

EMC Test Report

Project Number: 4018827

Report Number: 4018827EMC03

Revision Level: 0

Client: Continental Automotive Systems, Inc.

Equipment Under Test: Wireless Modem Module with WiFi

Model: LNADVW

FCC ID: LHJ-LNADVW

IC ID: 2807E-LNADVW

Applicable Standards: FCC Part 15 Subpart C, § 15.247

RSS-247, Issue 1, May 2015

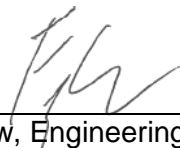
RSS-GEN, Issue 4, November 2014

ANSI C63.10: 2013

Report issued on: 02 August 2016

Test Result: Compliant

Tested by:



Fendy Liauw, Engineering Technician

Reviewed by:



Jeremy Pickens, Senior EMC Engineer

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
AC Powerline Conducted Emission	15.107, 15.207	RSS-GEN S8.8	N/A(1)

(1) Not Applicable – The host device for the module is battery-powered and has no facility for connection to the AC mains.

1.1 *Modifications Required for Compliance*

None

2 General Information

2.1 Client Information

Name: Continental Automotive System, Inc.
 Address: 21440 West Lake Cook Road
 City, State, Zip, Country: Deer Park, IL 60010, USA

2.1 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

2.2 General Information of EUT

Type of Product: Wireless Modem Module w/ WiFi
 Model Number: LNADVW
 Serial Number: NIDXG22W000DC01
 FCC ID: LHJ-LNADVW
 IC ID: 2807E-LNADVW
 IMEI Number: 00440181022485
 Firmware Version: 1.15.1.0

Frequency Range: 2400-2483.5MHz
 Data Modes: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40),
 Antenna: Not specified – professional installation only

Rated Voltage: 10.2 – 13.8Vdc
 Test Voltage: 12Vdc

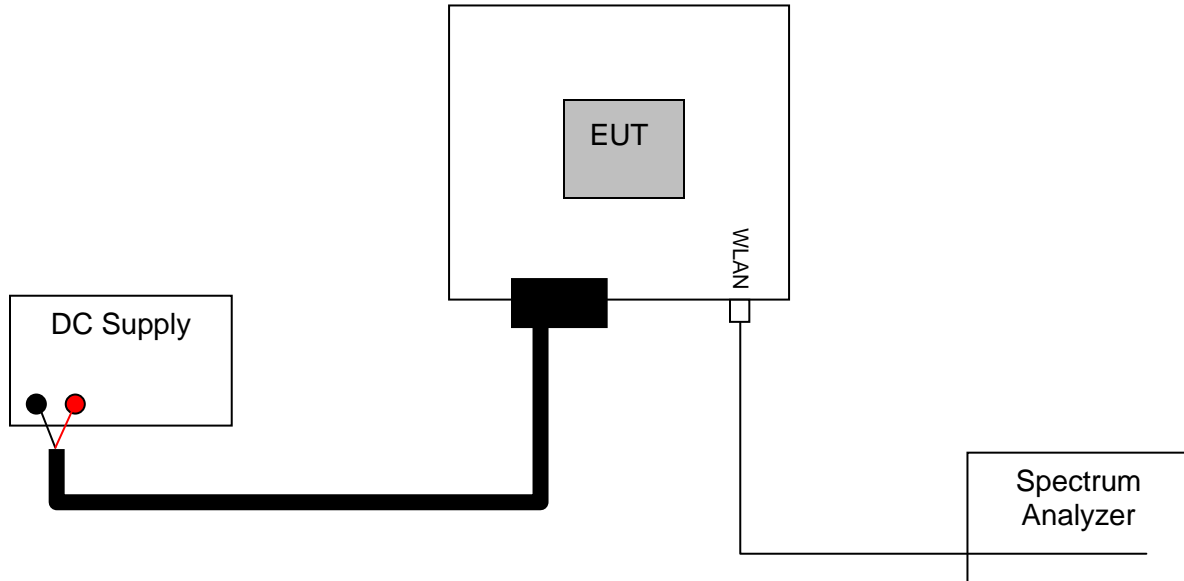
Sample Received Date: 18 July 2016
 Dates of testing: 20 July – 02 August 2016

2.3 Operating Modes and Conditions

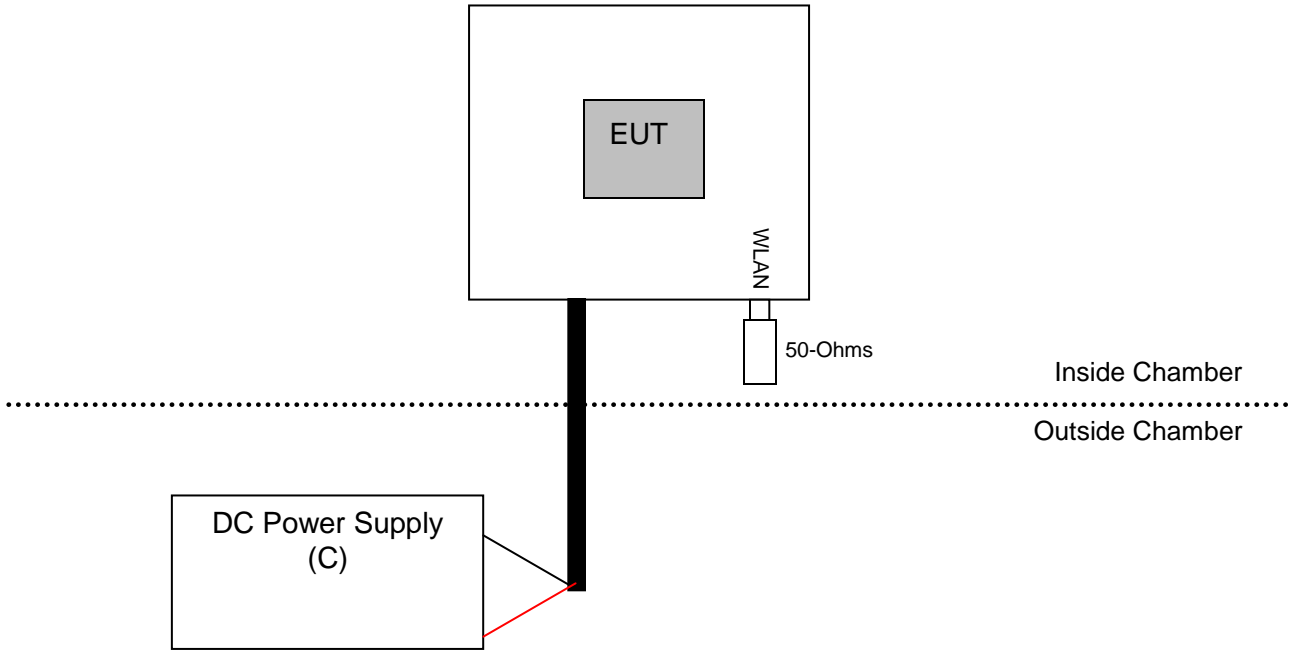
For spurious emissions measurements, only the worst-case mode with respect to peak power was investigated: 802.11b, 1Mbps. Investigations covered the low, middle, and high channels in the 2400-2483.5MHz band.

Continuous traffic was generated using QRCT test commands. Where the duty cycle measured below 99% and an RMS detector was employed, corrections of $10 \cdot \text{LOG}(1/D)$ were applied according to KDB publication 558074 D01 DTS Meas Guidance v03r05.

2.4 EUT Connection Block Diagram – Conducted Measurements



2.5 EUT Connection Block Diagram – Radiated Measurements



2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Continental Automotive	WLAN/Cellular Module	LNADVW	CM082715B000193
B	Extech	DC Power Supply	382280	12010471

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 v03r05 were used to determine the 6 dB bandwidth and 99% OBW.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 24.5 °C

Relative Humidity: 50.8 %

3.4 Test Equipment

Test Date: 20-Jul-2016

Tester: JOP

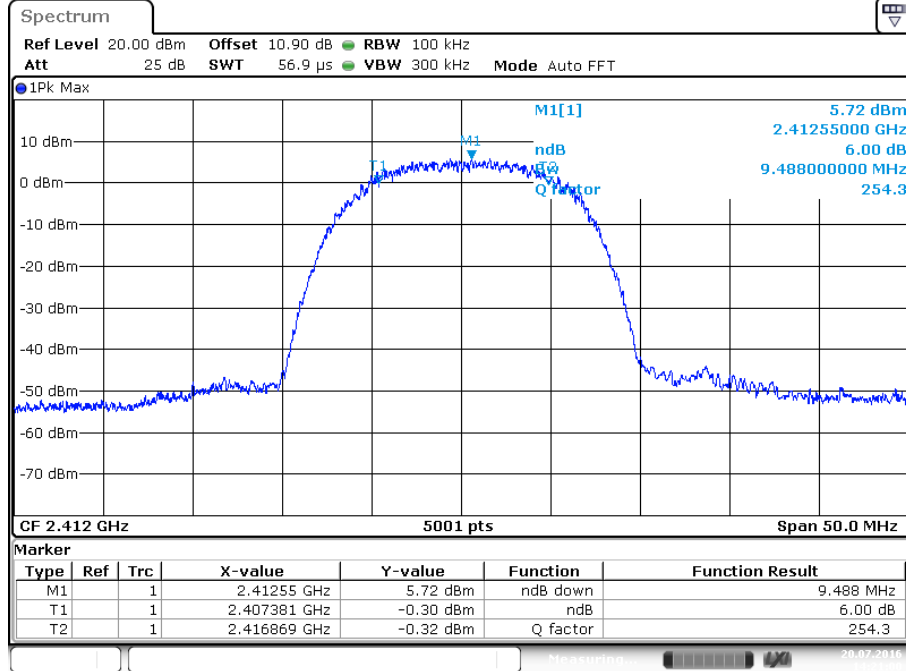
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SIGNAL ANALYZER	FSV30	ROHDE & SCHWARZ	B085749	8-Oct-2017
10DB ATTENUATOR	10DB	ROHDE & SCHWARZ	B095593	5-Aug-2016
COAXIAL CABLE	1134	GORE	B094785	4-Aug-2016

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle.

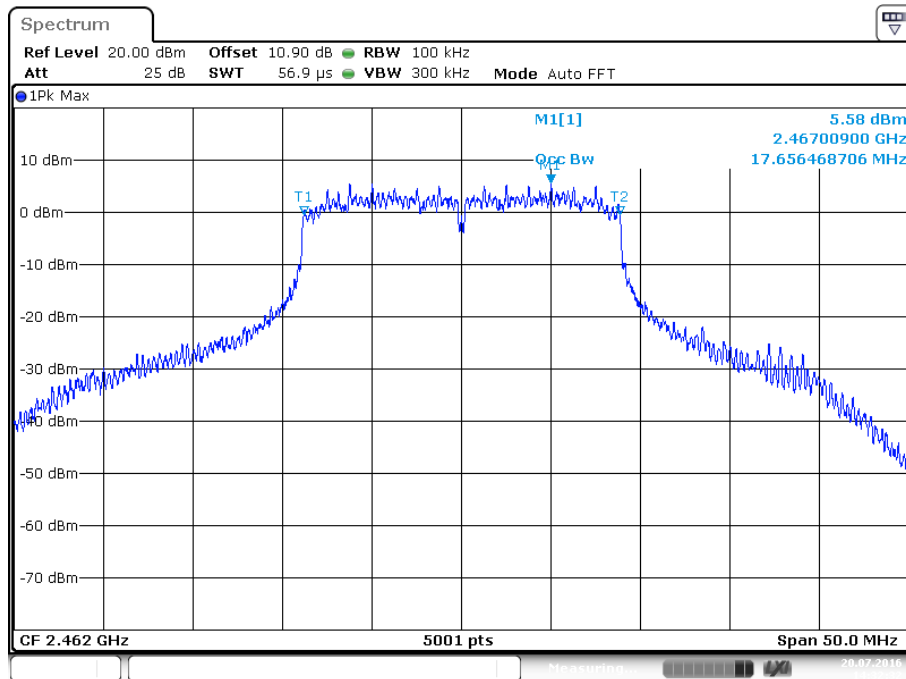
3.5 Test Data

Protocol	Channel	Data Rate	6dB Bandwidth (MHz)	Occupied Bandwidth (99%) (MHz)
802.11b	1	11 Mbps	9.488	13.657
802.11b	6	11 Mbps	9.418	13.667
802.11b	11	11 Mbps	9.478	13.587
802.11g	1	54 Mbps	16.587	16.467
802.11g	6	54 Mbps	16.587	16.627
802.11g	11	54 Mbps	16.416	16.397
802.11n	1	MCS7	17.856	17.686
802.11n	6	MCS7	17.866	17.816
802.11n	11	MCS7	17.855	17.656

Sample Plots



Date: 20.JUL.2016 14:21:00



Date: 20.JUL.2016 14:32:32

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 procedures from ANSI C63.10: 2013 clause 11.9 and KDB 558074 D01 Measurement Guidance v03r05.

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: 23.8 °C
 Relative Humidity: 53.7 %

4.4 Test Equipment

Test Date: 20-Jul-2016

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SIGNAL ANALYZER	FSV30	ROHDE & SCHWARZ	B085749	8-Oct-2017
10DB ATTENUATOR	10DB	ROHDE & SCHWARZ	B095593	5-Aug-2016
COAXIAL CABLE	1134	GORE	B094785	4-Aug-2016

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle.

