

EMC Test Report

Project Number: 4202701**Report Number:** 4202701EMC03**Revision Level:** 1**Client:** 3Si Security Systems Inc.**Equipment Under Test:** Wireless Tracking Device**Model Number:** AT170503US**FCC ID:** Q6KAT170503A**IC ID:** 5043A-AT170503A**Applicable Standards:** FCC Part 15 Subpart C, § 15.247

RSS-247, Issue 2

ANSI C63.10: 2013

RSS-GEN, Issue 4

Report issued on: 18 January 2018**Test Result:** Compliant

Tested by:



Jeremy Pickens, Senior EMC Engineer

Reviewed by:



David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(d)	RSS-247 S5.2 (1) RSS-GEN S6.6	Compliant
Transmitter Output Power	15.247(b)(3)	RSS-247 S5.4 (4)	Compliant
Power Spectral Density	15.247(e)	RSS-247 S5.2 (2)	Compliant
Conducted Spurious Emissions / Band edge	15.247(d)	RSS-247 S5.5	Compliant
Radiated Spurious Emissions / Restricted Bands	15.35(b),15.209	RSS-GEN S6.13 RSS-GEN S8.10	Compliant
Antenna Requirement	15.203	RSS-GEN S8.3	Compliant (1)
AC Powerline Conducted Emission	15.107, 15.207	RSS-GEN S8.8	NA(2)

(1) PCB trace antenna.

(2) Not Applicable: The device is battery-powered with no facility to connect to AC mains.

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Client Information

Name: 3Si Security Systems Inc.
Address: 2055 N Brown Rd, Ste 225
City, State, Zip, Country: Lawrenceville, GA 30043, USA

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

2.3 General Information of EUT

Type of Product: Wireless Tracking Device
Model Number: AT170503US
Prototype ID: P2-W (Radiated measurements)
P2-01 (Conducted measurements)

Transmit Frequency: 2412 – 2462MHz, WLAN Channels 1-11, 802.11b/g/n(HT20)
Antenna: Trace Antenna

Rated Voltage: 3.7Vdc Battery
Tested Voltage: 3.7Vdc Battery

Sample Received Date: 12 October 2017

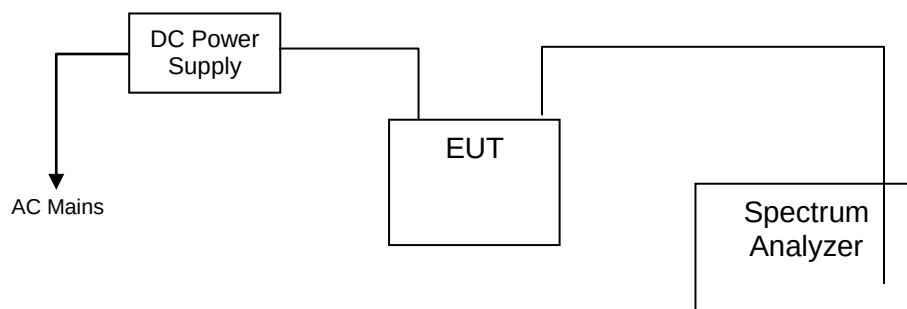
Dates of testing: 12 - 13 October 2017

2.4 Operating Modes and Conditions

For spurious emissions measurements, only the worst-case mode with respect to peak power was investigated: 802.11b, 1Mbps. Investigations covered the low, middle, and high channels in the 2400-2483.5MHz band.

Continuous traffic was generated using test commands. Where the duty cycle measured below 99% and an RMS detector was employed, corrections of $10 \cdot \log(1/D)$ were applied according to KDB publication 558074 D01 DTS Meas Guidance v04.

2.5 EUT Connection Block Diagram – Conducted Measurements



2.6 EUT Connection Block Diagram – Radiated Measurements



2.7 System Configurations

Device reference	Manufacturer	Description	Model Number	Prototype ID
A	3Si Security	Wireless Tracking Device	AT170503US	P2-W (Radiated) P2-01 (Conducted)
B	Rigol	DC Power Supply	DP711	DP7A182700833

2.8 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
None						

3 Bandwidth

3.1 Test Result

Test Description	Test Specification		Test Result
6 dB bandwidth / 99% OBW	15.247(d)	RSS-247 S5.2 (1) RSS-GEN S6.6	Compliant

3.2 Test Method

The procedures from ANSI C63.10: 2013 clause 11.8 and 558074 D01 DTS Meas Guidance v04 were used to determine the 6 dB bandwidth and 99% OBW.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

3.4 Test Equipment

Test End Date: 13-Oct-2017

Tester: JOP

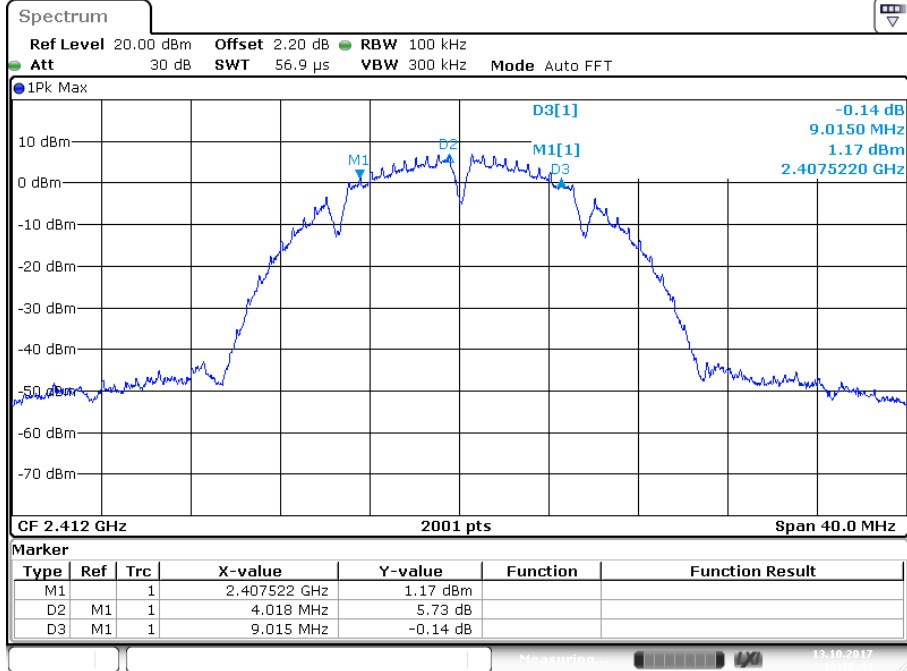
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

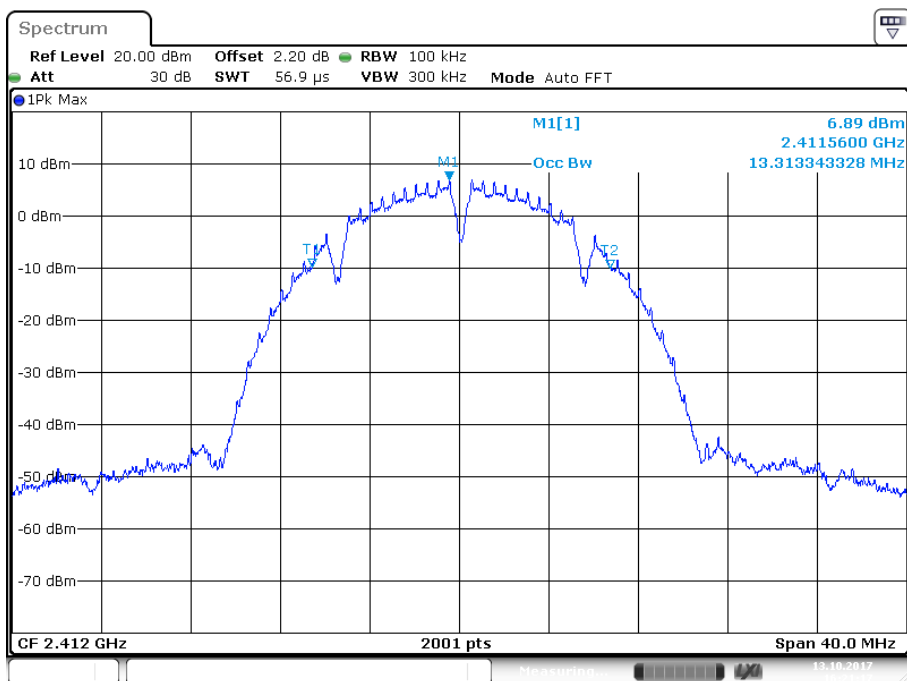
3.5 Test Data

Protocol	Channel	Data Rate	6dB Bandwidth (MHz)	Occupied Bandwidth (99%) (MHz)
802.11b	1	1 Mbps	9.015	13.313
802.11b	6	1 Mbps	9.067	13.203
802.11b	11	1 Mbps	9.092	13.14
802.11g/n (HT20)	1	MCS0	16.624	16.502
802.11g/n (HT20)	6	MCS0	16.552	16.435
802.11g/n (HT20)	11	MCS0	16.483	16.496
802.11n (HT40)	3	MCS0	36.563	36.264
802.11n (HT40)	6	MCS0	36.526	36.323
802.11n (HT40)	9	MCS0	36.567	36.282

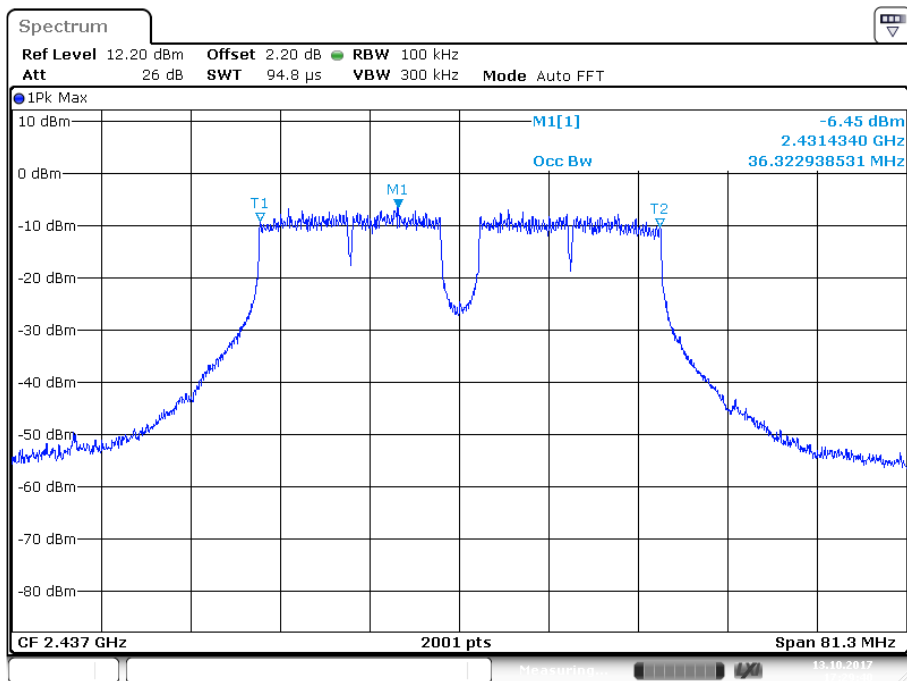
Sample Plots



Date: 13 OCT 2017 16:19:45



Date: 13 OCT 2017 16:21:17



Date: 13 OCT 2017 17:29:41

4 Output Power

4.1 Test Result

Test Description	Test Specification		Test Result
Peak Output Power	15.247(b) (3)	RSS-247 S5.4 (4)	Compliant

4.2 Test Method

Fundamental power measurements were recorded using the average power procedures from ANSI C63.10: 2013 clause 11.9 and KDB 558074 D01 Measurement Guidance v04. The lowest data rate for each modulation was found to be the worst-case.

