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RADIO COMPLIANCE REPORT
Certification Test Report
In accordance with:
CFR47 FCC Part 15, Subpart C, 15.247

Setec BMPRO Pty Ltd

RVSWT101

Wireless Wall Switch

FCC ID: 2ASJH-RVSWT101

REPORT: E2206-1550-4
DATE: July, 2022

Accreditation Number: 18553
Accredited for compliance with ISO/IEC 17025 - Testing

Certificate of Compliance
Certification Compliance Report
EMC Bayswater Test Report: E2206-1550-4
Issue Date: July, 2022

Test Sample(s):	Wireless Wall Switch
Model No:	RVSWT101
Serial No:	None (engineering sample)
FCC ID:	2ASJH-RVSWT101

Client Details:

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Test Specification: CFR47 FCC Part 15, Subpart C, 15.247

Results Summary:

15.203 - Antenna requirement	***Complied***
15.247 (a)(2) - 6dB Bandwidth	***Complied***
15.247 (b)(3) - Maximum Output Power	***Complied***
15.247 (d) - Out-of-Band Emissions - – 100kHz, -20dBc	***Complied***
15.247 (d) - Emissions on the Band edge	***Complied***
15.247 (d), 15.209 - Radiated emissions in Restricted bands	***Complied***
15.247 (e) - Power Spectral Density	***Complied***
15.247 (i) - Radio frequency hazard	***Complied***

Test Date(s): 7th to 9th of June, 2022

Test House (Issued By):

EMC Bayswater Pty Ltd
18/88 Merrindale Drive
Croydon South
Victoria 3136
Australia

FCC Accredited Test Firm Registration number: 527798
FCC Accredited Test Firm Designation number: AU0004

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This is to certify that the necessary measurements were made by EMC Bayswater Pty Ltd, and that the Setec BMPRO Pty Ltd, RVSWT101, Wireless Wall Switch, has been tested in accordance with requirements contained in the appropriate commission regulations..

Prepared & tested by: Approved by:

09/07/2022 16:59

Adnan Zaman (EMC Test Engineer)	Neville Liyanapatabendige (Manager)	Date

Radio Compliance Report
for
Setec BMPRO Pty Ltd

Contents

1. Introduction

Electromagnetic Compatibility (EMC) tests were performed on a Setec BMPRO Pty Ltd, RVSWT101, Wireless Wall Switch in accordance with the requirements of Title 47 of the standard CFR47 FCC Part 15, Subpart C, 15.247.

2. Test Report Revision History

None

3. Report Information

EMC Bayswater Pty Ltd reports apply only to the specific samples tested under the stated test conditions. All samples tested were in good operating condition throughout the entire test program unless otherwise stated. EMC Bayswater Pty Ltd does not in any way guarantee the later performance of the product/equipment. It is the manufacturer's responsibility to ensure that additional production units of the tested model are manufactured with identical electrical and mechanical components. EMC Bayswater Pty Ltd shall have no liability for any deductions, inference or generalisations drawn by the clients or others from EMC Bayswater Pty Ltd issued reports. This report shall not be used to claim, constitute or imply product endorsement by EMC Bayswater Pty Ltd. This report shall not be reproduced except in full (with the exception of the certificate on page 2) without the written approval of EMC Bayswater Pty Ltd. This document may be altered or revised by EMC Bayswater Pty Ltd personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by EMC Bayswater Pty Ltd will nullify the document.

4. Summary of Results

The EUT complied with applicable requirements of CFR47 FCC Part 15, Subpart C, 15.247. Worst-case results are tabled as follows:

FCC Part 15C sections	Test	Result
15.203	Antenna Requirement	Complied[#1]
15.247 (a)(2)	6dB Bandwidth	Complied by 277kHz
15.247 (b)(3)	Maximum Peak Output Power	Complied by 31.1dB
15.247 (d)	Out-of-Band Emissions – 100kHz, -20dBc	Complied by at least >20dB
15.247 (d)	Emissions on the Band edge	Complied by 18.2dB
15.247 (d), 15.209	Radiated emissions in Restricted bands	Complied by 0.4dB[+]
15.247 (e)	Power Spectral Density	Complied by 17.8dB
	Occupied Bandwidth (99% Emission Bandwidth)	1067kHz

[+]Refer to relevant section for statement of measurement uncertainty.

[#1]The Antenna is permanently attached, internal to the device

Table 1: Summary of test results

5. Product Sample Details

5.1. EUT Description

The EUT (Equipment Under Test), as supplied by the client, is described as follows:

Product:	Wireless Wall Switch	
Model No:	RVSWT101	
Serial No:	None (engineering sample)	
Firmware:	037536 MODEL RVSWT101 Software Series-Rev5 (modified to provide continuous Bluetooth transmission and simulated pressing of button for testing purposes)	
Software:	N/A	
Power Specifications:	3V coin battery	
Dimensions:	60mm x 98mm x 15mm (Length x Width x Height)	
Weight:	0.05 kg	
EUT Type:	Wall-mounted	
Transmitter details:	Description:	Bluetooth Low Energy
	Type:	Nordic nRF52810
	Modulation:	GFSK
	Channels:	2.402 + k GHz, k= 0… 78
	Max power:	+4dBm
	Antenna:	PCB antenna
	FCC ID:	None
	IC:	None
	CE mark	No
	RCM Logo	No

(Customer supplied product information)

(Refer to photographs in Annex A & B for views of the EUT)

5.2. Product description

The EUT (Equipment Under Test) has been described by the customer as follows:

"RVSWT101 is a wall mounted wireless switch, which provides control of recreational vehicle (RV) features and accessories. This communicates with a control node, which is directly wired to the features and accessories of an RV."

(Customer supplied product description information)

The highest frequency generated or used in the device or on which the device operates or tunes as specified by the customer is 2.48GHz.

5.3. Support Equipment

Support Equipment:	Description:	Laptop
	Manufacturer:	HP
	Model No:	HP SpectreXT Pro 13-b000
	Serial No:	CND32513F9

5.4. Product operating modes

"Standby and Active modes"

(Customer supplied product operating mode information)

5.5. Product operating mode for testing

"Active mode"

(Customer supplied product operating mode for testing information)

5.6. Configuration

The EUT was either configured by the customer or configured using the customer's instructions.

Active mode. Firmware is configured for the Bluetooth to transmit continuously and for simulated continuous pressing of the buttons. As per customer instructions, the programming cable, used to configure Bluetooth, was left connected during testing. The programming cable was connected to a laptop outside the test chamber. The unit was oriented as shown below. A 3V coin battery was installed inside the unit. The device was connected to an external power supply as the internal battery cannot sustain extended periods of high current draw.

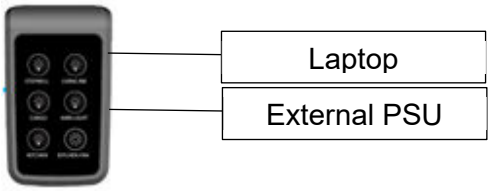


Figure 1: Block diagram of EUT test configuration

5.7. Modifications

EMC Bayswater Pty Ltd did not modify the EUT.

6. Test Facility & Equipment

6.1. Test Facility

Tests were performed at the indoor Open Area Test Site (iOATS) at EMC Bayswater Pty Ltd, located at 18/88 Merrindale Drive, Croydon South, Victoria, 3136, Australia.

EMC Bayswater Pty Ltd FCC Test Firm registration number is 527798.

EMC Bayswater Pty Ltd FCC Test Firm Designation number is AU0004.

6.2. Test Equipment

Refer to Appendix A for the measurement instrument list.

7. Referenced Standards

CFR47 FCC Part 15, Subpart C, 15.247

CFR47 FCC Part 15, Subpart B

ANSI C63.10 - 2013
American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

ANSI C63.4 - 2014
American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

FCC KDB - 558074 D01 15.247 Meas Guidance v05r02

8. Referenced Documents

Test Plan
Not supplied

9. Antenna Requirement – FCC Part 15.203

9.1. Requirements

As per section 15.203 of CFR47 FCC Part 15, Subpart C, 15.247:

- An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

9.2. Result

The EUT uses permanent, internally attached antenna which is etched into the PCB. Therefore, the EUT complied with the antenna requirements of CFR47 FCC Part 15, Subpart C, 15.247 Section 15.203.

10. 6dB Bandwidth – FCC 15.247 (a) (2)

10.1. Test Procedure

The 6dB Bandwidth was performed in accordance with the section 11.8 of ANSI C63.10 - 2013.

6dB Bandwidth measurements were performed at a distance of 3m from the EUT, using the spectrum analyser. The worst-case transmitter orientation, measurement antenna height and polarization were used for each measurement. The spectrum analyser was tuned to the fundamental (transmit frequency) of the transmitter bottom, centre and top channels with 100kHz RBW and 300kHz VBW using the peak detector and a suitable span to allow accurate measurements whilst capturing the full intentional transmission including side lobes. The resultant bandwidth measurement was recorded.

(Refer to photographs in Annex C for views of the test configuration)

10.2. Limits

Applicable only to systems using digital modulation techniques:

Transmit operating frequency (MHz)	Minimum 6dB Bandwidth (kHz)
2400 – 2483.5	500

Table 2: 6dB Bandwidth

10.3. Test Results

6dB Bandwidth measurements are tabulated below:

(Refer to graphs in Appendix C.1)

Transmit operating frequency (MHz)	Measured 6dB Bandwidth (kHz)	Minimum 6dB Bandwidth (kHz)	Margin (kHz)	Comment
2402 (Bottom)	777	500	+277	Complied
2426 (Middle)	791	500	+291	Complied
2480 (Top)	797	500	+297	Complied

Table 3: Results for 6dB Bandwidth

The measurement uncertainty was calculated as follows:

Measurement Parameter	Calculated measurement uncertainty
Operating Frequency	±10.5kHz
Bandwidth	±14.96kHz

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of *k=2* which gives a level of confidence of approximately 95%.

Climatic Conditions	
Temperature:	13.8 to 14.2°C
Humidity:	50 to 51%
Atmospheric pressure:	1010.8 to 1012.2hPa

Table 4: Climatic conditions

Notes: The minimum required 500kHz 6dB Bandwidth requirements were satisfied by at least 277kHz.

The transmitter was continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the 6dB Bandwidth requirements of CFR47 FCC Part 15, Subpart C, 15.247 (a)(2).

11. Occupied Channel Bandwidth (99% Emission Bandwidth)

11.1. Test Procedure

The 99% emission Bandwidth was performed in accordance with the section 6.9.3 of ANSI C63.10 - 2013.

The EUT was placed on a polystyrene support at a height of 1.5m above the ground reference plane. The measuring antenna was located at a distance of 3m from the EUT, using the spectrum analyser. The transmitter was operated at its maximum carrier power. The worst-case transmitter orientation, measurement antenna polarization were used for each measurement. The spectrum analyzer centre frequency was tuned to the fundamental (transmit frequency) of the transmitter with the span of the analyzer was set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth (RBW) was set to 1% to 5% of the occupied bandwidth and video bandwidth (VBW) was set to three times the RBW.

A peak detector, maxhold function (worst case) was used to measure the occupied bandwidth, using the built-in 99% occupied bandwidth measurement function of the receiver. The resultant bandwidth measurement was recorded.

(Refer to photographs in Annex C for views of the test configuration)

11.2. Requirements

No limits are defined in CFR47 FCC Part 15, Subpart C, 15.247.

11.3. Test Results

Occupied Bandwidth measurements are tabulated below:

(Refer to graph in Appendix C.6)

Transmit Operating Frequency (MHz)	99%BW Lower Frequency (MHz)	99%BW Upper Frequency (MHz)	Occupied Channel Bandwidth (kHz)
2402 (Lowest Channel)	2401.479	2402.546	1067
2426 (Middle Channel)	2425.478	2426.545	1067
2480 (Highest Channel)	2479.478	2480.545	1067

Table 5: Occupied Bandwidth

The measurement uncertainty was calculated as follows:

Measurement Parameter	Calculated measurement uncertainty
Operating Frequency	±10.5kHz
Bandwidth	±14.96kHz

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of *k=2* which gives a level of confidence of approximately 95%.

Climatic Conditions	
Temperature:	13.8 to 14.2°C
Humidity:	50 to 51%
Atmospheric pressure:	1010.8 to 1012.2hPa

Table 6: Climatic conditions

Notes: The transmitter was tested with modulation applied.

Assessment: The measured Occupied bandwidth (99% Emission Bandwidth) is 1067 kHz (informative only).

12. Maximum Peak Output Power – FCC 15.247 (b)(3)

12.1. Test Procedure

The Maximum Peak Output Power measurements were performed in accordance with ANSI C63.10 - 2013.

Radiated Emissions were measured 3 metres away from the EUT in the iOATS (indoor Open Area Test Site) facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane. The EUT was placed on a non-conductive support at a height of 1.5m above the ground plane.

A Horn antenna was used and an area of 3m x 3m was covered between the antenna and the EUT using RF absorbing material with a rated attenuation more than 20dB over the frequency range.

For both horizontal and vertical antenna polarizations, the peak detector was set to MAX-HOLD and the range selected continuously scanned with 1MHz RBW and 3MHz VBW. The antenna height was varied from 1 to 4 metres using the antenna bore-sighting technique and the turntable slowly rotated. The EUT was orientated in each of the X, Y and Z-axis, in-turn, to find the worst case emissions. The maximum emissions were recorded.

Plots of the accumulated measurement data for both horizontal and vertical antenna polarizations, including all transducer and other measuring system correction factors were produced using commercially available compliant software (as listed in the test equipment list of this report)

The EUT was tested on the top, middle and bottom channels.

(Refer to photographs in Annex C for views of the test configuration)

12.2. Limits

For systems using digital modulation techniques:

Transmit operating frequency (MHz)	Peak Power (W)	Peak Power (dBm)	e.i.r.p (W)	e.i.r.p (dBm)
2400 – 2483.5	1	30	4	36

Table 7: Limits – Transmitter maximum peak output power

12.3.Test Results

The worst-case maximum output power measurements are tabulated below:

(Refer to graphs in Appendix C.2)

Channel	Frequency (MHz)	Measured E-Field Peak (dBµV/m)	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	2402	100.1	4.9	36.0	**-31.1***	Complied
Middle	2426	98.9	3.8	36.0	-32.2	Complied
Top	2480	97.4	2.2	36.0	-33.8	Complied

**Worst-case emissions*

Table 8: Results for Maximum Peak Output Power

The measurement uncertainty was calculated at ±4.83dB. The reported uncertainty is an expanded uncertainty calculated using a coverage factor of approximately *k=2* which gives a level of confidence of approximately 95%.

Climatic Conditions	
Temperature:	13.8 to 14.2°C
Humidity:	50 to 51%
Atmospheric pressure:	1010.8 to 1012.2hPa

Table 9: Climatic Conditions

Notes: The transmitter maximum output power was below the specified limit for the specified operating frequency.

The transmitter was continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the Transmitter Maximum Peak output power requirements of CFR47 FCC Part 15, Subpart C, 15.247 (b)(3).

13. Radiated emissions in Restricted bands – 15.247 (d), 15.209

13.1. Requirements

As per section 15.247(d) of 47 CFR Part 15 Subpart C:

- Radiated emissions which fall in the restricted bands, as defined in section 15.205(a) of 47 CFR Part 15 Subpart C, must also comply with the radiated emission limits specified in section15.209(a) of 47 CFR Part 15 Subpart C (see §15.205(c) of 47 CFR Part 15 Subpart C).

As per section 47 CFR Part 15 Subpart C section 15.209 (Radiated emissions, general requirements) the EUT is required to meet the limits that permit the highest field strength of the following table for the radiated emissions which fall in the restricted bands, as defined in section 15.205(a) of 47 CFR Part 15 Subpart C:

Frequency Range (MHz)	Limits at 3m (dBµV/m)
0.009 to 0.490	128.5 to 93.8
0.490 to 1.705	73.8 to 62.9
1.705 to 30.0	69.5
30.0 to 88	40.0
88.0 to 216.0	43.5
216.0 to 960.0	46.0
Above 960	54.0
NOTE: The lower limit shall apply at the transition frequency.	

Note 1: as per CFR FCC Part 15 section15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

Note 2: as per CFR FCC Part 15.35 (b) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level. Note that the use of a pulse desensitization correction factor may be needed to determine the total peak emission level. The instruction manual or application note for the measurement instrument should be consulted for determining pulse desensitization factors, as necessary.

Table 10: Limits for Radiated Spurious Emissions at distance of 3m – Restricted Bands

13.2.Test Procedure

The Radiated Emissions were performed in accordance with the section 11.12 of ANSI C63.10 - 2013.

Radiated Emissions were measured 3 metres (from 9kHz to 25GHz) away from the EUT in the iOATS (indoor Open Area Test Site) facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane. The EUT was placed on a non-conductive support at a height of 0.8m (9kHz to 1GHz) and 1.5m (1GHz to 25GHz) above the ground plane.

In the frequency range of 9kHz to 30MHz, an Active loop antenna was used. For X (Parallel), Y (Perpendicular) and Z (Ground-Parallel) antenna polarizations, the peak detector was set to MAX-HOLD and the range selected continuously scanned. The measuring antenna was positioned at 1m fixed height, and the turntable slowly rotated. The peak preview measurements were performed with a resolution bandwidth of 200Hz (9kHz to 150kHz), 9kHz (150kHz to 30MHz) and a video bandwidth of 30kHz. Peak emissions that exceeded the limit or were close to the applicable limit were investigated further. The frequency of each emission was then accurately determined. Each emission of interest was then in-turn maximised by using the turntable to rotate the EUT through 360 degrees to find the worst-case emission arrangement. Quasi peak measurements were then performed using a measuring time of no less than 15 seconds. The final quasi-peak measurements were performed using a receiver bandwidth of 6dB and a resolution bandwidth of 200Hz (9kHz to 150kHz) and 9kHz (150kHz to 30MHz).

In the frequency range of 30MHz to 1GHz, a Biconilog antenna was used. For both horizontal and vertical antenna polarizations, the peak detector was set to MAX-HOLD and the range selected continuously scanned. The measuring antenna was positioned at 4 different fixed height positions and the turntable slowly rotated. The peak preview measurements were performed with a resolution bandwidth of 120kHz and a video bandwidth of 300kHz. Peak emissions that exceeded the limit or were close to the applicable limit were investigated further. The frequency of each emission was then accurately determined. Each emission of interest was then in-turn maximised by using the turntable to rotate the EUT through 360 degrees and varying the height of the antenna between 1 and 4 metres to find the worst-case emission arrangement. Quasi peak measurements were then performed using a measuring time of no less than 15 seconds. The final quasi-peak measurements were performed using a receiver bandwidth of 6dB and a resolution bandwidth of 120kHz.

In the frequency range 1.0GHz to 26.5GHz a Horn antenna was used and an area of 3m x 3m was covered between the antenna and the EUT using RF absorbing material with a rated attenuation more than 20dB over the frequency range. The height of the horn antenna was varied using the antenna bore-sighting technique and the turntable slowly rotated to maximise the emissions. For both horizontal and vertical antenna polarizations, the Peak and Average preview measurements were performed with a resolution bandwidth of 1 MHz and a video bandwidth of 3MHz. Peak and average emissions that exceeded the applicable limit or were close to the applicable limit were investigated further. Each emission of interest was then in-turn maximised by using the turntable to rotate the EUT through 360 degrees and the antenna height varied (if applicable, using the antenna bore-sighting technique) to find the worst-case emission arrangement. Peak and CISPR Average measurements were then performed using a

measuring time of no less than 15 seconds, the maximum emission level in the observed duration was recorded as the final result. The final peak and CISPR Average measurements were performed using a receiver bandwidth of 6dB and a resolution bandwidth of 1 MHz. Peak and Average measurements were performed at spot frequencies where the peak or average emission was close to, or exceeded the applicable limit line with the EUT rotation and antenna height varied (if applicable, using the antenna bore-sighting technique) to produce the highest emission.

Plots of the accumulated measurement data for both horizontal and vertical antenna polarizations, including all transducer and other measuring system correction factors were produced using commercially available compliant software (as listed in the test equipment list of this report).

(Refer to photographs in Annex C for views of the test configuration)

13.3.Test Results

Transmitter Spurious Emissions measurements are detailed as follows:

(Refer to graphs in Appendix C.4)

Operating Channel: Bottom, Middle and Top				
Measurement Antenna Polarisation	**Frequency (MHz)**	**Result peak (dBµV/m)**	**Limit Quasi-peak/ Average (dBµV/m)**	**Delta limit (dB)**
X	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			
Y	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			
Z	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			

Table 11: Transmitter Spurious Emissions – 9kHz to 30MHz

Operating Channel: Bottom				
Measurement Antenna Polarisation	**Frequency (MHz)**	**Result Quasi-peak (dBµV/m)**	**Limit Quasi-peak (dBµV/m)**	**Delta limit (dB)**
Horizontal	37.712	20.1	40.0	-19.9
	611.806	27.6	46.0	**-18.4***
	968.136	32.1	54.0	-21.9
Vertical	37.760	20.0	40.0	-20.0
	612.631	27.6	46.0	**-18.4***
	985.402	32.2	54.0	-21.8

**Worst-case emissions*

Table 12: Transmitter Spurious Emissions – 30MHz to 1GHz

Operating Channel: Middle and Top				
Measurement Antenna Polarisation	**Frequency (MHz)**	**Result Quasi-peak (dBµV/m)**	**Limit Quasi-peak (dBµV/m)**	**Delta limit (dB)**
Horizontal	Peak preview emissions >10dB below limit or no significant emissions above the noise floor observed			
Vertical	Peak preview emissions >10dB below limit or no significant emissions above the noise floor observed			

Table 13: Transmitter Spurious Emissions – 30MHz to 1GHz

Operating Channel: Bottom, (2402MHz)								
Measurement Antenna Polarisation	**Peak Measurements**				**Average Measurements**			
	Frequency (MHz)	**Result (dBµV/m)**	**Limit (dBµV/m)**	**Delta Limit (dB)**	**Frequency (MHz)**	**Result (dBµV/m)**	**Limit (dBµV/m)**	**Delta Limit (dB)**
Horizontal	Peak emissions were not above the measurements system noise floor or at least 20dB below the limit				Average emissions were not above the measurements system noise floor or at least 10dB below the limit			
Vertical	Peak emissions were not above the measurements system noise floor or at least 20dB below the limit				Average emissions were not above the measurements system noise floor or at least 10dB below the limit			

Table 14: Transmitter Spurious Emissions – 1GHz to 26.5GHz

Operating Channel: Middle, (2426MHz)								
Measurement Antenna Polarisation	**Peak Measurements**				**Average Measurements**			
	Frequency (MHz)	**Result (dBµV/m)**	**Limit (dBµV/m)**	**Delta Limit (dB)**	**Frequency (MHz)**	**Result (dBµV/m)**	**Limit (dBµV/m)**	**Delta Limit (dB)**
Horizontal	7277.200	58.3	74.0	-15.7	7277.200	50.0	54.0	-4.0+
	Peak emissions were not above the measurements system noise floor or at least 20dB below the limit				Average emissions were not above the measurements system noise floor or at least 10dB below the limit			
Vertical	7278.880	60.4	74.0	-13.6	7277.200	52.6	54.0	**-1.4+***
	Peak emissions were not above the measurements system noise floor or at least 20dB below the limit				Average emissions were not above the measurements system noise floor or at least 10dB below the limit			

**Worst-case emission, +Refer to measurement uncertainty statement*

Table 15: Transmitter Spurious Emissions – 1GHz to 26.5GHz

Operating Channel: Top, (2480MHz)								
Measurement Antenna Polarisation	Peak Measurements				Average Measurements			
	Frequency (MHz)	Result (dBµV/m)	Limit (dBµV/m)	Delta Limit (dB)	Frequency (MHz)	Result (dBµV/m)	Limit (dBµV/m)	Delta Limit (dB)
Horizontal	2483.560	50.7	74.0	-23.3	2483.560	35.8	54.0	-18.2
	2484.600	45.6	74.0	-28.4	2484.340	34.9	54.0	-19.1
	7439.440	57.2	74.0	-16.8	7440.880	49.5	54.0	-4.5+
Vertical	2483.560	48.3	74.0	-25.7	2483.560	34.1	54.0	-19.9
	2485.120	45.4	74.0	-28.6	2484.860	32.5	54.0	-21.5
	7439.200	58.4	74.0	-15.6	7440.640	53.6	54.0	**-0.4+***

**Worst-case emissions, +Refer to measurement uncertainty statement*

Table 16: Transmitter Spurious Emissions – 1GHz to 26.5GHz

The measurement uncertainty was calculated as follows:

Measurement frequency range	Calculated measurement uncertainty
30MHz to 1GHz	±4.65dB
1GHz to 6GHz	±4.83dB
6GHz to 18GHz	±4.49dB
18GHz to 26.5GHz	±4.46dB

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of *k=2* which gives a level of confidence of approximately 95%.

Climatic Conditions	
Temperature:	13.5 to 15.8°C
Humidity:	50 to 54%
Atmospheric pressure:	1010.8 to 1018.8hPa

Table 17: Climatic conditions

Calculation: The above results are based upon the following calculation:

$$E = V_{QP/PK/AV} + AF - G_{Amp} + L_C$$

Where:

E = E-field in dBµV/m
$V_{QP/PK/AV}$ = Measured Voltage (Quasi Peak, Peak or Average) in dBµV
AF = Antenna Factor in dB(/m)
L_C = Cable and attenuator Loss in dB
G_{Amp} = Pre Amplifier Voltage Gain in dB

Example calculation:

$E = V_{PK} + AF - G_{Amp} + L_C$
E = 30dBµV + 12dB/m - 0dB + 2.3dB
E = 44.3 dBµV/m

Notes: All Transmitter Radiated spurious emissions in restricted bands measurements were below the specified limits.

Radiated Emissions measurements were made up to the 10th harmonic.

The transmitter was continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the Radiated emissions in Restricted bands requirements of CFR47 FCC Part 15, Subpart C, 15.247 (d).

14. Out of Band emissions (100kHz, -20dBc) - FCC 15.247 (d)

14.1. Test Procedure

The Out of band emissions in non-restricted bands were performed in accordance with the section 11.11 of ANSI C63.10 – 2013.

Radiated Emissions were measured 3 metres (from 30MHz to 25GHz) away from the EUT in the iOATS (indoor Open Area Test Site) facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane. The EUT was placed on a non-conductive support at a height of 0.8m (30MHz to 1GHz) and 1.5m (1GHz to 25GHz) above the ground plane.

Reference and emission level measurements were performed as per section 11.11.2 and 11.11.3 of ANSI ANSI C63.10 - 2013.

In the frequency range of 30MHz to 1GHz, a Biconilog antenna was used. For both horizontal and vertical antenna polarizations, the peak detector was set to MAX-HOLD and the range selected continuously scanned. The measuring antenna was positioned at 4 different fixed height positions and the turntable slowly rotated. The peak preview measurements were performed with a resolution bandwidth of 100 kHz and a video bandwidth of 300 kHz. Peak emissions that exceeded the limit or were close to the applicable limit were investigated further. The frequency of each emissions was then accurately determined. Each emission of interest was then in-turn maximised by using the turntable to rotate the EUT through 360 degrees and varying the height of the antenna between 1 and 4 metres to find the worst-case emission arrangement. Peak measurements were then performed using a measuring time of no less than 15 seconds.

In the frequency range 1.0GHz to 26.5GHz a Horn antenna was used and an area of 3m x 3m was covered between the antenna and the EUT using RF absorbing material with a rated attenuation more than 20dB over the frequency range. The height of the horn antenna was varied using the antenna bore-sighting technique and the turntable slowly rotated to maximise the emissions. For both horizontal and vertical antenna polarizations, the Peak preview measurements were performed with a resolution bandwidth of 100 Hz and a video bandwidth of 300 kHz. Peak emissions that exceeded the applicable limit or were close to the applicable limit were investigated further. Each emission of interest was then in-turn maximised by using the turntable to rotate the EUT through 360 degrees and the antenna height varied (if applicable, using the antenna bore-sighting technique) to find the worst-case emission arrangement. Peak measurements were then performed using a measuring time of no less than 15 seconds, the maximum emission level in the observed duration was recorded as the final result.

Plots of the accumulated measurement data for both horizontal and vertical antenna polarizations, including all transducer and other measuring system correction factors were produced using commercially available compliant software (as listed in the test equipment list of this report).

(Refer to photographs in Annex C for views of the test configuration)

14.2.Limits

As per section 15.247(d) of 47 CFR Part 15 Subpart C:

- In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of section 15.247 of 47 CFR Part 15 Subpart C, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in section 15.209(a) of 47 CFR Part 15 Subpart C is not required. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a) of 47 CFR Part 15 Subpart C, must also comply with the radiated emission limits specified in section15.209(a) of 47 CFR Part 15 Subpart C (see §15.205(c) of 47 CFR Part 15 Subpart C).