4.5 Test Data – 802.11b

Mode	RateMbps	Channel	Target dBm	Measured dBm
802.11b	1	1	18	19.21
		6	18	19.51
		11	18	19.71
	2	1	18	19.21
		6	18	19.21
		11	18	19.41
	5.5	1	18	19.33
		6	18	19.43
		11	18	19.43
	11	1	18	19.25
		6	18	19.55
		11	18	19.75

4.6 Test Data – 802.11g

Mode	RateMbps	Channel	Target dBm	Measured dBm
802.11g	6	1	15	17.05
		6	15	17.15
		11	15	17.05
	9	1	15	16.97
		6	15	17.17
		11	15	17.07
	12	1	15	16.99
		6	15	17.09
		11	15	16.99
	18	1	15	16.99
		6	15	17.09
		11	15	17.09
	24	1	15	16.88
		6	15	17.08
		11	15	16.98
	36	1	15	16.86
		6	15	17.06
		11	15	16.96
	48	1	15	16.83
		6	15	17.03
		11	15	17.03
54	1	15	16.87	
	6	15	17.07	
	11	15	16.97	

4.7 Test Data – 802.11n

Mode	RateMbps	Channel	Target dBm	Measured dBm
802.11n	MCS0	1	15	16.85
		6	15	17.05
		11	15	16.95
	MCS1	1	15	16.81
		6	15	17.01
		11	15	16.91
	MCS2	1	15	16.85
		6	15	17.15
		11	15	16.95
	MCS3	1	15	16.59
		6	15	16.99
		11	15	16.89
	MCS4	1	15	16.58
		6	15	16.98
		11	15	16.88
	MCS5	1	15	16.57
		6	15	17.07
		11	15	16.87
	MCS6	1	15	16.48
		6	15	16.98
		11	15	16.88
	MCS7	1	15	16.5
		6	15	17
		11	15	16.9

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 procedures from ANSI C63.10: 2013 clause 11.10 and KDB 558074 D01 Measurement Guidance v03r05. 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: 23.8 °C
 Relative Humidity: 53.7 %

5.4 Test Equipment

Test Date: 21-Jul-2016

Tester: JOP

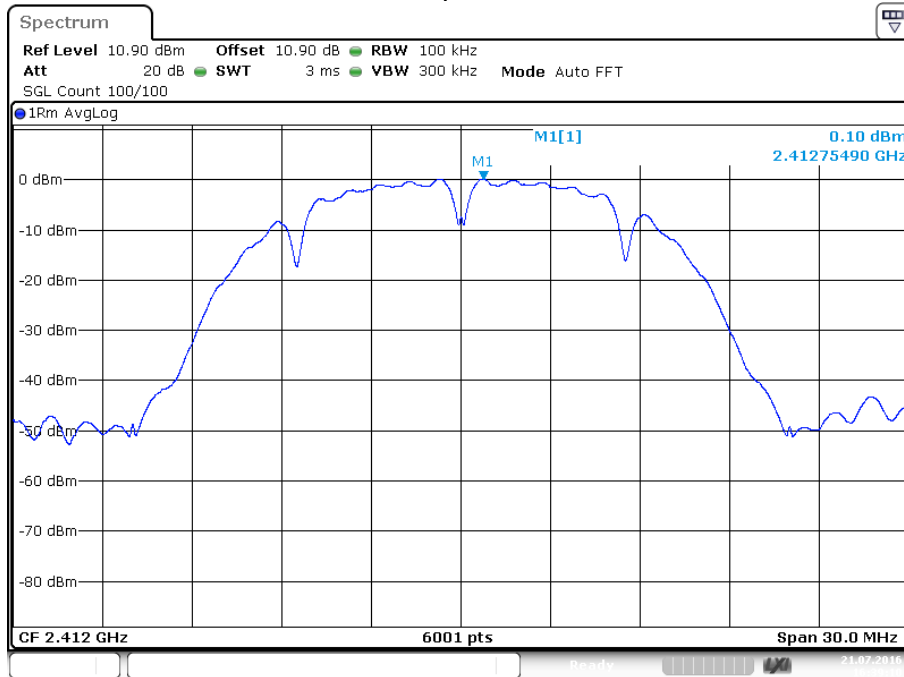
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SIGNAL ANALYZER	FSV30	ROHDE & SCHWARZ	B085749	8-Oct-2017
10DB ATTENUATOR	10DB	ROHDE & SCHWARZ	B095593	5-Aug-2016
COAXIAL CABLE	1134	GORE	B094785	4-Aug-2016

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle.

5.5 Test Data

Protocol	Channel	Data Rate	DC (%)	DC Corr (dB)	PSD (dBm)	Limit (dBm)	Margin (dB)
802.11b	1	1 Mbps	99.9	0	0.1	8	-7.9
802.11b	6	1 Mbps	99.9	0	1.09	8	-6.91
802.11b	11	1 Mbps	99.9	0	0.43	8	-7.57
802.11g	1	6 Mbps	98.9	0	-3.16	8	-11.16
802.11g	6	6 Mbps	98.9	0	-3.43	8	-11.43
802.11g	11	6 Mbps	98.9	0	-3.53	8	-11.53
802.11n	1	MCS0	98.8	0	-3.42	8	-11.42
802.11n	6	MCS0	98.8	0	-3.71	8	-11.71
802.11n	11	MCS0	98.8	0	-3.78	8	-11.78

Sample Plot



Date: 21.JUL.2016 16:39:10

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 v03r05.

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

Because the maximum conducted (average) 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: 24.3 °C
 Relative Humidity: 49.4 %

6.4 Test Equipment

Test Date: 22-Jul-2016

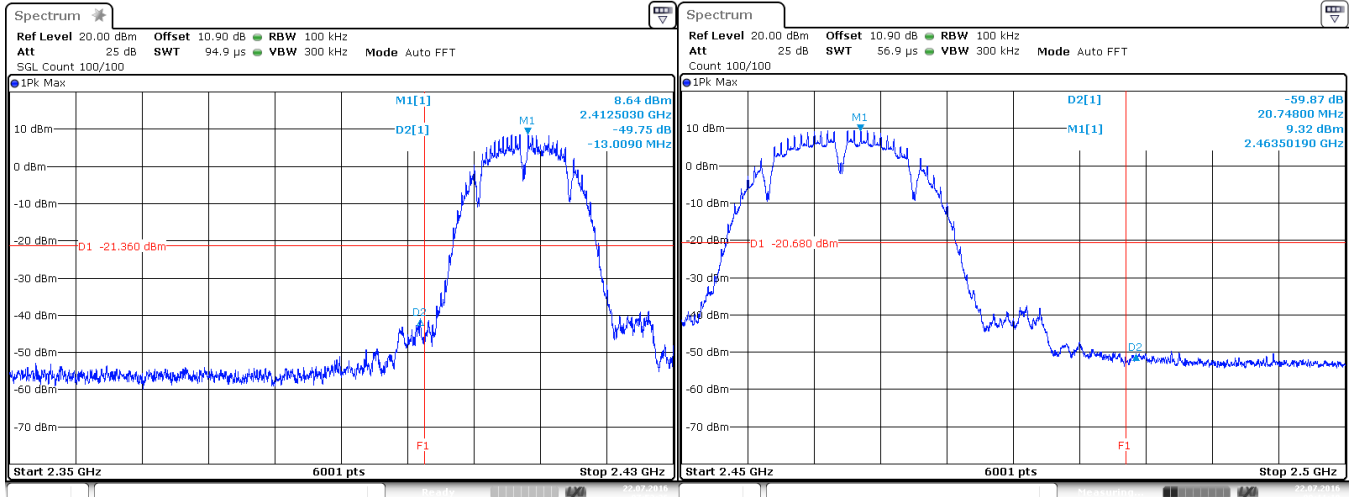
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SIGNAL ANALYZER	FSV30	ROHDE & SCHWARZ	B085749	8-Oct-2017
10DB ATTENUATOR	10DB	ROHDE & SCHWARZ	B095593	5-Aug-2016
COAXIAL CABLE	1134	GORE	B094785	4-Aug-2016
COAXIAL CABLE	SUCOFLEX 102	HUBER&SUHNER	B079822	4-Aug-2016

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle.

6.5 Test Data – DTS Bandedge

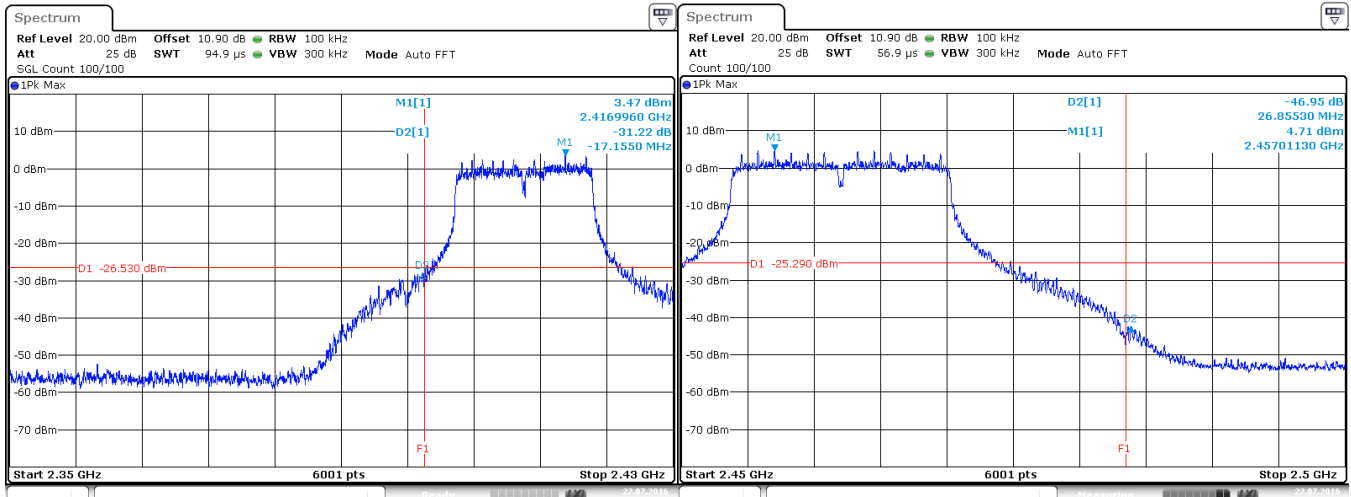
802.11b
 Lower band edge / Upper band edge
 Channel 1 / Channel 11
 1Mbit/s



Date: 22.JUL.2016 07:52:26

Date: 22.JUL.2016 08:11:10

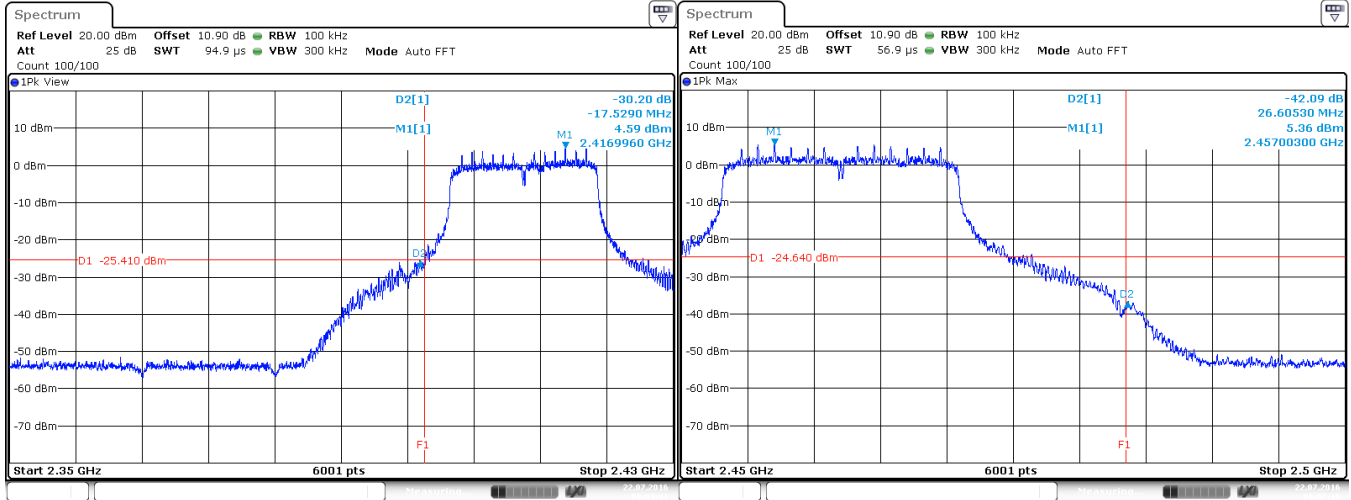
802.11g
 Lower band edge / Upper band edge
 Channel 1 / Channel 11
 6Mbit/s



