

FCC and ISED Test Report
Manufacturer: 3Shape TRIOS A/S
Model: L1P-2



In accordance with FCC 47 CFR Part 15E and
ISED RSS-247 and ISED RSS-GEN
(5 GHz WLAN)

Prepared for: 3Shape TRIOS A/S
Holmens Kanal 7
DK-1060 Copenhagen, Denmark

FCC ID: 2A4DE-3S001 IC: 28188-3S001

COMMERCIAL-IN-CONFIDENCE

Document 75961963-04 Issue 02

SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steve Marshall	Senior Engineer	Authorised Signatory	14 March 2025

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E and ISED RSS-247 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Ahmad Javid	14 March 2025	
Testing	Thomas Biddlecombe	14 March 2025	

FCC Accreditation ISED Accreditation
492497/UK2010 Octagon House, Fareham Test Laboratory 12669A/UK0003 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15E 2023, ISED RSS-247 Issue 3 (2023-08) and ISED RSS-GEN Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	05 March 2025
2	Admin change to remove KDB 484596	14-March 2025

Table 1

1.2 Introduction

Applicant	3Shape TRIOS A/S
Manufacturer	3Shape TRIOS A/S
Model Number(s)	L1P-2
Serial Number(s)	1LD2428L01002X and 1LD2428L01001X
Hardware Version(s)	10037061-01 Build 4 RC1
Software Version(s)	Radio module driver: 11.39.0.18
Number of Samples Tested	2
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2023 ISED RSS-247: Issue 3 (2023-08) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Order Number	Potto_26_16072024
Date	09-July-2024
Date of Receipt of EUT	07-October-2024
Start of Test	10-January-2025
Finish of Test	17-February-2025
Name of Engineer(s)	Thomas Biddlecombe and Ahmad Javid
Related Document(s)	ANSI C63.10 (2020) KDB 662911 D01 v02r01



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E and ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15E	RSS-247	RSS-GEN			
Configuration and Mode: 5GHz WLAN						
2.1	15.407 (a)	6.2	N/A	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020)
2.2	15.407 (b).	6.2	N/A	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.3	15.205	3.3	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020)
2.4	15.209 & 15.407 (b)	6.2	6.13 & 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020)

Table 2



1.4 Application Form Equipment Description

Technical Description: <i>(Please provide a brief description of the intended use of the equipment including the technologies the product supports)</i>		L1P-2 is an Intra Oral Dental Scanner system with Wi-Fi and Bluetooth.	
Manufacturer:		3Shape TRIOS A/S	
Model:		L1P-2	
Part Number:		10037061-01	
Hardware Version:		Build 4 RC1	
Software Version:		Radio module driver: 11.39.0.18	
FCC ID of the product under test – see guidance here		2A4DE-3S001	
IC ID of the product under test – see guidance here		28188-3S001	
Device Category	Mobile ☐	Portable ☒	Fixed ☐
Equipment is fitted with an Audio Low Pass Filter		Yes ☐	No ☒

Intentional Radiators

Technology	Bluetooth (BR+EDR)	Bluetooth Low Energy	2.4 GHz WiFi	5 GHz WiFi	
Frequency Range (MHz to MHz)	2400-2483.5	2400-2483.5	2400-2483.5	5150-5350, 5470-5850	
Conducted Declared Output Power (dBm)	10	7	18	18	
Antenna Gain (dBi)	Ant.2: -4.72	Ant.2: -4.72	Ant.1: -3.08 Ant.2: -4.72	Ant.1: 2.84 Ant.2: 3.11	
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	1	1, 2	20, 40	20, 40, 80	
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	GFSK, $\pi/4$ DQPSK, 8-DPSK	GFSK	DSSS, OFDM	OFDM	
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	N/A	N/A	N/A	N/A	
Bottom Frequency (MHz)	2402	2402	2412	5180	
Middle Frequency (MHz)	2441	2440	2437	5500	
Top Frequency (MHz)	2480	2480	2462	5825	

Un-intentional Radiators



Highest frequency generated or used in the device or on which the device operates or tunes	☐ 5850 (ST60-SIPT – 802.11 ac/a/b/g/n + Bluetooth 5.1 module)
Lowest frequency generated or used in the device or on which the device operates or tunes	☐ 32.768 kHz (Oscillator mainboard)
Class A Digital Device (Use in commercial, industrial or business environment) ☐	
Class B Digital Device (Use in residential environment only) ☒	

AC Power Source

AC supply frequency:	-	Hz
Voltage	-	V
Max current:	-	A
Single Phase ☐ Three Phase ☐		

DC Power Source

Nominal voltage:	-	V
Extreme upper voltage:	-	V
Extreme lower voltage:	-	V
Max current:	-	A

Battery Power Source

Voltage:	3.6	V
End-point voltage:	2.5	V (Point at which the battery will terminate)
Alkaline ☐ Leclanche ☐ Lithium ☒ Nickel Cadmium ☐ Lead Acid* ☐ *(Vehicle regulated)		
Other ☐	Please detail:	

Charging

Can the EUT transmit whilst being charged	Yes ☐ No ☒
---	---

Temperature

Minimum temperature:	15	°C
Maximum temperature:	26	°C



Cable Loss

Adapter Cable Loss (Conducted sample)	0.5	dB
--	-----	----

Antenna Characteristics

Antenna connector ☐			State impedance		Ohm
Temporary antenna connector ☒ SMA VIA IPEX MHF4L(HSC)			State impedance	50	Ohm
Integral antenna ☒	Type:	Flexible Monopole	Gain	Ant.1: 2.84 Ant.2: 3.11	dBi
External antenna ☐	Type:		Gain		dBi

For external antenna only:
 Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed):
 Equipment is only ever professionally installed ☐
 Non-standard Antenna Jack ☐
 All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.

Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

I hereby declare that the information supplied is correct and complete.

Name: David Busk
 Position held: Approval Specialist
 Date: 27 January 2025



1.5 Product Information

1.5.1 Technical Description

Handheld intraoral scanner (IOS) system capable of obtaining 2D and 3D digital images of the topographical characteristics of teeth.

1.5.2 Additional Information

Testing was requested by the manufacturer in support of a C2PC where the antenna type and gain has been modified by the manufacturer. A test plan was determined as follows:

Restricted & Authorized Band Edge
Radiated Spurious Emissions

The above tests were limited to the worst-case modes from the original filing which were identified as:

802.11a MIMO Antenna Port A & B, 6 Mbps
802.11n MIMO Antenna Port A & B, MCS8

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: L1P-2, Serial Number: 1LD2428L01002X			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: L1P-2, Serial Number: 1LD2428L01001X			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 3



1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 5 GHz WLAN		
Maximum Conducted Output Power	Thomas Biddlecombe	UKAS
Authorised Band Edges	Ahmad Javid	UKAS
Restricted Band Edges	Ahmad Javid	UKAS
Spurious Radiated Emissions	Ahmad Javid	UKAS

Table 4

Office Address:

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom



2 Test Details

2.1 Maximum Conducted Output Power

2.1.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2
ISED RSS-GEN, Clause 6.12

2.1.2 Equipment Under Test and Modification State

L1P-2, S/N: 1LD2428L01002X - Modification State 0

2.1.3 Date of Test

10-January-2025 to 13-January-2025

2.1.4 Test Method

The test was performed in accordance with ANSI C63.10 2020 clause 12.4.3.2 (method PM-G). Since the gated power meter was used for method PM-G the EUT was measured only while transmitting and hence no duty cycle correction was necessary.

Straddle channel power was measured in accordance with ANSI C63.10 2020 clause 12.4.2.4 (method SA-2)

MIMO output port summing was performed in accordance with KDB 662911 D01.

The EUT has equal conducted powers on all ports for each mode of operation, but unequal antenna gains. Therefore, for SISO and 2TX MIMO modes the EUT was tested on the ports with the highest antenna gain combinations which would result in the highest EIRP output power.

The DUT was battery powered with the batteries fully charged prior to testing.

2.1.5 Environmental Conditions

Ambient Temperature	20.2 - 20.4 °C
Relative Humidity	25.5 - 27.2 %



2.1.6 Test Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	100.0
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5180	-	12.21	-	-	12.21	24.00	-11.79
5200	-	16.23	-	-	16.23	24.00	-7.77
5240	-	16.38	-	-	16.38	24.00	-7.62

Table 5 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5180	16.680	-	12.21	-	-	12.21	3.11	15.32	22.22	-6.90
5200	16.860	-	16.23	-	-	16.23	3.11	19.34	22.27	-2.93
5240	16.800	-	16.38	-	-	16.38	3.11	19.49	22.25	-2.77

Table 6 - ISFD Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5180	-	12.21	-	-	12.21	24.00	-11.79
5200	-	16.39	-	-	16.39	24.00	-7.61
5240	-	16.39	-	-	16.39	24.00	-7.61

Table 7 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5180	17.640	-	12.21	-	-	12.21	3.11	15.32	22.46	-7.14
5200	17.760	-	16.39	-	-	16.39	3.11	19.50	22.49	-2.99
5240	17.760	-	16.39	-	-	16.39	3.11	19.50	22.49	-3.00

Table 8 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5190	-	11.10	-	-	11.10	24.00	-12.90
5230	-	14.32	-	-	14.32	24.00	-9.68

Table 9 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5190	36.300	-	11.10	-	-	11.10	3.11	14.21	23.00	-8.79
5230	36.100	-	14.32	-	-	14.32	3.11	17.43	23.00	-5.57

Table 10 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5210	-	8.37	-	-	8.37	24.00	-15.63

Table 11 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5210	76.340	-	8.37	-	-	8.37	3.11	11.48	23.00	-11.52

Table 12 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	100.0
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5260	19.800	-	14.38	-	-	14.38	23.97	-9.58
5280	19.800	-	14.39	-	-	14.39	23.97	-9.58
5320	19.860	-	12.60	-	-	12.60	23.98	-11.38

Table 13 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5260	16.680	-	14.38	-	-	14.38	23.22	-8.84	3.11	17.49	29.22	-11.73
5280	16.680	-	14.39	-	-	14.39	23.22	-8.84	3.11	17.50	29.22	-11.73
5320	16.680	-	12.60	-	-	12.60	23.22	-10.62	3.11	15.71	29.22	-13.51

Table 14 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5260	20.160	-	14.41	-	-	14.41	24.00	-9.59
5280	20.100	-	14.40	-	-	14.40	24.00	-9.60
5320	20.100	-	12.61	-	-	12.61	24.00	-11.39

Table 15 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5260	17.640	-	14.41	-	-	14.41	23.46	-9.05	3.11	17.52	29.46	-11.94
5280	17.640	-	14.40	-	-	14.40	23.46	-9.06	3.11	17.51	29.46	-11.95
5320	17.640	-	12.61	-	-	12.61	23.46	-10.85	3.11	15.72	29.46	-13.74

Table 16 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5270	40.500	-	13.14	-	-	13.14	24.00	-10.86
5310	40.500	-	10.38	-	-	10.38	24.00	-13.62

Table 17 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5270	36.200	-	13.14	-	-	13.14	24.00	-10.86	3.11	16.25	30.00	-13.75
5310	36.200	-	10.38	-	-	10.38	24.00	-13.62	3.11	13.49	30.00	-16.51

Table 18 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5290	81.840	-	9.56	-	-	9.56	24.00	-14.44

Table 19 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5290	76.340	-	9.56	-	-	9.56	24.00	-14.44	3.11	12.67	30.00	-17.33

Table 20 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	100.0
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5500	19.860	-	12.79	-	-	12.79	23.98	-11.19
5580	34.680	-	17.54	-	-	17.54	24.00	-6.46
5700	19.860	-	11.70	-	-	11.70	23.98	-12.28
5720	22.640	-	16.36	-	-	16.36	24.00	-7.64

Table 21 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5500	16.680	-	12.79	-	-	12.79	23.22	-10.43	3.11	15.90	29.22	-13.32
5580	17.400	-	17.54	-	-	17.54	23.41	-5.86	3.11	20.65	29.41	-8.75
5700	16.680	-	11.70	-	-	11.70	23.22	-11.52	3.11	14.81	29.22	-14.41
5720	13.340	-	16.36	-	-	16.36	22.25	-5.89	3.11	19.47	28.25	-8.78

Table 22 - ISFD Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5500	20.100	-	13.80	-	-	13.80	24.00	-10.20
5580	32.280	-	17.64	-	-	17.64	24.00	-6.36
5700	20.100	-	12.76	-	-	12.76	24.00	-11.24
5720	20.960	-	16.47	-	-	16.47	24.00	-7.53

Table 23 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5500	17.640	-	13.80	-	-	13.80	23.46	-9.67	3.11	16.91	29.46	-12.56
5580	18.000	-	17.64	-	-	17.64	23.55	-5.91	3.11	20.75	29.55	-8.80
5700	17.640	-	12.76	-	-	12.76	23.46	-10.71	3.11	15.87	29.46	-13.60
5720	13.880	-	16.47	-	-	16.47	22.42	-5.95	3.11	19.58	28.42	-8.84

Table 24 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5510	40.400	-	12.41	-	-	12.41	24.00	-11.59
5550	40.400	-	15.27	-	-	15.27	24.00	-8.73
5670	40.400	-	13.24	-	-	13.24	24.00	-10.76
5710	43.800	-	15.21	-	-	15.21	24.00	-8.79

Table 25 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5510	36.200	-	12.41	-	-	12.41	24.00	-11.59	3.11	15.52	30.00	-14.48
5550	36.300	-	15.27	-	-	15.27	24.00	-8.73	3.11	18.38	30.00	-11.62
5670	36.200	-	13.24	-	-	13.24	24.00	-10.76	3.11	16.35	30.00	-13.65
5710	32.900	-	15.21	-	-	15.21	24.00	-8.79	3.11	18.32	30.00	-11.68

Table 26 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5530	81.840	-	10.84	-	-	10.84	24.00	-13.16
5610	89.980	-	13.79	-	-	13.79	24.00	-10.21
5690	76.140	-	13.92	-	-	13.92	24.00	-10.08

Table 27 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5530	76.340	-	10.84	-	-	10.84	24.00	-13.16	3.11	13.95	30.00	-16.05
5690	72.840	-	13.92	-	-	13.92	24.00	-10.08	3.11	17.03	30.00	-12.97

Table 28 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	100.0
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5720	-	10.46	-	-	10.46	30.00	-19.54
5745	-	16.95	-	-	16.95	30.00	-13.05
5785	-	17.05	-	-	17.05	30.00	-12.95
5825	-	17.24	-	-	17.24	30.00	-12.76

Table 29 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5720	-	11.06	-	-	11.06	30.00	-18.94
5745	-	17.05	-	-	17.05	30.00	-12.95
5785	-	17.14	-	-	17.14	30.00	-12.86
5825	-	17.32	-	-	17.32	30.00	-12.68

Table 30 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5710	-	5.73	-	-	5.73	30.00	-24.27
5755	-	14.84	-	-	14.84	30.00	-15.16
5795	-	14.98	-	-	14.98	30.00	-15.02

Table 31 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	-		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.11
Active Port(s):	B (Aux)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5690	-	0.74	-	-	0.74	30.00	-29.26
5775	-	13.47	-	-	13.47	30.00	-16.53

Table 32 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5180	11.05	12.35	-	-	14.76	24.00	-9.24
5200	15.15	16.32	-	-	18.79	24.00	-5.21
5240	15.34	16.39	-	-	18.90	24.00	-5.10

Table 33 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5180	17.640	11.05	12.35	-	-	14.76	2.98	17.74	22.46	-4.73
5200	17.760	15.15	16.32	-	-	18.79	2.98	21.77	22.49	-0.73
5240	17.760	15.34	16.39	-	-	18.90	2.98	21.88	22.49	-0.61

Table 34 - ISCED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5190	9.82	10.90	-	-	13.40	24.00	-10.60
5230	13.30	14.26	-	-	16.82	24.00	-7.18

Table 35 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5190	36.200	9.82	10.90	-	-	13.40	2.98	16.38	23.00	-6.62
5230	36.200	13.30	14.26	-	-	16.82	2.98	19.79	23.00	-3.21

Table 36 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv) RSS-247 6.2.1.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5210	7.17	8.42	-	-	10.85	24.00	-13.15

Table 37 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ				
5210	76.120	7.17	8.42	-	-	10.85	2.98	13.82	23.00	-9.18

Table 38 - ISFD Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5260	20.160	13.34	14.39	-	-	16.91	24.00	-7.09
5280	20.160	13.37	14.26	-	-	16.85	24.00	-7.15
5320	20.160	11.57	12.58	-	-	15.12	24.00	-8.88

Table 39 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5260	17.640	13.34	14.39	-	-	16.91	23.46	-6.56	2.98	19.88	29.46	-9.58
5280	17.640	13.37	14.26	-	-	16.85	23.46	-6.62	2.98	19.82	29.46	-9.64
5320	17.640	11.57	12.58	-	-	15.12	23.46	-8.35	2.98	18.09	29.46	-11.37

Table 40 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5270	40.500	12.41	13.19	-	-	15.83	24.00	-8.17
5310	40.400	9.72	10.54	-	-	13.16	24.00	-10.84

Table 41 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5270	36.200	12.41	13.19	-	-	15.83	24.00	-8.17	2.98	18.81	30.00	-11.19
5310	36.200	9.72	10.54	-	-	13.16	24.00	-10.84	2.98	16.14	30.00	-13.86

Table 42 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5290	81.840	8.65	9.56	-	-	12.14	24.00	-11.86

Table 43 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5290	76.120	8.65	9.56	-	-	12.14	24.00	-11.86	2.98	15.12	30.00	-14.88

Table 44 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5500	20.100	11.98	13.65	-	-	15.91	24.00	-8.09
5580	30.540	15.80	17.34	-	-	19.65	24.00	-4.35
5700	20.100	10.49	12.45	-	-	14.59	24.00	-9.41
5720	19.880	15.54	16.08	-	-	18.83	23.98	-5.16

Table 45 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5500	17.640	11.98	13.65	-	-	15.91	23.46	-7.56	2.98	18.88	29.46	-10.58
5580	17.940	15.80	17.34	-	-	19.65	23.54	-3.89	2.98	22.63	29.54	-6.91
5700	17.640	10.49	12.45	-	-	14.59	23.46	-8.87	2.98	17.57	29.46	-11.89
5720	13.820	15.54	16.08	-	-	18.83	22.41	-3.58	2.98	21.80	28.41	-6.60

Table 46 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5510	40.500	10.96	12.56	-	-	14.84	24.00	-9.16
5550	41.100	13.81	15.36	-	-	17.66	24.00	-6.34
5670	40.500	11.74	13.40	-	-	15.66	24.00	-8.34
5710	35.200	14.23	14.58	-	-	17.42	24.00	-6.58

Table 47 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5510	36.200	10.96	12.56	-	-	14.84	24.00	-9.16	2.98	17.82	30.00	-12.18
5550	36.200	13.81	15.36	-	-	17.66	24.00	-6.34	2.98	20.64	30.00	-9.36
5670	36.200	11.74	13.40	-	-	15.66	24.00	-8.34	2.98	18.64	30.00	-11.36
5710	32.900	14.23	14.58	-	-	17.42	24.00	-6.58	2.98	20.40	30.00	-9.60