The measured highest fundamental channel PSD in 100kHz was +4.5dBm

Frequency Range (MHz)	Limits (dBm)
30MHz and 26.5GHz	-15.5

Table 18: Limits for Unwanted Emissions - -20dBc (Non-restricted bands)

14.3.Test Results

Unwanted emissions measurements are detailed as follows:

(Refer to graphs in Appendix C.4)

Channel	Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Delta limit (dB)
Bottom	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			
Middle	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			
Top	Peak preview emissions >20dB below limit or no significant emissions above the noise floor observed			

Table 19: Transmitter Out of Band emissions - -20dBc/100kHz

The measurement uncertainty was calculated as follows:

Measurement frequency range	Calculated measurement uncertainty
30MHz to 1GHz	±4.65dB
1GHz to 6GHz	±4.83dB
6GHz to 18GHz	±4.49dB
18GHz to 26.5GHz	±4.46dB
26.5GHz to 30GHz	±4.44dB

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of *k=2* which gives a level of confidence of approximately 95%. The referenced uncertainty standard specifies that determination of compliance shall be based on measurements without taking into account measurement uncertainty. However, the measurement uncertainty shall appear in the test report.

Notes: All Transmitter Out of Band emissions measurements were below the specified limits (-20dBc).

Radiated measurements were made up to the 10th harmonic.

The transmitter was continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the Out of Band emissions (100kHz, -20dBc) requirements of CFR47 FCC Part 15, Subpart C, 15.247 (d).

15. Emissions on the Band edge – FCC 15.247 (d)

15.1. Test Procedure

The Band edge Measurement (100kHz, -20dB from fc & Restricted bands) was performed in accordance with the section 11.11, 11.12 and 11.13 of ANSI C63.10 – 2013.

Radiated measurements were performed within 2 MHz of the authorised band-edge.

At the lowest channel, 99% Occupied Band Width of the fundamental channel emission was within 2 MHz of the authorised Lower band edge therefore Marker-delta method was used. Unwanted emission at the lower band-edge were performed as per section 6.10.4 of ANSI C63.10 - 2013. At authorised-band band edge where the requiring band-edge emission attenuation is -20dB in a 100kHz bandwidth relative to the highest fundamental channel PSD in 100kHz. Radiated peak measurements were performed as per as section 6.10.4 of ANSI C63.10 - 2013.

The higher end of the authorised band-edge was in restricted-band therefore measurements were performed as per section 6.10.5 of ANSI C63.10 - 2013. The RSS-Gen general field strength limits are applicable to emission in restricted-band band-edge.

For highest channel, 99% Occupied bandwidth of the fundamental channel emission was not within 2MHz of the authorised High band edge (2483.5MHz).

(Refer to photographs in Annex C for views of the test configuration)

15.2. Limits

Band edge in Non-restricted Bands

As per CFR47 FCC Part 15, Subpart C, 15.247 (d) the EUT shall meet the requirements that in any given 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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.

The measured highest fundamental channel PSD in 100kHz was +4.5dBm

Band edge Frequencies	Limits (dBm)
Lower Edge (2402MHz)	-15.5

Table 20: Limits for Band edge - -20dBc (Non-restricted bands)

Band edge in Restricted Bands

As per CFR47 FCC Part 15, Subpart C, 15.247 (d) and 15.209 (Transmitter emission limits) the EUT is required to meet the limits that permit the highest field strength of the

following table for the radiated emissions which fall in the restricted bands, as defined in section 15.205(a) of 47 CFR Part 15 Subpart C :

Band edge Frequencies	Limits at 3m (dBμV/m)	
	Peak	Average
2483.5MHz to 2485.5	74.0	54.0

Table 21: Limits for Radiated Spurious Emissions at distance of 3m – Restricted Bands.

15.3.Test Results

Band edge measurements are detailed as follows:

(Refer to graphs in Appendix C.3)

Operating Channel: Bottom (2402MHz)				
Measurement Antenna Polarisation	Frequency (MHz)	Result Radiated Peak Power Spectral Density (dBm/100kHz)	Limit Radiated Peak Power Spectral Density (dBm/100kHz)	Delta limit (dB)
Horizontal	2399.726	-47.3	-15.5	-31.8
	2399.996	-40.7	-15.5	**-25.2***
Vertical	2399.789	-49.1	-15.5	-33.6
	2399.987	-43.7	-15.5	-28.2

**Worst-case emissions*

Table 22: Transmitter Emissions on the Band edge - Low end

Operating Channel: Top (2480MHz)								
Measurement Antenna Polarisation	Peak Measurements				Average Measurements			
	Frequency (MHz)	Result (dBμV/m)	Limit (dBμV/m)	Delta Limit (dB)	Frequency (MHz)	Result (dBμV/m)	Limit (dBμV/m)	Delta Limit (dB)
Horizontal	2483.560	50.7	74.0	-23.3	2483.560	35.8	54.0	**-18.2***
	2484.600	45.6	74.0	-28.4	2484.340	34.9	54.0	-19.1
Vertical	2483.560	48.3	74.0	-25.7	2483.560	34.1	54.0	-19.9
	2485.120	45.4	74.0	-28.6	2484.860	32.5	54.0	-21.5

**Worst-case emissions*

Table 23: Transmitter Emissions on the Band edge - High end

The measurement uncertainty was calculated as follows:

Measurement frequency range	Calculated measurement uncertainty
Radiated (1GHz to 6GHz)	±4.83dB

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of *k=2* which gives a level of confidence of approximately 95%.

Climatic Conditions	
Temperature:	13.8 to 14.2°C
Humidity:	50 to 51%
Atmospheric pressure:	1010.8 to 1012.2hPa

Table 24: Climatic conditions

Calculation: The above results are based upon the following calculation:

$$E = V_{QP/PK/AV} + AF - G_{Amp} + L_C$$

Where:

E = E-field in dBμV/m
$V_{QP/PK/AV}$ = Measured Voltage (Quasi Peak, Peak or Average) in dBμV
AF = Antenna Factor in dB(/m)
L_C = Cable and attenuator Loss in dB
G_{Amp} = Pre Amplifier Voltage Gain in dB

Example calculation:

$E = V_{PK} + AF - G_{Amp} + L_C$
$E = 30dB\mu V + 12dB/m - 0dB + 2.3dB$
$E = 44.3\ dB\mu V/m$

Notes: All Band edge measurements were below the specified limits.

The transmitter was continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the Transmitter Emissions on the Band edge requirements of CFR47 FCC Part 15, Subpart C, 15.247 (d).

16. Power Spectral Density – FCC 15.247 (e)

16.1. Test Procedure

The Power Spectral Density was performed in accordance with the section 11.10 of ANSI C63.10 - 2013.

The radiated peak power spectral density was measured 3 metres away from the EUT in the iOATS (indoor Open Area Test Site) facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane.

The EUT was placed on a polystyrene support at a height of 1.5m above the ground plane. For both horizontal and vertical antenna polarizations, peak detector was set to MAX-HOLD and the range selected continuously scanned. The antenna height was varied from 1 to 4 metres using the antenna bore-sighting technique and the turntable slowly rotated with X, Y and Z EUT orientations, in order to find the worst-case emission arrangement.

A 3m x 3m ground plane area (between antenna and the EUT) was covered using RF absorbing material (rated attenuation more than 20dB).

The EUT was tested on the lowest, middle and highest channels measured using a spectrum analyser with 3kHz RBW and 30kHz VBW using the peak detector and a suitable span to allow accurate measurement whilst capturing the full intentional transmission. The maximum emissions were recorded.

Plots of the accumulated measurement data including all transducer correction factors were produced using commercially available compliant software (as listed in the test equipment list of this report).

(Refer to photographs in Annex C for views of the test configuration)

16.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of CFR47 FCC Part 15, Subpart C, 15.247 (e). The same method of determining the conducted output power shall be used to determine the power spectral density.

Applicable only to systems using digital modulation techniques:

Transmit operating frequency (MHz)	Limit
2400 – 2483.5	8dBm/3kHz

Table 25: Power Spectral Density limits

16.3. Test Results

Power Spectral Density measurements are tabulated below:

(Refer to graphs in Appendix C.5)

Channel	Frequency (MHz)	Measured Power (dBm)	Limit (dBm/3kHz)	Margin (dB)	Result
Bottom	2402.033	-9.8	8.00	**-17.8***	Complied
Middle	2425.964	-11.6	8.00	-19.6	Complied
Top	2480.034	-12.7	8.00	-20.7	Complied

Table 26: Results for Power Spectral Density

The measurement uncertainty was calculated at ±4.83dB. The reported uncertainty is an expanded uncertainty calculated using a coverage factor of approximately *k=2* which gives a level of confidence of approximately 95%. The referenced uncertainty standard specifies that determination of compliance shall be based on measurements without taking into account measurement uncertainty. However, the measurement uncertainty shall appear in the test report.

Climatic Conditions	
Temperature:	13.8 to 14.2°C
Humidity:	50 to 51%
Atmospheric pressure:	1010.8 to 1012.2hPa

Table 27: Climatic conditions

Notes: All Power Spectral Density measurements were below the specified limits.

The transmitter was supplied by the customer to be continuously transmitting in modulated transmit mode.

Assessment: The EUT complied with the Power Spectral Density requirements of CFR47 FCC Part 15, Subpart C, 15.247 (e).

17. Conclusion

The Setec BMPRO Pty Ltd, RVSWT101, Wireless Wall Switch complied with the applicable requirements of CFR47 FCC Part 15, Subpart C, 15.247.

Appendix A – Test Equipment

Inv.	Equipment	Make	Model No.	Serial No.	Calibration		
					Interval	Due	Type
Transmitter Maximum EIRP, Power Spectral Density, 6dB Bandwidth and Band-edge							
1217	ANALYSER, EMI Receiver	Rohde & Schwarz	ESU40	100182	1 year	Jun-23	E
0633	ANTENNA, Double Ridge Horn	EMCO	3115	9712-5369	3 years	Aug-24	I
0559	PRE-AMP, Microwave, 18GHz	Miteq	AFS8	605305	1 year	Apr-23	I
0932	CONTROLLER, Position	Sunol Sciences	SC104V-3	081006-1	N/A	N/A	V
0933	TURNTABLE	Sunol Sciences	SM46C	081006-2	N/A	N/A	V
0934	MAST, Antenna	Sunol Sciences	TLT2	081006-5	N/A	N/A	V
0989	CABLE, Coax, Sucoflex 104A	Huber+Suhner	44454/4A	C357	1 year	Jan-23	I
1145	CABLE, Coax, Sucoflex 104PA	Huber + Suhner	84279564	SN MY056/4PA	1 year	Jan-23	I
1238	CABLE, Coax, Sucoflex 126 E	Huber + Suhner	10422876	SN 8000495/126E	1 year	Jan-23	I
0836	ATTENUATOR, 6dB	JFW	50HF-006N	-	3 years	Dec-24	I
1155	Hygrometer, Temp, Humidity	DigiTech	QM7312	-	2 years	Jul-23	I
0666	Enclosure, Semi-Anechoic, No 1	RFI Industries	S800 iOATS	1229	2.5 years	Jul-22	I
SW007	EMC Measurement Software	Rohde & Schwarz	EMC 32	Version 8.53.0	N/A	N/A	N/A
Transmitter Spurious Emissions							
1217	ANALYSER, EMI Receiver	Rohde & Schwarz	ESU40	100182	1 year	Jun-23	E
0935	ANTENNA, Biconilog	Sunol Sciences	JB5	A071106	2 years	Feb-23	E
0718	ATTENUATOR, 6dB	JFW	50FPE-006	-	1 year	Jan-23	I
0633	ANTENNA, Double Ridge Horn	EMCO	3115	9712-5369	3 years	Aug-24	I
0559	PRE-AMP, Microwave, 18GHz	Miteq	AFS8	605305	1 year	Apr-23	I
1193	Standard Gain Horn Antenna - 5.85GHz to 8.2GHz	A.H. Systems, inc	SAS-584	186	1 year	May-23	E
1194	Standard Gain Horn Antenna - 8.2GHz to 12.4GHz	A.H. Systems, inc	SAS-585	224	1 year	May-23	E
1195	Standard Gain Horn Antenna - 12.4GHz to 18.0GHz	A.H. Systems, inc	SAS-586	195	1 year	May-23	E
1196	Standard Gain Horn Antenna - 18.0GHz to 26.5GHz	A.H. Systems, inc	SAS-587	181	1 year	Apr-23	E
0932	CONTROLLER, Position	Sunol Sciences	SC104V-3	081006-1	N/A	N/A	V
0933	TURNTABLE	Sunol Sciences	SM46C	081006-2	N/A	N/A	V
0934	MAST, Antenna	Sunol Sciences	TLT2	081006-5	N/A	N/A	V
0989	CABLE, Coax, Sucoflex 104A	Huber+Suhner	44454/4A	C357	1 year	Jan-23	I
1145	CABLE, Coax, Sucoflex 104PA	Huber + Suhner	84279564	SN MY056/4PA	1 year	Jan-23	I
1238	CABLE, Coax, Sucoflex 126 E	Huber + Suhner	10422876	SN 8000495/126E	1 year	Jan-23	I
0836	ATTENUATOR, 6dB	JFW	50HF-006N	-	3 years	Dec-24	I
1010	CABLE, Coax, Sucoflex 104B	Huber+Suhner	00078/4B	C406	1 year	Jul-22	E
1009	CABLE, Coax, Sucoflex 104B	Huber+Suhner	00065/4B	C405	1 year	Jul-22	E
1064	PRE-AMP, Microwave, 26GHz	Miteq	AFS33	1696371	1 year	Aug-22	V
0024	ANTENNA, Active Loop	EMCO	6502	2620	2 years	Aug-23	I
1157	High Pass filter	Microwave Circuits	H3G213G1	476071	2 years	Aug-22	I
1155	Hygrometer, Temp, Humidity	DigiTech	QM7312	-	2 years	Jul-23	I
0666	Enclosure, Semi-Anechoic, No 1	RFI Industries	S800 iOATS	1229	2.5 years	Jul-22	I
SW007	EMC Measurement Software	Rohde & Schwarz	EMC 32	Version 8.53.0	N/A	N/A	N/A

V: Verification of operation against an internal reference
I: Internal calibration against a traceable standard
E: External calibration by a NATA or MRA equivalent endorsed facility
N/A: Not Applicable

Appendix B – Photographs

Annex	Number	Photograph Description
A	1	EUT – External views
A	2	
A	3	
A	4	
A	5	
A	6	
A	7	
B	1	EUT – Internal views
B	2	
B	3	
B	4	
B	5	
B	6	
B	7	
B	8	
B	9	
B	10	
B	11	
B	12	
B	13	EUT – View of the PCB trace antenna
B	14	EUT – View of sample with temporary DC power supply cable – Radiated method testing
B	15	
B	16	EUT – Battery
C	1	Radiated measurements – EUT Orientation
C	2	Radiated measurements – 9kHz to 30MHz – X Antenna orientation
C	3	Radiated measurements – 9kHz to 30MHz – Y Antenna orientation
C	4	Radiated measurements – 9kHz to 30MHz – Z Antenna orientation
C	5	Radiated measurements – below 1GHz
C	6	Radiated measurements – above 1GHz
C	7	Support Equipment – Laptop
C	8	
C	9	Programming Cable
C	10	
C	11	

EUT External Photographs	EMC Bayswater Test Report E2206-1550-4 Annex A
EUT Internal Photographs	EMC Bayswater Test Report E2206-1550-4 Annex B
EUT Orientations & Test Configurations Photographs	EMC Bayswater Test Report E2206-1550-4 Annex C

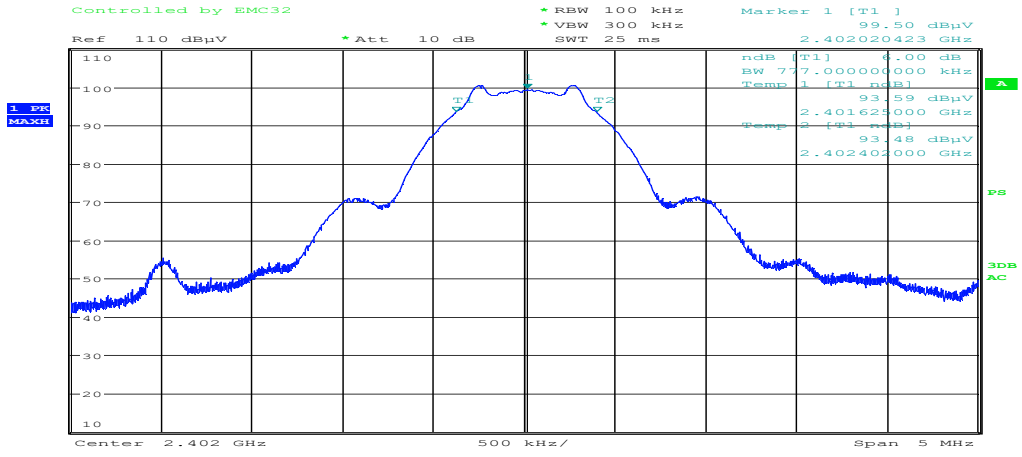
Appendix C.1 – Measurement Graphs – 6dB Bandwidth - 15.247 (a)(2)

No.	Test	Graph Description
1	6dB Bandwidth	2402MHz Channel
2		2426MHz Channel
3		2480MHz Channel

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - 6dB Bandwidth
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

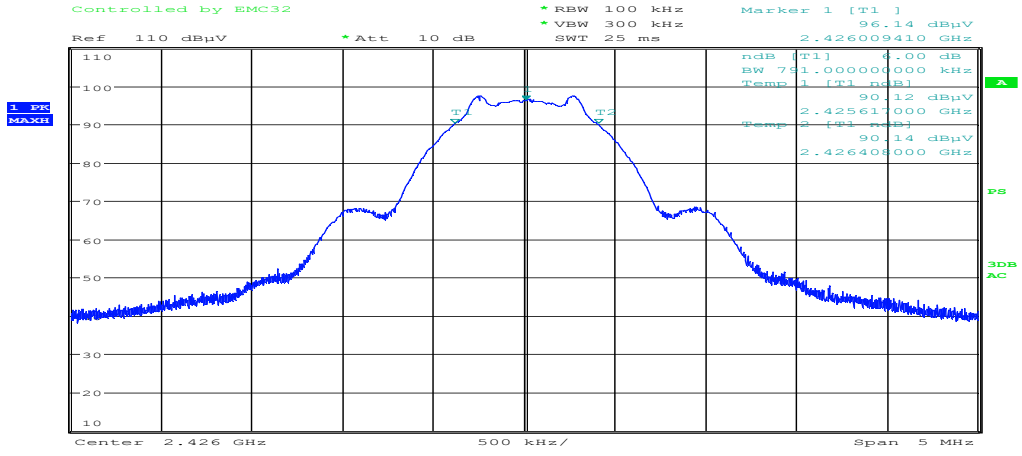


Graph 1

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - 6dB Bandwidth
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

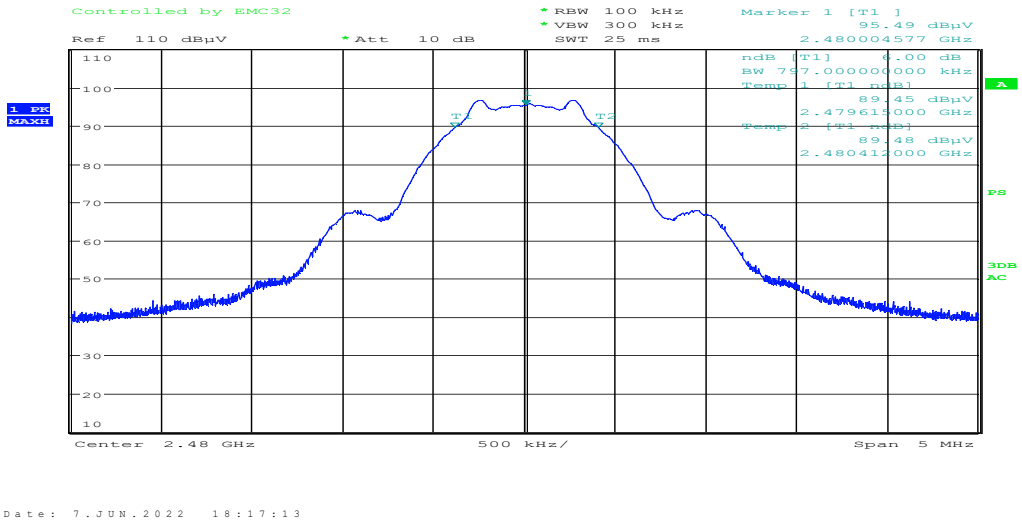


Graph 2

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - 6dB Bandwidth
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ



Graph 3

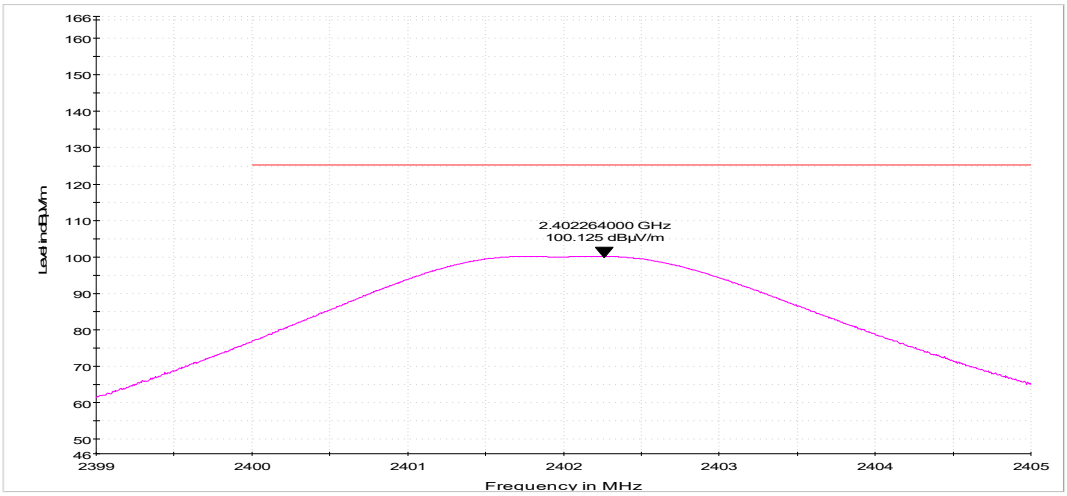
Appendix C.2 – Measurement Graphs – Maximum Peak Output Power - 15.247 (b)(3)

No.	Test	Graph Description
4	Maximum Peak Output Power	2402MHz Channel
5		2426MHz Channel
6		2480MHz Channel

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Maximum Peak Output Power
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

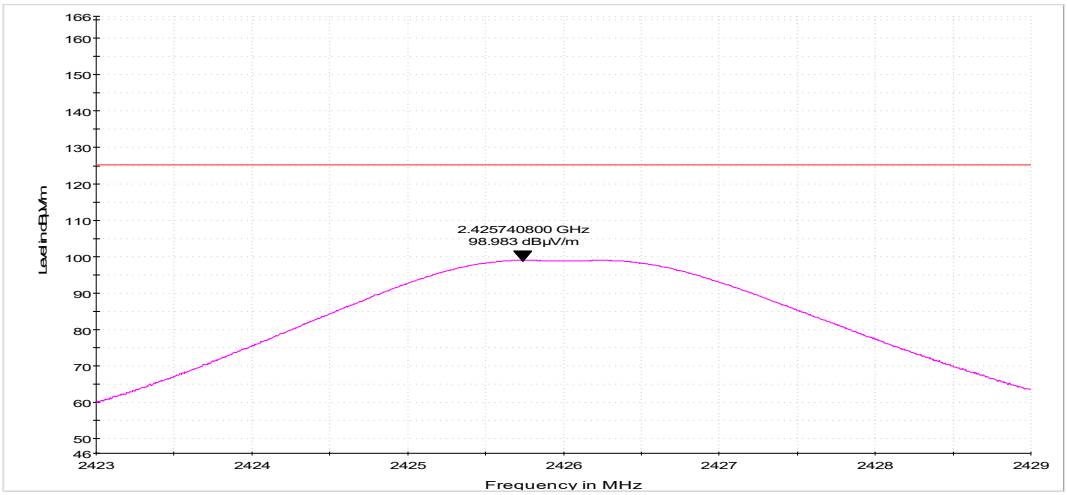


Graph 4

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Maximum Peak Output Power
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

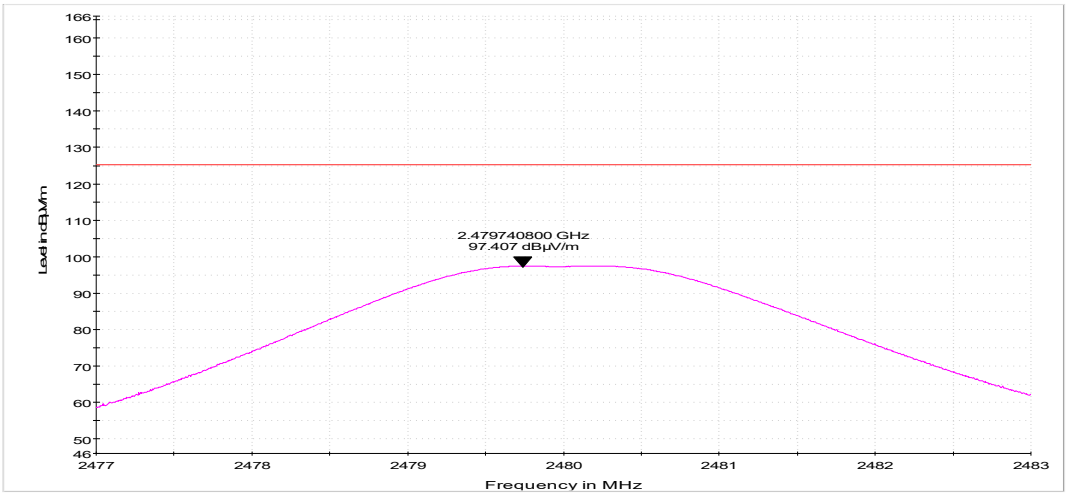


Graph 5

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Maximum Peak Output Power
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ



Graph 6

Appendix C.3 – Measurement Graphs – Band Edge - 15.247 (d)

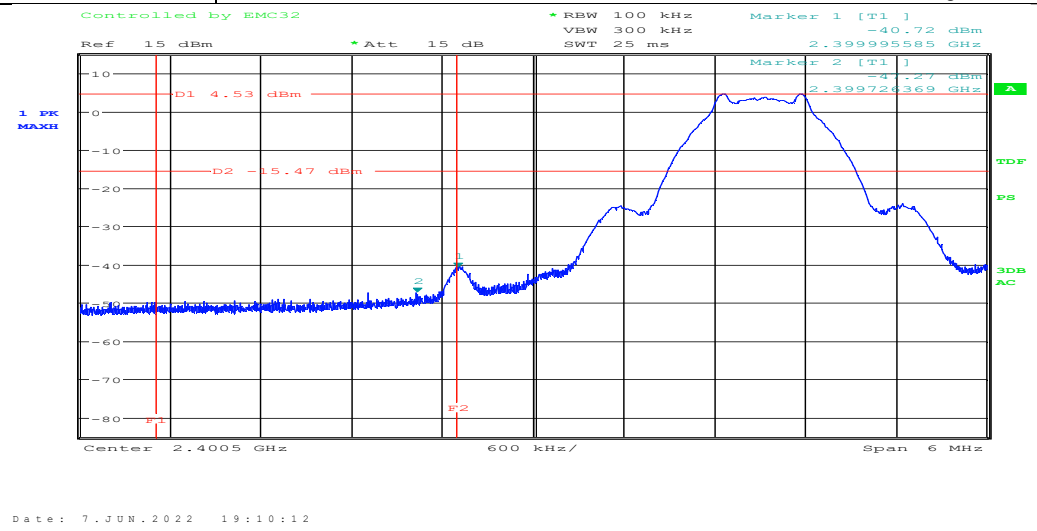
No.	Test	Graph Description
7	Band edge Measurement	2402MHz Channel (Non-restricted Band – Bandedge) – Horizontal measurement Antenna
8		2402MHz Channel (Non-restricted Band – Bandedge) – Vertical measurement Antenna
9	Band edge Measurement	2480MHz Channel (Restricted Bands) – Horizontal measurement Antenna
10		2480MHz Channel (Restricted Bands) – Vertical measurement Antenna

