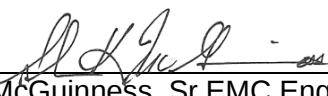


RF Test Report

Project Number: 4866869**Proposal:** SUW-202201002154**Report Number:** 4866869EMC01**Revision Level:** 0**Client:** EaseAlert, LLC**Equipment Under Test:** Wearable Alert**Model Number:** EaseAlert**FCC ID:** 2A4C4-EASEALERT**IC:** 28217-EASEALERT**Applicable Standards:** ANSI C63.10: 2013 (FCC Part 15 Subpart C, § 15.247)**RSS-247, Issue 2****RSS-GEN Issue 5****Report issued on:** 02 March 2022**Test Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:
Jeremy Pickens, RF Lab Manager**Reviewed by:**
Shawn McGuinness, Sr. EMC Engineer

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1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(a)(2)	RSS-247 5.2(a) RSS-GEN 6.7	Compliant
Peak Output Power	15.247(b)(3)	RSS-247 5.4 (d)	Compliant
Power Spectral Density	15.247(e)	RSS-247 5.2 (b)	Compliant
Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 5.5	Compliant
Field Strength of Spurious Radiation	15.247(d)	RSS-247 5.5	Compliant
Emissions in Restricted Frequency Bands	15.205, 15.209	RSS-GEN 8.9, 8.10	Compliant
Antenna Requirement	15.203	RSS-GEN 6.8	Compliant ¹
AC Powerline Conducted Emissions	15.107, 15.207	RSS-GEN 8.8	NA ²

1) The device utilizes a PCB trace antenna

2) The device has no facility for connection to the AC mains.

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Applicant Information

Name: EaseAlert, LLC
Address: 1903 Sunrise Dr
City, State, Zip, Country: Fernandina Beach, FL 32034, 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
Designation Number: US1126
CAB Identifier: US0186

2.3 General Information of EUT

Product Description: Wearable Alert
Model Number: EaseAlert
Serial Number: W1209996S04446

Frequency Range: 2402 – 2480 MHz
Data Modes: GFSK – 250kbps
Antenna: PCB Trace, 5dBi

Rated Voltage: 2.5 – 3.3Vdc
Test Voltage: 2.8Vdc

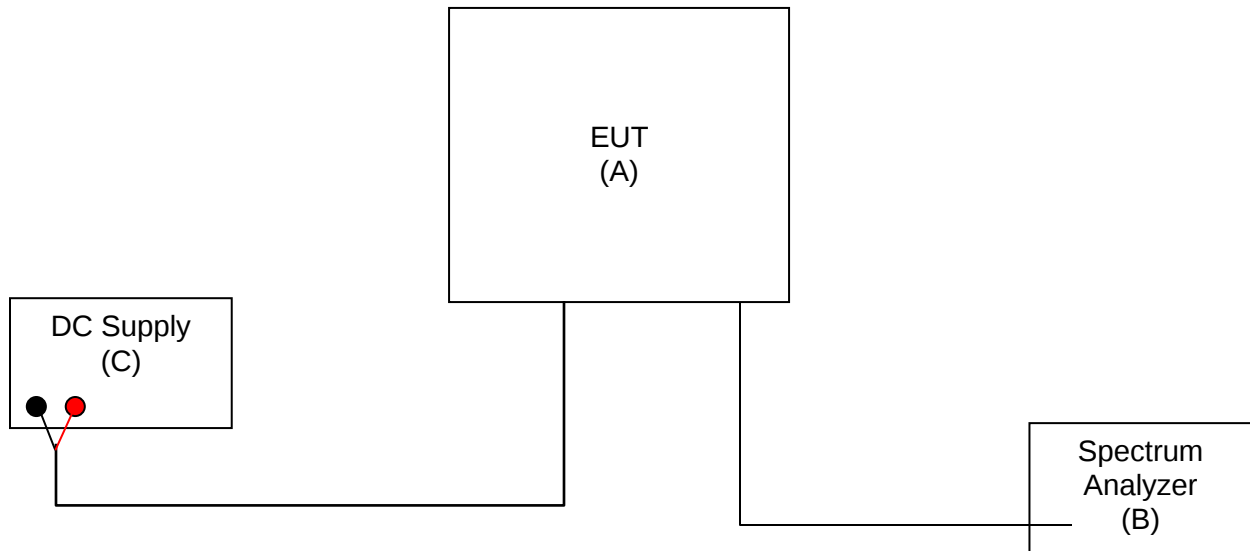
Sample Received Date: 07 January 2022
Dates of testing: 26– 27 January 2022