Table 48 - ISCED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	Σ		
5530	81.840	8.87	10.76	-	-	12.93	24.00	-11.07
5610	82.280	11.77	13.75	-	-	15.89	24.00	-8.11
5690	75.920	13.06	13.41	-	-	16.25	24.00	-7.75

Table 49 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	Σ						
5530	76.120	8.87	10.76	-	-	12.93	24.00	-11.07	2.98	15.90	30.00	-14.10
5690	72.620	13.06	13.41	-	-	16.25	24.00	-7.75	2.98	19.23	30.00	-10.77

Table 50 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5720	10.19	10.63	-	-	13.42	30.00	-16.58
5745	14.97	16.72	-	-	18.94	30.00	-11.06
5785	15.07	16.91	-	-	19.09	30.00	-10.91
5825	15.24	17.11	-	-	19.28	30.00	-10.72

Table 51 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5710	4.64	5.01	-	-	7.84	30.00	-22.16
5755	13.28	14.94	-	-	17.20	30.00	-12.80
5795	13.34	15.10	-	-	17.32	30.00	-12.68

Table 52 - Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2 C63.10 12.4.2.4
Additional Reference(s):	662911 D01 v02r01 F)2)d)(ii), 662911 D01 v02r01 E)1)		
Note(s):	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	100.0
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	2.98
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
5690	-0.43	0.10	-	-	2.85	30.00	-27.15
5775	11.20	13.46	-	-	15.48	30.00	-14.52

Table 53 - Maximum Conducted (average) Output Power Results



FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted TX Power	30 dBm (1W) for master device 24 dBm (250 mW) for client device	24 dBm (250 mW) or 11 dBm + 10 Log B, whichever is lower (B = 26 dB emission BW)		30 dBm (1 W)
Max EIRP	4W (36 dBm) with 6 dBi antenna 200 W (53 dBm) for fixed P-t-P application with 23 dBi antenna Additional rule for outdoor operation: Max_EIRP < 125 mW (21 dBm) at any elevation angle > 30° from horizon.	1 W (30 dBm) with 6 dBi antenna		4 W (36 dBm) with 6 dBi antenna. No EIRP limit for fixed P-t-P application (i.e., no antenna gain limit)

Table 54

ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1 and 6.2.5.2

Device	Frequency Range (MHz)				
	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895
OEM installed in vehicles	30 mW or 1.76 + 10 log ₁₀ B, dBm (EIRP); whichever is less	30 mW or 1.76 + 10 log ₁₀ B, dBm (EIRP); whichever is less	-	-	-
Other	200 mW or 10 + 10log ₁₀ B dBm (EIRP); whichever is less	250 mW or 11 + 10 log ₁₀ B); whichever is less 1.0 W or 17 + 10log ₁₀ B dBm EIRP; whichever is less	250 mW or 11 + 10 log ₁₀ B); whichever is less 1.0 W or 17 + 10log ₁₀ B dBm EIRP; whichever is less	1W 4W EIRP	Fixed Outdoor Access Point: 4 W EIRP Fixed Outdoor Client: 1 W EIRP Indoor Access Point: 4 W EIRP Indoor subordinate: 4 W EIRP Indoor Client: 1 W EIRP

Table 55



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	2891	12	02-Dec-2025
GPSDR Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	09-Mar-2025
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	18-Sep-2025
USB Power Sensor	Boonton	RTP5008	5833	12	26-Jul-2025
USB Power Sensor	Boonton	RTP5008	5834	12	26-Jul-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025

Table 56



2.2 Authorised Band Edges

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (b),
ISED RSS-247, Clause 6.2

2.2.2 Equipment Under Test and Modification State

L1P-2, S/N: 1LD2428L01001X - Modification State 0

2.2.3 Date of Test

13-February-2025

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.6.

The DUT was Battery Powered.

For U-NII-2C channels, the limit line on the following plots equated to -27 dBm/MHz. EIRP and was converted to field strength at 3 m using the following formula:

Field Strength (dB μ V/m at 3 m) = EIRP (dBm) + 95.2 dB

Authorised band edge measurements were performed, with the device operating in SISO and MIMO configurations, across the various modes supported by the device.

The measurements displayed within this report, have been limited to those modes which have been shown to be worst case which were:

802.11a MIMO Antenna Port A & B, 6Mbps
802.11n MIMO Antenna Port A & B, MCS8

2.2.5 Environmental Conditions

Ambient Temperature	20.6 °C
Relative Humidity	42.3 %



2.2.6 Test Results

5GHz WLAN, 802.11a

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBuV/m)
802.11a	6Mbps	5180	5150	60.70
802.11a	6Mbps	5320	5350	60.43
802.11a	6Mbps	5500	5470	58.11
802.11a	6Mbps	5700	5725	57.13
802.11a	6Mbps	5745	5725	56.72
802.11a	6Mbps	5825	5850	56.64

Table 57

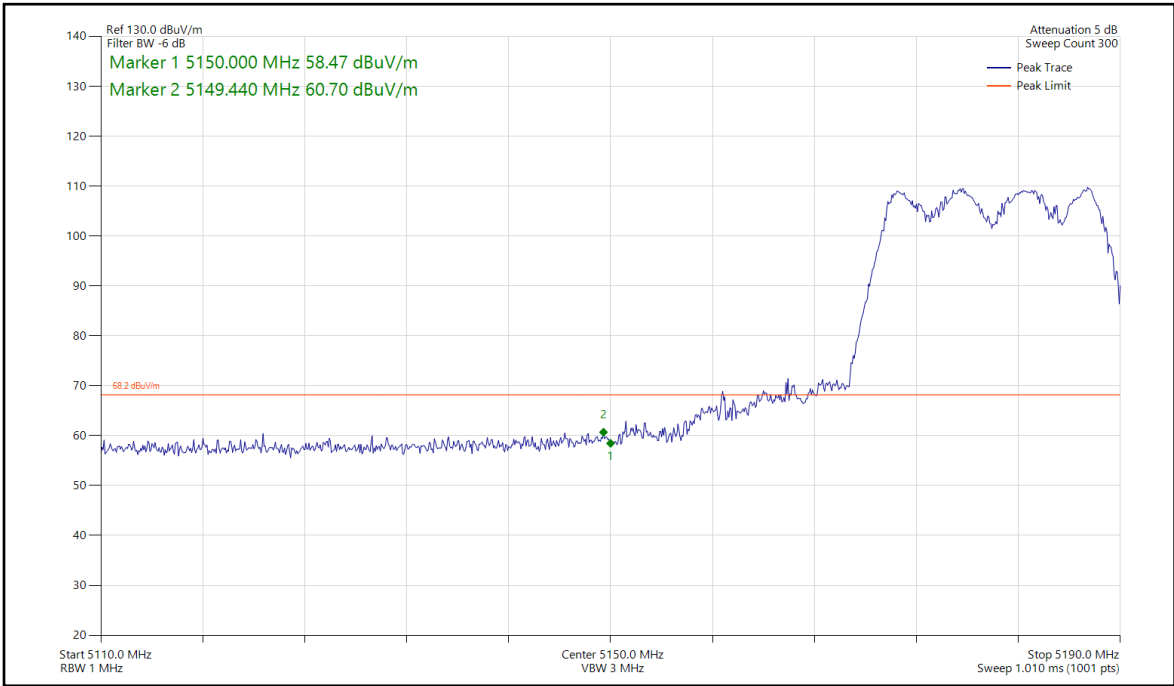


Figure 1 - CH36_802.11a, 5180 MHz, Band Edge Frequency 5150 MHz

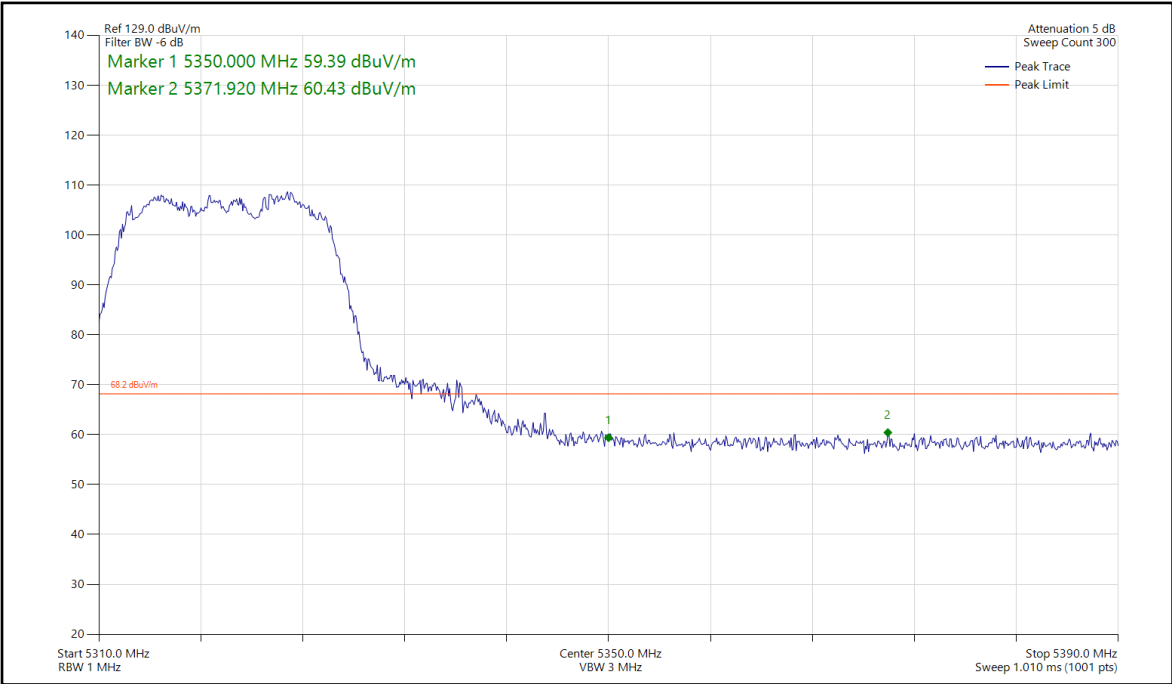


Figure 2 - CH64_802.11a, 5320 MHz, Band Edge Frequency 5350 MHz

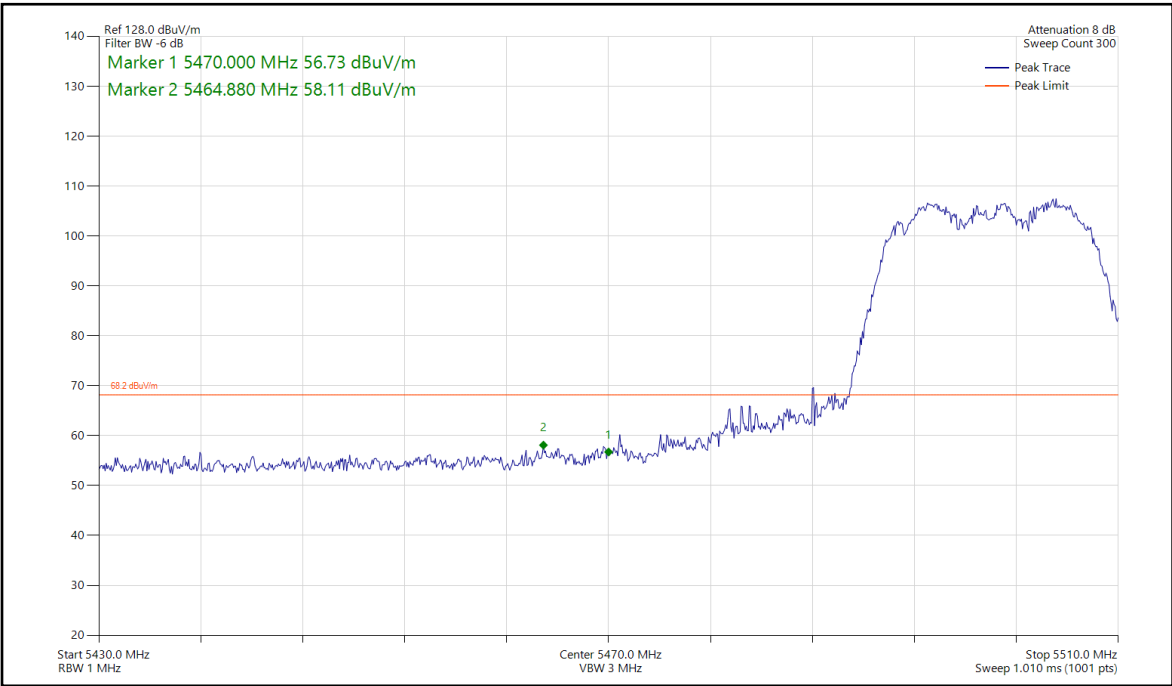


Figure 3 - CH100_802.11a, 5500 MHz, Band Edge Frequency 5470 MHz

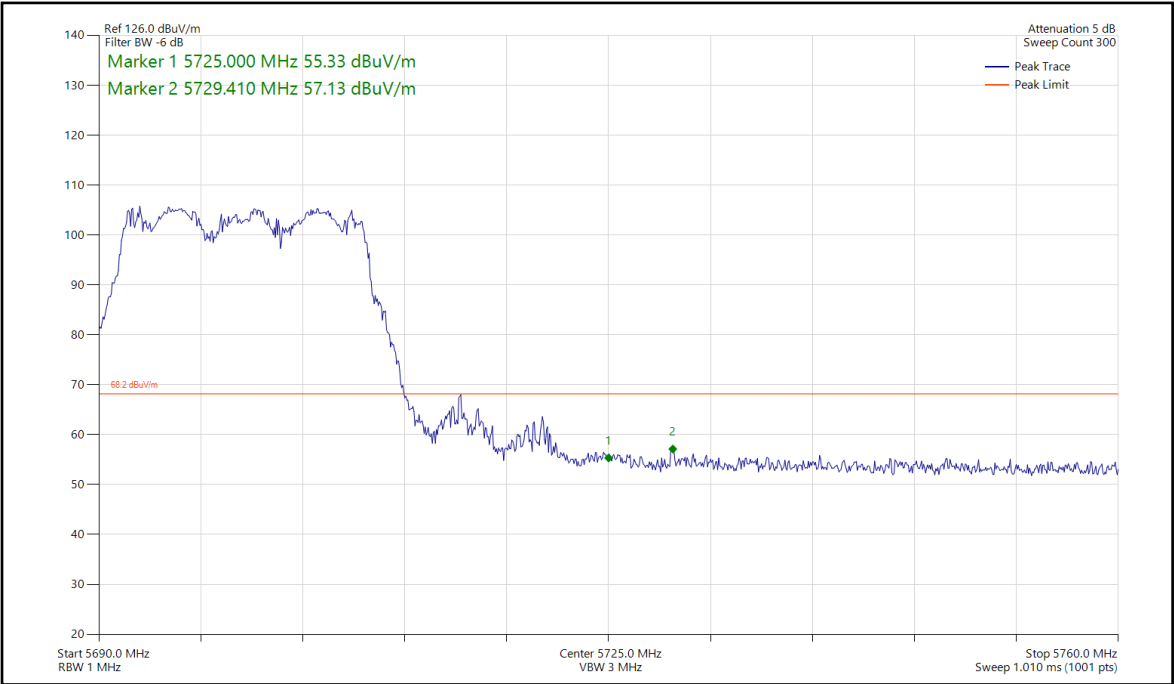


Figure 4 - CH140_802.11a, 5700 MHz, Band Edge Frequency 5725 MHz

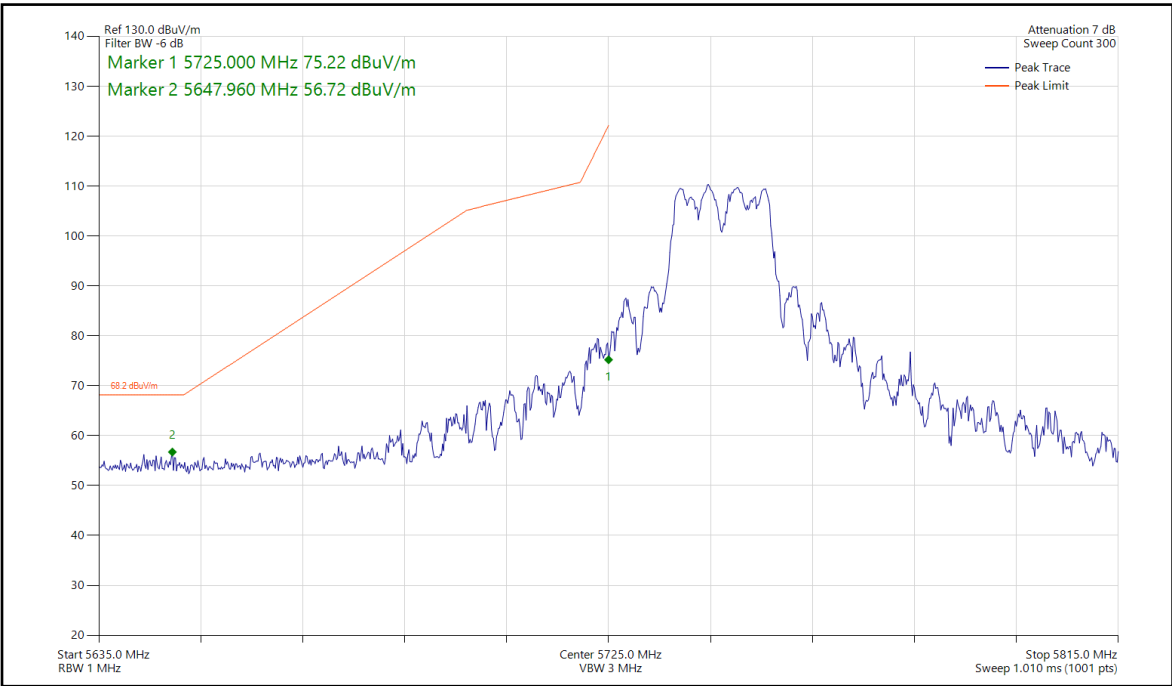


Figure 5 - CH149_802.11a, 5745 MHz, Band Edge Frequency 5725 MHz

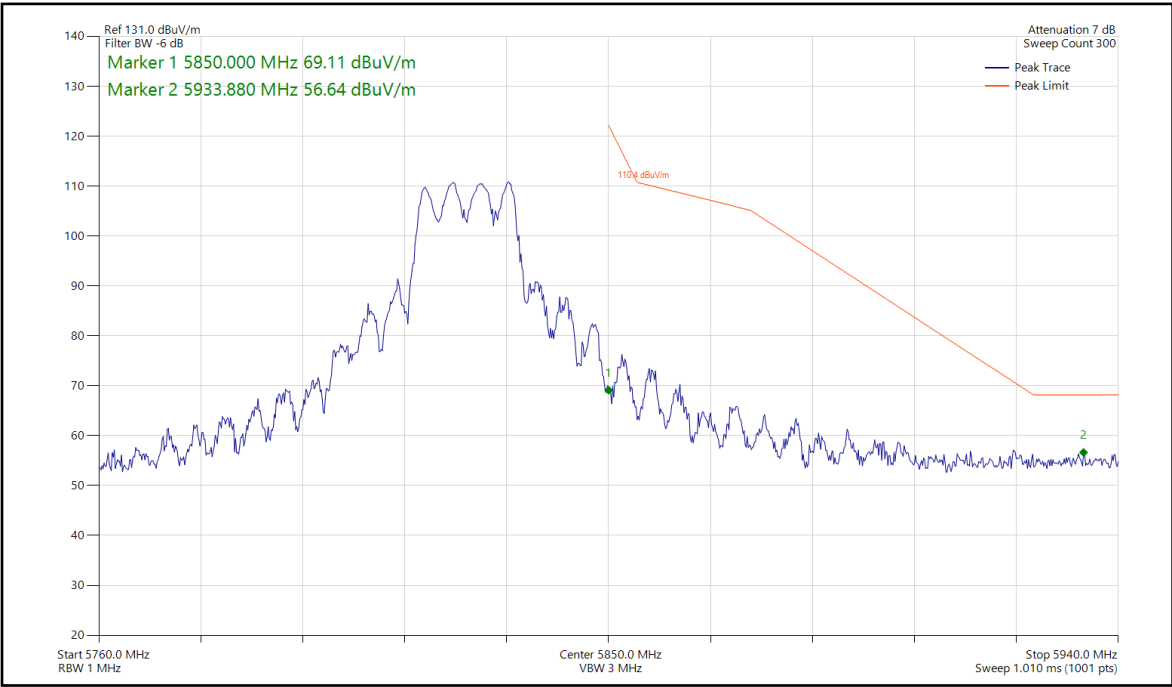


Figure 6 - CH165_802.11a, 5825 MHz, Band Edge Frequency 5850 MHz



5GHz WLAN, 802.11n

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBuV/m)
802.11n	MCS8	5180	5150	60.60
802.11n	MCS8	5320	5350	61.68
802.11n	MCS8	5500	5470	57.53
802.11n	MCS8	5700	5725	58.37
802.11n	MCS8	5745	5725	56.19
802.11n	MCS8	5825	5850	57.91