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Band edge Measurement (100kHz, -20dB from fc)
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel (Non-restricted Band – Bandedge) – Horizontal measurement Antenna

Job Number: E2206-1550-4

Test Engineer: AZ



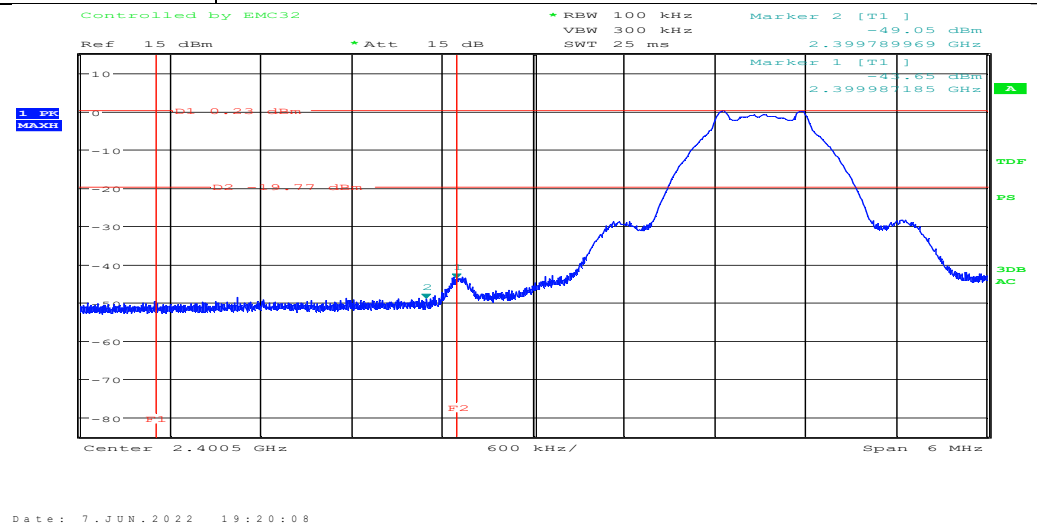
Graph 7

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Band edge Measurement (100kHz, -20dB from fc)
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel (Non-restricted Band – Bandedge) – Vertical measurement Antenna

Job Number: E2206-1550-4

Test Engineer: AZ

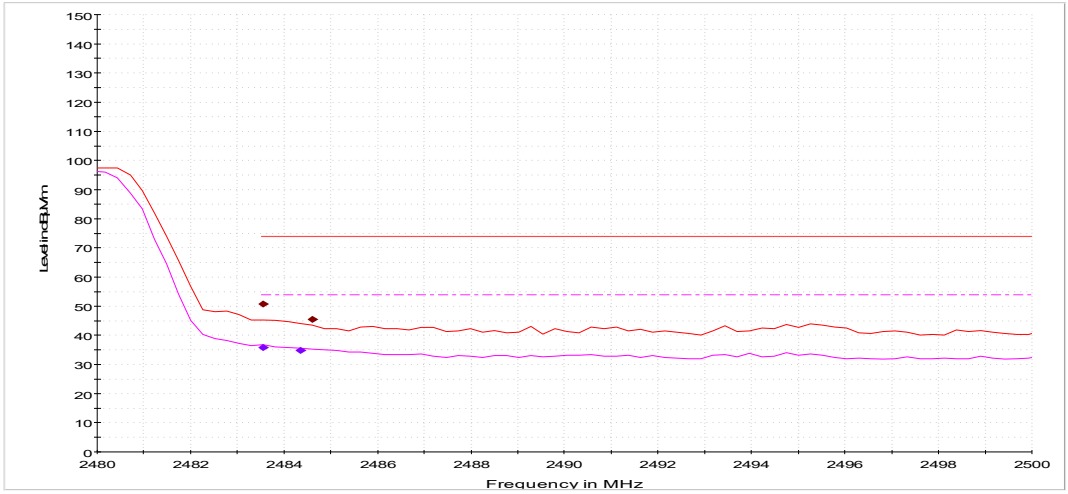


Graph 8

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Band edge Measurement
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel (Restricted Bands) – Horizontal measurement Antenna

Job Number: E2206-1550-4
Test Engineer: AZ

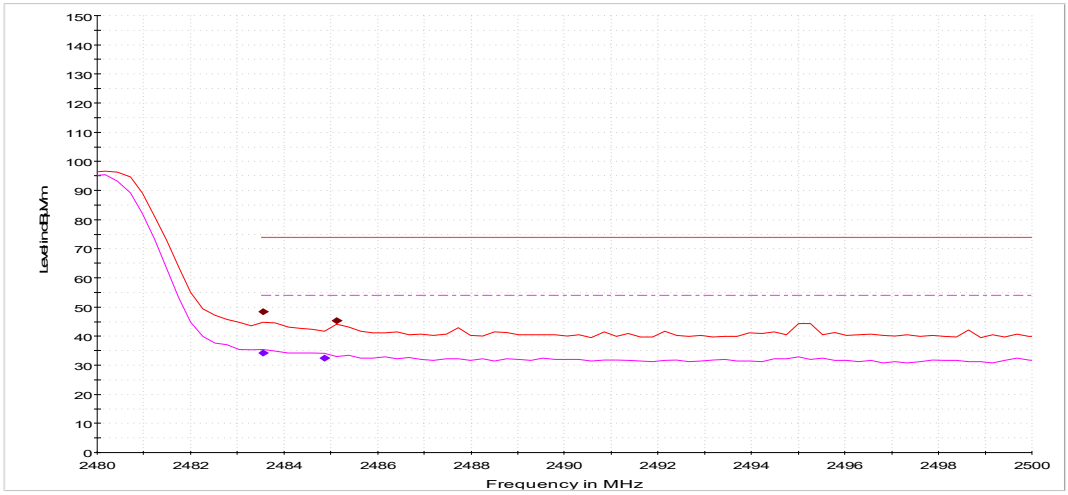


Graph 9

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Band edge Measurement
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel (Restricted Bands) – Vertical measurement Antenna

Job Number: E2206-1550-4
Test Engineer: AZ



Graph 10

Appendix C.4 – Measurement Graphs – Transmitter Spurious – FCC 15.247 (d), 15.209

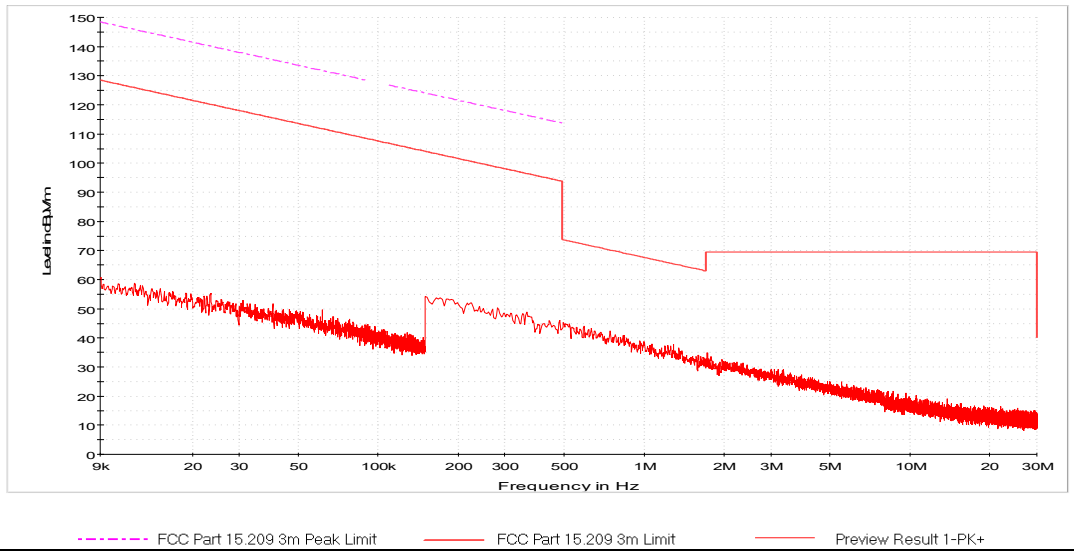
No.	Test	Graph Description
11	9kHz to 30MHz Restricted Bands	2402MHz Channel, Antenna X
12		2402MHz Channel, Antenna Y
13		2402MHz Channel, Antenna Z
14		2426MHz Channel, Antenna X
15		2426MHz Channel, Antenna Y
16		2426MHz Channel, Antenna Z
17		2480MHz Channel, Antenna X
18		2480MHz Channel, Antenna Y
19		2480MHz Channel, Antenna Z
20	30MHz to 1GHz Restricted and Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
21		2402MHz Channel, Antenna Vertical
22		2426MHz Channel, Antenna Horizontal
23		2426MHz Channel, Antenna Vertical
24		2480MHz Channel, Antenna Horizontal
25		2480MHz Channel, Antenna Vertical
26	1GHz to 3.6GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
27		2402MHz Channel, Antenna Vertical
28		2426MHz Channel, Antenna Horizontal
29		2426MHz Channel, Antenna Vertical
30		2480MHz Channel, Antenna Horizontal
31		2480MHz Channel, Antenna Vertical
32	3.6GHz to 6GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
33		2402MHz Channel, Antenna Vertical
34		2426MHz Channel, Antenna Horizontal
35		2426MHz Channel, Antenna Vertical
36		2480MHz Channel, Antenna Horizontal
37		2480MHz Channel, Antenna Vertical
38	1GHz to 6GHz Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
39		2402MHz Channel, Antenna Vertical
40		2426MHz Channel, Antenna Horizontal
41		2426MHz Channel, Antenna Vertical
42		2480MHz Channel, Antenna Horizontal
43		2480MHz Channel, Antenna Vertical
44	5.8GHz to 8.2GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
45		2402MHz Channel, Antenna Vertical
46		2426MHz Channel, Antenna Horizontal
47		2426MHz Channel, Antenna Vertical
48		2480MHz Channel, Antenna Horizontal
49		2480MHz Channel, Antenna Vertical
50	5.8GHz to 8.2GHz Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
51		2402MHz Channel, Antenna Vertical
52		2426MHz Channel, Antenna Horizontal
53		2426MHz Channel, Antenna Vertical
54		2480MHz Channel, Antenna Horizontal
55		2480MHz Channel, Antenna Vertical

No.	Test	Graph Description
56	8.2GHz to 12.4GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
57		2402MHz Channel, Antenna Vertical
58		2426MHz Channel, Antenna Horizontal
59		2426MHz Channel, Antenna Vertical
60		2480MHz Channel, Antenna Horizontal
61		2480MHz Channel, Antenna Vertical
62	8.2GHz to 12.4GHz Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
63		2402MHz Channel, Antenna Vertical
64		2426MHz Channel, Antenna Horizontal
65		2426MHz Channel, Antenna Vertical
66		2480MHz Channel, Antenna Horizontal
67		2480MHz Channel, Antenna Vertical
68	12.4GHz to 18GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
69		2402MHz Channel, Antenna Vertical
70		2426MHz Channel, Antenna Horizontal
71		2426MHz Channel, Antenna Vertical
72		2480MHz Channel, Antenna Horizontal
73		2480MHz Channel, Antenna Vertical
74	12.4GHz to 18GHz Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
75		2402MHz Channel, Antenna Vertical
76		2426MHz Channel, Antenna Horizontal
77		2426MHz Channel, Antenna Vertical
78		2480MHz Channel, Antenna Horizontal
79		2480MHz Channel, Antenna Vertical
80	18GHz to 26.5GHz Restricted Bands	2402MHz Channel, Antenna Horizontal
81		2402MHz Channel, Antenna Vertical
82		2426MHz Channel, Antenna Horizontal
83		2426MHz Channel, Antenna Vertical
84		2480MHz Channel, Antenna Horizontal
85		2480MHz Channel, Antenna Vertical
86	18GHz to 26.5GHz Non-Restricted Bands	2402MHz Channel, Antenna Horizontal
87		2402MHz Channel, Antenna Vertical
88		2426MHz Channel, Antenna Horizontal
89		2426MHz Channel, Antenna Vertical
90		2480MHz Channel, Antenna Horizontal
91		2480MHz Channel, Antenna Vertical

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel - 9KHz to 30MHz
X Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

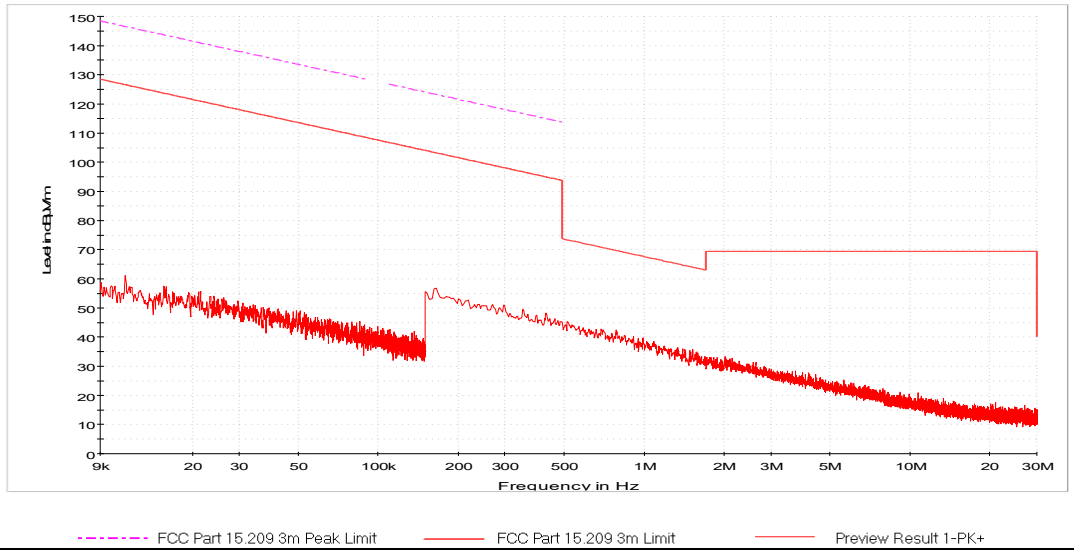


Graph 11

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel - 9KHz to 30MHz
Y Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

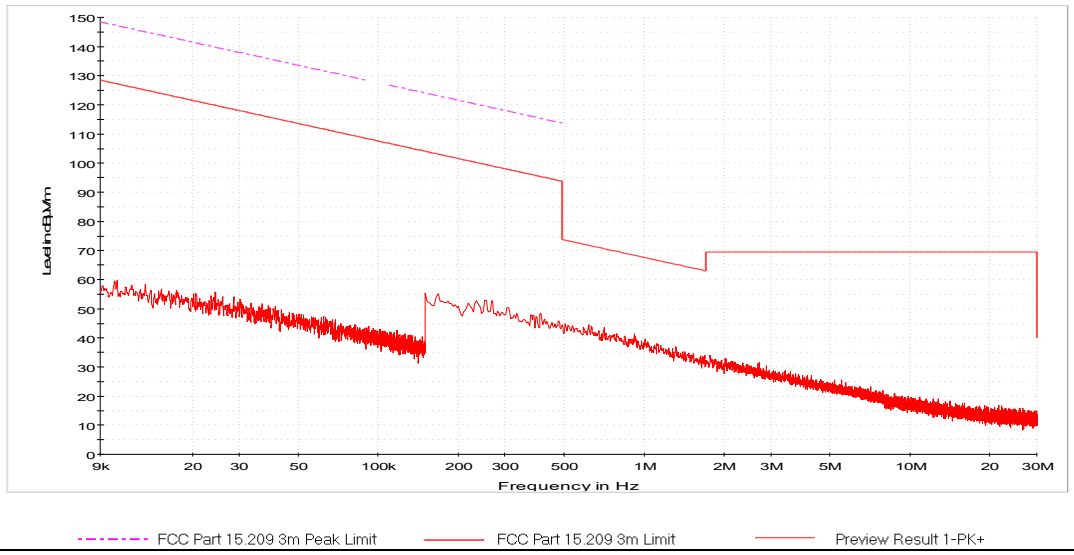


Graph 12

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel - 9KHz to 30MHz
Z Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

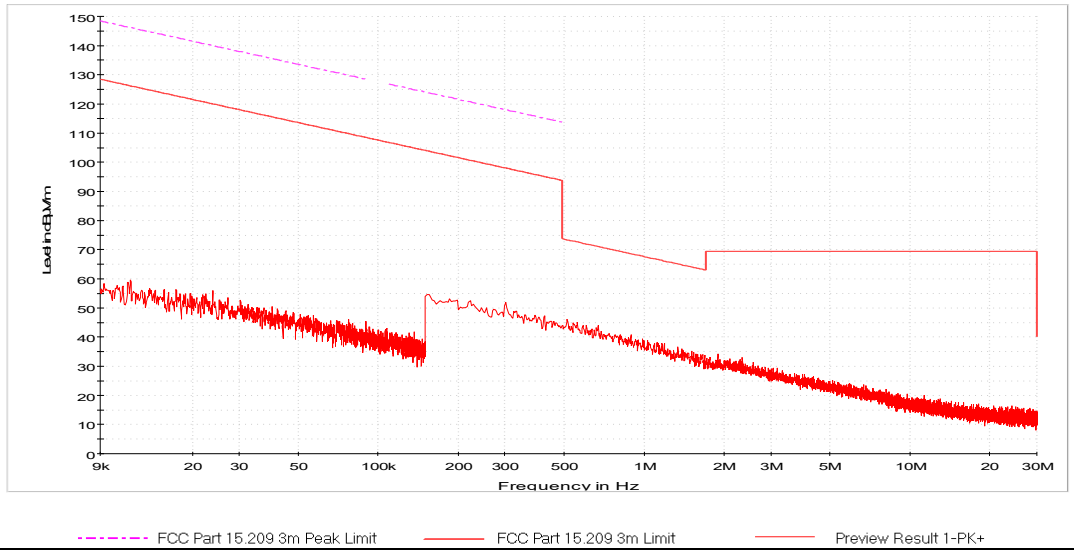


Graph 13

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel - 9KHz to 30MHz
X Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

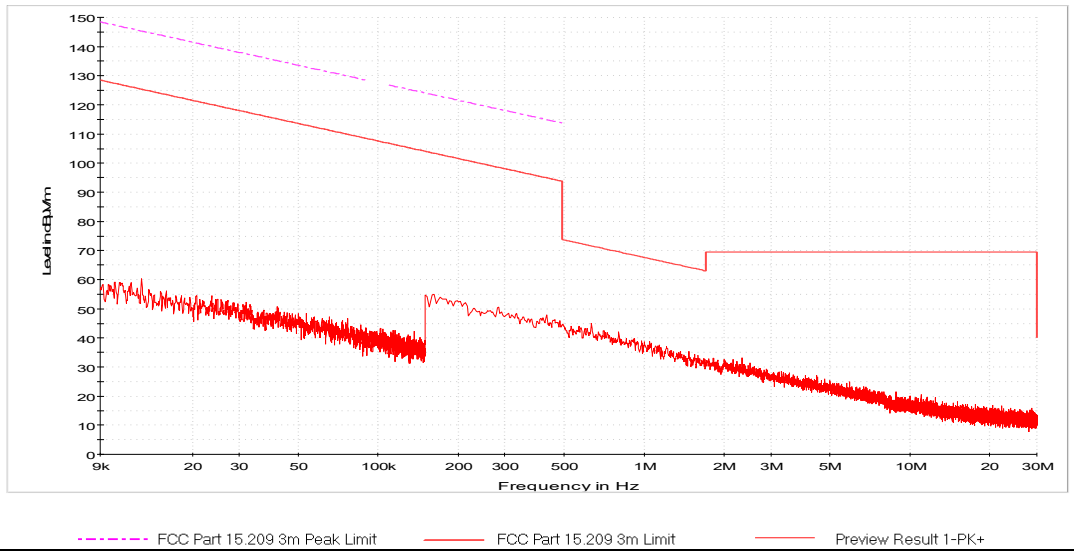


Graph 14

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel - 9KHz to 30MHz
Y Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

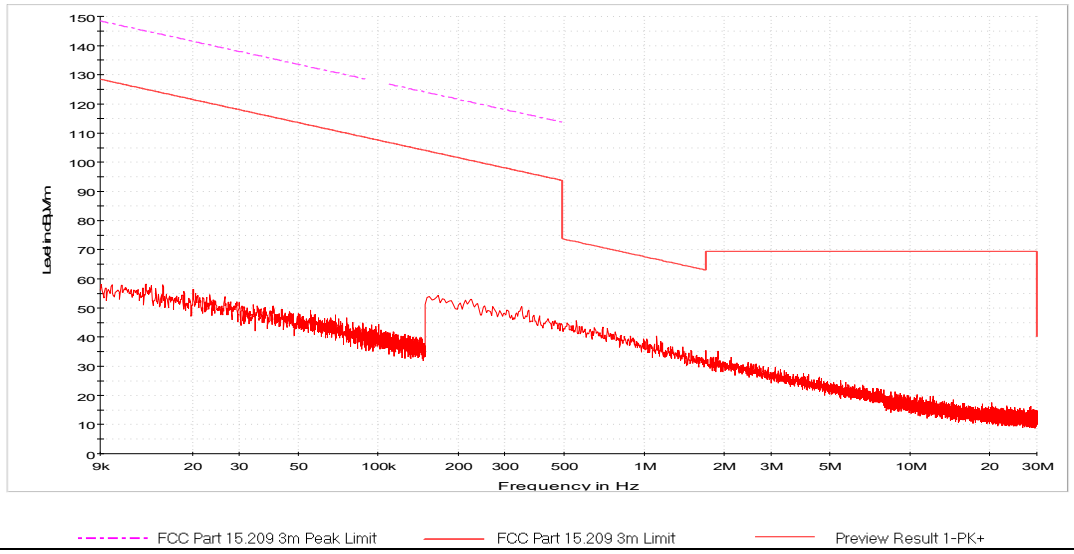


Graph 15

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel - 9KHz to 30MHz
Z Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

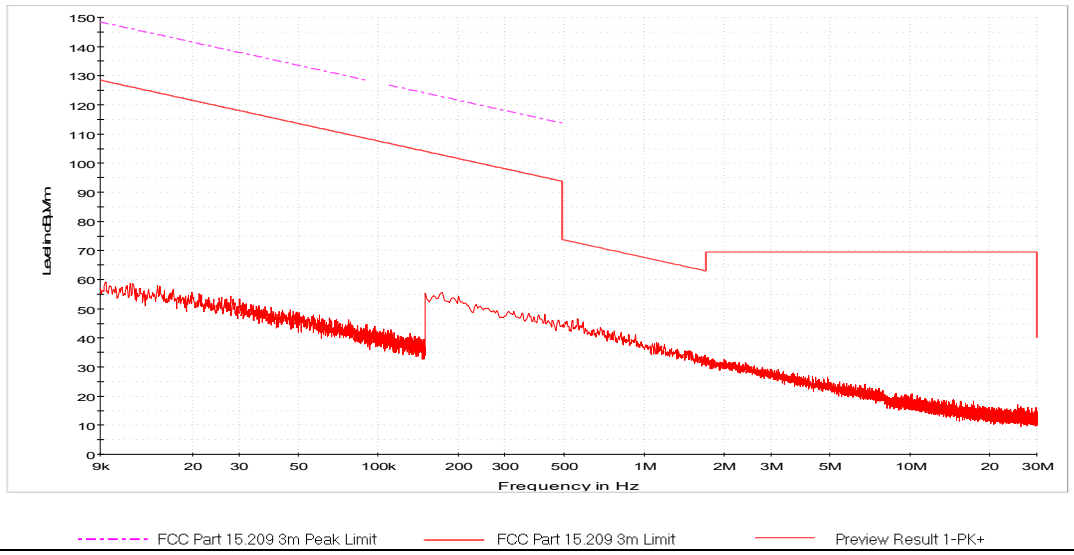


Graph 16

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel - 9KHz to 30MHz
X Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

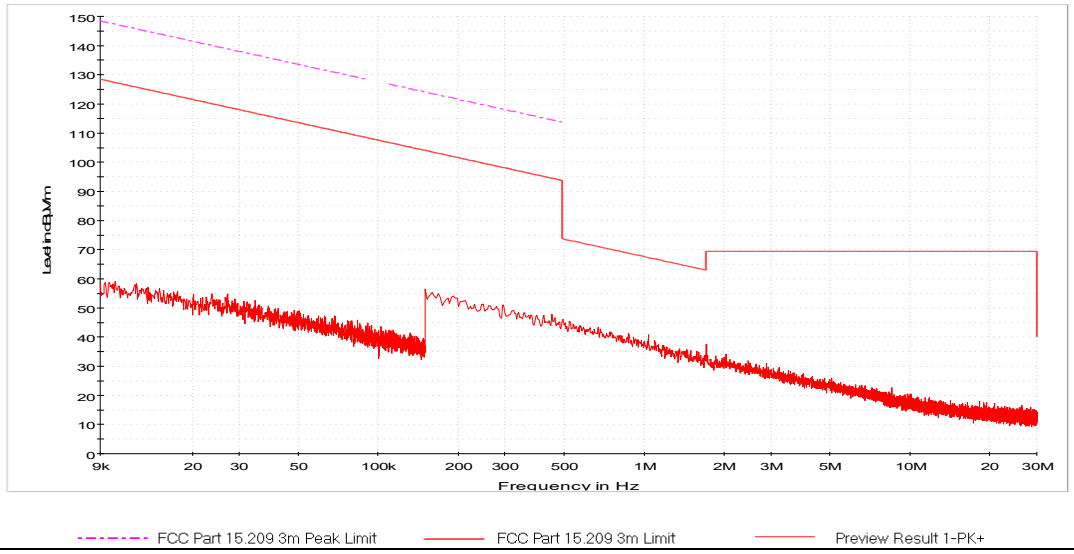


Graph 17

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel - 9KHz to 30MHz
Y Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

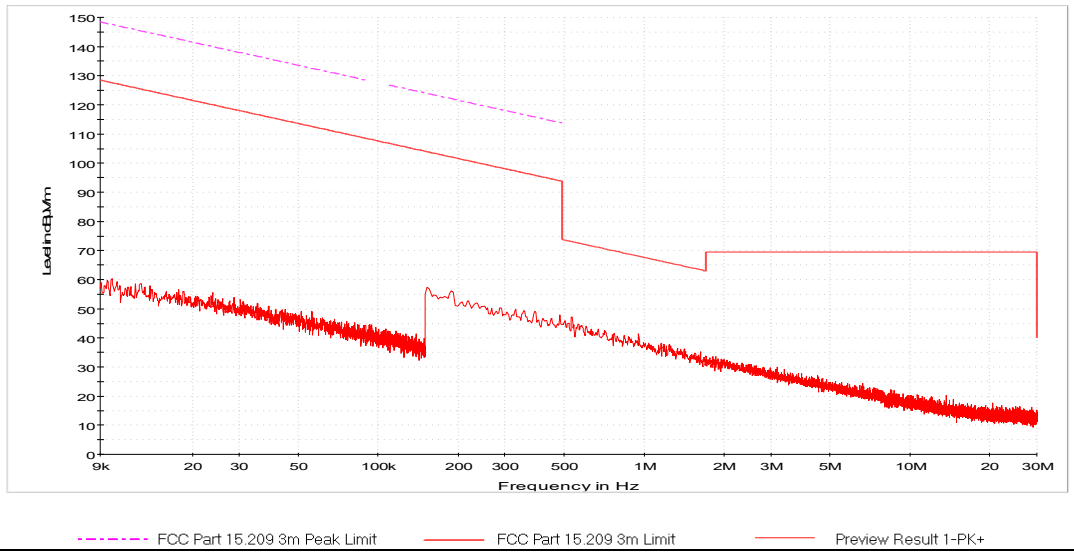


Graph 18

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel - 9KHz to 30MHz
Z Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

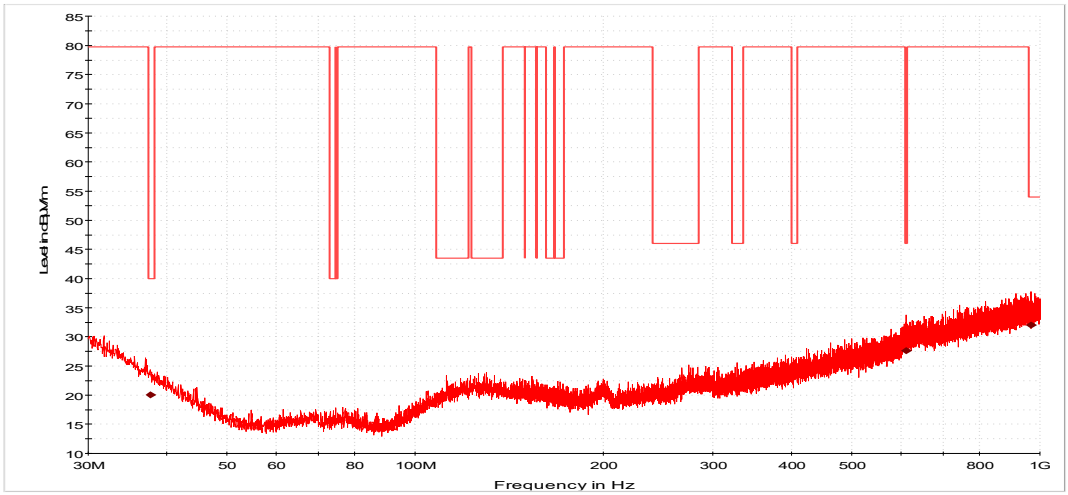


Graph 19

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 30MHz to 1GHz
Horizontal Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