Date: 22.JUL.2016 07:55:56

Date: 22.JUL.2016 08:08:44

802.11n
 Lower band edge / Upper band edge
 Channel 1 / Channel 11
 MCS0

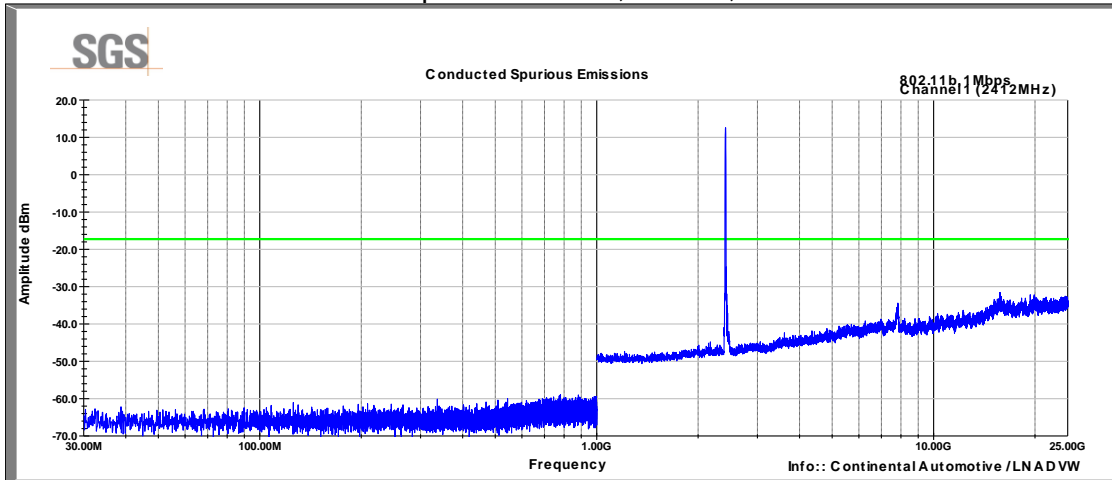


Date: 22.JUL.2016 08:04:41

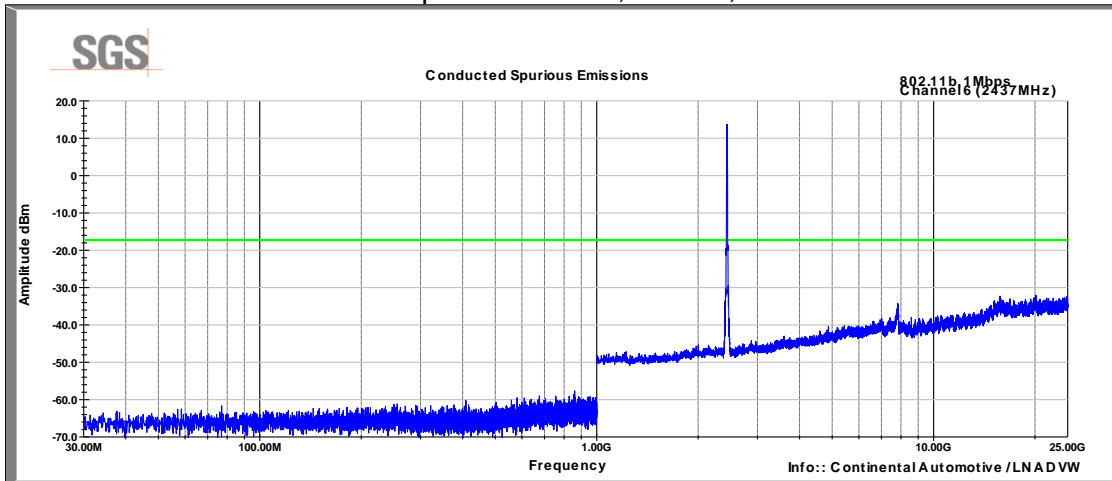
Date: 22.JUL.2016 08:07:16

6.6 Test Data – Conducted Spurious Emissions

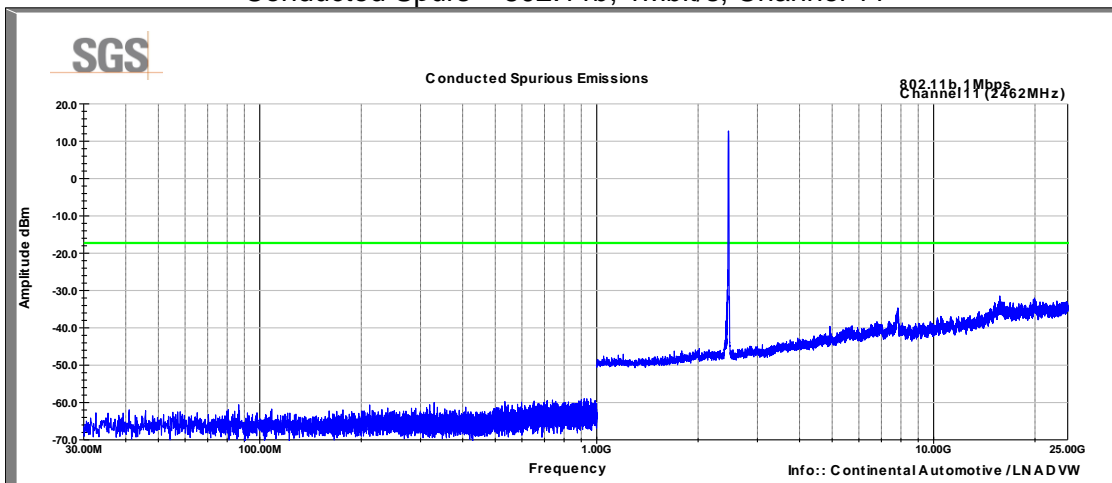
Conducted Spurs – 802.11b, 1Mbit/s, Channel 1



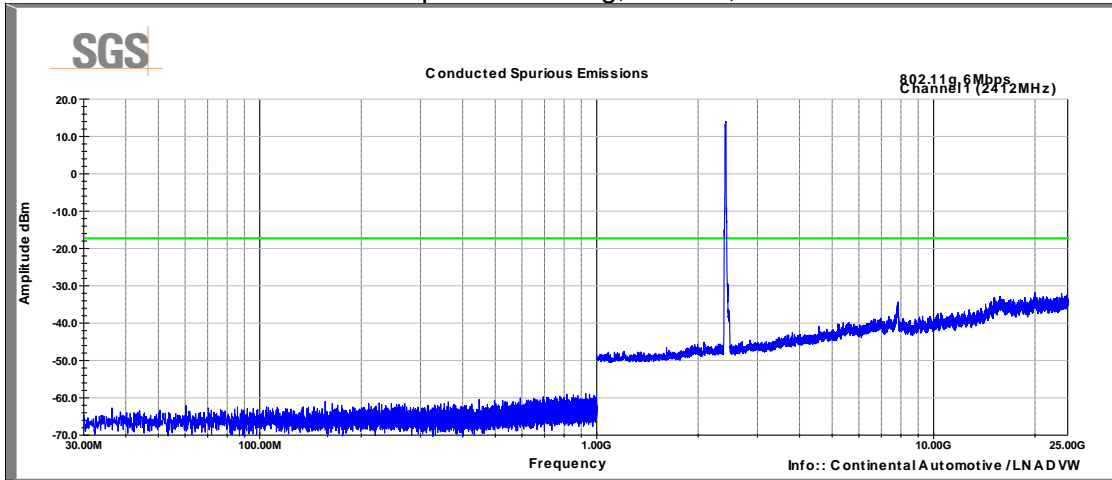
Conducted Spurs – 802.11b, 1Mbit/s, Channel 6



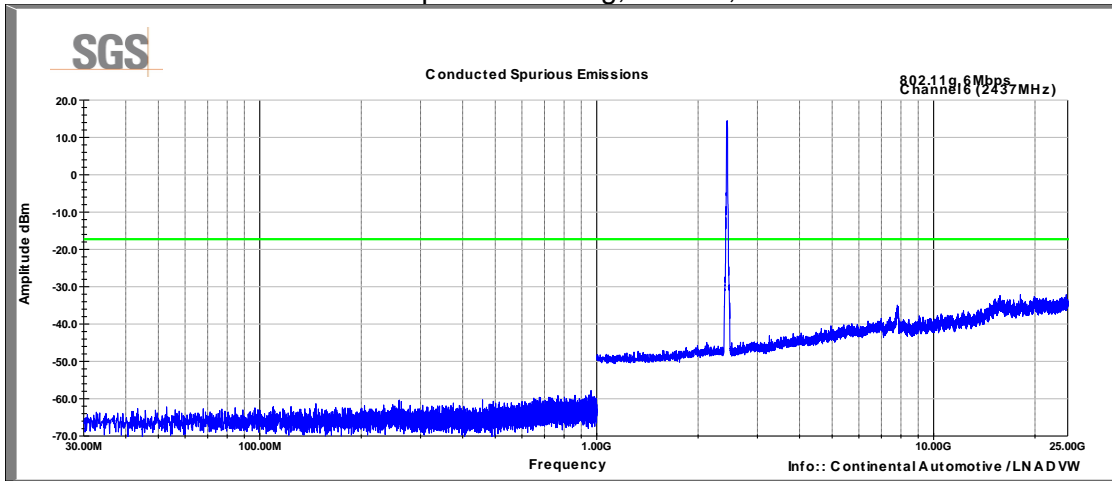
Conducted Spurs – 802.11b, 1Mbit/s, Channel 11



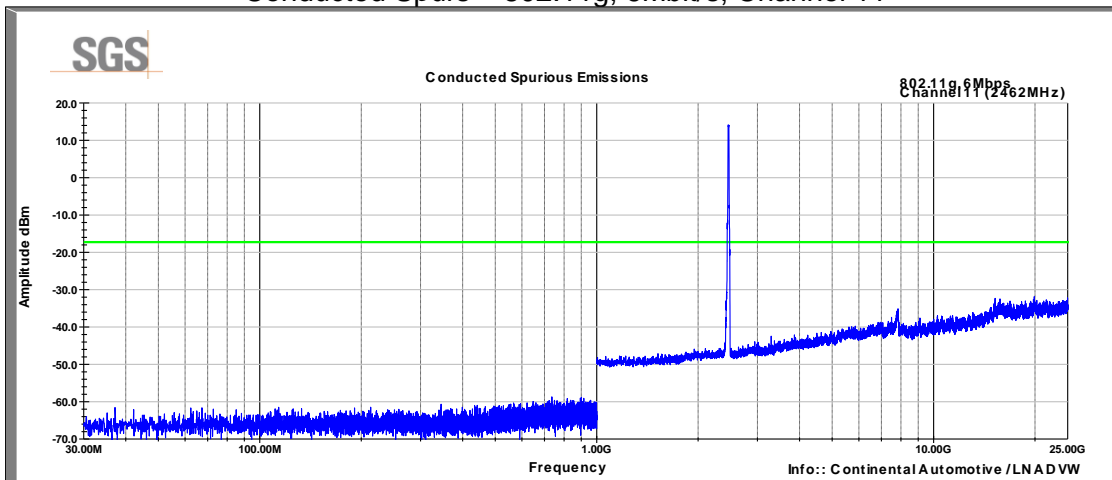
Conducted Spurs – 802.11g, 6Mbit/s, Channel 1



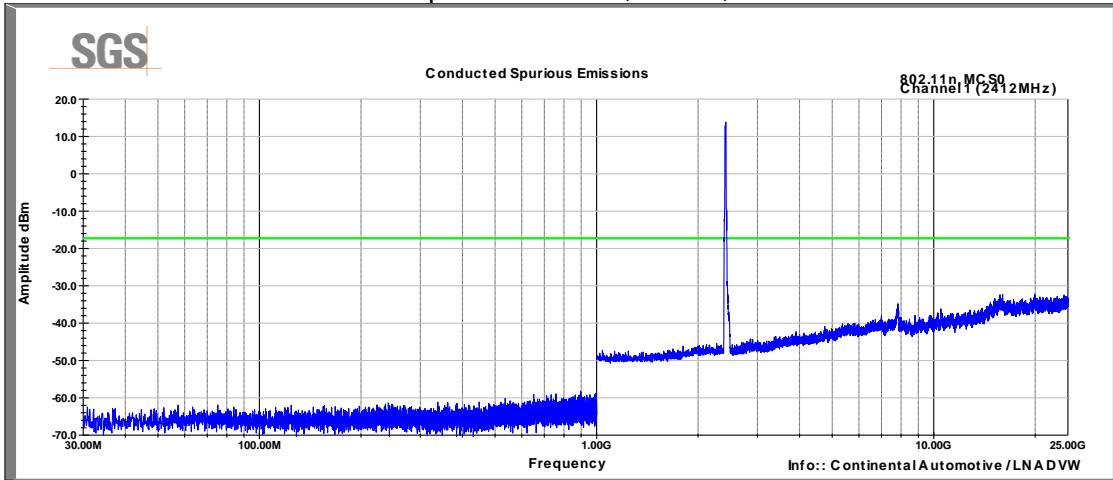
Conducted Spurs – 802.11g, 6Mbit/s, Channel 6



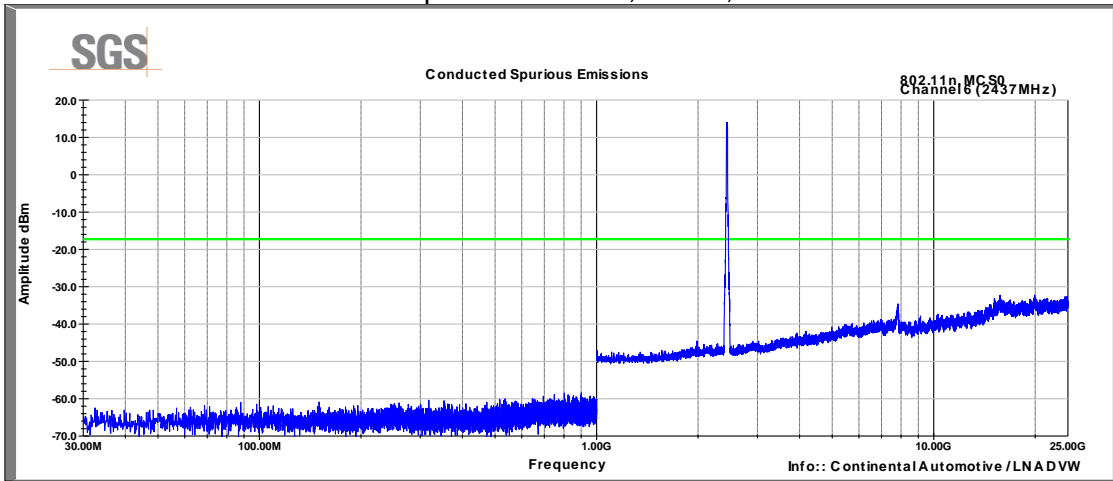
Conducted Spurs – 802.11g, 6Mbit/s, Channel 11



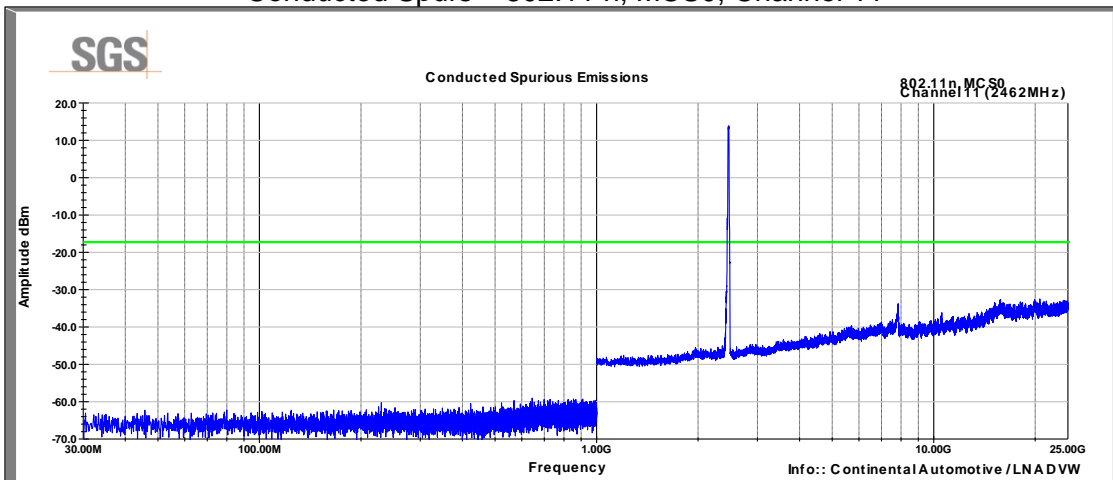
Conducted Spurs – 802.11n, MCS0, Channel 1