2.4 Operating Modes and Conditions

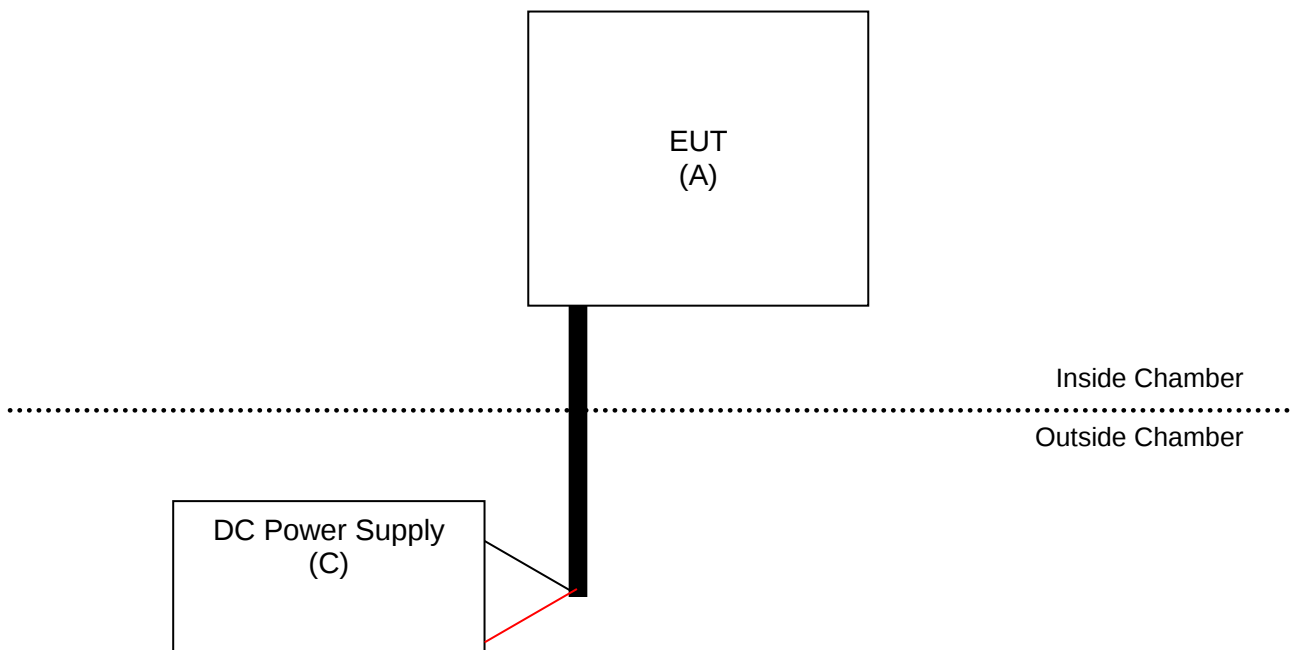
Using a programming tool (MPLAB XC Compiler), three separate devices were configured to begin constant modulated transmission upon power-up as follows:

- Unit #1: 2402MHz, 250kbps, Max Power
- Unit #2: 2440MHz, 250kbps, Max Power
- Unit #3: 2480MHz, 250kbps, Max Power