Limit

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. For using antennas with greater than 6dBi of gain, the limit is reduced in dB by the amount the gain exceeds 6dBi (e.g. for a 7.4dBi antenna, the limit is reduced from 30dBm to 28.6dBm)

4.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

4.4 Test Equipment

Test End Date: 13-Oct-2017

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

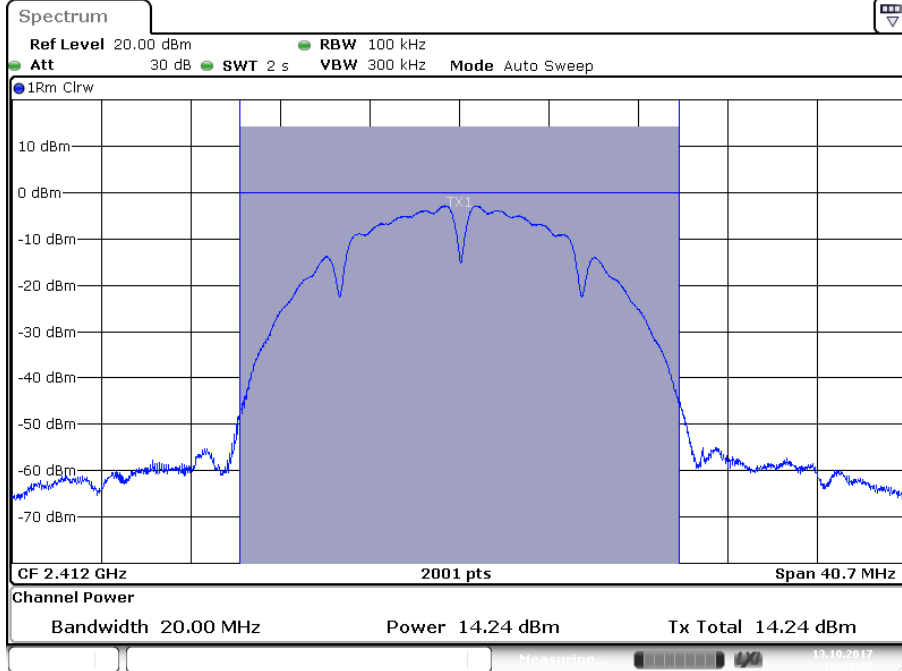
Note: The equipment calibration period is 1 year.

4.5 Test Data

Frequency	Measured Power (dBm)	Cable Loss (dB)	Average Output Power (dBm)	Average Output Power (W)
802.11b				
2412	14.1	2.2	16.3	0.043
2437	14.1	2.2	16.3	0.043
2462	14.3	2.2	16.5	0.045
802.11g/n (HT20)				
2412	9.3	2.2	11.5	0.014
2437	9.2	2.2	11.4	0.014
2462	7.8	2.2	10.0	0.010
802.11n (HT40)				
2422	6.6	2.2	8.8	0.0076
2437	6.3	2.2	8.5	0.0071
2452	5.9	2.2	8.1	0.0065

There was no discernible difference in the output power when switching between g and n modes.

Sample Plot



Date: 13 OCT 2017 16:08:38

5 Power Spectral Density

5.1 Test Result

Test Description	Test Specification		Test Result
Power Spectral Density	15.247(e)	RSS-247 S5.2 (2)	Compliant

5.2 Test Method

Fundamental power measurements were recorded using the peak PSD procedures from ANSI C63.10: 2013 clause 11.10 and KDB 558074 D01 Measurement Guidance v04. The lowest data rate for each modulation was determined to be the worst-case.

Limit

The limit is 8 dBm.

5.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

5.4 Test Equipment

Test End Date: 13-Oct-2017

Tester: JOP

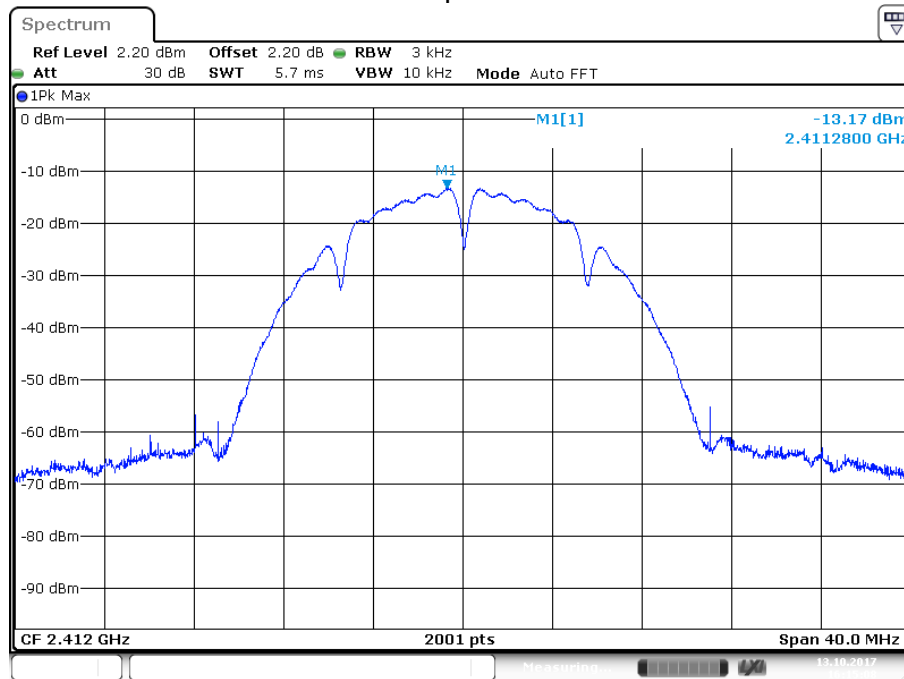
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

5.5 Test Data

Protocol	Channel	PSD (dBm)	Limit (dBm)	Margin (dB)
802.11b	1	-13.2	8	-21.20
802.11b	6	-13.4	8	-21.40
802.11b	11	-14.1	8	-22.10
(HT20)	1	-15.1	8	-23.10
(HT20)	6	-15.1	8	-23.10
(HT20)	11	-16.3	8	-24.30
802.11n (HT40)	3	-21.1	8	-29.10
802.11n (HT40)	6	-20.7	8	-28.70
802.11n (HT40)	9	-21.6	8	-29.60

Sample Plot



Date: 13 OCT 2017 16:15:08

6 Conducted Spurious Emissions

6.1 Test Result

Test Description	Test Specification		Test Result
Conducted Spurious Emissions	15.247(d)	RSS-247 S5.5	Compliant

6.2 Test Method

Spurious emissions in non-restricted frequency bands were recorded using the methods defined in ANSI C63.10: 2013 clause 11.11 and KDB 558074 D01 Measurement Guidance v04.

Lowest, middle, and highest channels were investigated. Only the worst-case (lowest data rate) for each modulation was reported.

Because the average conducted peak output power was used to determine compliance with the output power limits, the limit is 30 dB below the maximum in-band peak PSD level in 100 kHz.

6.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

6.4 Test Equipment

Test End Date: 13-Oct-2017

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

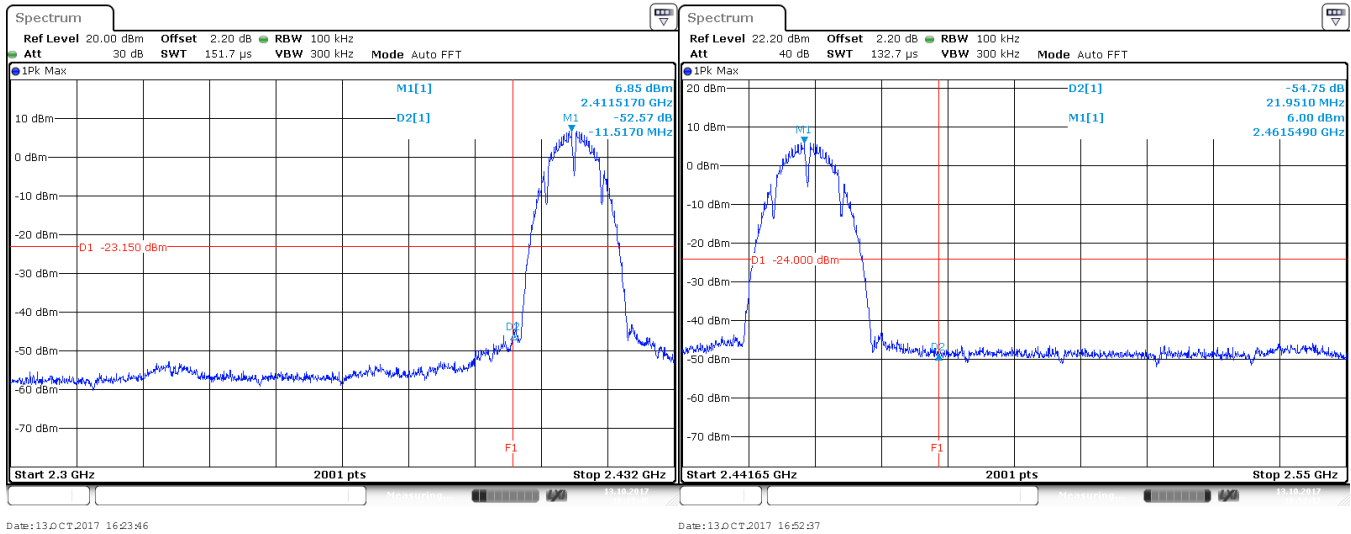
6.5 Test Data – DTS Bandedge

802.11b

Lower band edge / Upper band edge

Channel 1 / Channel 11

1Mbit/s

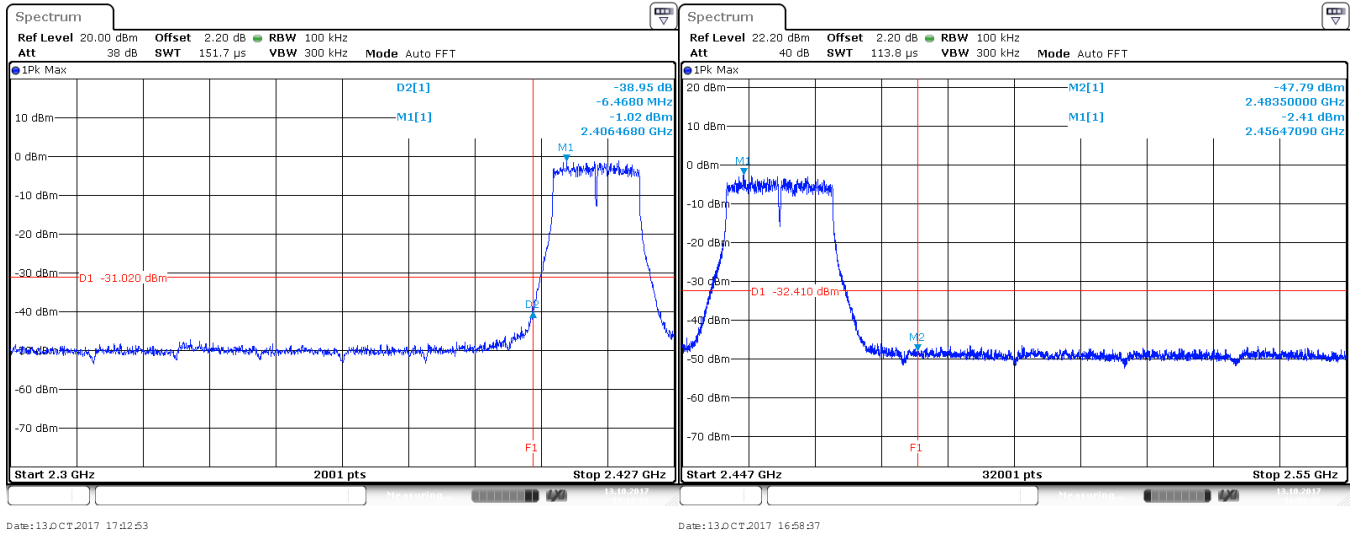


802.11g/n (HT20)