Table 58

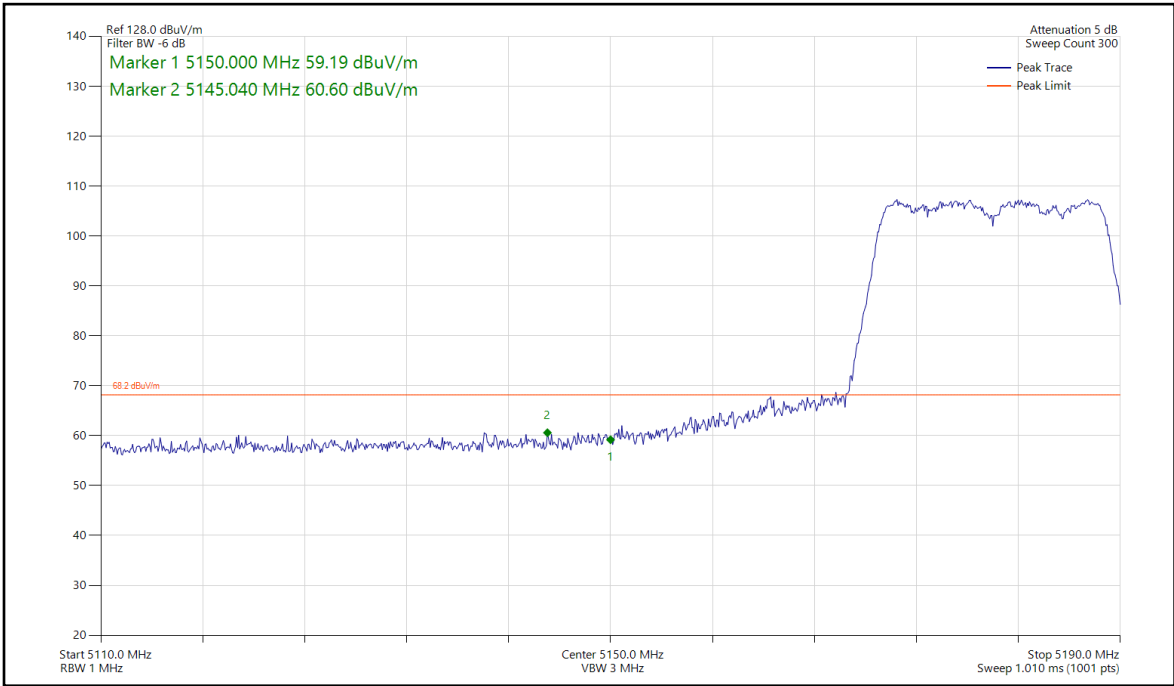


Figure 7 - CH36_HT20, 5180 MHz, Band Edge Frequency 5150 MHz

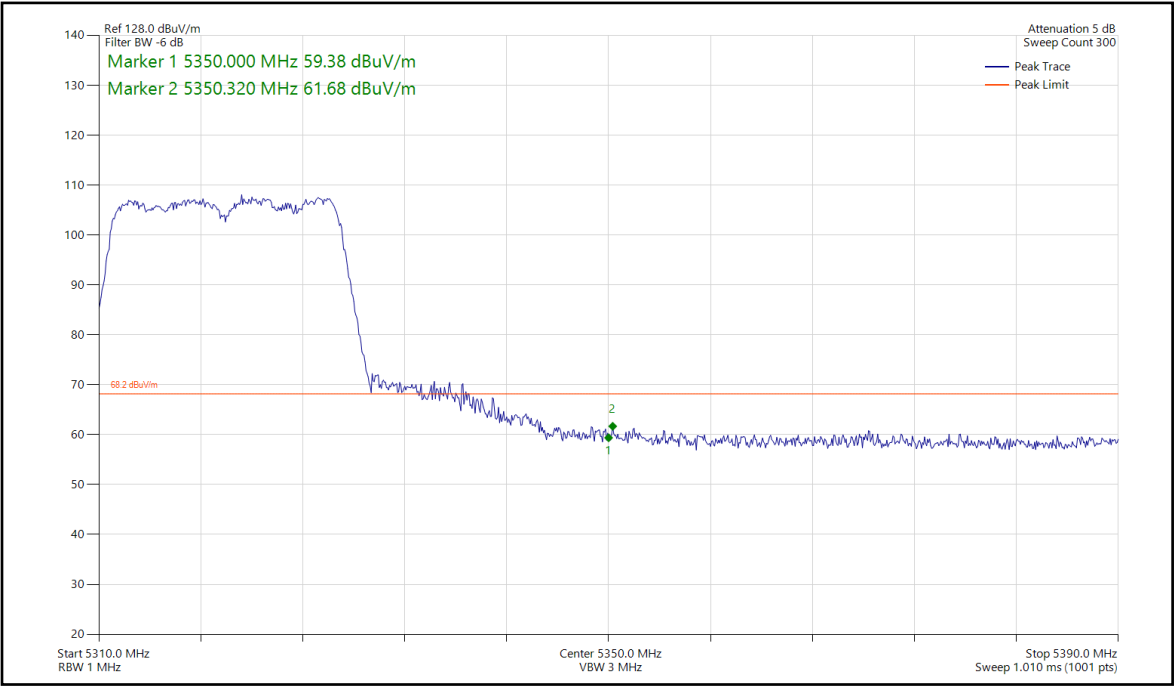


Figure 8 - CH64_HT20, 5320 MHz, Band Edge Frequency 5350 MHz

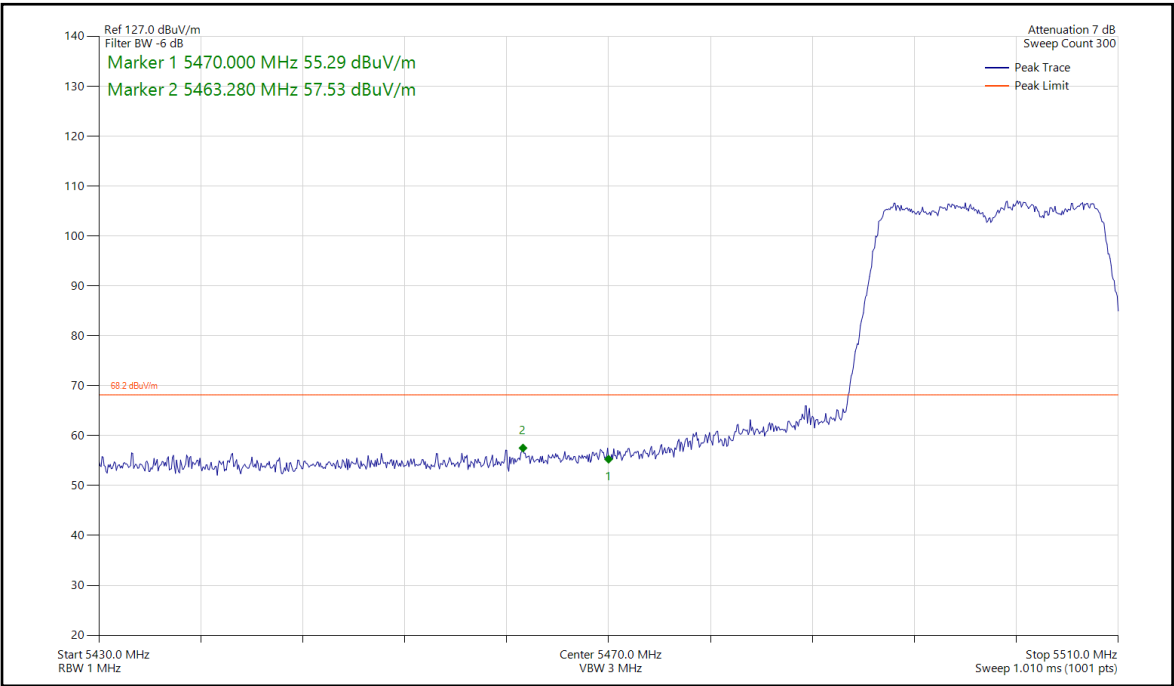


Figure 9 - CH100_HT20, 5500 MHz, Band Edge Frequency 5470 MHz

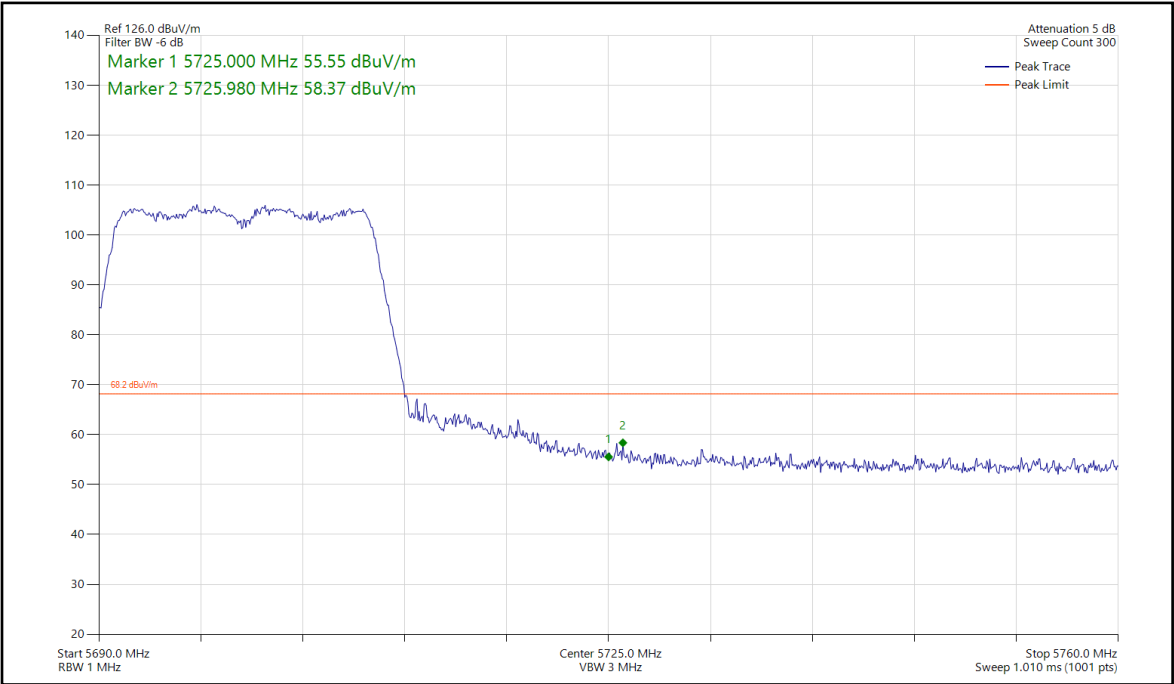


Figure 10 - CH140_HT20, 5700 MHz, Band Edge Frequency 5725 MHz

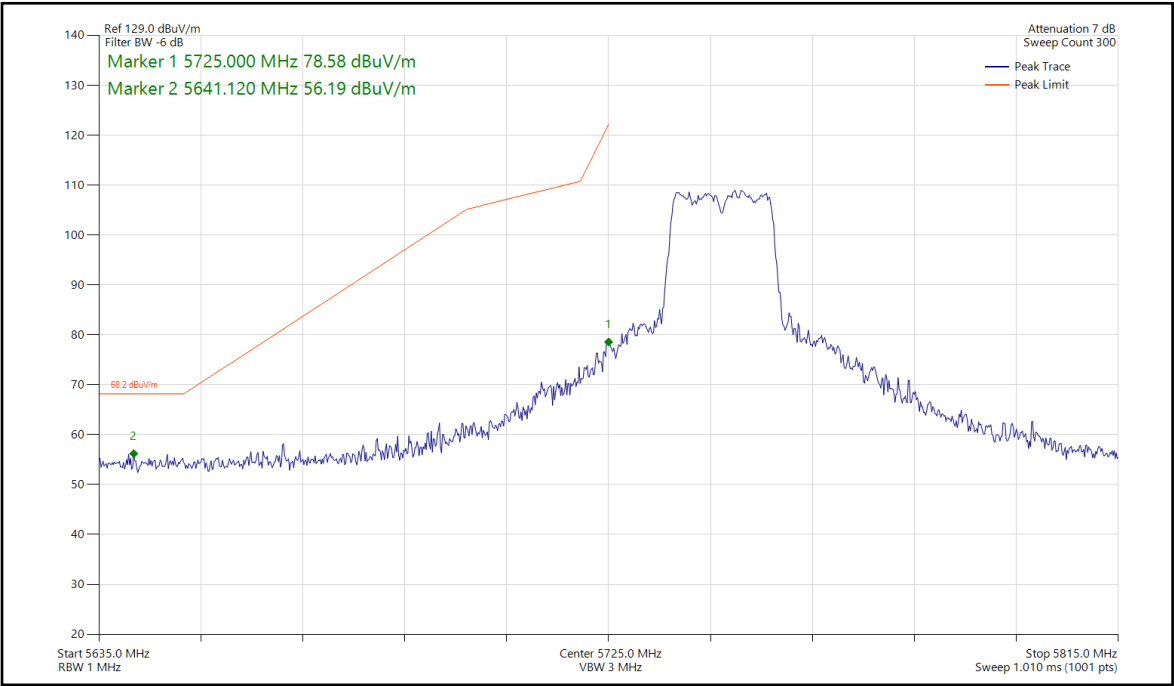


Figure 11 - CH149_HT20, 5745 MHz, Band Edge Frequency 5725 MHz

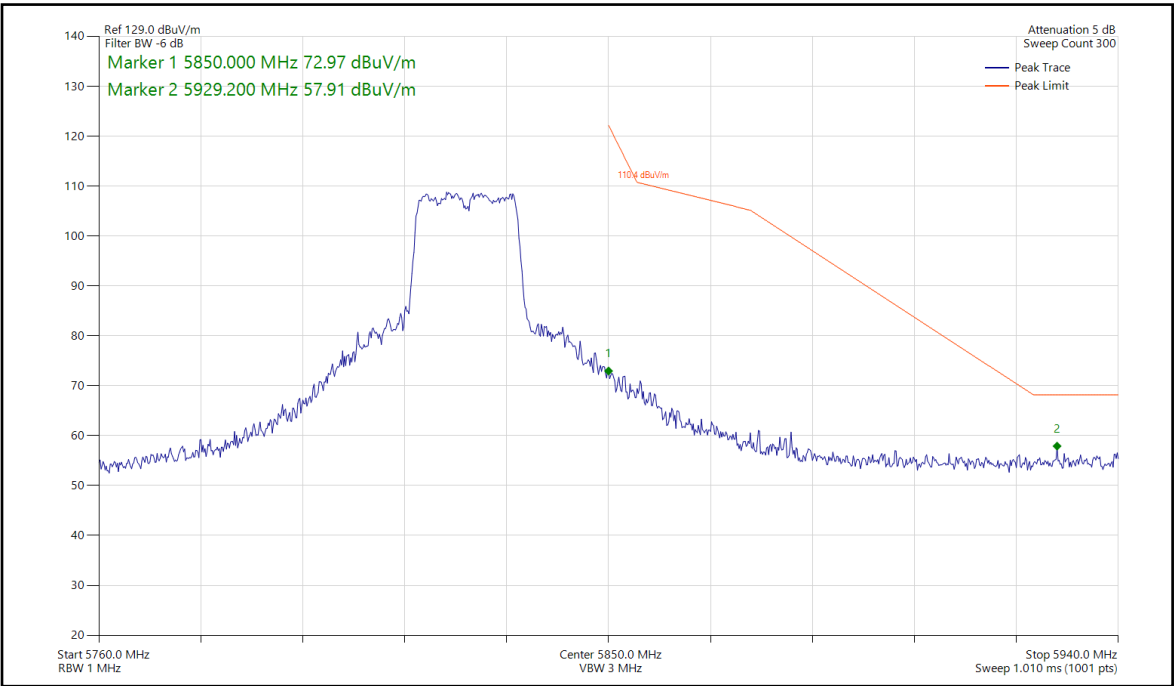


Figure 12 - CH165_HT20, 5825 MHz, Band Edge Frequency 5850 MHz



FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band: ≤ -27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band: ≤ -27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band: ≤ -27 dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: 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.

ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.2 and 6.2.5.3

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.

Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.



2.2.7 Test Location and Test Equipment Used

This test was carried out in EMC Laboratory 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	Rainford	RF Chamber 5	1545	36	23-Apr-2027
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Mast Controller	Maturo GmbH	NCD	4810	-	TU
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	4848	12	14-Jul-2025
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5517	12	23-May-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	26-Jul-2025
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/B	6330	12	17-Feb-2025
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/B	6331	12	17-Feb-2025

Table 59

TU - Traceability Unscheduled



2.3 Restricted Band Edges

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.205
ISED RSS-247, Clause 3.3
ISED RSS-GEN, Clause 8.10

2.3.2 Equipment Under Test and Modification State

L1P-2, S/N: 1LD2428L01001X - Modification State 0

2.3.3 Date of Test

13-February-2025

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.5.

The DUT was Battery Powered.

