



849 NW State Road 45
Newberry, FL 32669 USA
Ph.: 888.472.2424 or
352.472.5500
Fax: 352.472.2030
Email: info@timcoengr.com
Website: www.timcoengr.com

FCC PART 15.247 & IC RSS-247

2.4 GHz DTS

TEST REPORT

Applicant	ADHERIUM (NZ) LTD.
Address	Level 2, 204 Quay Street Auckland 1010 NEW ZEALAND
FCC ID	PN2-SYM1
IC	20509-SYM1
Model Number	NF0092
Product Description	WIRELESS DATA LOGGER FOR INHALED MEDICATION
Date Sample Received	4/15/2016
Final Test Date	4/28/2016
Tested By	Cory Leverett
Approved By	Tim Royer

Report Number	Version Number	Description	Issue Date
655AUT16TestReport	Rev1	Initial Issue	4/29/2016
655AUT16TestReport	Rev2	Updated Conducted Power Description On Page 11	4/29/2016

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

TABLE OF CONTENTS

GENERAL REMARKS	3
GENERAL INFORMATION	4
EUT Specification	4
Test Supporting Equipment	4
RESULTS SUMMARY	5
DTS BANDWIDTH	6
Test Data: 6 dB Occupied Bandwidth Measurement Table	6
Test Data: 6dB Bandwidth Plot Low End of Band	7
Test Data: 6dB Bandwidth Plot Middle of Band	8
Test Data: 6dB Bandwidth Plot High end of Band	9
PEAK POWER OUTPUT	10
Test Data: Peak Conducted Power Output Measurement Table	11
Test Data: Peak Power Output Plot Low End of Band	12
Test Data: Peak Power Output Plot Middle of Band	13
Test Data: Peak Power Output High End of Band	14
POWER SPECTRAL DENSITY	15
Test Data: Power Spectral Density Measurement Table	16
Test Data: Power Spectral Density Plot Low End of Band	17
Test Data: Power Spectral Density Plot Middle of Band	18
Test Data: Power Spectral Density Plot High End of Band	19
OCCUPIED BANDWIDTH	20
Test Data: Occupied Bandwidth Measurement Table	20
Test Data: 99% Bandwidth Plot Low End of Band	21
Test Data: 99% Bandwidth Plot Middle of Band	22
Test Data: 99% Bandwidth Plot High end of Band	23
BANDEDGE	24
Test Data: Bandedge Measurement Table	24
Test Data: Upper Adjacent Restricted Band Edge Plot	25
Test Data: Lower Authorized Band Edge Plot	26
ANTENNA CONDUCTED SPURIOUS EMISSIONS	27
Test Data: 100 KHz Reference Level Plot	28
Test Data: Low End of Band 30 MHz – 25 GHz Plot	29
Test Data: Middle of Band 30 MHz – 25 GHz Plot	30
Test Data: High End of Band 30 MHz – 25 GHz Plot	31
RADIATED SPURIOUS EMISSIONS	32
Test Data: Restricted Band Emissions Field Strength table	34
EMC EQUIPMENT LIST	35

GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

The test results relate only to the items tested.

Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was chosen by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025: 2005 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669

Authorized Signatory Name:

A handwritten signature in blue ink, appearing to read 'Cory Leverett', is written over a circular purple stamp. The stamp contains the text 'TIMCO ENGINEERING, INC.' and 'NEWBERRY, FL 32669'.

Cory Leverett
Engineering Project Manager

Date: 4/29/2016

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

GENERAL INFORMATION

EUT Specification

Regulatory Standards	FCC Title 47 CFR Part 15.247 IC RSS-247 Issue 1 IC RSS-GEN Issue 4		
FCC ID	PN2-SYM1		
IC	20509-SYM1		
Model	NF0092		
EUT Description	WIRELESS DATA LOGGER FOR INHALED MEDICATION		
Modulation Type	Bluetooth LE (GFSK 1 Mbps)		
Operating Frequency	TX: 2402 – 2480 MHz	RX: 2402 – 2480 MHz	
EUT Power Source	☐ 110–120Vac/50– 60Hz		
	☐ DC Power		
	☒ Battery Operated		
Test Item	☐ Prototype	☒ Pre-Production	☐ Production
Type of Equipment	☐ Fixed	☐ Mobile	☒ Portable
Antenna Connector	None (Temp Connector Provided for testing)		
Antenna	Internal PCB Trace Antenna gain 0 dBi		
Test Conditions	Temperature: 24-26°C Relative humidity: 50-65%		
Measurement Standard	ANSI C63.10-2013 (Measurement Procedures) FCC Rule Part 15.31, 15.33, 15.35 RSS-GEN Issue 4		
Test Exercise	The EUT was tested in fully modulated continuous transmission mode		

Test Supporting Equipment

Device	Manufacturer	Model	S/N	Supplied By	Used For
NA					

RESULTS SUMMARY

FCC Rule Part No.	IC Standard Ref.	Requirement	Test Item	Result
15.215 (c)	RSS-GEN 6.6	Occupied Bandwidth	99% Bandwidth	Pass
15.247(a)(e)	RSS-247 § 5.2	Digital Transmission Systems	6 dB Bandwidth	Pass
			Power Spectral Density	Pass
15.247(b)	RSS-247 § 5.4	Transmitter Output Power and Equivalent Isotropically Radiated Power	Peak Power Output (ERP)	Pass
			Antenna Gain (EIRP)	Pass
15.247(d)	RSS-247 § 5.5	Unwanted Emissions	Bandedge	Pass
			Radiated Spurious	Pass

Notes:

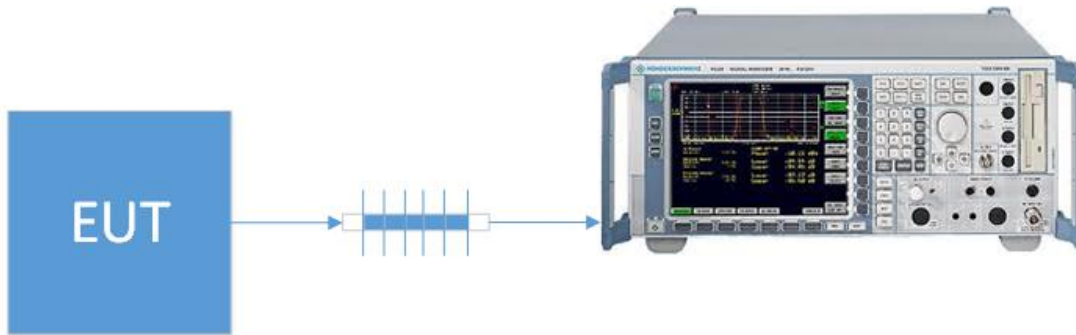
DTS BANDWIDTH

Rules Part No.: FCC 15.247 (a)(2) , IC RSS 247 § 5.2.1

Requirements: The minimum 6 dB bandwidth shall be 500 kHz.

Test Method: ANSI C63.10 § 11.8.1 DTS Bandwidth Option 1

Setup:



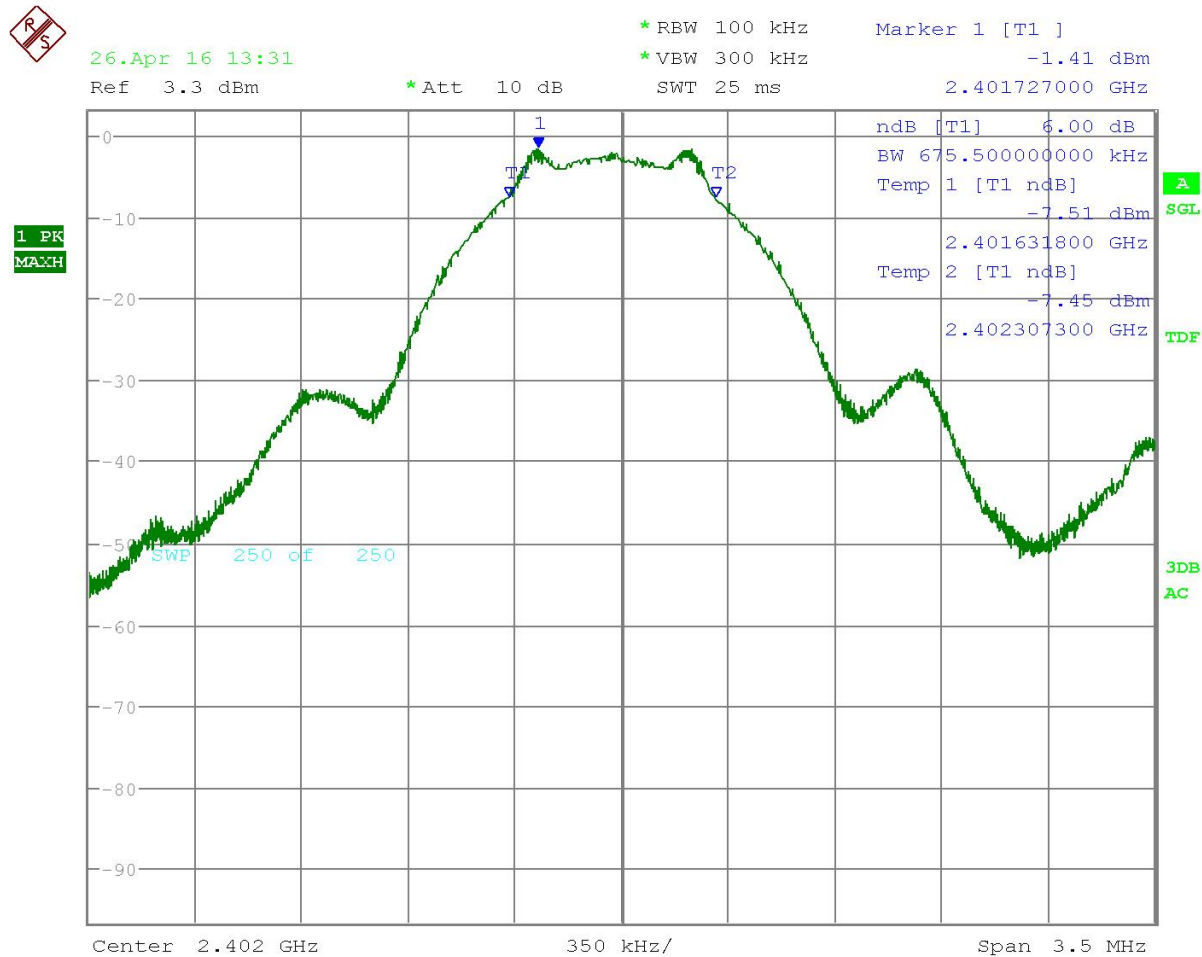
Test Data: 6 dB Occupied Bandwidth Measurement Table

Tuned Frequency (MHz)	6 dB BW (KHz)	Limit (KHz)	Margin (KHz)
2402	675.5	≥ 500	175.5
2442	671.3	≥ 500	171.3
2480	674.8	≥ 500	174.8