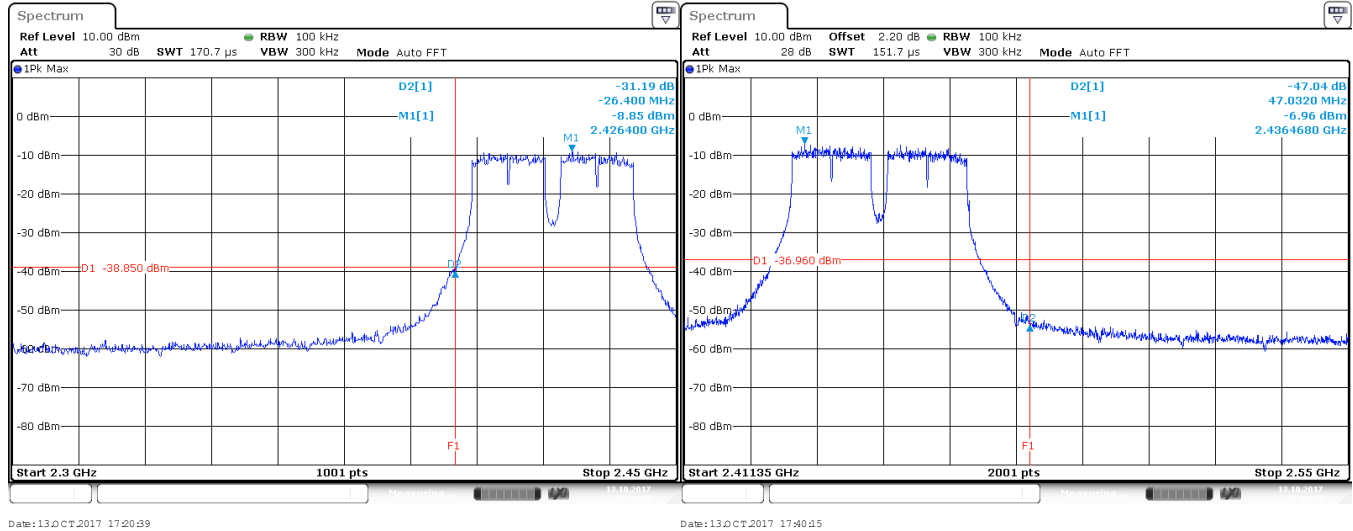
Lower band edge / Upper band edge

Channel 1 / Channel 11

MCS0

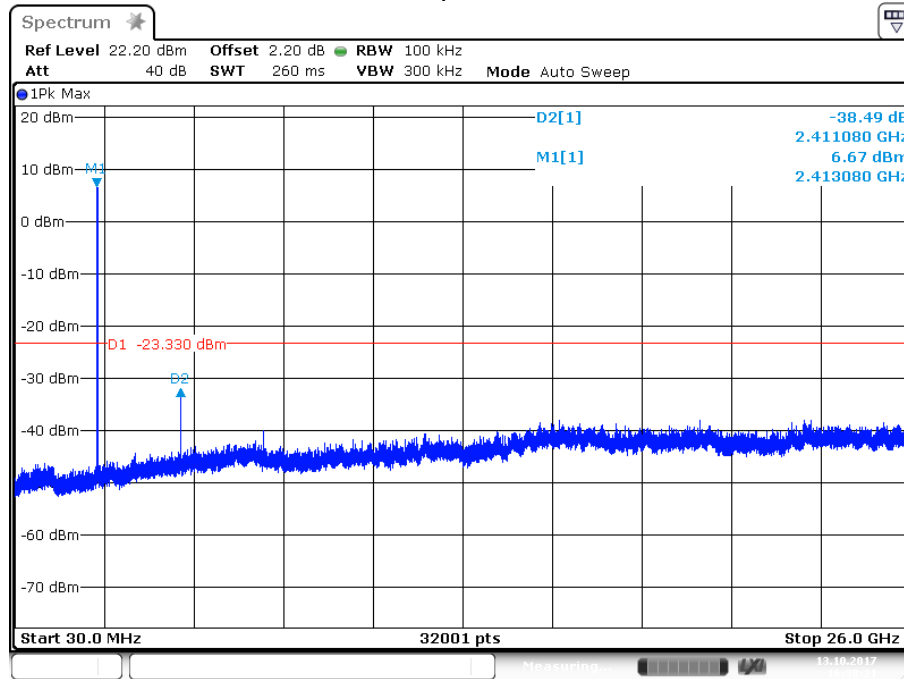


802.11n (HT40)
Lower band edge / Upper band edge
Channel 3 / Channel 9
MCS0

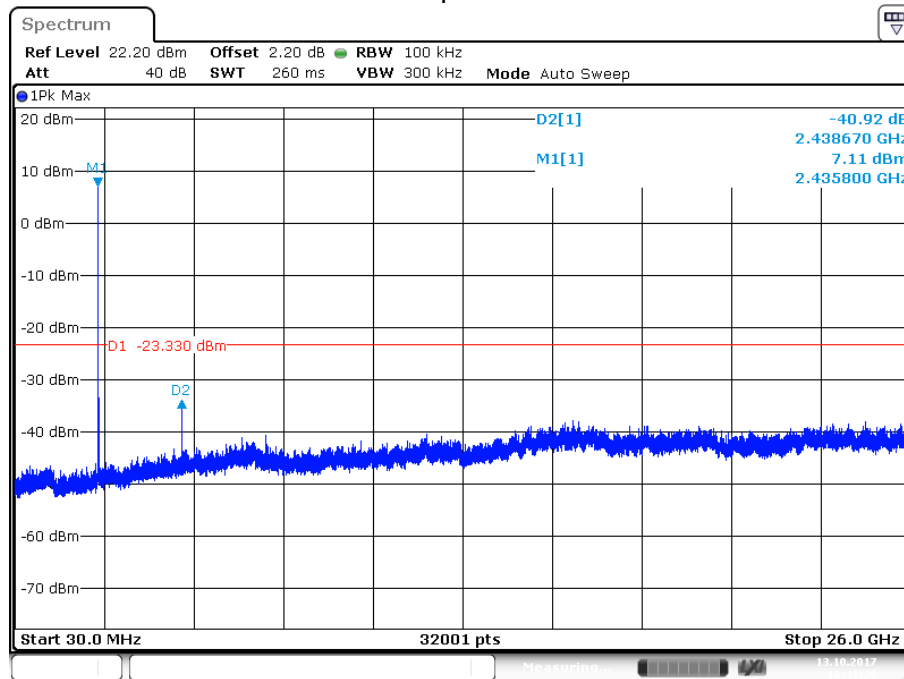


6.6 Test Data – Conducted Spurious Emissions

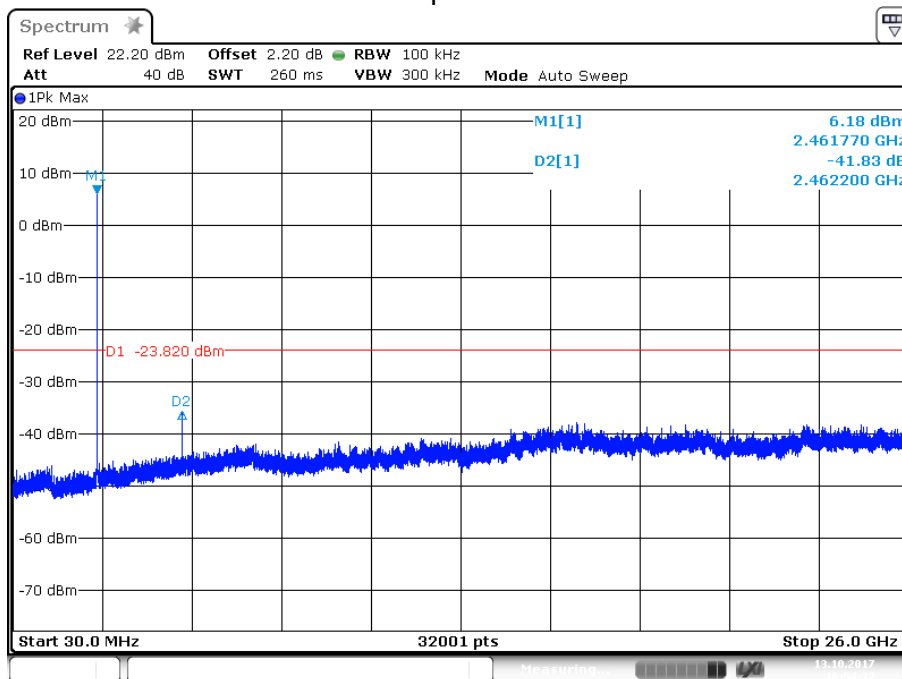
Conducted Spurs –Channel 1



Conducted Spurs –Channel 6



Conducted Spurs –Channel 11



Date: 13 OCT 2017 16:54:33

7 Field Strength of Spurious Radiation

7.1 Test Result

Test Description	Test Specification		Test Result
Spurious Emissions	15.247 (d) and 15.209	RSS-247 S5.5	Compliant

7.2 Test Method

Radiated spurious emissions measurements were recorded with the device configured to transmit at the lowest, middle, and highest channels. The frequency range investigated was up through the 10th harmonic of the fundamental transmit frequency. The methods defined in ANSI C63.10: 2013 were used.

Lowest, middle, and highest channels were investigated. Only the worst-case (802.11b, 1Mbps) was reported except at the restricted band edges where all three modulations were measured.

Test distance:

- 9k to 30 MHz – Near field prescan to determine if there were any emissions.
- 30 to 1000 MHz - The EUT to measurement antenna distance was 3 meters
- 1 to 18 GHz - The EUT to measurement antenna distance was 3 meters
- 18 to 26 GHz - The EUT to measurement antenna distance was 1 meter

Limits within restricted bands of operation:

Frequency	Limits ⁽¹⁾		Peak Limits dBuV/m
	Microvolts/m	dBuV/m	
30 - 88 MHz	100	40 ⁽²⁾	--
88 - 216 MHz	150	43.5 ⁽²⁾	--
216 - 960 MHz	200	46 ⁽²⁾	--
960 - 1000 MHz	500	54 ⁽²⁾	--
1 - 40 GHz	500	54 ⁽³⁾	74

(1) These limits are applicable to emissions outside of the intentional transmit frequency band.