The measurements displayed within this report, have been limited to those modes which have been shown to be worst case which were:

802.11a MIMO Antenna Port A & B, 6Mbps
802.11n MIMO Antenna Port A & B, MCS8

2.3.5 Environmental Conditions

Ambient Temperature	20.6 °C
Relative Humidity	42.3 %



2.3.6 Test Results

5GHz WLAN, 802.11a

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11a	6Mbps	5180	5150	62.03	50.82
802.11a	6Mbps	5320	5350	61.05	50.69
802.11a	6Mbps	5500	5460	56.73	46.51

Table 60

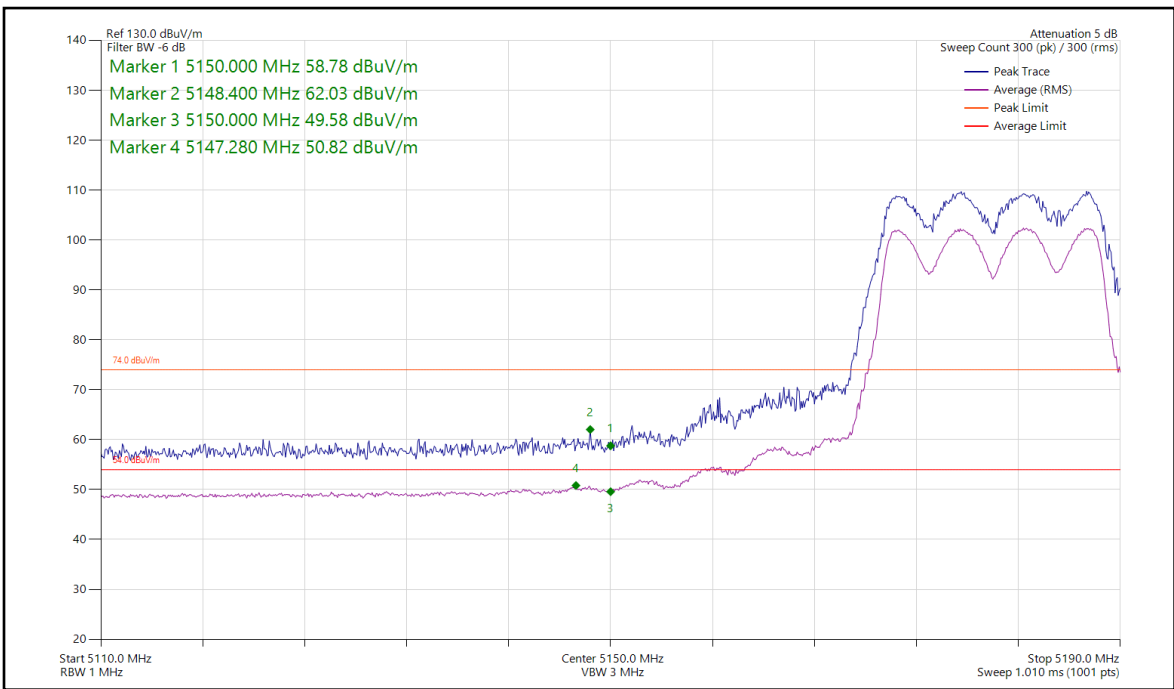


Figure 13 - CH36_802.11a, 5180 MHz, Band Edge Frequency 5150 MHz

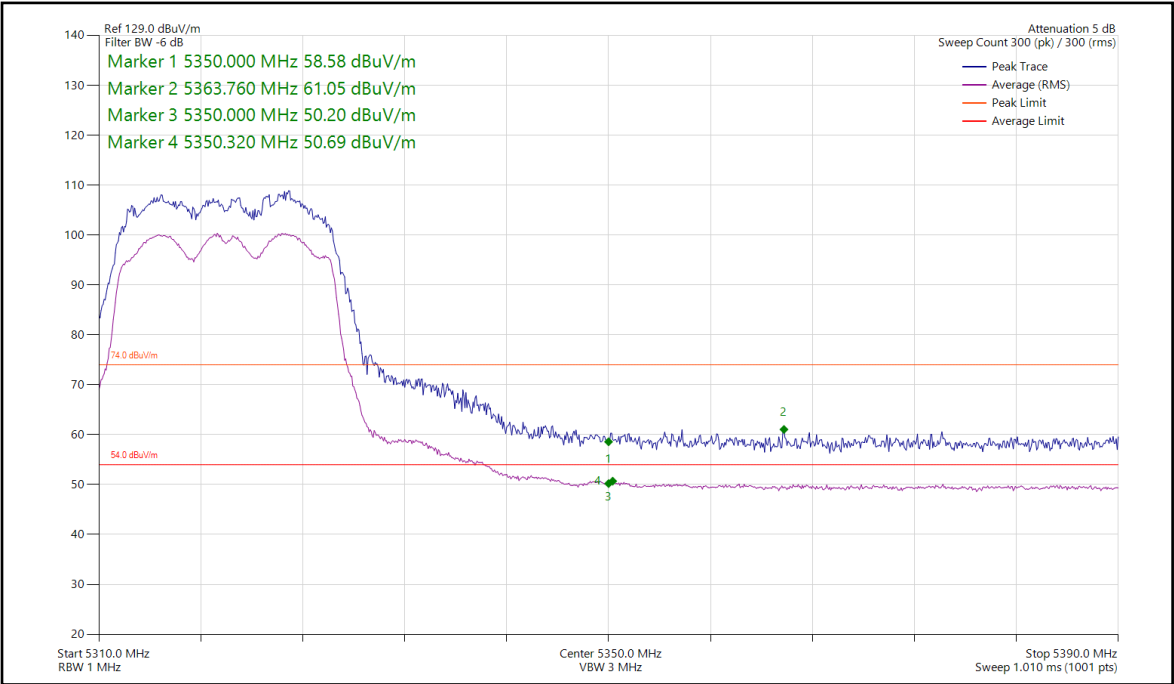


Figure 14 - CH64_802.11a, 5320 MHz, Band Edge Frequency 5350 MHz

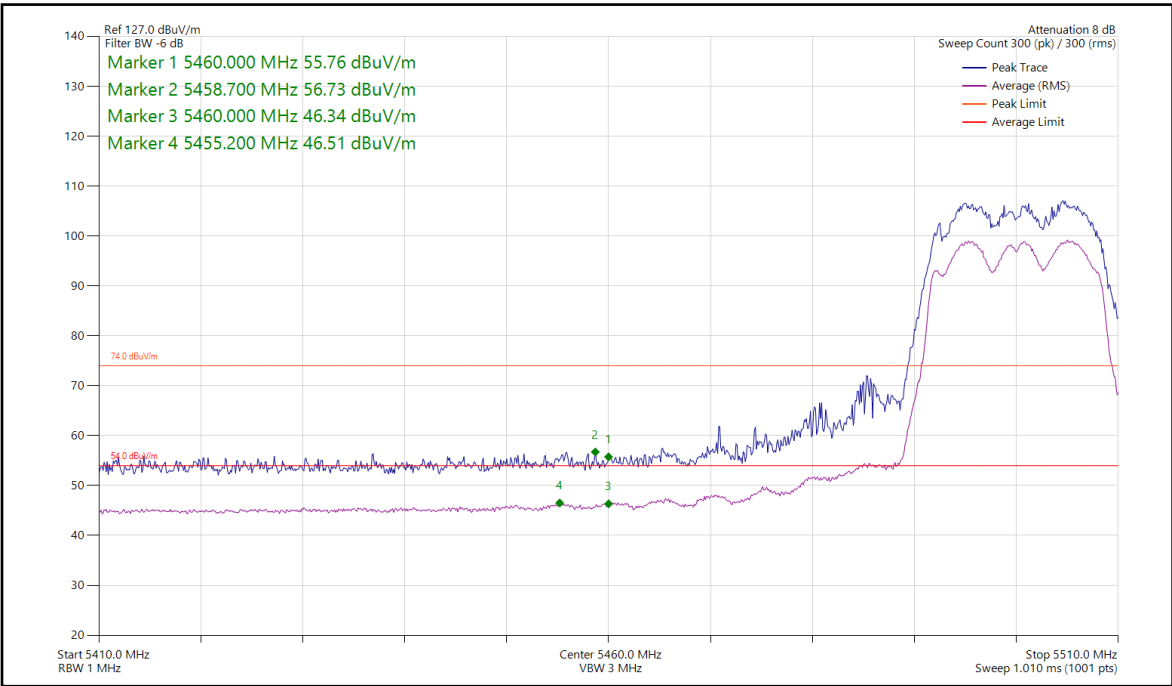


Figure 15 - CH100_802.11a, 5500 MHz, Band Edge Frequency 5460 MHz



5GHz WLAN, 802.11n

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11n	MCS8	5180	5150	60.54	50.84
802.11n	MCS8	5320	5350	61.17	51.08
802.11n	MCS8	5500	5460	56.30	46.28

Table 61

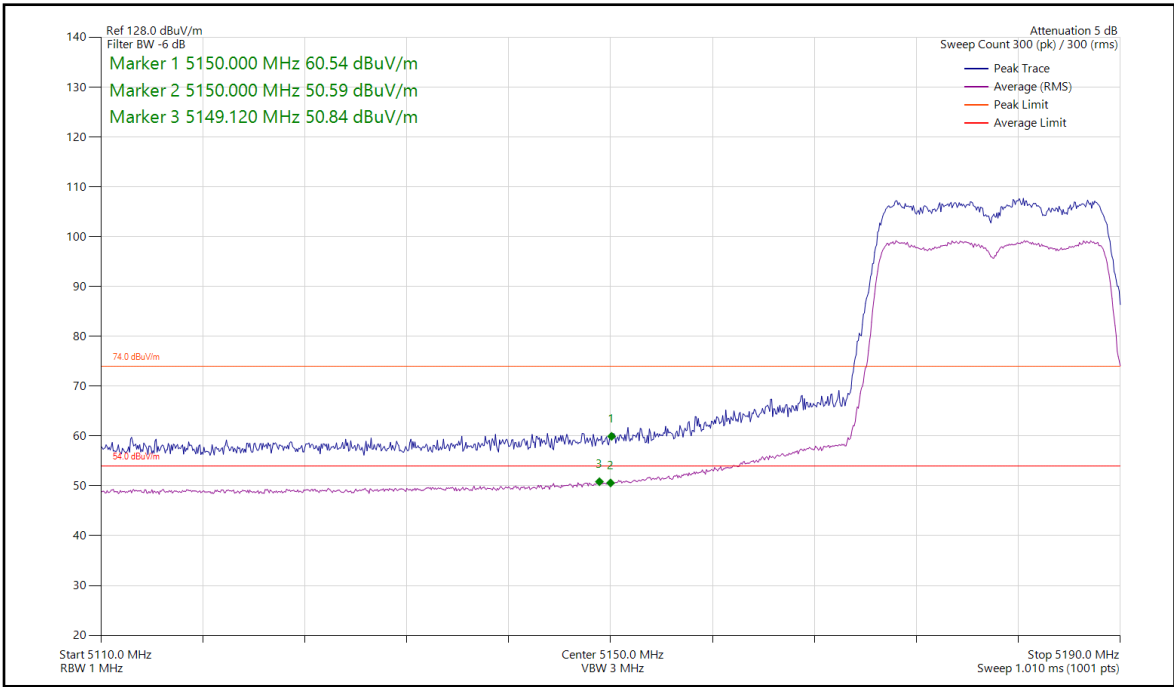


Figure 16 - CH36_HT20, 5180 MHz, Band Edge Frequency 5150 MHz

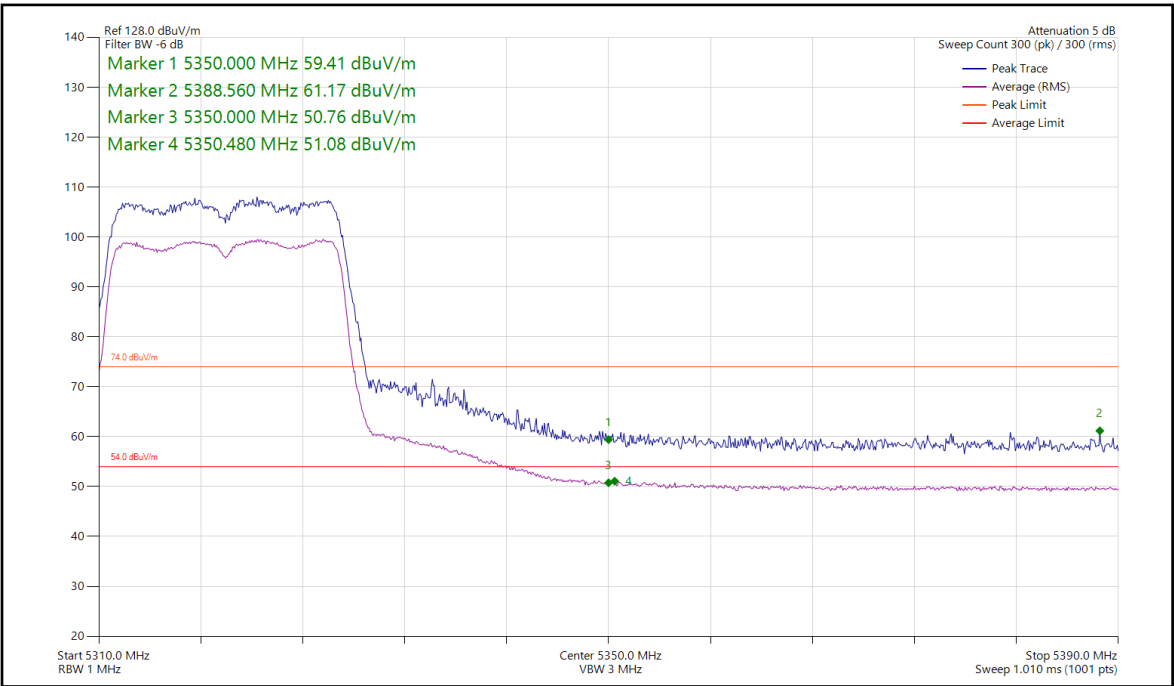


Figure 17 - CH64_HT20, 5320 MHz, Band Edge Frequency 5350 MHz

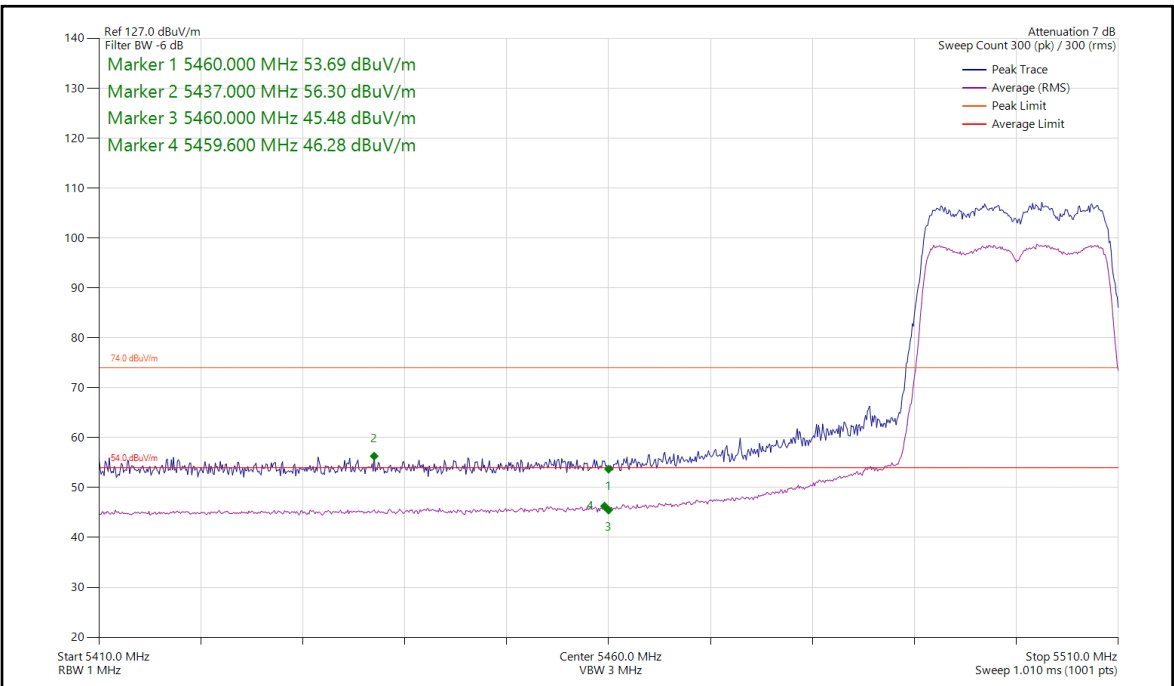


Figure 18 - CH100_HT20, 5500 MHz, Band Edge Frequency 5460 MHz



FCC 47 CFR Part 15, Limit Clause 15.205 and ISED RSS-GEN Limit Clause 8.10

	Peak (dBµV/m)	Average (dBµV/m)
Restricted Bands of Operation	74	54

Table 62 - Restricted Band Edge Limit Table



2.3.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	Rainford	RF Chamber 5	1545	36	23-Apr-2027
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Mast Controller	Maturo GmbH	NCD	4810	-	TU
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	4848	12	14-Jul-2025
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5517	12	23-May-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	26-Jul-2025
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/B	6330	12	17-Feb-2025

Table 63

TU - Traceability Unscheduled



2.4 Spurious Radiated Emissions

2.4.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 & 15.407 (b)
ISED RSS-247, Clause 6.2 and 6.13
ISED RSS-GEN, Clause 8.9

2.4.2 Equipment Under Test and Modification State

L1P-2, S/N: 1LD2428L01001X - Modification State 0

2.4.3 Date of Test

10-January-2025 to 17-February-2025

2.4.4 Test Method

Testing was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

The DUT was Battery Powered.