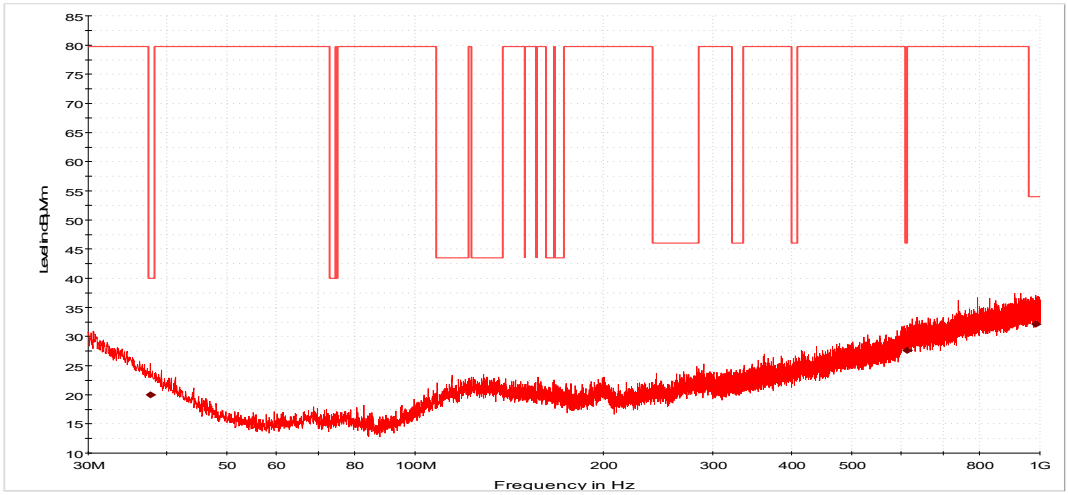


Graph 20

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 30MHz to 1GHz
Vertical Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

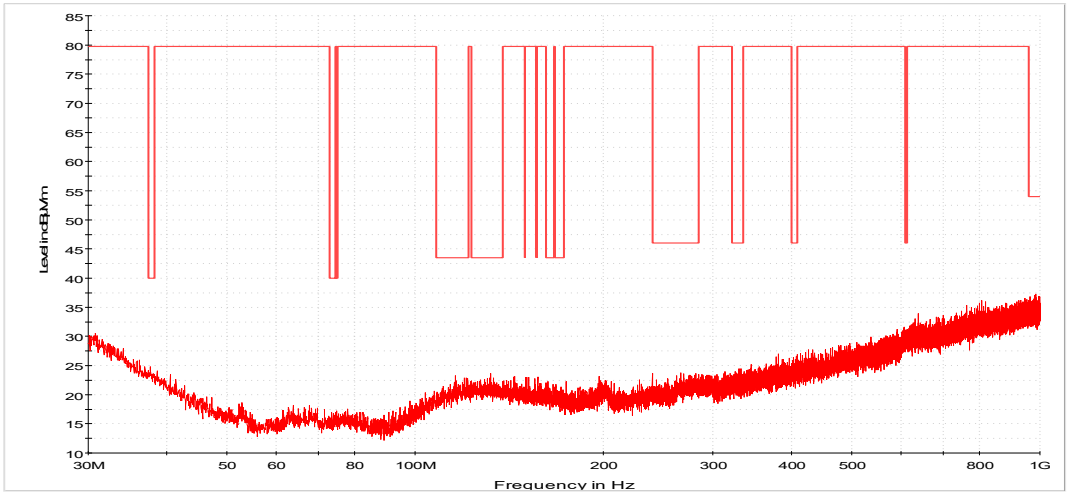


Graph 21

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 30MHz to 1GHz
Horizontal Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

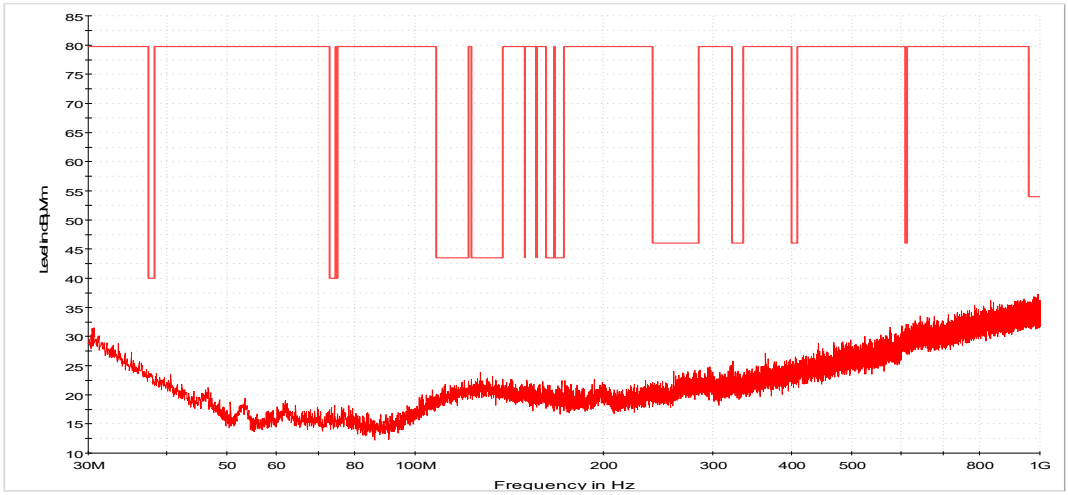


Graph 22

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 30MHz to 1GHz
Vertical Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

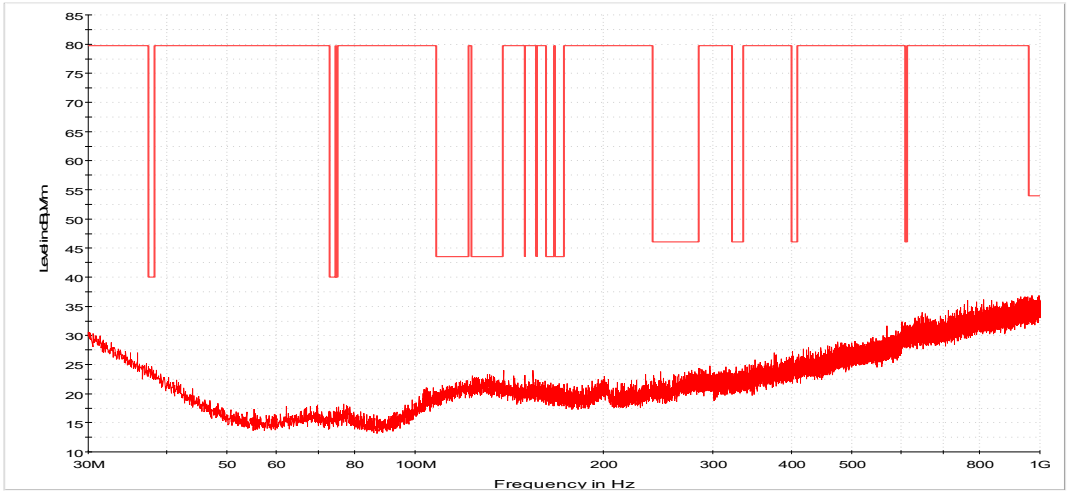


Graph 23

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 30MHz to 1GHz
Horizontal Antenna Orientation

Job Number: E2206-1550-4
Test Engineer AZ

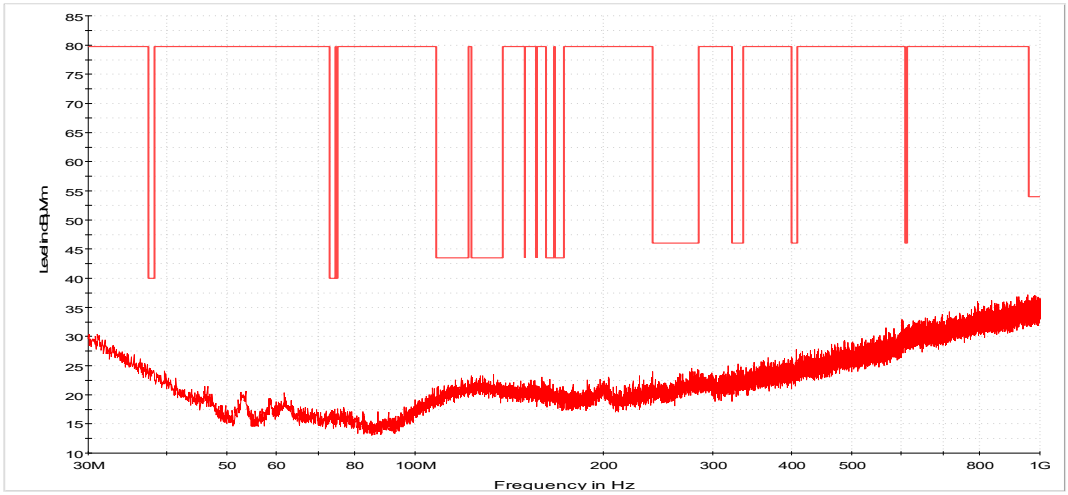


Graph 24

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted and Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 30MHz to 1GHz
Vertical Antenna Orientation

Job Number: E2206-1550-4
Test Engineer: AZ

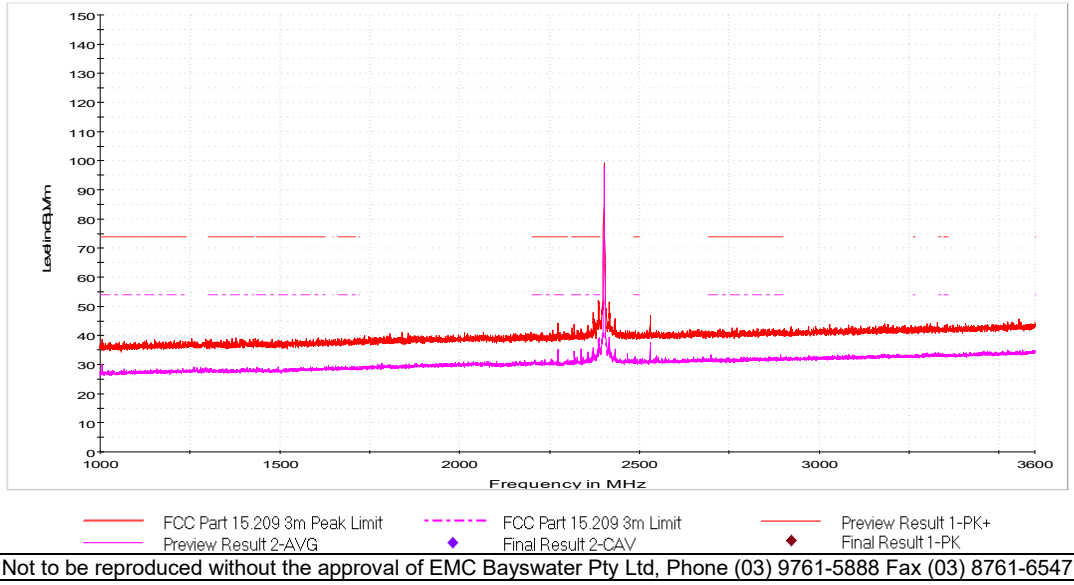


Graph 25

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 1GHz to 3.6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

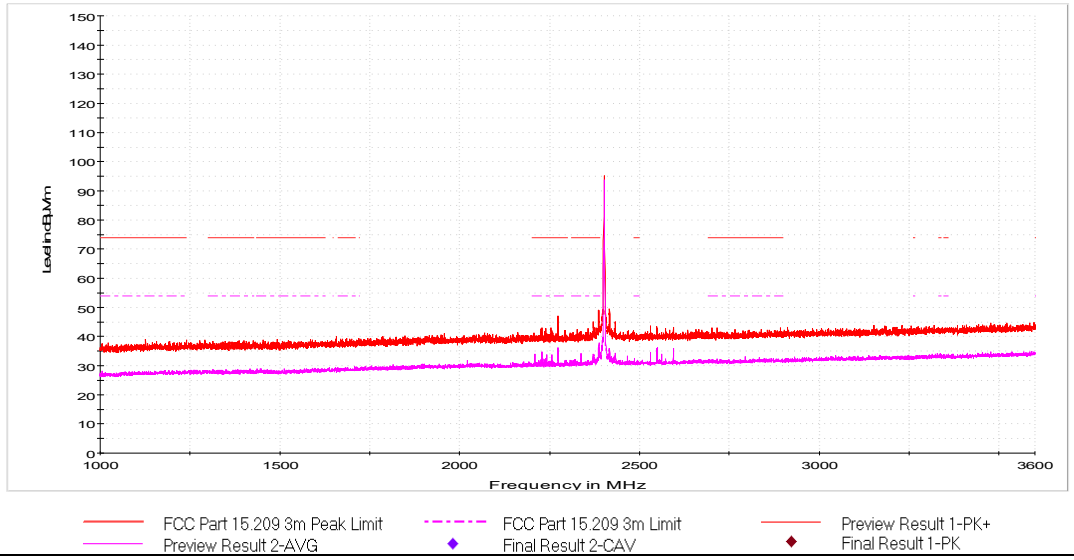


Graph 26

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 1GHz to 3.6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

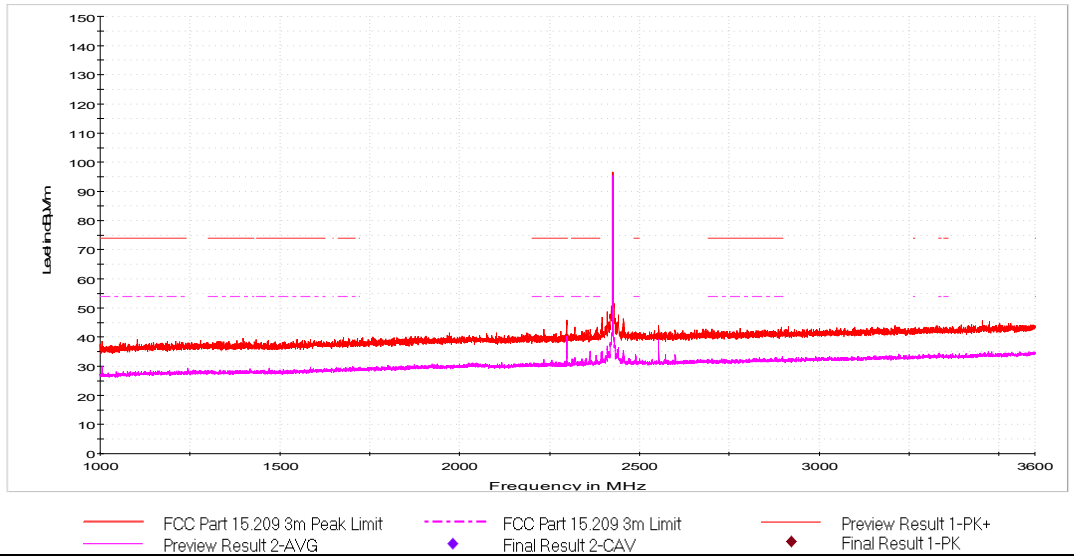


Graph 27

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 1GHz to 3.6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

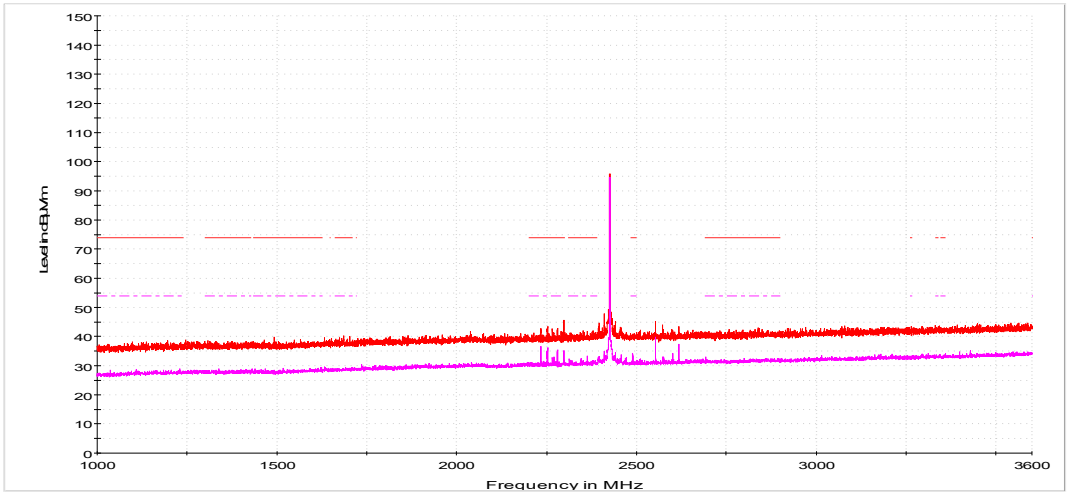


Graph 28

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 1GHz to 3.6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

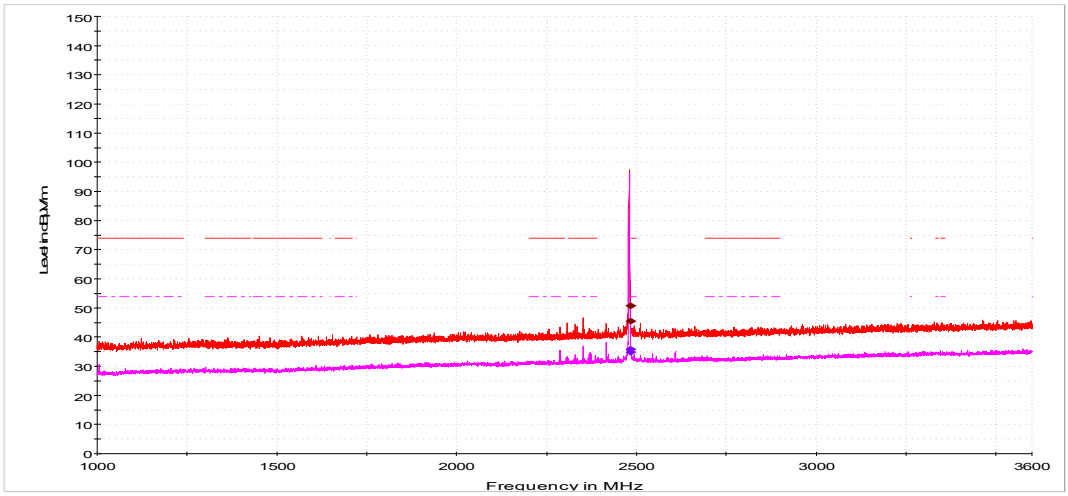


Graph 29

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 1GHz to 3.6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

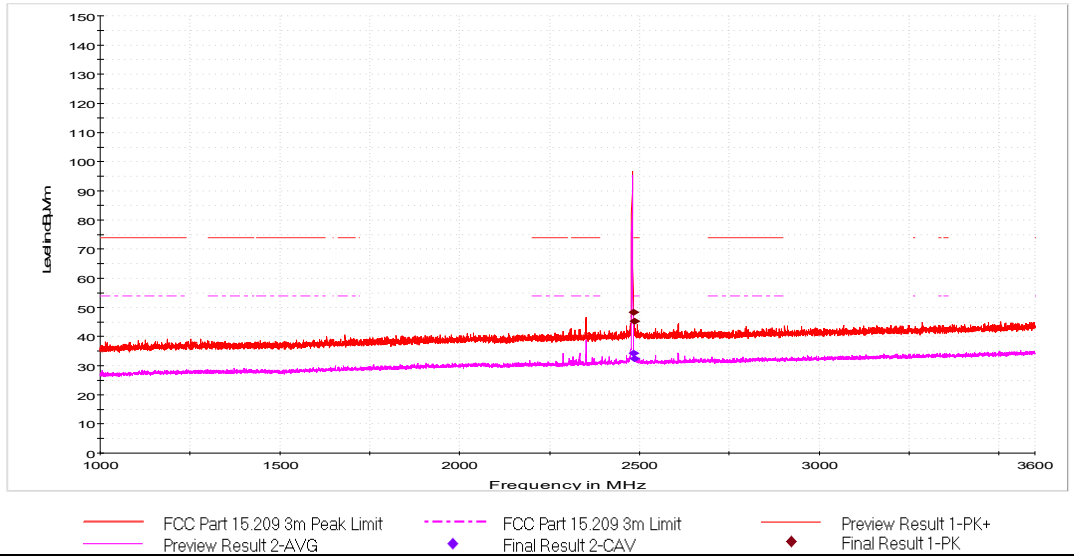


Graph 30

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 1GHz to 3.6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

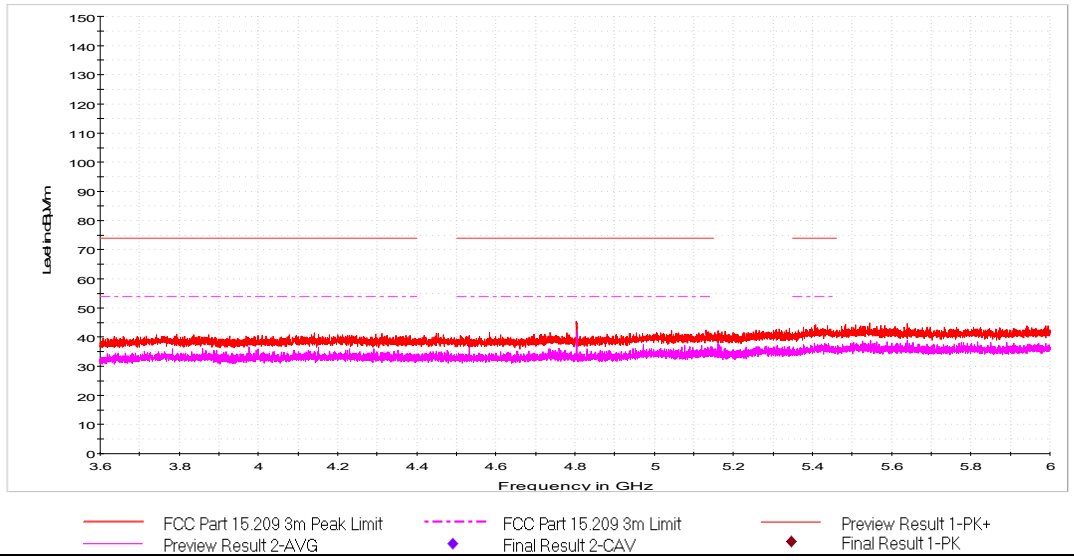


Graph 31

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 3.6GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

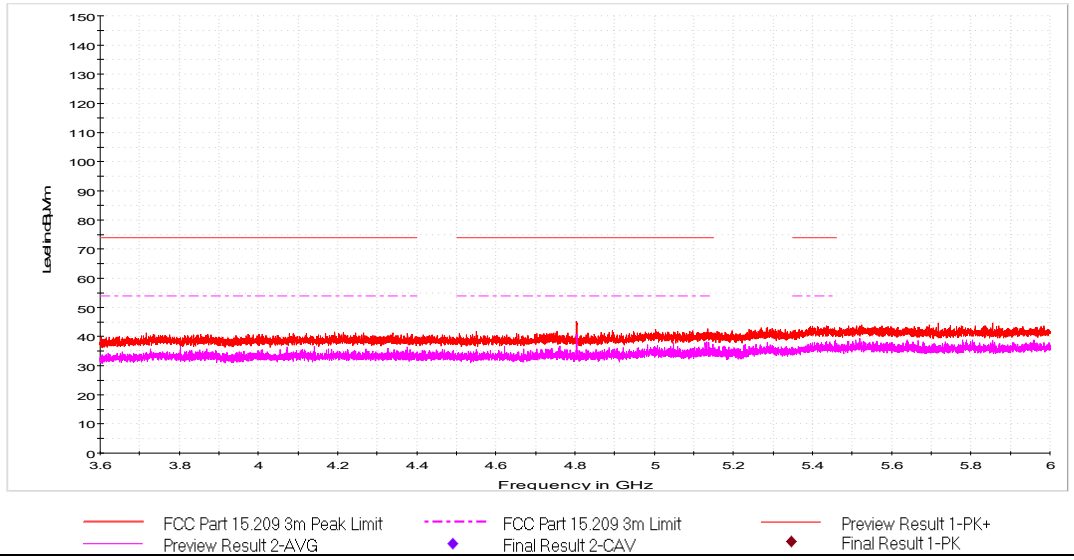


Graph 32

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 3.6GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

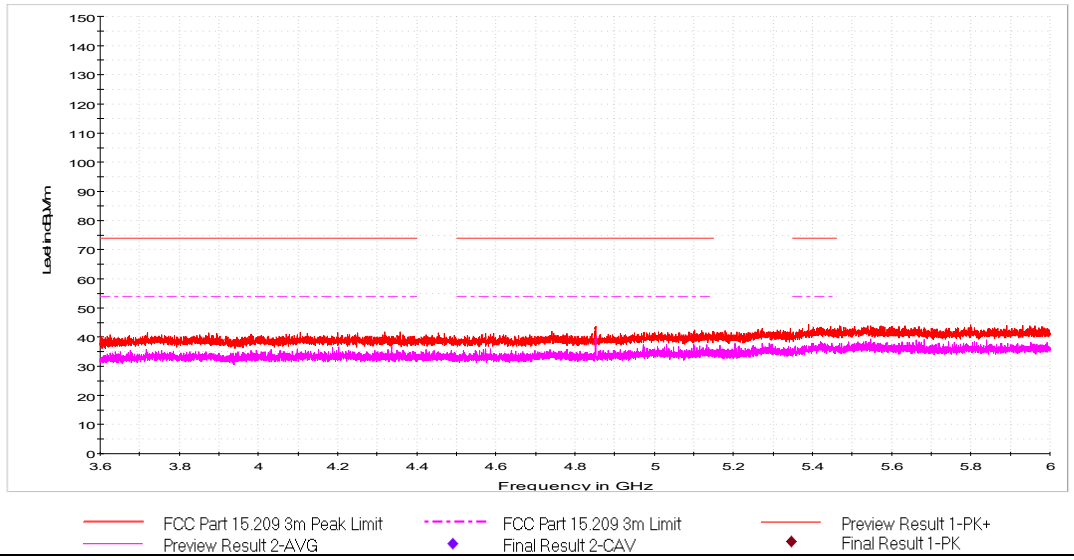


Graph 33

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 3.6GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

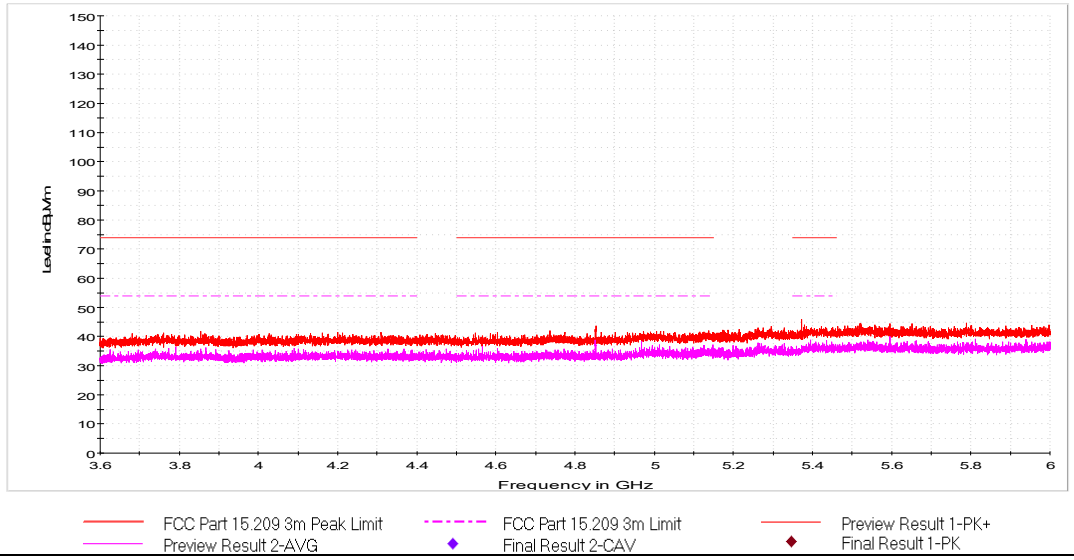


Graph 34

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 3.6GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