(2) Quasi-peak limit

(3) Average limit

7.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

7.4 Test Equipment

Test End Date: 13-Oct-2017

Tester: JOP

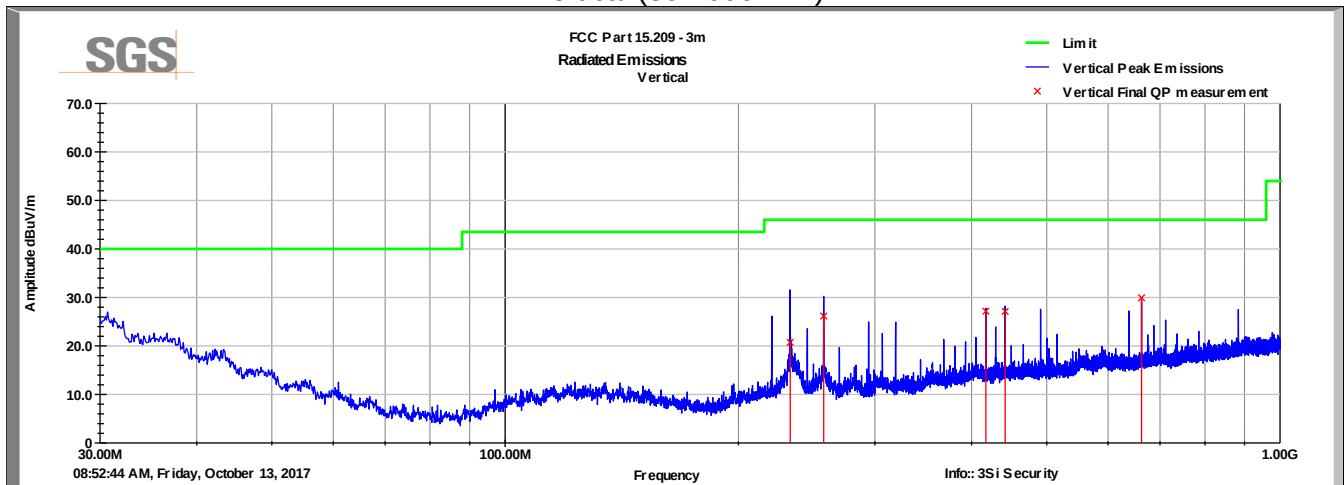
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
ANTENNA, BILOG	CBL 6143A	TESEQ	B085931	6-Dec-2017
RF CABLE	SF106	HUBER & SUHNER	B079661	25-Jul-2018
RF CABLE	SF106	HUBER & SUHNER	B079713	24-Jul-2018
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	25-Jul-2018
RF CABLE	SUCOFLEX 100	HUBER & SUHNER	B108523	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	22-Feb-2018
FILTER, HIGH PASS (>2800MHZ)	HPM50111	MICRO-TRONICS	B085747	27-Jul-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079691	27-Jul-2018
RF CABLE	SF106	HUBER & SUHNER	B079716	24-Jul-2018
HORN(SMALL)	LB-180400-20-C-KF	A-INFO	15007	21-Mar-2018
RF CABLE	SF102	HUBER & SUHNER	B079822	27-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079824	26-Jul-2018
LOW NOISE AMPLIFIER	NSP1840-HG	MITEQ	B087572	28-Jul-2018

Note: The equipment calibration period is 1 year.

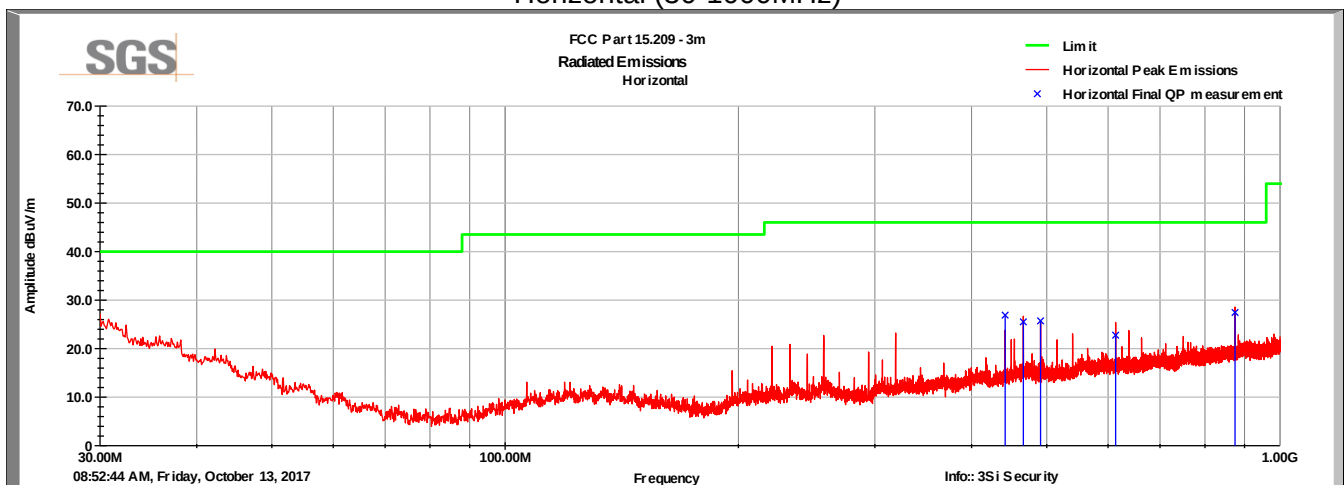
7.5 Peak Plots

No emissions were detected in the range 9kHz to 30MHz.

Channel 1
Vertical (30-1000MHz)

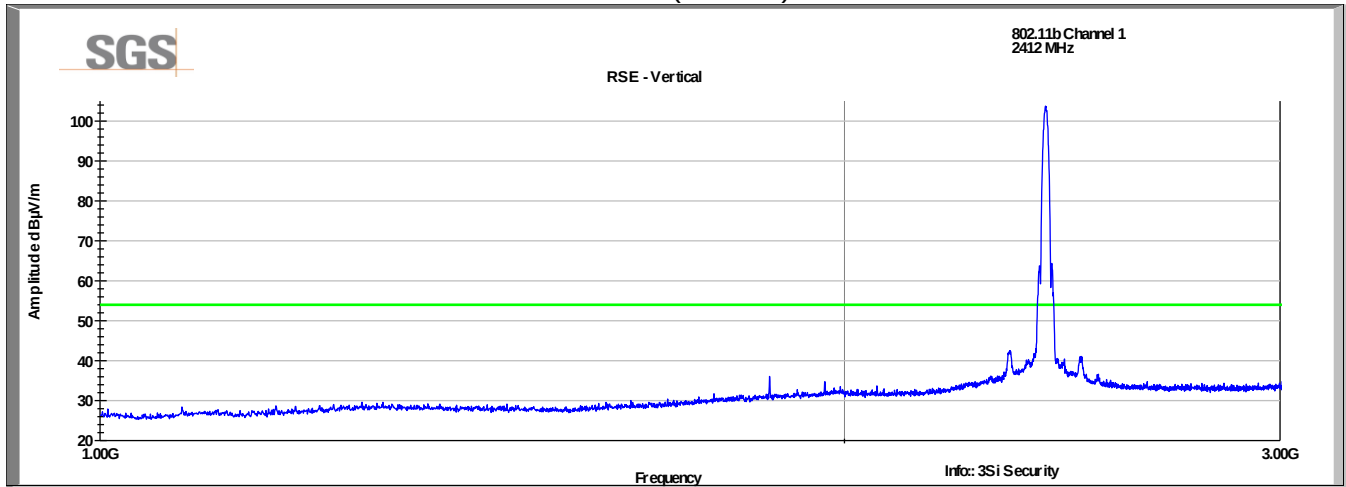


Horizontal (30-1000MHz)

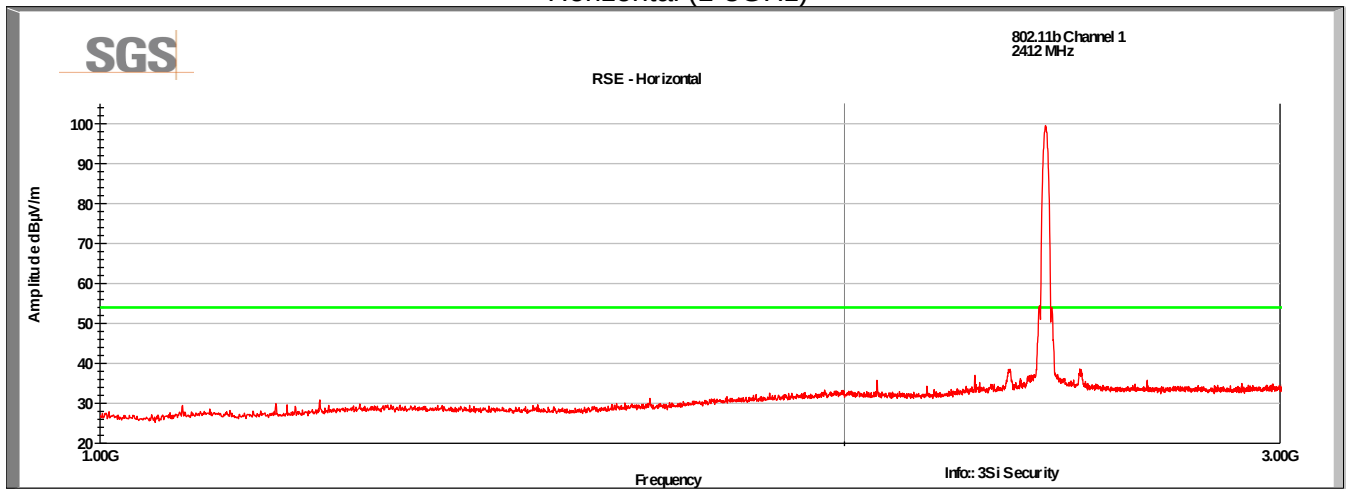


There was no discernible difference in the emissions profile below 1GHz when changing between WLAN channels.

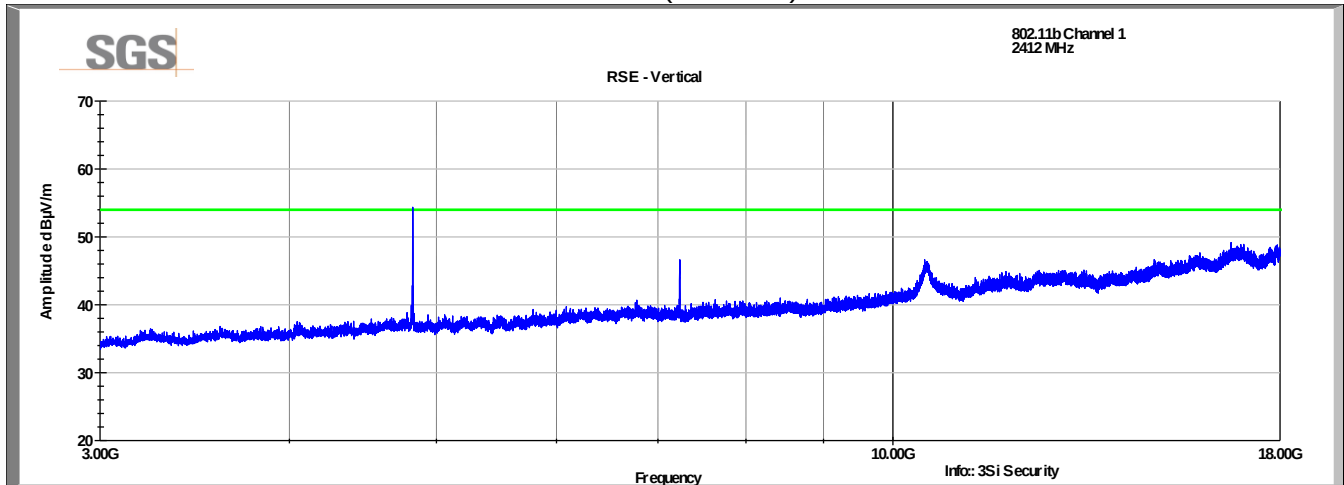
Channel 1
Vertical (1-3GHz)