Conducted Spurs – 802.11 n, MCS0, Channel 6



Conducted Spurs – 802.11 n, MCS0, Channel 11



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

Cabinet radiation emission measurements were performed with the antenna port terminated with a 50-Ohm load. The measurement methods defined in ANSI C63.4: 2014 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:

- 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: 24.3 °C
 Relative Humidity: 48.7 %

7.4 Test Equipment

Test Start Date: 28-Jul-2016

Test End Date: 2-Aug-2016

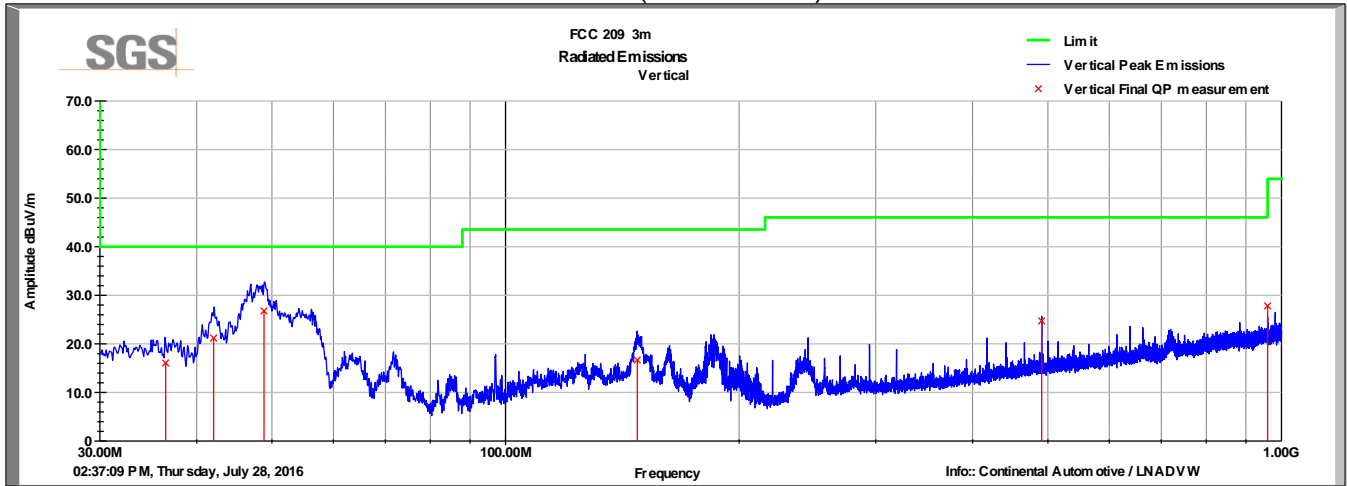
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	21-Jul-2017
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	20-Jun-2017
ANTENNA, BILOG	JB6	SUNOL	B079690	21-Oct-2016
RF CABLE	SF106	HUBER & SUHNER	B079716	27-Jul-2017
RF CABLE	SF106	HUBER & SUHNER	B079713	27-Jul-2017
RF CABLE	SF106	HUBER & SUHNER	B079659	26-Jul-2017
RF CABLE	104PE	HUBER & SUHNER	B079793	27-Jul-2017
LOW NOISE AMPLIFIER	ZKL-2+	MINI-CIRCUITS	B079800	29-Jul-2017
DRG HORN (MEDIUM)	3117	ETS Lindgren	B079699	26-Apr-2017
RF CABLE	SF106	HUBER & SUHNER	B079712	27-Jul-2017
RF CABLE	SUCOFLEX 100	HUBER & SUHNER	B108523	27-Oct-2016
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	16-Feb-2017
HORN(SMALL)	LB-180400-20-C-KF	A-INFO	15007	29-Mar-2017
RF CABLE	SF102	HUBER & SUHNER	B079822	27-Jul-2017
RF CABLE	SF102	HUBER & SUHNER	B079823	4-Aug-2016

Note: The equipment calibration period is 1 year.

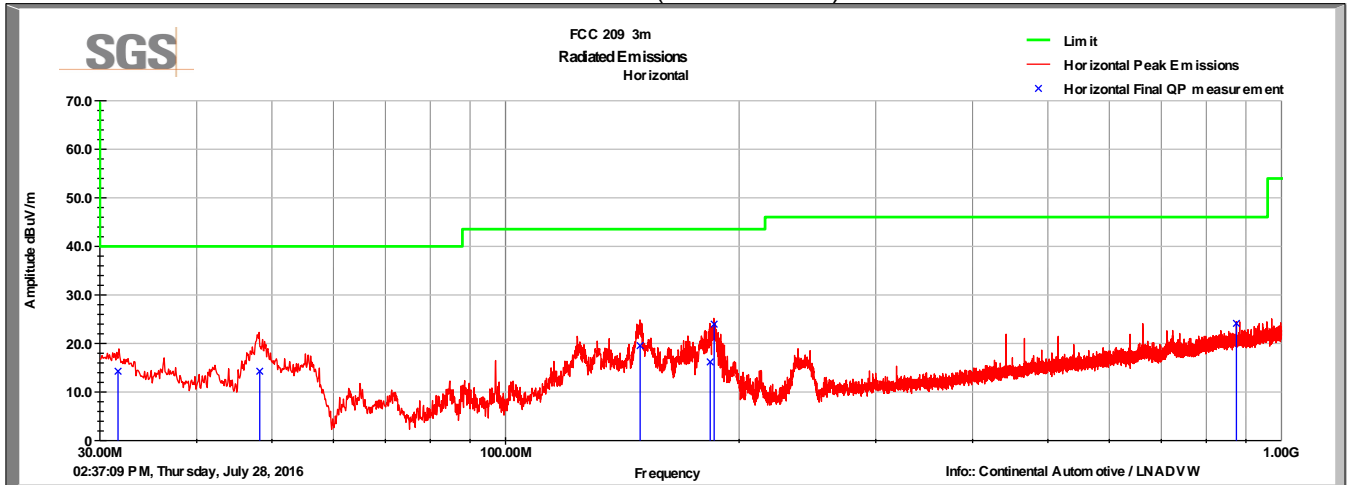
7.5 Test Data – Cabinet Radiation

2.4 GHz CH 1, 1Mbps
 Vertical (30-1000MHz)



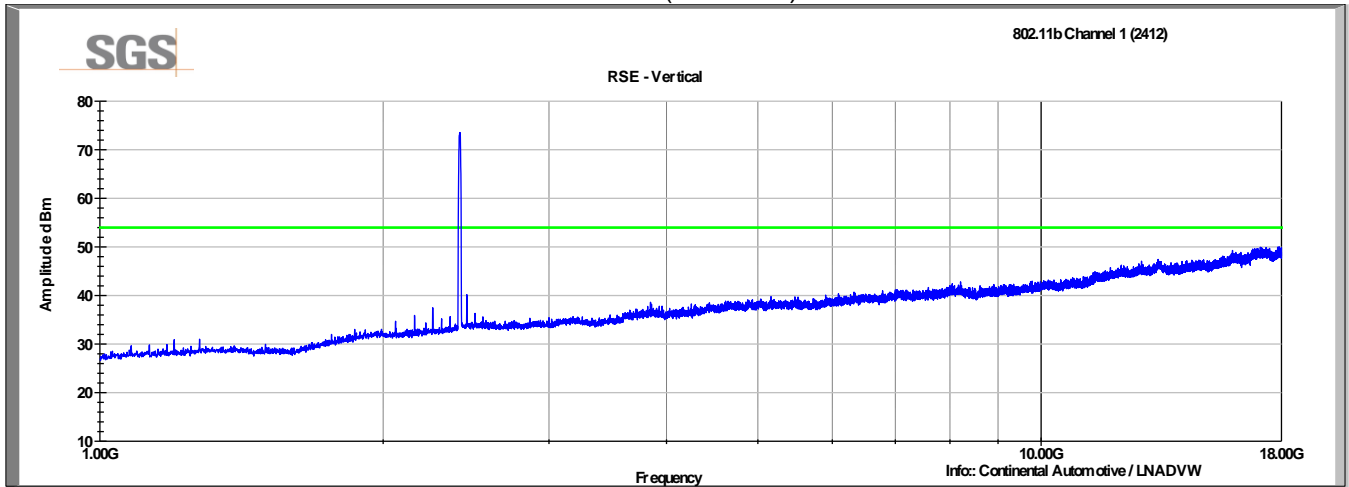
Frequency (MHz)	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
36.47	29.9	V	162.0	260.0	17.2	0.6	31.7	16.1	40.0	-23.9
42.05	39.1	V	7.0	100.0	13.1	0.7	31.7	21.2	40.0	-18.8
48.84	48.4	V	302.0	100.0	9.3	0.7	31.6	26.8	40.0	-13.2
147.84	33.9	V	0.0	118.0	12.9	1.3	31.4	16.7	43.5	-26.9
490.90	35.4	V	3.0	138.0	18.1	2.3	31.1	24.7	46.0	-21.3
960.00	31.4	V	329.0	163.0	23.5	3.3	30.4	27.8	46.0	-18.2
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

2.4 GHz CH1, 1Mbps
 Horizontal (30-1000MHz)

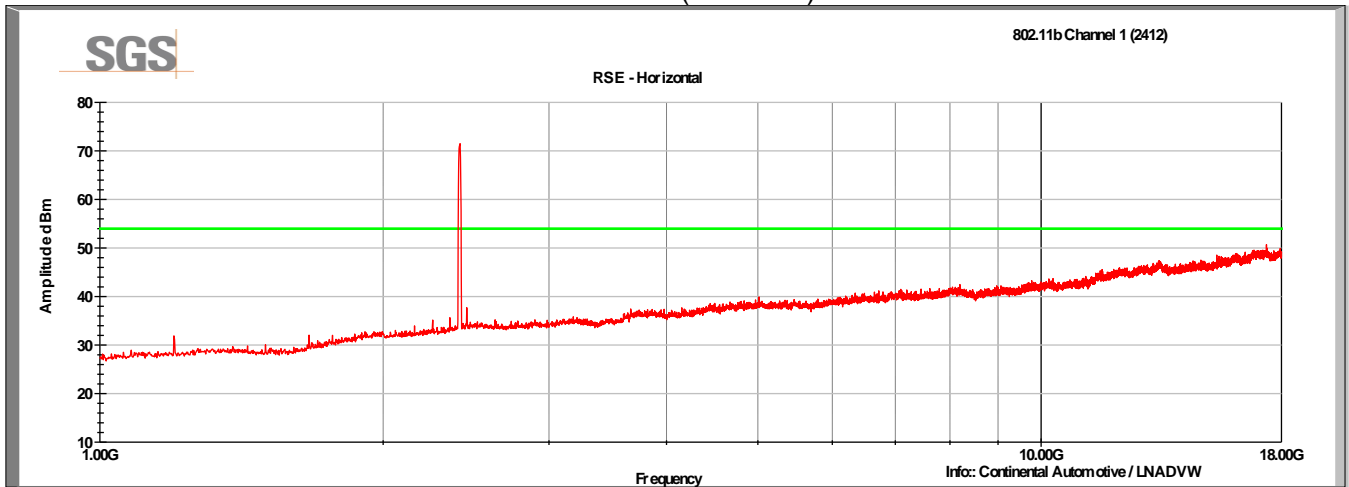


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
31.67	24.4	H	36.0	176.0	21.0	0.6	31.7	14.3	40.0	-25.7
48.22	35.7	H	260.0	326.0	9.5	0.7	31.6	14.3	40.0	-25.7
149.14	36.8	H	92.0	139.0	12.9	1.3	31.4	19.5	43.5	-24.0
183.56	35.0	H	225.0	243.0	11.2	1.4	31.4	16.2	43.5	-27.3
185.71	42.7	H	243.0	117.0	11.2	1.4	31.4	24.0	43.5	-19.5
875.09	28.8	H	252.0	260.0	22.8	3.2	30.6	24.1	46.0	-21.9
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

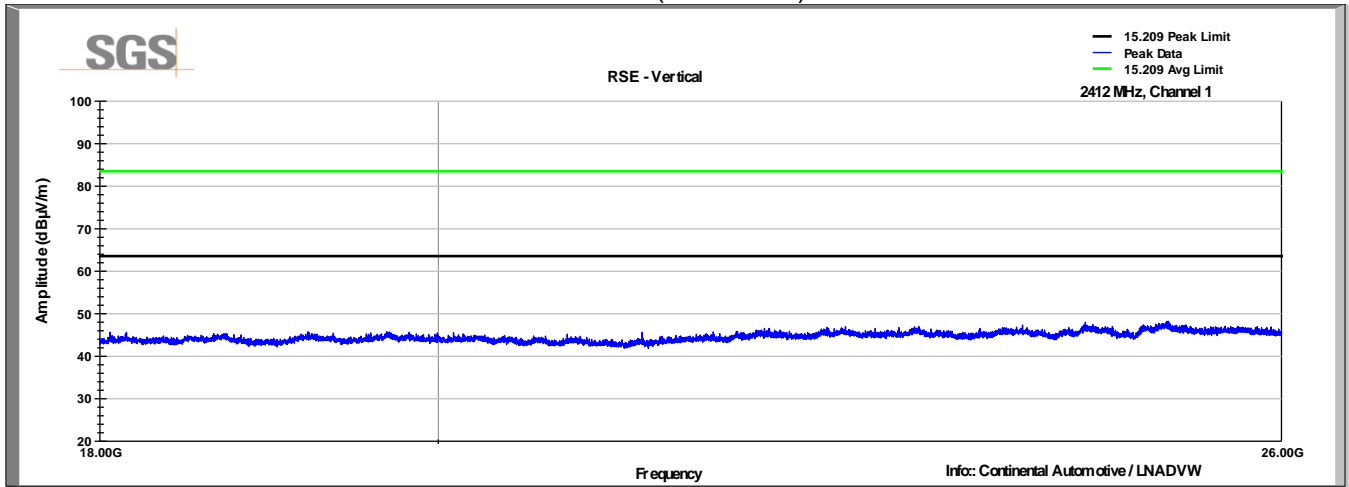
2.4 GHz CH 1, 1Mbps
 Vertical (1-18GHz)