2.5 EUT Connection Block Diagram – Conducted Measurements



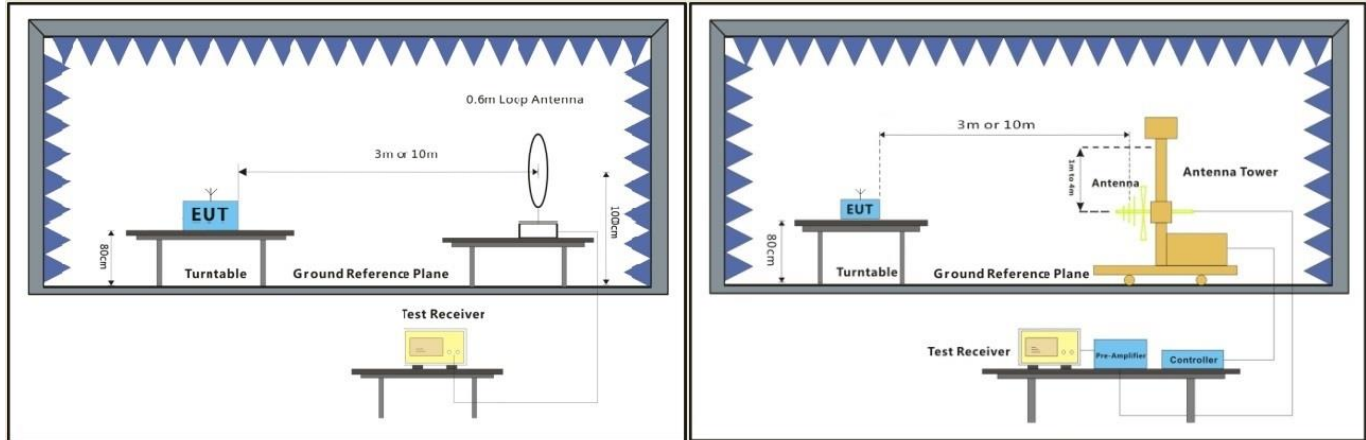
2.6 EUT Connection Block Diagram – Radiated Measurements



2.7 System Configurations

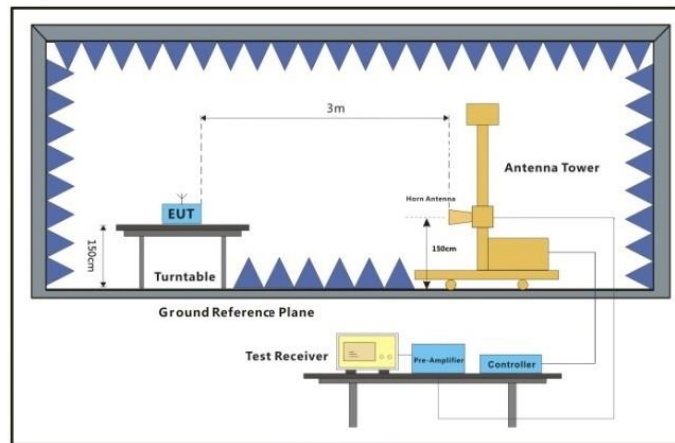
Device reference	Manufacturer	Description	Model Number	Serial Number
A	EaseAlert, LLC	Wearable Alert	EaseAlert	W1209996S04446
B	Rohde & Schwarz	Spectrum Analyzer	FSV30	101595
C	Rigol	DC Power Supply	DP711	DP7A202200419

2.8 Configuration Diagrams (Radiated)



Below 30MHz

30MHz-1GHz



Above 1GHz

3 Bandwidth

3.1 Test Result

Test Description	Test Specification		Test Result
6 dB Bandwidth 99% Occupied Bandwidth	15.247(a)(2)	RSS-247 5.2(a) RSS-GEN 6.7	Compliant

3.2 Test Method

The procedures from ANSI C63.10: 2013 clause 11.8 and 558074 D01 DTS Meas Guidance v05r2 were used to determine the 6 dB bandwidth.

The procedures from ANSI C63.10: 2013 clause 6.9.2 were used to measure the 99% Occupied Bandwidth.