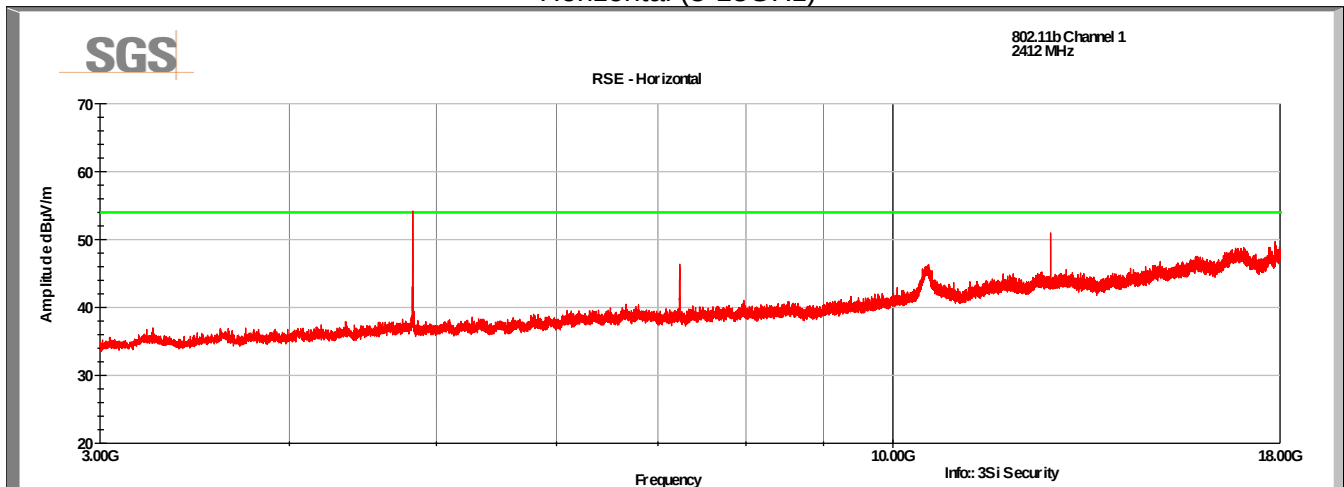
Horizontal (1-3GHz)



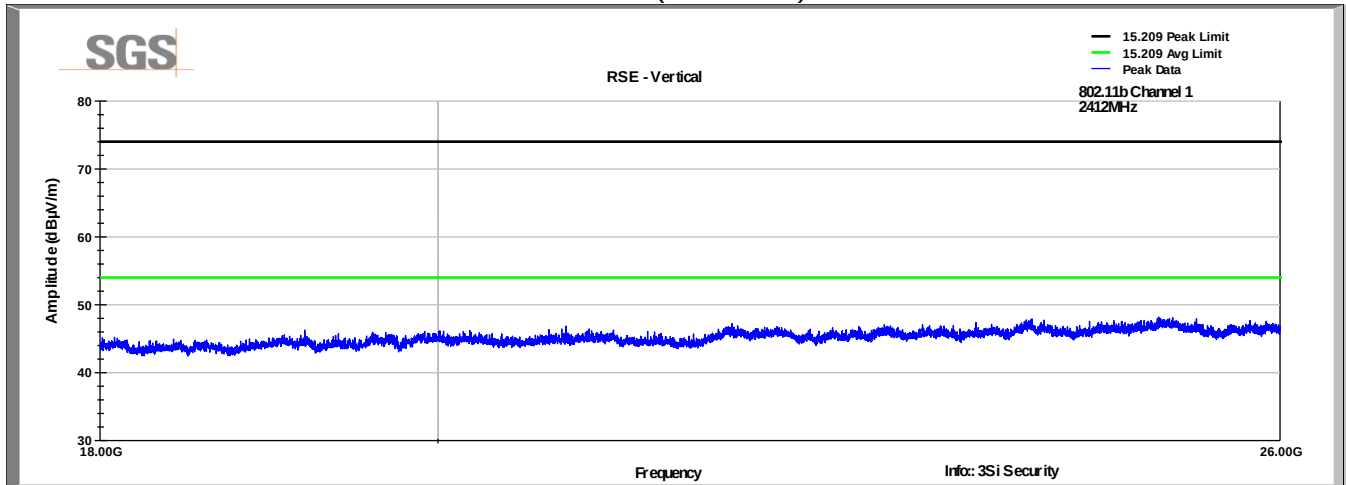
Channel 1
Vertical (3-18GHz)



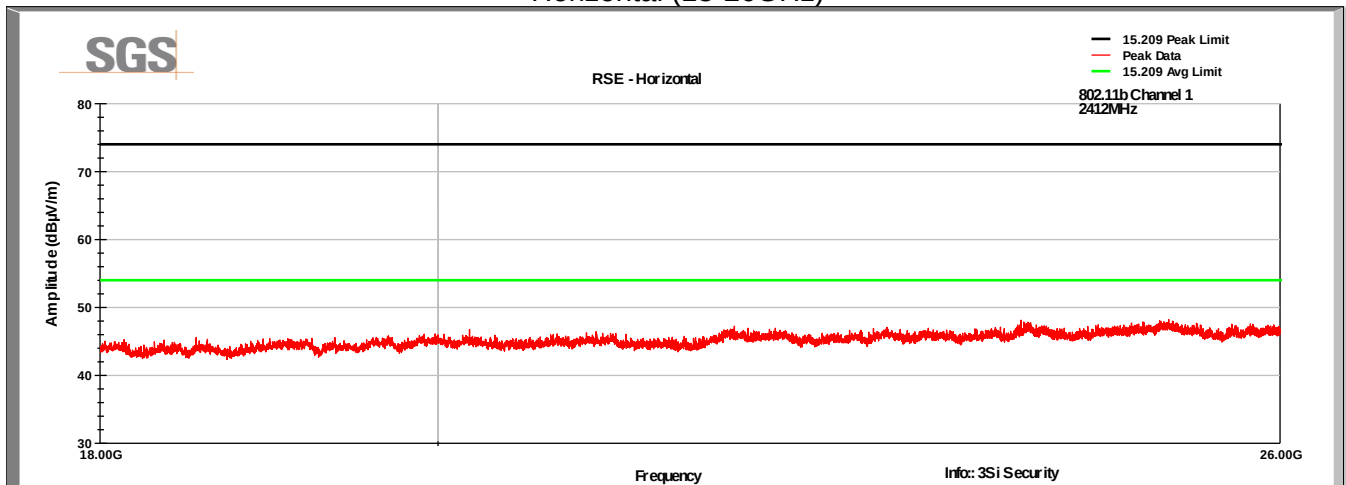
Horizontal (3-18GHz)



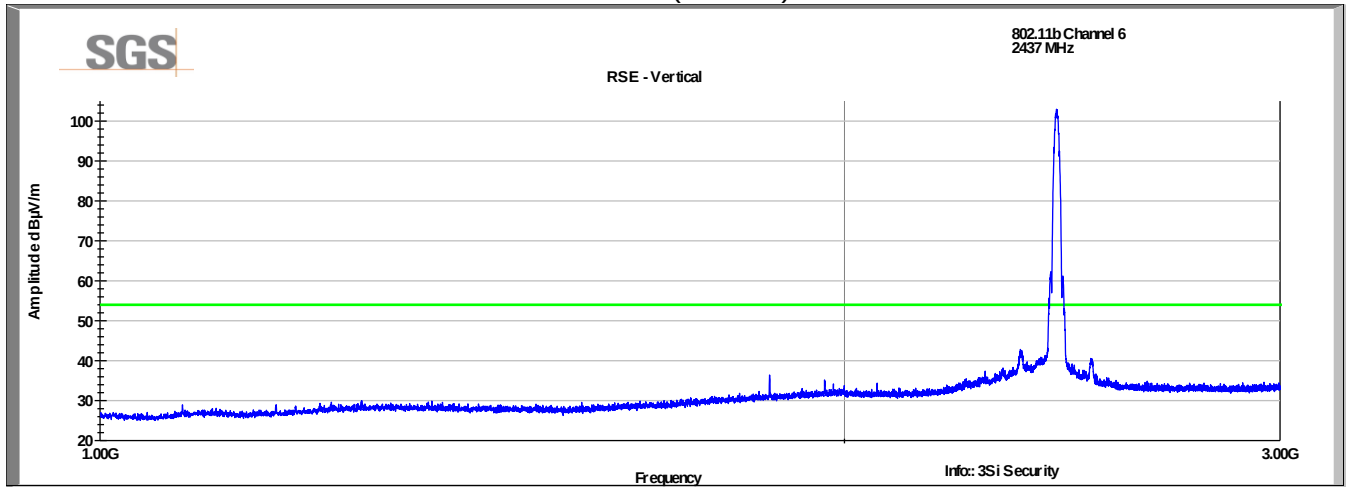
Channel 1
Vertical (18-26GHz)



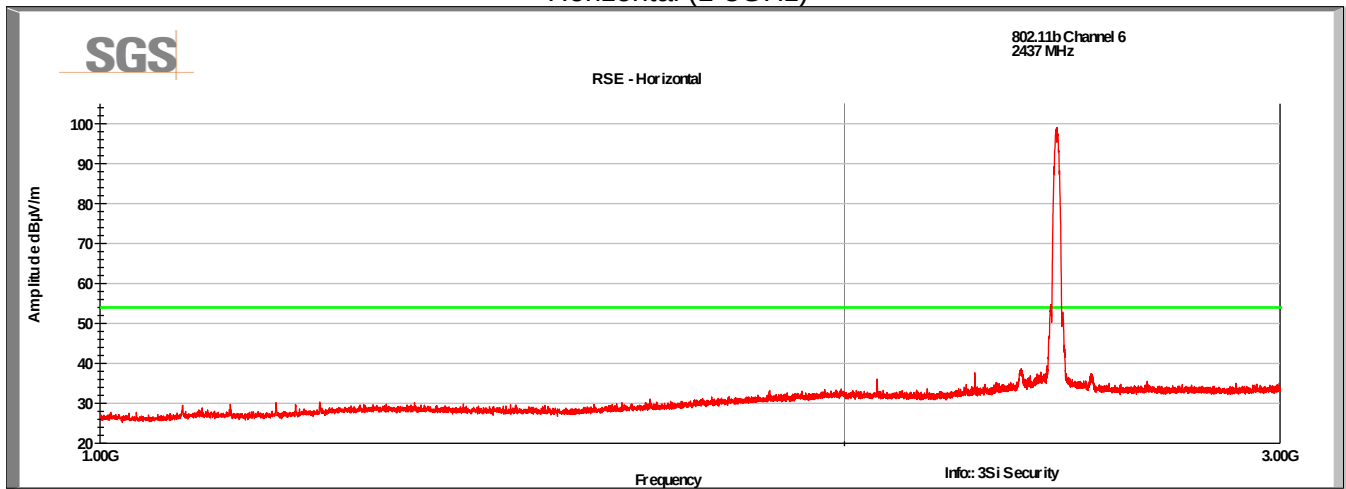
Horizontal (18-26GHz)



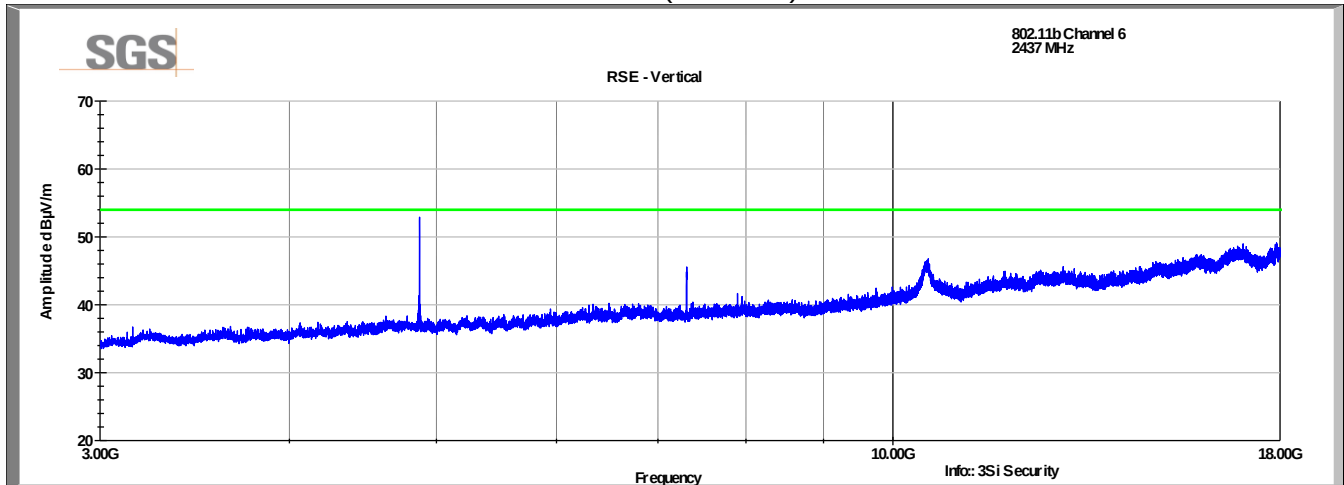
Channel 6 Vertical (1-3GHz)