All testing was performed using the lowest data rate/modulation scheme for the applicable mode since this was declared worst case by the customer which were:

802.11a MIMO Antenna Port A & B, 6Mbps
802.11n MIMO Antenna Port A & B, MCS8

Plots for average measurements were taken in accordance with ANSI C63.10, clause 12.7.7.2 with max-hold trace to characterize the EUT. Where emissions were detected, final average measurements were taken using trace averaging.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

EIRP was converted to field strength at 3m using the following formula:
 $\text{Field Strength (dBuV/m at 3 m)} = \text{EIRP (dBm)} + 95.2 \text{ dB}$

2.4.5 Test Setup Diagram

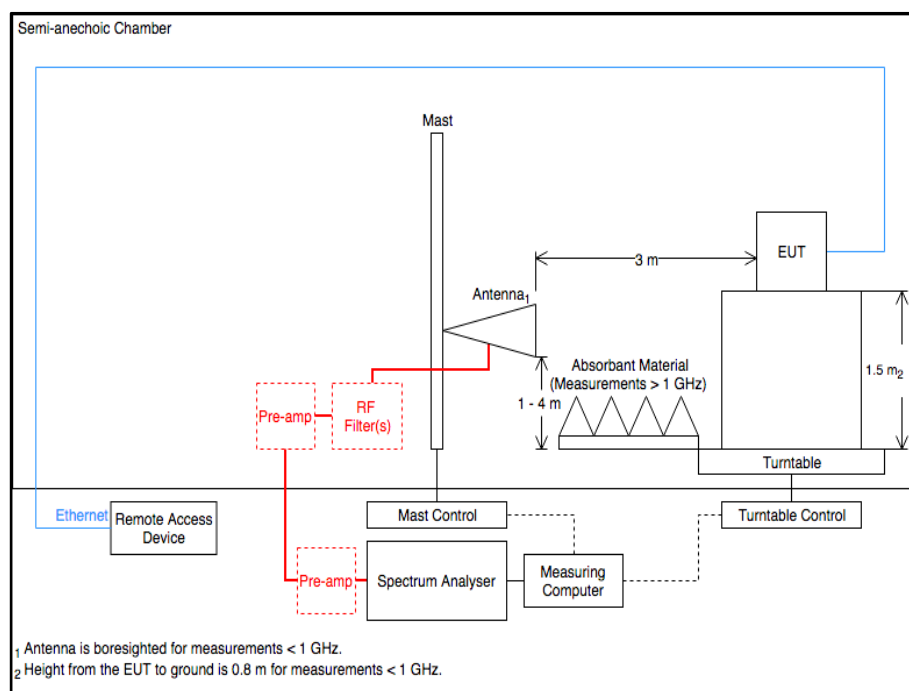


Figure 19 - Radiated Emissions Test Setup Diagram

2.4.6 Environmental Conditions

Ambient Temperature	19.8 - 21.6 °C
Relative Humidity	34.9 - 47.2 %



2.4.7 Test Results

5 GHz WLAN

Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
3600.010	42.25	54.00	-11.75	RMS	dBuV/m	106	181	Vertical
8399.700	45.13	54.00	-8.87	RMS	dBuV/m	282	153	Horizontal

Table 64 - CH36_802.11a_MIMO_6Mbps_Z, 5180 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

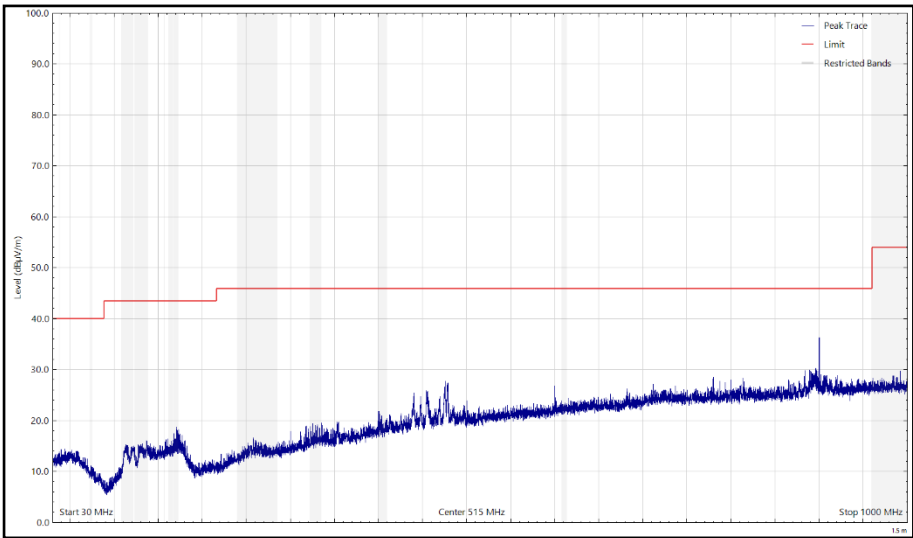


Figure 20 - CH36_802.11a_MIMO_6Mbps_Z, 5180 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

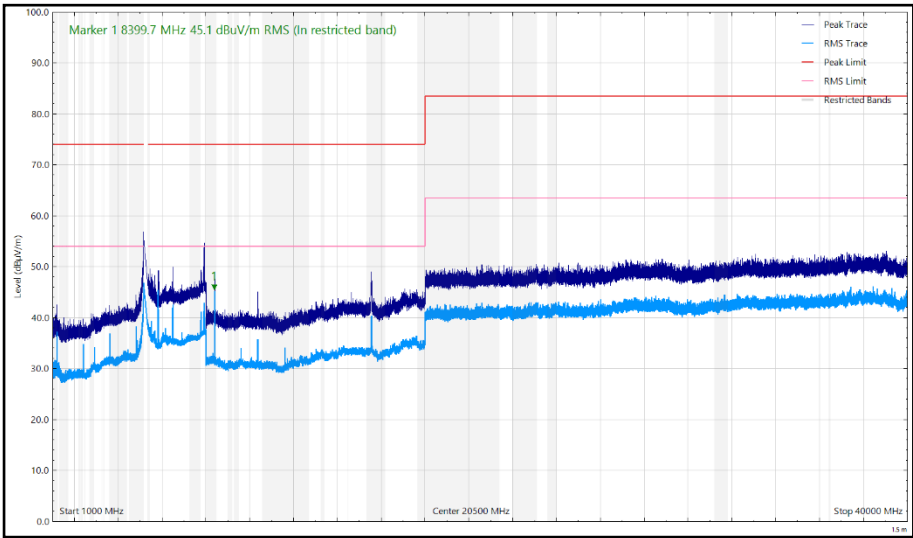


Figure 21 - CH36_802.11a_MIMO_6Mbps_Z, 5180 MHz, 1 GHz to 40 GHz, Horizontal

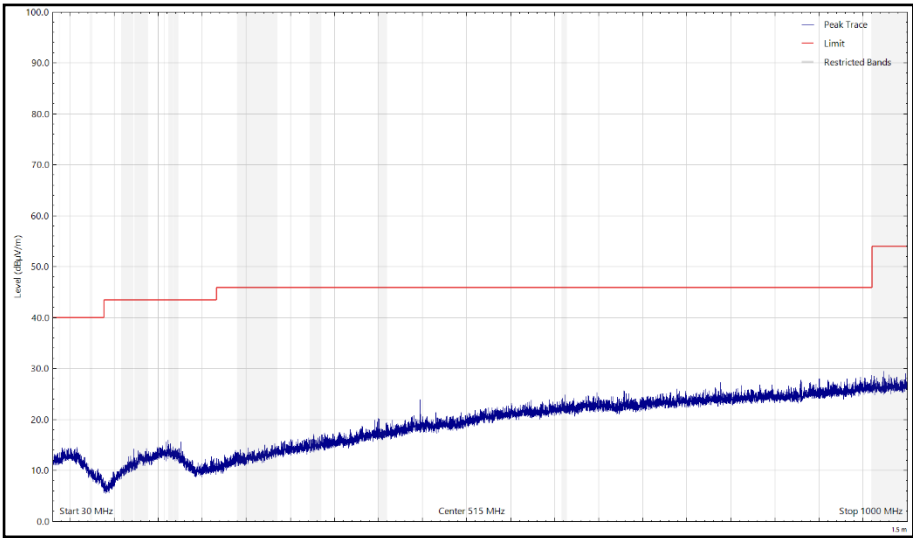


Figure 22 - CH36_802.11a_MIMO_6Mbps_Z, 5180 MHz, 30 MHz to 1 GHz, Vertical (Peak)

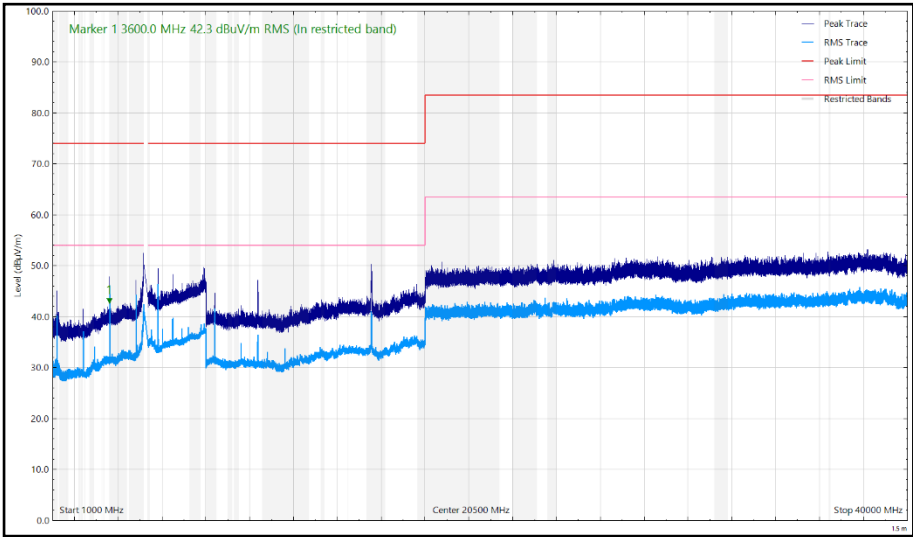


Figure 23 - CH36_802.11a_MIMO_6Mbps_Z, 5180 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.834	44.78	54.00	-9.22	RMS	dBuv/m	257	151	Vertical
8399.700	45.48	54.00	-8.52	RMS	dBuV/m	288	153	Horizontal

Table 65 - CH36_802.11a_MIMO_6Mbps_Y, 5180 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

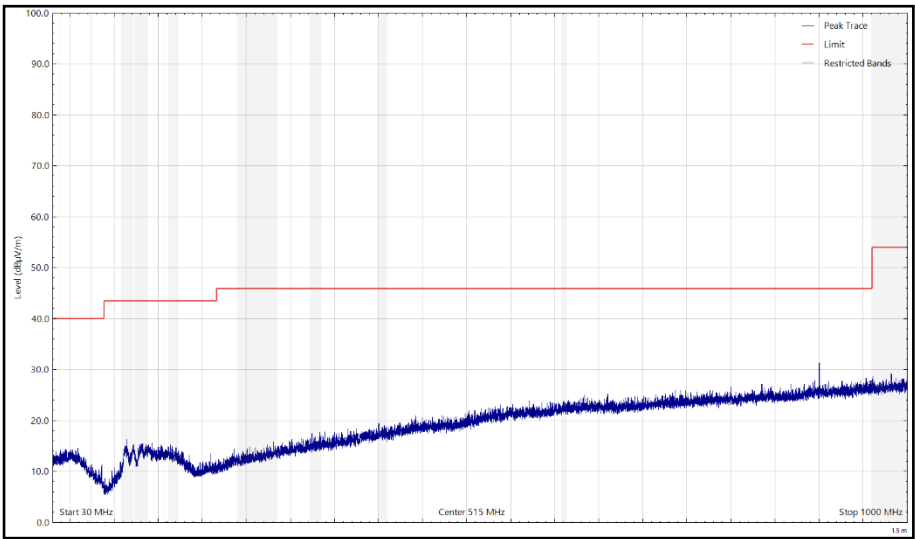


Figure 24 - CH36_802.11a_MIMO_6Mbps_Y, 5180 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

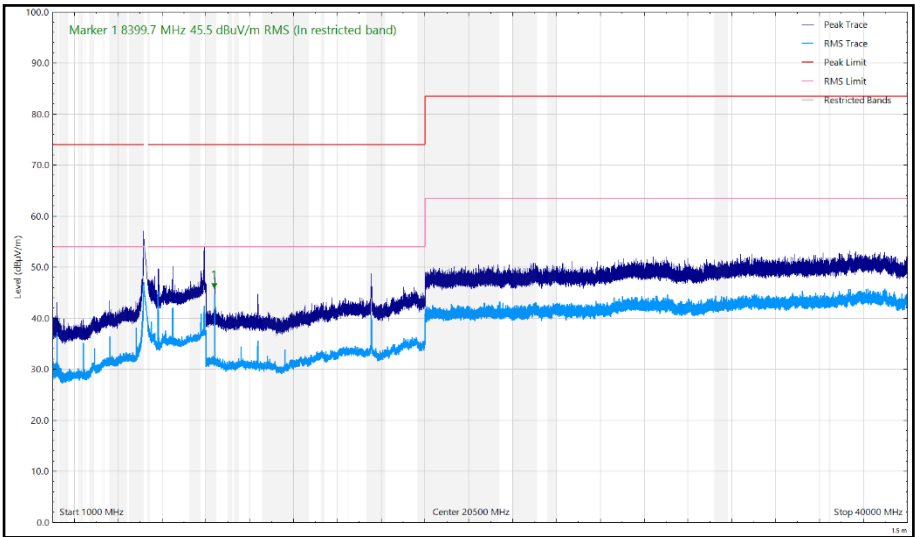


Figure 25 - CH36_802.11a_MIMO_6Mbps_Y, 5180 MHz, 1 GHz to 40 GHz, Horizontal

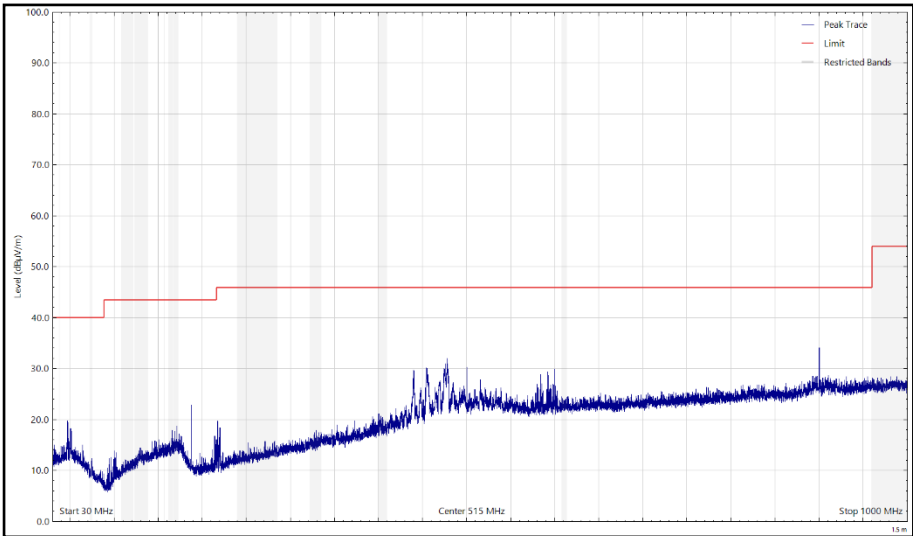


Figure 26 - CH36_802.11a_MIMO_6Mbps_Y, 5180 MHz, 30 MHz to 1 GHz, Vertical (Peak)

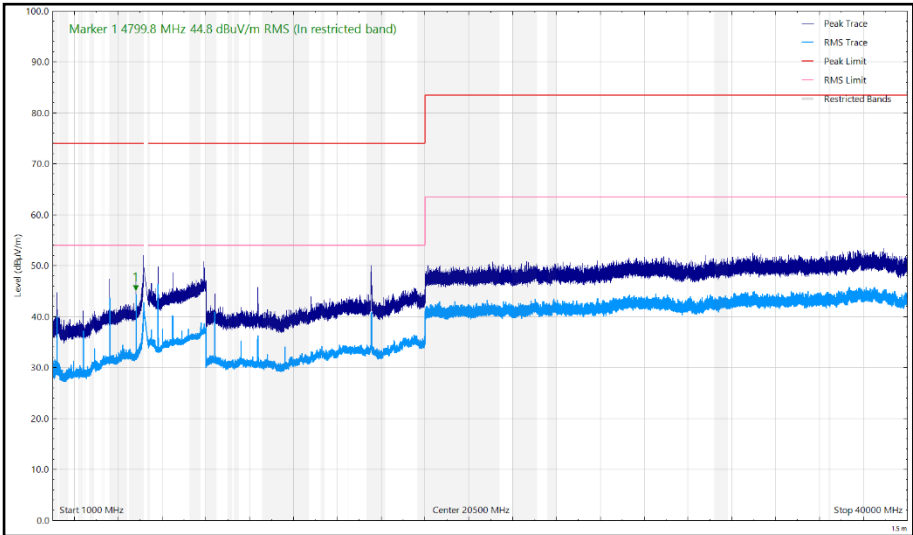


Figure 27 - CH36_802.11a_MIMO_6Mbps_Y, 5180 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.793	44.90	54.00	-9.10	RMS	dBuv/m	263	152	Vertical
8399.700	45.35	54.00	-8.65	RMS	dBuV/m	286	154	Horizontal

Table 66 - CH36_802.11a_MIMO_6Mbps_X, 5180 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

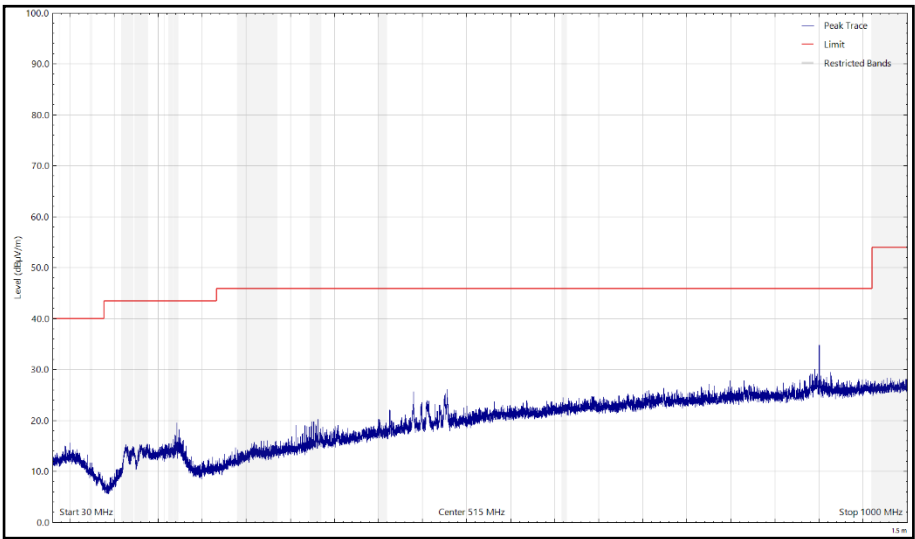


Figure 28 - CH36_802.11a_MIMO_6Mbps_X, 5180 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

