

FCC and ISED Test Report

Manufacturer: 3Shape TRIOS A/S

Model: L1P-2



In accordance with FCC 47 CFR Part 15C and
ISED RSS-247 and ISED RSS-GEN
(2.4 GHz Bluetooth & Bluetooth Low Energy)

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

FCC ID: 2A4DE-3S001

IC: 28188-3S001

COMMERCIAL-IN-CONFIDENCE

Document 75961963-06 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 15C 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

492497/UK2010 Octagon House, Fareham Test Laboratory

ISED Accreditation

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 15C 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 15C, 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)	Ahmad Javid and Thomas Biddlecombe
Related Document(s)	ANSI C63.10 (2020)



1.3 Brief Summary of Results

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

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15C	RSS-247	RSS-GEN			
Configuration and Mode: 2.4 GHz Bluetooth						
2.1	15.205	3.3	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020)
2.2	15.247 (b)	5.4	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020)
2.3	15.247 (d)	5.5	N/A	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.4	15.247 (d) & 15.209	3.3 & 5.5	6.13 & 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020)
Configuration and Mode: 2.4 GHz Bluetooth Low Energy						
2.1	15.205	3.3	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020)
2.2	15.247 (b)	5.4	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020)
2.3	15.247 (d)	5.5	N/A	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.4	15.247 (d) & 15.209	3.3 & 5.5	6.13 & 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020)

Table 2



1.4 Application Form

Equipment Description

Technical Description: (Please provide a brief description of the intended use of the equipment including the technologies the product supports)		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 <input type="checkbox"/>	Portable <input checked="" type="checkbox"/>	Fixed <input type="checkbox"/>
Equipment is fitted with an Audio Low Pass Filter		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

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	<input type="checkbox"/> 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	<input type="checkbox"/> 32.768 kHz (Oscillator mainboard)
Class A Digital Device (Use in commercial, industrial or business environment) <input type="checkbox"/>	
Class B Digital Device (Use in residential environment only) <input checked="" type="checkbox"/>	

AC Power Source

AC supply frequency:	-	Hz
Voltage	-	V
Max current:	-	A
Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/>		

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 <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input checked="" type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input type="checkbox"/> *(Vehicle regulated)		
Other <input type="checkbox"/>	Please detail:	

Charging

Can the EUT transmit whilst being charged	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Temperature

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



Cable Loss

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

Antenna Characteristics

Antenna connector <input type="checkbox"/>			State impedance		Ohm
Temporary antenna connector <input checked="" type="checkbox"/> SMA VIA IPEX MHF4L(HSC)			State impedance	50	Ohm
Integral antenna <input checked="" type="checkbox"/>	Type:	Flexible Monopole	Gain	Ant.2: -4.72	dBi
External antenna <input type="checkbox"/>	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:

Maximum Conducted Output Power
Restricted & Authorized Band Edge
Radiated Spurious Emissions

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: 1LD2428L01002X			
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: 2.4 GHz Bluetooth		
Restricted Band Edges	Ahmad Javid	UKAS
Maximum Conducted Output Power	Thomas Biddlecombe	UKAS
Authorised Band Edges	Ahmad Javid	UKAS
Spurious Radiated Emissions	Ahmad Javid	UKAS
Configuration and Mode: 2.4 GHz Bluetooth Low Energy		
Restricted Band Edges	Ahmad Javid	UKAS
Maximum Conducted Output Power	Thomas Biddlecombe	UKAS
Authorised 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 Restricted Band Edges

2.1.1 Specification Reference

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

2.1.2 Equipment Under Test and Modification State

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

2.1.3 Date of Test

07-February-2025 to 17-February-2025

2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.10.5 and 11.12.1.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

The following conversion can be applied to convert from dBμV/m to μV/m:
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$.

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

2.1.5 Environmental Conditions

Ambient Temperature	20.3 - 21.3 °C
Relative Humidity	39.6 - 43.2 %



2.1.6 Test Results

2.4 GHz Bluetooth

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
BT	DH5	2402	2390	48.86	36.66
BT	DH5	2480	2483.5	50.65	37.20

Table 5

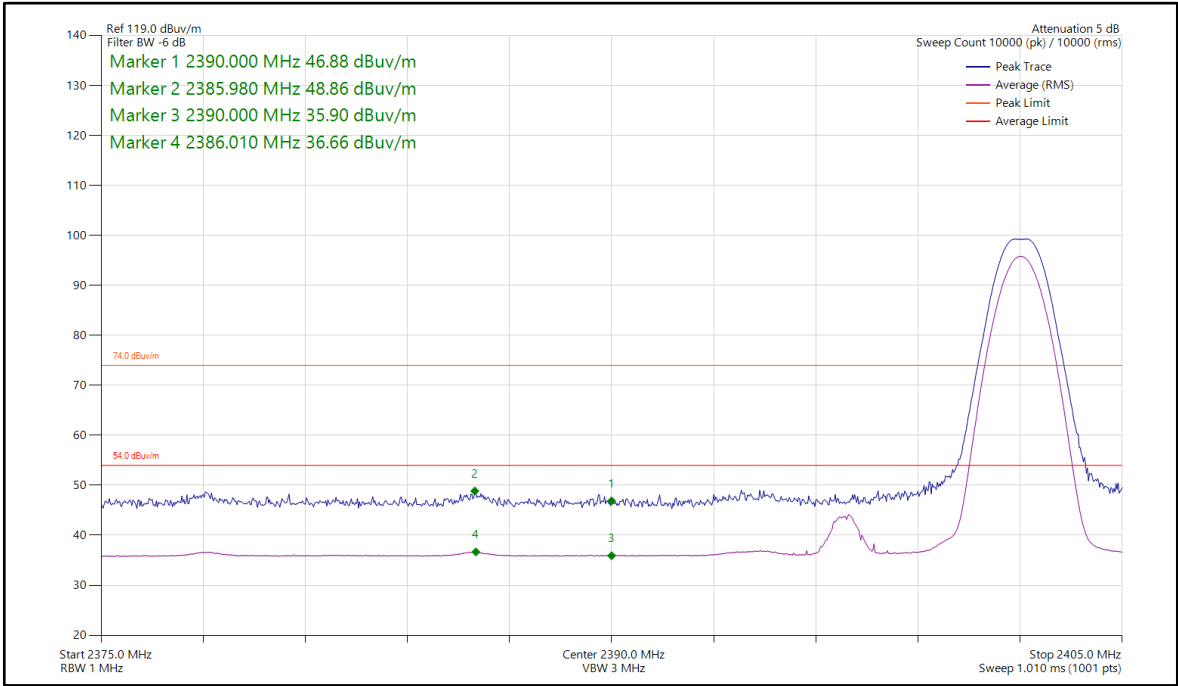


Figure 1 - CH0_DH5, 2402 MHz, Band Edge Frequency 2390 MHz

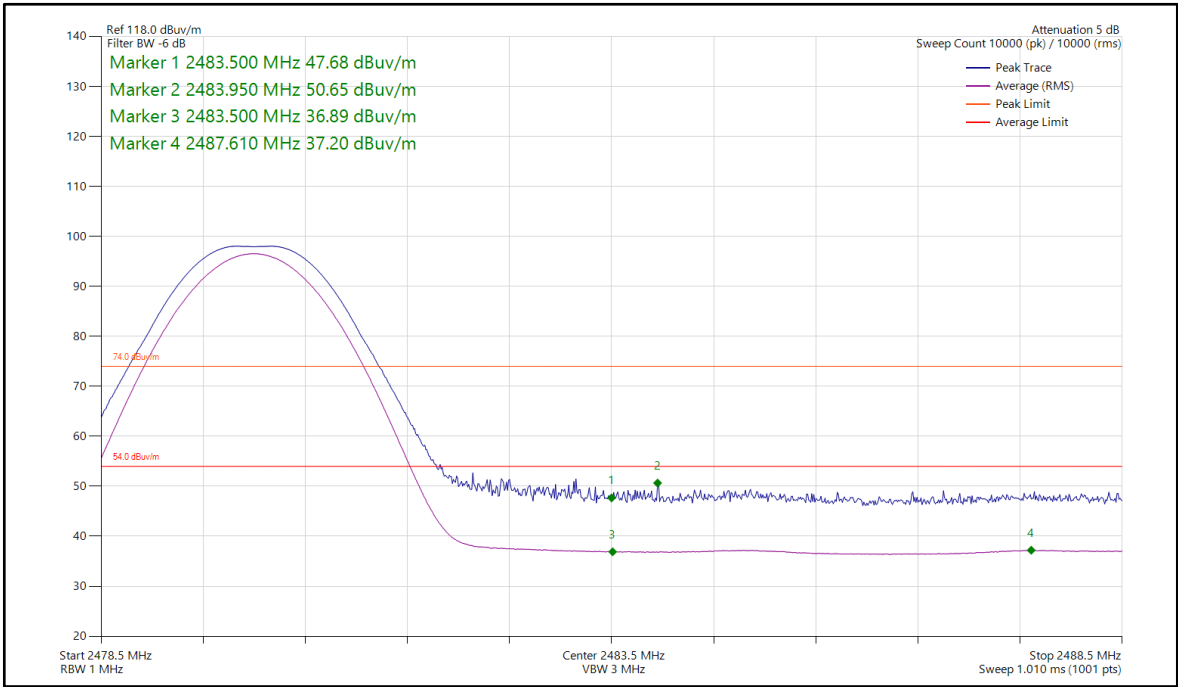


Figure 2 - CH78_DH5, 2480 MHz, Band Edge Frequency 2483.5 MHz



2.4 GHz Bluetooth Low Energy

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
BLE	1M	2402	2390	49.53	35.98
BLE	1M	2480	2483.5	50.30	37.16
BLE	2M	2402	2390	51.74	38.26
BLE	2M	2480	2483.5	48.71	36.89

Table 6

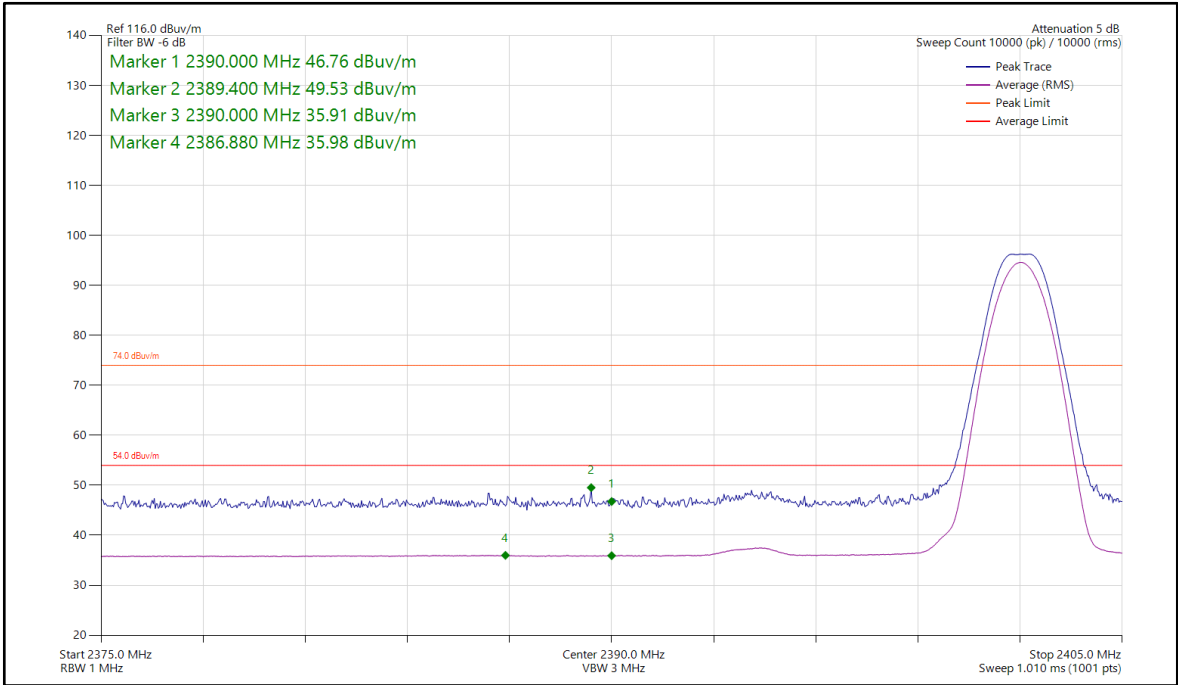


Figure 3 - CH37_LE1M, 2402 MHz, Band Edge Frequency 2390 MHz

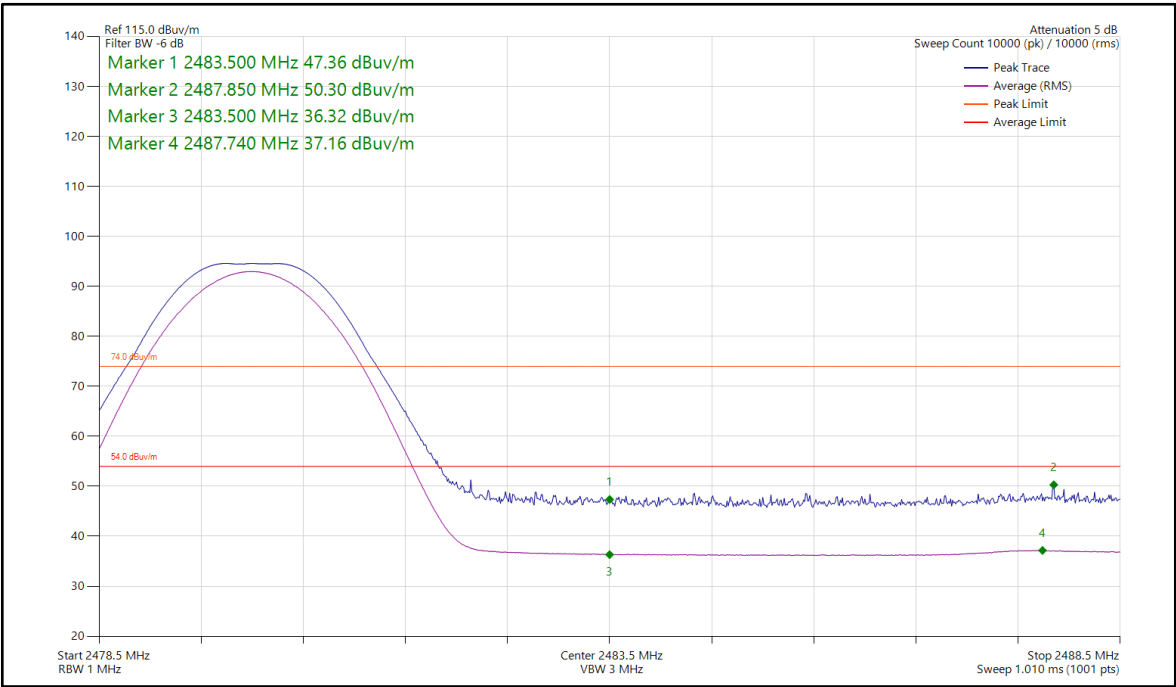


Figure 4 - CH39_LE1M, 2480 MHz, Band Edge Frequency 2483.5 MHz

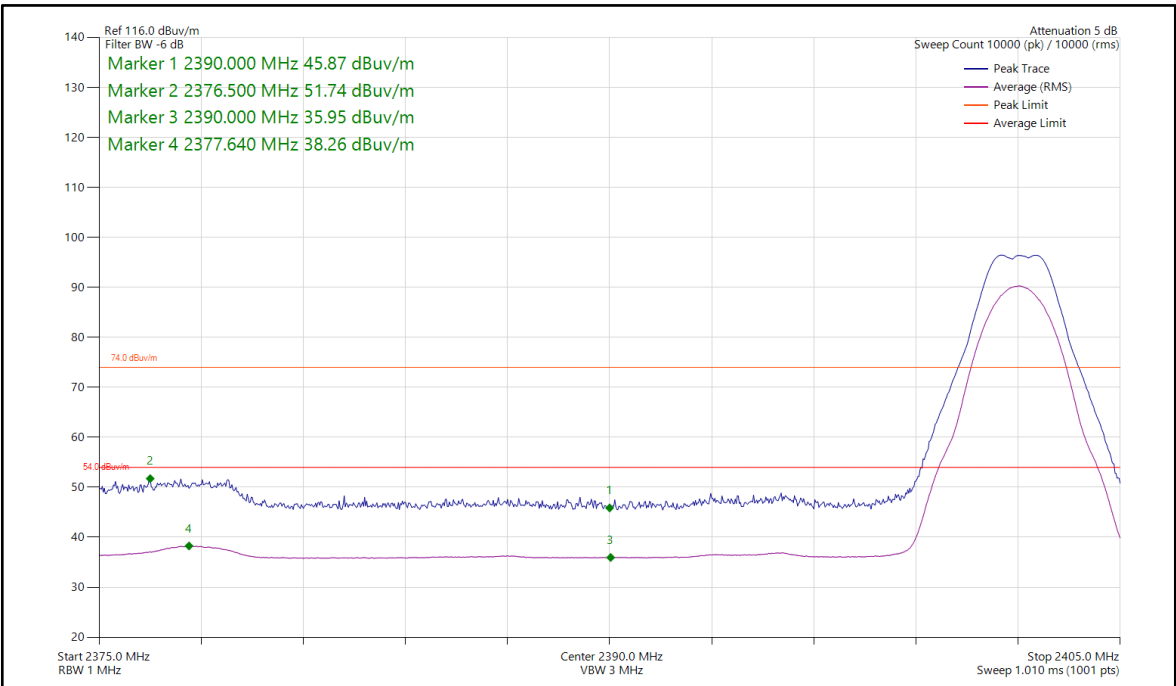


Figure 5 - CH37_LE2M, 2402 MHz, Band Edge Frequency 2390 MHz

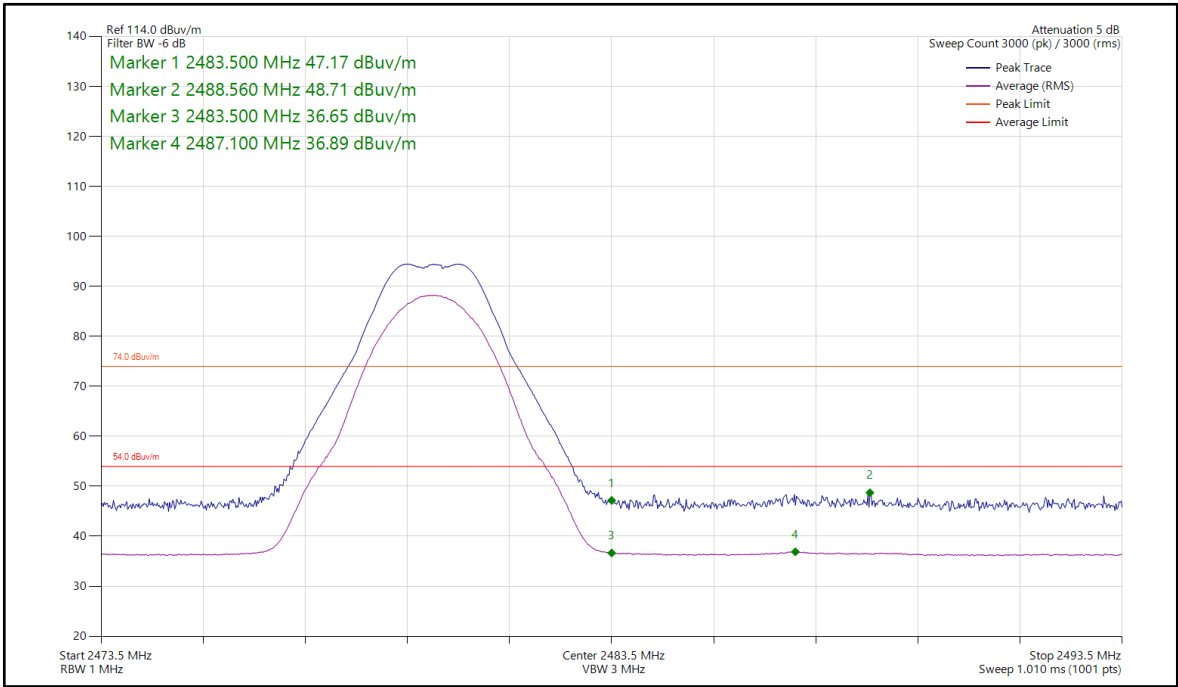


Figure 6 - CH39_LE2M, 2480 MHz, Band Edge Frequency 2483.5 MHz



FCC 47 CFR Part 15, Limit Clause 15.209

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 7

ISED RSS-GEN, Limit Clause 8.9

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960*	500

Table 8

*Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.