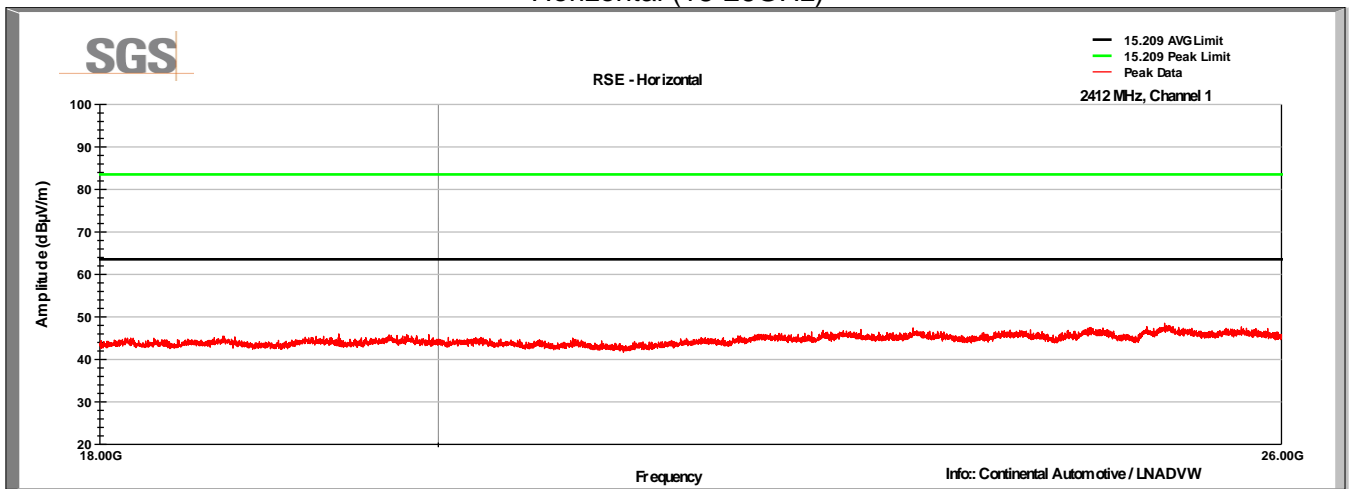
2.4 GHz CH1, 1Mbps
 Horizontal (1-18GHz)



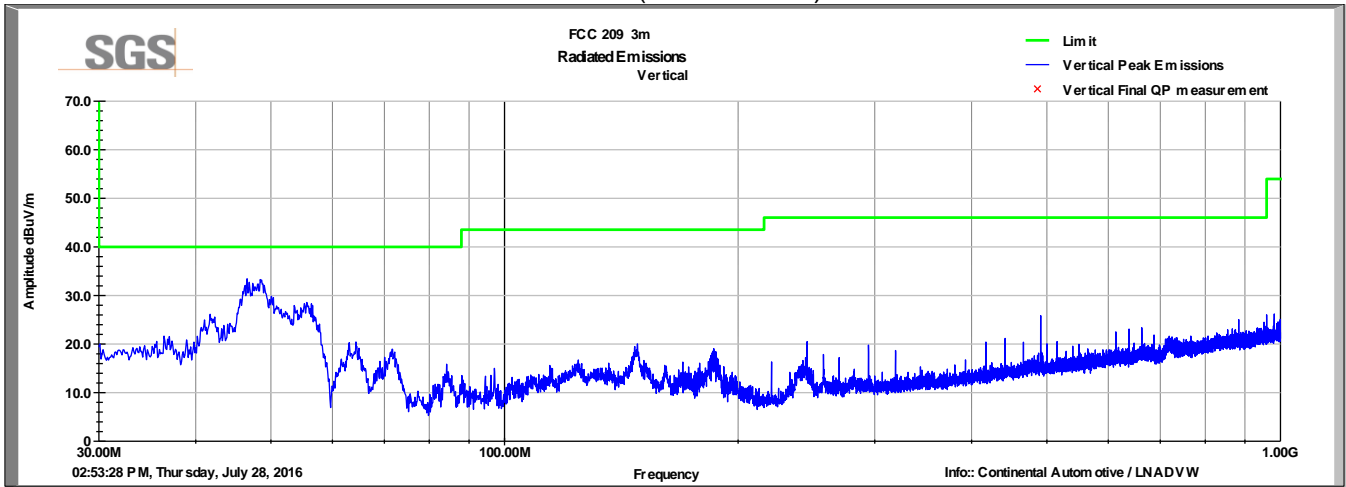
2.4 GHz CH 1, 1Mbps
 Vertical (18-26GHz)



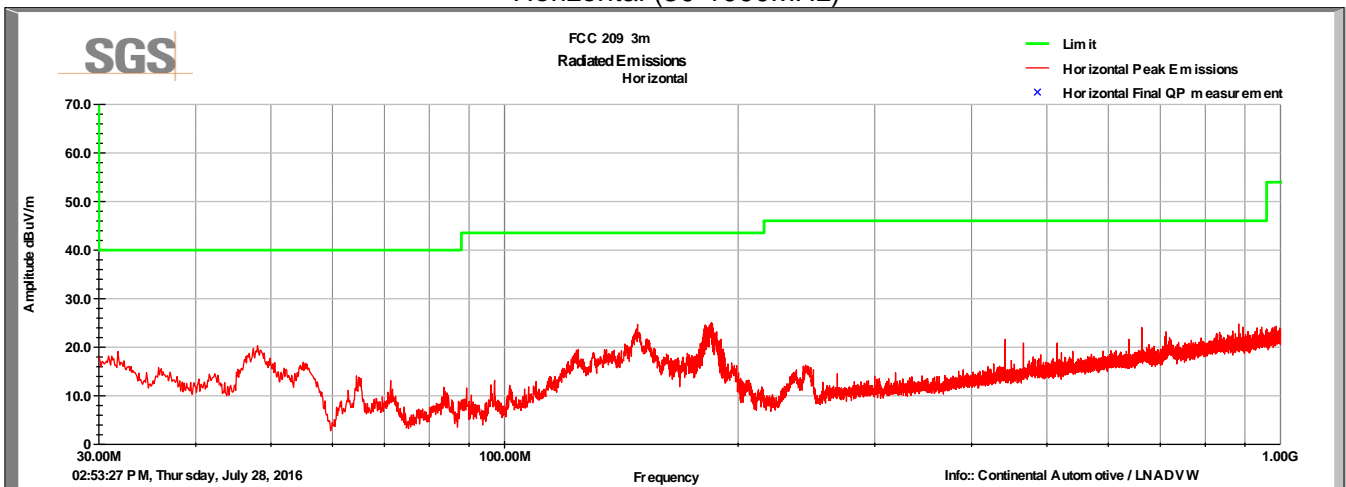
2.4 GHz CH 1, 1Mbps
 Horizontal (18-26GHz)



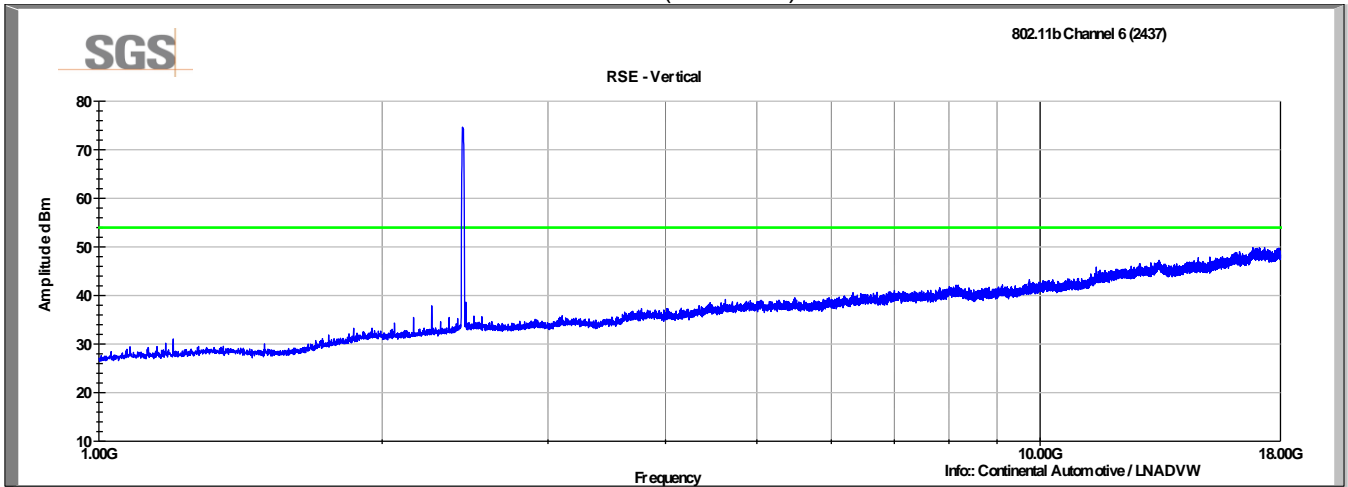
2.4 GHz CH 6, 1Mbps
 Vertical (30-1000MHz)



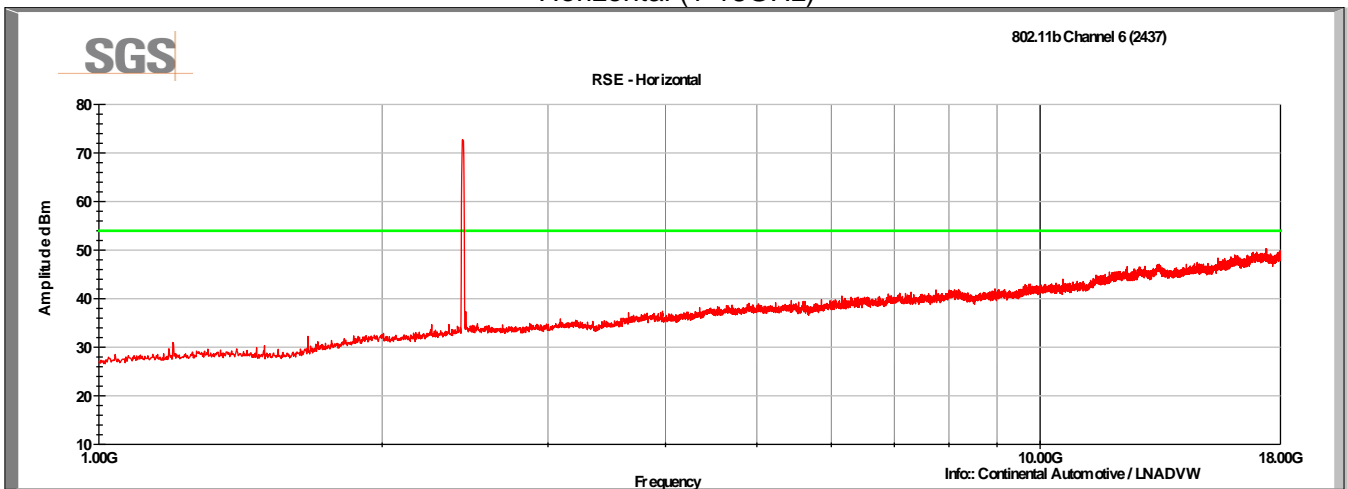
2.4 GHz CH 6, 1Mbps
 Horizontal (30-1000MHz)



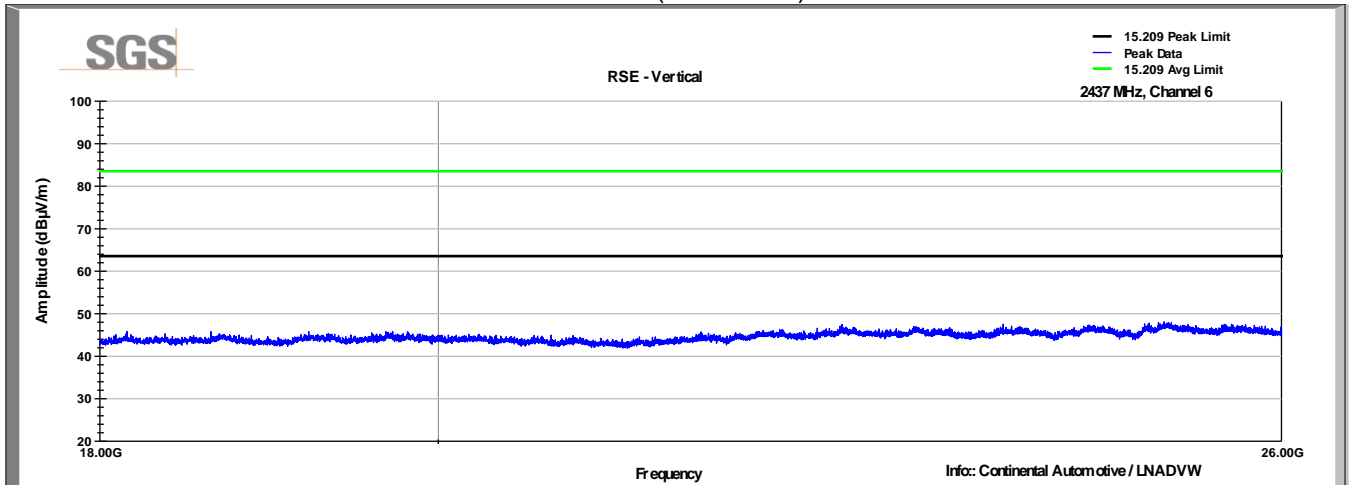
2.4 GHz CH 6, 1Mbps
 Vertical (1-18GHz)