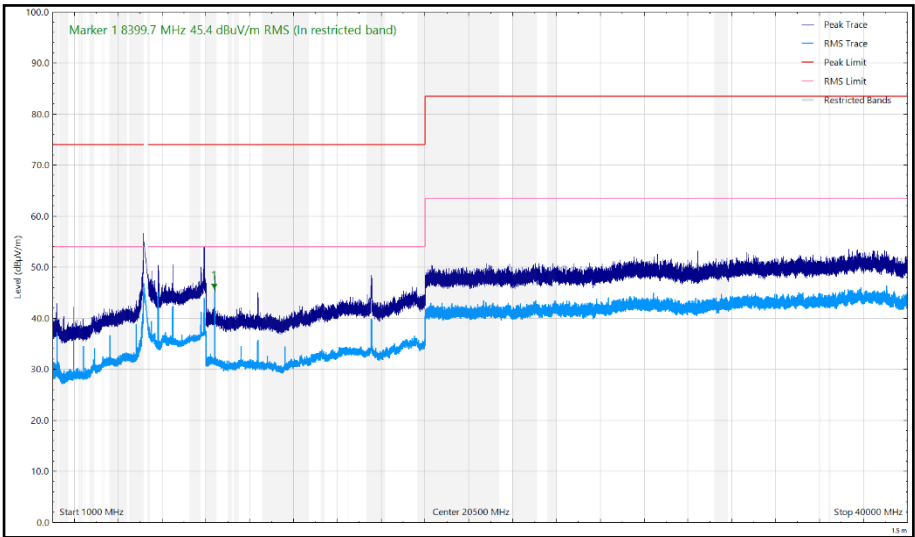


Figure 29 - CH36_802.11a_MIMO_6Mbps_X, 5180 MHz, 1 GHz to 40 GHz, Horizontal

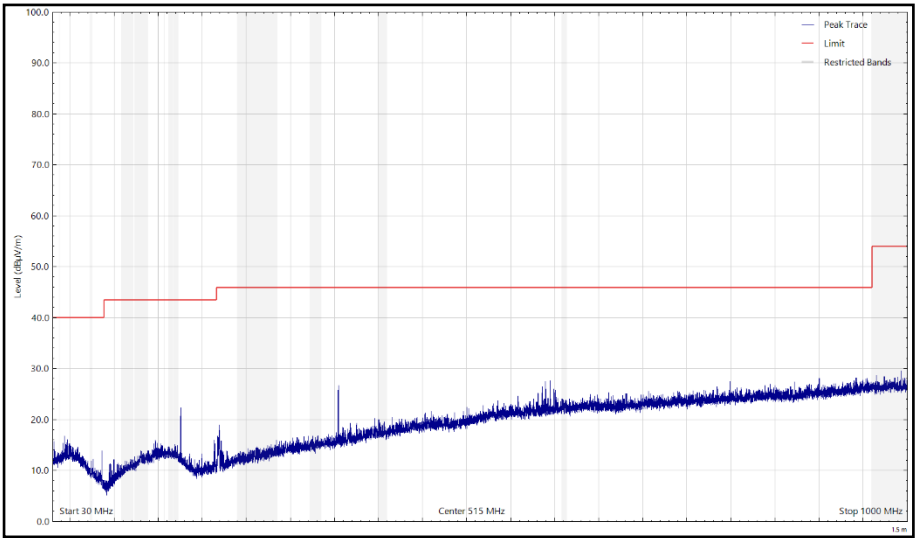


Figure 30 - CH36_802.11a_MIMO_6Mbps_X, 5180 MHz, 30 MHz to 1 GHz, Vertical (Peak)

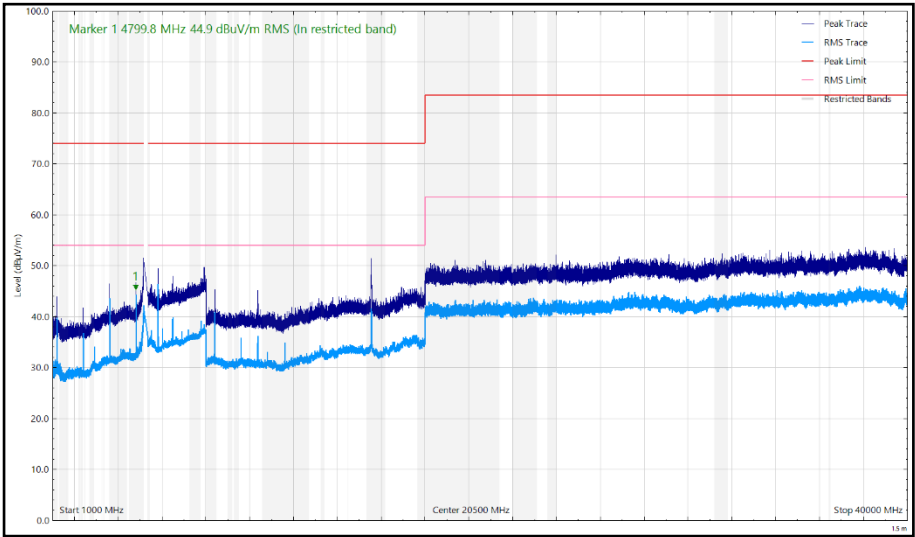


Figure 31 - CH36_802.11a_MIMO_6Mbps_X, 5180 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.834	45.09	54.00	-8.91	RMS	dBuv/m	258	152	Vertical
8399.700	45.22	54.00	-8.78	RMS	dBuV/m	285	150	Horizontal

Table 67 - CH64_802.11a_MIMO_6Mbps_Z, 5320 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

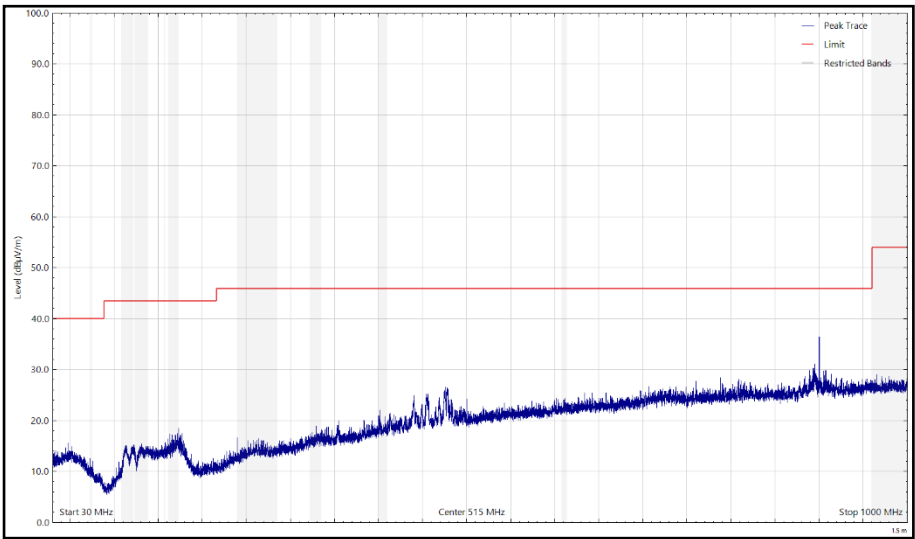


Figure 32 - CH64_802.11a_MIMO_6Mbps_Z, 5320 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

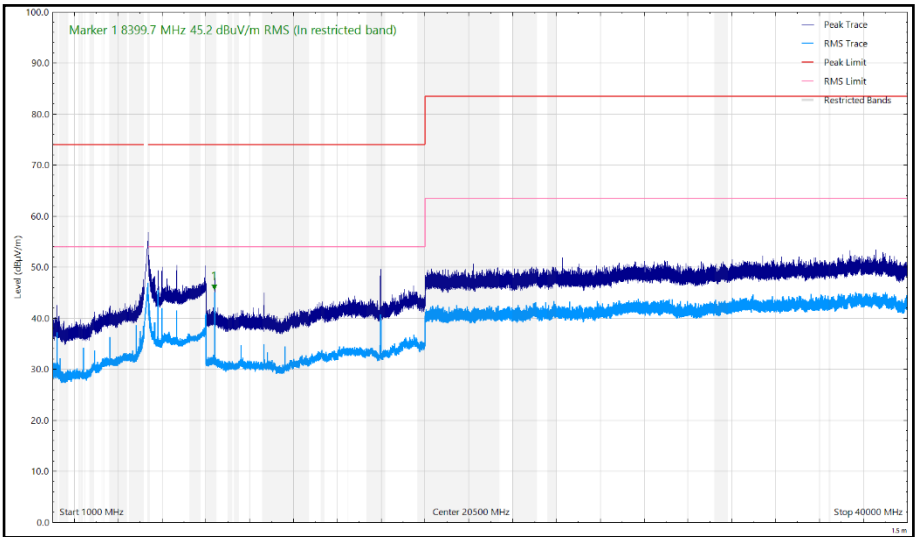


Figure 33 - CH64_802.11a_MIMO_6Mbps_Z, 5320 MHz, 1 GHz to 40 GHz, Horizontal

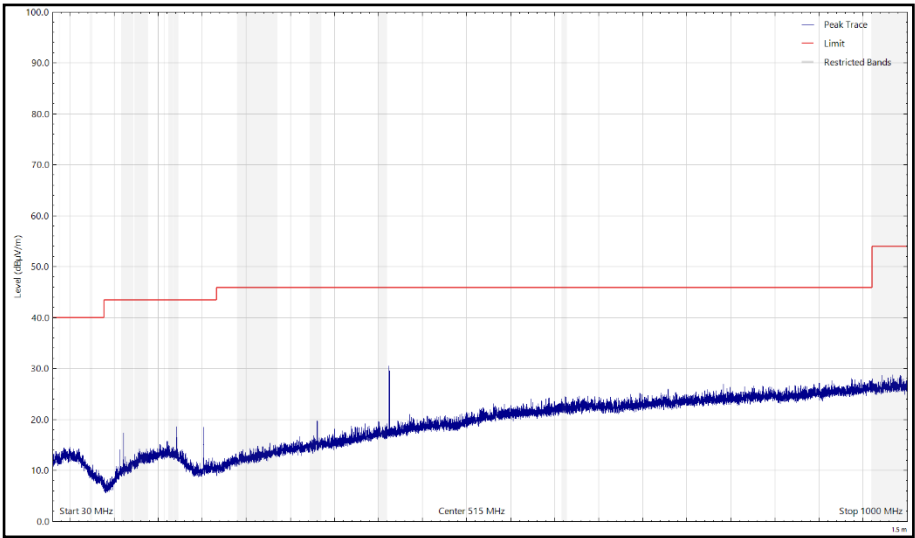


Figure 34 - CH64_802.11a_MIMO_6Mbps_Z, 5320 MHz, 30 MHz to 1 GHz, Vertical (Peak)

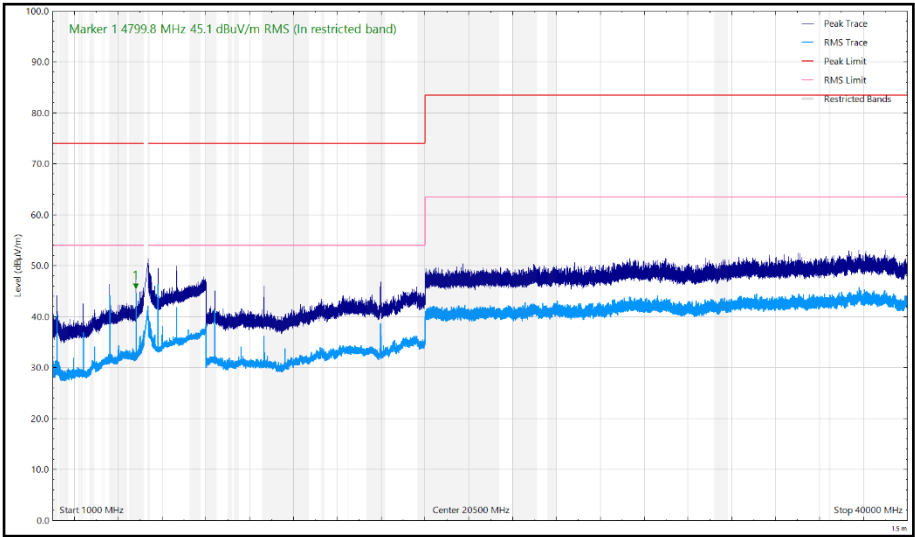


Figure 35 - CH64_802.11a_MIMO_6Mbps_Z, 5320 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.834	45.07	54.00	-8.93	RMS	dBuv/m	256	152	Vertical
8399.700	44.82	54.00	-9.18	RMS	dBuV/m	283	157	Horizontal

Table 68 - CH64_802.11a_MIMO_6Mbps_Y, 5320 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

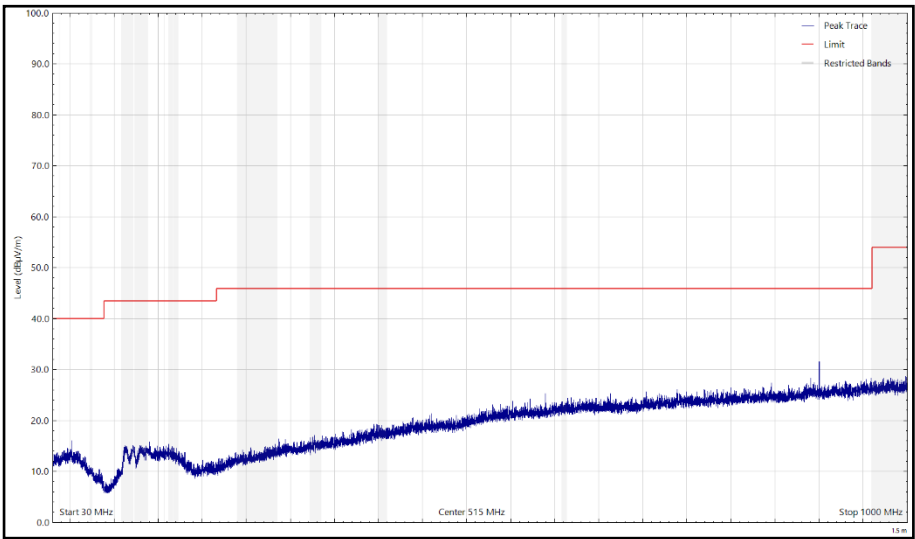


Figure 36 - CH64_802.11a_MIMO_6Mbps_Y, 5320 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

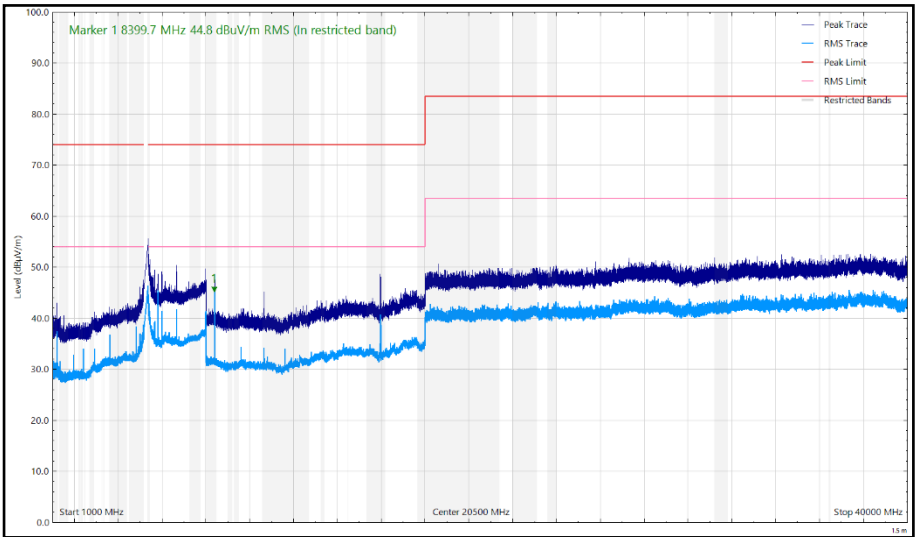


Figure 37 - CH64_802.11a_MIMO_6Mbps_Y, 5320 MHz, 1 GHz to 40 GHz, Horizontal

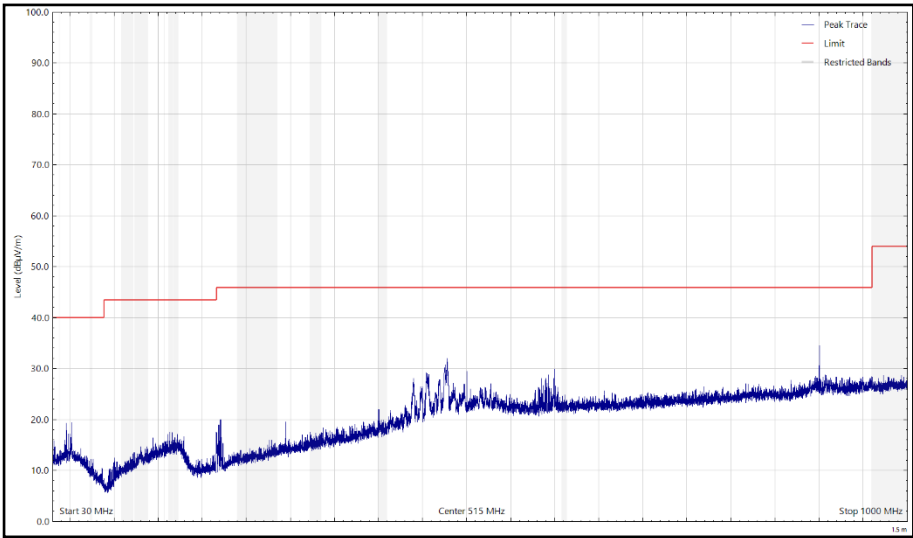


Figure 38 - CH64_802.11a_MIMO_6Mbps_Y, 5320 MHz, 30 MHz to 1 GHz, Vertical (Peak)

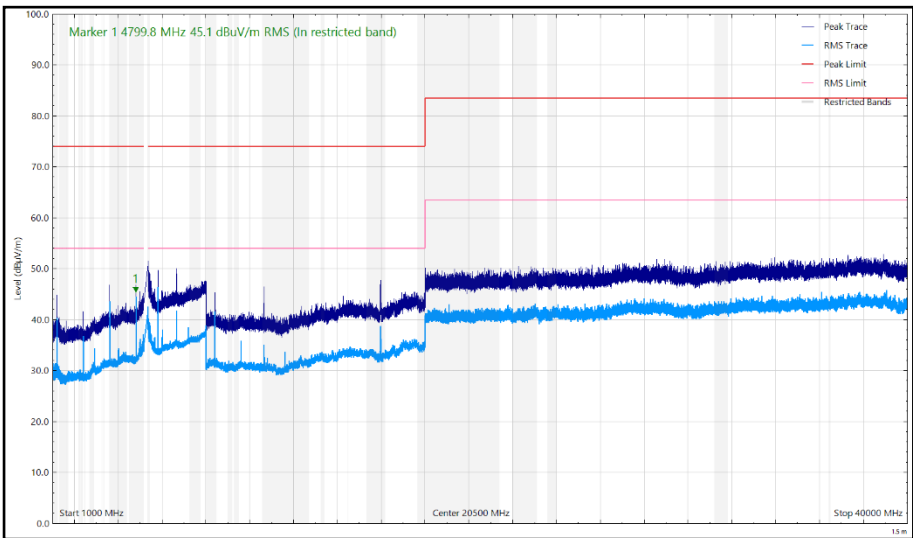


Figure 39 - CH64_802.11a_MIMO_6Mbps_Y, 5320 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.793	45.10	54.00	-8.90	RMS	dBuv/m	257	151	Vertical
8399.600	45.31	54.00	-8.69	RMS	dBuV/m	284	150	Horizontal

Table 69 - CH64_802.11a_MIMO_6Mbps_X, 5320 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

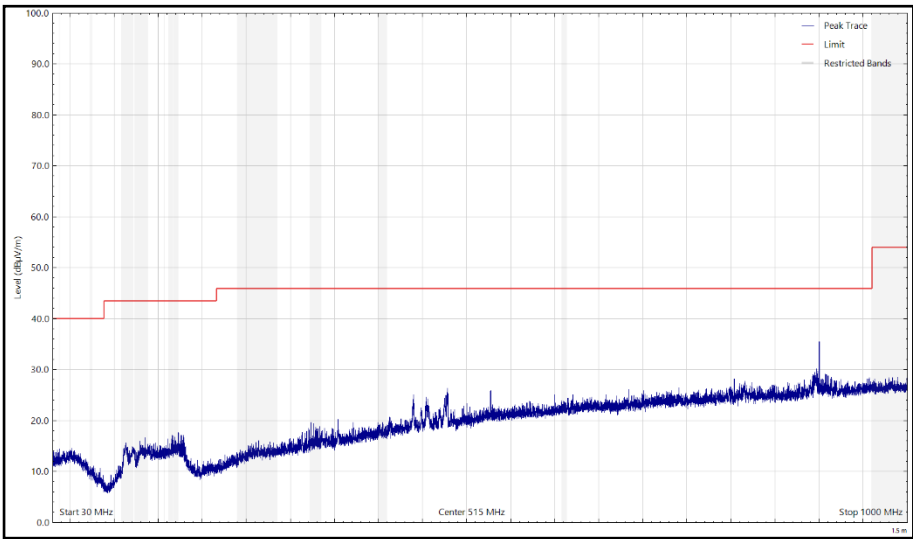


Figure 40 - CH64_802.11a_MIMO_6Mbps_X, 5320 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