2.1.7 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
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 9

TU - Traceability Unscheduled



2.2 Maximum Conducted Output Power

2.2.1 Specification Reference

FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN, Clause 15.247 (b), 5.4 and 6.12

2.2.2 Equipment Under Test and Modification State

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

2.2.3 Date of Test

10-January-2025

2.2.4 Test Method

2.4 GHz Bluetooth

The test was performed in accordance with ANSI C63.10 clause 7.8.5 using a Power Meter.

2.4 GHz Bluetooth Low Energy

The test was performed in accordance with ANSI C63.10 clause 11.9.1.2 Method PKPM1.

2.2.5 Environmental Conditions

Ambient Temperature	20.2 °C
Relative Humidity	25.5 %



2.2.6 Test Results

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	-		

DUT Configuration			
Mode:	BT GFSK (DH5)	Duty Cycle (%):	72.5
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Aux)	Peak Antenna Gain (dBi):	-4.72

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	11.74	-	-	-	30.00	-18.26
2441	-	11.78	-	-	-	30.00	-18.22
2480	-	11.69	-	-	-	30.00	-18.31

Table 10 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	11.74	-	-	-	30.00	-18.26	7.02	36.00	-28.98
2441	-	11.78	-	-	-	30.00	-18.22	7.06	36.00	-28.94
2480	-	11.69	-	-	-	30.00	-18.31	6.97	36.00	-29.03

Table 11 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	-		

DUT Configuration			
Mode:	BT $\pi/4$ DQPSK (2-DH5)	Duty Cycle (%):	73.1
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Aux)	Peak Antenna Gain (dBi):	-4.72

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	10.88	-	-	-	30.00	-19.12
2441	-	10.78	-	-	-	30.00	-19.22
2480	-	10.76	-	-	-	30.00	-19.24

Table 12 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	10.88	-	-	-	30.00	-19.12	6.16	36.00	-29.84
2441	-	10.78	-	-	-	30.00	-19.22	6.06	36.00	-29.94
2480	-	10.76	-	-	-	30.00	-19.24	6.04	36.00	-29.96

Table 13 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	-		

DUT Configuration			
Mode:	BT 8-DPSK (3-DH5)	Duty Cycle (%):	73.8
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Aux)	Peak Antenna Gain (dBi):	-4.72

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	11.11	-	-	-	30.00	-18.89
2441	-	11.07	-	-	-	30.00	-18.93
2480	-	11.03	-	-	-	30.00	-18.97

Table 14 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	11.11	-	-	-	30.00	-18.89	6.39	36.00	-29.61
2441	-	11.07	-	-	-	30.00	-18.93	6.35	36.00	-29.65
2480	-	11.03	-	-	-	30.00	-18.97	6.31	36.00	-29.69

Table 15 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	BT GFSK (LE 1M)	Duty Cycle (%):	85.1
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Aux)	Peak Antenna Gain (dBi):	-4.72

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	8.31	-	-	-	30.00	-21.69
2440	-	8.21	-	-	-	30.00	-21.79
2480	-	8.22	-	-	-	30.00	-21.78

Table 16 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	8.31	-	-	-	30.00	-21.69	3.59	36.00	-32.41
2440	-	8.21	-	-	-	30.00	-21.79	3.49	36.00	-32.51
2480	-	8.22	-	-	-	30.00	-21.78	3.50	36.00	-32.50

Table 17 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	BT GFSK (LE 2M)	Duty Cycle (%):	43.2
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Aux)	Peak Antenna Gain (dBi):	-4.72

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	8.25	-	-	-	30.00	-21.75
2440	-	8.19	-	-	-	30.00	-21.81
2480	-	8.22	-	-	-	30.00	-21.78

Table 18 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	8.25	-	-	-	30.00	-21.75	3.53	36.00	-32.47
2440	-	8.19	-	-	-	30.00	-21.81	3.47	36.00	-32.53
2480	-	8.22	-	-	-	30.00	-21.78	3.50	36.00	-32.50

Table 19 - ISSED Maximum Conducted (peak) Output Power Results



FCC 47 CFR Part 15, Limit Clause 15.247 (b)(1)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

ISED RSS-247, Limit Clause 5.4 (b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channel; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channel. The e.i.r.p. shall not exceed 4 W except as provided in section 5.4(e) of the specification.

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

ISED RSS-247, Limit Clause 5.4 (d)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of the specification.

2.2.7 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
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	6639	12	02-Aug-2025

Table 20



2.3 Authorised Band Edges

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d),
ISED RSS-247 Clause 5.5,
ISED RSS-GEN, Clause N/A

2.3.2 Equipment Under Test and Modification State

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

2.3.3 Date of Test

07-February-2025 to 17-February-2025

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.4.
The DUT was battery powered with the batteries fully charged prior to testing.

2.3.5 Environmental Conditions

Ambient Temperature	20.3 - 21.3 °C
Relative Humidity	39.6 - 43.2 %



2.3.6 Test Results

2.4 GHz Bluetooth

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
BT	DH5	2402	2400	-56.89
BT	DH5	2480	2483.5	-56.76

Table 21

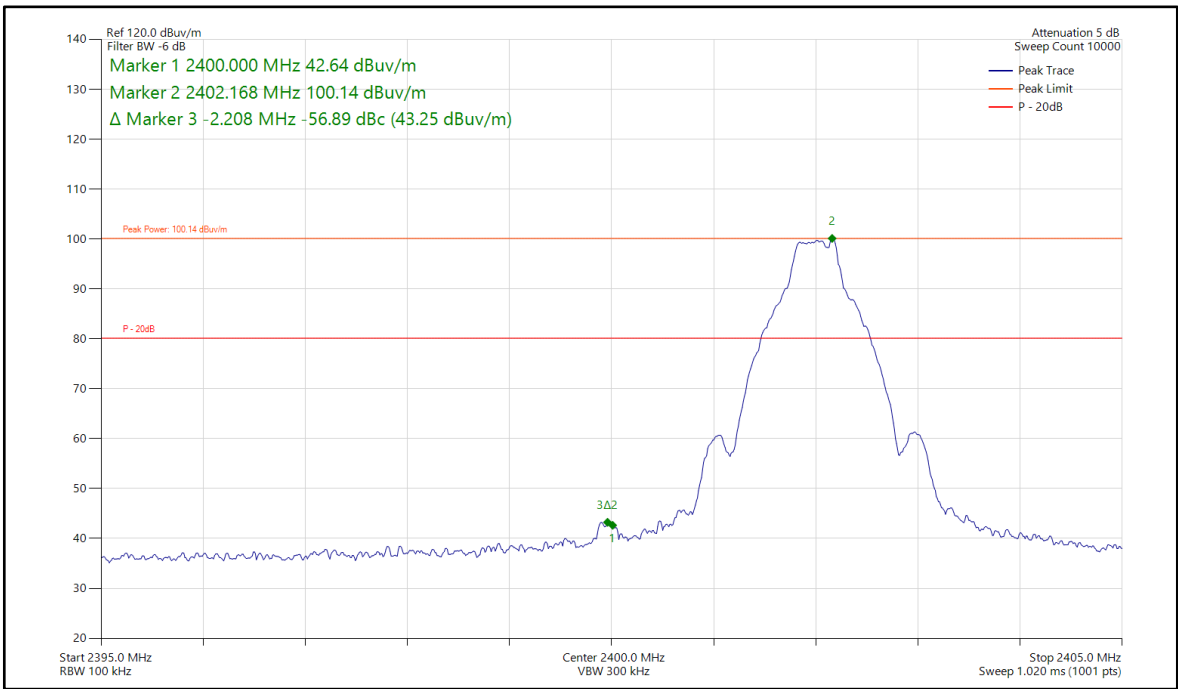


Figure 7 - CH0_DH5, 2402 MHz, Band Edge Frequency 2400 MHz

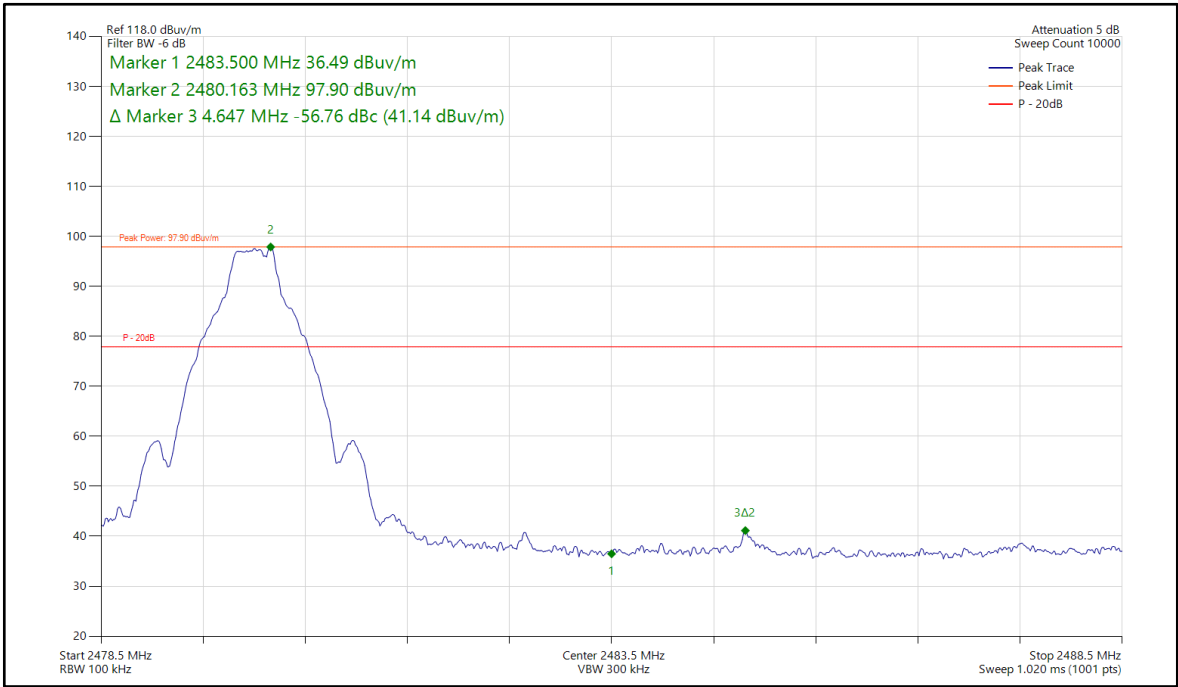


Figure 8 - CH78_DH5, 2480 MHz, Band Edge Frequency 2483.5 MHz



2.4 GHz Bluetooth Low Energy

Mode	Data Rate/MCS	Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
BLE	1M	2402	2400	-53.42
BLE	1M	2480	2483.5	-55.71
BLE	2M	2402	2400	-32.43
BLE	2M	2480	2483.5	-54.34