RESULTS: Meets Requirements

DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot Low End of Band



Date: 26.APR.2016 13:31:44

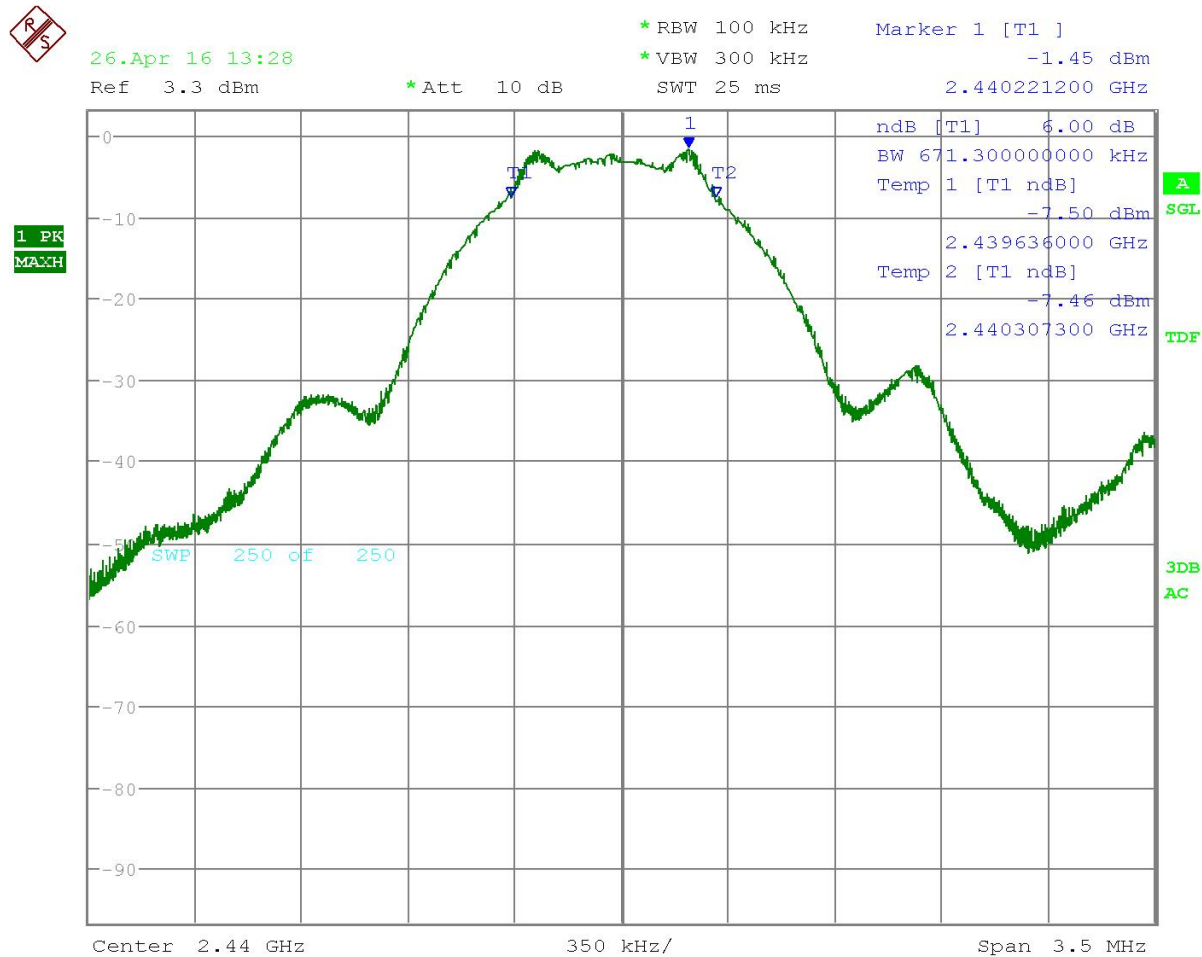
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot Middle of Band



Date: 26.APR.2016 13:28:39

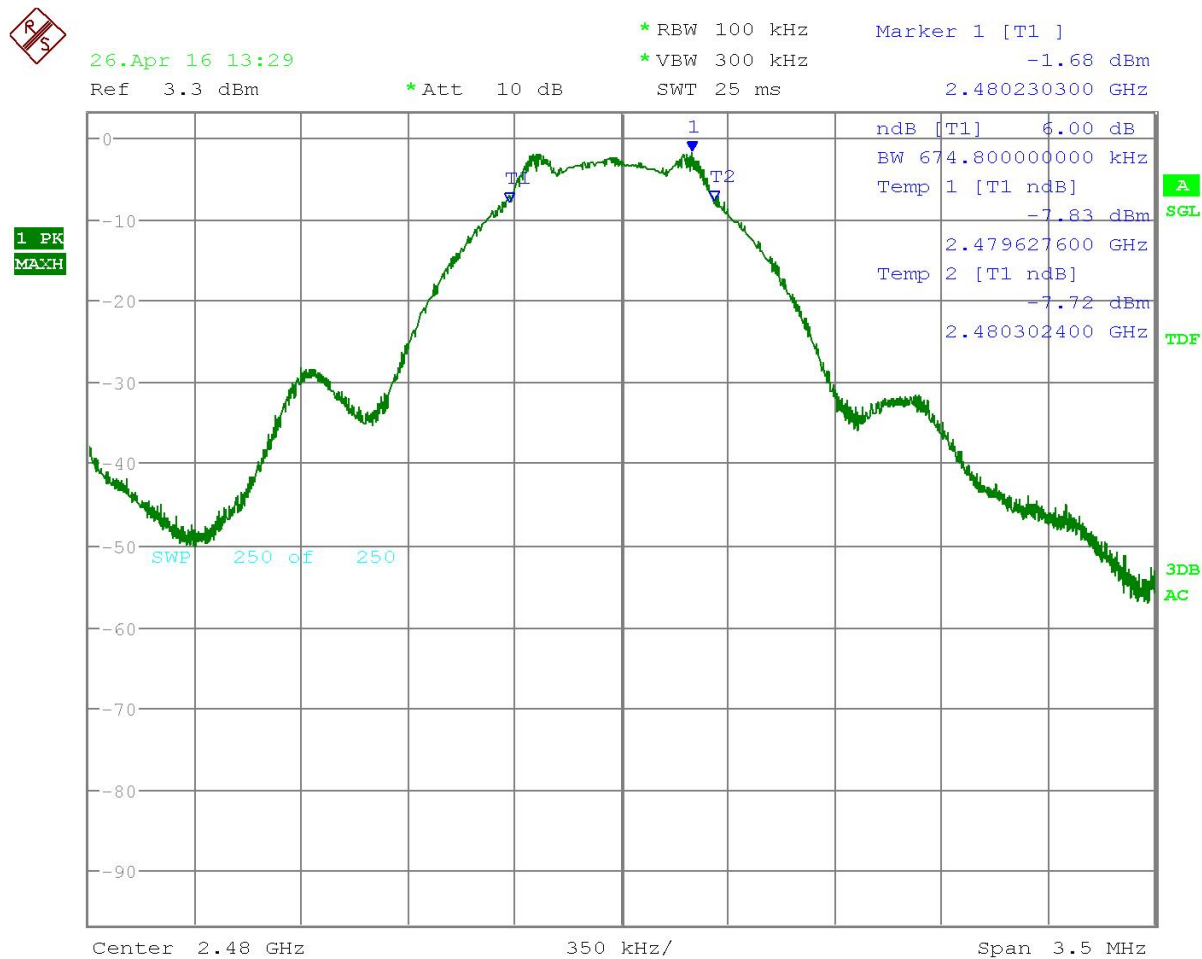
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot High end of Band



Date: 26.APR.2016 13:29:38

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

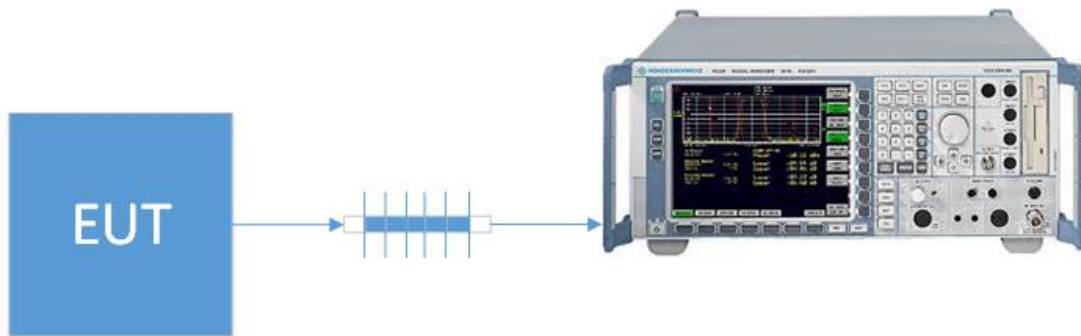
PEAK POWER OUTPUT

Rules Part No.: FCC 15.247(b) (3) (4), IC RSS 247 § 5.4.4

Requirements: Maximum Conducted Peak Power Output shall not exceed 1 Watt
Also the Peak Power Output shall not exceed 4 Watts EIRP

Test Method: ANSI C63.10 § 11.2 Power Limits, definitions, and device configuration
ANSI C63.10 § 11.9.1.1 Fundamental Output Power RBW $\geq$ DTS Bandwidth
ANSI C63.10 § Annex G Relationship among Field Strength and ERP/EIRP

Setup:



PEAK POWER OUTPUT

Test Data: **Peak Conducted Power Output Measurement Table**

Peak Conducted Power Output Measurement				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	P _{Conducted} (W)	Limit (W)	Margin (W)
2402	-0.90	0.00081	1.00	0.99919
2442	-0.98	0.00080	1.00	0.99920
2480	-1.12	0.00077	1.00	0.99923

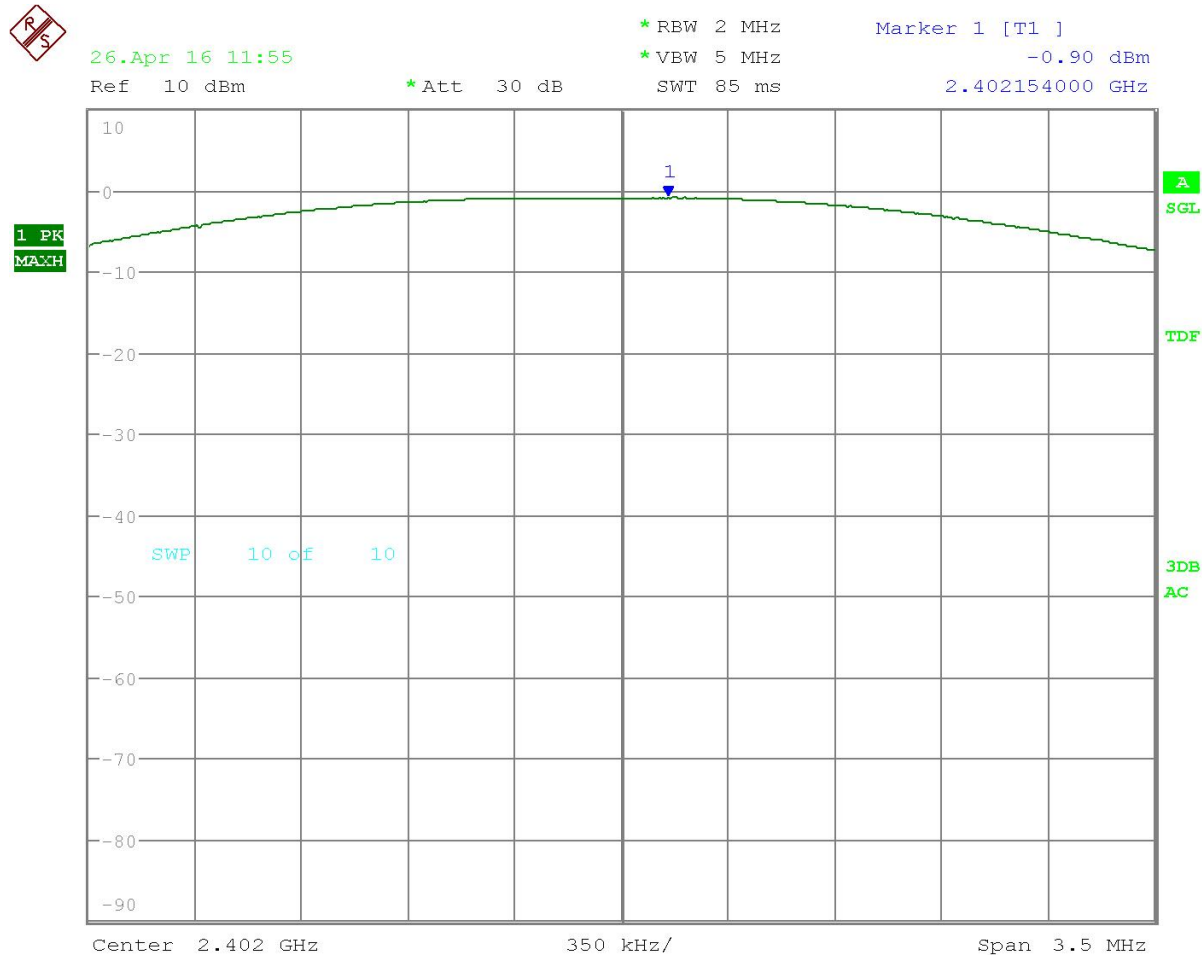
ERP to EIRP Conversion formula: $EIRP = ERP + 2.15 \text{ dB}$