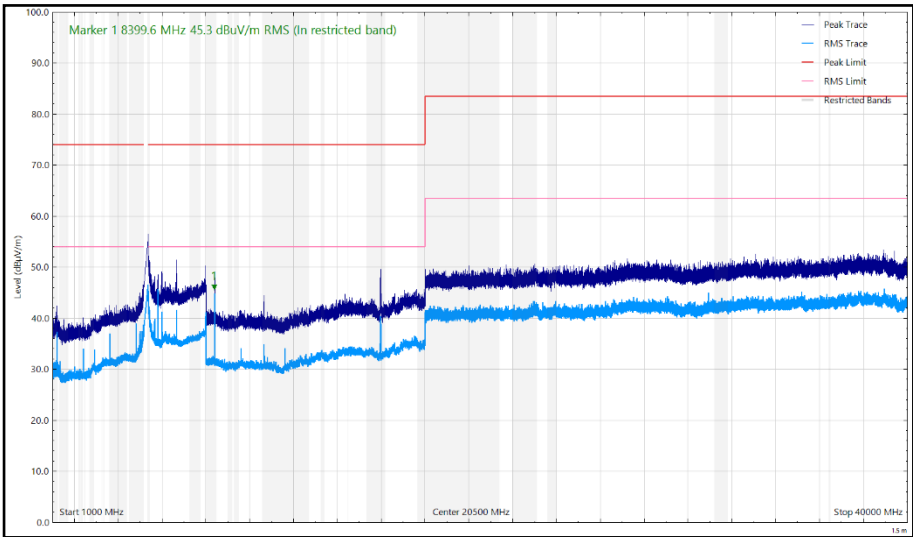


Figure 41 - CH64_802.11a_MIMO_6Mbps_X, 5320 MHz, 1 GHz to 40 GHz, Horizontal

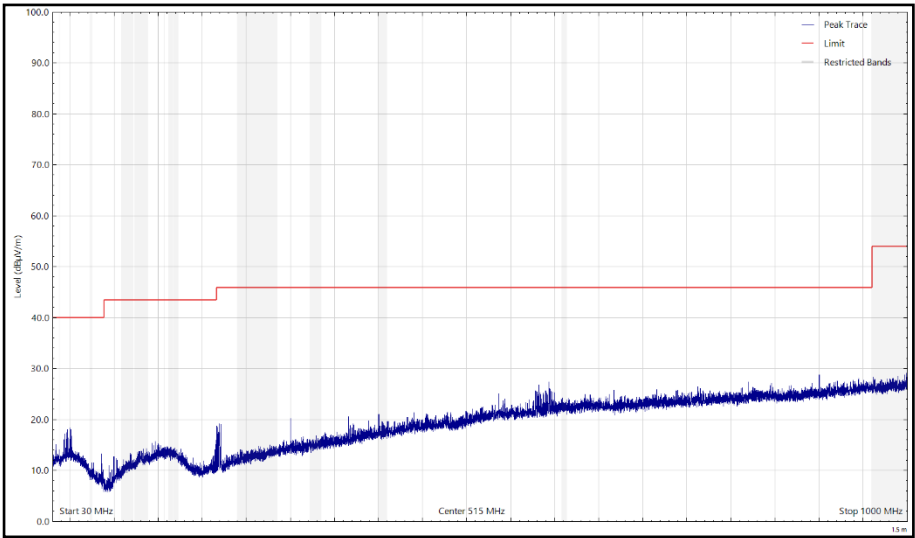


Figure 42 - CH64_802.11a_MIMO_6Mbps_X, 5320 MHz, 30 MHz to 1 GHz, Vertical (Peak)

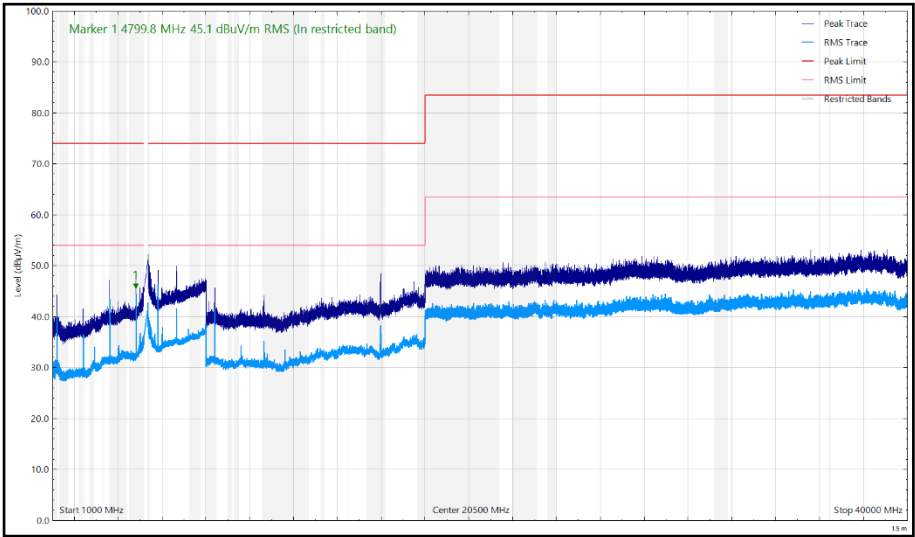


Figure 43 - CH64_802.11a_MIMO_6Mbps_X, 5320 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.821	44.95	54.00	-9.05	RMS	dBuv/m	266	150	Vertical
8399.700	44.93	54.00	-9.07	RMS	dBuV/m	285	153	Horizontal

Table 70 - CH100_802.11a_MIMO_6Mbps_Z, 5500 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

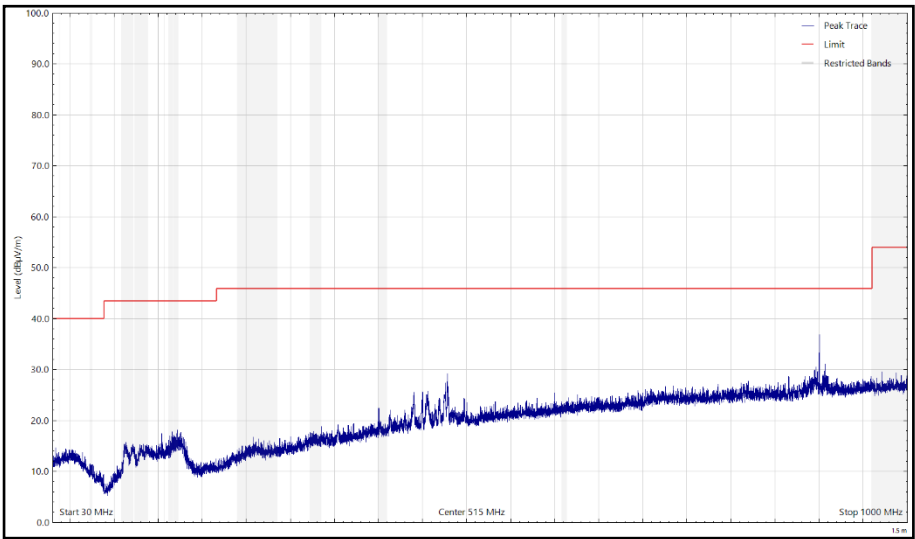


Figure 44 - CH100_802.11a_MIMO_6Mbps_Z, 5500 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

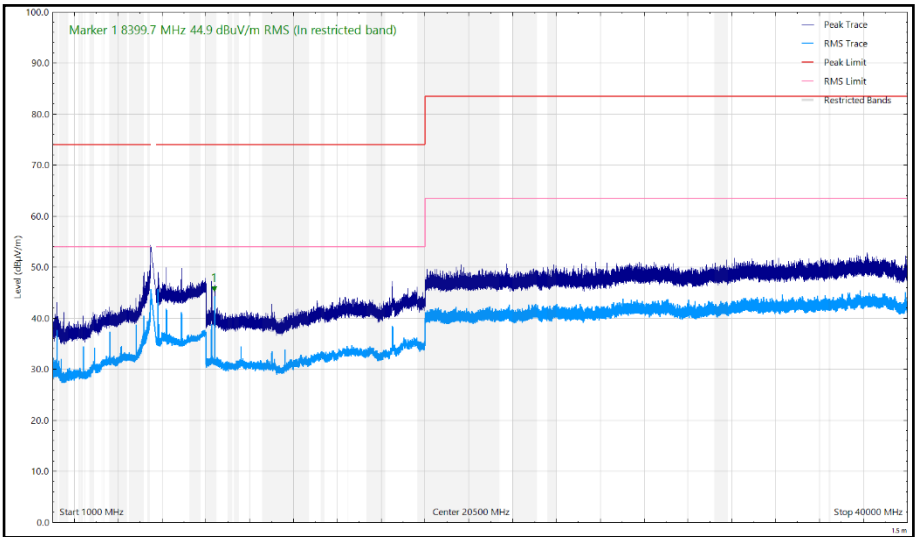


Figure 45 - CH100_802.11a_MIMO_6Mbps_Z, 5500 MHz, 1 GHz to 40 GHz, Horizontal

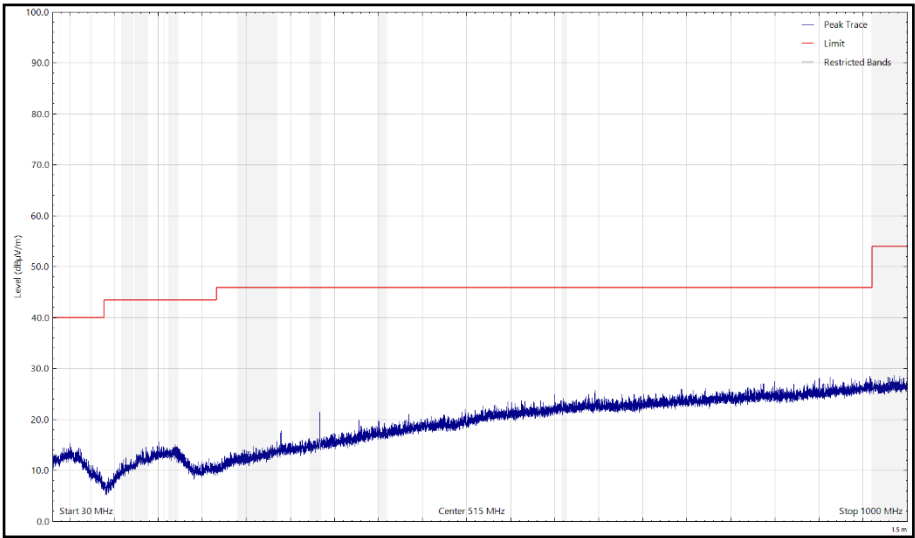


Figure 46 - CH100_802.11a_MIMO_6Mbps_Z, 5500 MHz, 30 MHz to 1 GHz, Vertical (Peak)

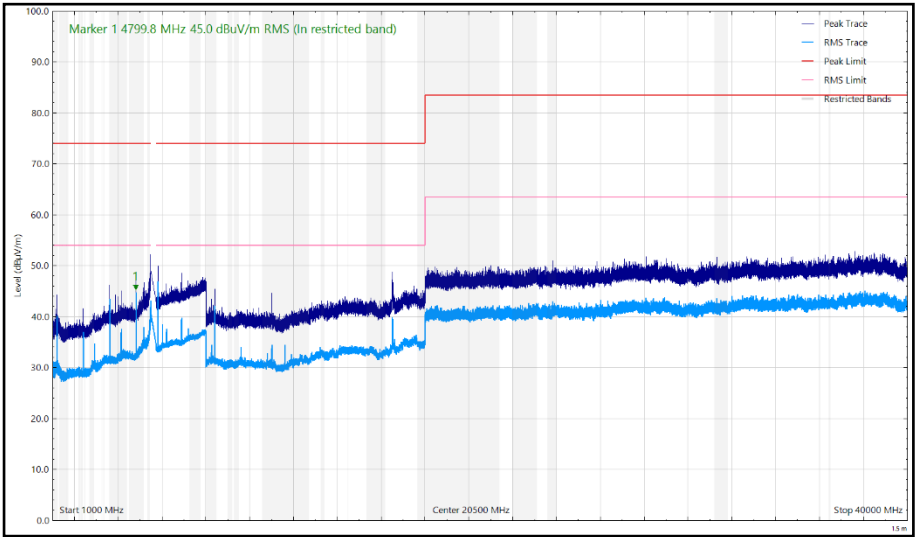


Figure 47 - CH100_802.11a_MIMO_6Mbps_Z, 5500 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
4799.821	44.85	54.00	-9.15	RMS	dBuV/m	269	150	Vertical
8399.699	44.77	54.00	-9.23	RMS	dBuV/m	286	160	Horizontal

Table 71 - CH100_802.11a_MIMO_6Mbps_Y, 5500 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

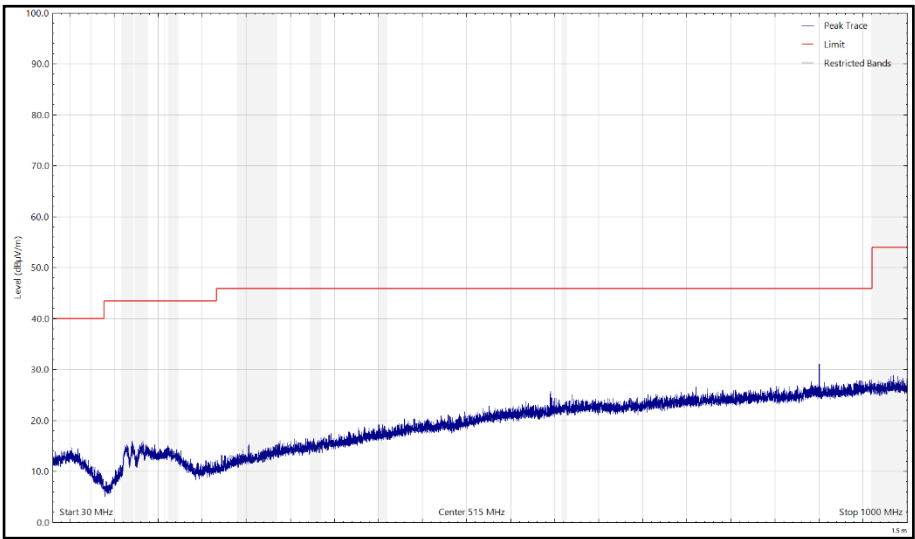


Figure 48 - CH100_802.11a_MIMO_6Mbps_Y, 5500 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

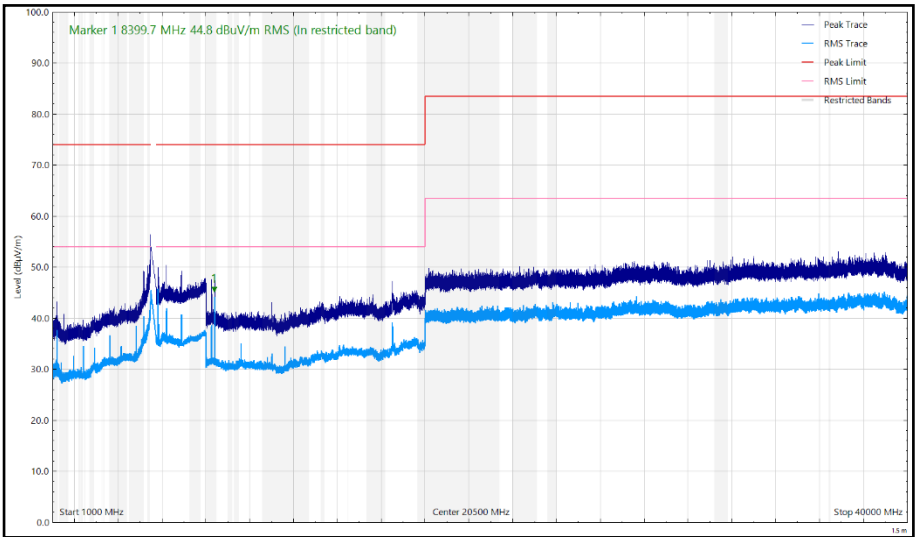


Figure 49 - CH100_802.11a_MIMO_6Mbps_Y, 5500 MHz, 1 GHz to 40 GHz, Horizontal

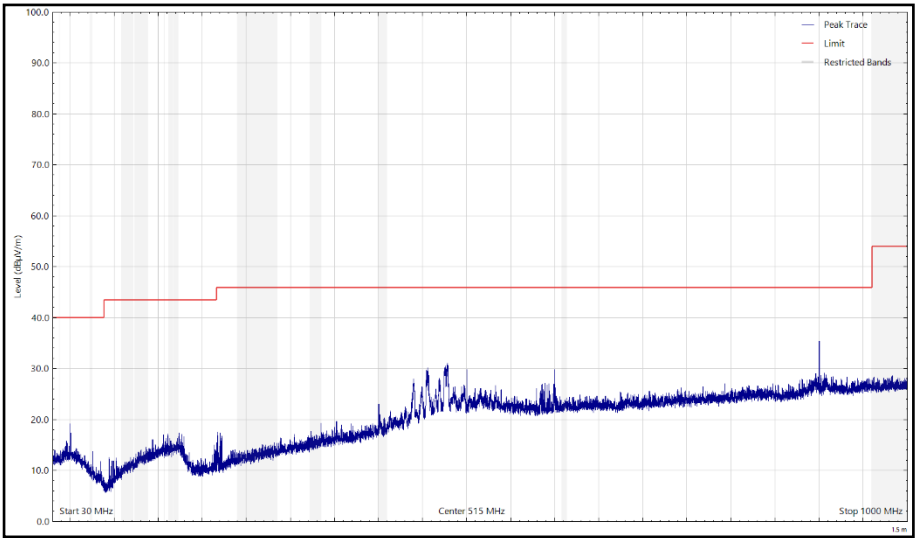


Figure 50 - CH100_802.11a_MIMO_6Mbps_Y, 5500 MHz, 30 MHz to 1 GHz, Vertical (Peak)