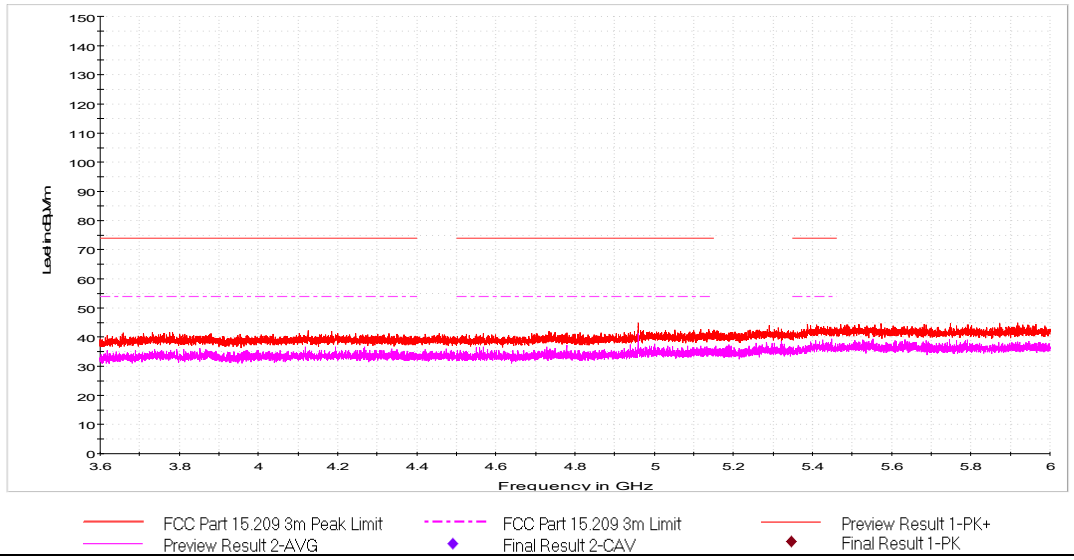


Graph 35

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 3.6GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

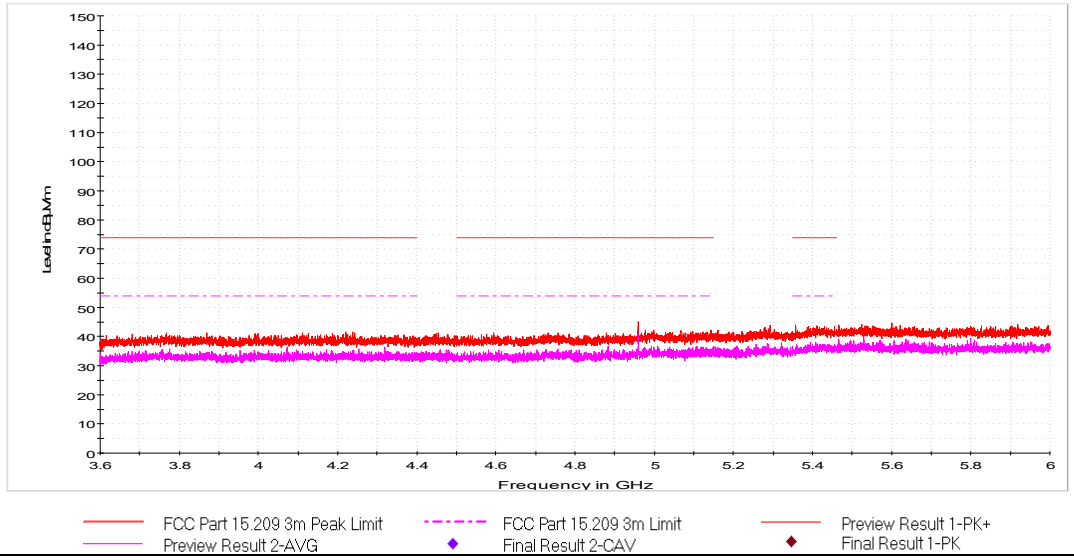


Graph 36

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 3.6GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

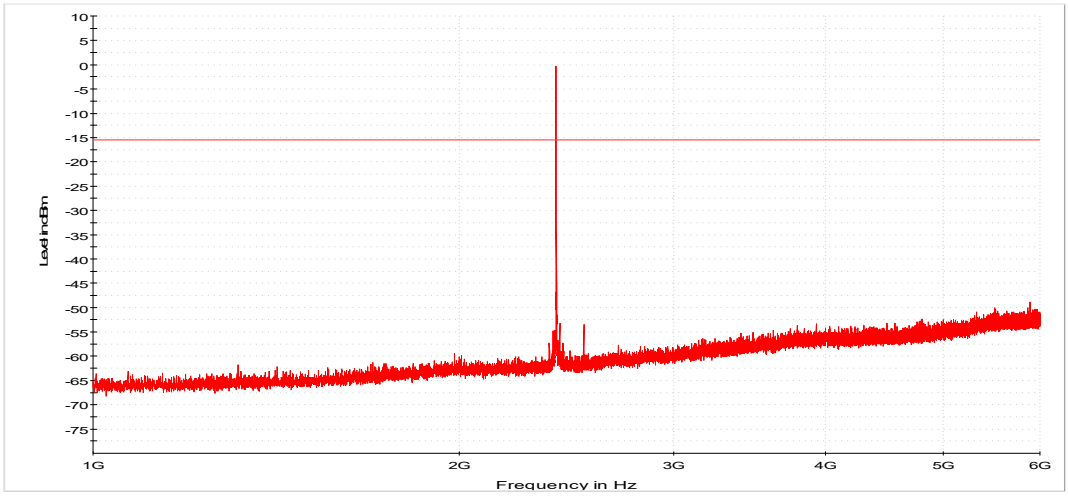


Graph 37

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 1GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

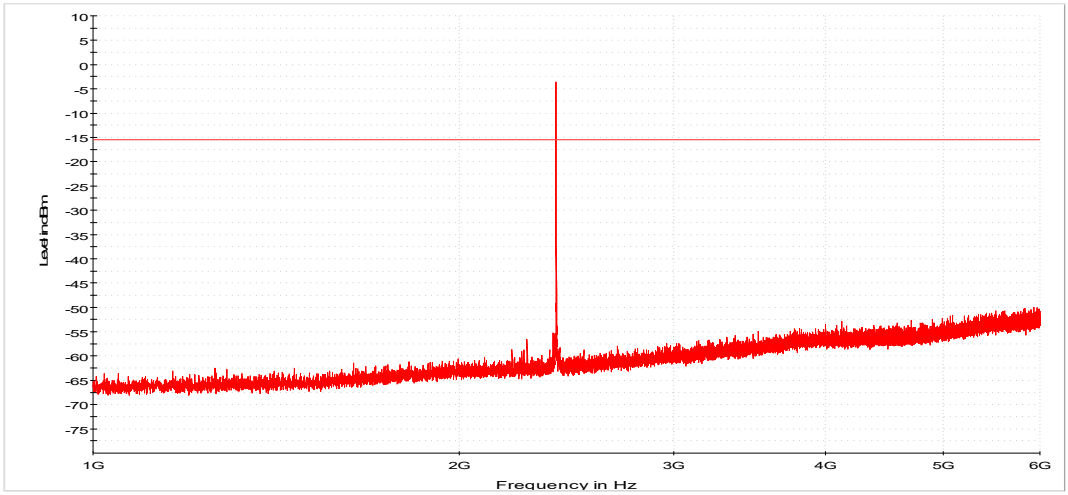


Graph 38

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 1GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



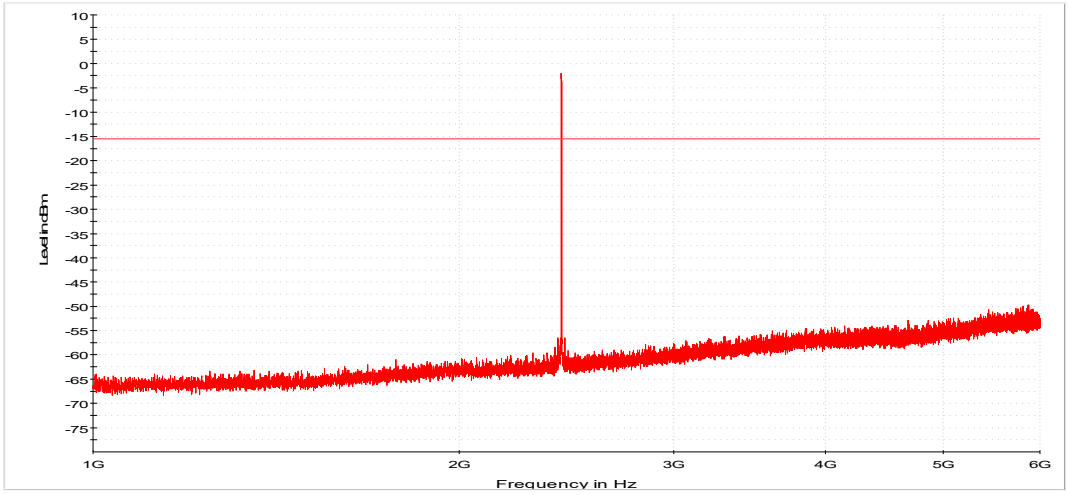
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 39

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 1GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



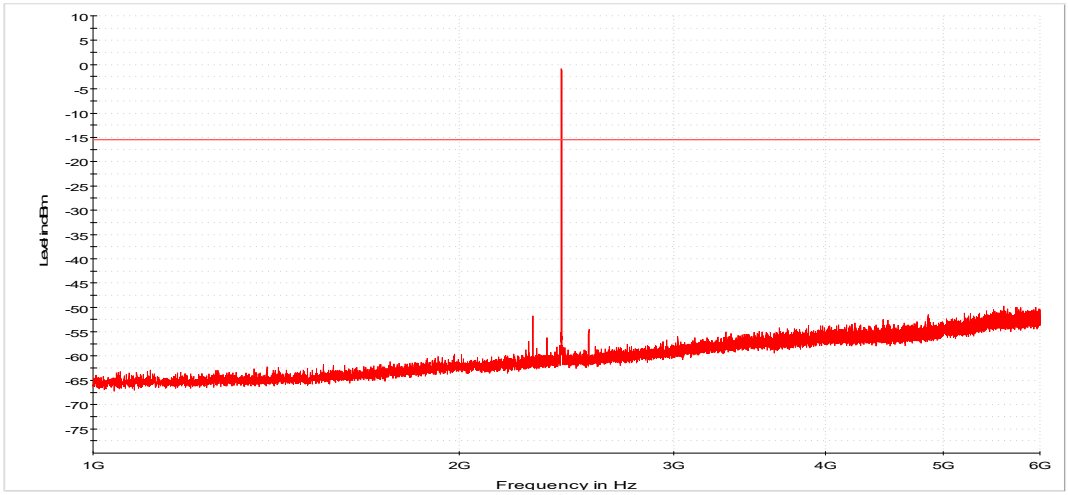
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 40

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 1GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



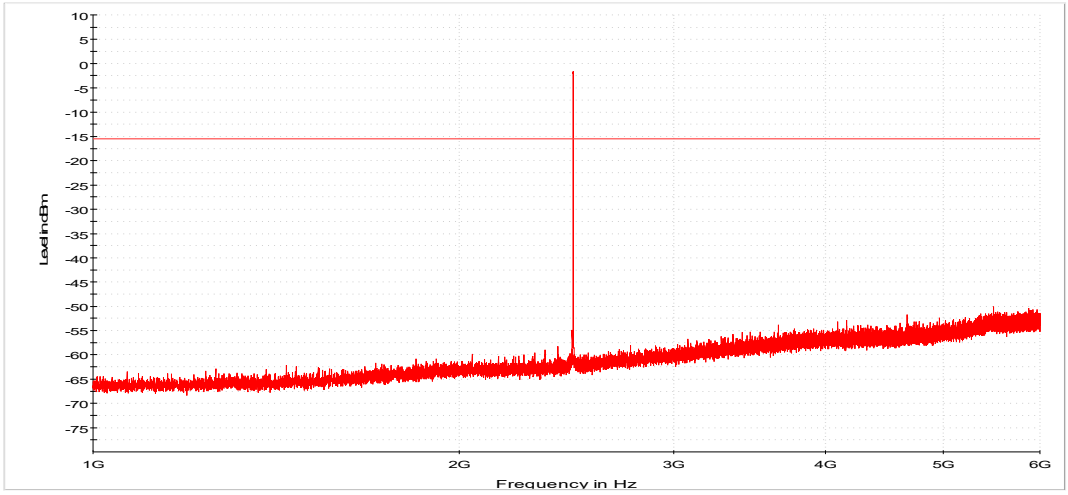
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 41

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 1GHz to 6GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



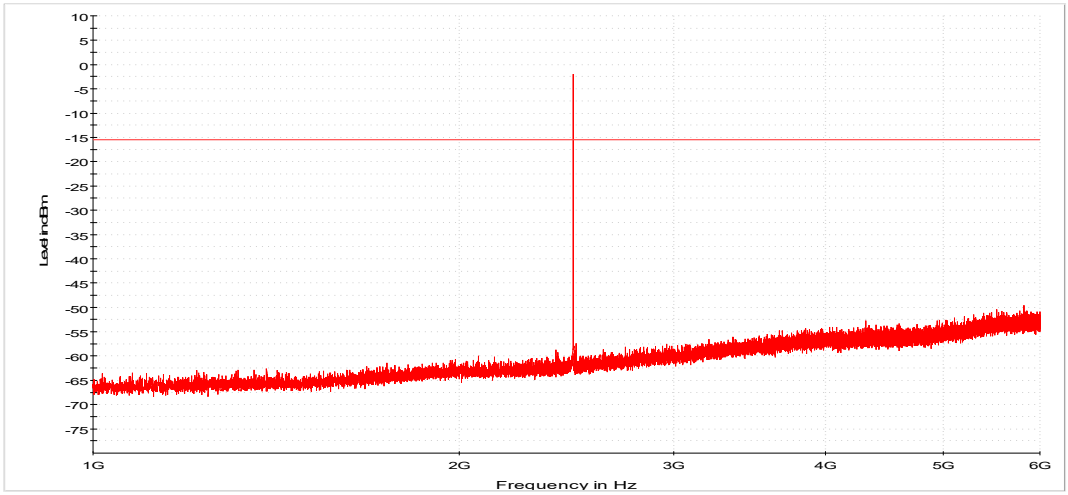
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 42

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 1GHz to 6GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