3.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 20.8 °C

Relative Humidity: 33.8 %

Atmospheric Pressure: 98.0 kPa

3.4 Test Equipment

Test End Date: 1/26/2022

Tester: JOP

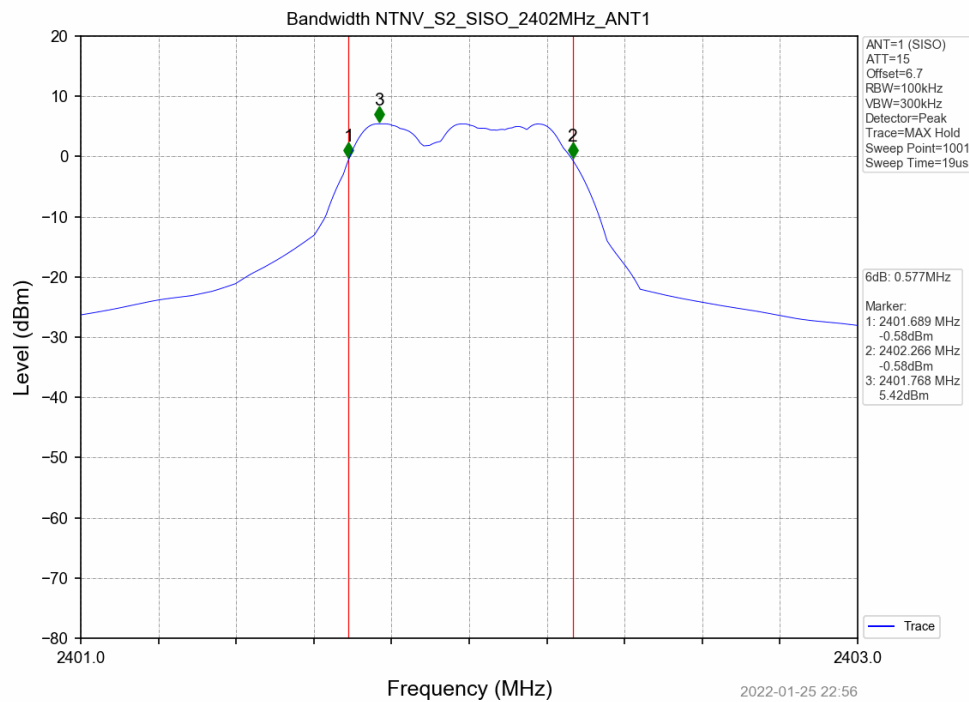
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 6DB	BW-S6W2	MINI-CIRCUITS	15023	7-Oct-2021	7-Oct-2022
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20108	16-Mar-2021	16-Mar-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	4-Jan-2022	4-Jan-2024

3.5 Test Data – 6dB Bandwidth

Frequency (MHz)	TX Type	ANT No.	6dB BW (MHz)	Limit (MHz)	Verdict
2402	SISO	1	0.577	≥ 0.5	PASS
2440	SISO	1	0.756	≥ 0.5	PASS
2480	SISO	1	1.012	≥ 0.5	PASS

Sample Plot

Low Channel (2402MHz)