Table 22

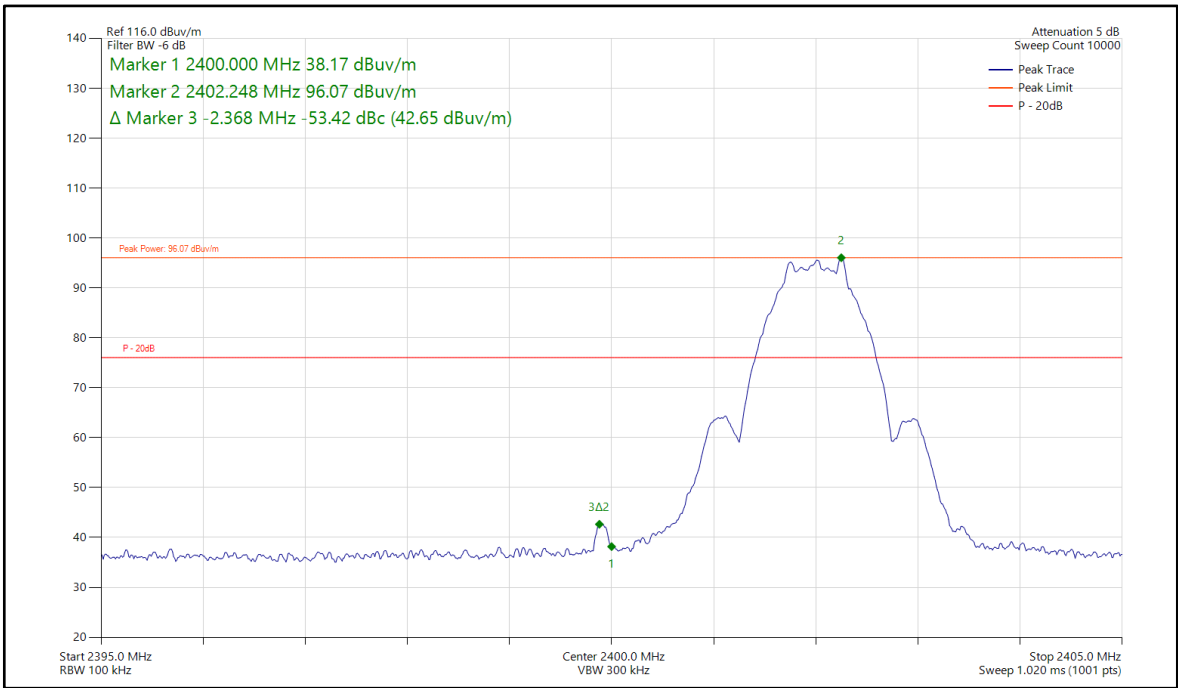


Figure 9 - CH37_LE1M, 2402 MHz, Band Edge Frequency 2400 MHz

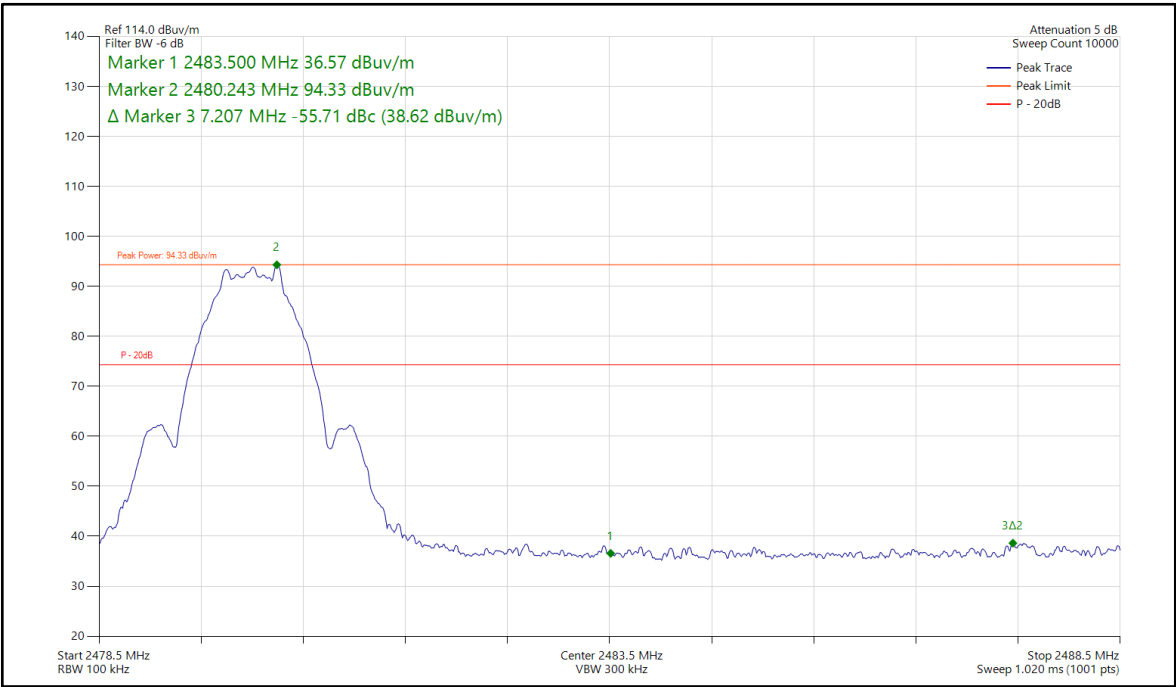


Figure 10 - CH39_LE1M, 2480 MHz, Band Edge Frequency 2483.5 MHz

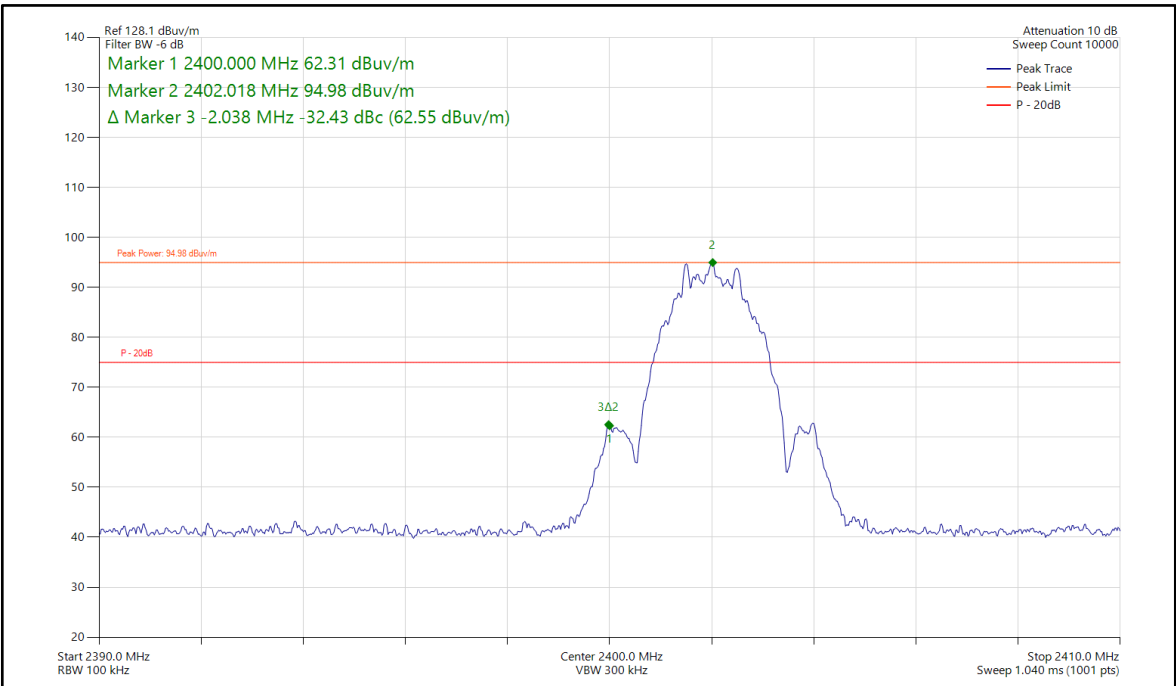


Figure 11 - CH37_LE2M, 2402 MHz, Band Edge Frequency 2400 MHz

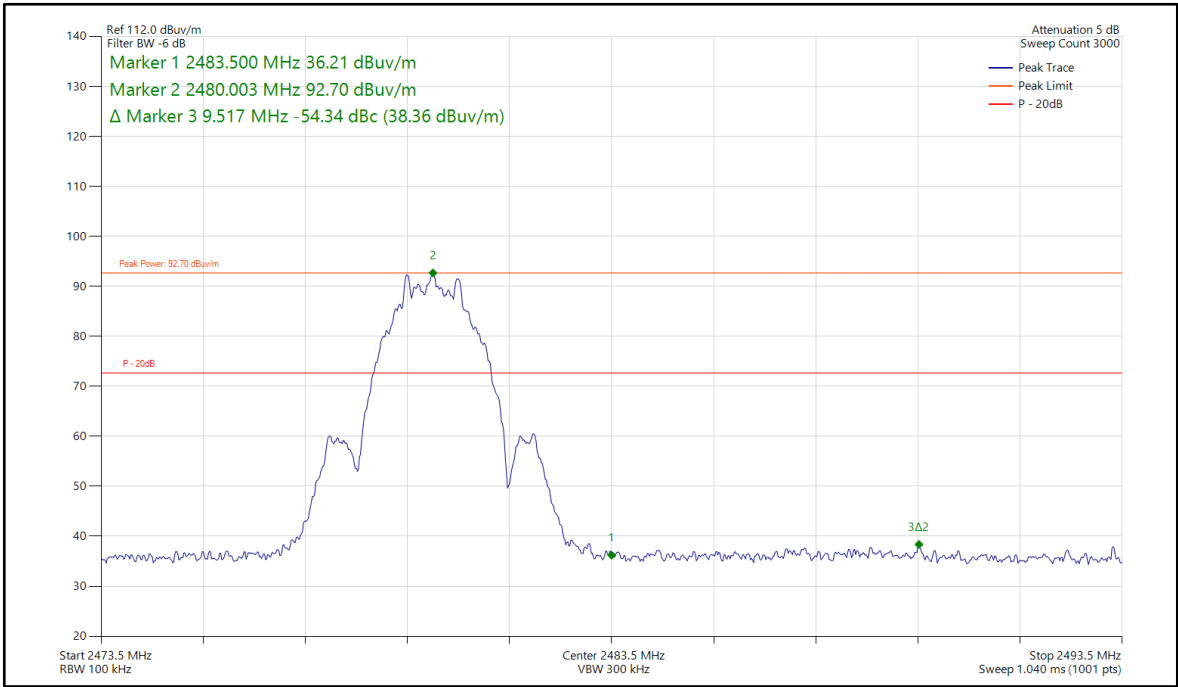


Figure 12 - CH39_LE2M, 2480 MHz, Band Edge Frequency 2483.5 MHz



FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

ISED RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



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
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 23

TU - Traceability Unscheduled



2.4 Spurious Radiated Emissions

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d) and 15.209,
ISED RSS-247 Clause 3.3 and 5.5,
ISED RSS-GEN, Clause 6.13 and 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

07-February-2025 to 12-February-2025

2.4.4 Test Method

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

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10 clause 4.1.5.2.6 to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10 clause 4.1.5.2.1.

The EUT was placed on the non-conducting platform in a manner typical of a normal installation. As the EUT was considered mobile/portable and therefore reasonable to be used in multiple planes, pre-scans were performed with the EUT orientated in X, Y and Z planes with reference to the ground plane.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB 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:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

To determine the emission characteristic of the EUT above 18 GHz, the test antenna was swept over all faces of the EUT whilst observing a spectral display. The frequency of any emissions of interest was noted for formal measurement at the correct measurement distance of 1m. This procedure was repeated for all relevant transmit operating channel

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.

At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

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

2.4.5 Example Test Setup Diagram

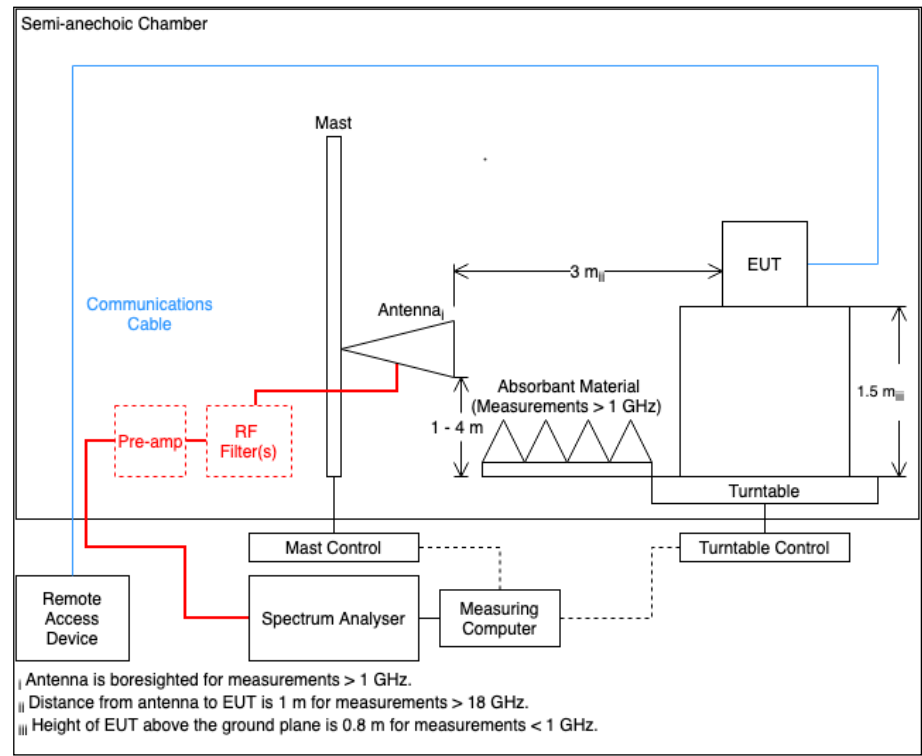


Figure 13

2.4.6 Environmental Conditions

Ambient Temperature	19.9 - 22.0 °C
Relative Humidity	39.6 - 48.3 %



2.4.7 Test Results

2.4 GHz Bluetooth

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
*								

Table 24 - CH0_DH5_X, 2402 MHz, 30 MHz to 26 GHz

*No emissions found within 10 dB of the limit.

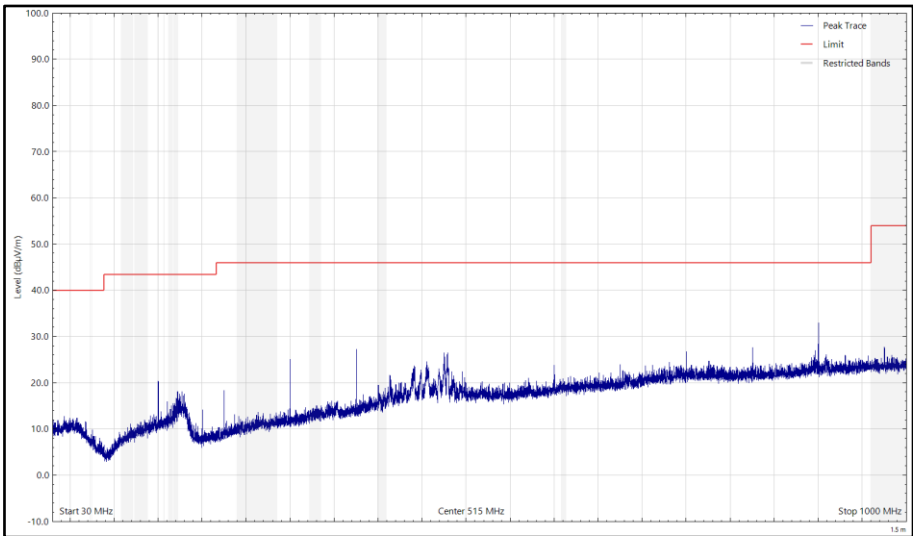


Figure 14 - CH0_DH5_X, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

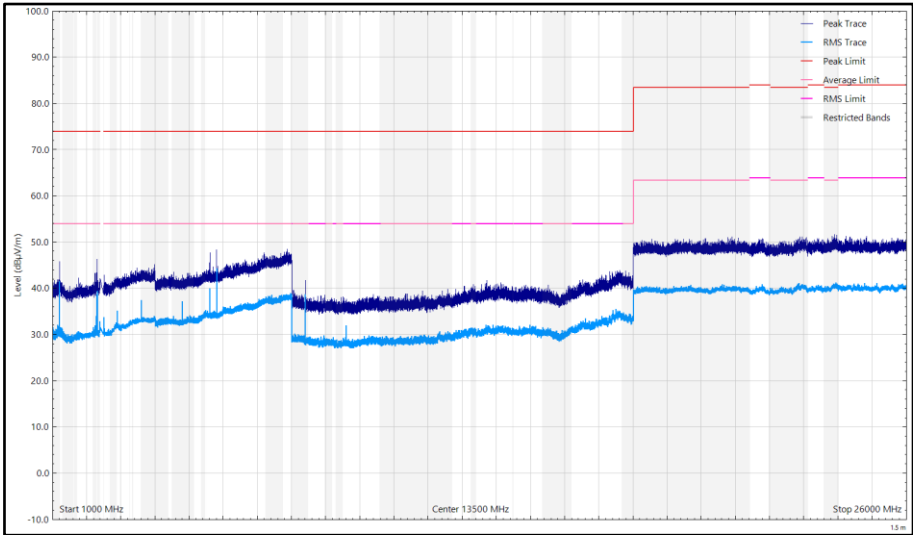


Figure 15 - CH0_DH5_X, 2402 MHz, 1 GHz to 26 GHz, Horizontal

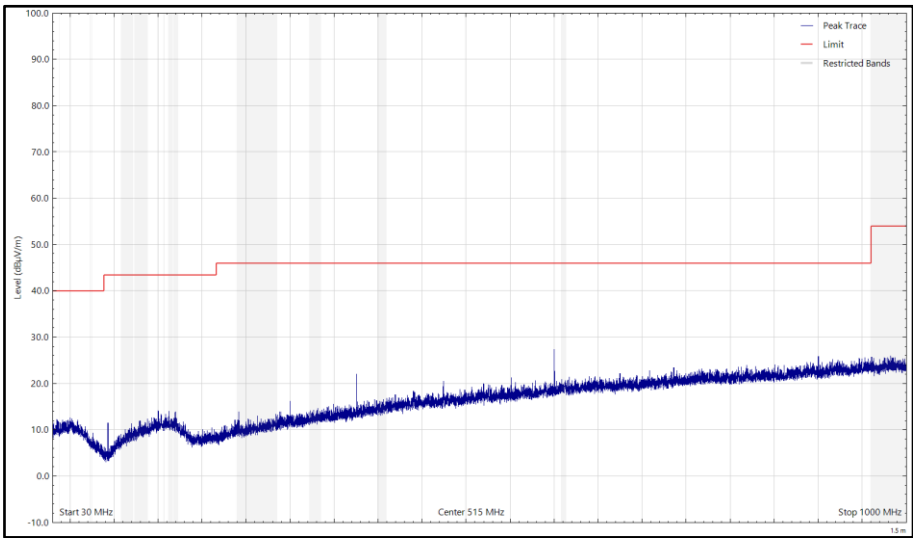


Figure 16 - CH0_DH5_X, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

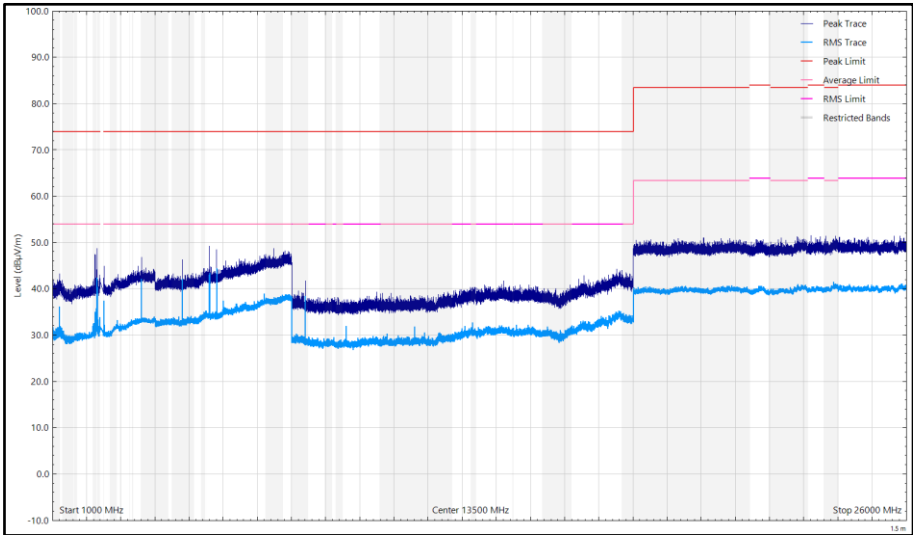


Figure 17 - CH0_DH5_X, 2402 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
*								

Table 25 - CH0_DH5_Y, 2402 MHz, 30 MHz to 26 GHz

*No emissions found within 10 dB of the limit.

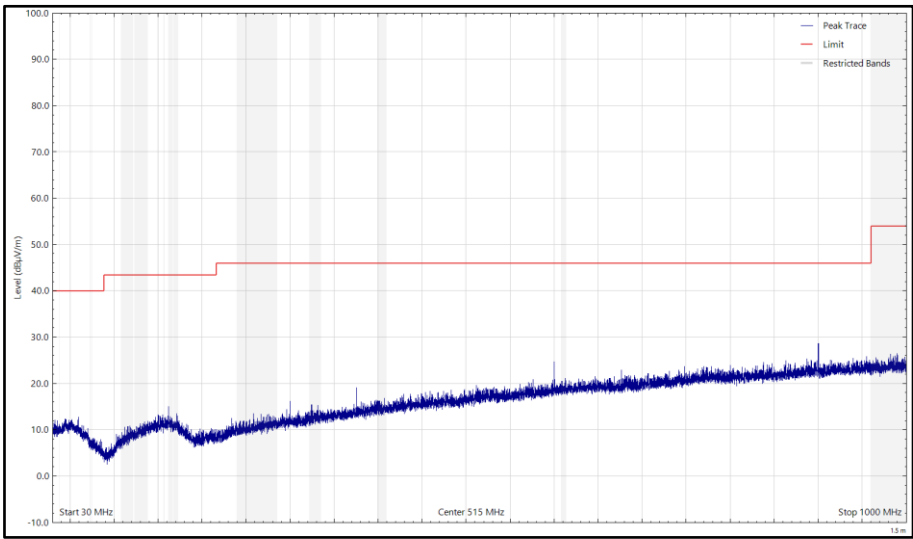


Figure 18 - CH0_DH5_Y, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

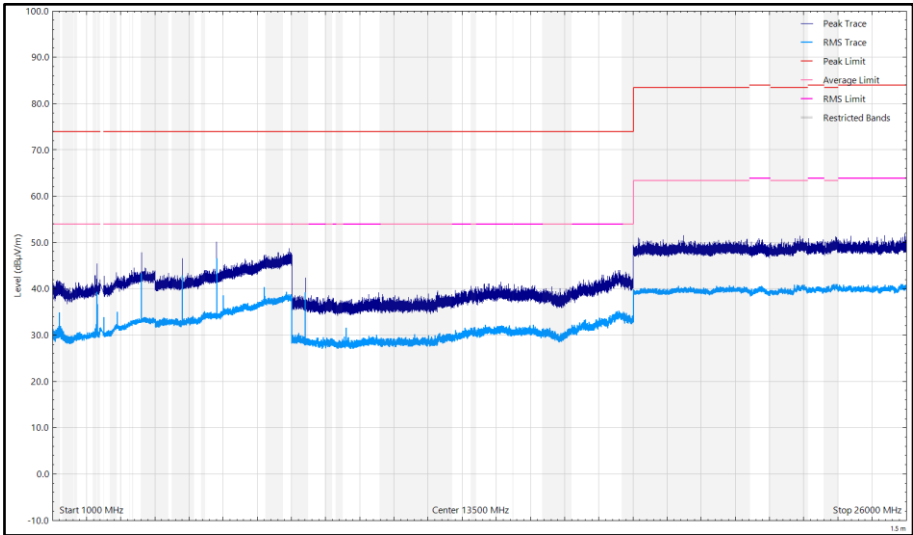


Figure 19 - CH0_DH5_Y, 2402 MHz, 1 GHz to 26 GHz, Horizontal

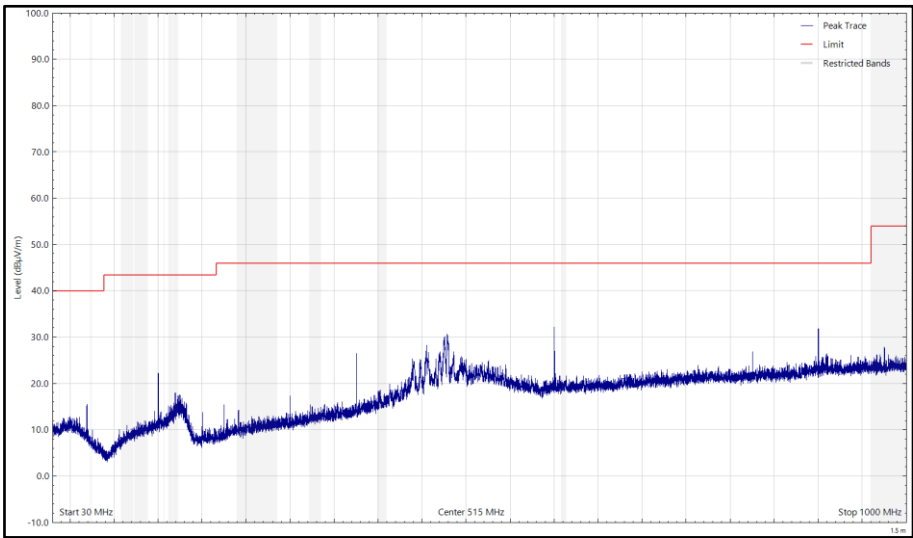


Figure 20 - CH0_DH5_Y, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

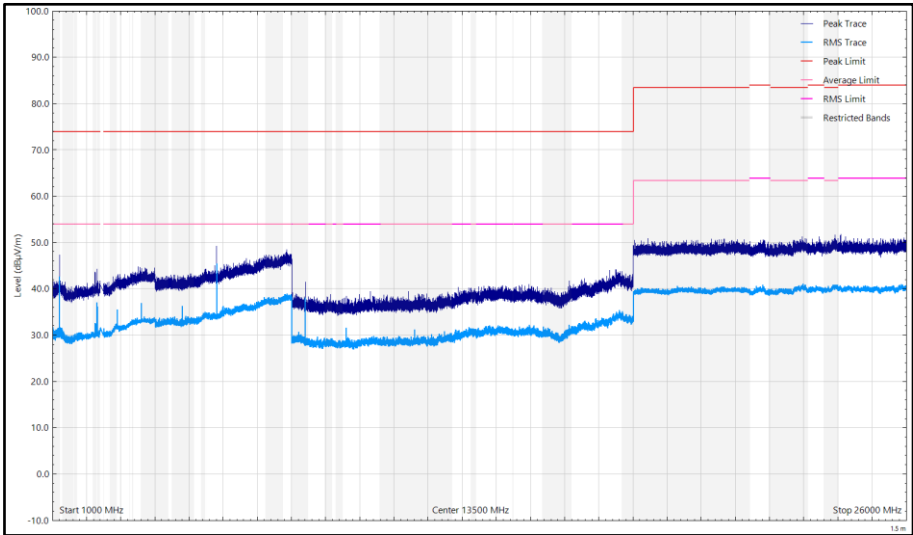


Figure 21 - CH0_DH5_Y, 2402 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
3600.004	43.30	54.00	-10.70	RMS	349	155	Vertical	Z