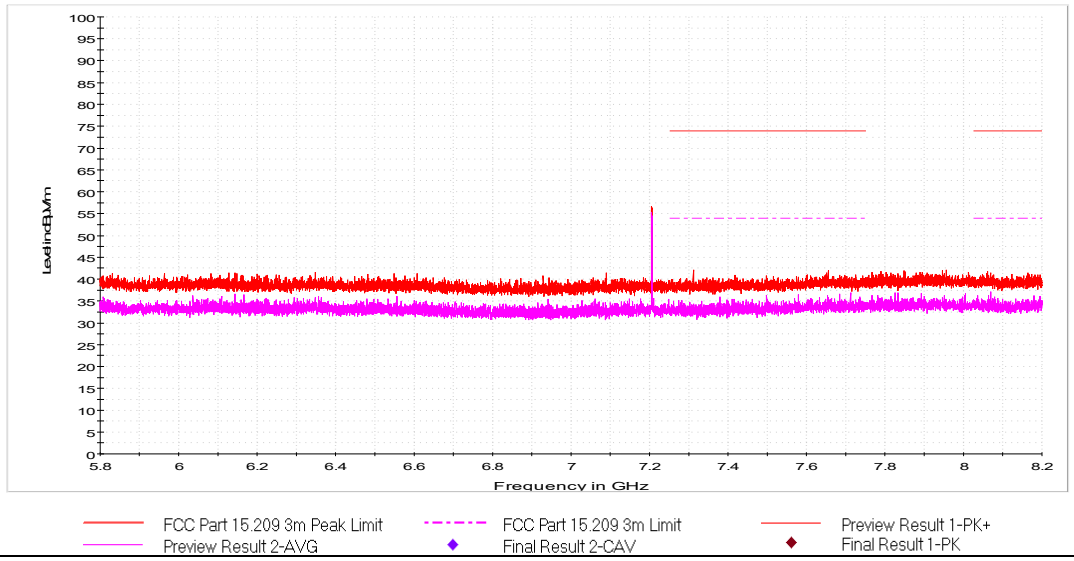


Graph 43

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

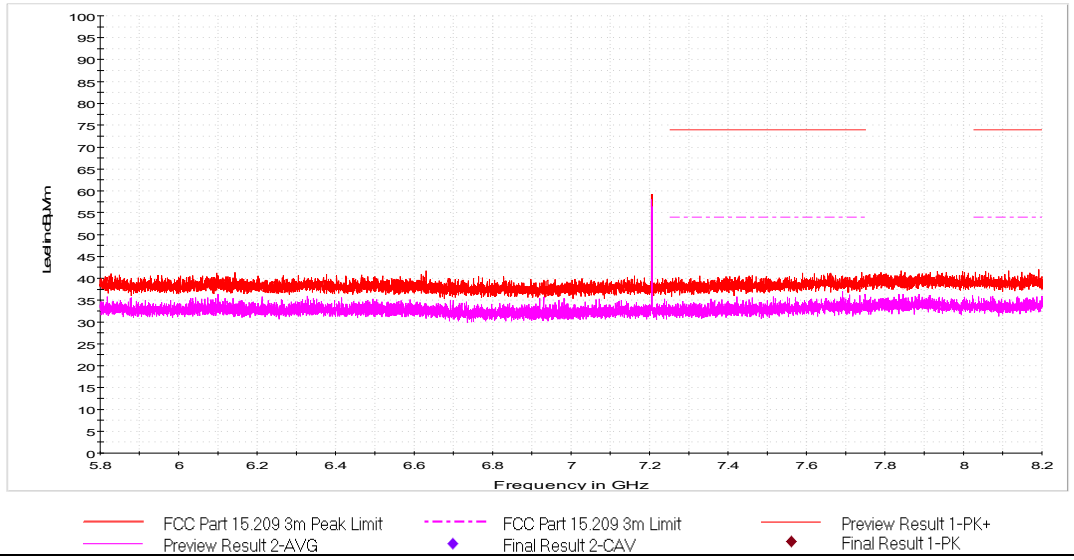


Graph 44

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

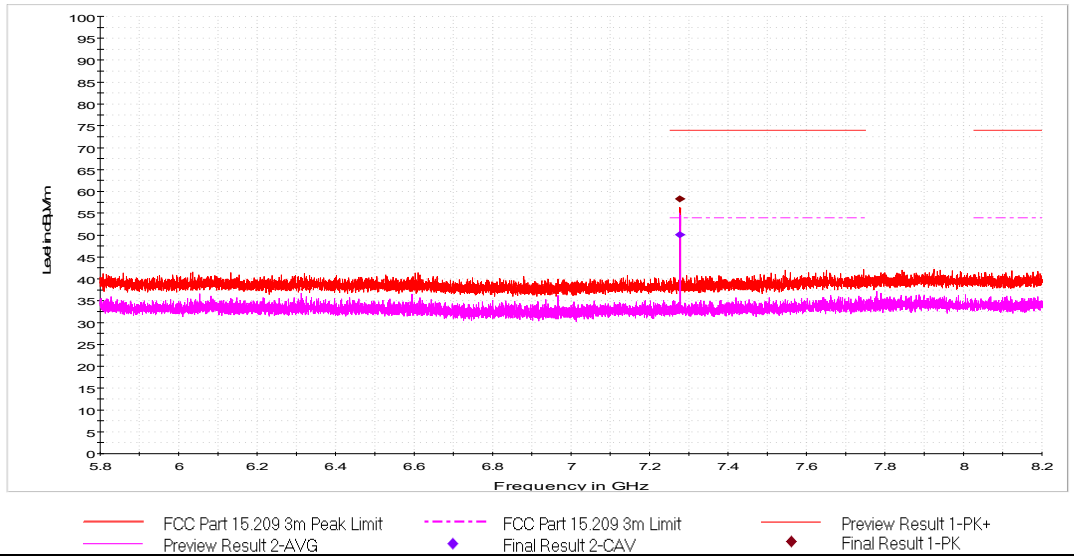


Graph 45

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

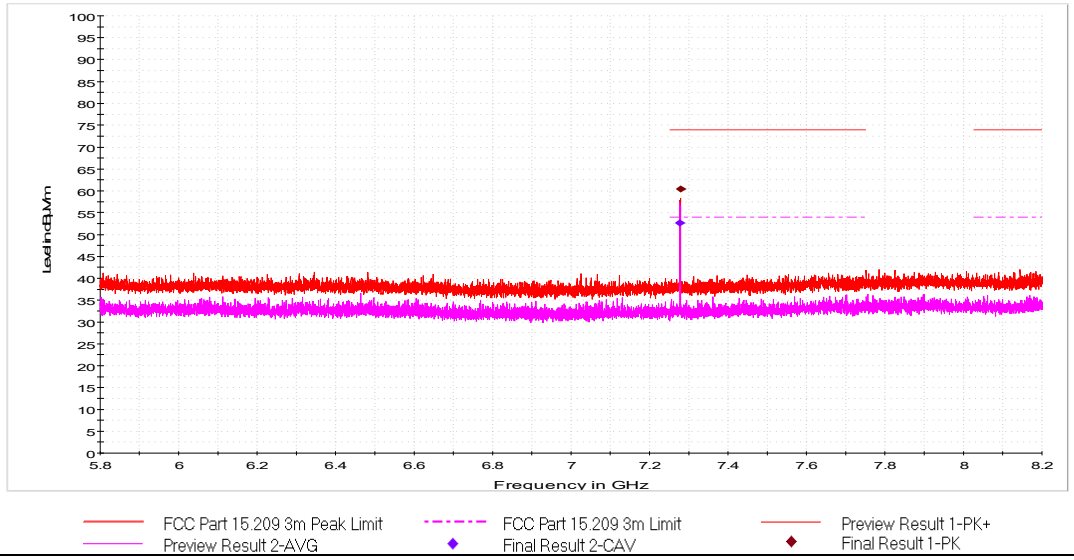


Graph 46

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

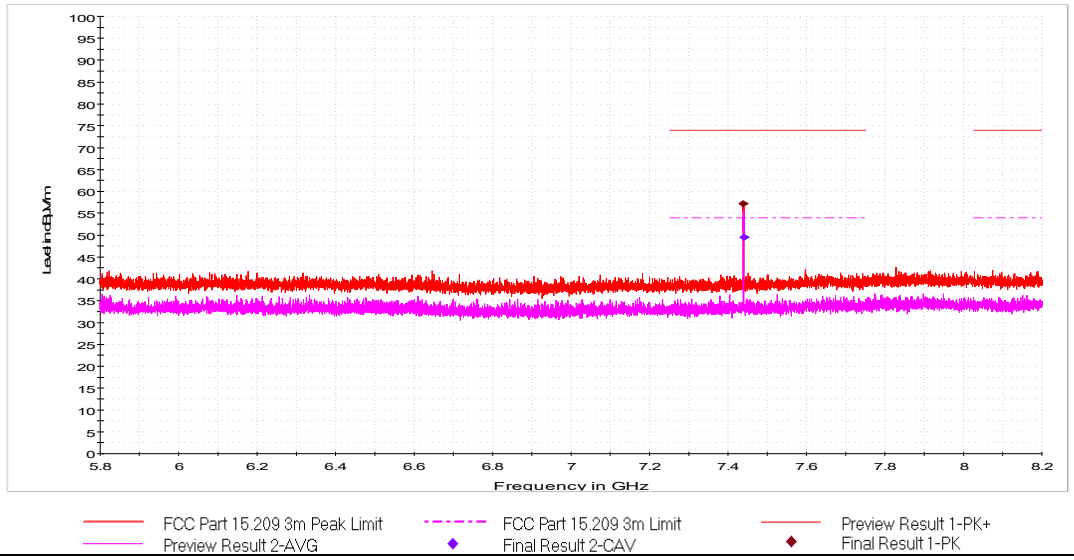


Graph 47

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

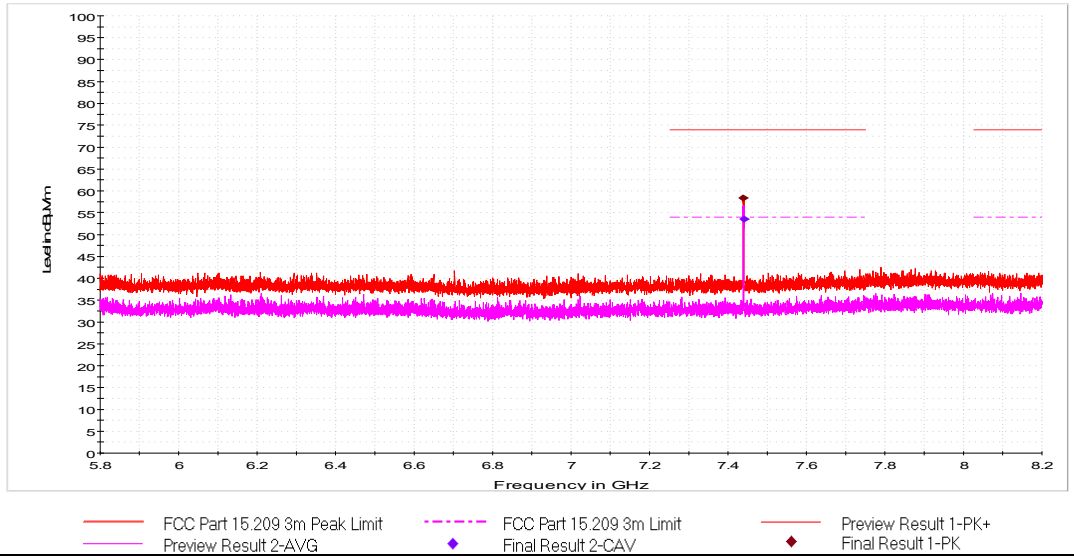


Graph 48

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

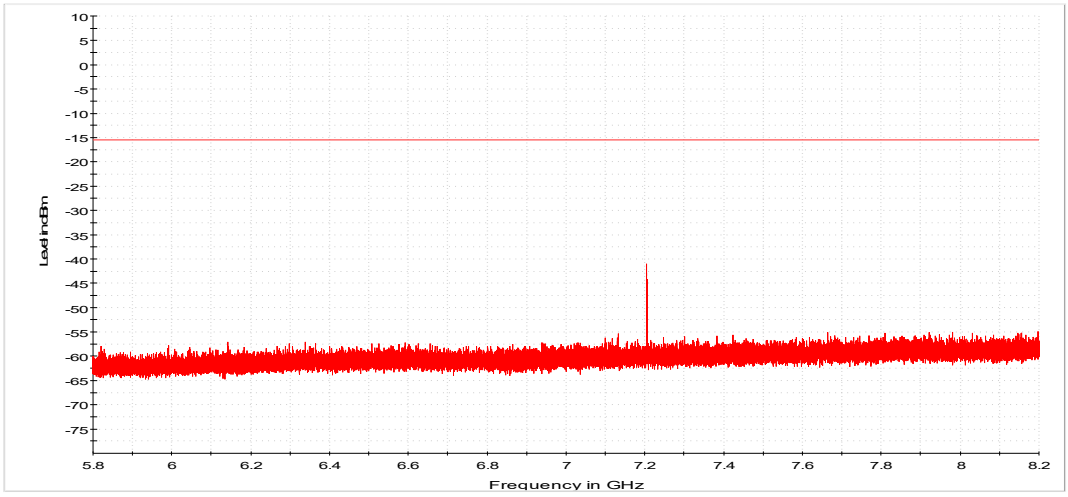


Graph 49

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

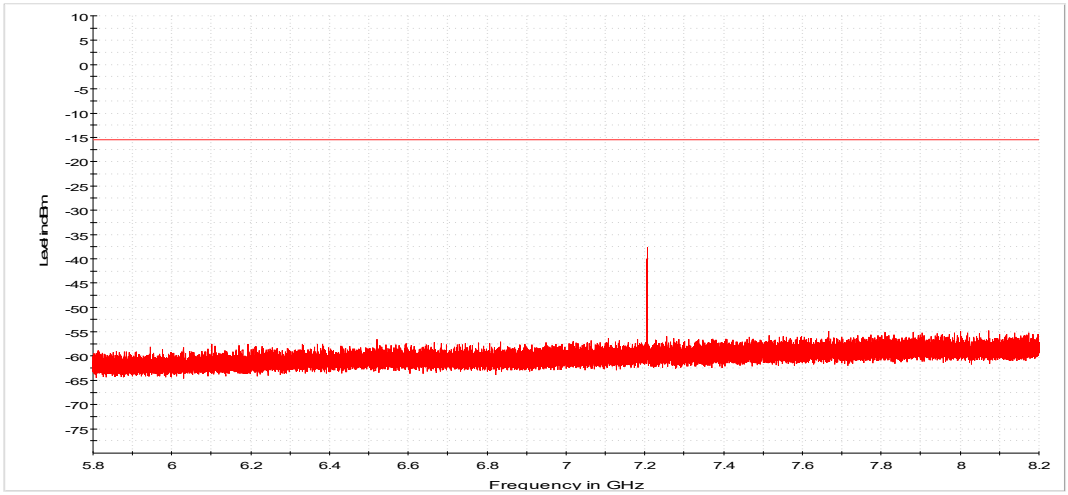


Graph 50

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

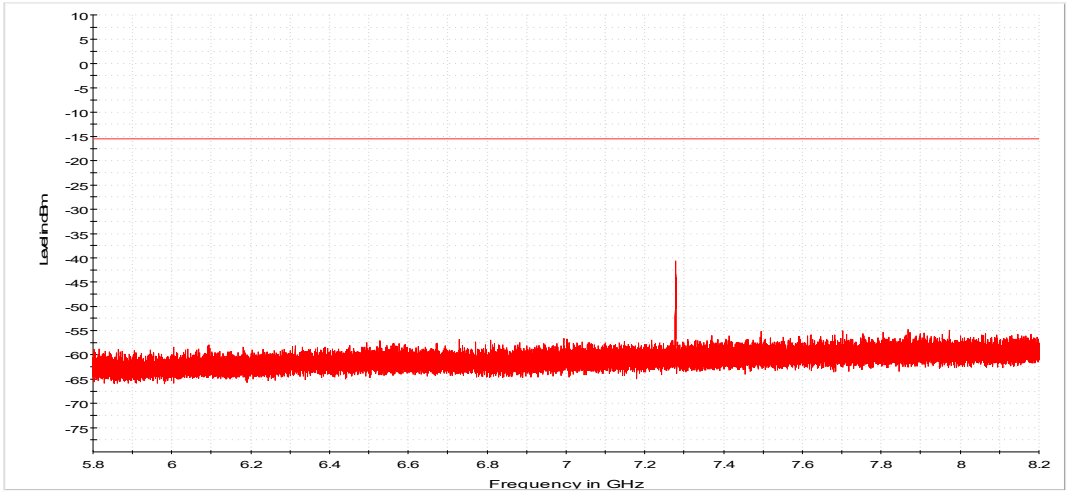


Graph 51

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

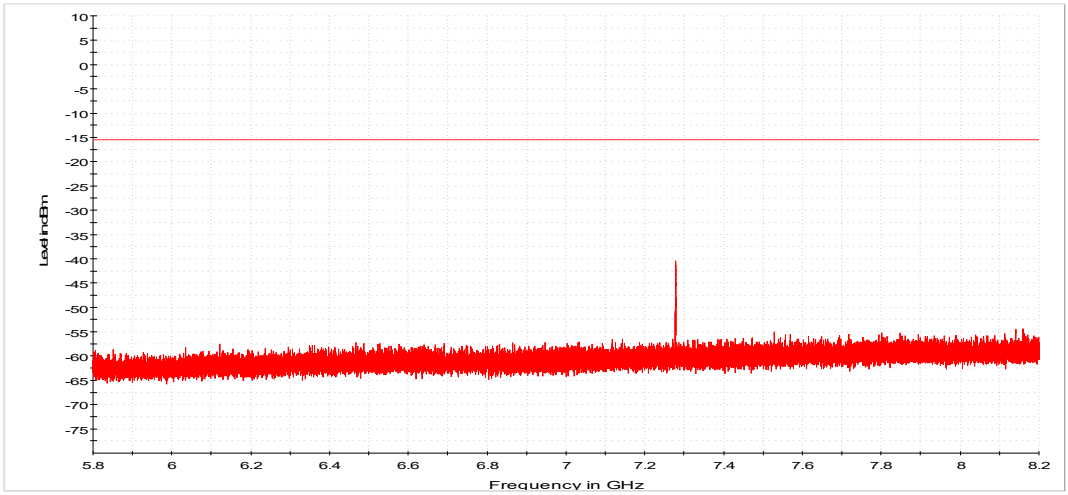


Graph 52

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

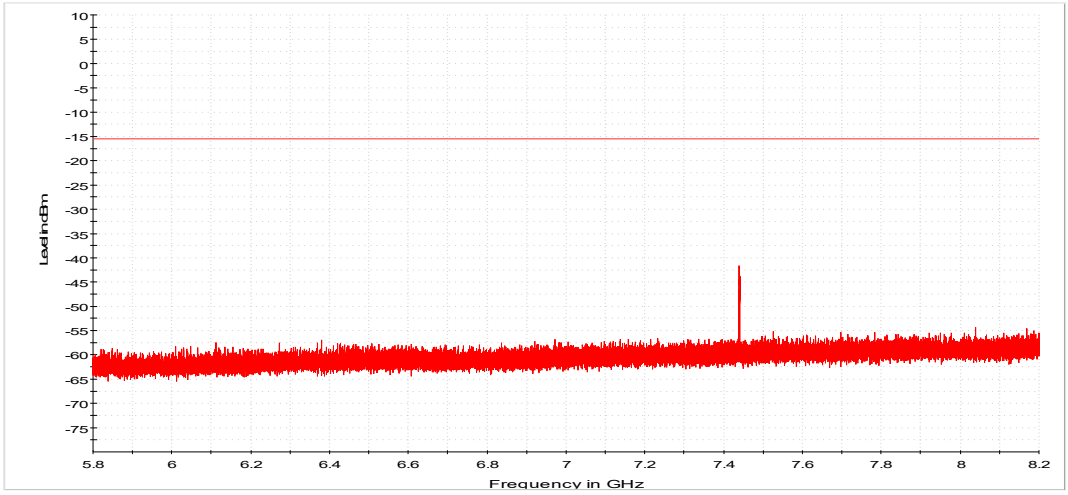


Graph 53

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 5.8GHz to 8.2GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

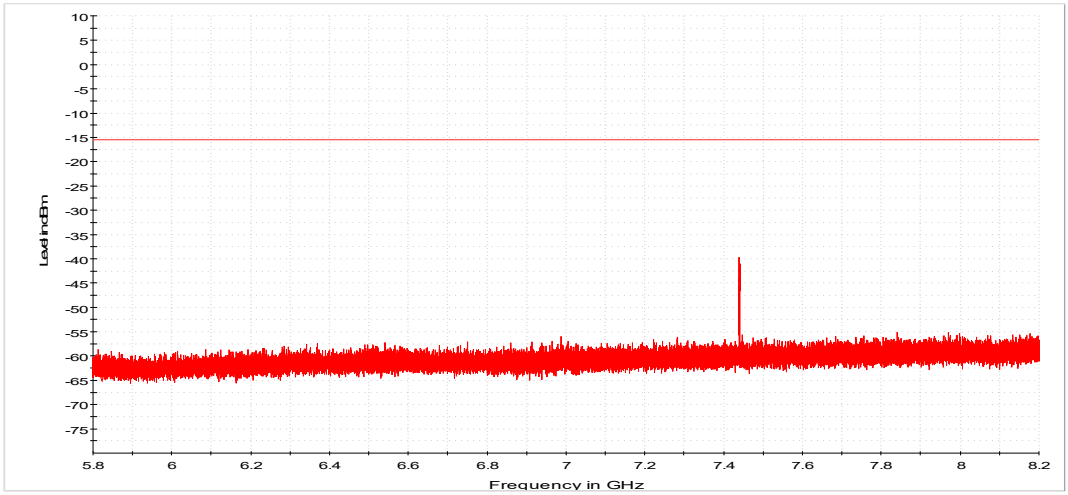


Graph 54

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 5.8GHz to 8.2GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

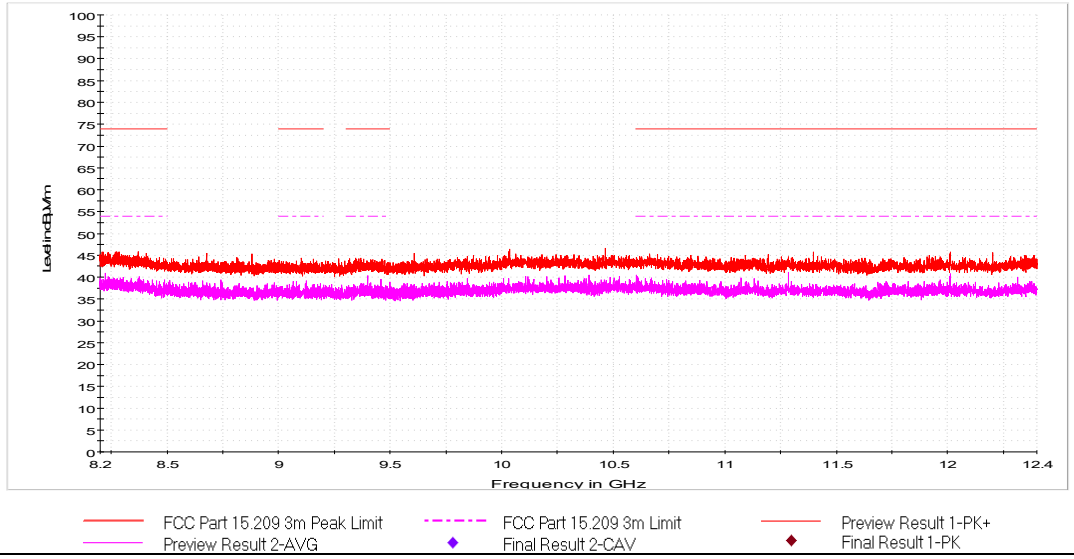


Graph 55

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

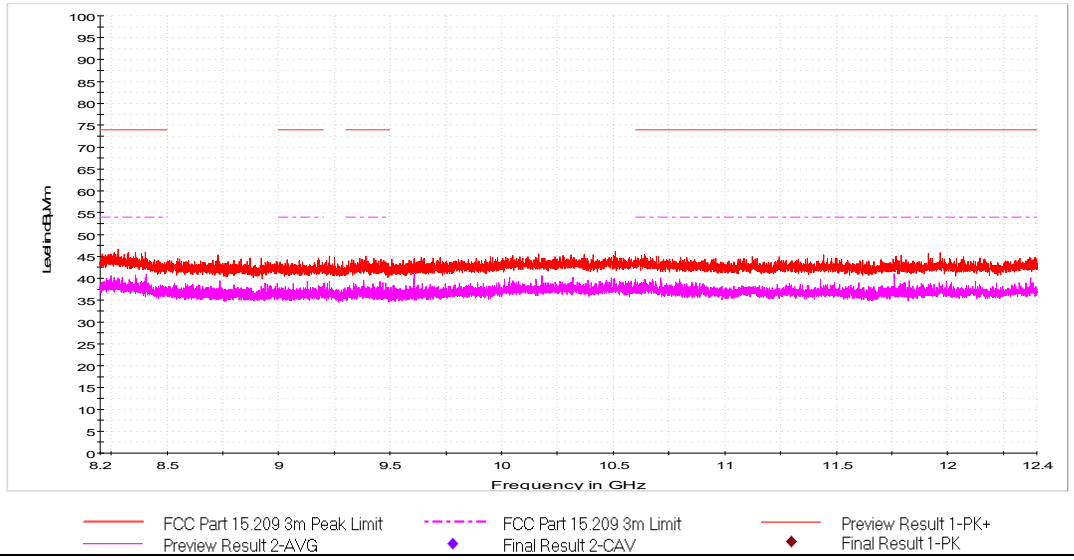


Graph 56

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

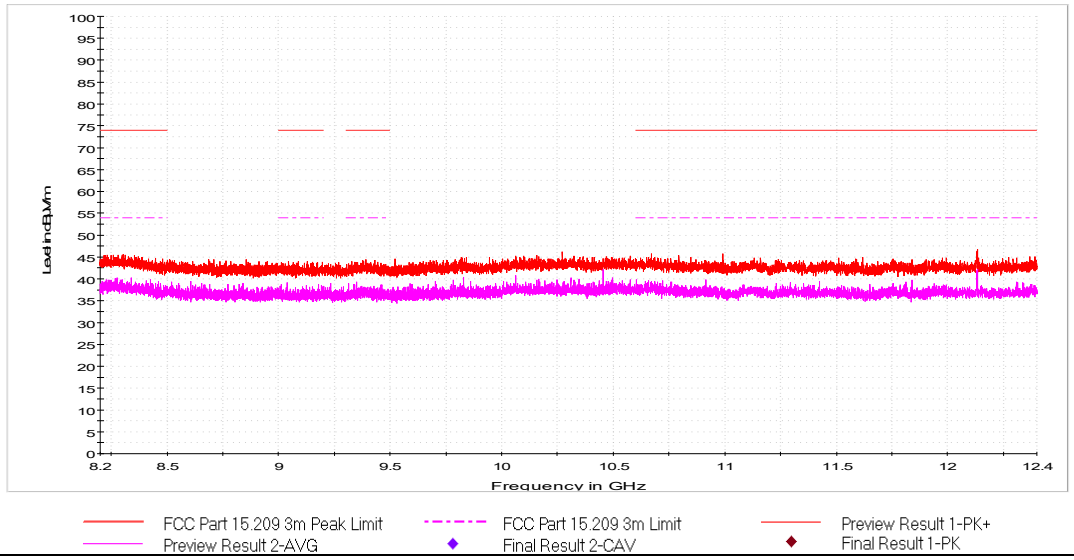


Graph 57

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

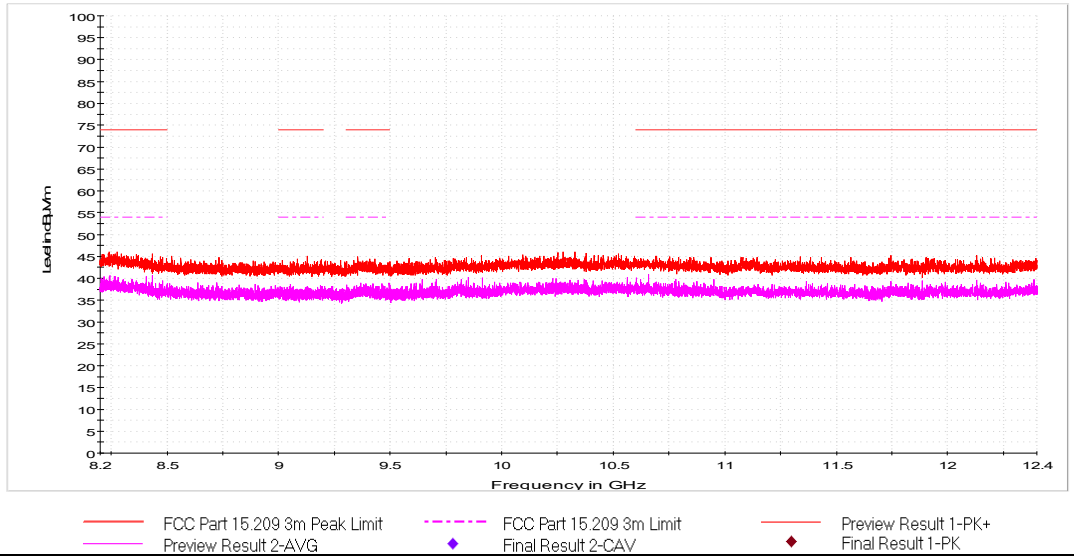


Graph 58

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

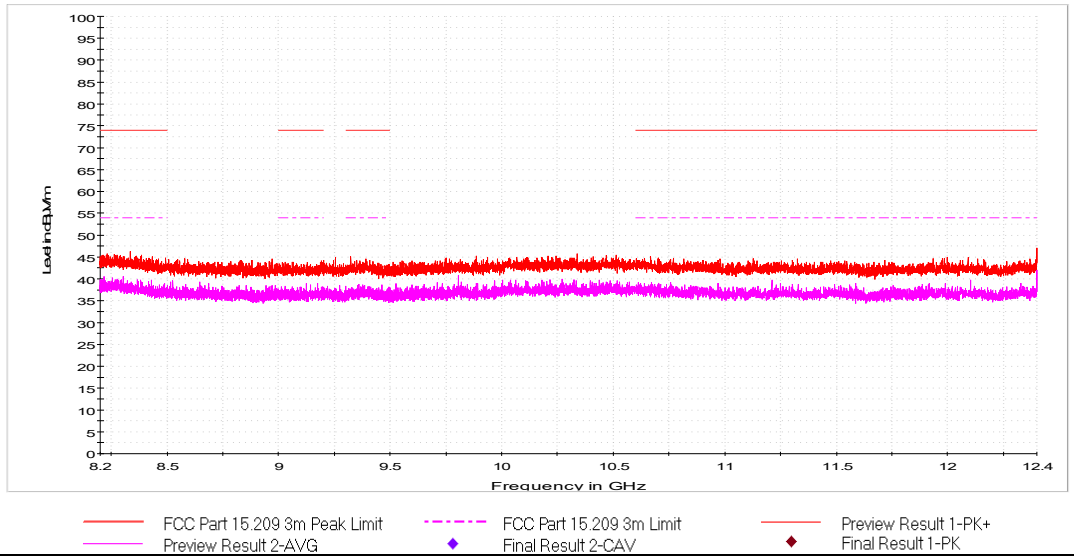


Graph 59

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

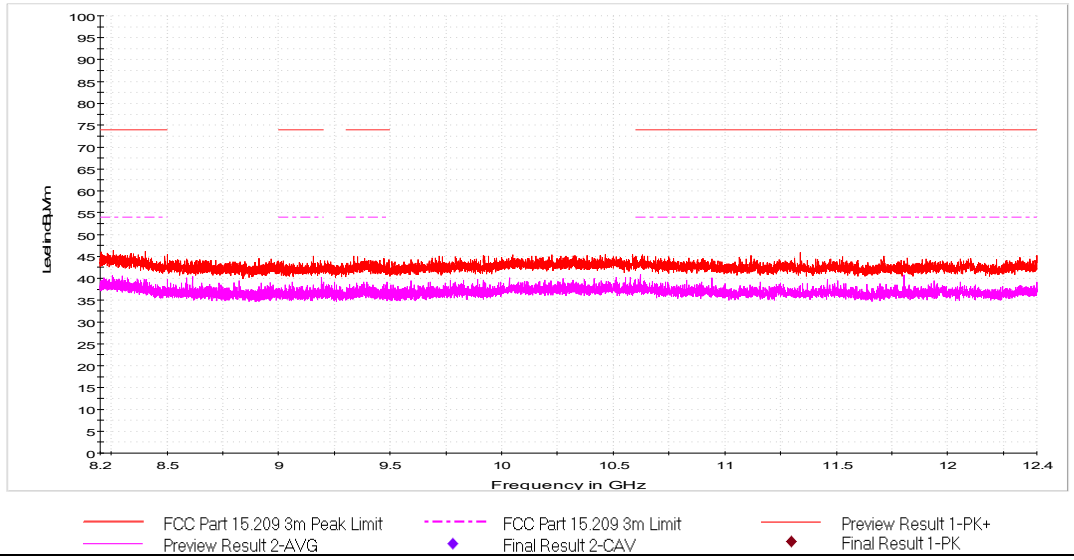


Graph 60

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

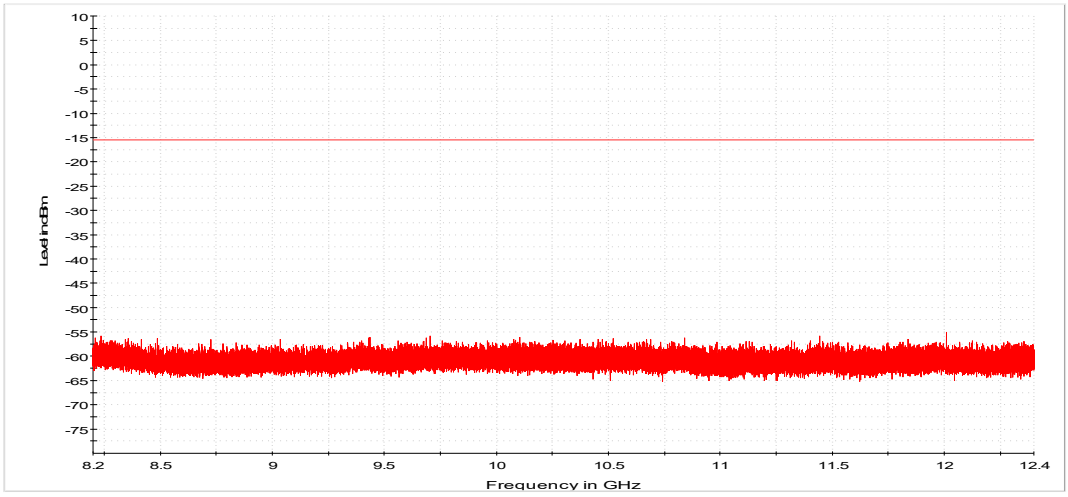


Graph 61

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

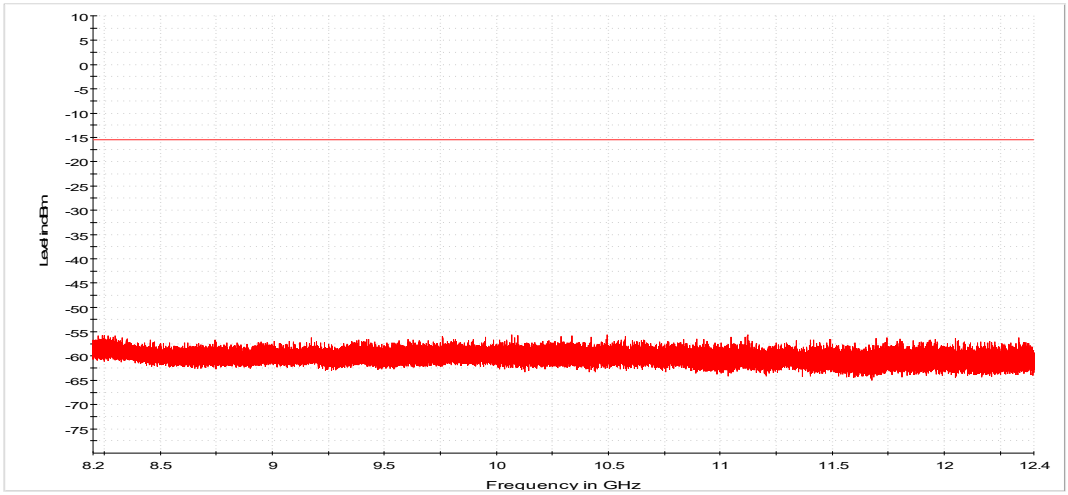


Graph 62

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

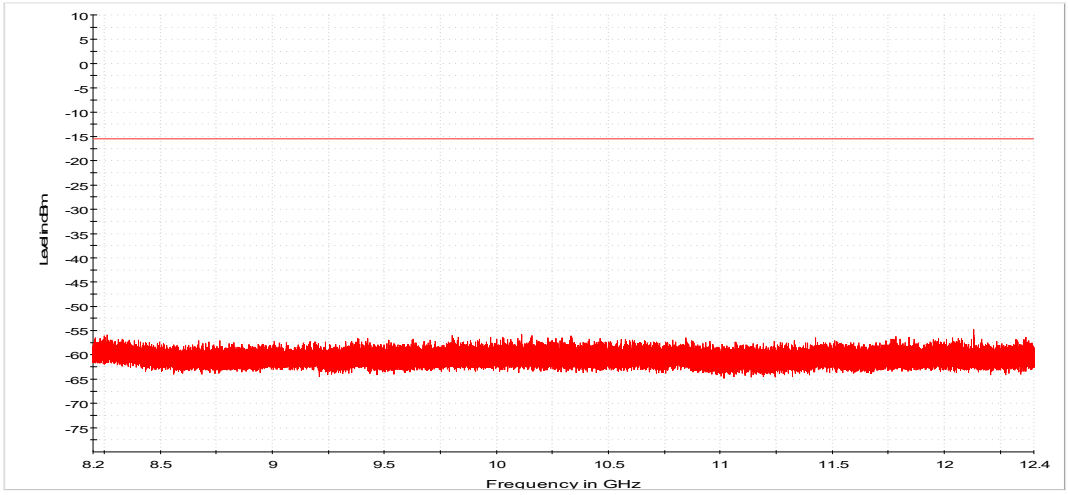


Graph 63

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

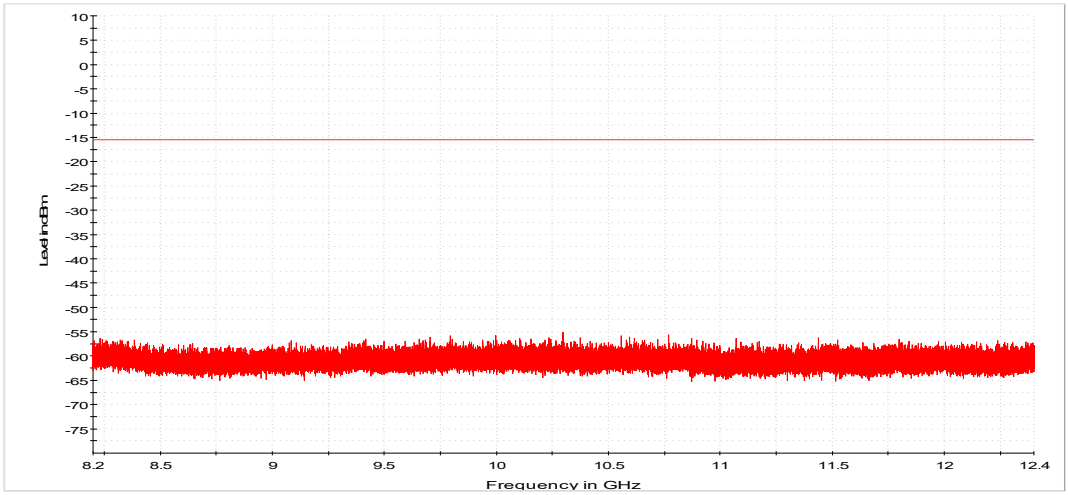


Graph 64

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

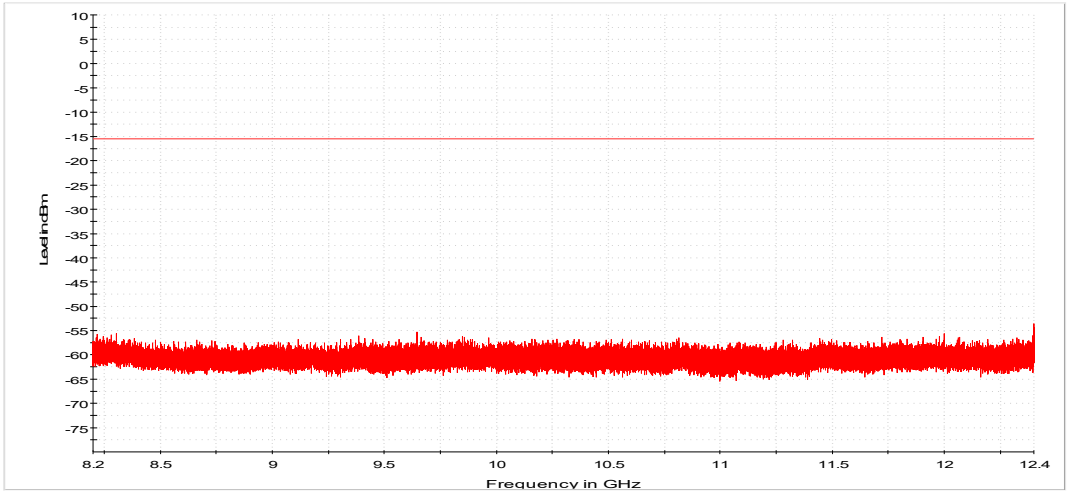


Graph 65

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 8.2GHz to 12.4GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