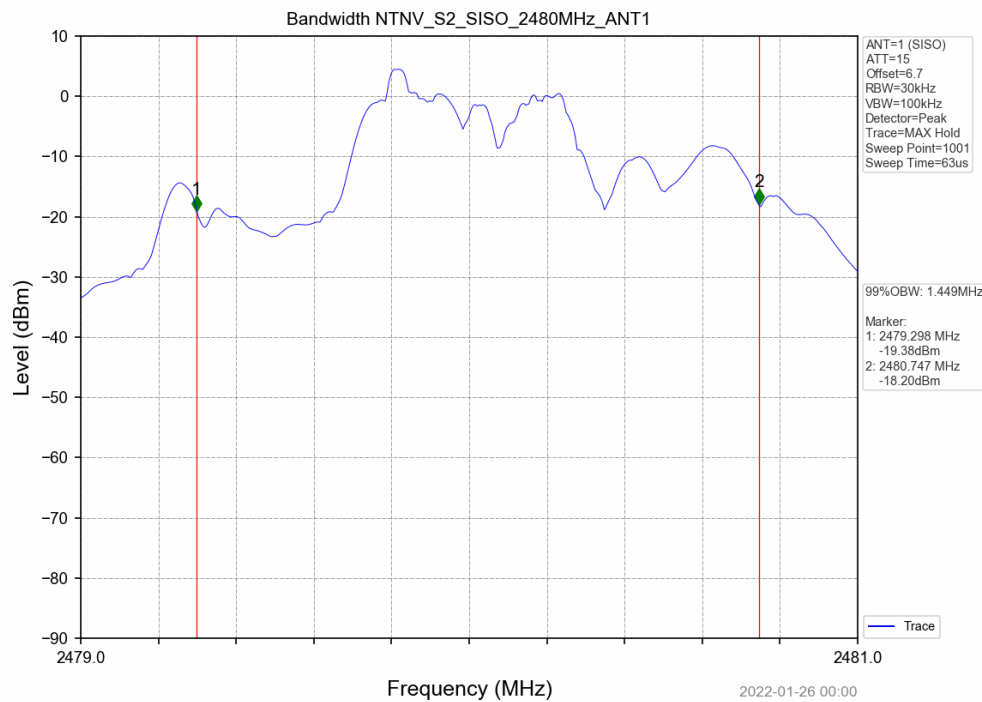


3.6 Test Data – 99% Bandwidth

Frequency (MHz)	TX Type	ANT No.	99% OBW (MHz)	Limit (MHz)	Verdict
2402	SISO	1	0.562	≥ 0.5	Reported
2440	SISO	1	0.855	≥ 0.5	Reported
2480	SISO	1	1.449	≥ 0.5	Reported

Sample Plot

High Channel (2480MHz)



4 Peak Output Power

4.1 Test Result

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

4.2 Test Method

Fundamental peak power measurements were recorded using the procedures from ANSI C63.10: 2013 clause 11.9 and KDB 558074 D01 Measurement Guidance v05r2.

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

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 20.8 °C

Relative Humidity: 33.8 %

Atmospheric Pressure: 98.0 kPa

4.4 Test Equipment

Test End Date: 1/26/2022

Tester: JOP

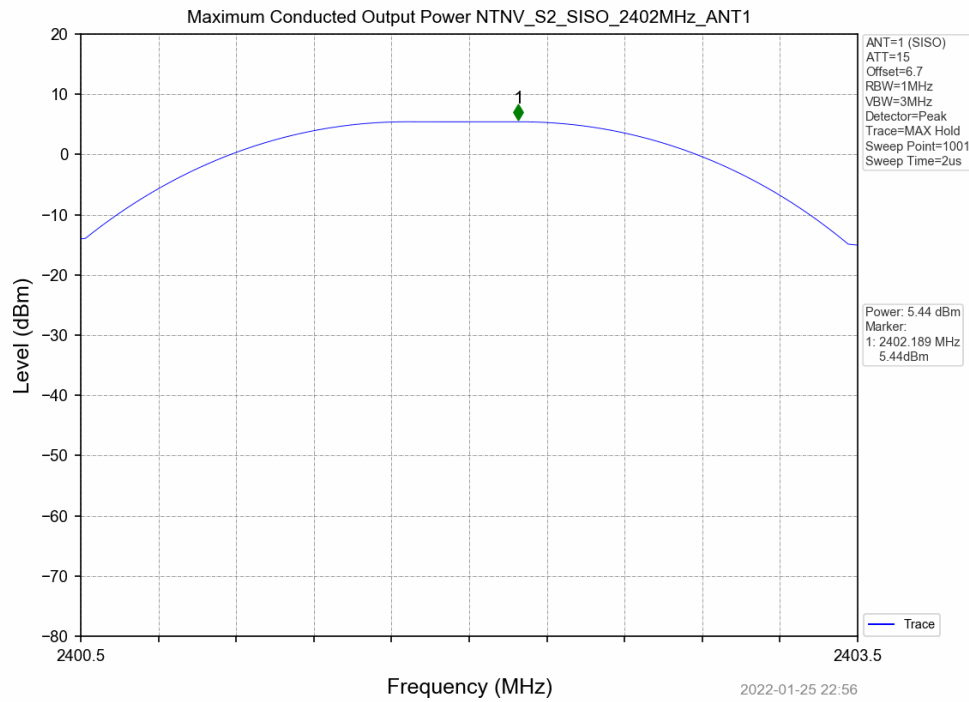
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 6DB	BW-S6W2	MINI-CIRCUITS	15023	7-Oct-2021	7-Oct-2022
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20108	16-Mar-2021	16-Mar-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	4-Jan-2022	4-Jan-2024