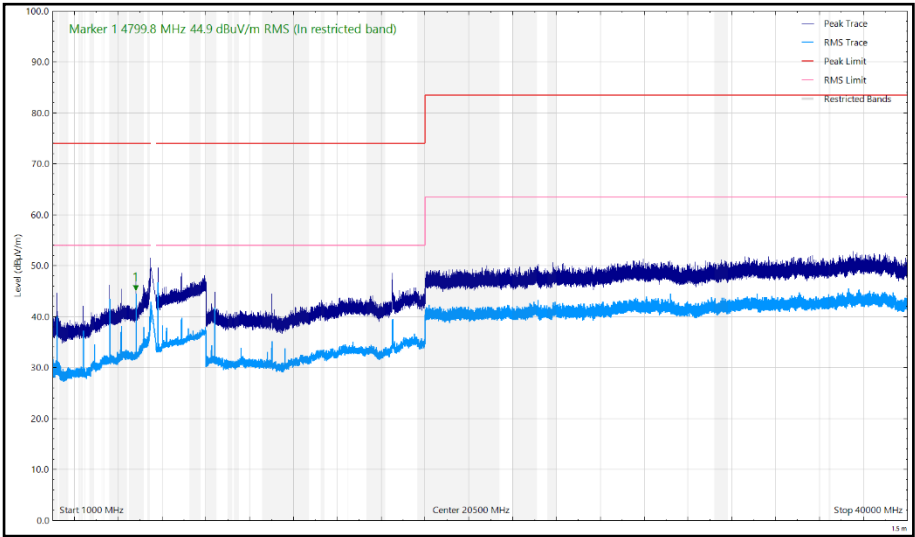


Figure 51 - CH100_802.11a_MIMO_6Mbps_Y, 5500 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
3600.011	42.48	54.00	-11.52	RMS	dBuv/m	110	150	Vertical
4799.821	44.85	54.00	-9.15	RMS	dBuv/m	264	150	Vertical
8399.700	44.97	54.00	-9.03	RMS	dBuV/m	287	151	Horizontal

Table 72 - CH100_802.11a_MIMO_6Mbps_X, 5500 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

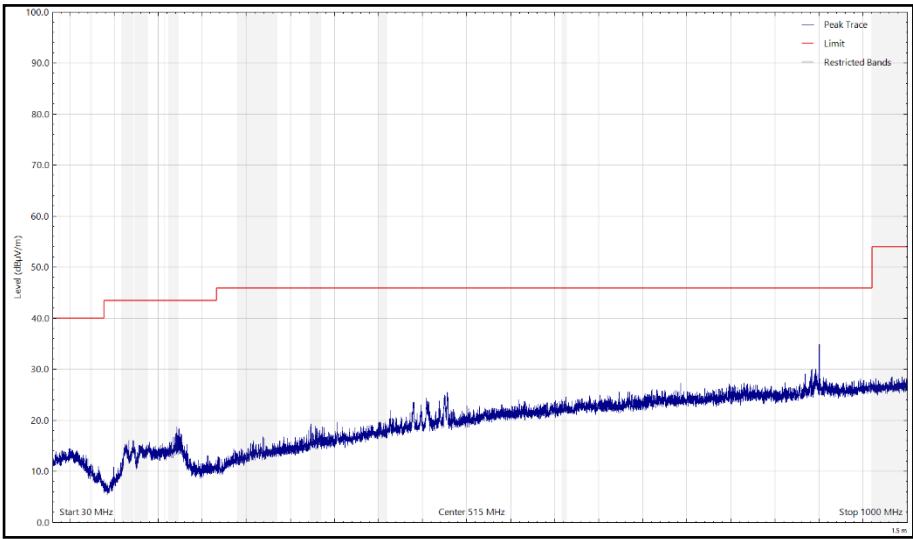


Figure 52 - CH100_802.11a_MIMO_6Mbps_X, 5500 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

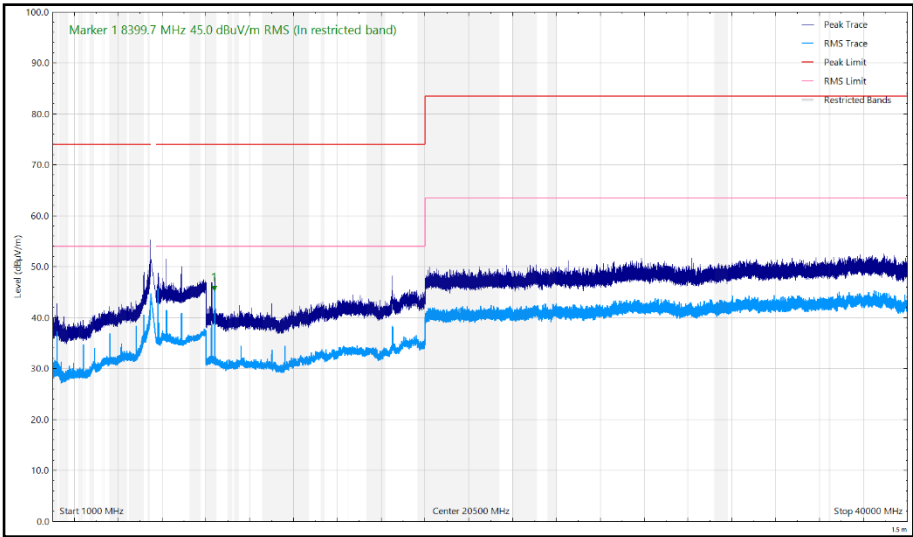


Figure 53 - CH100_802.11a_MIMO_6Mbps_X, 5500 MHz, 1 GHz to 40 GHz, Horizontal

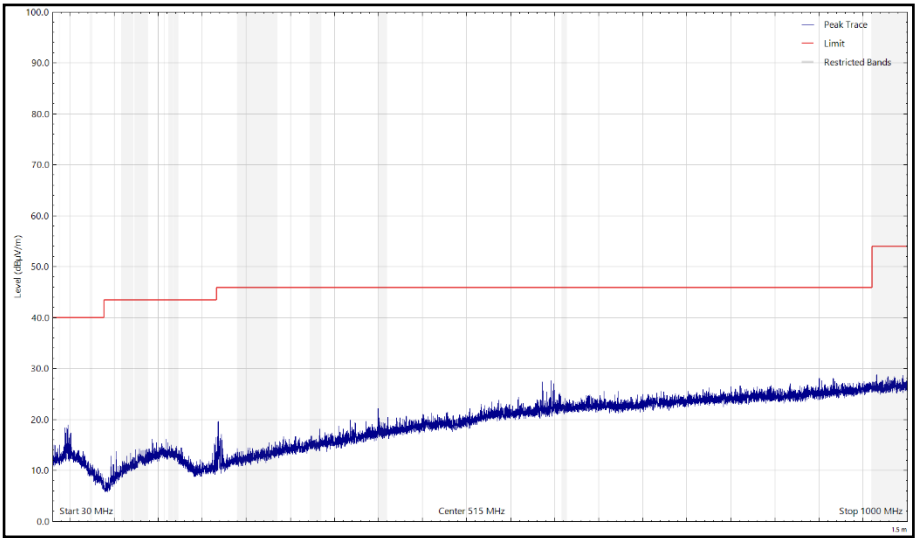


Figure 54 - CH100_802.11a_MIMO_6Mbps_X, 5500 MHz, 30 MHz to 1 GHz, Vertical (Peak)

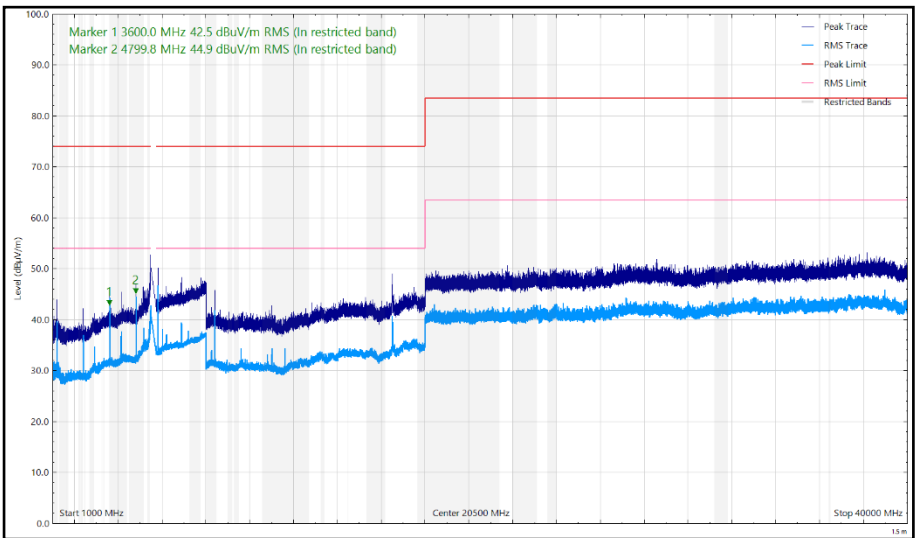


Figure 55 - CH100_802.11a_MIMO_6Mbps_X, 5500 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
8399.700	44.96	54.00	-9.04	RMS	dBuV/m	290	150	Horizontal

Table 73 - CH140_802.11a_MIMO_6Mbps_Z, 5700 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

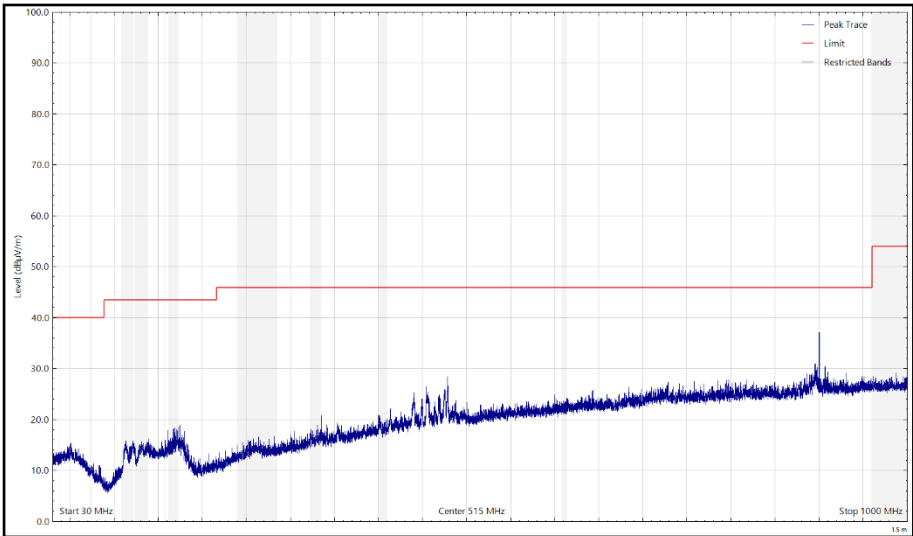


Figure 56 - CH140_802.11a_MIMO_6Mbps_Z, 5700 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

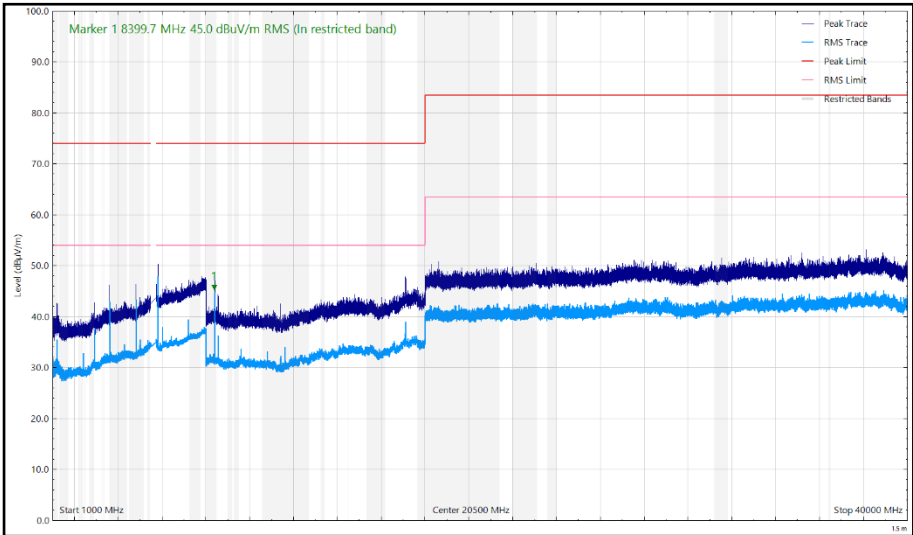


Figure 57 - CH140_802.11a_MIMO_6Mbps_Z, 5700 MHz, 1 GHz to 40 GHz, Horizontal

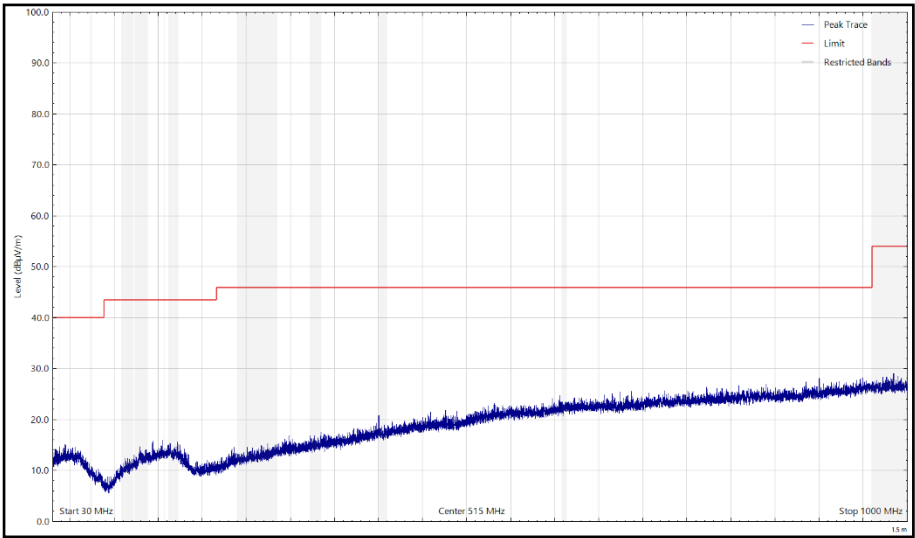


Figure 58 - CH140_802.11a_MIMO_6Mbps_Z, 5700 MHz, 30 MHz to 1 GHz, Vertical (Peak)

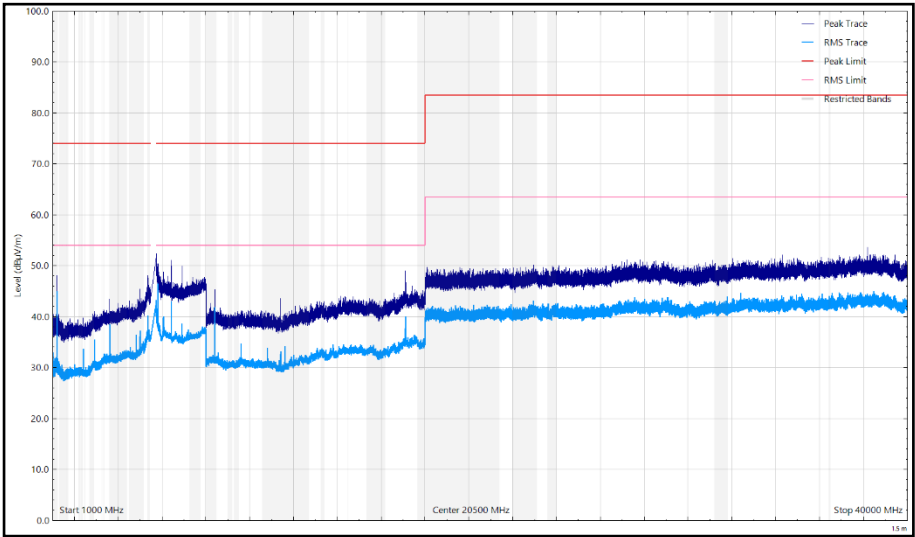


Figure 59 - CH140_802.11a_MIMO_6Mbps_Z, 5700 MHz, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
8399.700	45.06	54.00	-8.94	RMS	dBuV/m	290	152	Horizontal

Table 74 - CH140_802.11a_MIMO_6Mbps_Y, 5700 MHz, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

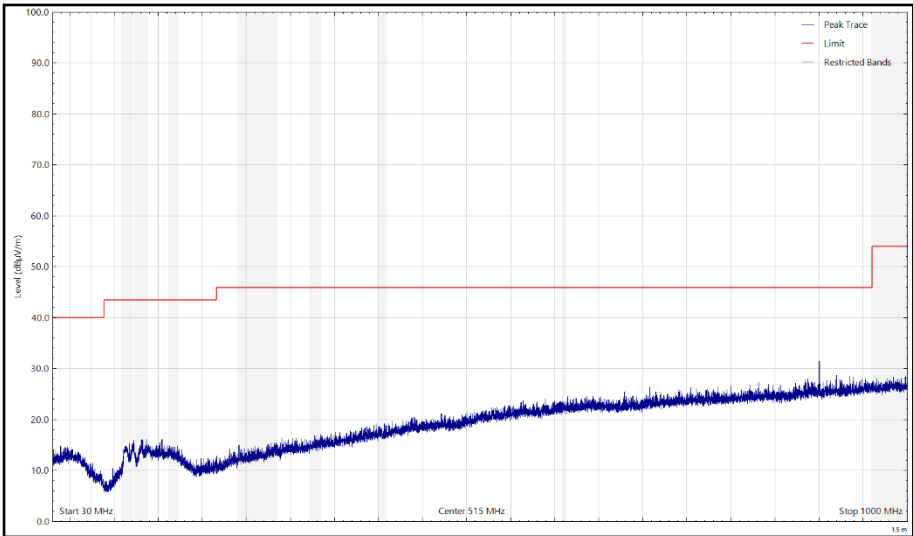


Figure 60 - CH140_802.11a_MIMO_6Mbps_Y, 5700 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

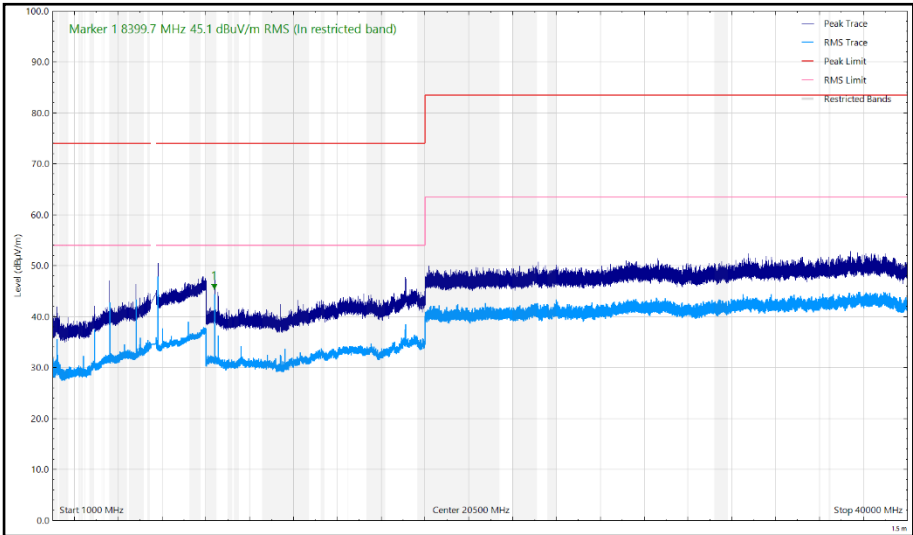


Figure 61 - CH140_802.11a_MIMO_6Mbps_Y, 5700 MHz, 1 GHz to 40 GHz, Horizontal