Peak EIRP Power Output Calculation				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	EIRP (W)	Limit (W)	Margin (W)
2402	-0.9	0.00133	4.00	3.99867
2442	-0.98	0.00131	4.00	3.99869
2480	-1.12	0.00127	4.00	3.99873

RESULTS: Meets Requirements

PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Low End of Band



Date: 26.APR.2016 11:55:50

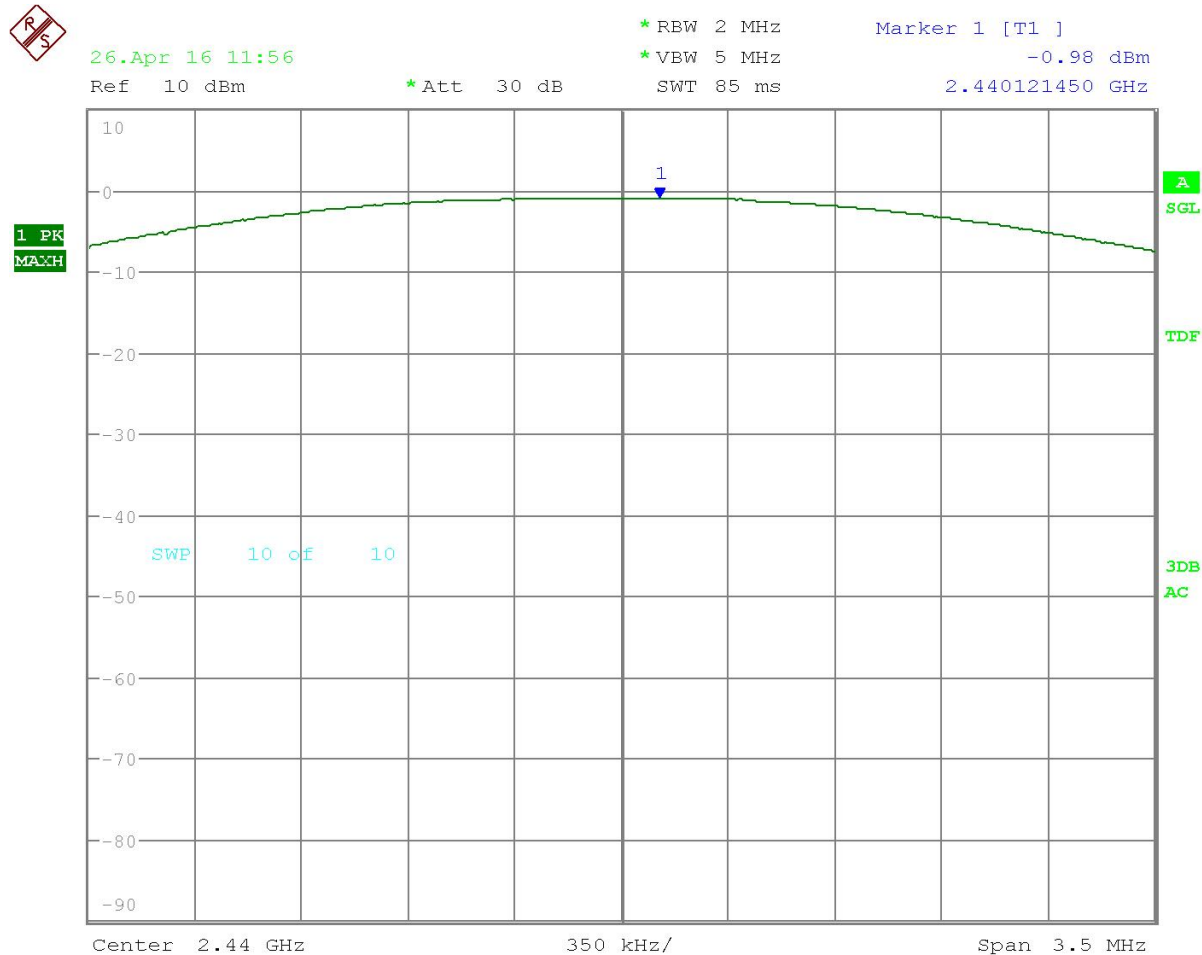
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Middle of Band



Date: 26.APR.2016 11:56:39

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

PEAK POWER OUTPUT

Test Data: Peak Power Output High End of Band



26.Apr 16 11:55

Ref 10 dBm

* Att 30 dB

* RBW 2 MHz

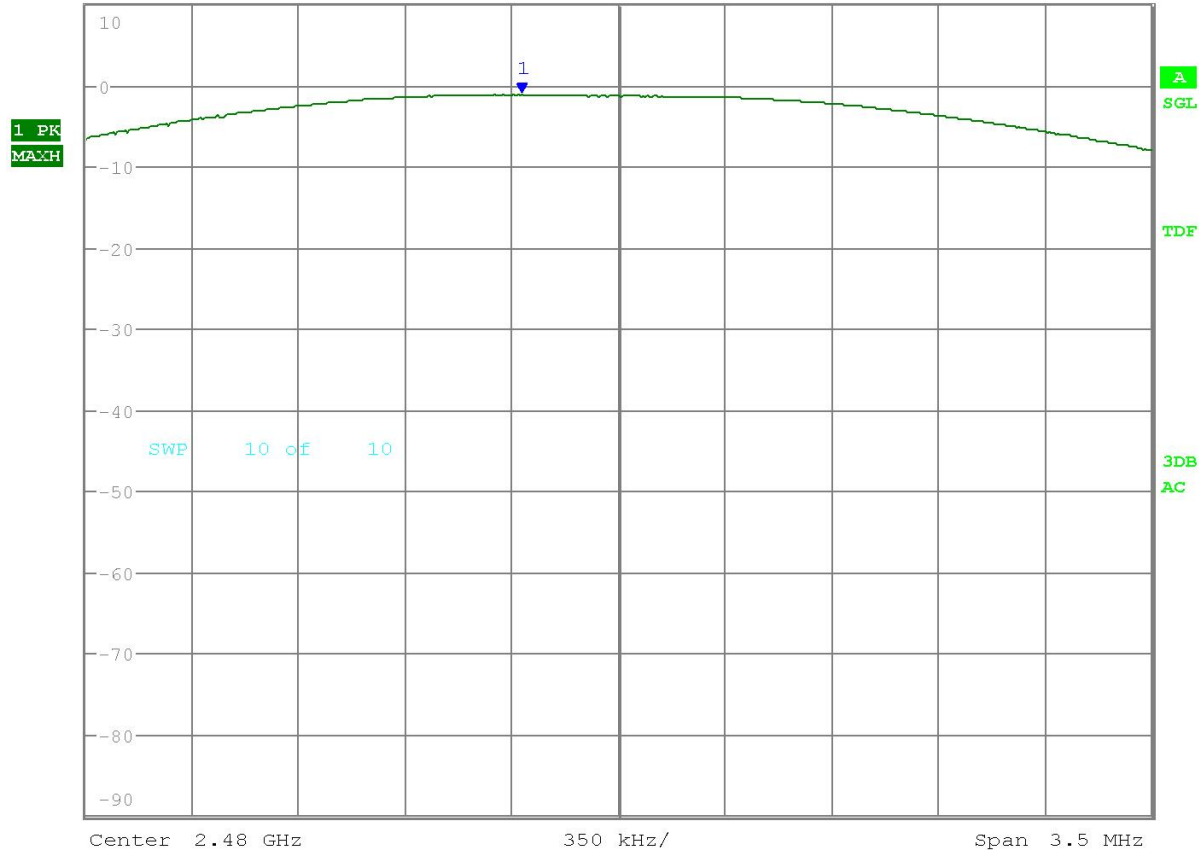
* VBW 5 MHz

SWT 85 ms

Marker 1 [T1]

-1.12 dBm

2.479680275 GHz



Date: 26.APR.2016 11:55:16

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

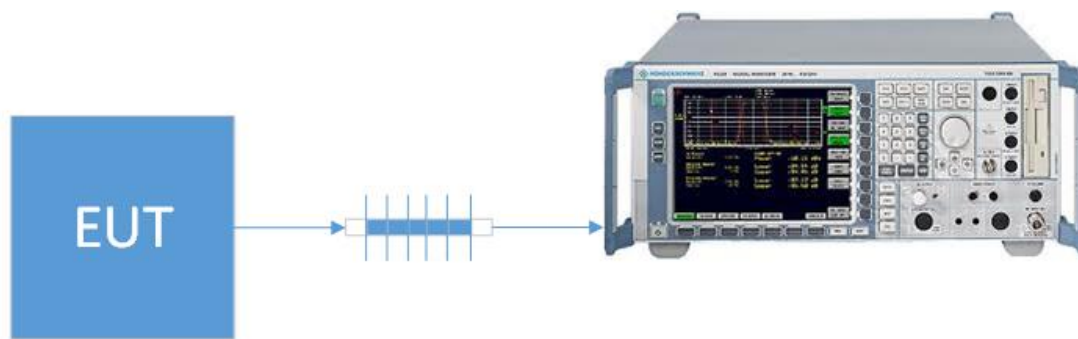
POWER SPECTRAL DENSITY

Rules Part No.: FCC 15.247(e), IC RSS 247 § 5.2.2

Requirements: The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Method: ANSI C63.10 § 11.2 Power Limits, definitions, and device configuration
ANSI C63.10 § 11.10.2 Maximum PSD in the fundamental- Method PKPSD

Setup:



POWER SPECTRAL DENSITY

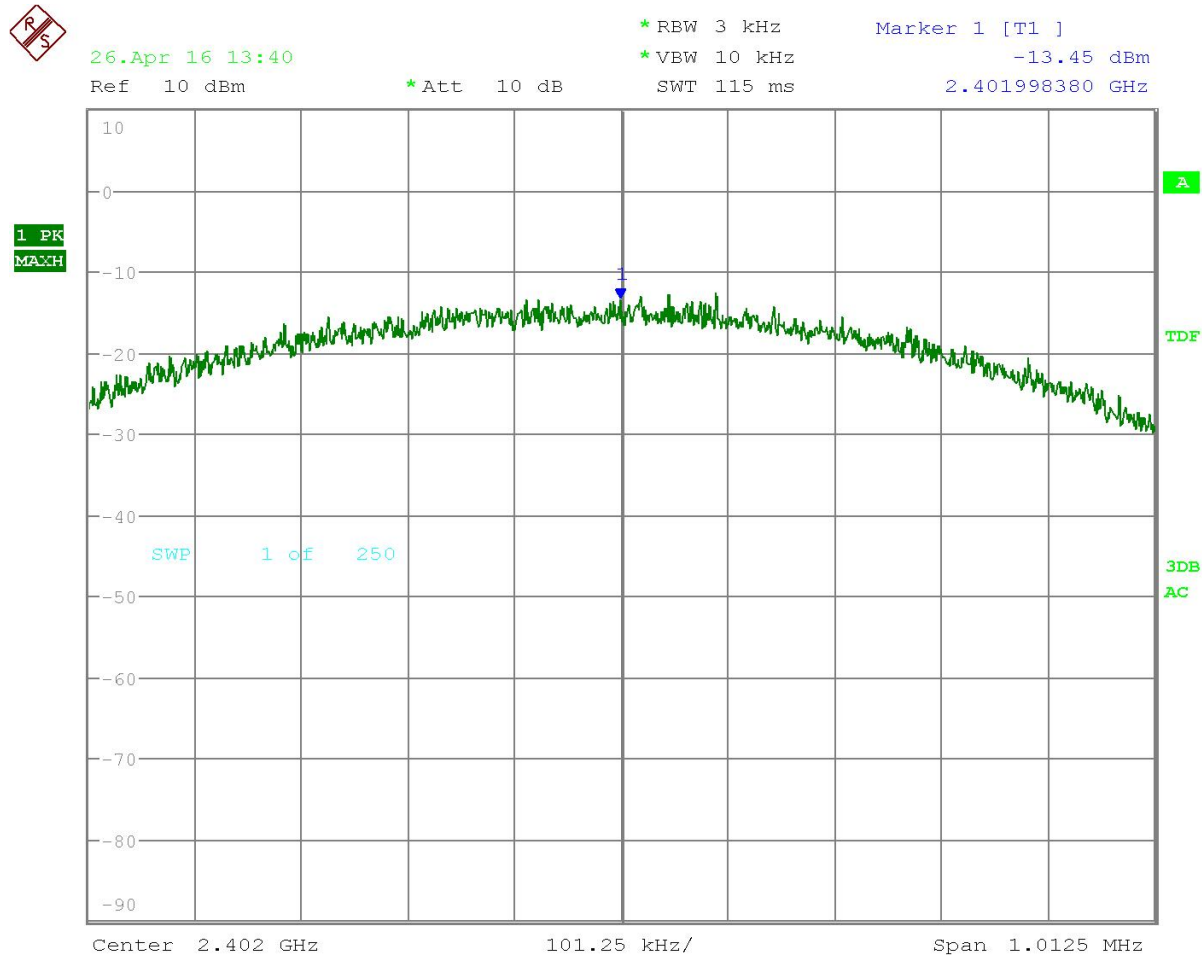
Test Data: Power Spectral Density Measurement Table

Peak Conducted Power Spectral Density			
Tuned Frequency (MHz)	Level (dBm/3KHz)	Limit (dBm/3KHz)	Margin (dB)
2402	-13.45	8.00	21.45
2442	-12.81	8.00	20.81
2480	-13.42	8.00	21.42

RESULTS: Meets Requirements

POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Low End of Band



Date: 26.APR.2016 13:40:46

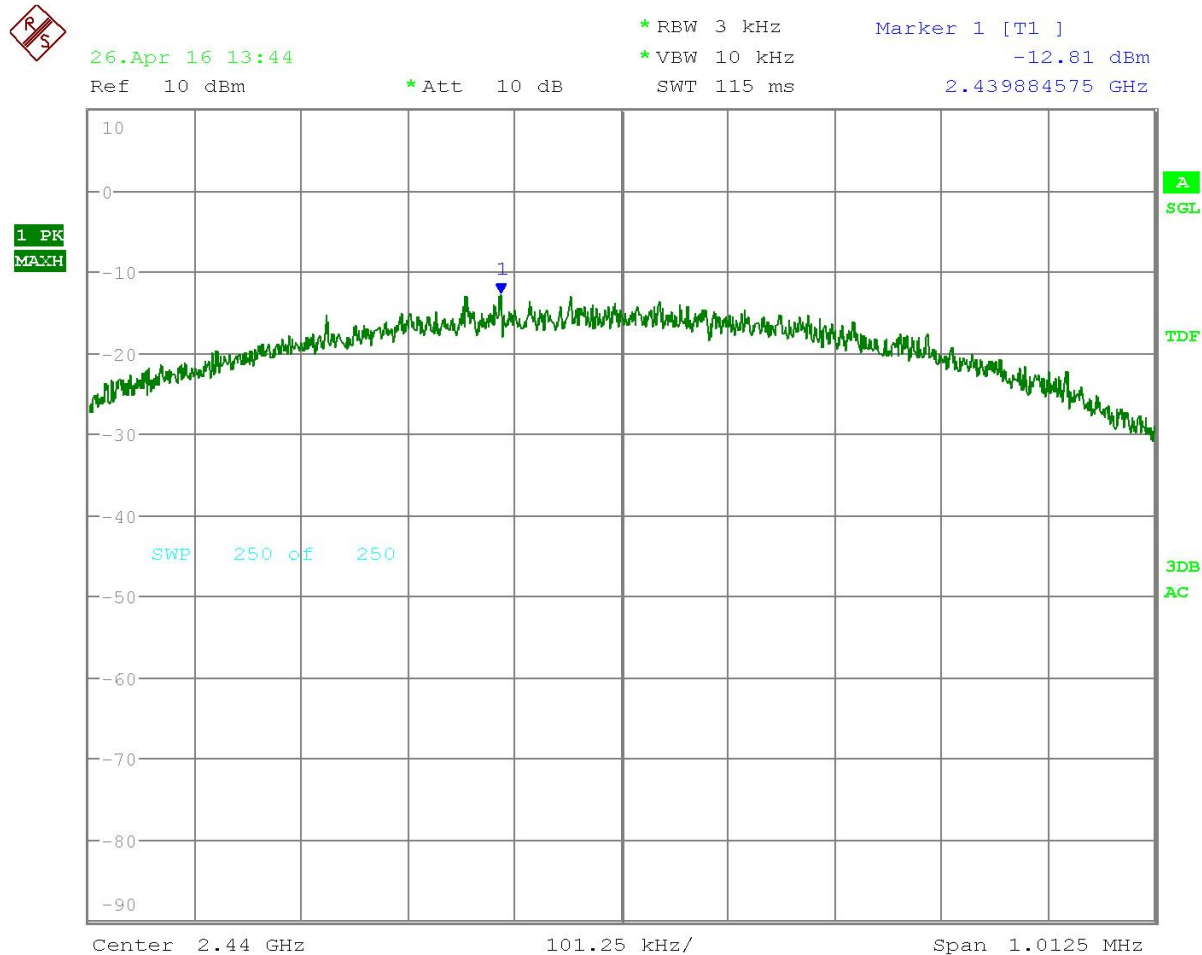
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Middle of Band



Date: 26.APR.2016 13:44:14

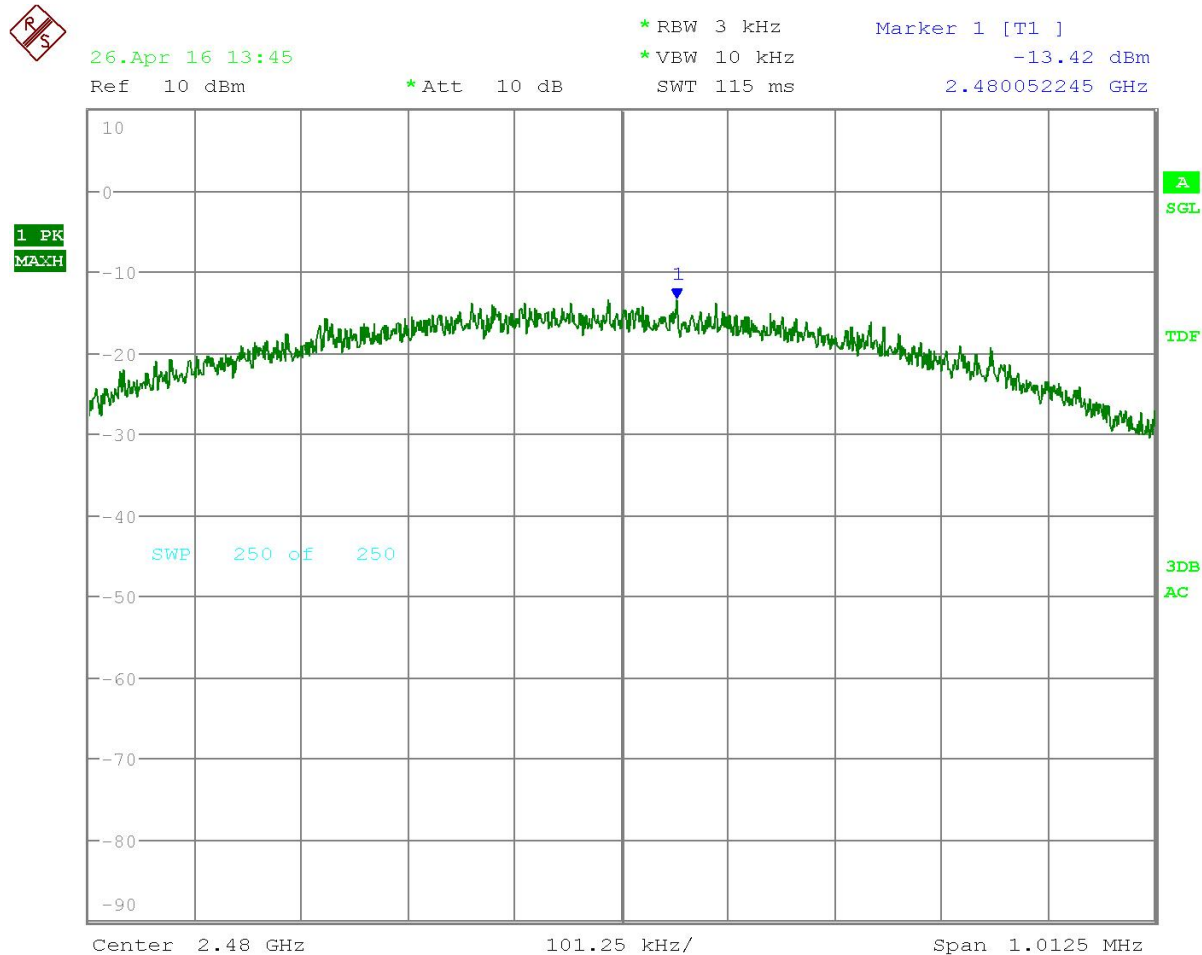
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot High End of Band



Date: 26.APR.2016 13:45:04

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

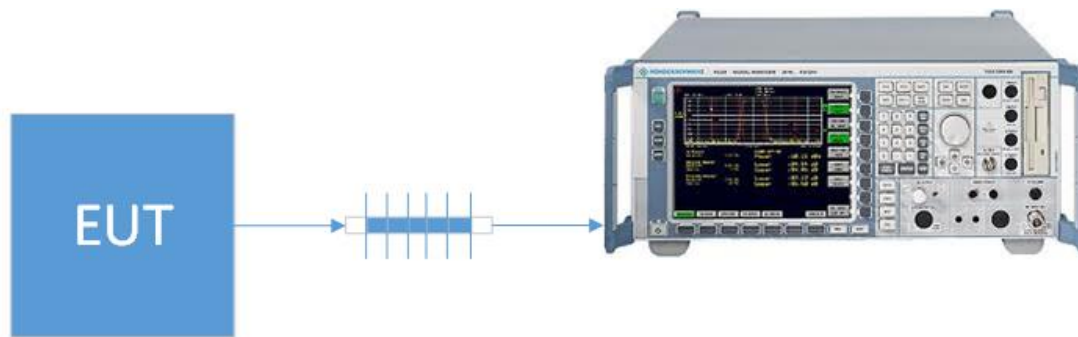
OCCUPIED BANDWIDTH

Rules Part No.: FCC 15.215 (c), IC RSS GEN § 6.6

Requirements: The 20 dB Bandwidth shall remain inside the band of operation.
The 99% Bandwidth is for reporting only.