4.5 Test Data

Frequency (MHz)	TX Type	ANT No.	Peak Output Power (dBm)	Limit (dBm)	Verdict
2402	SISO	1	5.44	30	PASS
2440	SISO	1	5.08	30	PASS
2480	SISO	1	4.50	30	PASS

Sample Plot

Low Channel (2402MHz)



5 Power Spectral Density

5.1 Test Result

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

5.2 Test Method

Power spectral density measurements were recorded using the procedures from ANSI C63.10: 2013 clause 11.10 and KDB 558074 D01 Measurement Guidance v05r2.

Limit

The limit is 8 dBm.

5.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 20.8 °C

Relative Humidity: 33.8 %

Atmospheric Pressure: 98.0 kPa

5.4 Test Equipment

Test End Date: 1/26/2022

Tester: JOP

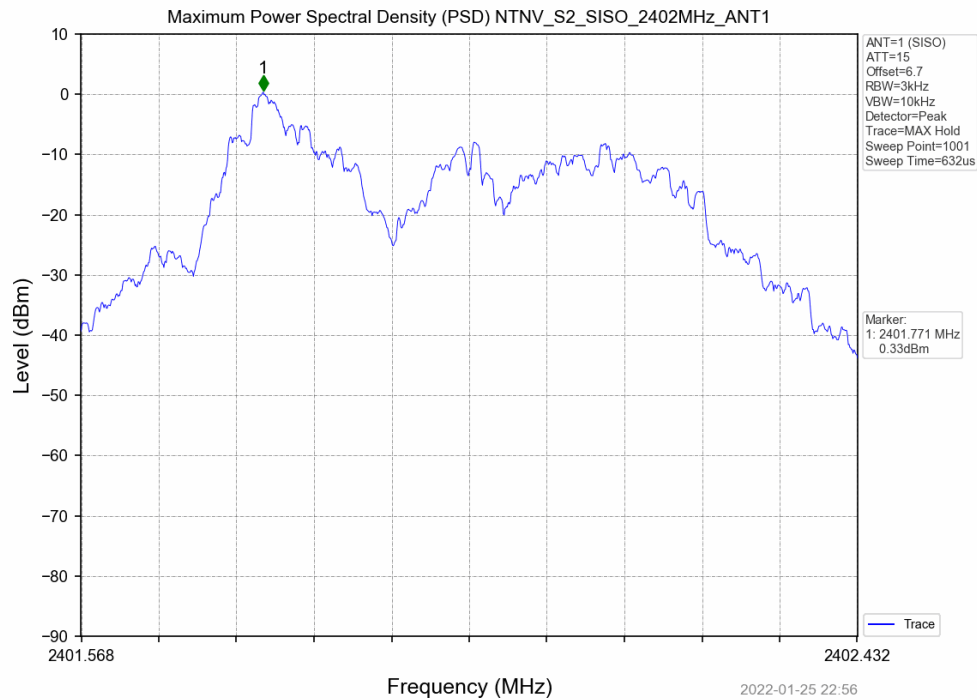
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 6DB	BW-S6W2	MINI-CIRCUITS	15023	7-Oct-2021	7-Oct-2022
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20108	16-Mar-2021	16-Mar-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	4-Jan-2022	4-Jan-2024

5.5 Test Data

Frequency (MHz)	TX Type	ANT No.	Peak PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2402	SISO	1	0.33	≤8	PASS
2440	SISO	1	-0.36	≤8	PASS
2480	SISO	1	-1.06	≤8	PASS

Sample Plot

Low Channel (2402MHz)



6 Conducted Spurious Emissions / Band Edge

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 v05r2.

