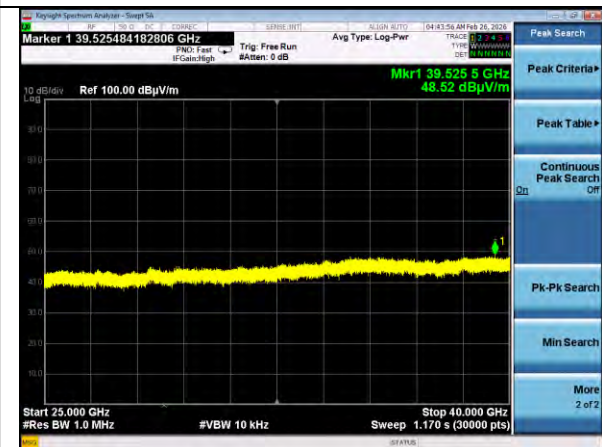
802.11a 6 Mbps Ch 100 Orientation 2
8-18 GHz Horizontal



802.11a 6 Mbps Ch 100 Orientation 2
8-18 GHz Vertical



802.11a 6 Mbps Ch 100 Orientation 1
18-40 GHz Horizontal



802.11a 6 Mbps Ch 100 Orientation 1
18-40 GHz Vertical

6 REVISION HISTORY

Version	Date	Notes	Person
0.0	3/5/2026	Initial Draft	Anthony Smith
0.1	3/11/2026	Revisions Made	Anthony Smith
0.2	3/19/2026	Comments addressed, revisions made	Anthony Smith
1.0	3/24/2026	Finalized Draft	Anthony Smith
1.1	4/30/2026	Model Information Updated	Anthony Smith

END OF REPORT