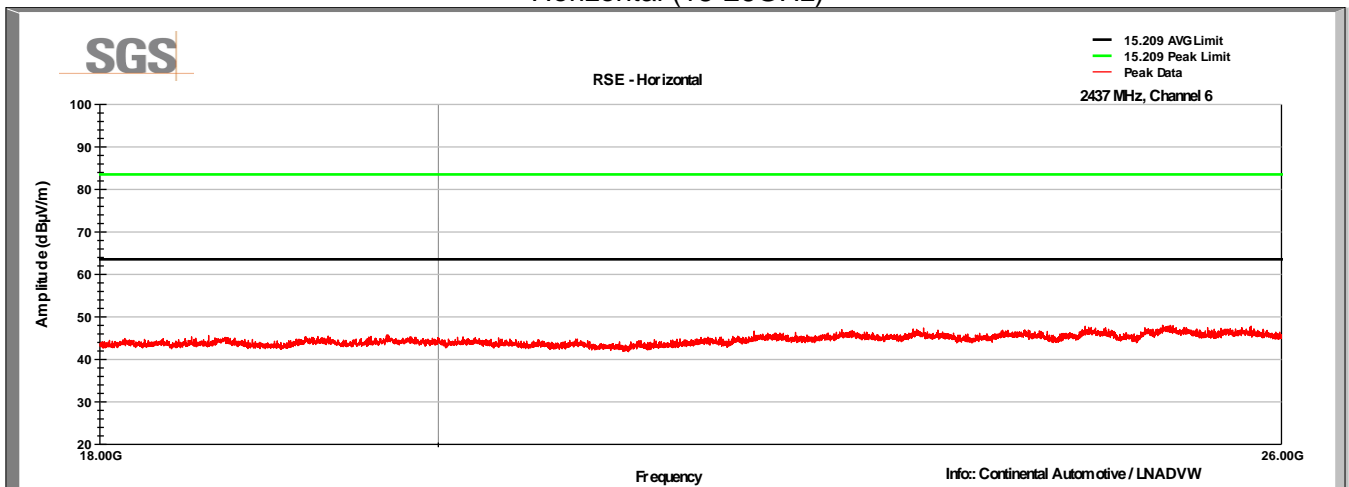
2.4 GHz CH 6, 1Mbps
 Horizontal (1-18GHz)



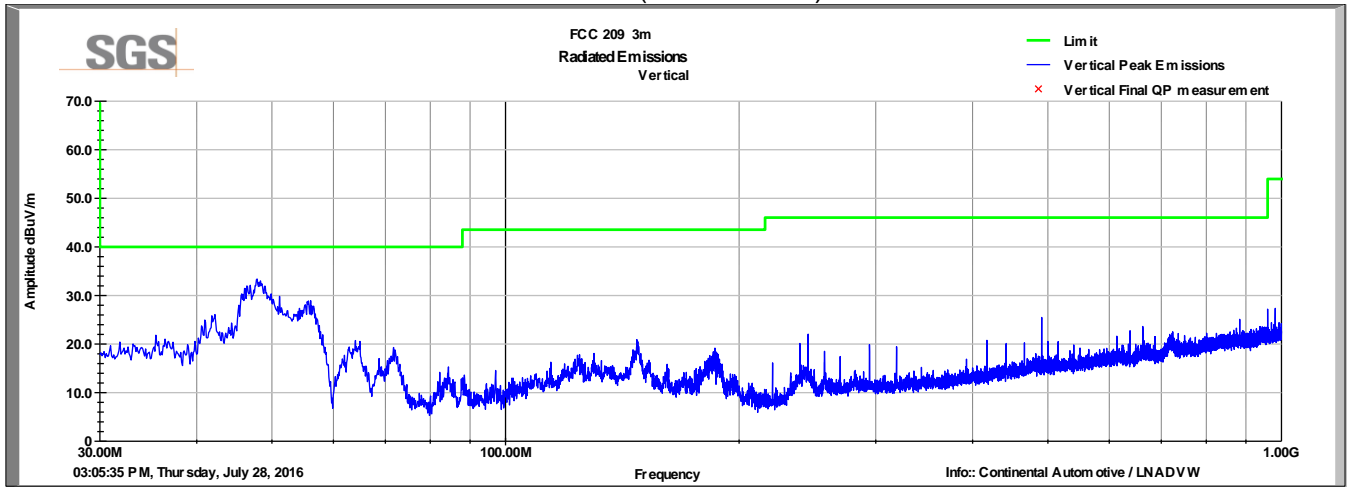
2.4 GHz CH 6, 1Mbps
 Vertical (18-26GHz)



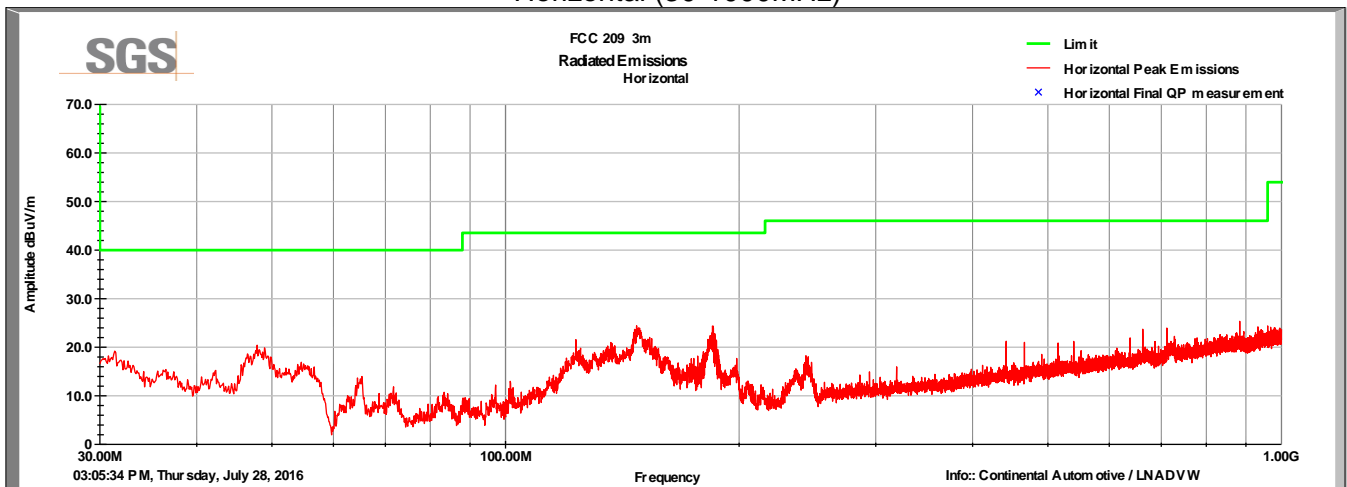
2.4 GHz CH 6, 1Mbps
 Horizontal (18-26GHz)



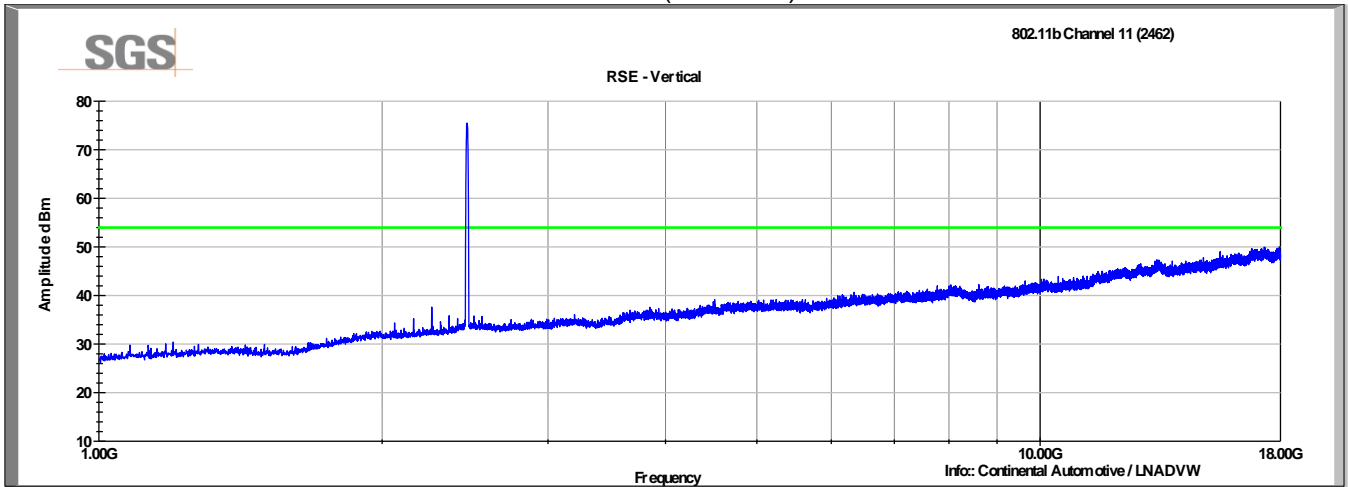
2.4 GHz CH 11, 1Mbps
 Vertical (30-1000MHz)



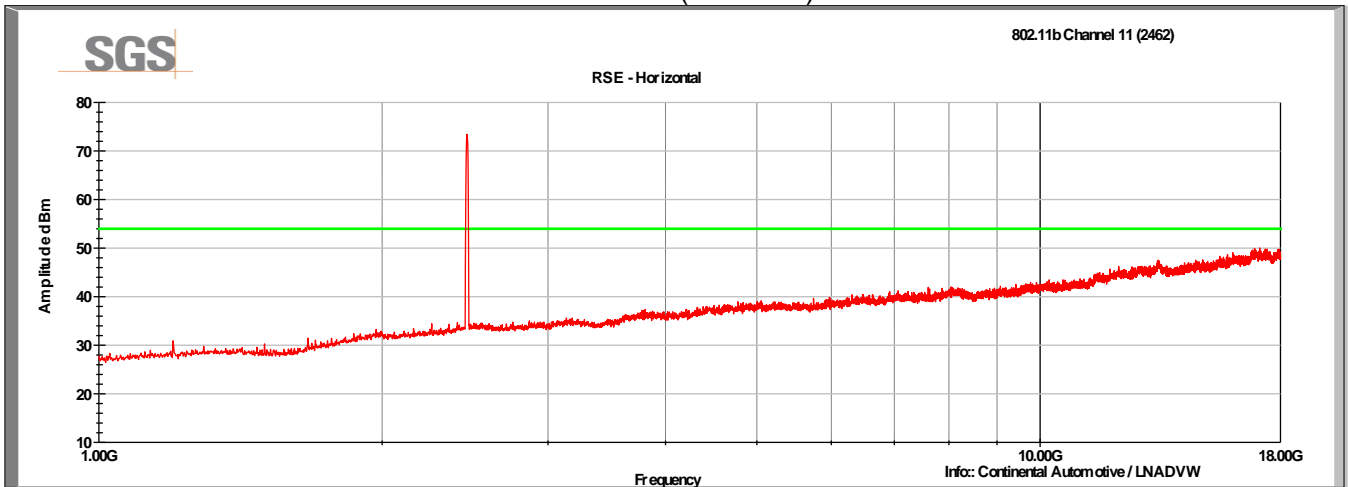
2.4 GHz CH 11, 1Mbps
 Horizontal (30-1000MHz)



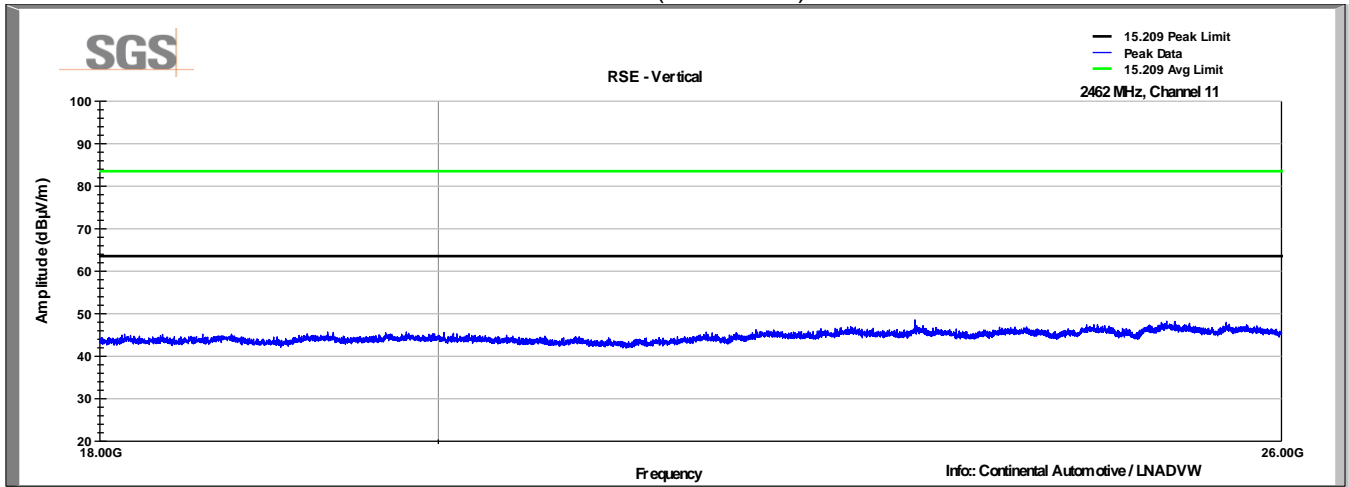
2.4 GHz CH 11, 1Mbps
Vertical (1-18GHz)