Lowest, middle, and highest channels were investigated.

Because the maximum conducted peak output power was used to determine compliance with the output power limits, the limit in any 100 kHz band outside of the authorized band is 20 dB below the maximum in-band peak level.

6.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 20.8 °C

Relative Humidity: 33.8 %

Atmospheric Pressure: 98.0 kPa

6.4 Test Equipment

Test End Date: 1/26/2022

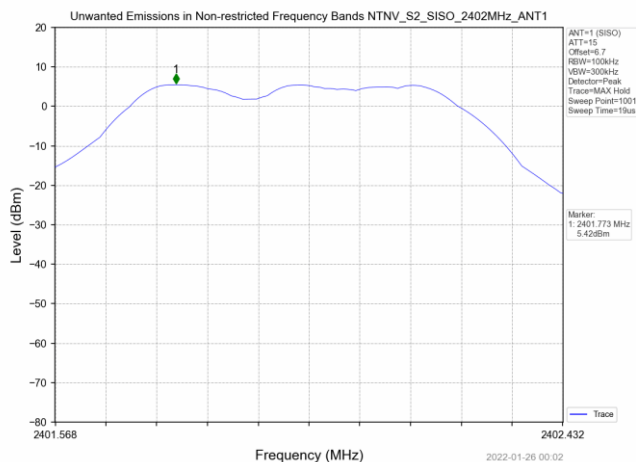
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 6DB	BW-S6W2	MINI-CIRCUITS	15023	7-Oct-2021	7-Oct-2022
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20108	16-Mar-2021	16-Mar-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	4-Jan-2022	4-Jan-2024

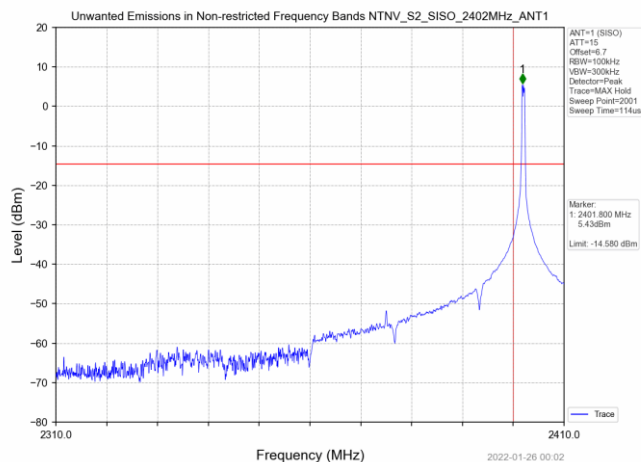
6.5 Test Data

Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limit (dBm)	Verdict
2402	SISO	1	Refer to test graph	-14.58	PASS
2440	SISO	1	Refer to test graph	-14.58	PASS
2480	SISO	1	Refer to test graph	-14.58	PASS