Table 26 - CH0_DH5_Z, 2402 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

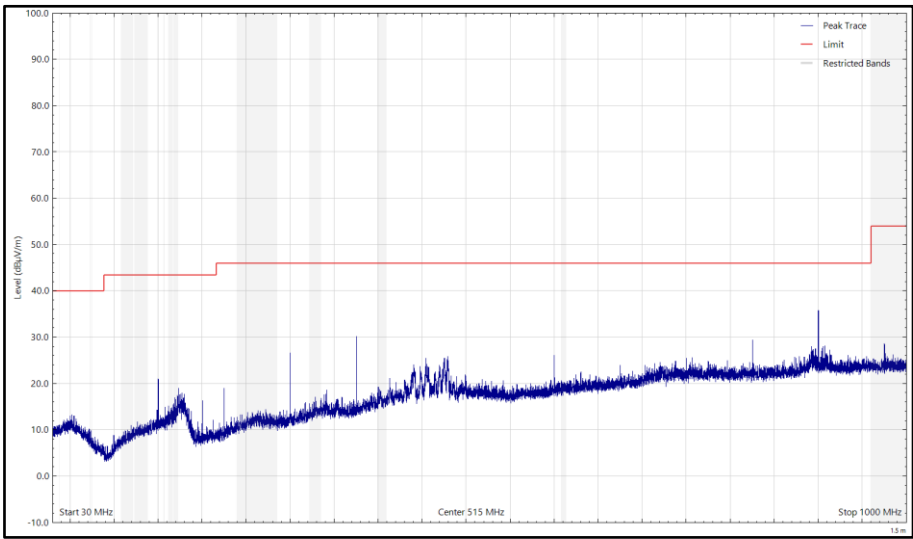


Figure 22 - CH0_DH5_Z, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

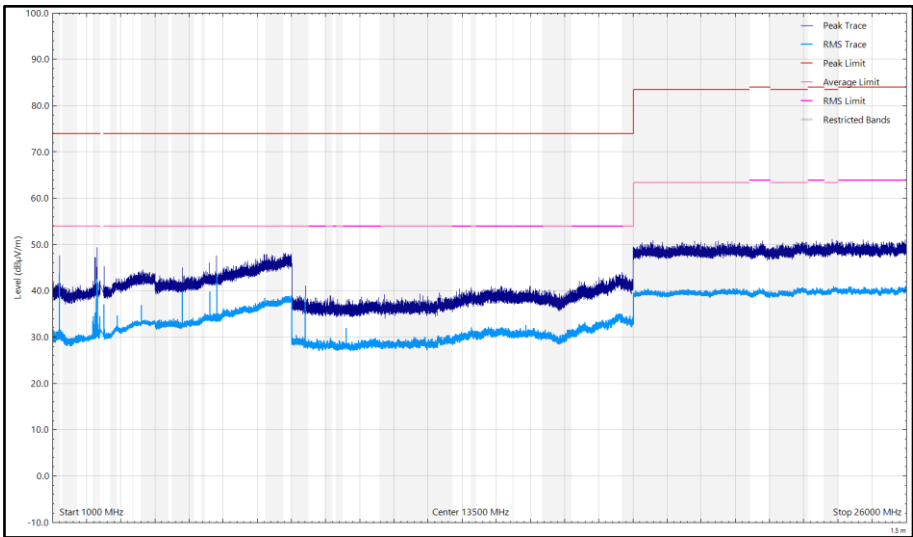


Figure 23 - CH0_DH5_Z, 2402 MHz, 1 GHz to 26 GHz, Horizontal

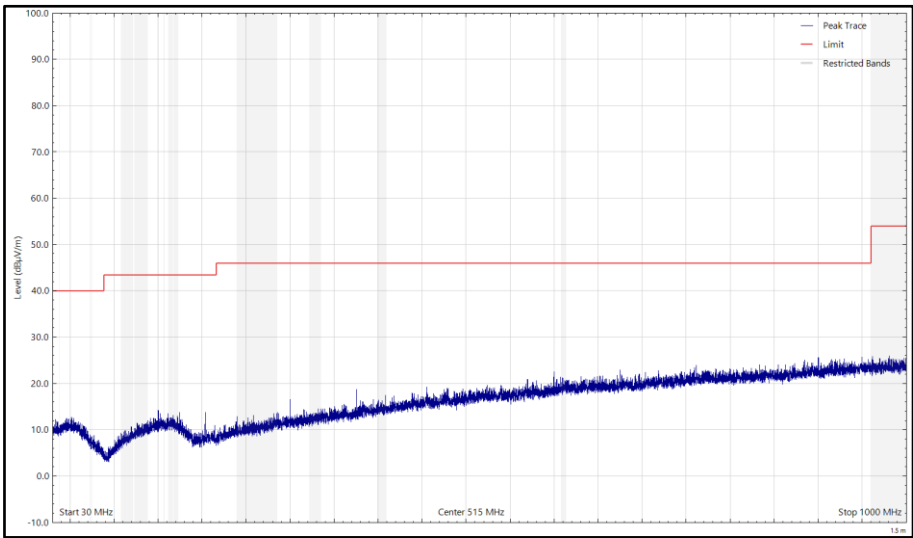


Figure 24 - CH0_DH5_Z, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

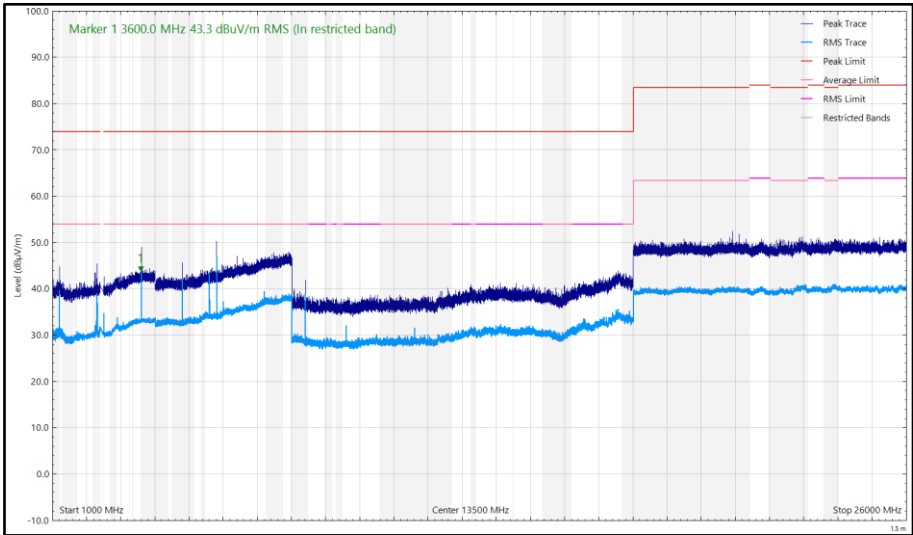


Figure 25 - CH0_DH5_Z, 2402 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.955	39.75	46.00	-6.25	Q-Peak	130	100	Horizontal	X

Table 27 - CH39_DH5_X, 2441 MHz, 1 to 26 GHz

No other emissions found within 10 dB of the limit.

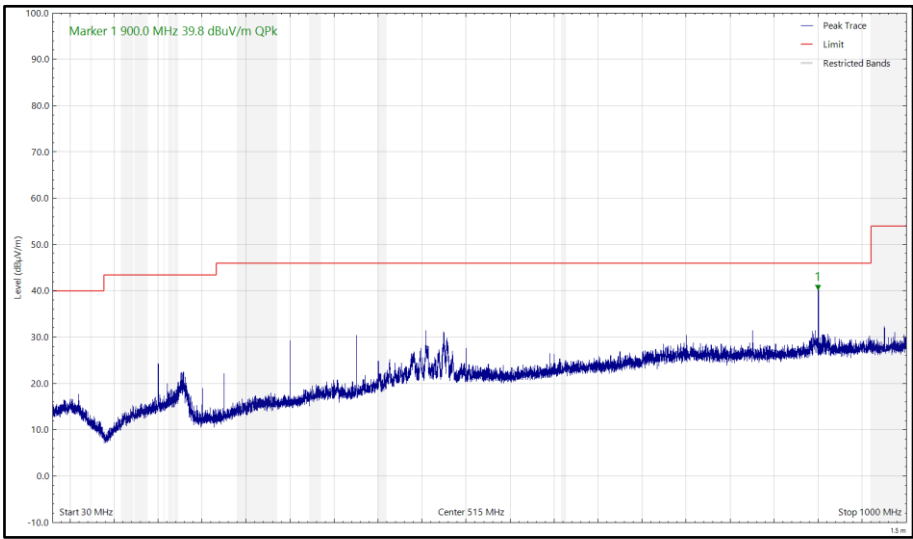


Figure 26 - CH39_DH5_X, 2441 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

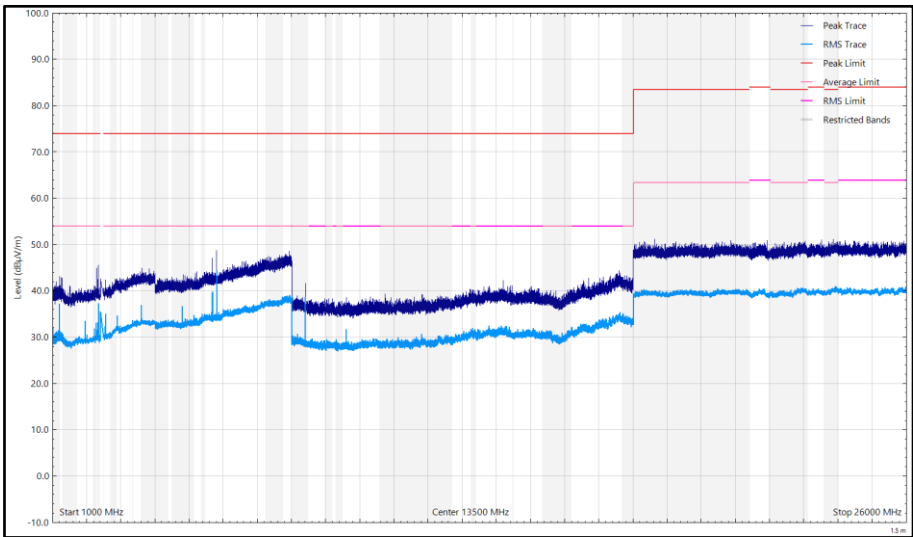


Figure 27 - CH39_DH5_X, 2441 MHz, 1 GHz to 26 GHz, Horizontal

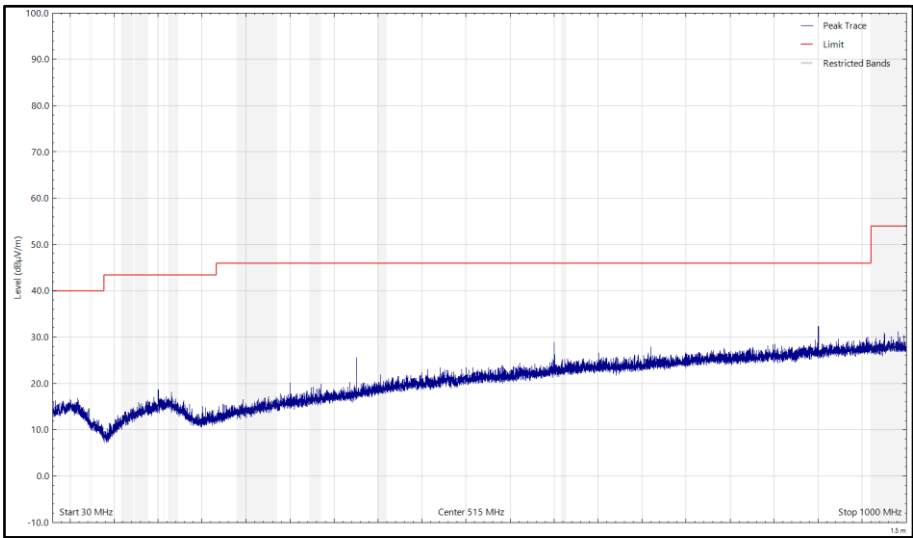


Figure 28 - CH39_DH5_X, 2441 MHz, 30 MHz to 1 GHz, Vertical (Peak)

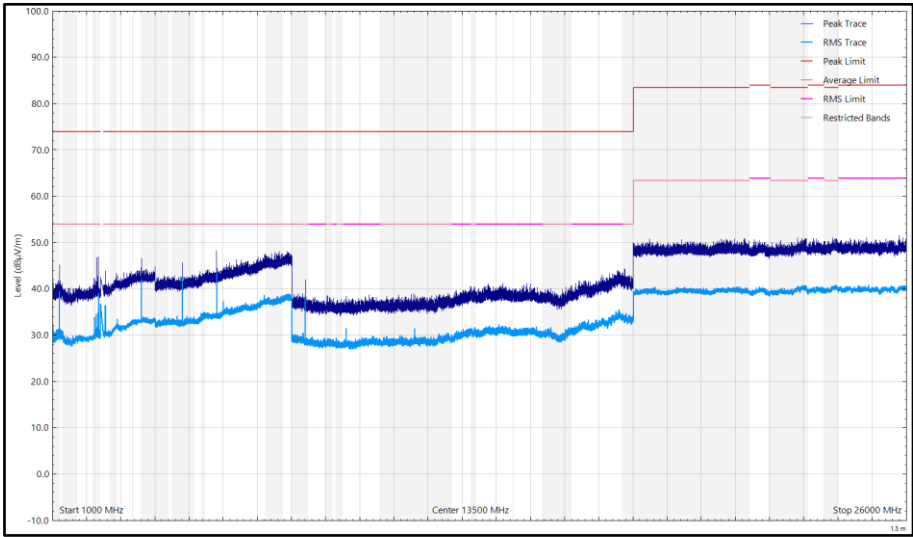


Figure 29 - CH39_DH5_X, 2441 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.962	39.16	46.00	-6.84	Q-Peak	124	106	Vertical	Y

Table 28 - CH39_DH5_Y, 2441 MHz, 1 to 26 GHz

No other emissions found within 10 dB of the limit.