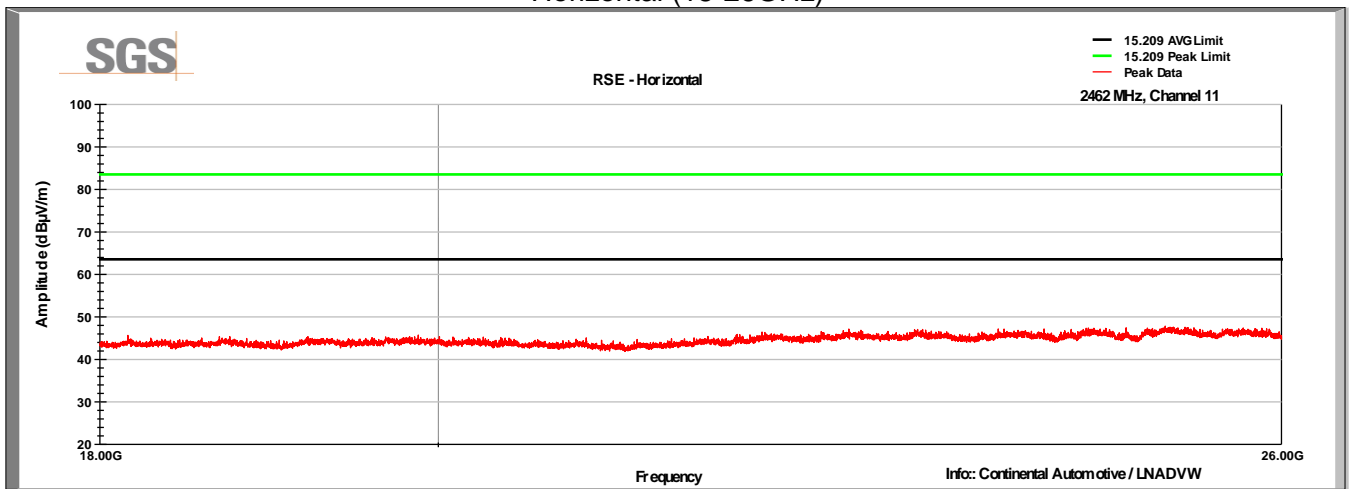
2.4 GHz CH 11, 1Mbps
Horizontal (1-18GHz)



2.4 GHz CH 11, 1Mbps
 Vertical (18-26GHz)



2.4 GHz CH 11, 1Mbps
 Horizontal (18-26GHz)



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

Because the device is not marketed with an antenna, peak and average field strength measurements were performed at the restricted band edges of 2390MHz and 2483.5MHz and the maximum antenna gain that would meet the limits was calculated. Measurements were made using the conducted methods defined in Sections 12 and 13 of FCC publication D01 DTS Meas Guidance v03r05. Additionally, a swept conducted test was performed using the maximum antenna gain derived from the band edge measurements to show compliance in all of the restricted bands.

Offset Calculations:

Offset calculations so that conducted measurements on the spectrum analyzer in dBuV represent field strength measurements in dBuV/m.

$$\text{Offset} = -20\log(D) + 104.8 - 107 + \text{CL} + \text{DC} + \text{AG}$$

$$\text{Offset}_{3\text{m}} = -9.8 - 2.2 + \text{CL} + \text{DC} + \text{AG}$$

D = 3mDistance

CL = 10.9 dB Cable Loss

DC = 0 Duty Cycle Correction Factor (Duty Cycle > 98%)

AG = 2 dB Antenna Gain (Lowest value that can be used per the KDB)

Offset = 1.2 dB

8.3 Test Site

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Environmental Conditions

Temperature: 23.8 °C

Relative Humidity: 54.1 %

8.4 Test Equipment

Test Date: 21-Jul-2016

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SIGNAL ANALYZER	FSV30	ROHDE & SCHWARZ	B085749	8-Oct-2017
10DB ATTENUATOR	10DB	ROHDE & SCHWARZ	B095593	5-Aug-2016
COAXIAL CABLE	1134	GORE	B094785	4-Aug-2016
COAXIAL CABLE	SUCOFLEX 102	HUBER&SUHNER	B079822	4-Aug-2016
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	20-Jun-2017

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle.

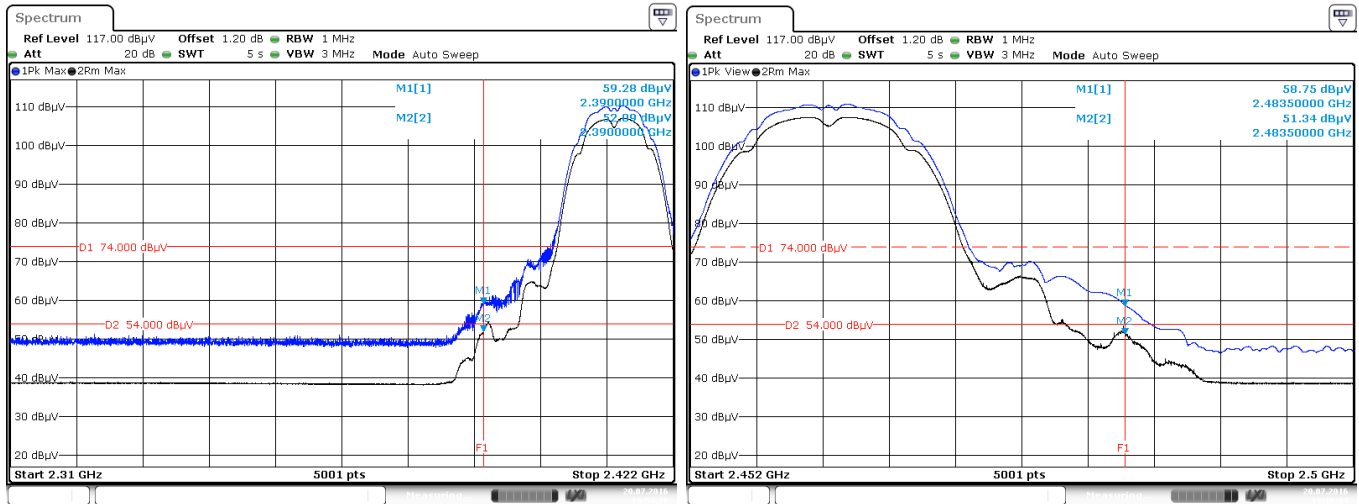
8.5 Test Data – Restricted Band Edge (Conducted)

802.11b

Lower band edge / Upper band edge

Channel 1 (18dBm Target) / Channel 11 (18dBm Target)

1Mbit/s



Date: 20.JUL.2016 14:54:26

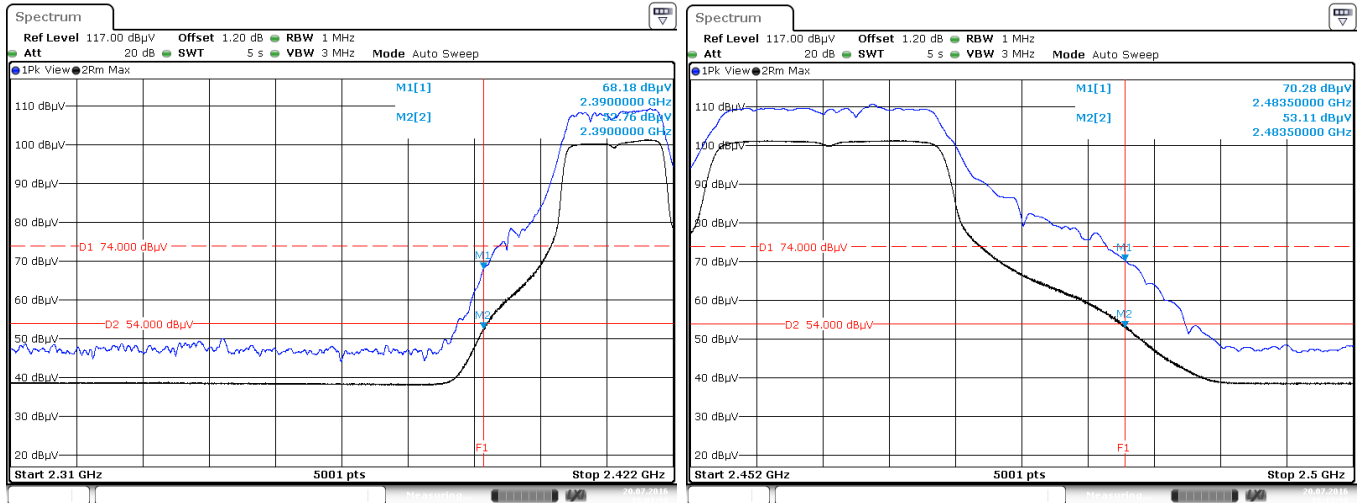
Date: 20.JUL.2016 15:16:05

802.11g

Lower band edge / Upper band edge

Channel 1 (13.5dBm Target) / Channel 11 (13.5dBm Target)

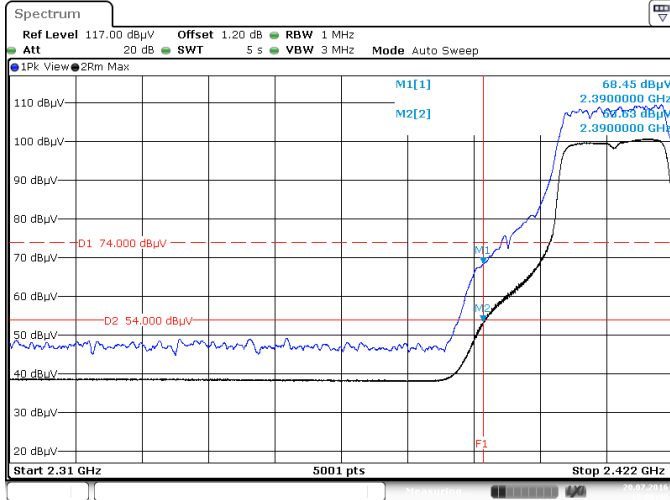
6Mbit/s



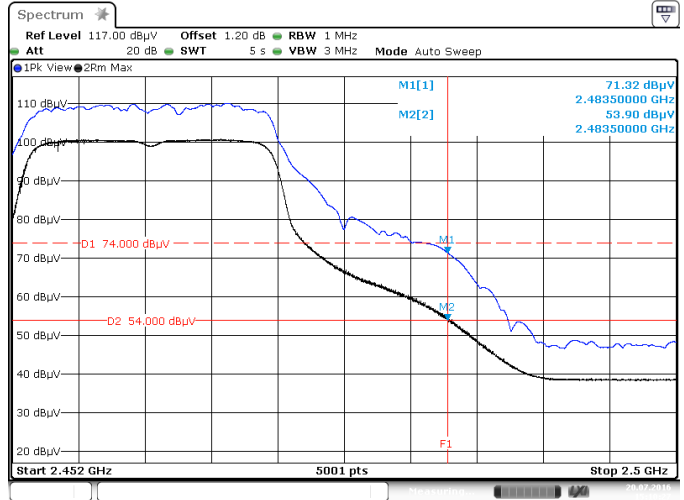
Date: 20.JUL.2016 15:01:38

Date: 20.JUL.2016 15:13:38

802.11n
 Lower band edge / Upper band edge
 Channel 1 (14dBm Target) / Channel 11 (14dBm Target)
 MCS0