Test Method: ANSI C63.10 § 6.9.2 Occupied Bandwidth- Relative procedure
ANSI C63.10 § 6.9.3 Occupied Bandwidth- 99% Power Bandwidth procedure

Setup:



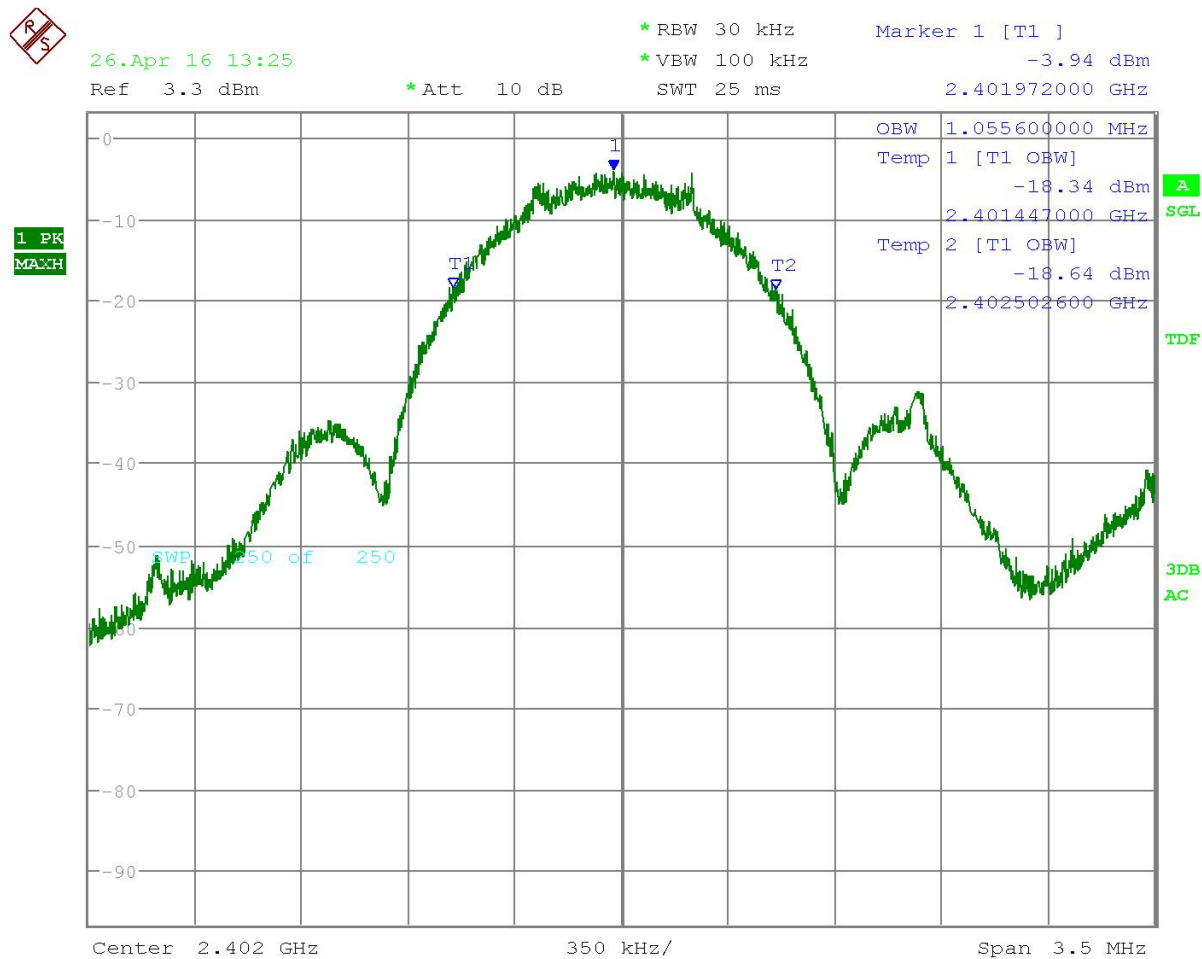
Test Data: Occupied Bandwidth Measurement Table

Tuned Frequency (MHz)	99 % BW (MHz)
2402	1.055
2442	1.057
2480	1.058

RESULTS: Meets Requirements

OCCUPIED BANDWIDTH

Test Data: 99 % Bandwidth Plot Low End of Band



Date: 26.APR.2016 13:25:19

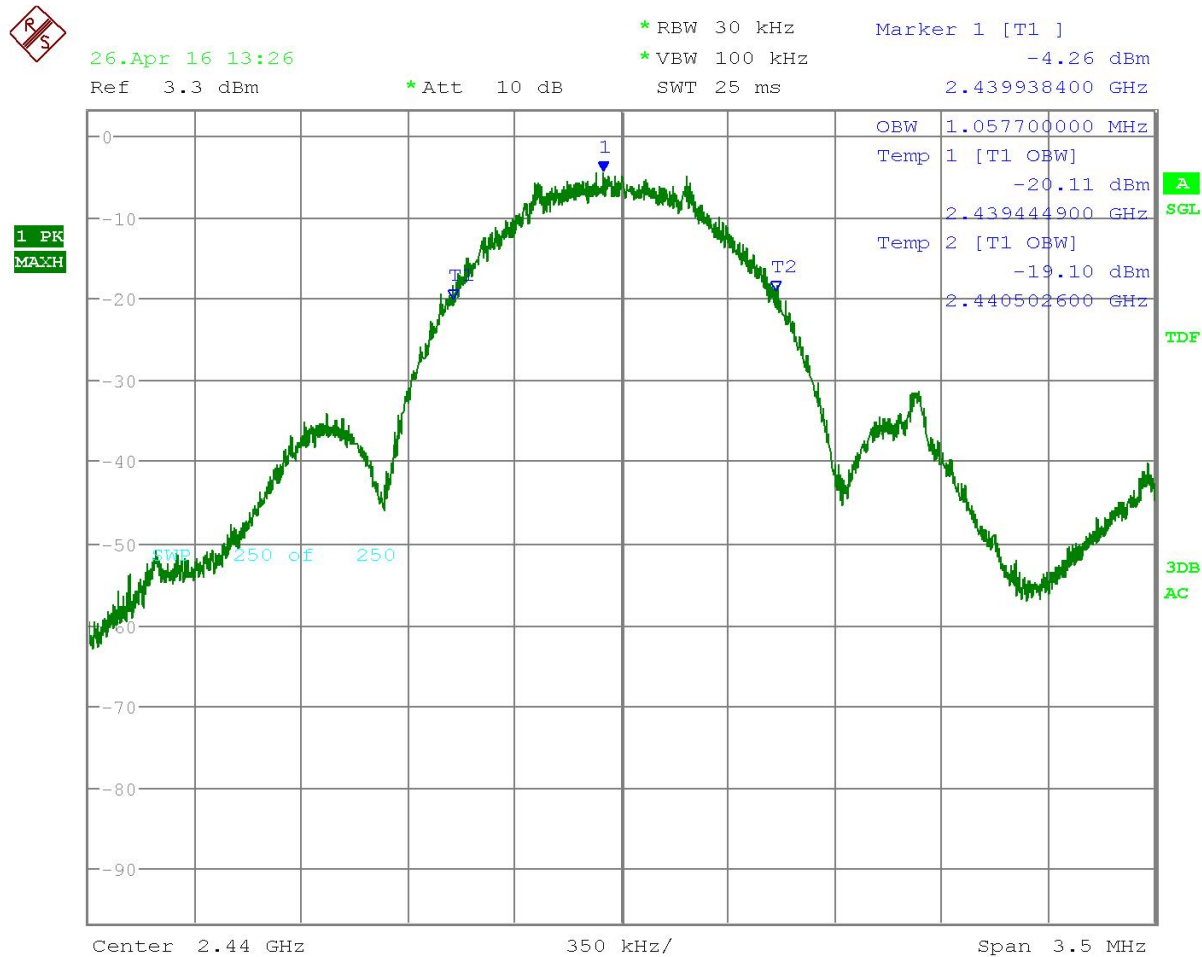
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

OCCUPIED BANDWIDTH

Test Data: 99 % Bandwidth Plot Middle of Band



Date: 26.APR.2016 13:26:33

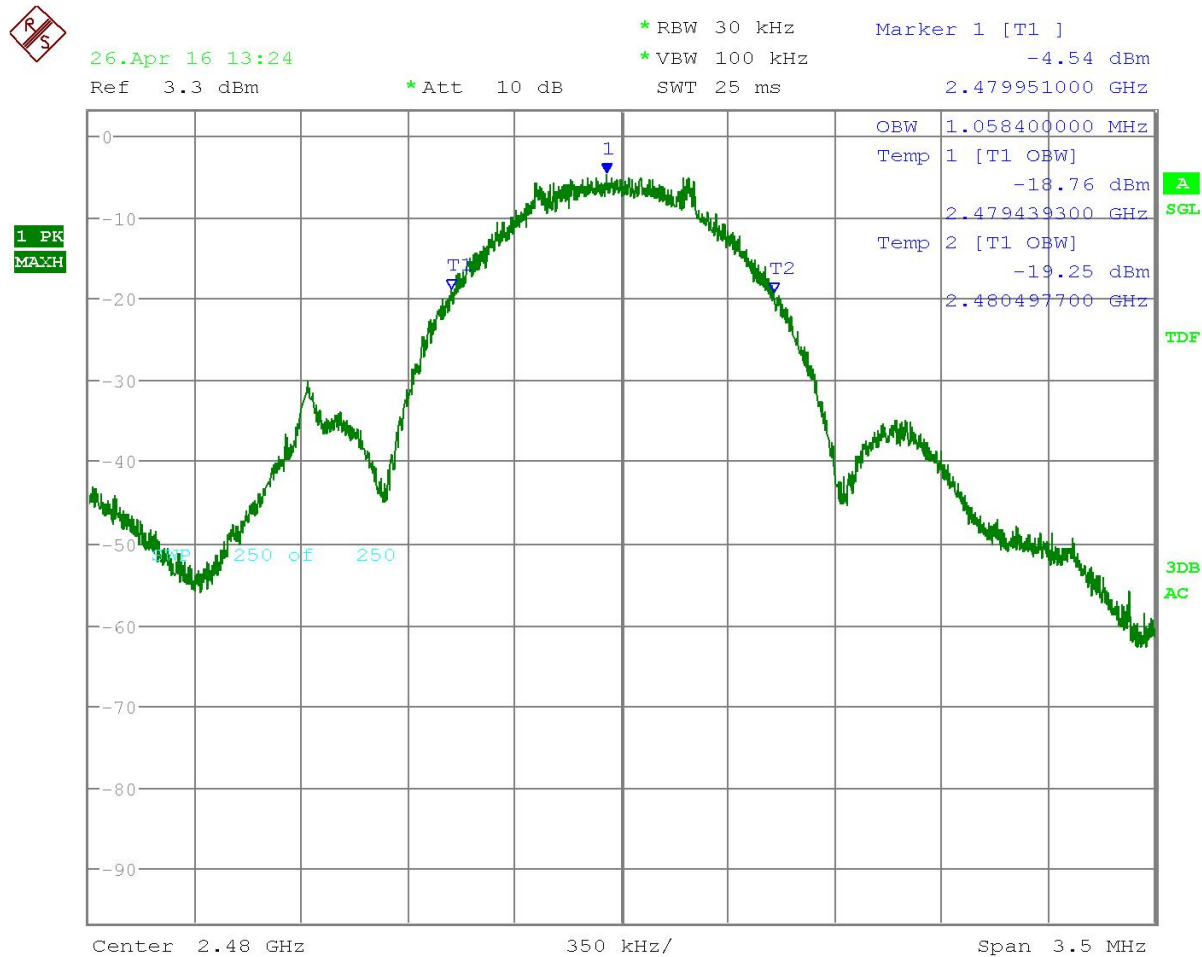
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