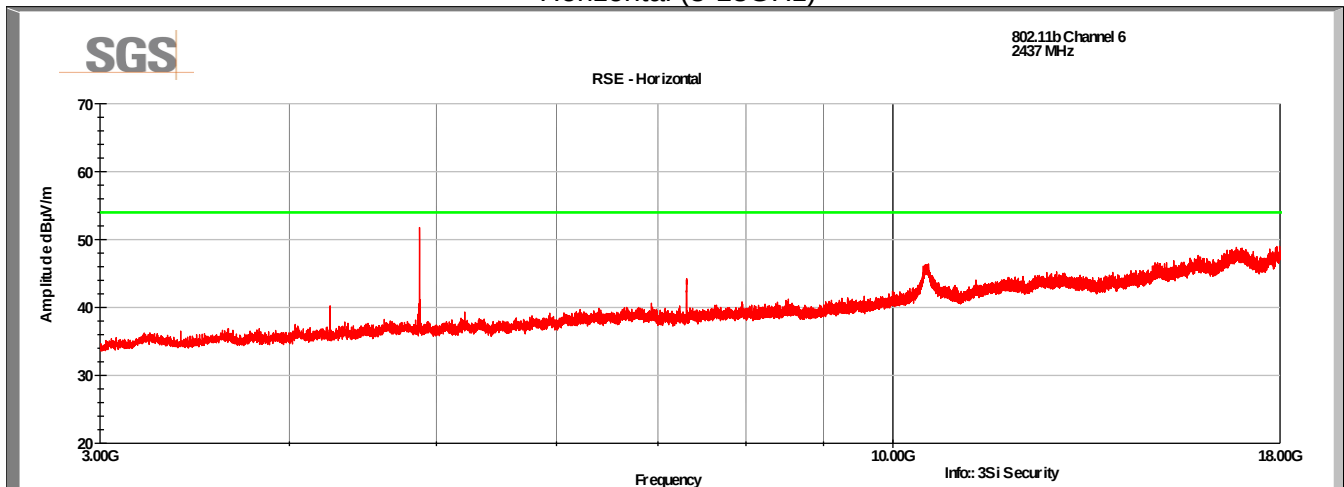
Horizontal (1-3GHz)



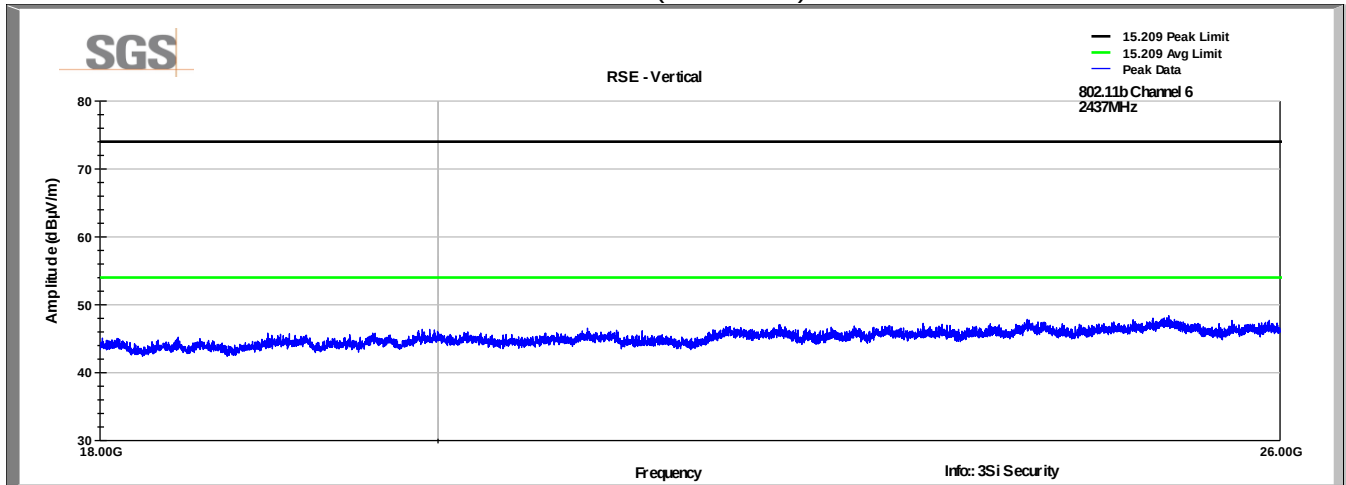
Channel 6
Vertical (3-18GHz)



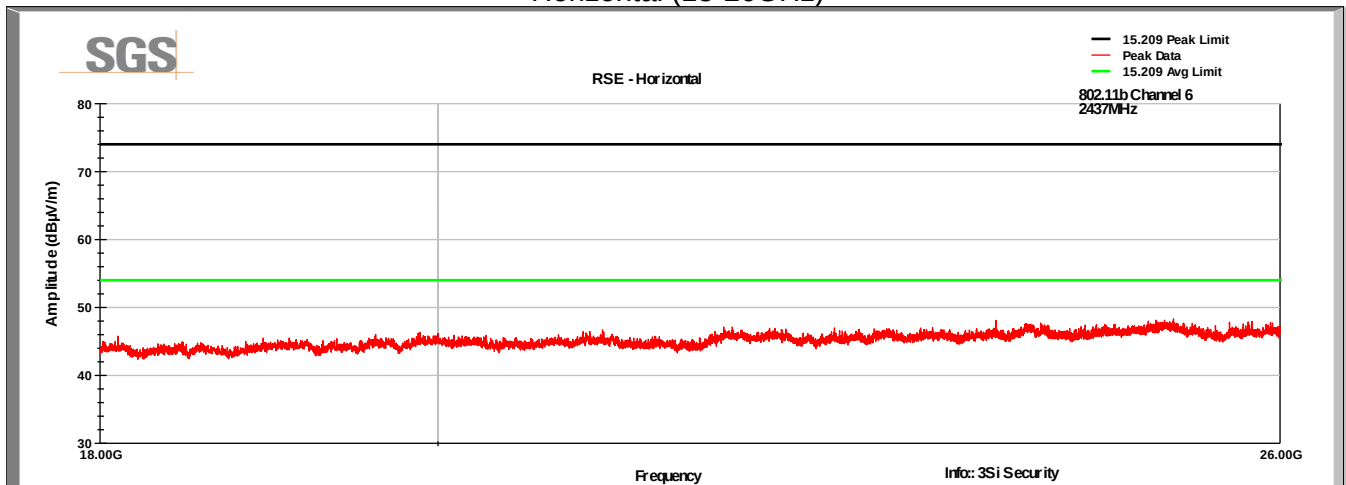
Horizontal (3-18GHz)



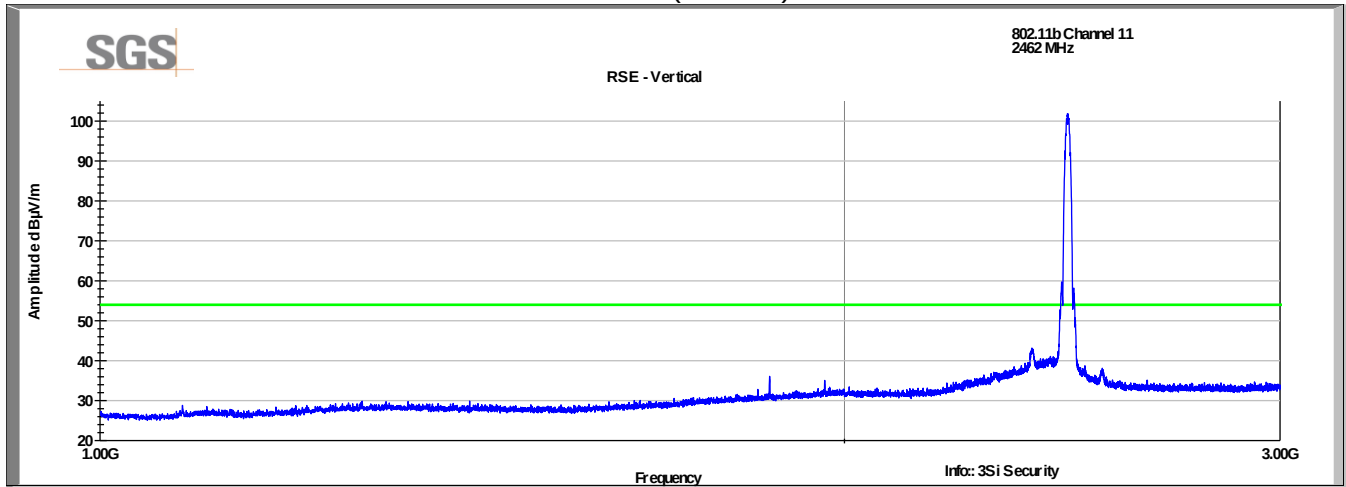
Channel 6 Vertical (18-26GHz)



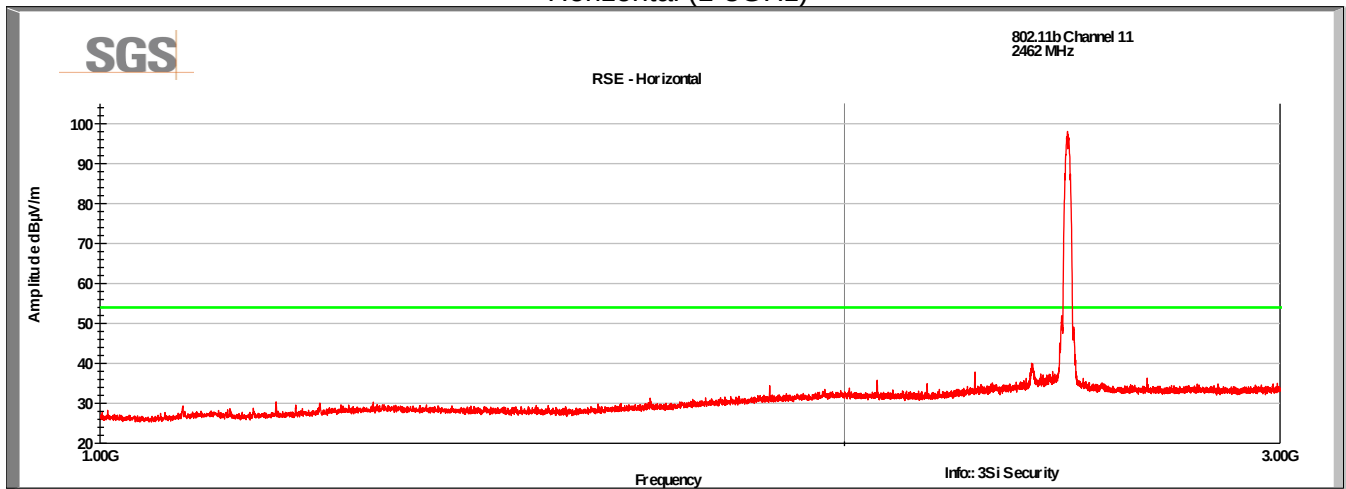
Horizontal (18-26GHz)