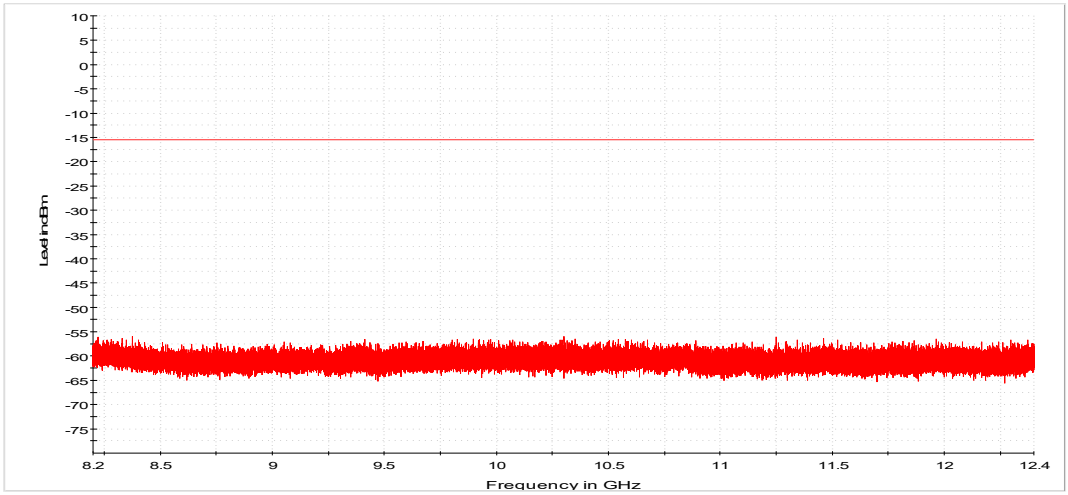


Graph 66

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 8.2GHz to 12.4GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

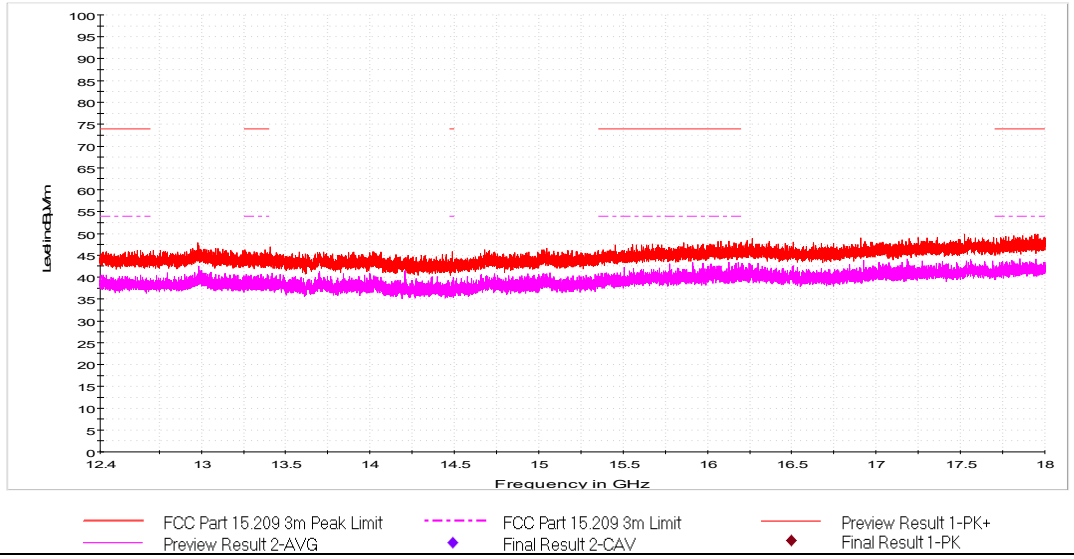


Graph 67

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

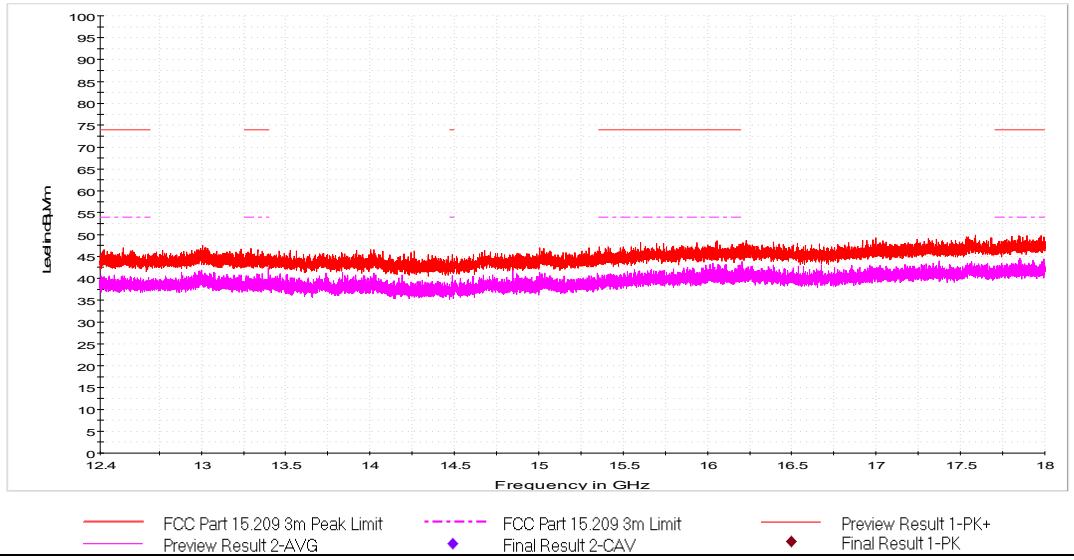


Graph 68

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

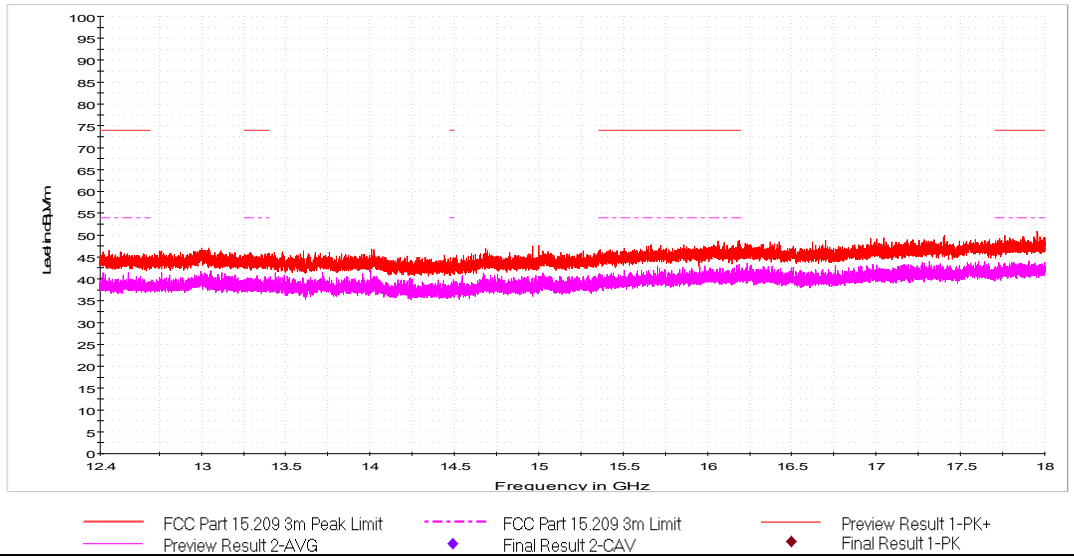


Graph 69

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

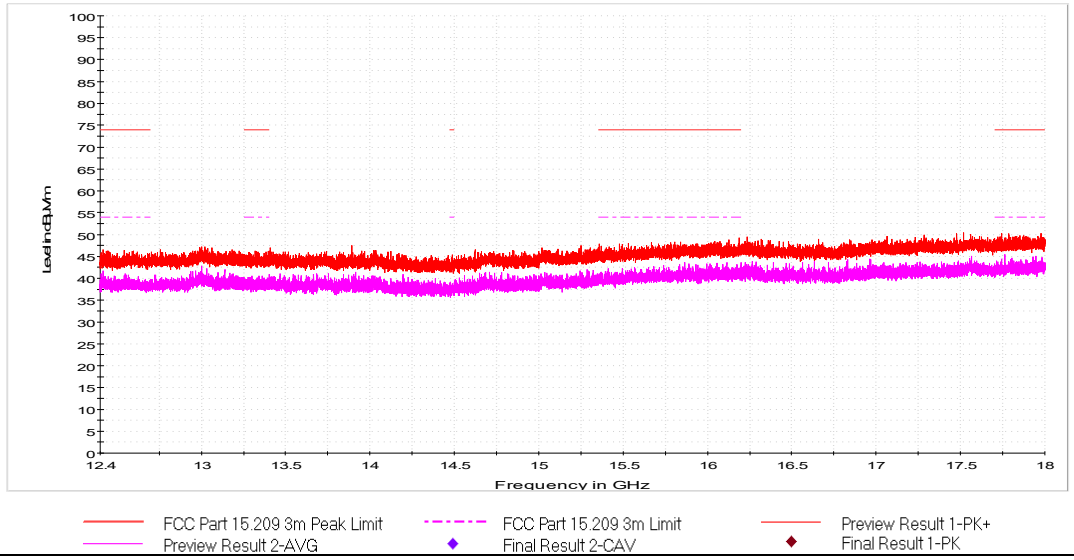


Graph 70

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

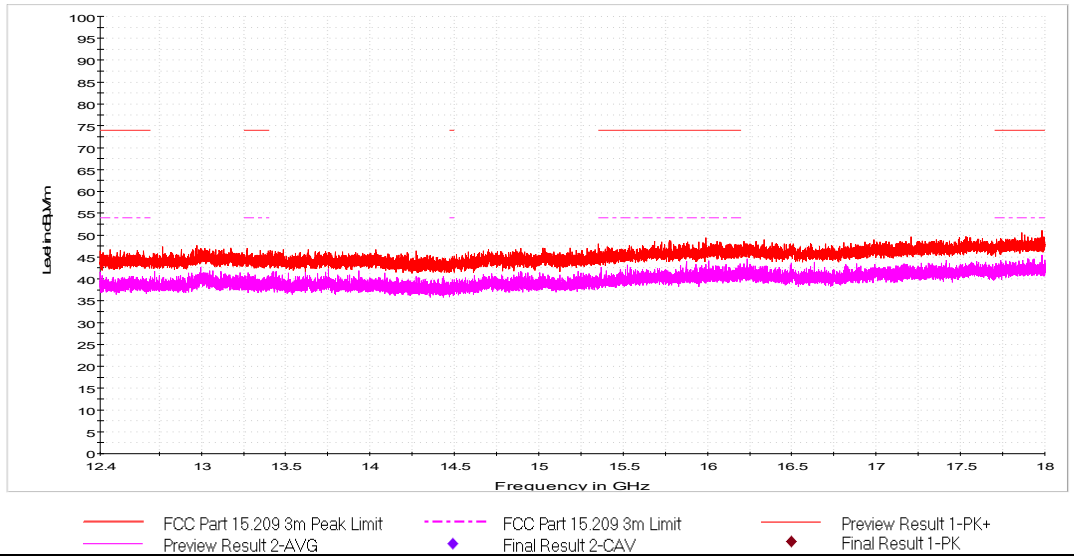


Graph 71

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

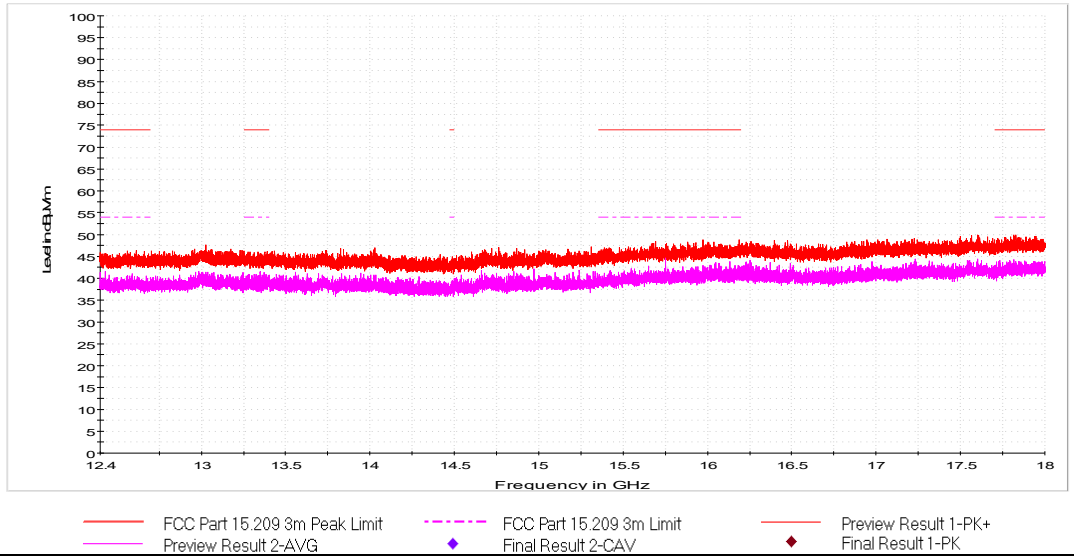


Graph 72

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

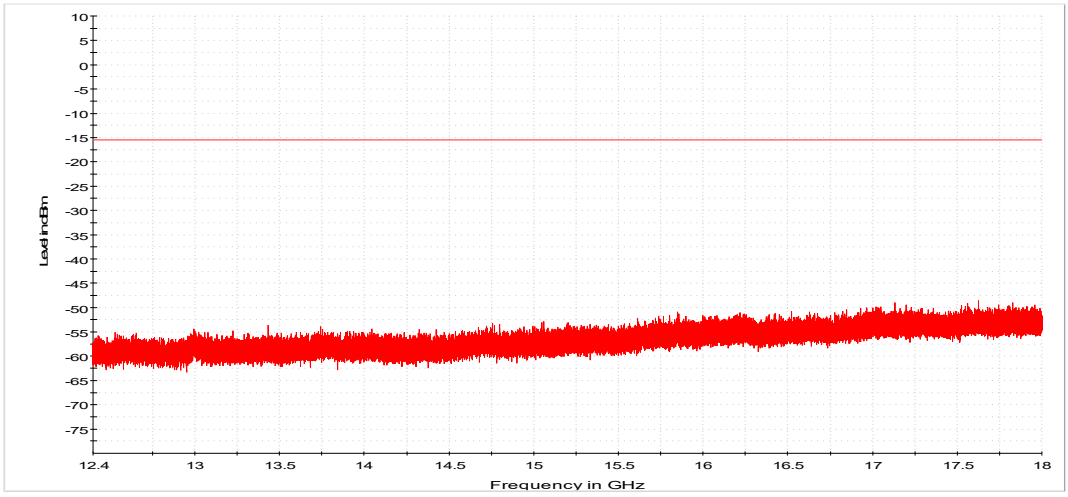


Graph 73

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

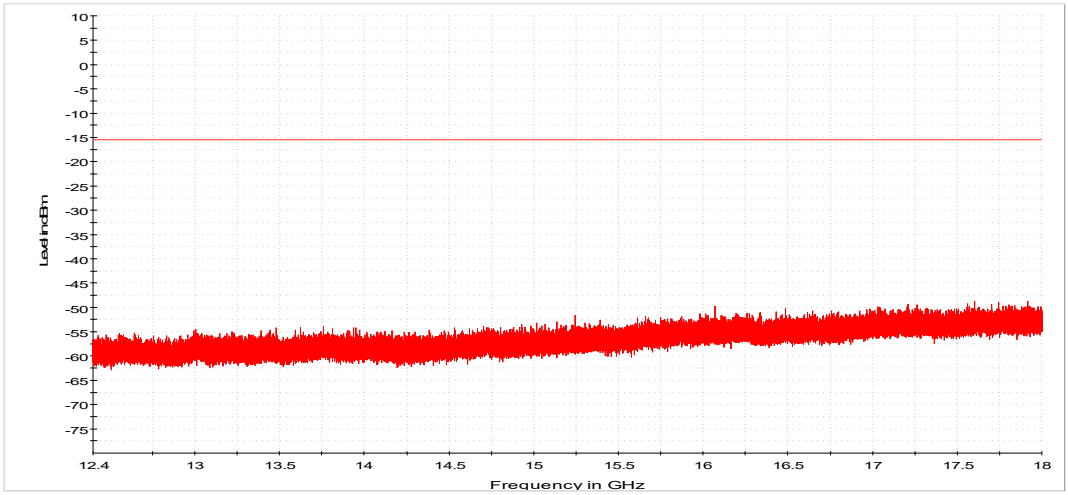


Graph 74

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



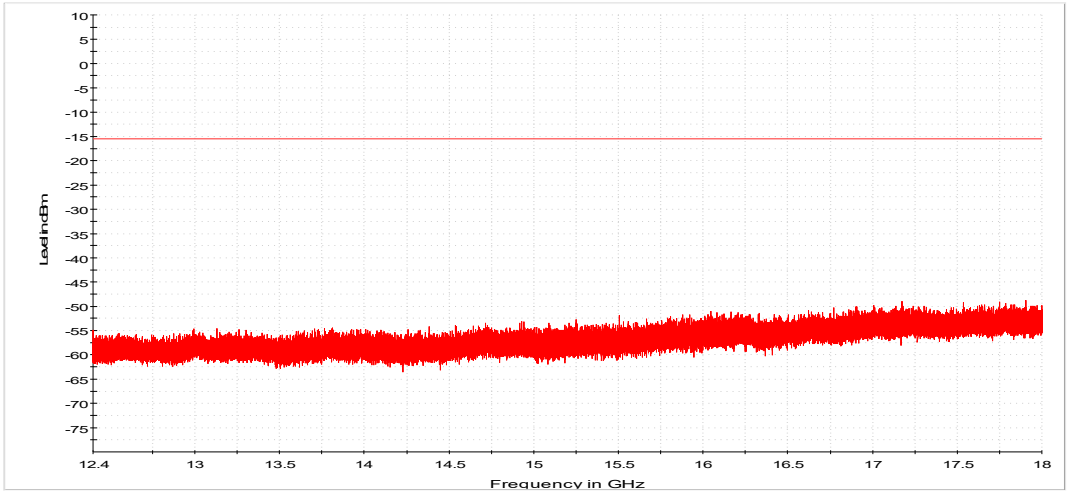
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 75

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



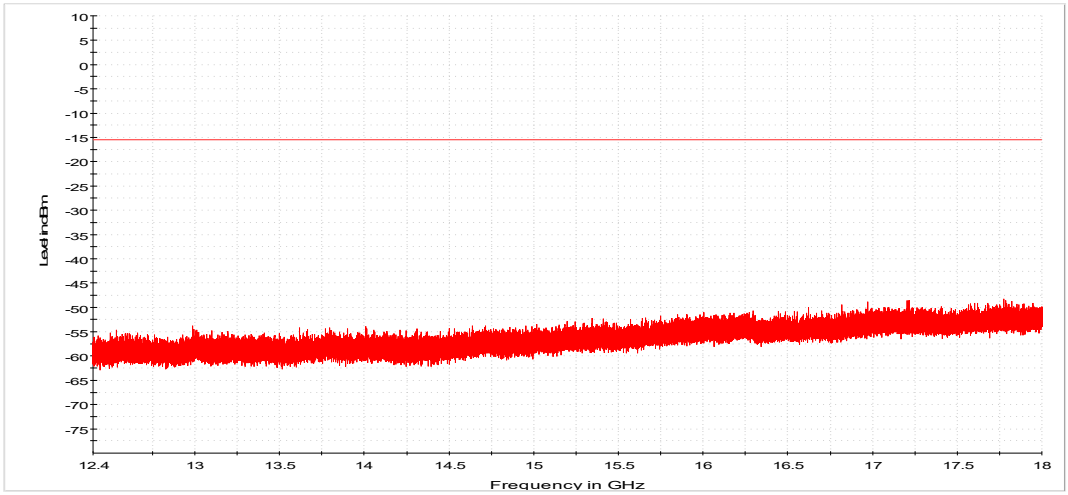
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 76

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



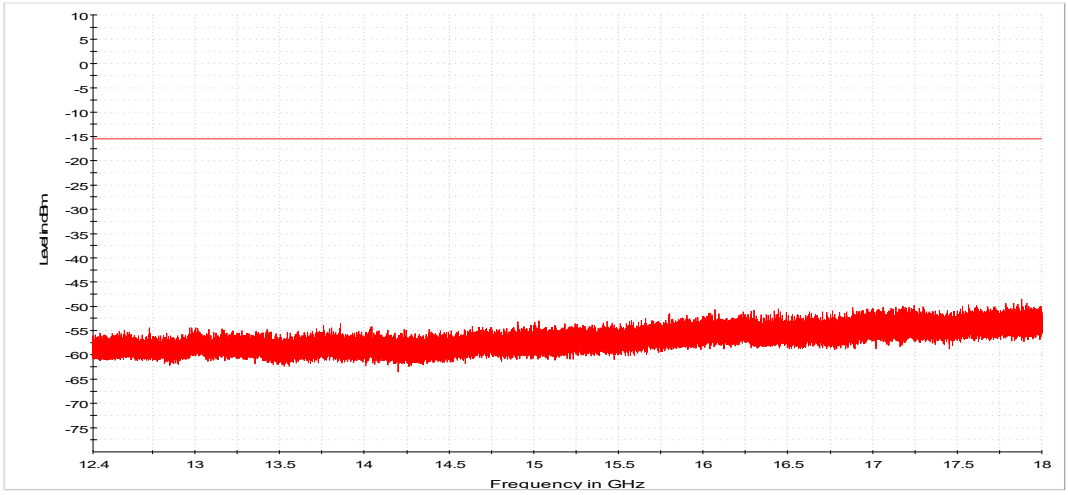
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 77

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 12.4GHz to 18GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



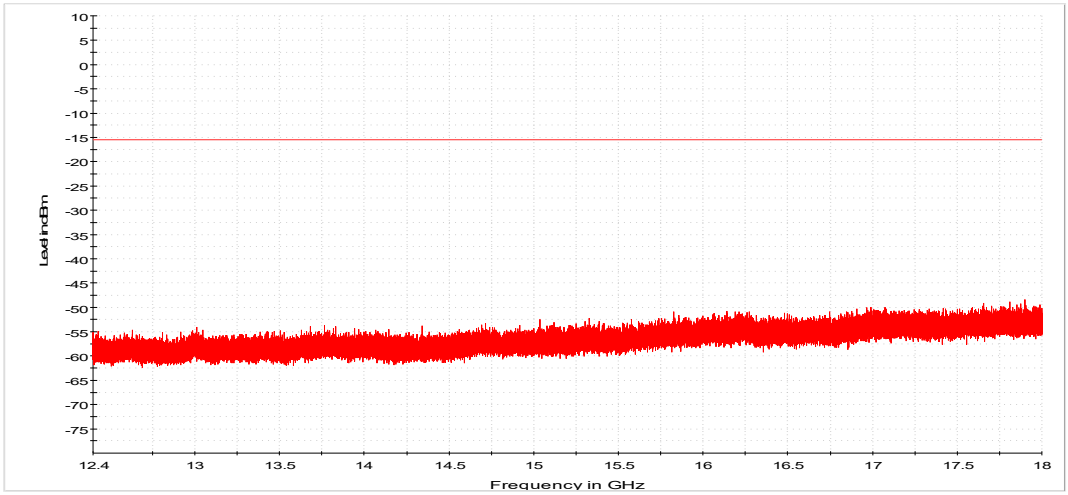
FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 78

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 12.4GHz to 18GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