OCCUPIED BANDWIDTH

Test Data: 99 % Bandwidth Plot High end of Band



Date: 26.APR.2016 13:24:05

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

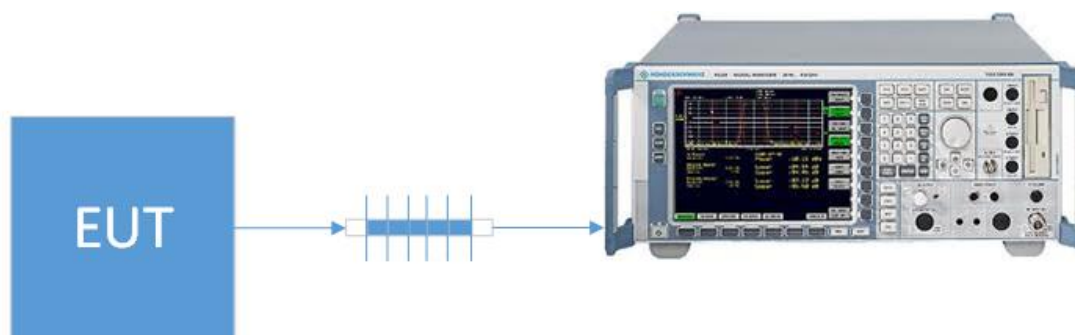
BANDEDGE

Rule Part No.: FCC 15.247(d), IC RSS 247 § 5.5

Requirements: Emissions must be at least 20dB down from the highest emission level Within the authorized band as measured with a 100 kHz RBW.

Test Method: ANSI C63.10 § 6.10.4 Authorized band-edge relative method (non-restricted)
ANSI C63.10 § 6.10.6 Marker Delta Method (restricted band edge)

Setup:



Test Data: Bandedge Measurement Table

Upper Adjacent Restricted Bandedge Marker Delta Method Calculation					
Peak / Average	Field Strength of Carrier (dBuV/m)	Emission Level Below Carrier (dB)	Field Strength of Emission (dBuV/m)	Emission Limit (dBuV/m)	Margin (dB)
Peak	97.39	53.50	43.89	74	30.11
Average	96.25	53.50	42.75	54	11.25

Lower Authorized Band Edge Measurement			
Tuned Frequency (MHz)	Band Edge Level (dBc)	Limit (dBc)	Margin (dB)
2402	50.01	≥20	30.01

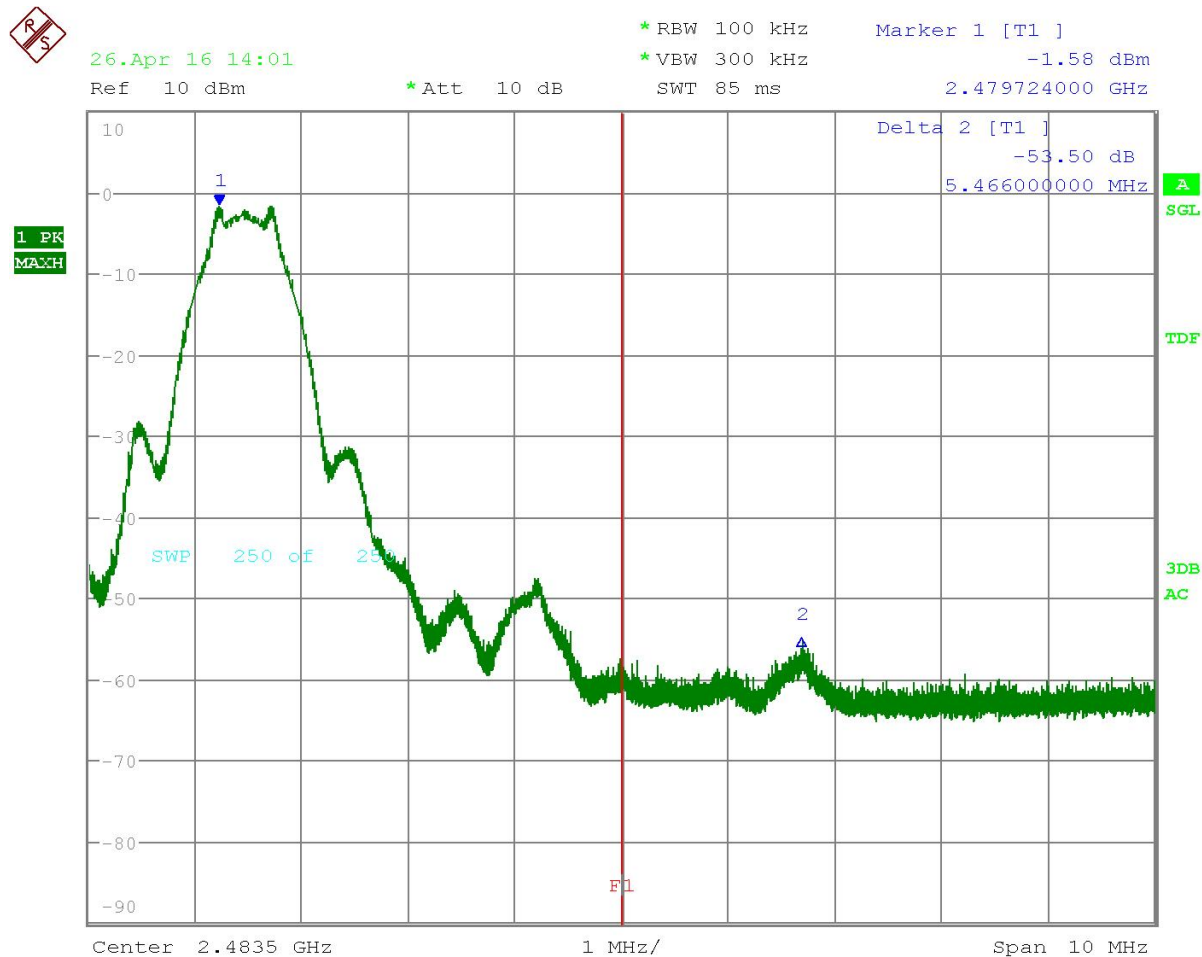
Results Meet Requirements

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

BANDEDGE

Test Data: Upper Adjacent Restricted Band Edge Plot



Date: 26.APR.2016 14:01:13

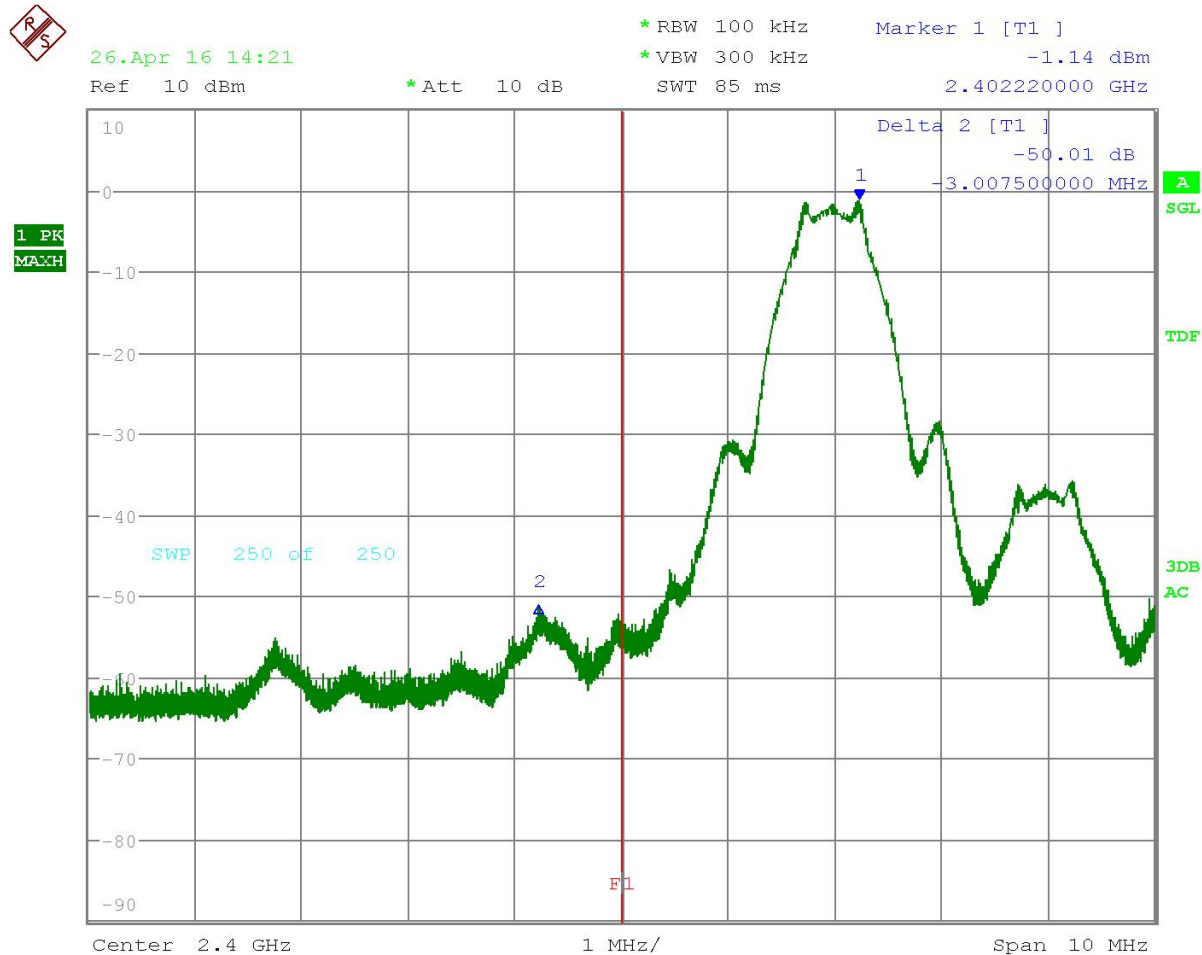
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

BANDEDGE

Test Data: Lower Authorized Band Edge Plot



Date: 26.APR.2016 14:21:47

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

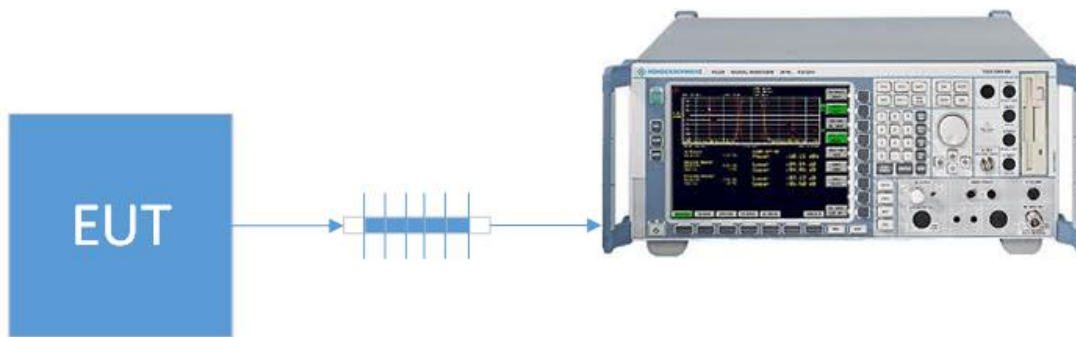
ANTENNA CONDUCTED SPURIOUS EMISSIONS

Rules Part No.: FCC part 15.247 (d) & 15.209, IC RSS 247 § 5.5 & RSS GEN § 8.9

Requirements: 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

Test Method: ANSI C63.10 § 11.11.1 General Information
ANSI C63.10 § 11.11.2 Reference level measurement
ANSI C63.10 § 11.11.3 Emission level measurement