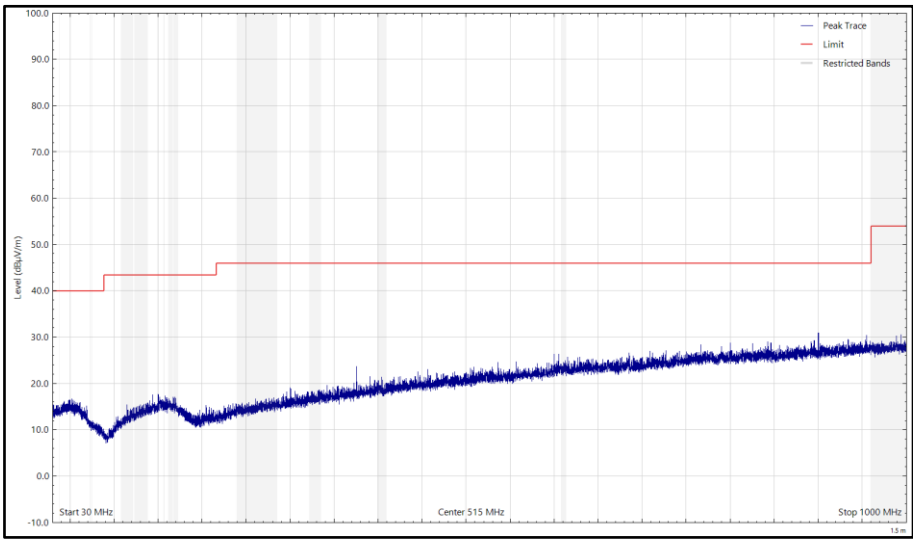


Figure 30 - CH39_DH5_Y, 2441 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

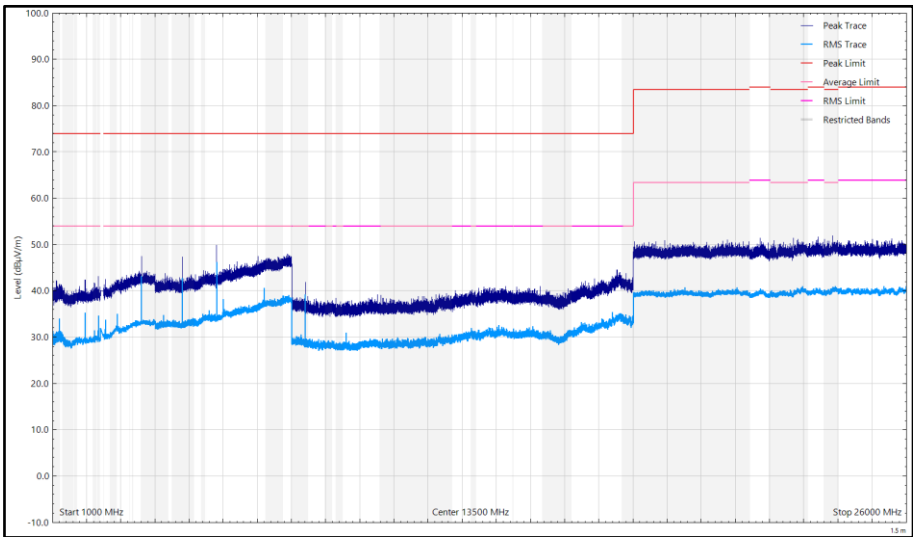


Figure 31 - CH39_DH5_Y, 2441 MHz, 1 GHz to 26 GHz, Horizontal

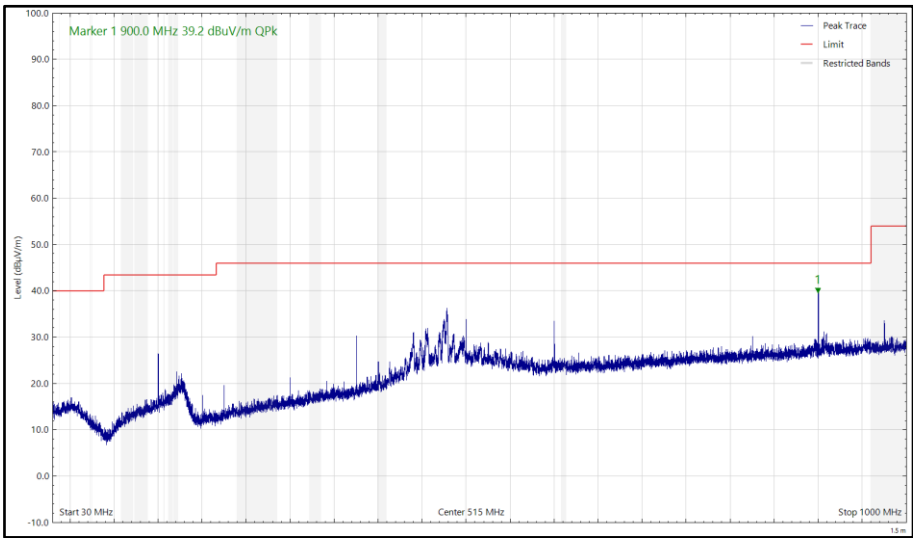


Figure 32 - CH39_DH5_Y, 2441 MHz, 30 MHz to 1 GHz, Vertical (Peak)

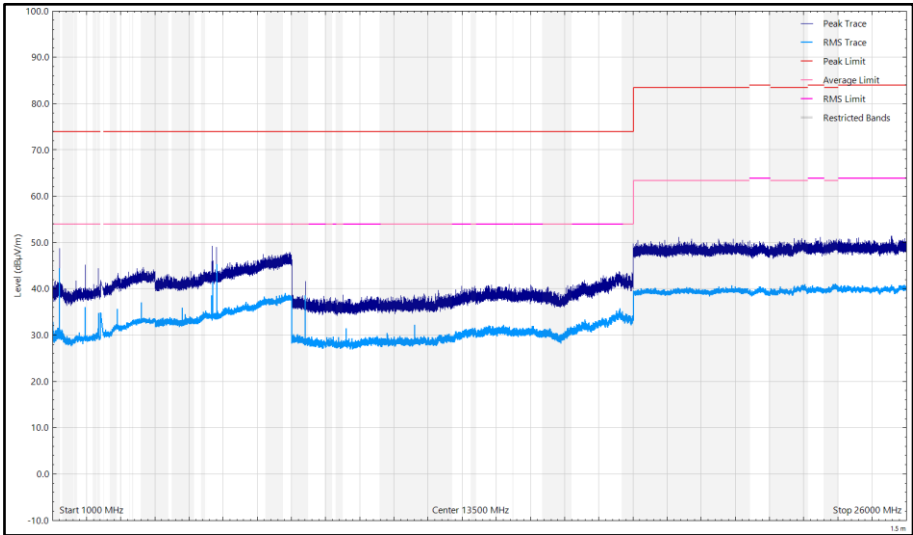


Figure 33 - CH39_DH5_Y, 2441 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.961	41.72	46.00	-4.28	Q-Peak	23	100	Horizontal	Z
1199.958	44.77	54.00	-9.23	RMS	17	227	Horizontal	Z

Table 29 - CH39_DH5_Z, 2441 MHz, 5 to 8 GHz

No other emissions found within 10 dB of the limit.

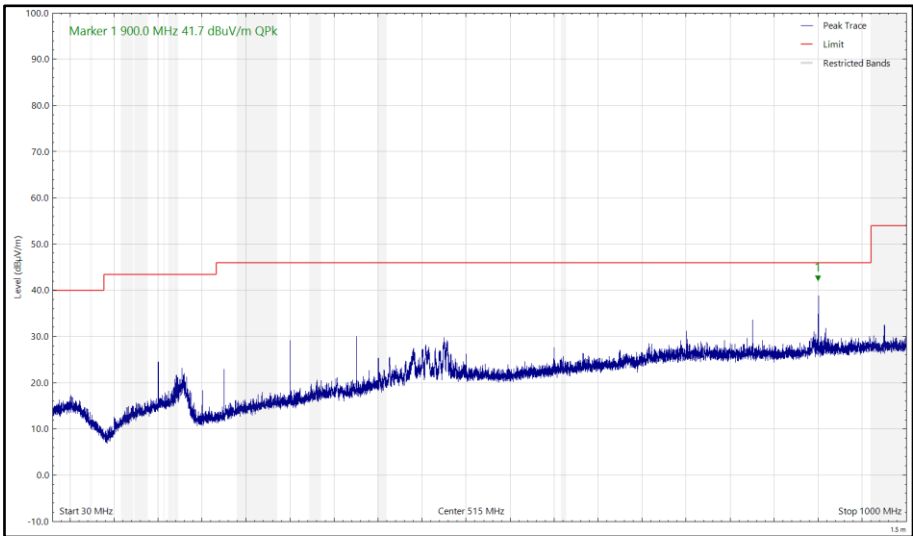


Figure 34 - CH39_DH5_Z, 2441 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

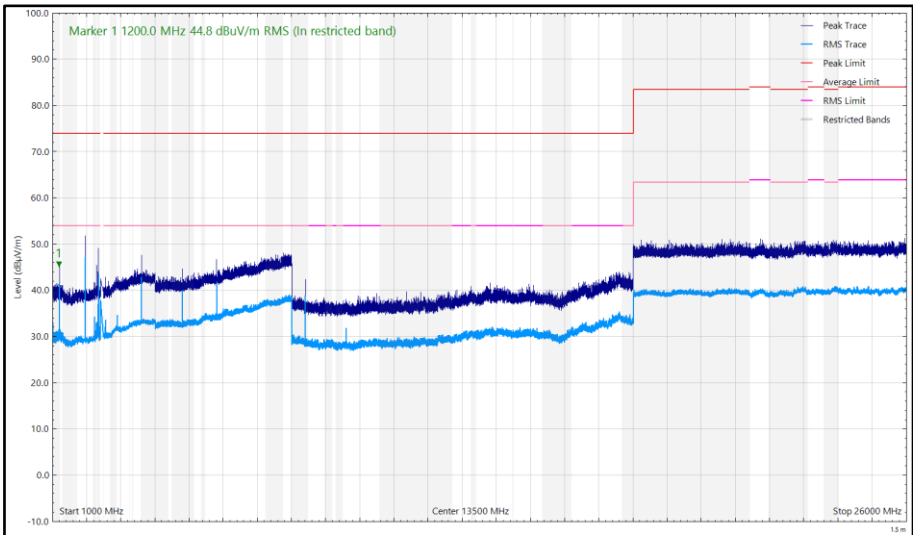


Figure 35 - CH39_DH5_Z, 2441 MHz, 1 GHz to 26 GHz, Horizontal

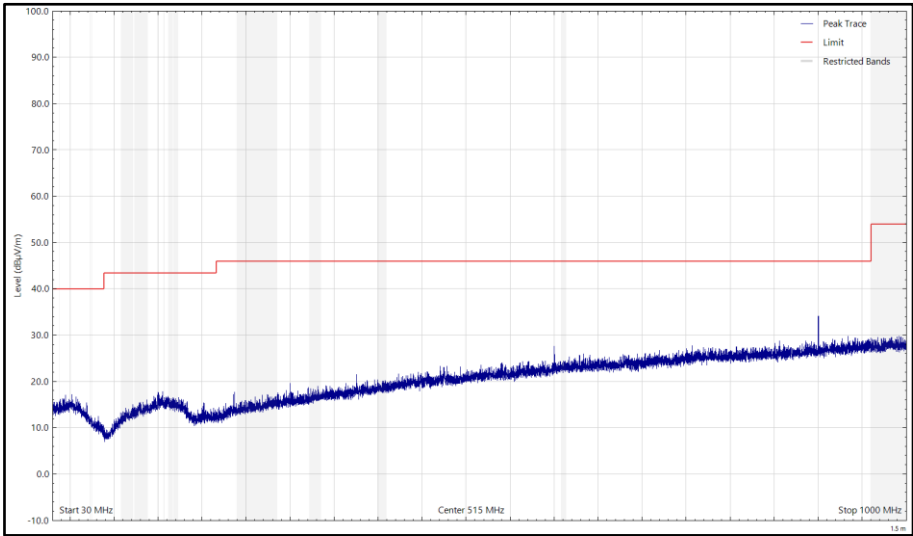


Figure 36 - CH39_DH5_Z, 2441 MHz, 30 MHz to 1 GHz, Vertical (Peak)

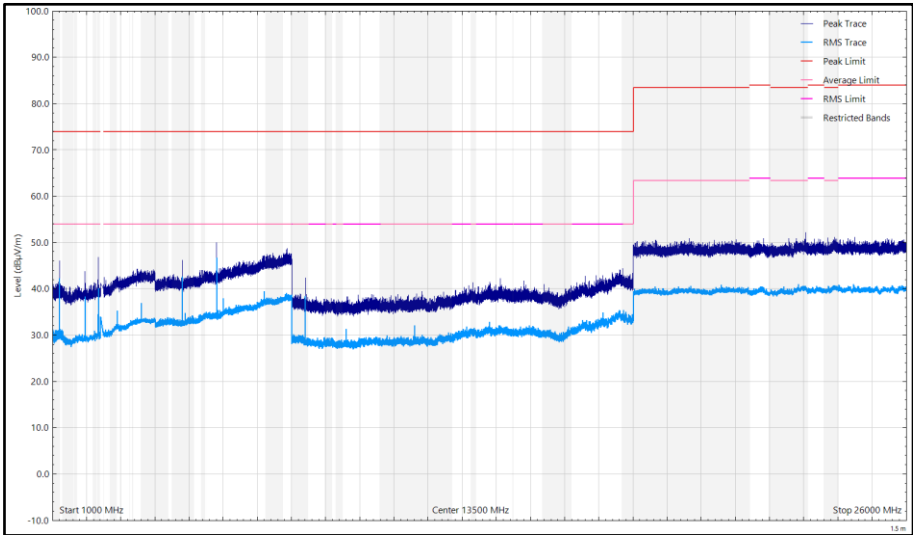


Figure 37 - CH39_DH5_Z, 2441 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.949	37.84	46.00	-8.16	Q-Peak	125	100	Horizontal	X
1199.962	43.98	54.00	-10.02	RMS	66	114	Horizontal	X
3600.004	42.26	54.00	-11.74	RMS	110	136	Vertical	X

Table 30 - CH78_DH5_X, 2480 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

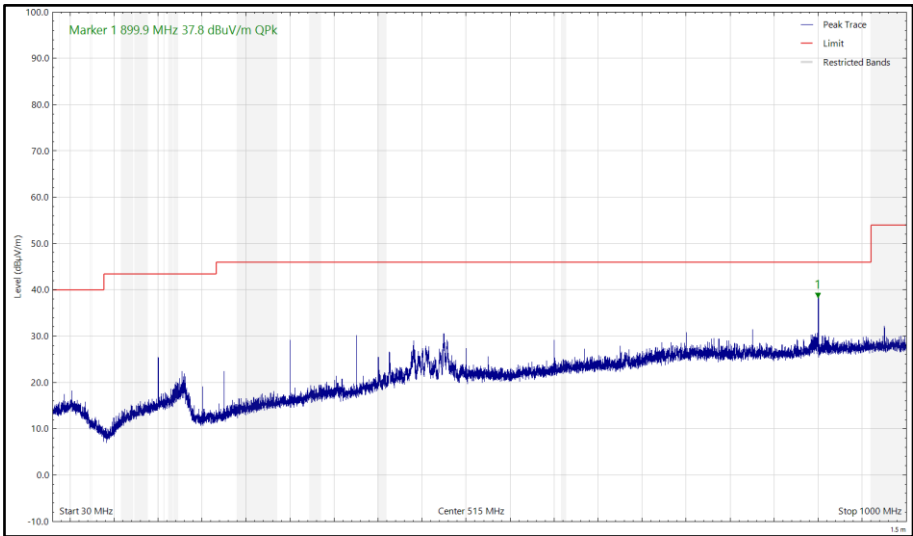


Figure 38 - CH78_DH5_X, 2480 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

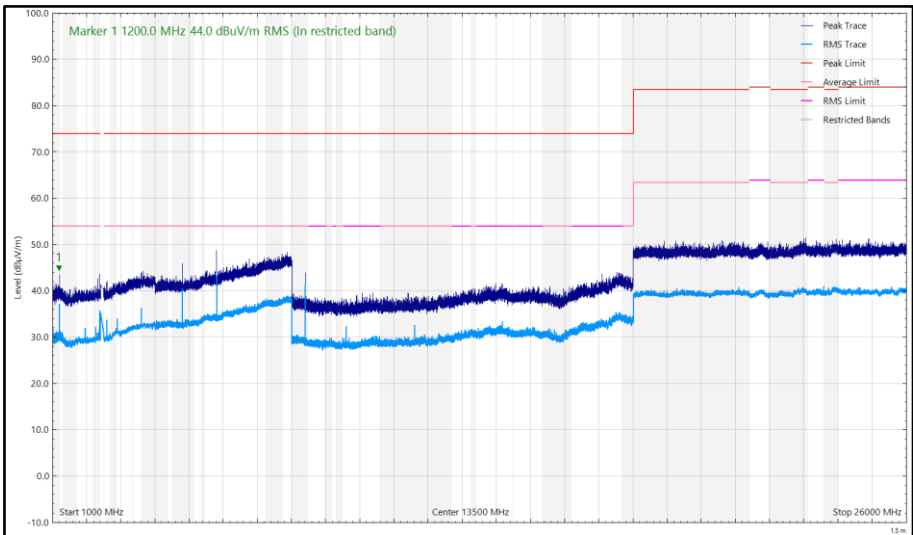


Figure 39 - CH78_DH5_X, 2480 MHz, 1 GHz to 26 GHz, Horizontal

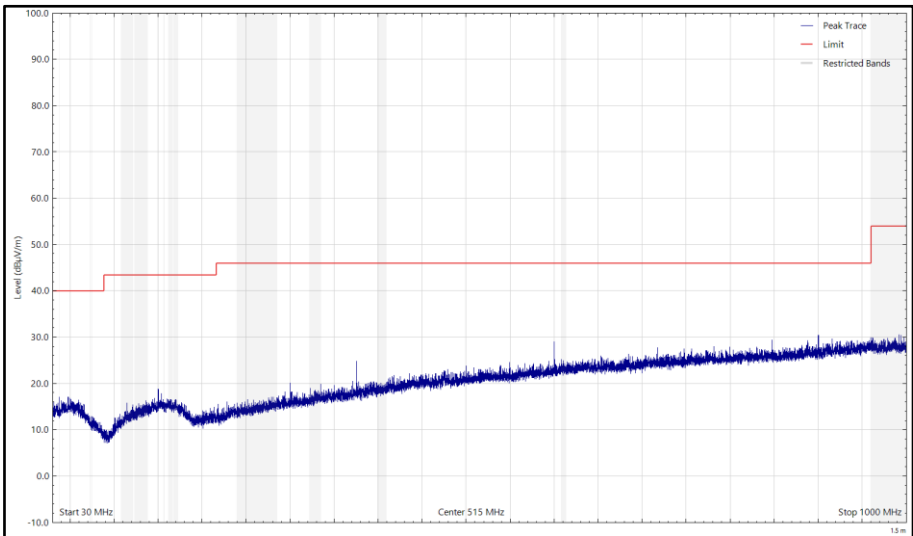


Figure 40 - CH78_DH5_X, 2480 MHz, 30 MHz to 1 GHz, Vertical (Peak)

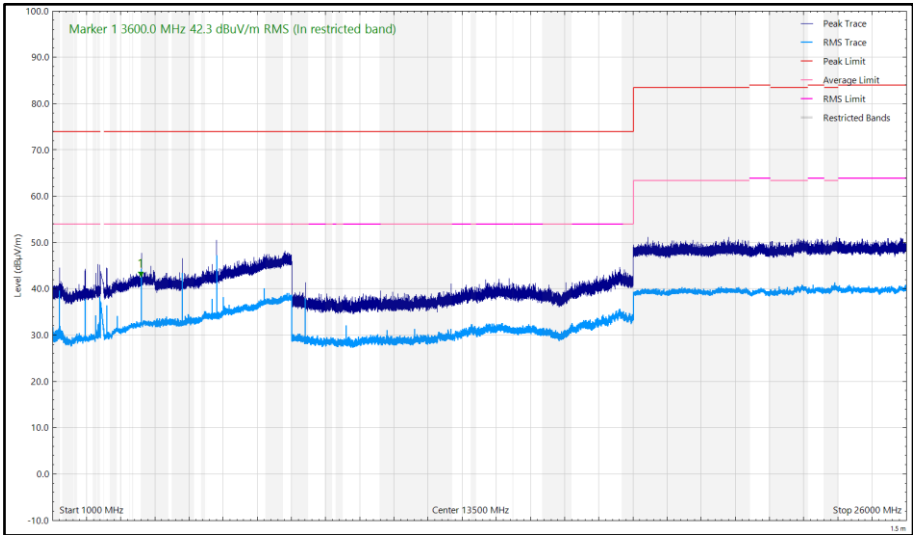


Figure 41 - CH78_DH5_X, 2480 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.957	39.55	46.00	-6.45	Q-Peak	143	109	Vertical	Y
1199.944	45.52	54.00	-8.48	RMS	2	260	Vertical	Y
3600.004	42.75	54.00	-11.25	RMS	331	240	Horizontal	Y