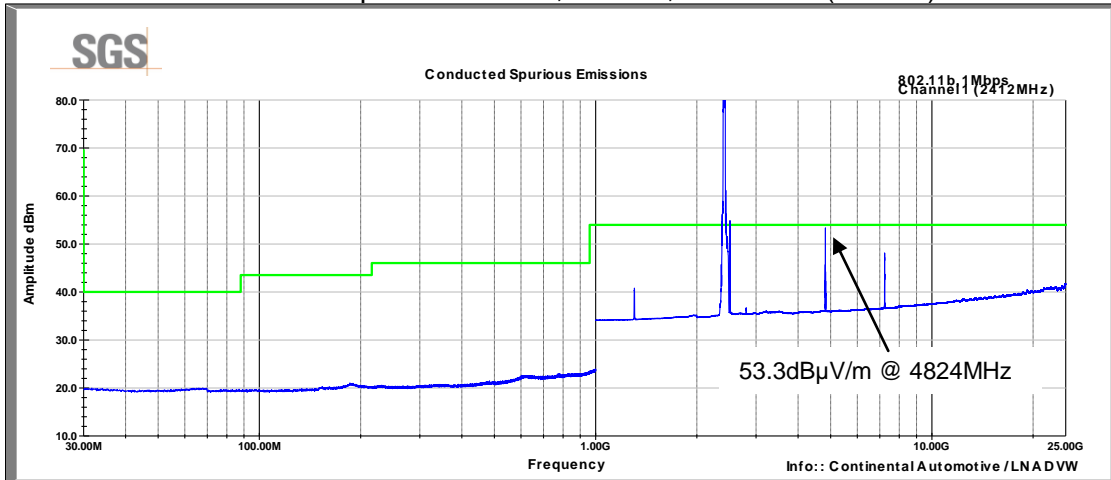
Date: 20.JUL.2016 15:06:44



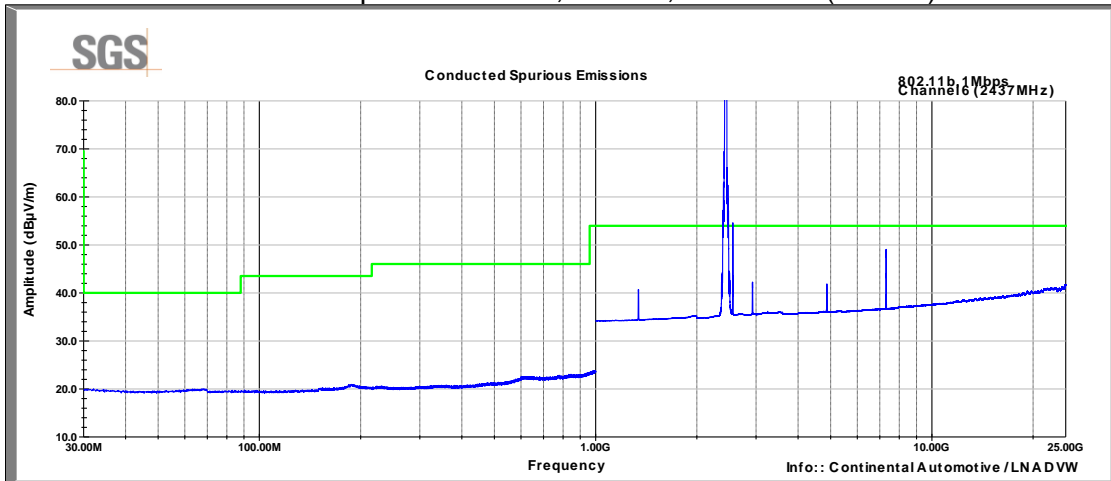
Date: 20.JUL.2016 15:10:28

8.6 Test Data – Restricted Bands (Conducted)

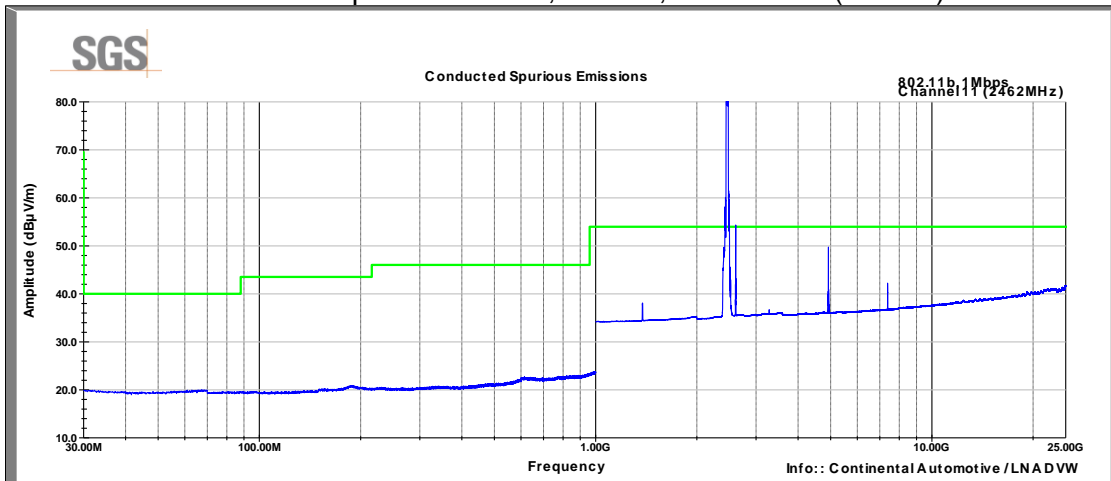
Conducted Spurs – 802.11b, 1Mbit/s, Channel 1 (17dBm)



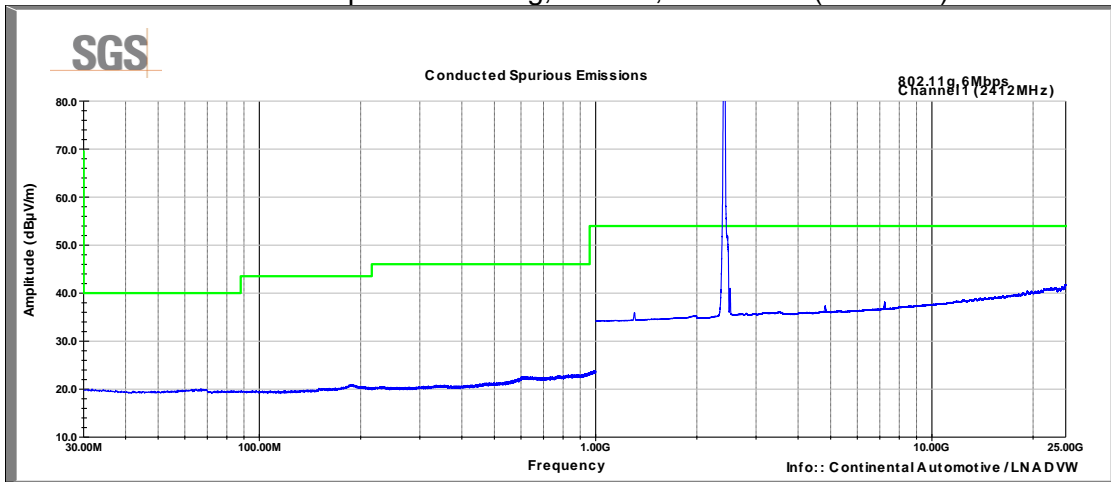
Conducted Spurs – 802.11b, 1Mbit/s, Channel 6 (18dBm)



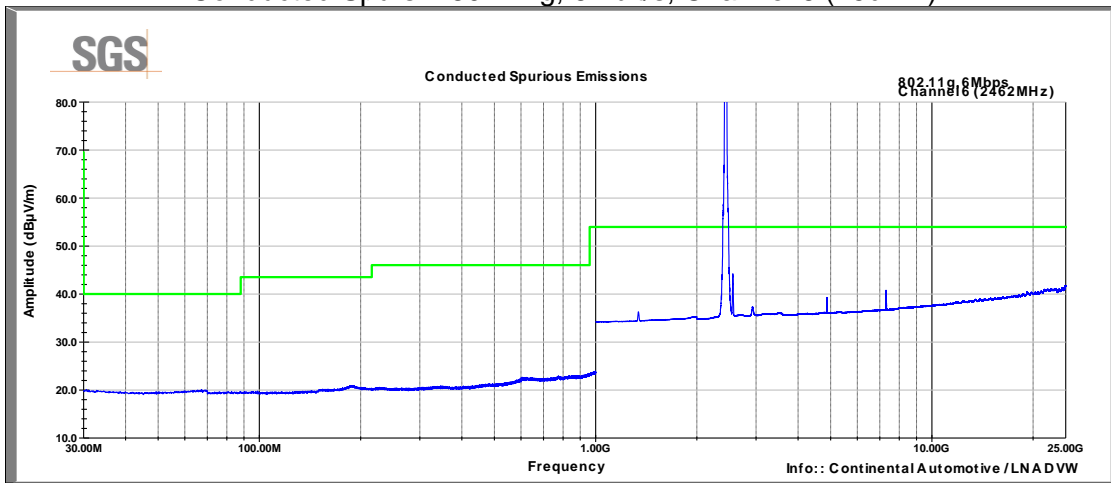
Conducted Spurs – 802.11b, 1Mbit/s, Channel 11 (17dBm)



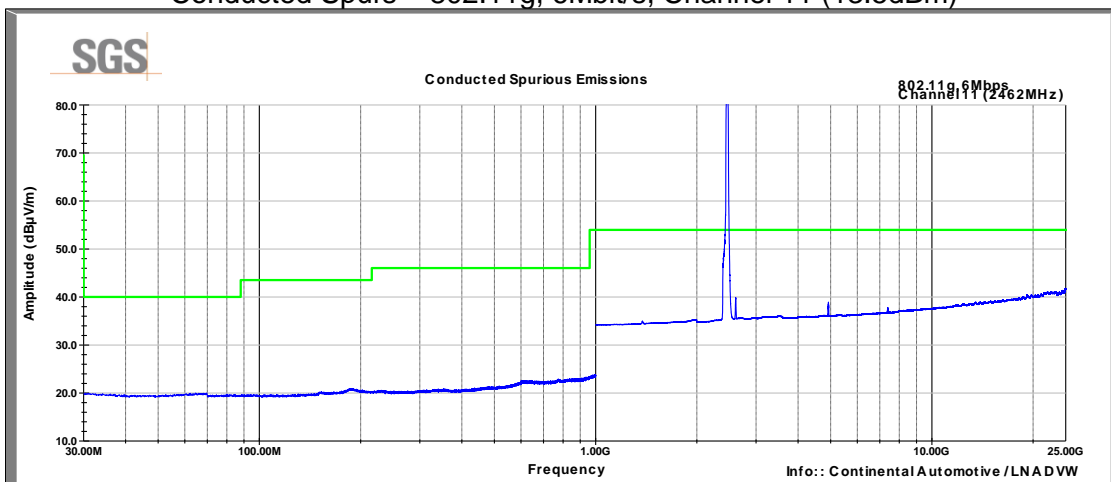
Conducted Spurs – 802.11g, 6Mbit/s, Channel 1 (13.5dBm)



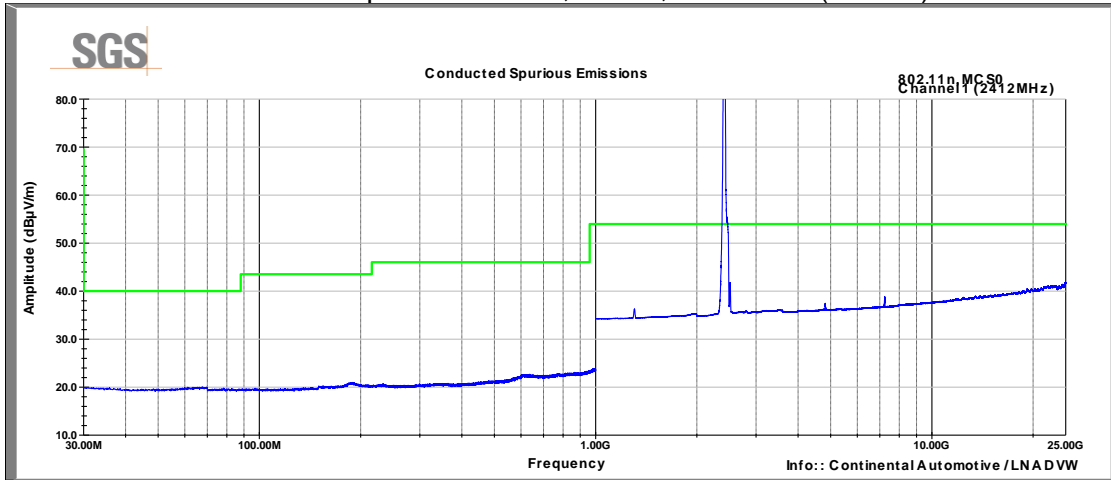
Conducted Spurs – 802.11g, 6Mbit/s, Channel 6 (15dBm)



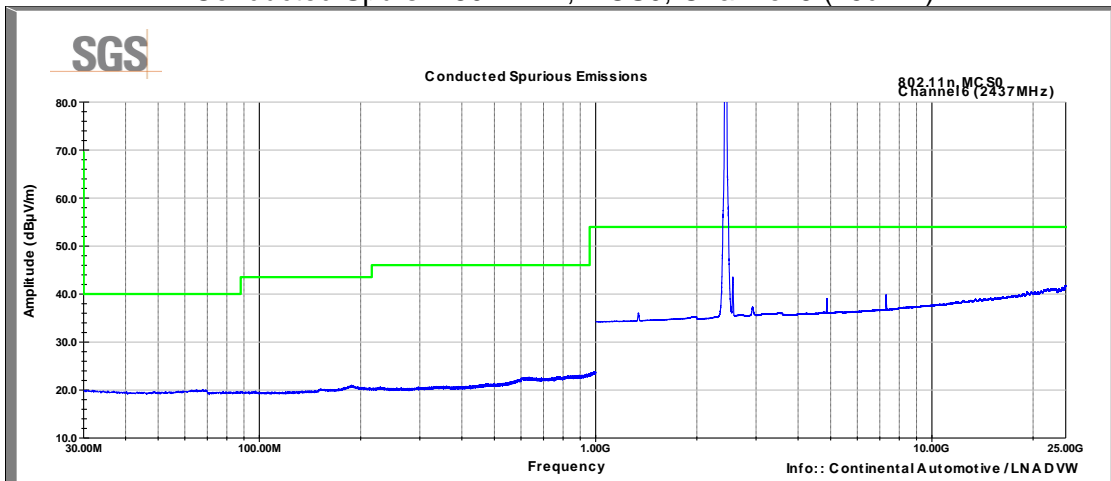
Conducted Spurs – 802.11g, 6Mbit/s, Channel 11 (13.5dBm)



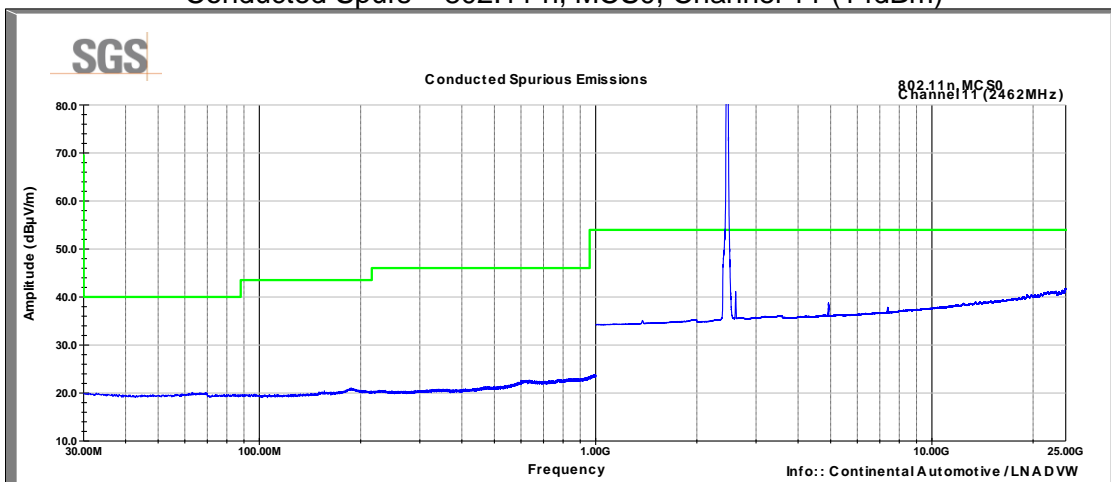
Conducted Spurs – 802.11n, MCS0, Channel 1 (14dBm)



Conducted Spurs – 802.11 n, MCS0, Channel 6 (15dBm)



Conducted Spurs – 802.11 n, MCS0, Channel 11 (14dBm)



9 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	02 August 2016