Setup:



Test Data: Antenna Conducted Spurious Emissions Measurement Table

Tuned Freq (MHz)	Reference Level (dBm)	Emission Freq (MHz)	Read Level (dBm)	Level Below Carrier (dBc)	Limit (dBc)	Margin (dB)
2402	-1.44	84.93	-61.63	60.19	20	40.2
		4804.26	-57.77	56.33	20	36.3
		7206.37	-54.62	53.18	20	33.2
2440		124.88	-57.06	55.62	20	35.6
		2372.18	-60.35	58.91	20	38.9
		2502.03	-54.79	53.35	20	33.4
2480		164.83	-55.83	54.39	20	34.4
		2352.21	-71.53	70.09	20	50.1
		2512.01	-59.44	58.00	20	38.0

Results Met Requirements

Applicant: ADHERIUM (NZ) LTD.
FCC ID: PN2-SYM1
IC: 20509-SYM1
Report: 655AUT16TestReport_Rev1

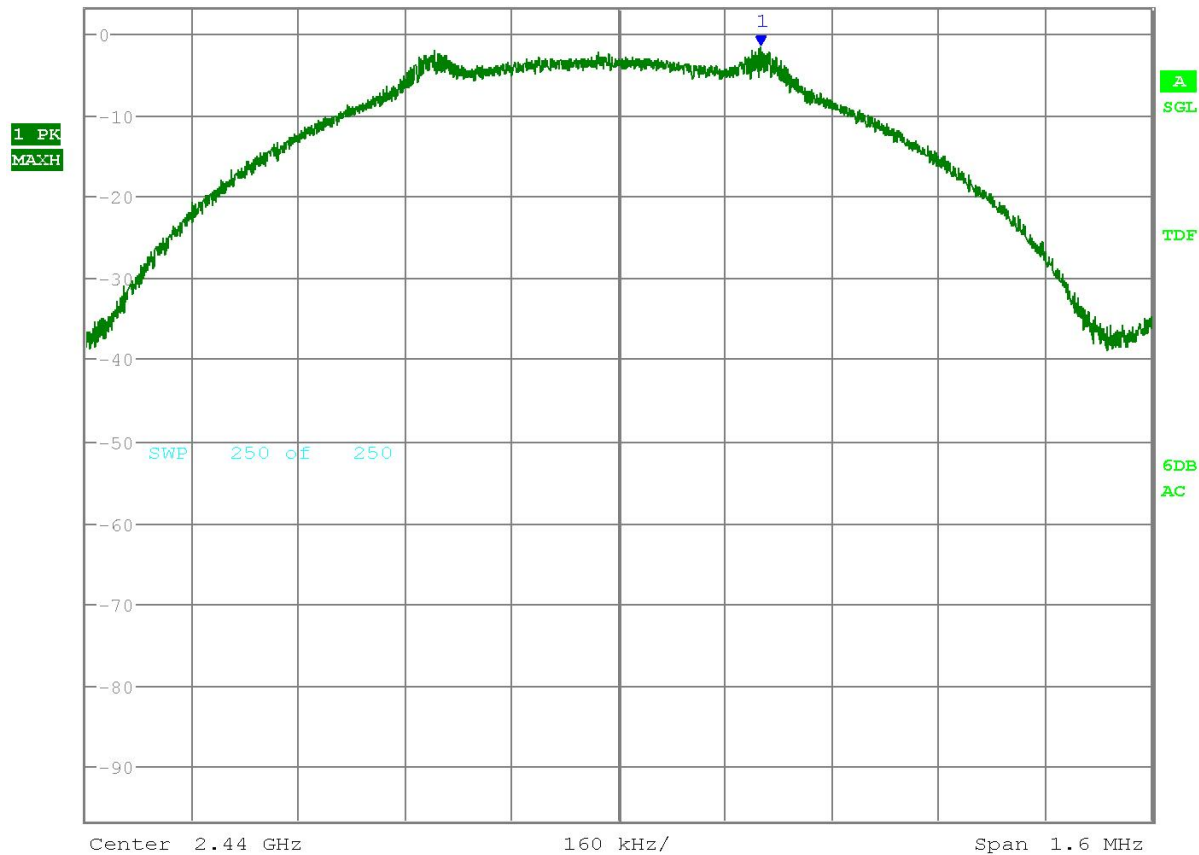
[Table of Contents](#)

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: 100 KHz Reference Level Plot



26.Apr 16 14:32
 Ref 3.3 dBm *Att 10 dB SWT 25 ms
 *RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz -1.44 dBm
 2.440212480 GHz



Date: 26.APR.2016 14:32:26

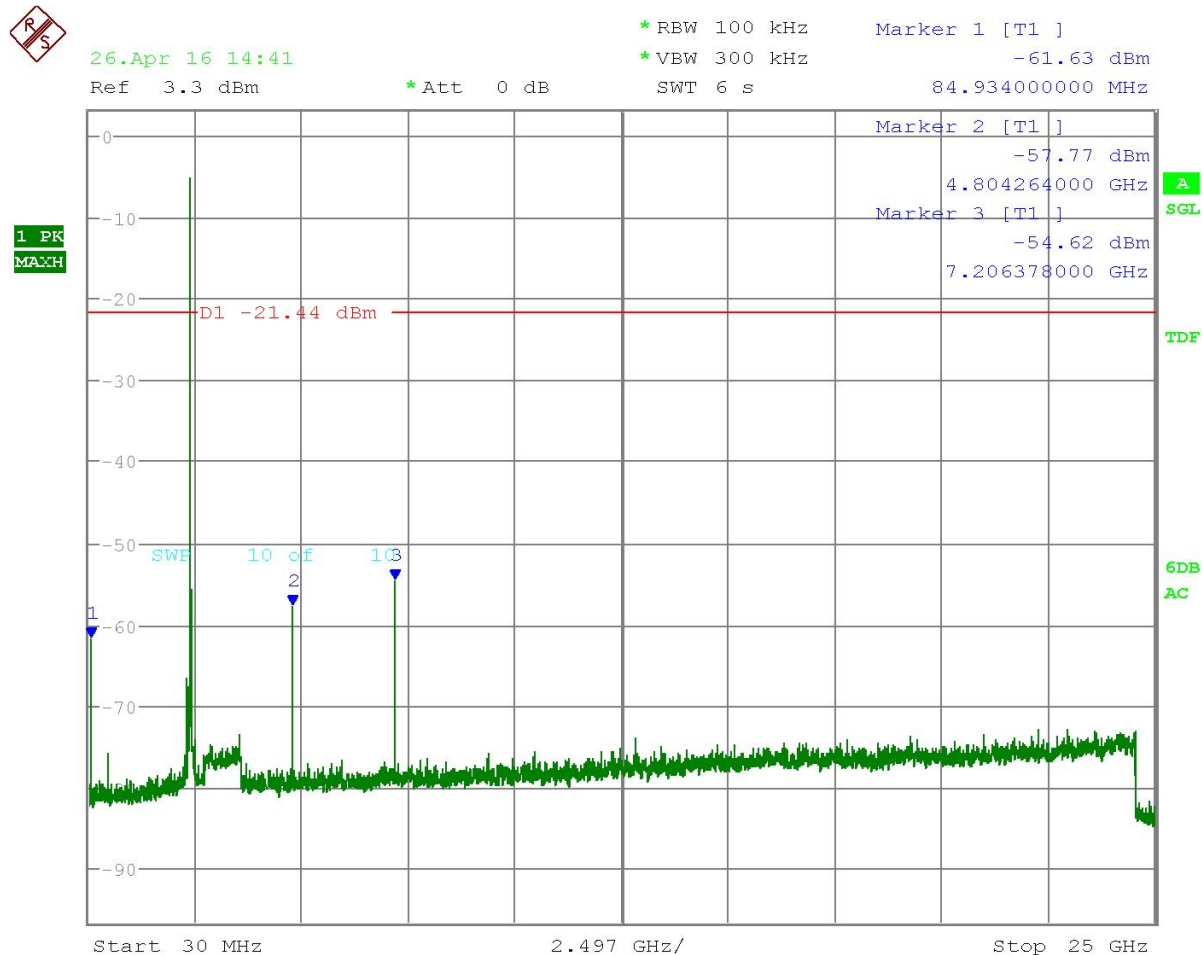
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Low End of Band 30 MHz – 25 GHz Plot



Date: 26.APR.2016 14:41:01

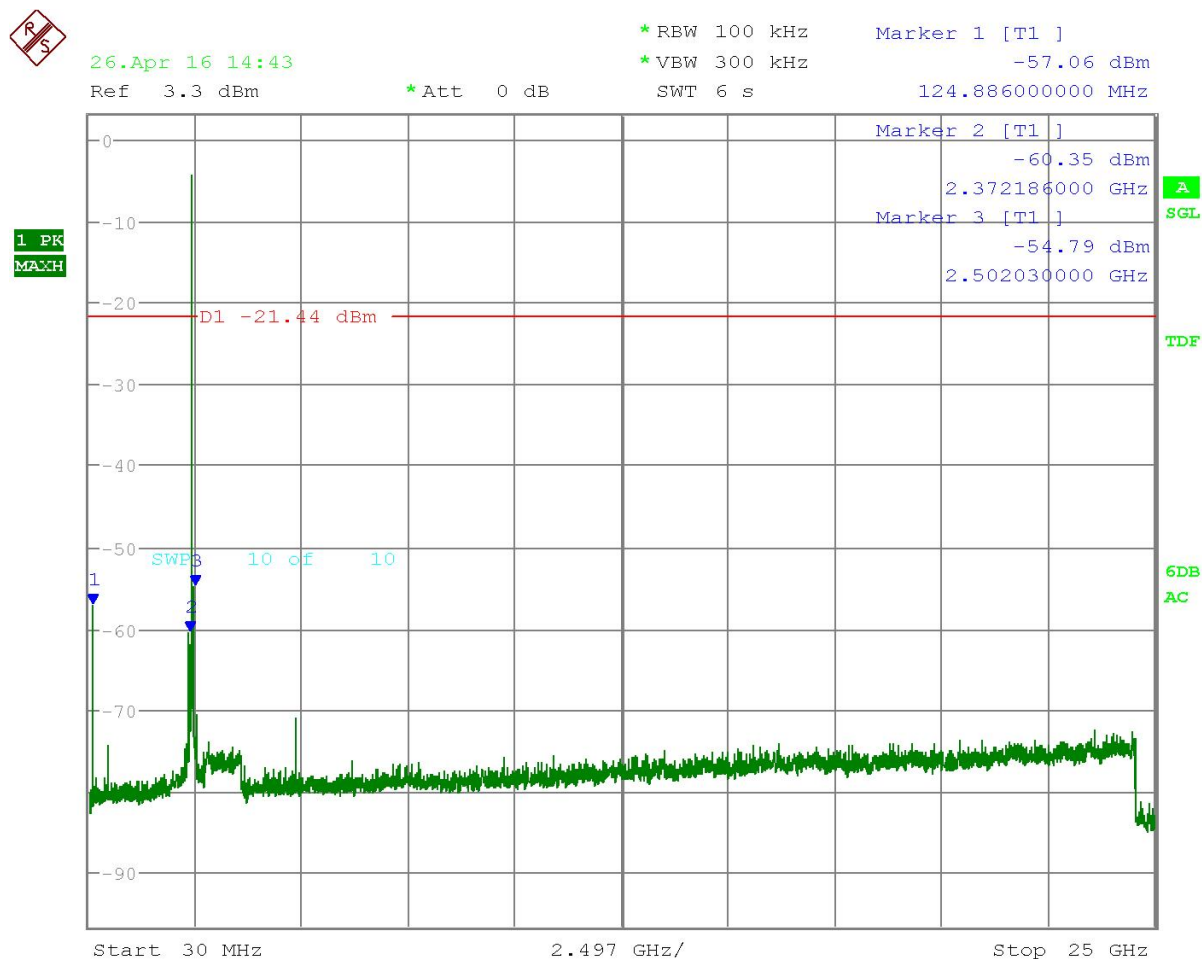
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz – 25 GHz Plot