Table 31 - CH78_DH5_Y, 2480 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

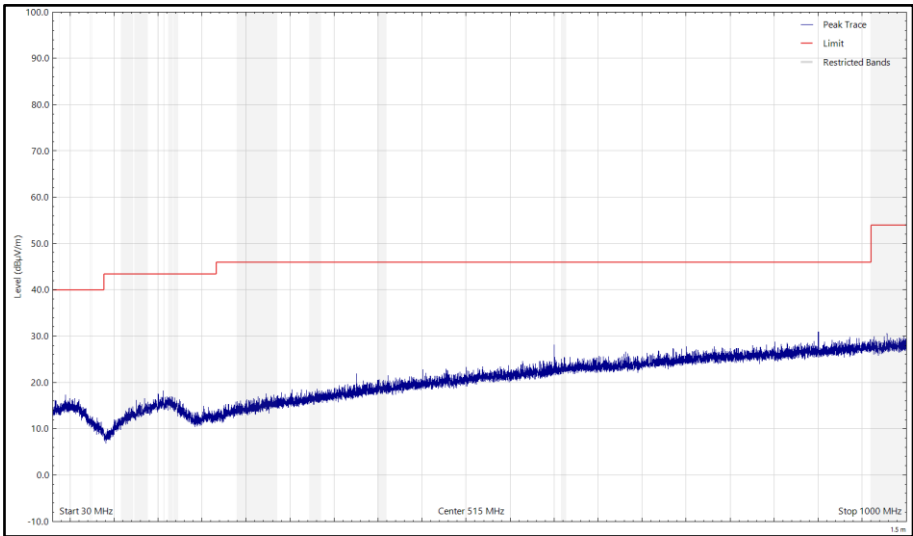


Figure 42 - CH78_DH5_Y, 2480 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

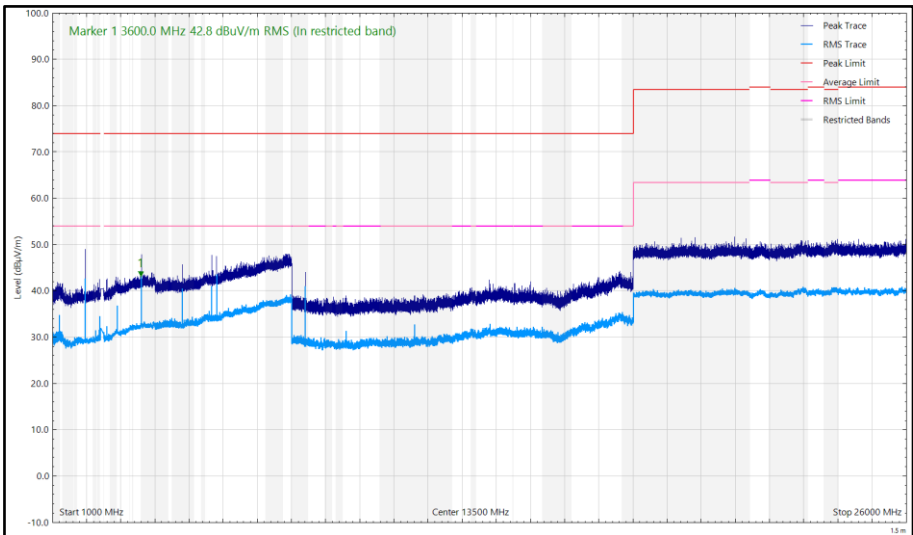


Figure 43 - CH78_DH5_Y, 2480 MHz, 1 GHz to 26 GHz, Horizontal

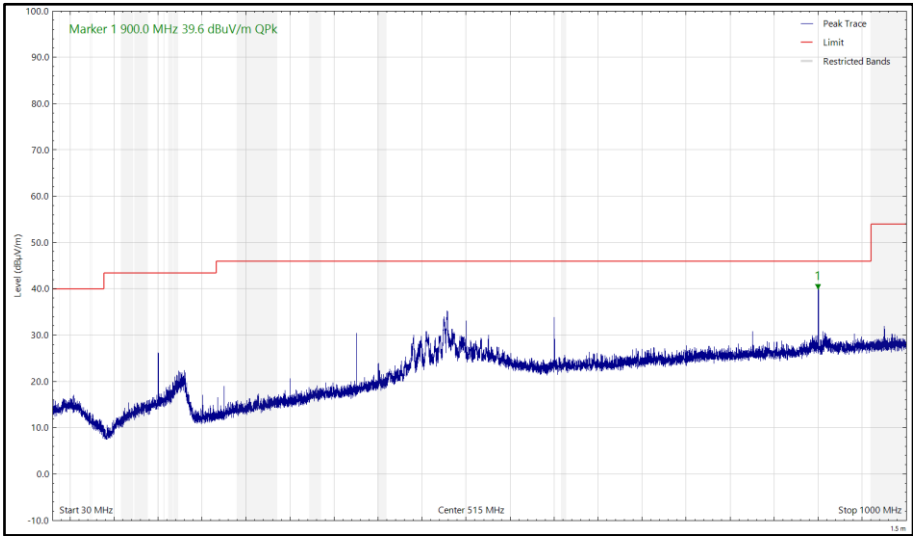


Figure 44 - CH78_DH5_Y, 2480 MHz, 30 MHz to 1 GHz, Vertical (Peak)

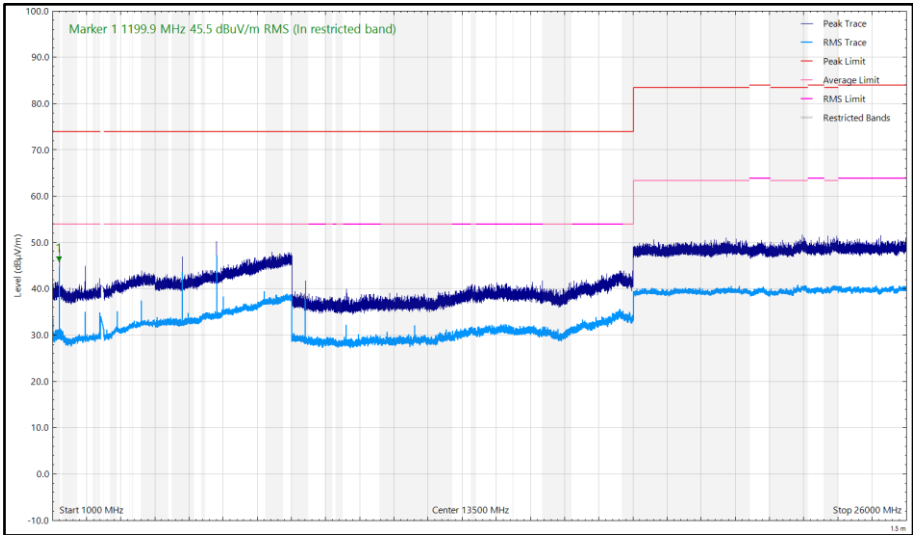


Figure 45 - CH78_DH5_Y, 2480 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation	Orientation
899.963	42.53	46.00	-3.47	Q-Peak	24	100	Horizontal	Z
1199.958	45.20	54.00	-8.80	RMS	16	147	Horizontal	Z
3600.004	43.77	54.00	-10.23	RMS	342	151	Vertical	Z

Table 32 - CH78_DH5_Z, 2480 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

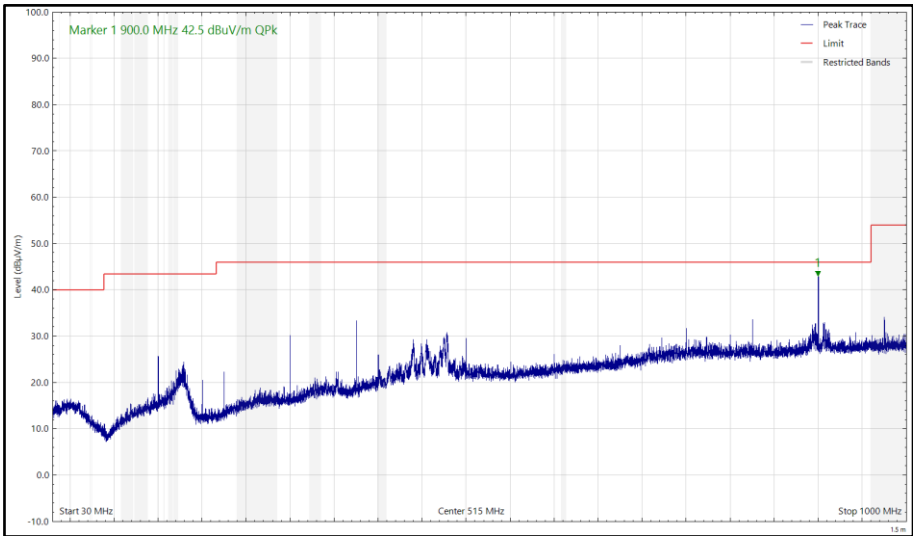


Figure 46 - CH78_DH5_Z, 2480 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

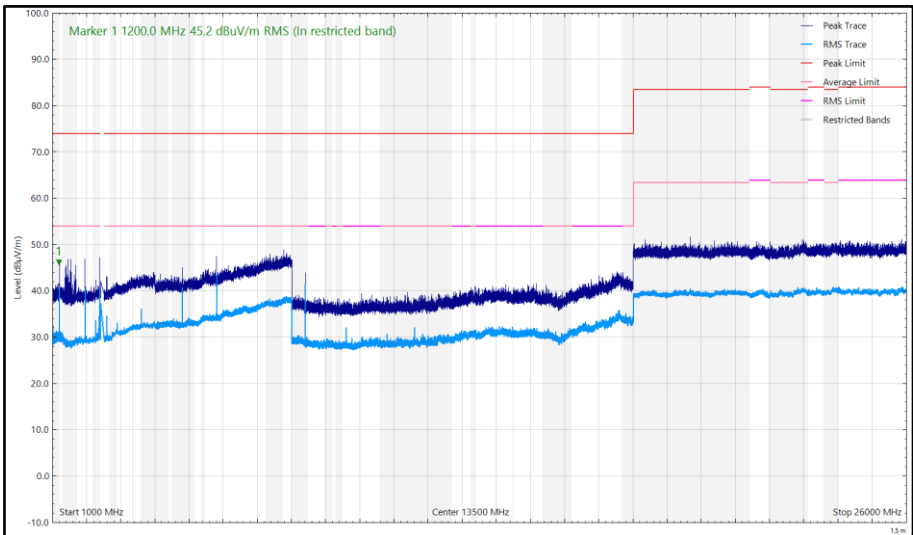


Figure 47 - CH78_DH5_Z, 2480 MHz, 1 GHz to 26 GHz, Horizontal

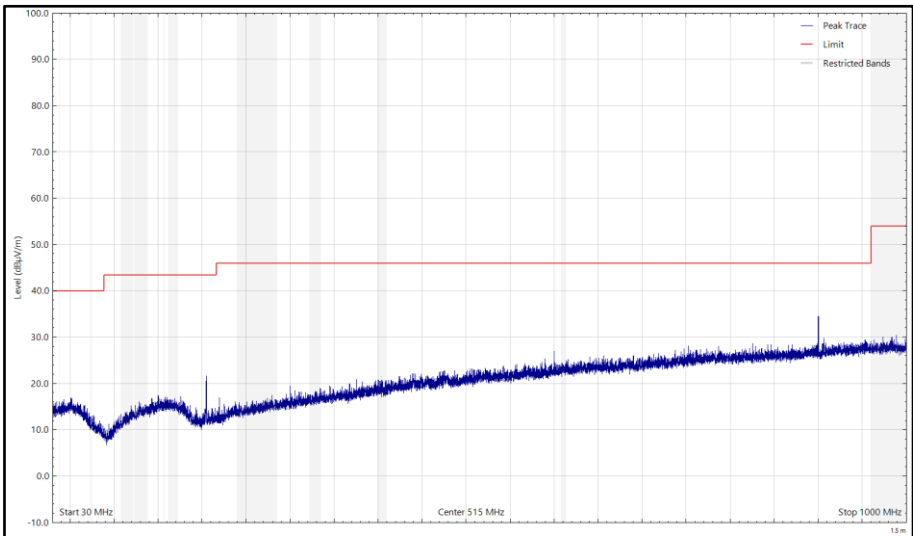


Figure 48 - CH78_DH5_Z, 2480 MHz, 30 MHz to 1 GHz, Vertical (Peak)

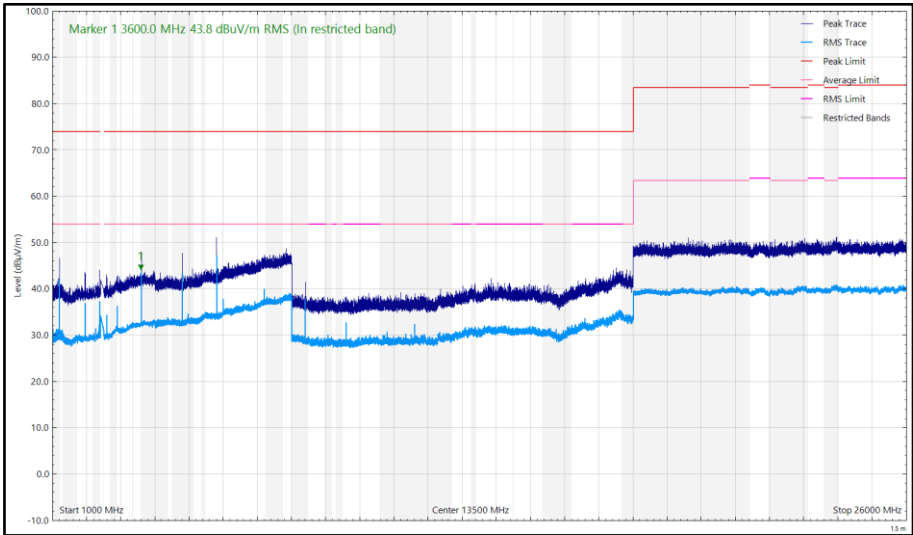


Figure 49 - CH78_DH5_Z, 2480 MHz, 1 GHz to 26 GHz, Vertical



2.4 GHz Bluetooth Low Energy

Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
*								

Table 33 - CH17_LE1M_X, 2440 MHz, 30 MHz to 26 GHz

*No emissions found within 10 dB of the limit.

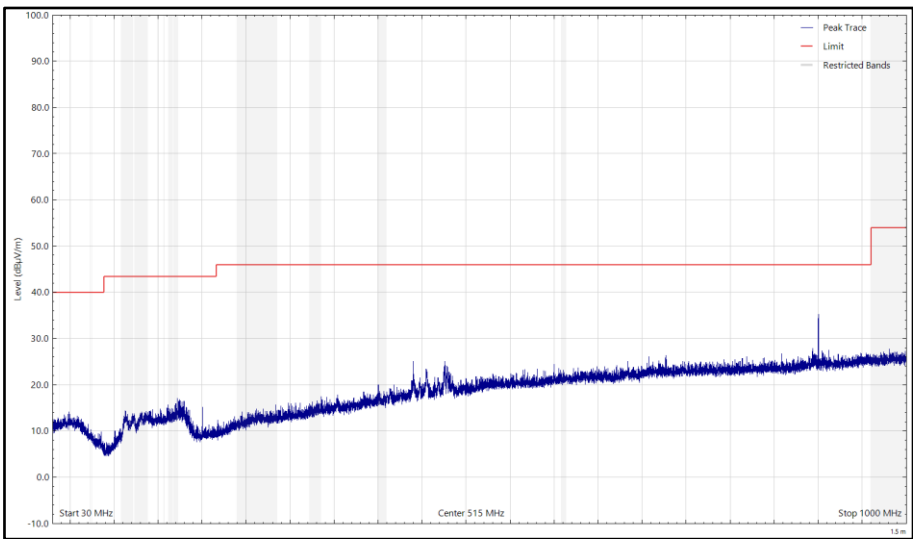


Figure 50 - CH17_LE1M_X, 2440 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

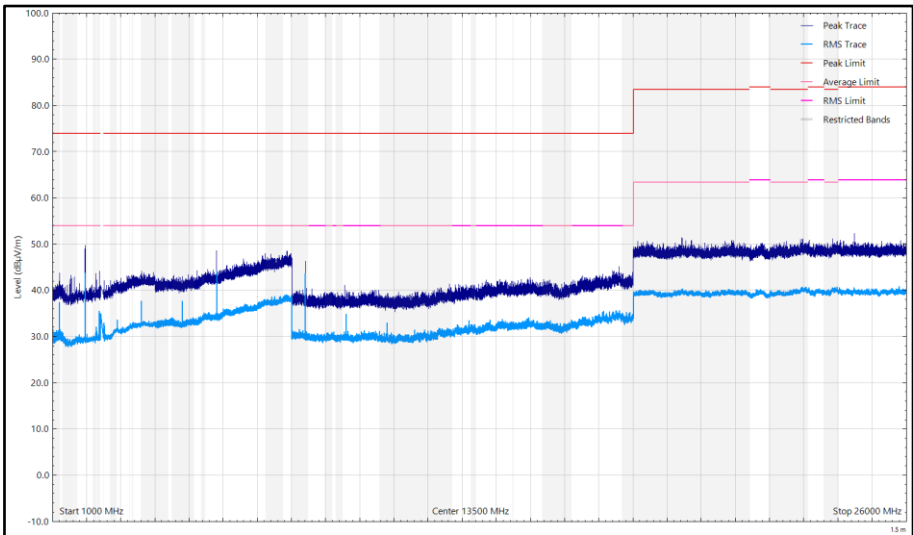


Figure 51 - CH17_LE1M_X, 2440 MHz, 1 GHz to 26 GHz, Horizontal

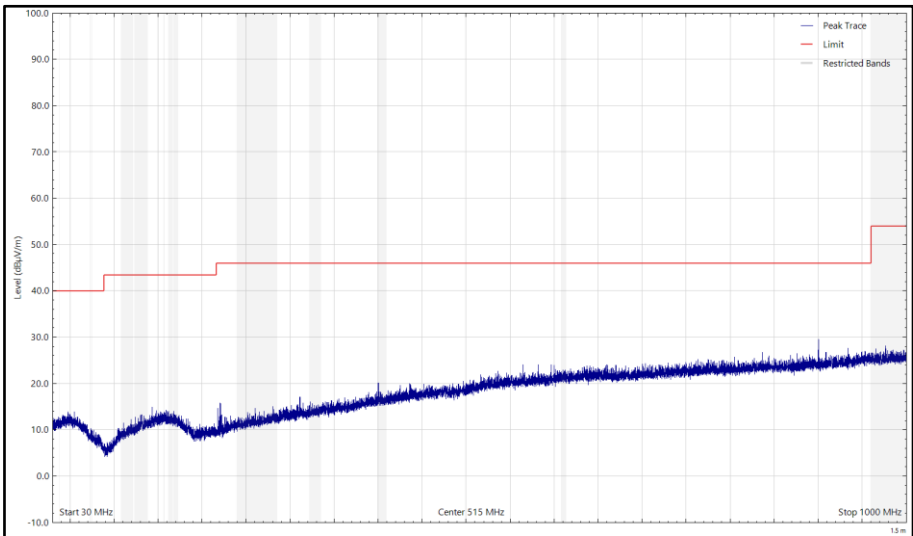


Figure 52 - CH17_LE1M_X, 2440 MHz, 30 MHz to 1 GHz, Vertical (Peak)

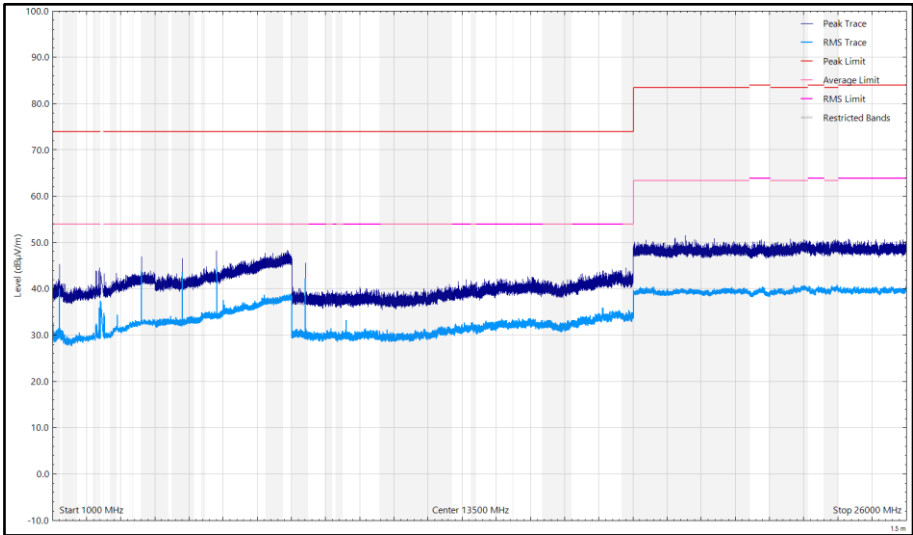


Figure 53 - CH17_LE1M_X, 2440 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
*								

Table 34 - CH17_LE1M_Y, 2440 MHz, 30 MHz to 26 GHz

*No emissions found within 10 dB of the limit.