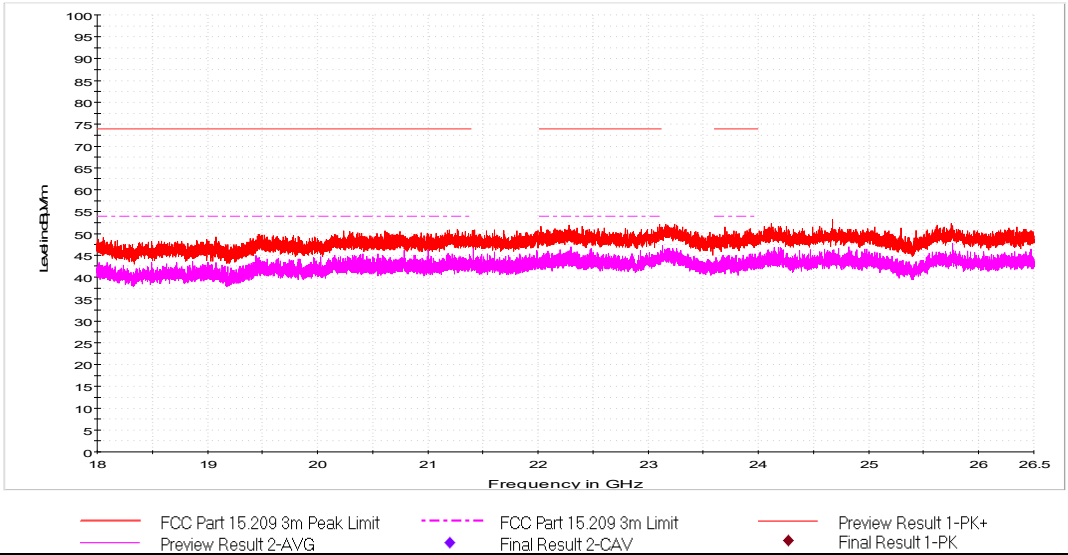


Graph 79

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

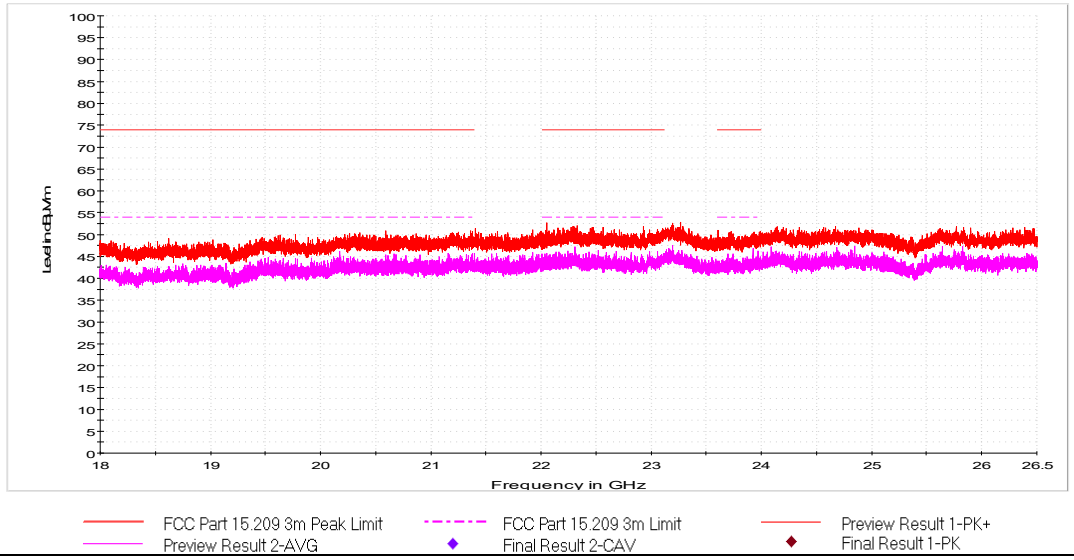


Graph 80

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

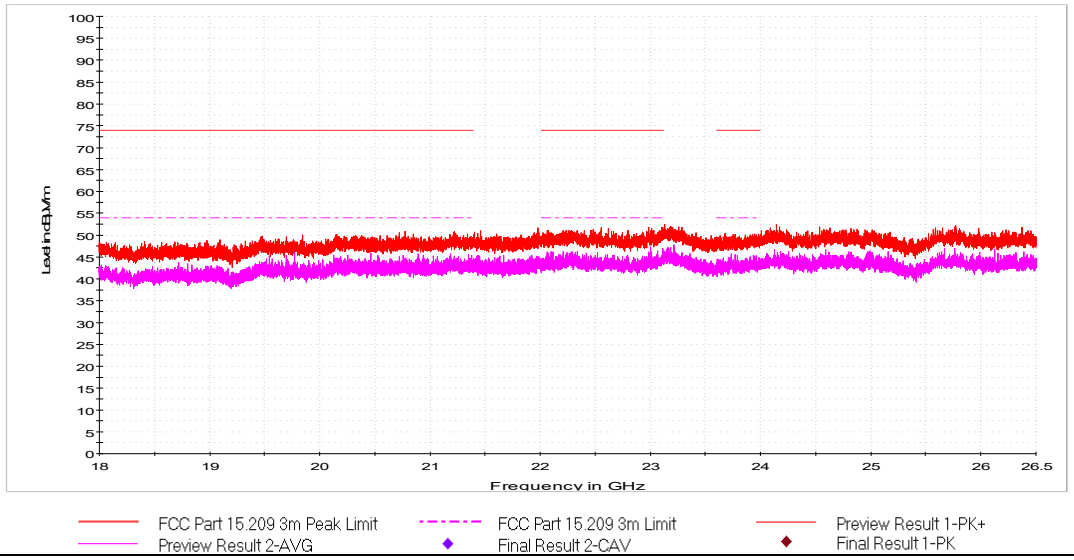


Graph 81

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

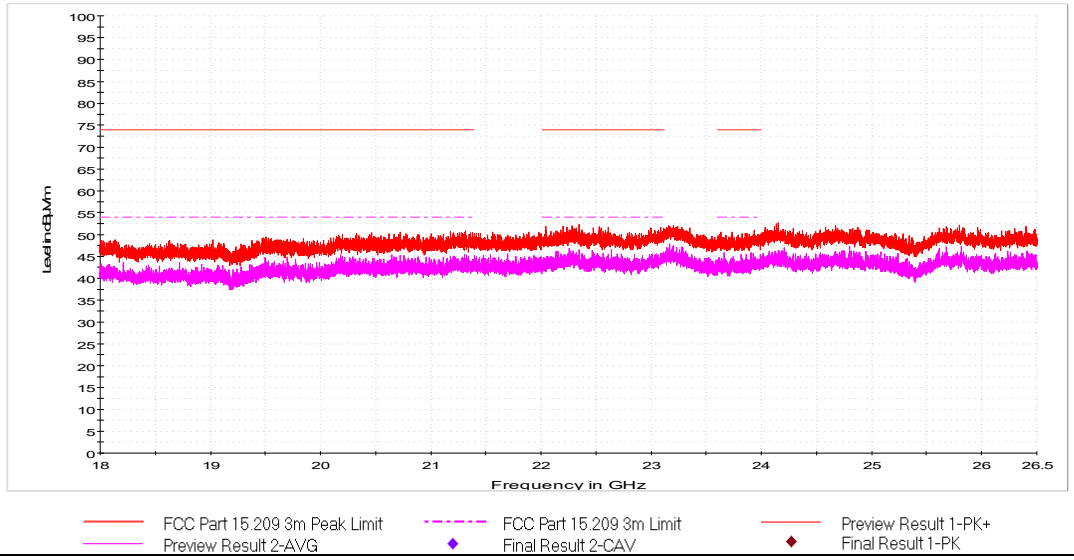


Graph 82

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

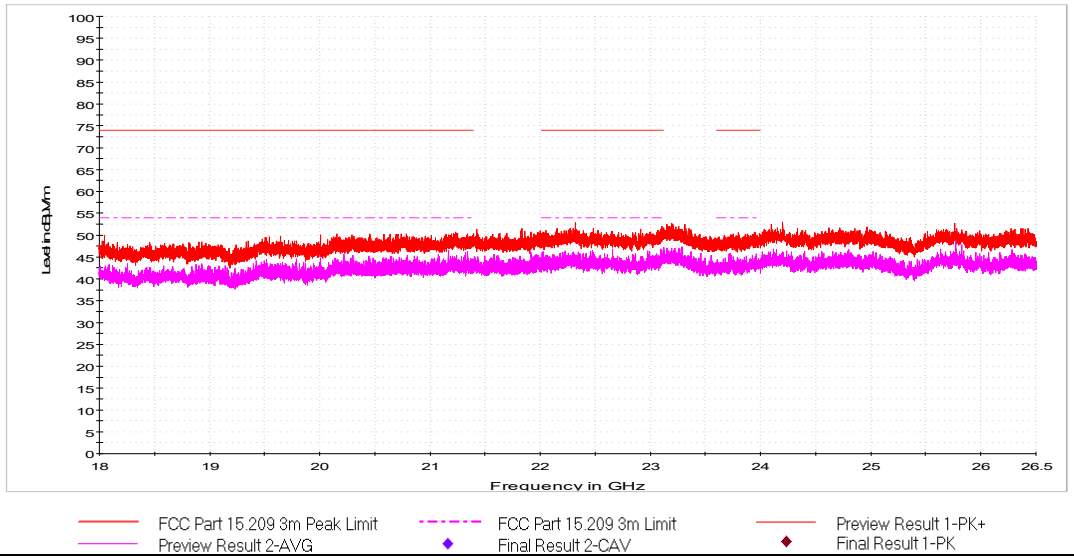


Graph 83

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

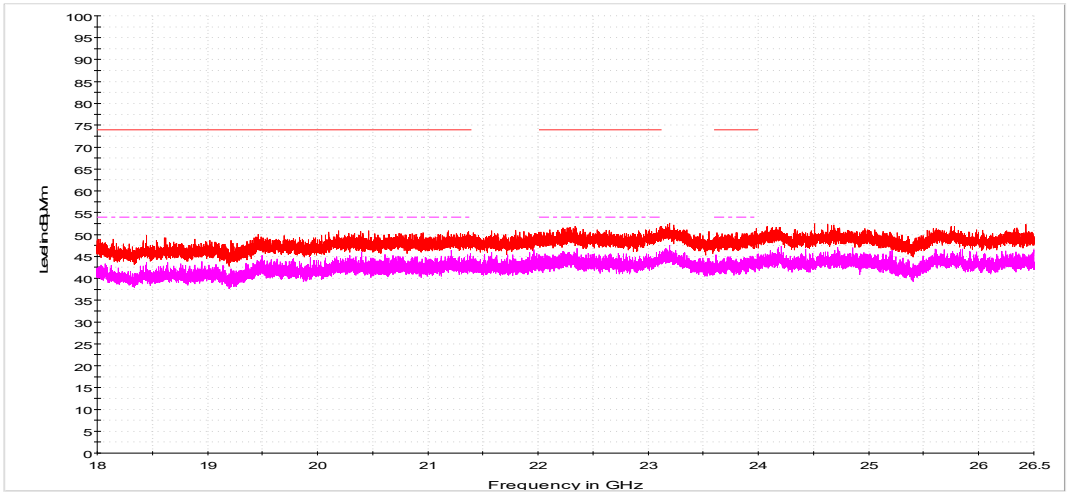


Graph 84

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

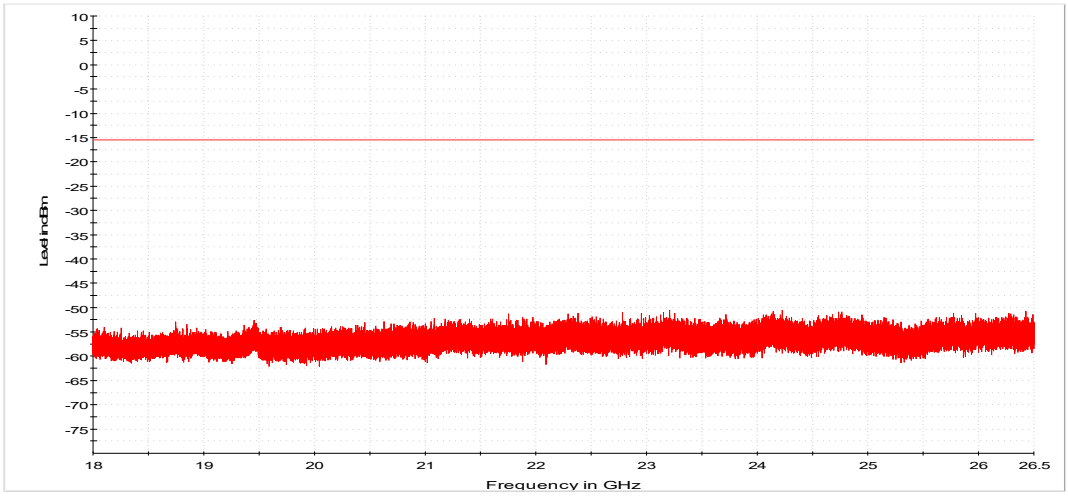


Graph 85

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

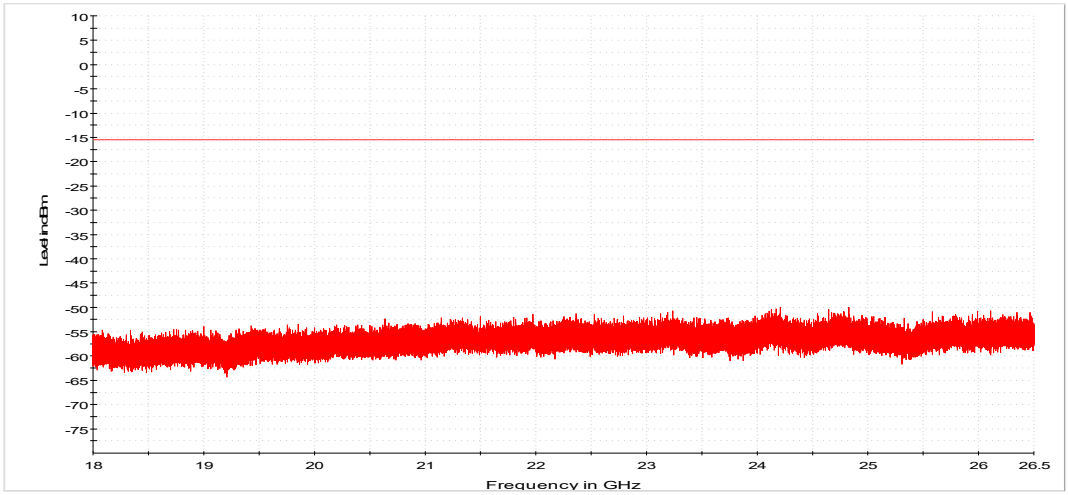


Graph 86

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

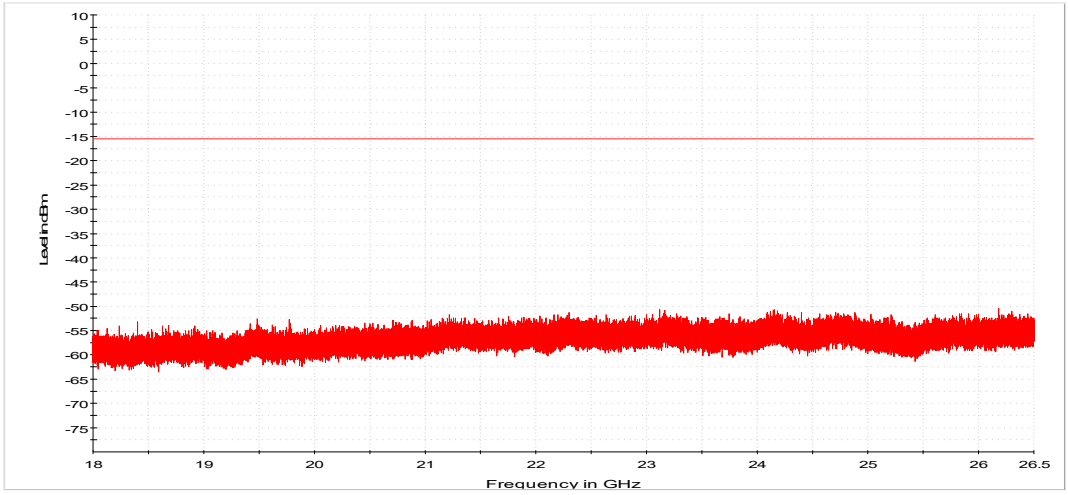


Graph 87

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

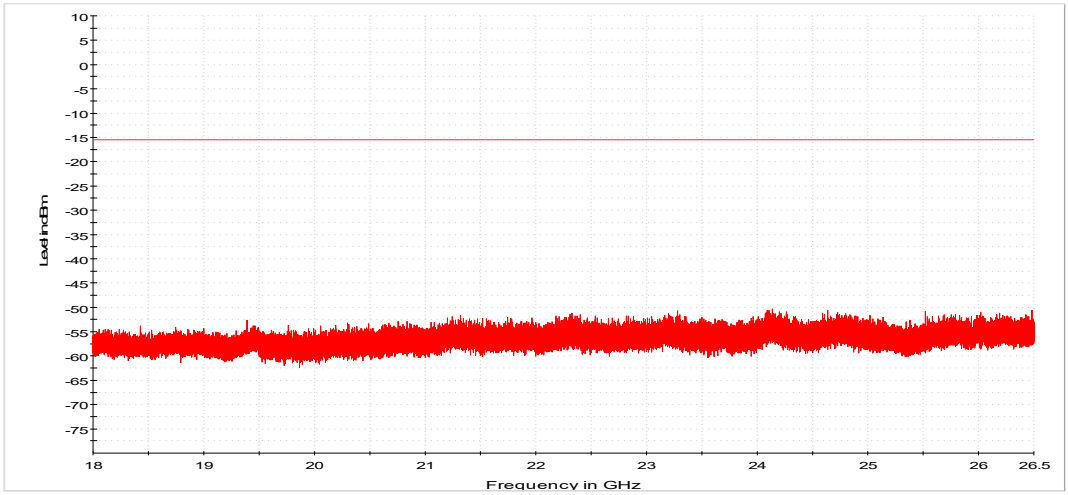


Graph 88

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ

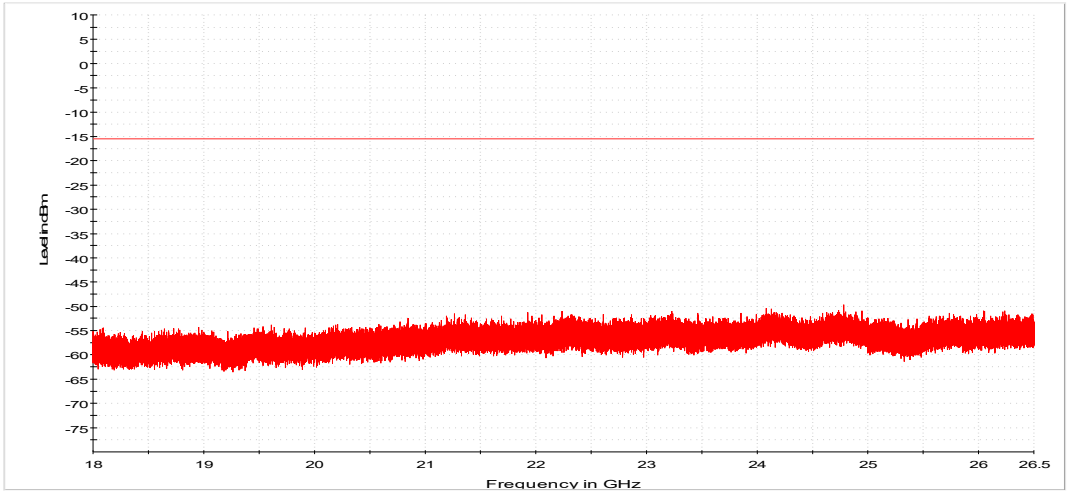


Graph 89

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 18GHz to 26.5GHz
Horizontal Antenna Polarisation

Job Number: E2206-1550-4
Test Engineer: AZ



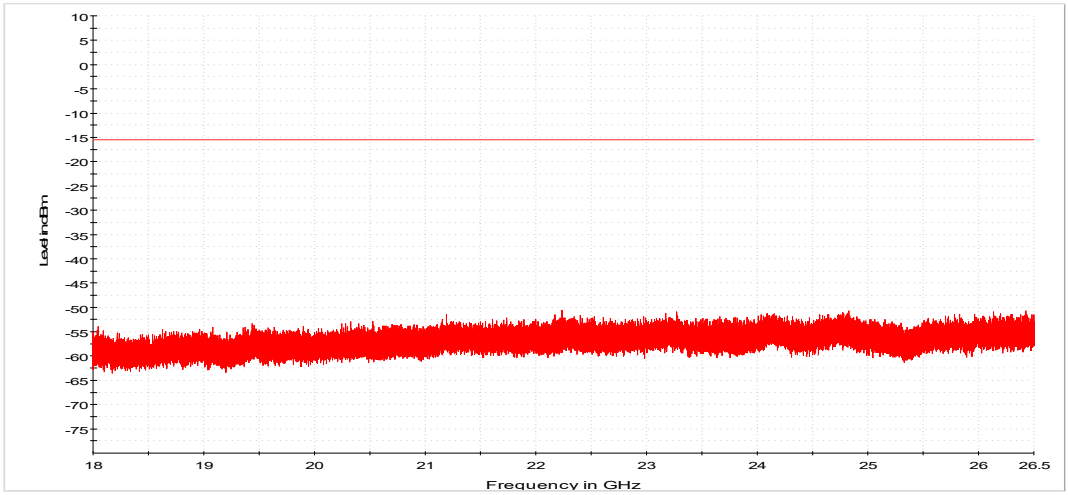
Graph 90

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Radiated emissions in Non-Restricted bands
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel – 18GHz to 26.5GHz
Vertical Antenna Polarisation

Job Number: E2206-1550-4

Test Engineer: AZ



FCC 15-247 Non-restricted band spurious emissions - RBW 100kHz -20dBc limit — Peak Preview

Graph 91

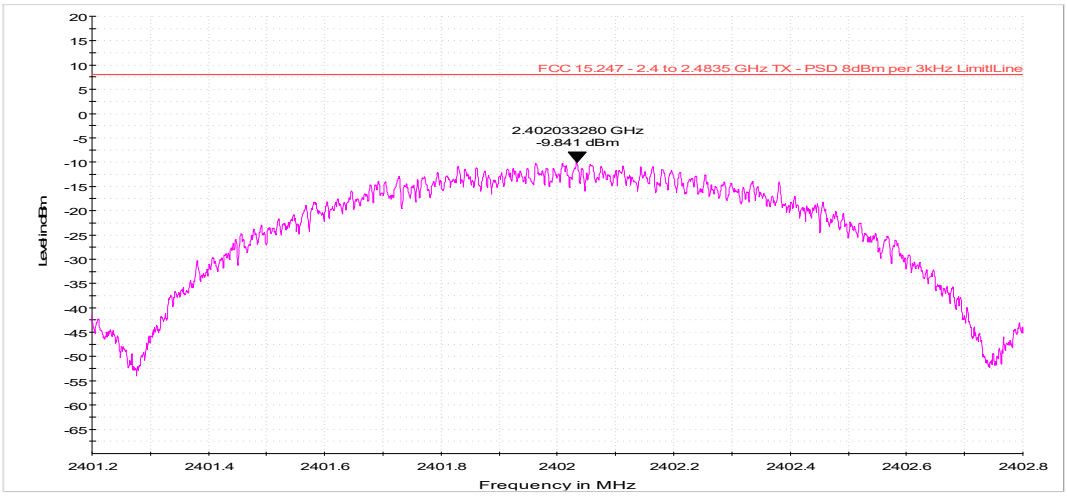
Appendix C.5 – Measurement Graphs – Power Spectral Density – FCC 15.247 (e)

No.	Test	Graph Description
92	Power Spectral Density	2402MHz Channel
93		2426MHz Channel
94		2480MHz Channel

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Peak Power Spectral Density
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2402MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

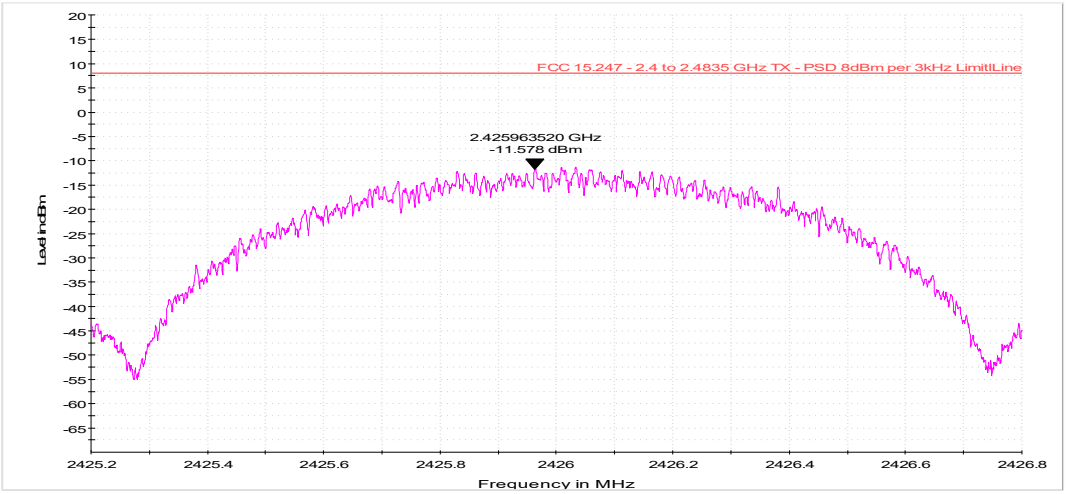


Graph 92

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Peak Power Spectral Density
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2426MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ

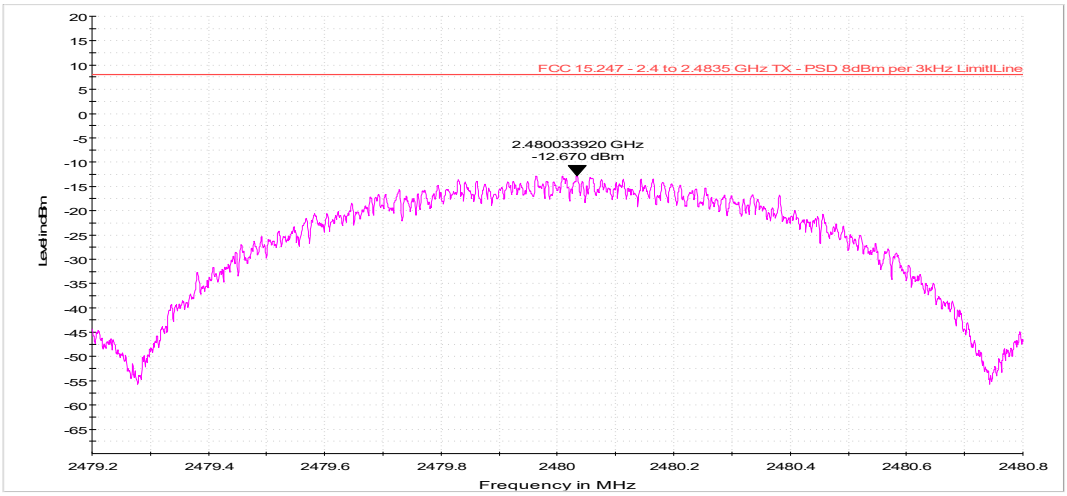


Graph 93

EMC Bayswater Pty. Ltd.

CFR47 FCC Part 15, Subpart C, 15.247 - Peak Power Spectral Density
Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch
2480MHz Channel

Job Number: E2206-1550-4
Test Engineer: AZ



Graph 94

Appendix C.6 – Occupied Bandwidth (99% Emission Bandwidth)

No.	Test	Graph Description
95	Occupied Bandwidth (99% Emission Bandwidth)	2402MHz Channel
96		2426MHz Channel
97		2480MHz Channel

EMC Bayswater Pty. Ltd.

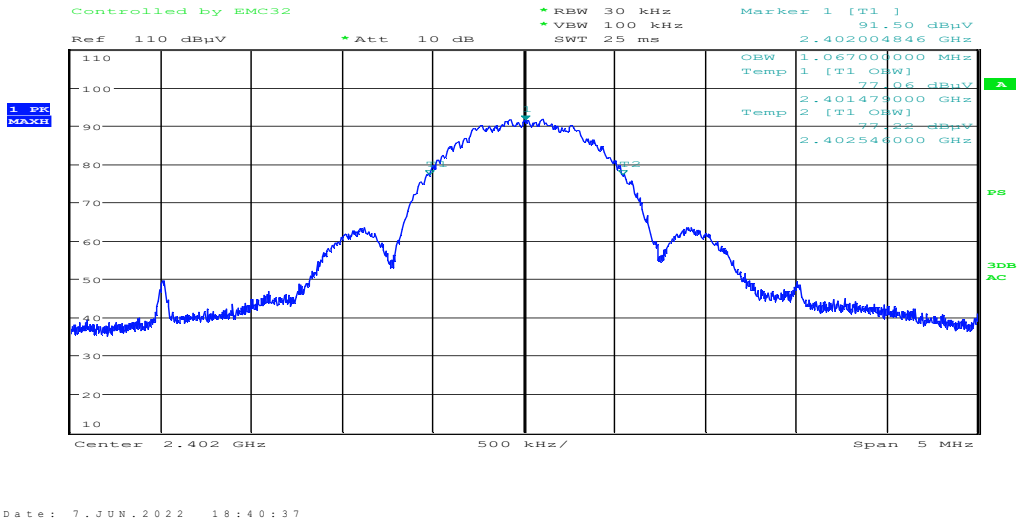
CFR47 FCC Part 15, Subpart C, 15.247 - Occupied Bandwidth (99% Emission Bandwidth)

Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch

2402MHz Channel

Job Number: E2206-1550-4

Test Engineer: AZ



Graph 95

EMC Bayswater Pty. Ltd.

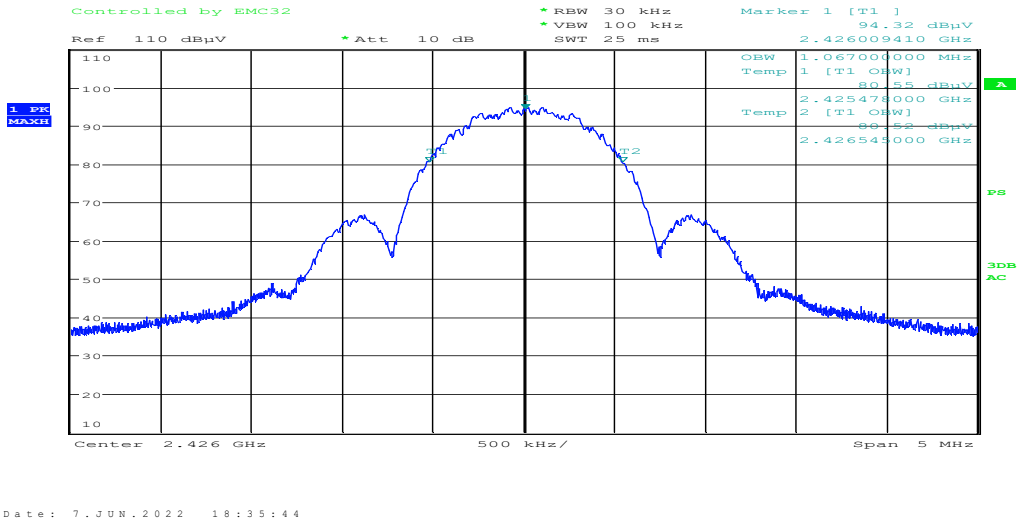
CFR47 FCC Part 15, Subpart C, 15.247 - Occupied Bandwidth (99% Emission Bandwidth)

Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch

2426MHz Channel

Job Number: E2206-1550-4

Test Engineer: AZ



Graph 96

EMC Bayswater Pty. Ltd.

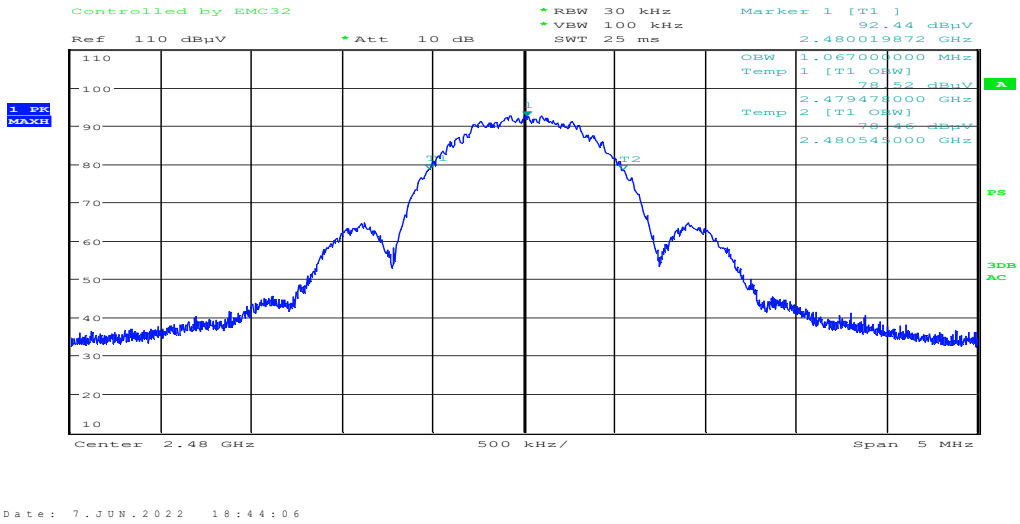
CFR47 FCC Part 15, Subpart C, 15.247 - Occupied Bandwidth (99% Emission Bandwidth)

Setec BMPRO Pty Ltd - RVSWT101 - Wireless Wall Switch

2480MHz Channel

Job Number: E2206-1550-4

Test Engineer: AZ



Graph 97