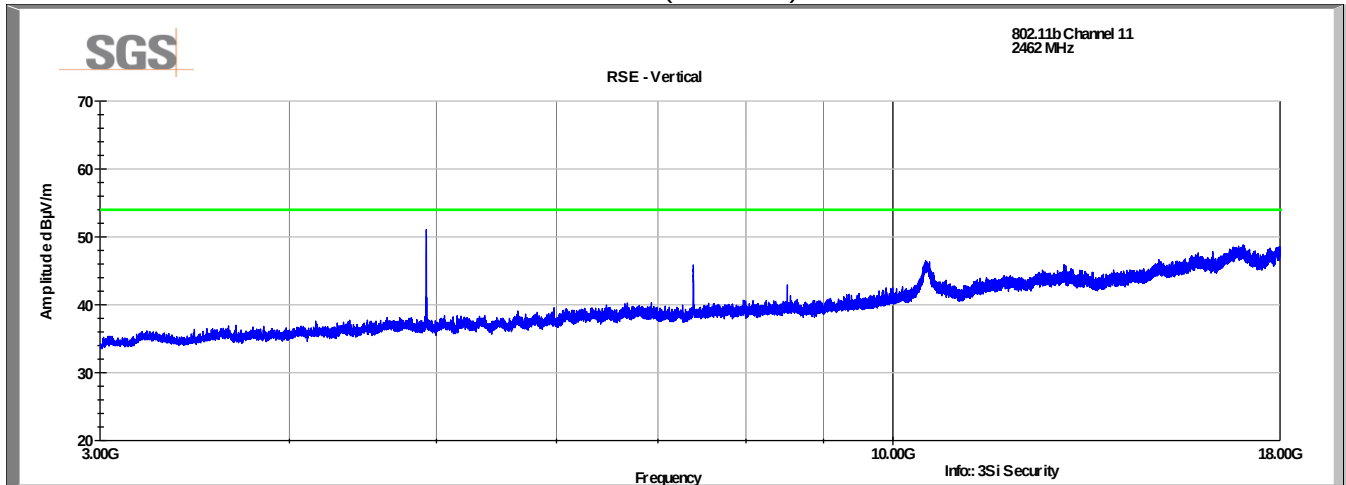
Channel 11
Vertical (1-3GHz)



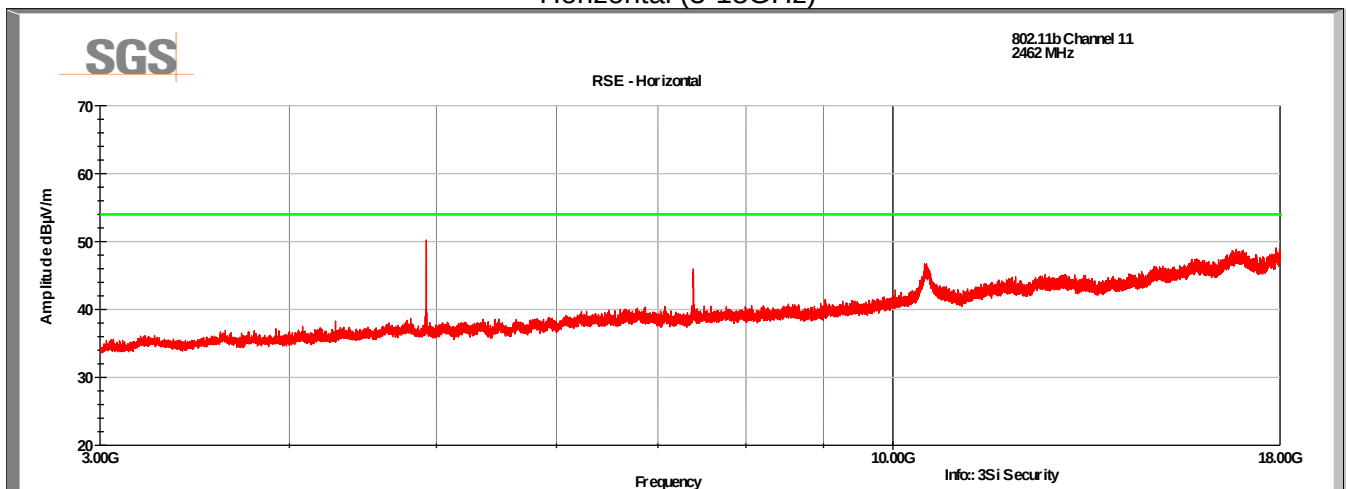
Horizontal (1-3GHz)



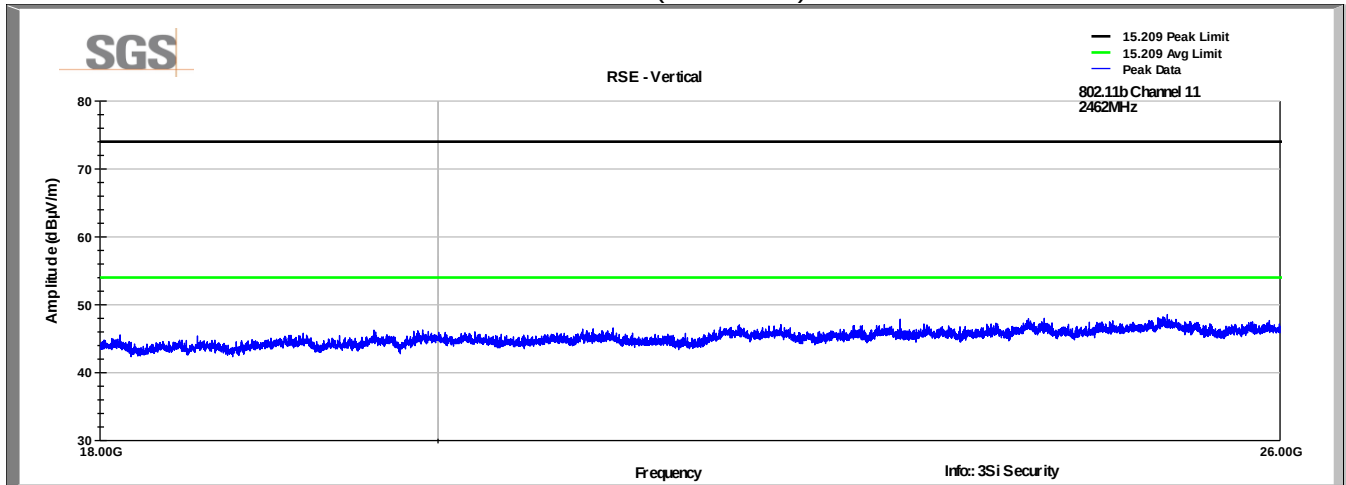
Channel 11
Vertical (3-18GHz)



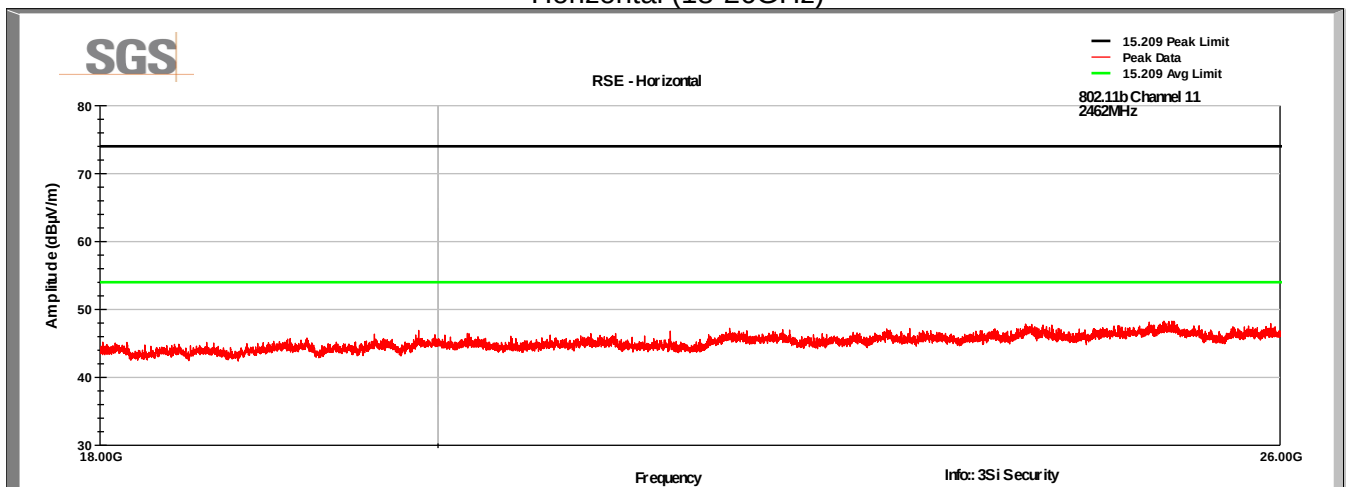
Horizontal (3-18GHz)



Channel 11
Vertical (18-26GHz)



Horizontal (18-26GHz)



7.6 Tabular Data

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
233.29	40.0	V	34.0	399.0	12.9	1.4	33.5	20.7	46.0	-25.3
257.74	44.9	V	48.0	194.0	13.4	1.5	33.5	26.1	46.0	-19.9
417.27	41.5	V	76.0	119.0	17.2	1.9	33.4	27.2	46.0	-18.8
441.82	41.3	V	50.0	383.0	17.2	1.9	33.4	27.1	46.0	-18.9
662.73	41.3	V	213.0	399.0	19.5	2.4	33.2	29.9	46.0	-16.1
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
441.82	41.1	H	0.0	137.0	17.2	1.9	33.4	26.9	46.0	-19.1
466.36	39.4	H	44.0	177.0	17.5	2.0	33.3	25.5	46.0	-20.5
490.90	39.3	H	223.0	213.0	17.7	2.0	33.3	25.7	46.0	-20.3
613.64	34.4	H	286.0	322.0	19.3	2.3	33.2	22.8	46.0	-23.2
875.09	36.6	H	309.0	203.0	21.4	2.7	33.2	27.5	46.0	-18.5
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

Note: There was no discernible difference in the measurement data below 1GHz when transmitting at different channels. QP measurements were only recorded with the device transmitting on Channel 1.

Frequency MHz	Raw Meas (dBuV)	Polarity (V/H)	Correction (dB/m)	Corr Value dBuV/m	Limit (dBuV/m)	Margin (dB)	Detector
4824.00	50.5	V	3.8	54.3	74.0	-19.7	Peak
4824.00	47.0	V	3.8	50.8	54.0	-3.2	Average
4824.00	50.4	H	3.8	54.2	74.0	-19.8	Peak
4824.00	46.9	H	3.8	50.7	54.0	-3.3	Average
7236.00	40.7	V	5.9	46.6	74.0	-27.4	Peak
7236.00	37.2	V	5.9	43.1	54.0	-10.9	Average
7236.00	40.5	H	5.9	46.4	74.0	-27.6	Peak
7236.00	37.0	H	5.9	42.9	54.0	-11.1	Average
4874.00	49.1	V	3.8	52.9	74.0	-21.1	Peak
4874.00	45.6	V	3.8	49.4	54.0	-4.6	Average
4874.00	48.0	H	3.8	51.8	74.0	-22.2	Peak
4874.00	44.5	H	3.8	48.3	54.0	-5.7	Average
7311.00	39.7	V	5.9	45.6	74.0	-28.4	Peak
7311.00	36.2	V	5.9	42.1	54.0	-11.9	Average
7311.00	38.4	H	5.9	44.3	74.0	-29.7	Peak
7311.00	34.9	H	5.9	40.8	54.0	-13.2	Average
4924.00	47.3	V	3.8	51.1	74.0	-22.9	Peak
4924.00	43.8	V	3.8	47.6	54.0	-6.4	Average
4924.00	46.4	H	3.8	50.2	74.0	-23.8	Peak
4924.00	42.9	H	3.8	46.7	54.0	-7.3	Average
7386.00	39.8	V	6.1	45.9	74.0	-28.1	Peak
7386.00	36.3	V	6.1	42.4	54.0	-11.6	Average
7386.00	39.9	H	6.1	46.0	74.0	-28.0	Peak
7386.00	36.4	H	6.1	42.5	54.0	-11.5	Average

8 Radiated Emissions at Band Edge / Restricted Band

8.1 Test Result

Test Description	Test Specification	Test Result
Field strength of spurious radiation	15.247 (d) and 15.209	Compliant

8.2 Test Method

Peak and average field strength measurements were performed at the restricted band edges of 2390MHz and 2483.5MHz. Measurements were made using the radiated methods defined in FCC KDB publication 558074 D01 DTS Meas Guidance v04.