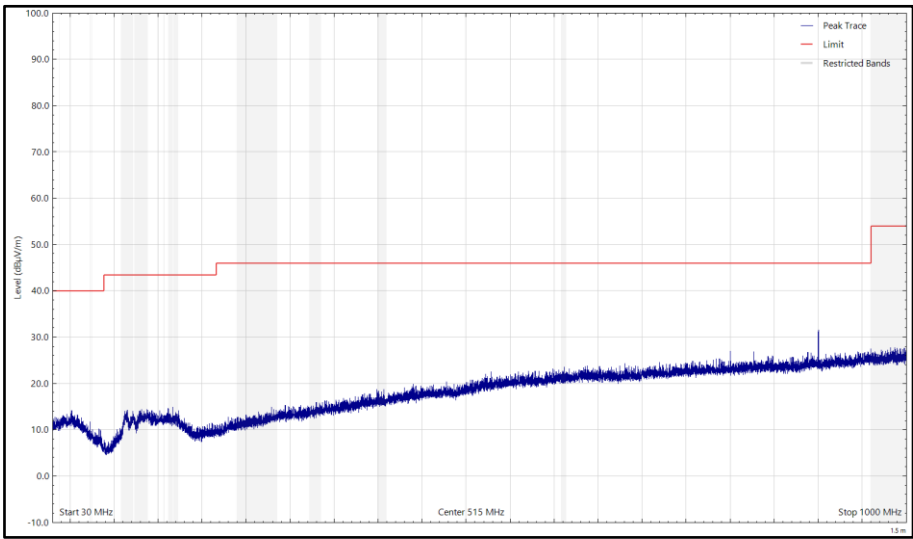


Figure 54 - CH17_LE1M_Y, 2440 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

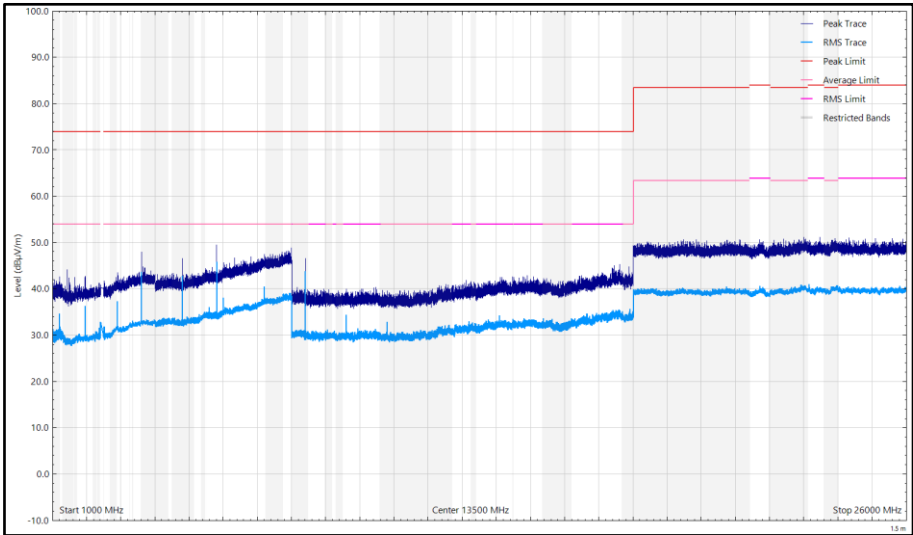


Figure 55 - CH17_LE1M_Y, 2440 MHz, 1 GHz to 26 GHz, Horizontal

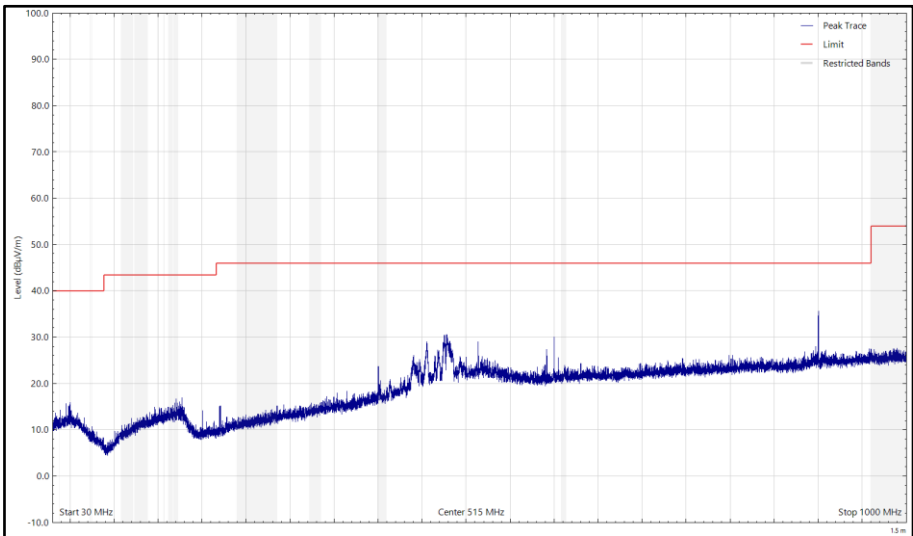


Figure 56 - CH17_LE1M_Y, 2440 MHz, 30 MHz to 1 GHz, Vertical (Peak)

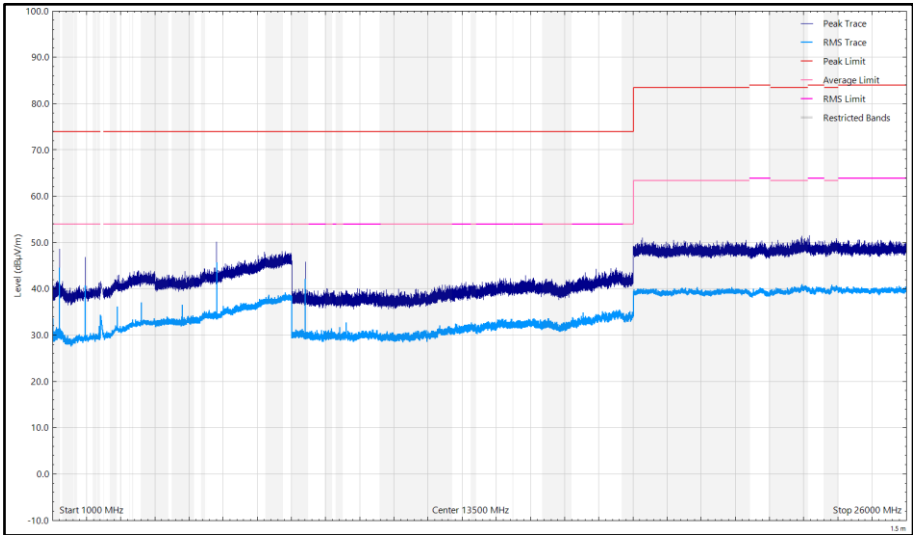


Figure 57 - CH17_LE1M_Y, 2440 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
899.969	36.41	46.00	-9.59	Q-Peak	dBuV/m	187	100	Horizontal
3600.004	43.89	54.00	-10.11	RMS	dBuv/m	349	201	Vertical

Table 35 - CH17_LE1M_Z, 2440 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

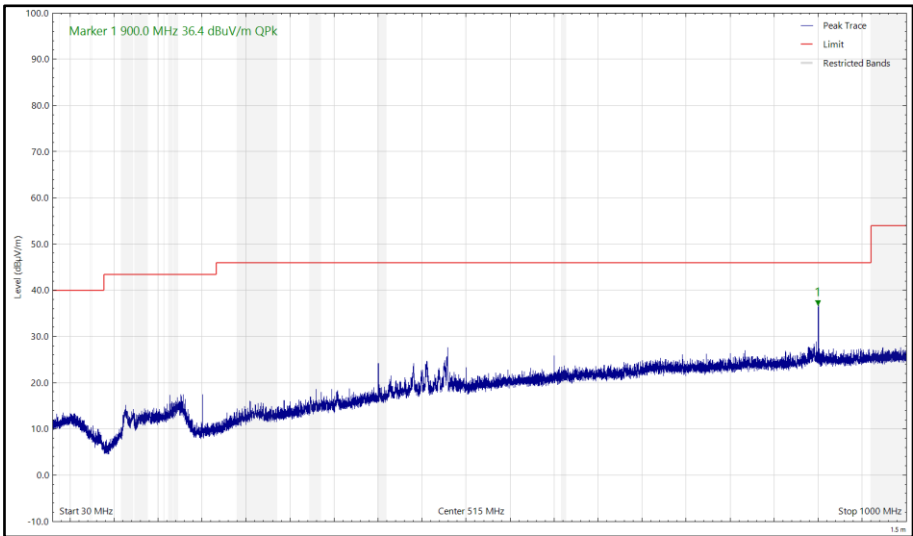


Figure 58 - CH17_LE1M_Z, 2440 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

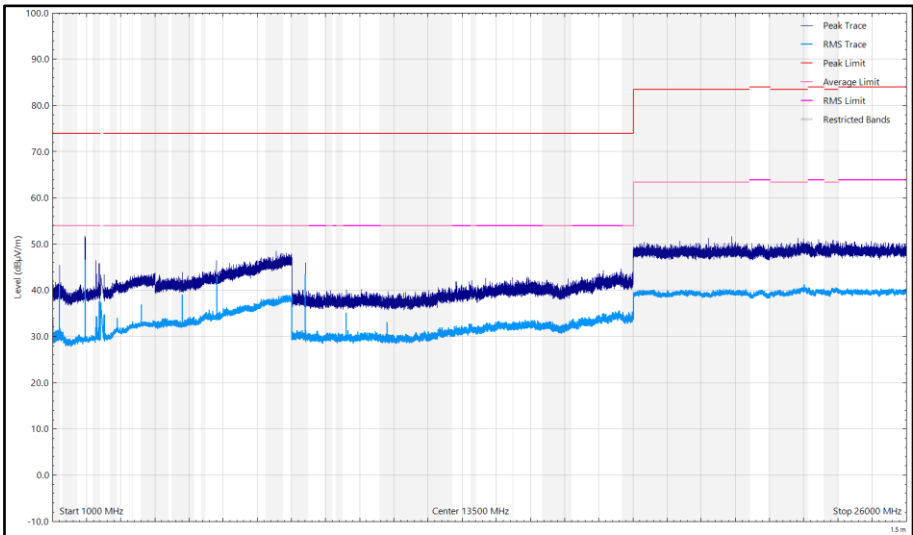


Figure 59 - CH17_LE1M_Z, 2440 MHz, 1 GHz to 26 GHz, Horizontal

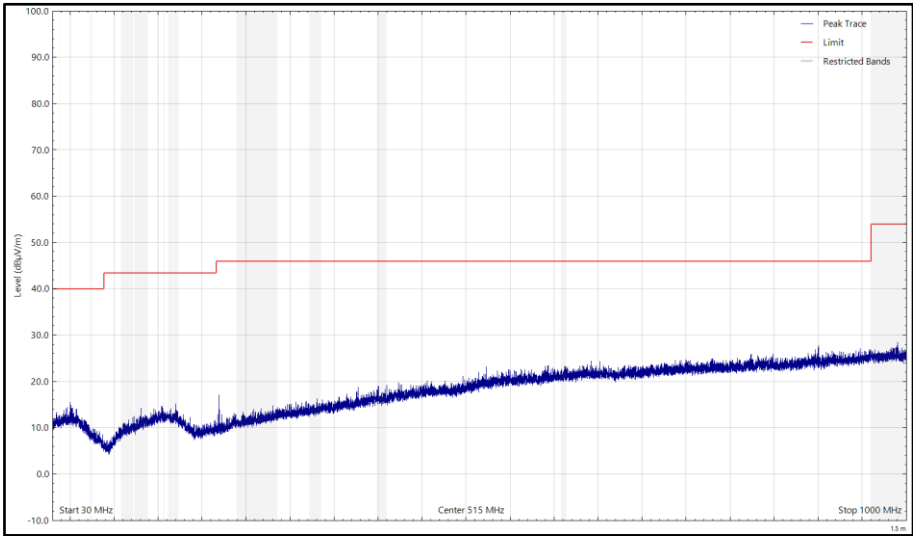


Figure 60 - CH17_LE1M_Z, 2440 MHz, 30 MHz to 1 GHz, Vertical (Peak)

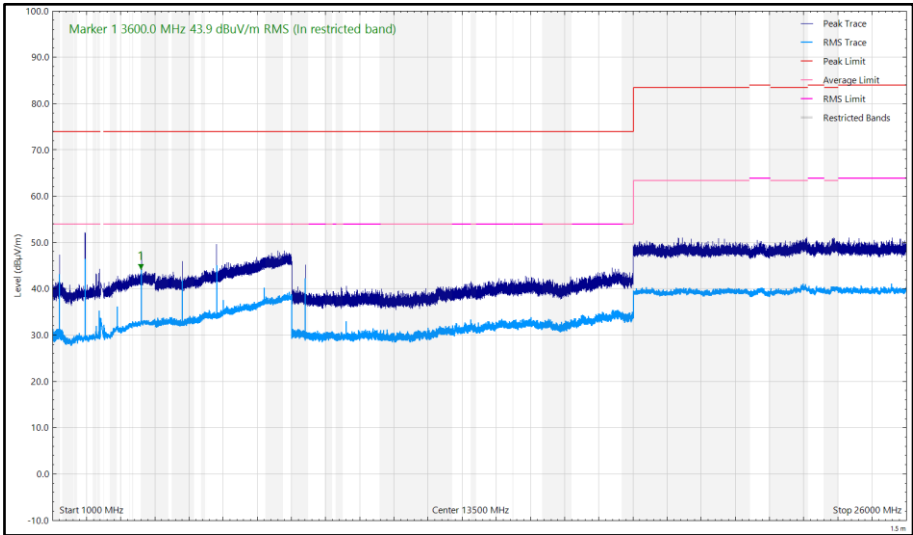


Figure 61 - CH17_LE1M_Z, 2440 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
3600.004	43.72	54.00	-10.28	RMS	dBuv/m	100	152	Vertical
8399.700	46.55	54.00	-7.45	RMS	dBuv/m	230	251	Horizontal

Table 36 - CH37_LE1M_X, 2402 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