Date: 26.APR.2016 14:43:26

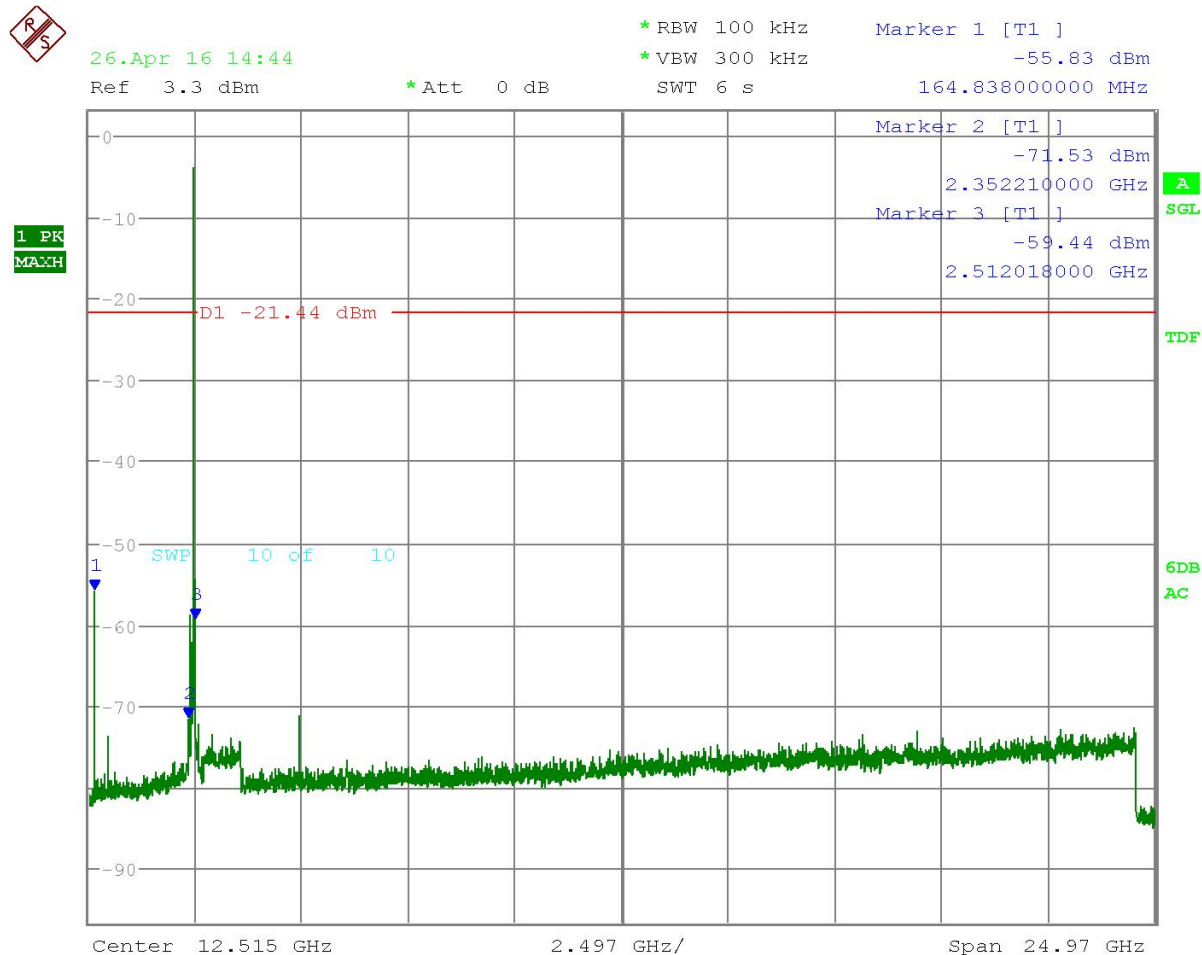
RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: High End of Band 30 MHz – 25 GHz Plot



Date: 26.APR.2016 14:44:57

RESULTS: Meets Requirements

Applicant: ADHERIUM (NZ) LTD.
 FCC ID: PN2-SYM1
 IC: 20509-SYM1
 Report: 655AUT16TestReport_Rev1

[Table of Contents](#)

RADIATED SPURIOUS EMISSIONS

Rules Part No.: FCC part 15.247 (d) & 15.209, IC RSS 247 § 5.5 & RSS GEN § 8.9

Requirements: 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

In addition, Emissions found in restricted bands of FCC Part 15.205 must comply with the general limits found in FCC part 15.209

Frequency	Limits
FCC Part 15.209, IC RSS-GEN 8.9	
9 to 490 kHz	2400/F (kHz) μ V/m @ 300 meters
490 to 1705 kHz	24000/F (kHz) μ V/m @ 30 meters
1705 kHz to 30 MHz	29.54 dB μ V/m @ 30 meters
30 – 88	40.0 dB μ V/m @ 3 meters
80 – 216	43.5 dB μ V/m @ 3 meters
216 – 960	46.0 dB μ V/m @ 3 meters
Above 960	54.0 dB μ V/m @ 3 meters

Test Method: ANSI C63.4 § Annex D Validation of radiated emissions standard test sites
 ANSI C63.10 § 6.3 Common requirements radiated emissions
 ANSI C63.10 § 6.4 Emissions below 30 MHz
 ANSI C63.10 § 6.5 Emissions between 30 & 1000 MHz
 ANSI C63.10 § 6.6 Emissions above 1 GHz

Field Strength Calculation:

The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer plus the coax loss. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

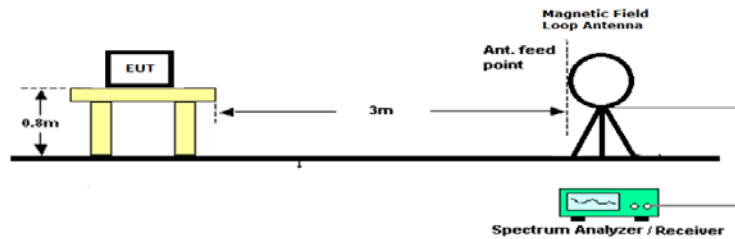
Freq (MHz)	Meter Reading	+ ACF	+ CL = FS
33	20 dB μ V	+ 10.36 dB	+ 0.5 = 30.86 dB μ V/m @ 3m

Notes: Only emissions within 20dB of the limit are reported from 9 KHz to 25 GHz

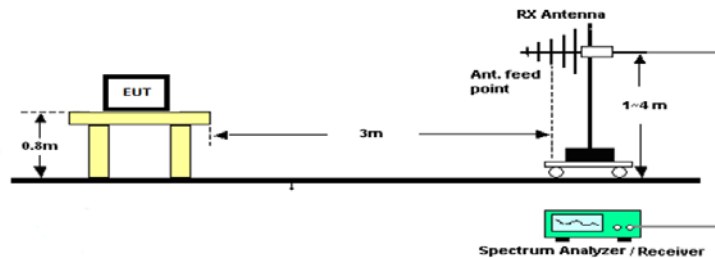
RADIATED SPURIOUS EMISSIONS

Setup:

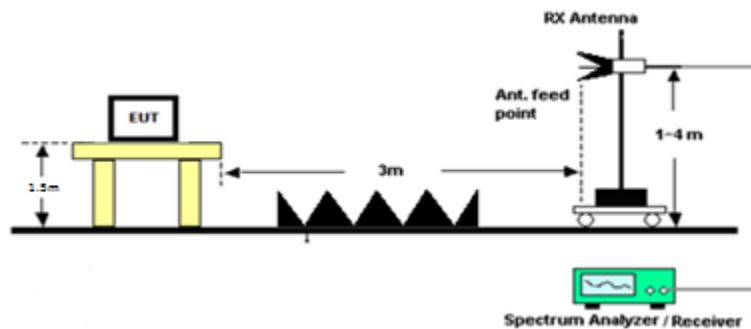
Emissions below 30 MHz



Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

Test Data: Restricted Band Emissions Field Strength table

Tuned Freq (MHz)	Emission Freq (MHz)	Detector Type (QP/PK/AV)	Meter Reading (dBuV)	Antenna Polarity (H/V)	Coax Loss (dB)	Correction Factor dB/M	Field Strength (dBuV/m)	Margin (dB)
2402	4804	PK	11.39	H	8.07	34	53.46	20.54
2402	4804	AV	4.71	H	8.07	34	46.78	7.22
2440	124.88	PK*	1.09	H	1.29	11.76	14.14	29.36
2440	2372.18	PK*	13.81	H	5.65	32.26	51.72	22.28
2440	2372.18	AV*	1.07	H	5.65	32.26	38.98	15.02
2440	4880	PK	10.25	H	8.13	33.92	52.3	21.7
2440	4880	AV	4.79	V	8.13	33.92	46.84	7.16
2440	7320	PK*	5.23	H	10	35.6	50.83	23.17
2440	7320	AV*	-8.56	V	10	35.6	37.04	16.96
2480	2352.21	PK*	12.11	V	5.63	32.16	49.9	24.1
2480	2352.21	AV*	1.13	V	5.63	32.16	38.92	15.08
2480	4960	PK	9.95	H	8.2	33.96	52.11	21.89
2480	4960	AV	5.43	H	8.2	33.96	47.59	6.41
2480	7440	PK*	7.32	H	10.08	35.6	53	21
2480	7440	AV*	-5.21	H	10.08	35.6	40.47	13.53

* Indicates Noise Floor

Results Meet Requirements

EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconnical 1096	Eaton	94455-1	1096	07/14/15	07/14/17
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/14/15	07/14/17
CHAMBER	Panashield	3M	N/A	04/25/16	12/13/17
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren Chamber	3117	00041534	02/25/15	02/25/17
Software: Field Strength Program	Timco	N/A	Version 4.0	N/A	N/A
Antenna: Active Loop	ETS-Lindgren	6502	00062529	11/18/15	11/18/17
Coaxial Cable #103 - K MS MS 180cm Aqua	Micro-Coax	UFB142A-0-0720-200200	225363-002	08/05/15	08/05/17
Attenuator #27 - K 6dB 2W DC-40	Narda	4768-6	1044-3	06/25/15	06/25/17
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/18
Antenna: Double-Ridged Horn 18-40 GHz	EMCO	3116	9011-2145	11/18/15	11/18/17
Coaxial Cable - Chamber 3 cable set	Micro-Coax	CHAM3PC	Chamber 3 cable set (Primary)	12/05/15	12/05/17
Pre-amp	RF-LAMBDA	RLNA00M45 GA	NA	01/04/16	01/04/18

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3