8.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.3 °C

Relative Humidity: 52.7 %

8.4 Test Equipment

Test End Date: 13-Oct-2017

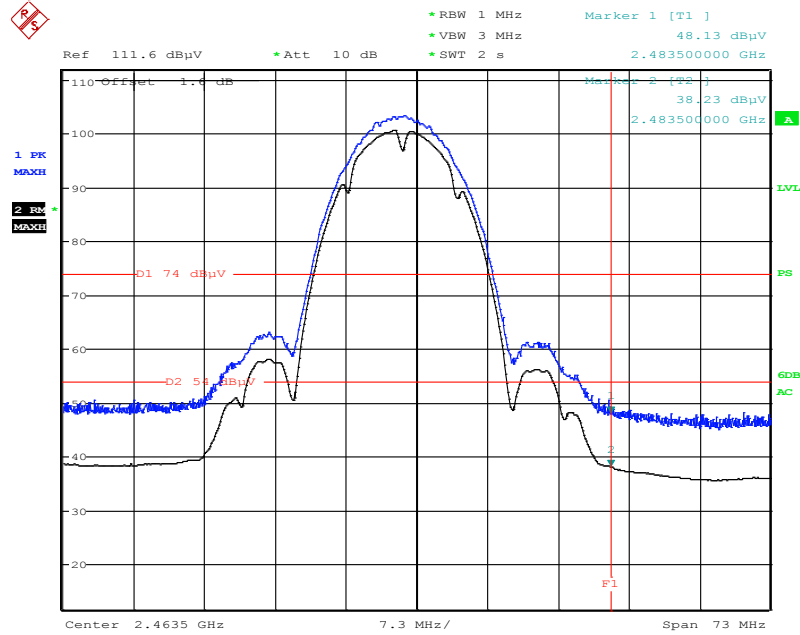
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
RF CABLE	SUCOFLEX 100	HUBER & SUHNER	B108523	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	22-Feb-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079691	27-Jul-2018
RF CABLE	SF106	HUBER & SUHNER	B079716	24-Jul-2018

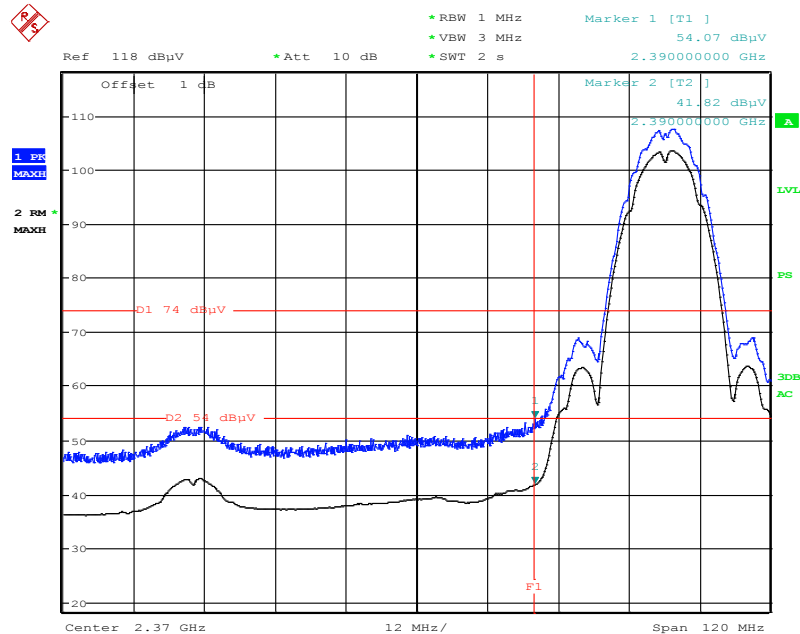
Note: The equipment calibration period is 1 year.

8.5 Test Data

802.11b

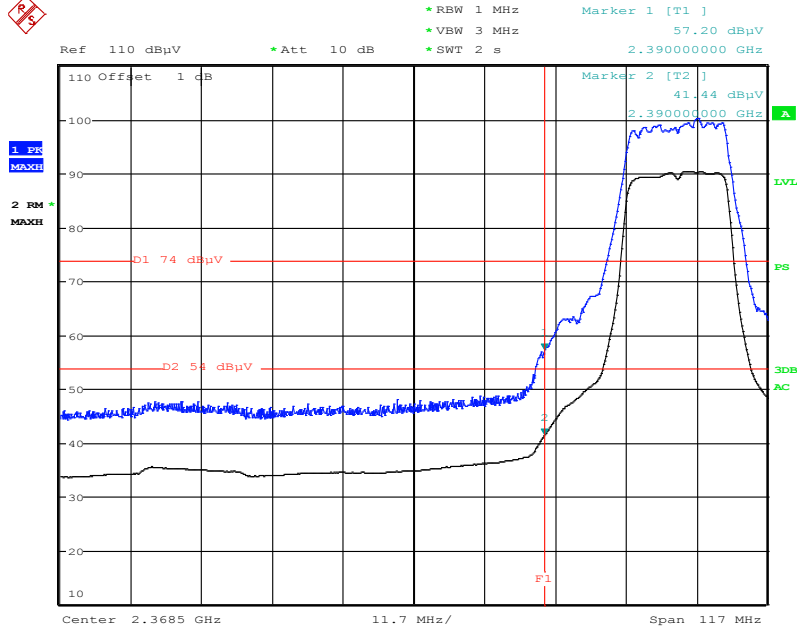


Date: 12.OCT.2017 11:33:57

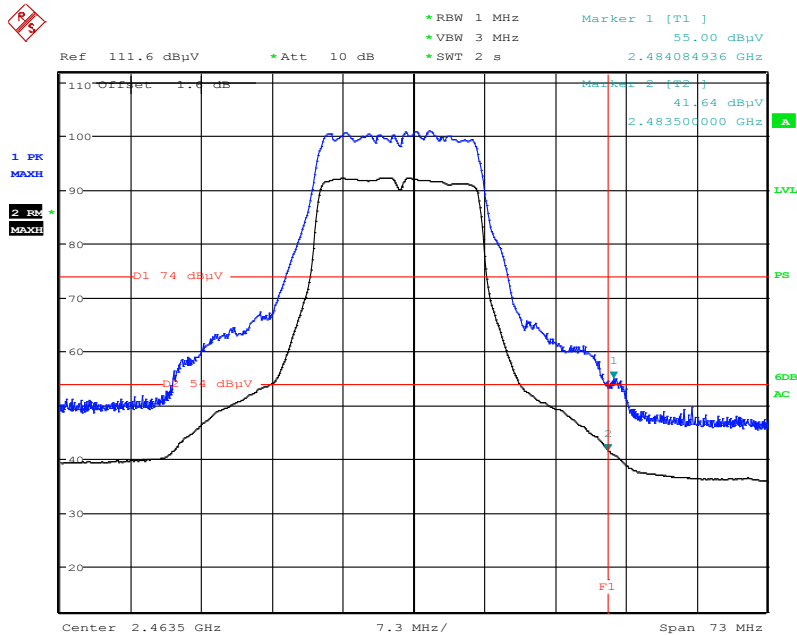


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802.11n (HT20) / 802.11g

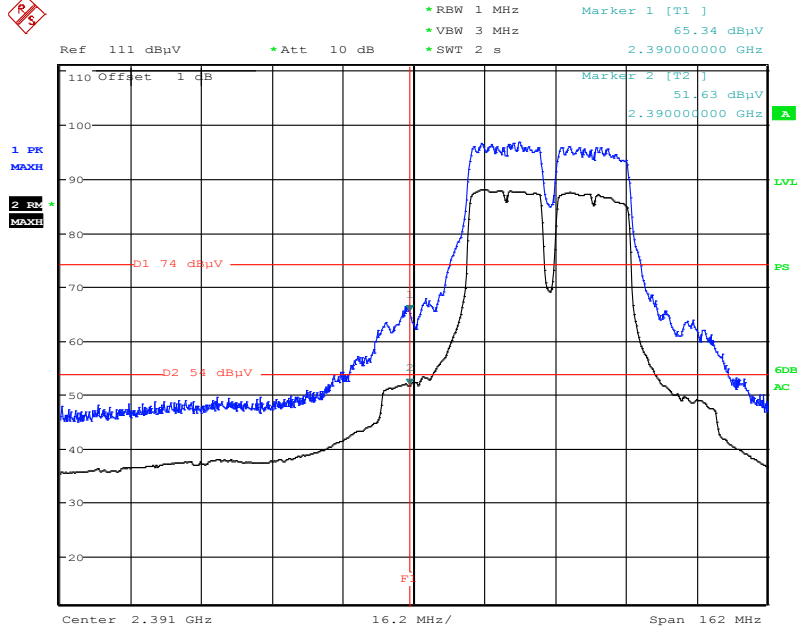


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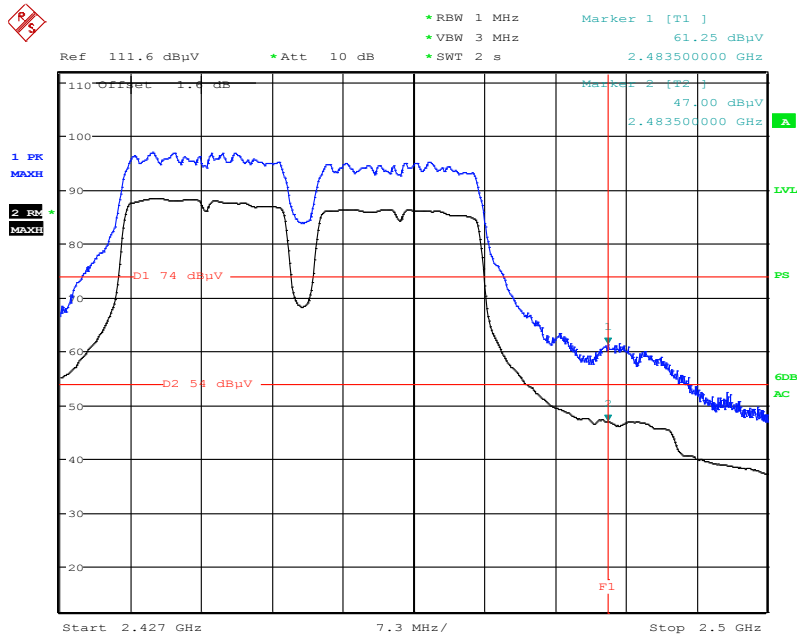


Date: 12.OCT.2017 11:26:32

802.11n (HT40)



Date: 12.OCT.2017 11:13:32



Date: 12.OCT.2017 11:21:12

9 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	20 November 2017
1	- RSS-GEN reference added to cover page.	18 January 2018