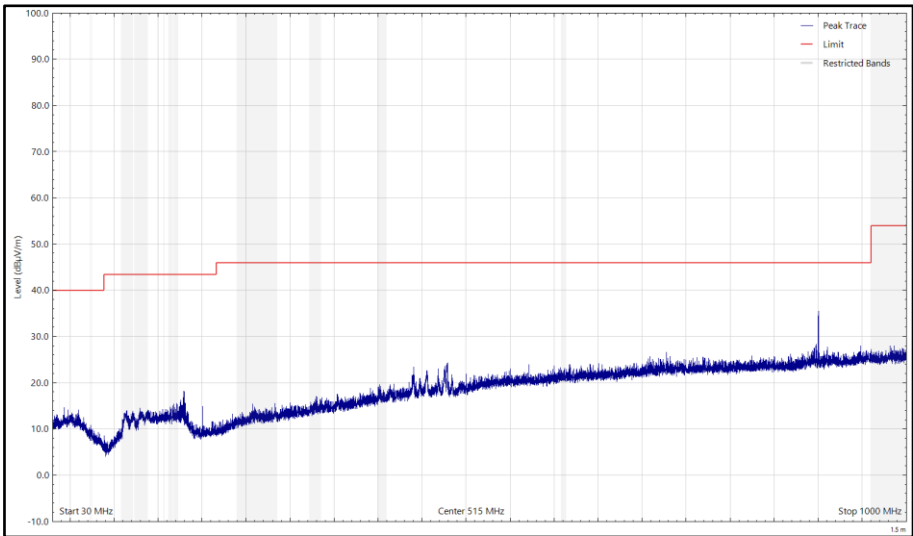


Figure 62 - CH37_LE1M_X, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

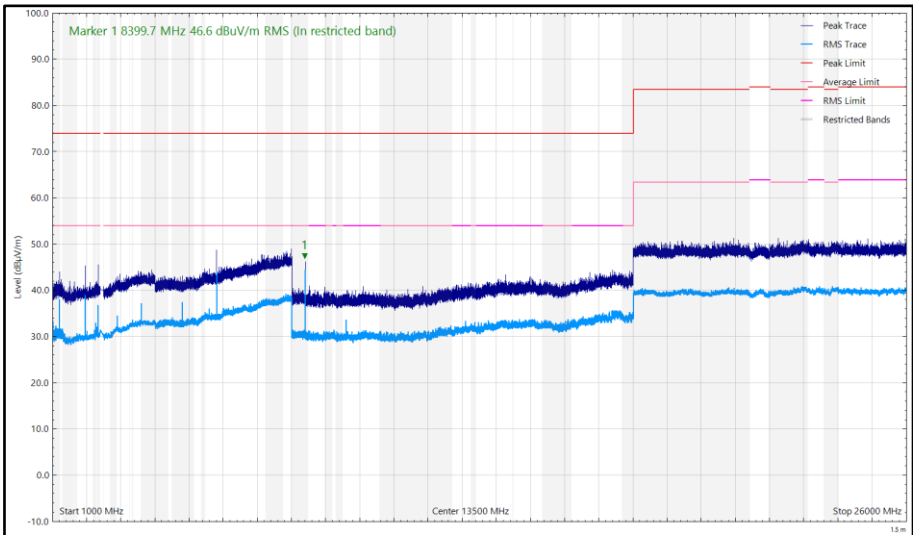


Figure 63 - CH37_LE1M_X, 2402 MHz, 1 GHz to 26 GHz, Horizontal

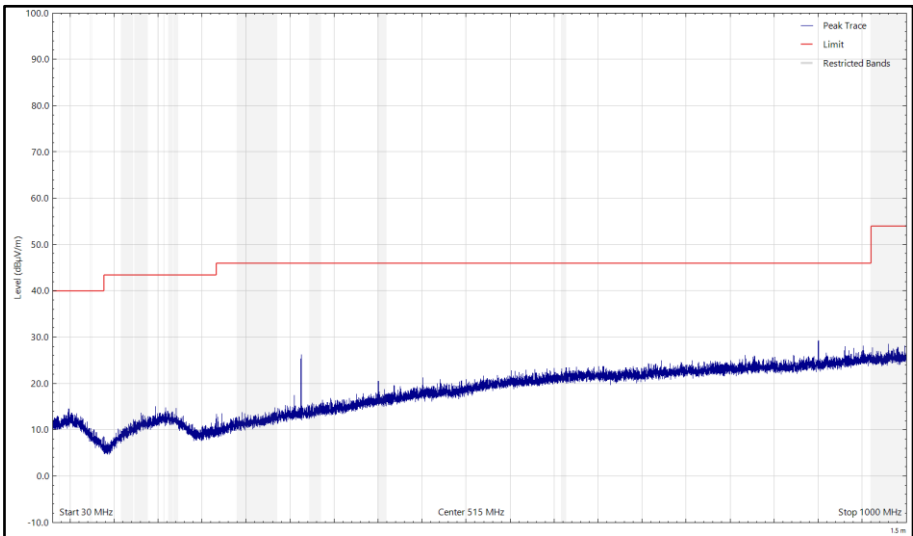


Figure 64 - CH37_LE1M_X, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

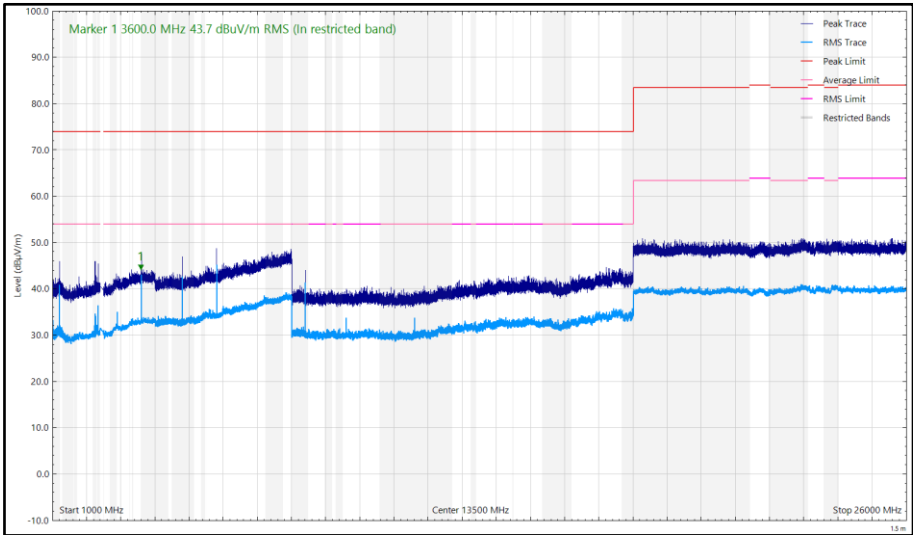


Figure 65 - CH37_LE1M_X, 2402 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
1199.944	47.09	54.00	-6.91	RMS	dBuv/m	5	239	Vertical
3600.004	42.36	54.00	-11.64	RMS	dBuv/m	353	152	Horizontal

Table 37 - CH37_LE1M_Y, 2402 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

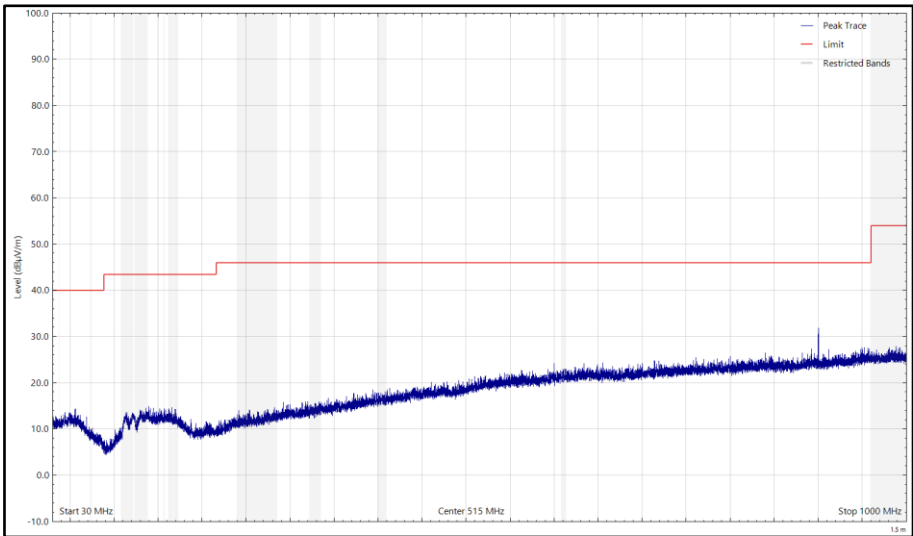


Figure 66 - CH37_LE1M_Y, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

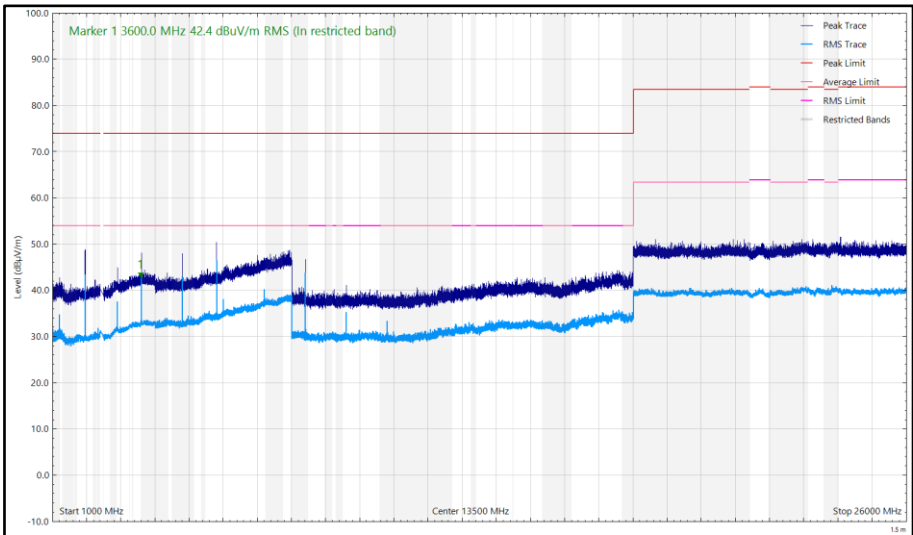


Figure 67 - CH37_LE1M_Y, 2402 MHz, 1 GHz to 26 GHz, Horizontal

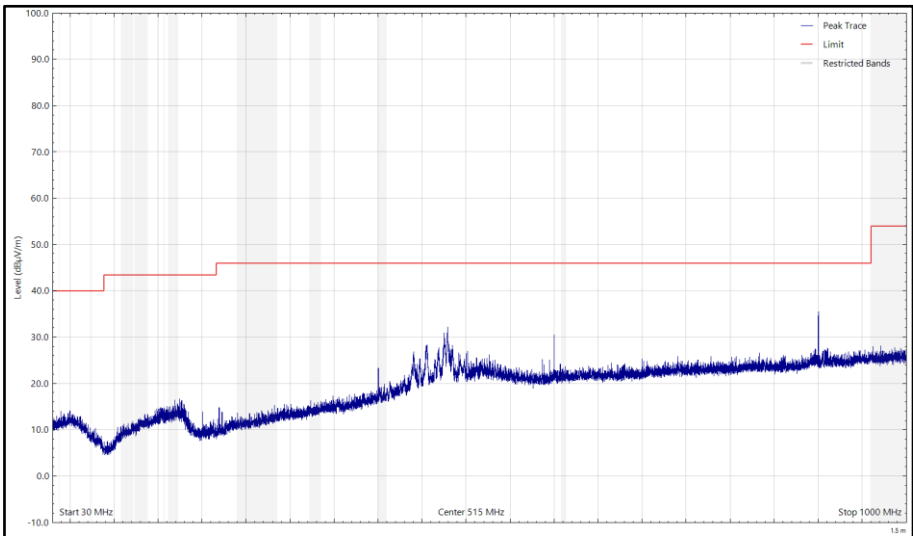


Figure 68 - CH37_LE1M_Y, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

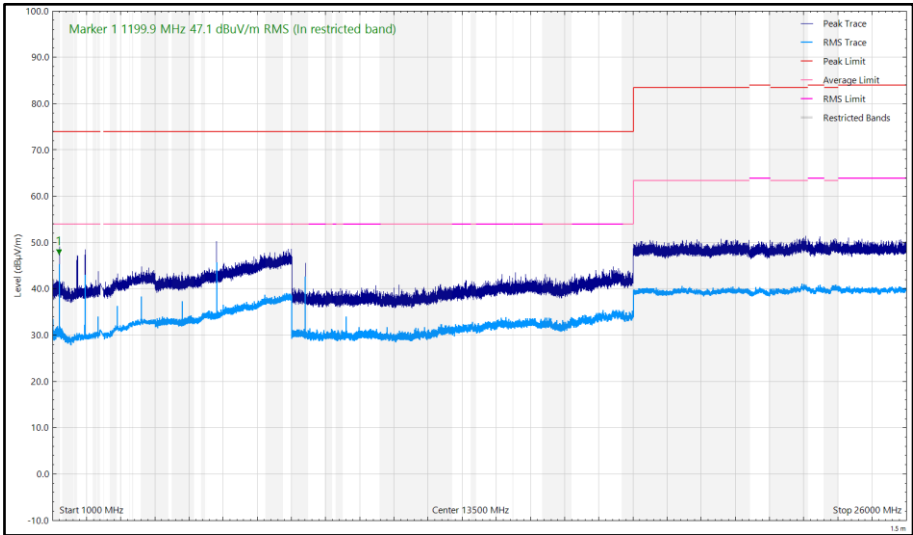


Figure 69 - CH37_LE1M_Y, 2402 MHz, 1 GHz to 26 GHz, Vertical



Frequency (MHz)	Level	Limit	Margin (dB)	Detector	Unit	Angle (°)	Height (cm)	Polarisation
899.972	36.29	46.00	-9.71	Q-Peak	dBuV/m	185	100	Horizontal
3600.004	43.89	54.00	-10.11	RMS	dBuv/m	346	153	Vertical

Table 38 - CH37_LE1M_Z, 2402 MHz, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

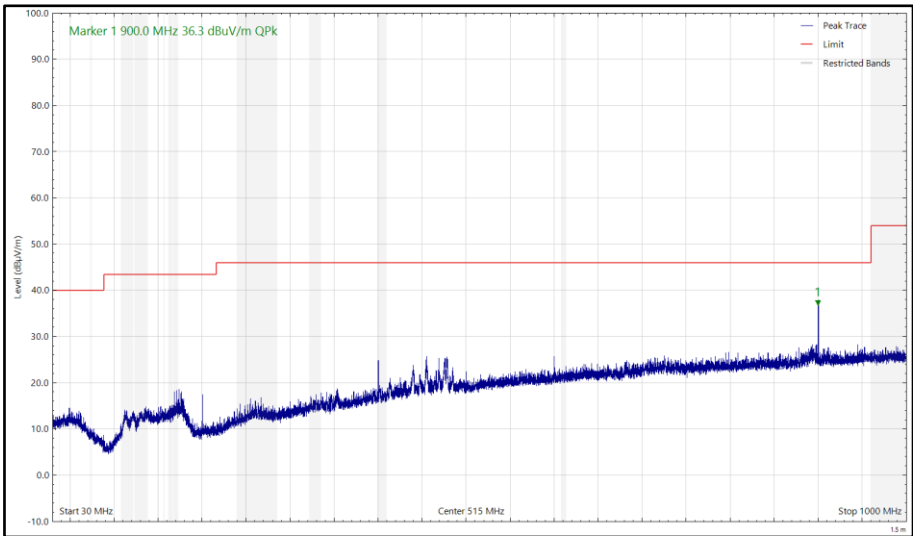


Figure 70 - CH37_LE1M_Z, 2402 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

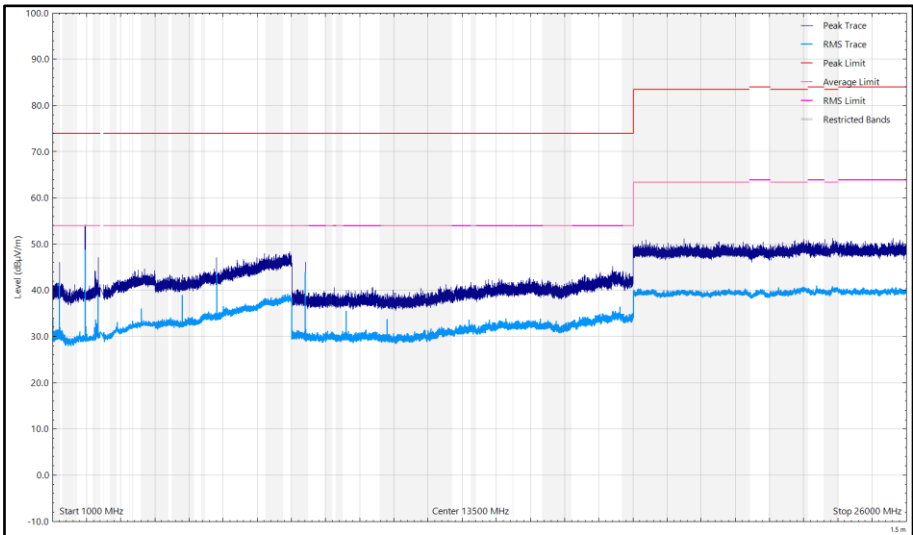


Figure 71 - CH37_LE1M_Z, 2402 MHz, 1 GHz to 26 GHz, Horizontal

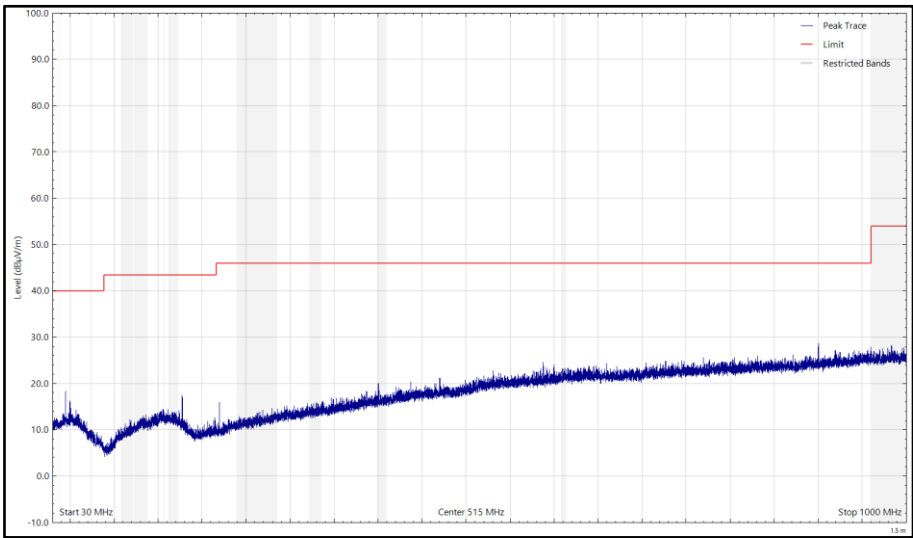


Figure 72 - CH37_LE1M_Z, 2402 MHz, 30 MHz to 1 GHz, Vertical (Peak)

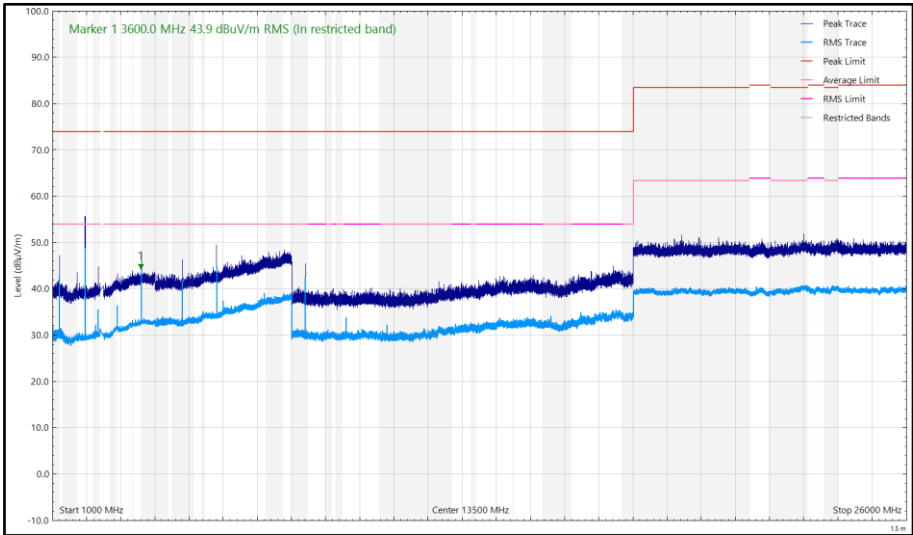


Figure 73 - CH37_LE1M_Z, 2402 MHz, 1 GHz to 26 GHz, Vertical