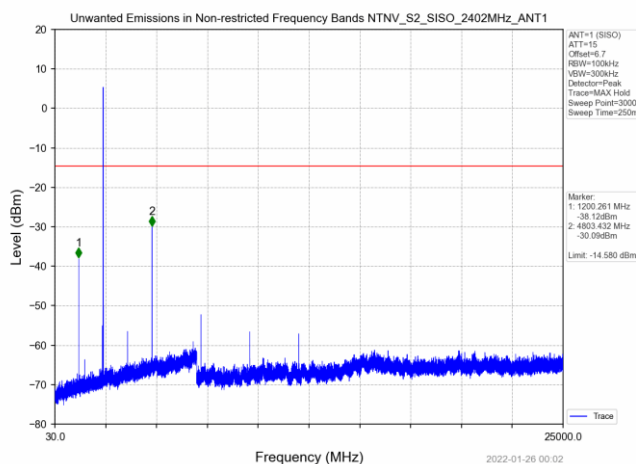
In-Band Reference



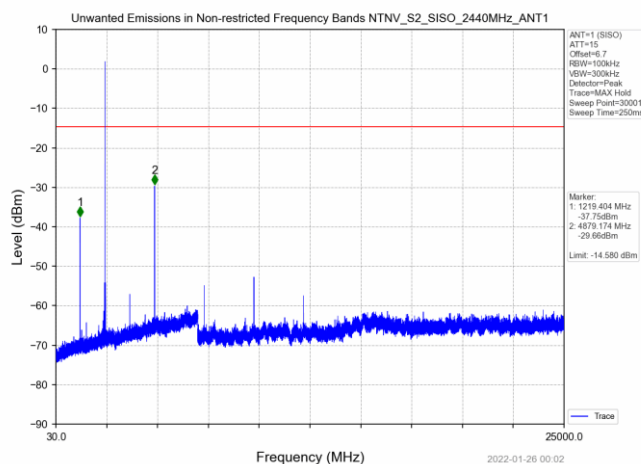
Lower Band Edge - Low Channel (2402MHz)



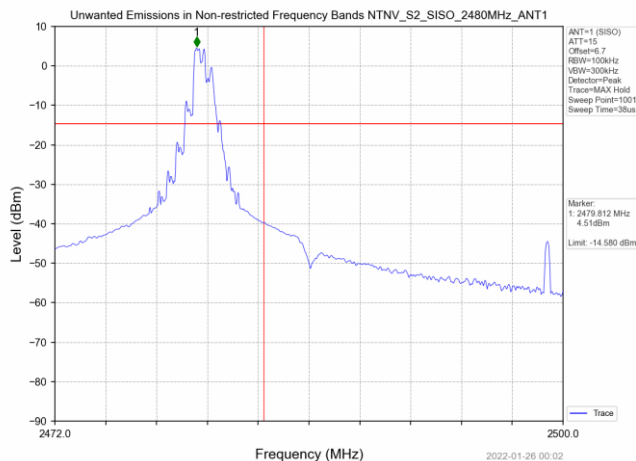
Full Spectrum - Low Channel (2402MHz)



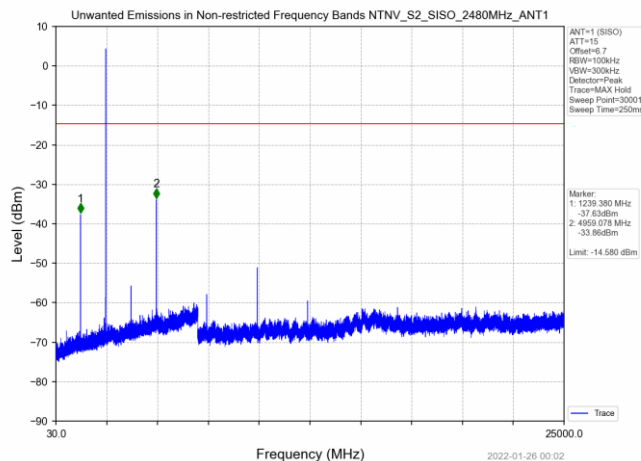
Full Spectrum - Mid Channel (2440MHz)



Upper Band Edge - High Channel (2480MHz)



Full Spectrum - High Channel (2480MHz)



7 Field Strength of Spurious Radiation (Restricted Bands)

7.1 Test Result

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

7.2 Test Method

The measurement methods defined in ANSI C63.10: 2013 were used.

Lowest, middle, and highest channels were investigated – the device was commanded to continuously transmit on low, middle, and high channels. Three orientations were investigated (X/Y/Z) and the worst-case data is reported (Y-Axis).

Test distance:

9k to 30 MHz - Near-field evaluation – no emissions detected

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 - Near-field evaluation – no emissions detected

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

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

Environmental Conditions

Temperature: 22.7 °C

Relative Humidity: 33.5 %

Atmospheric Pressure: 97.9 kPa

7.4 Test Equipment

Test End Date: 1/27/2022

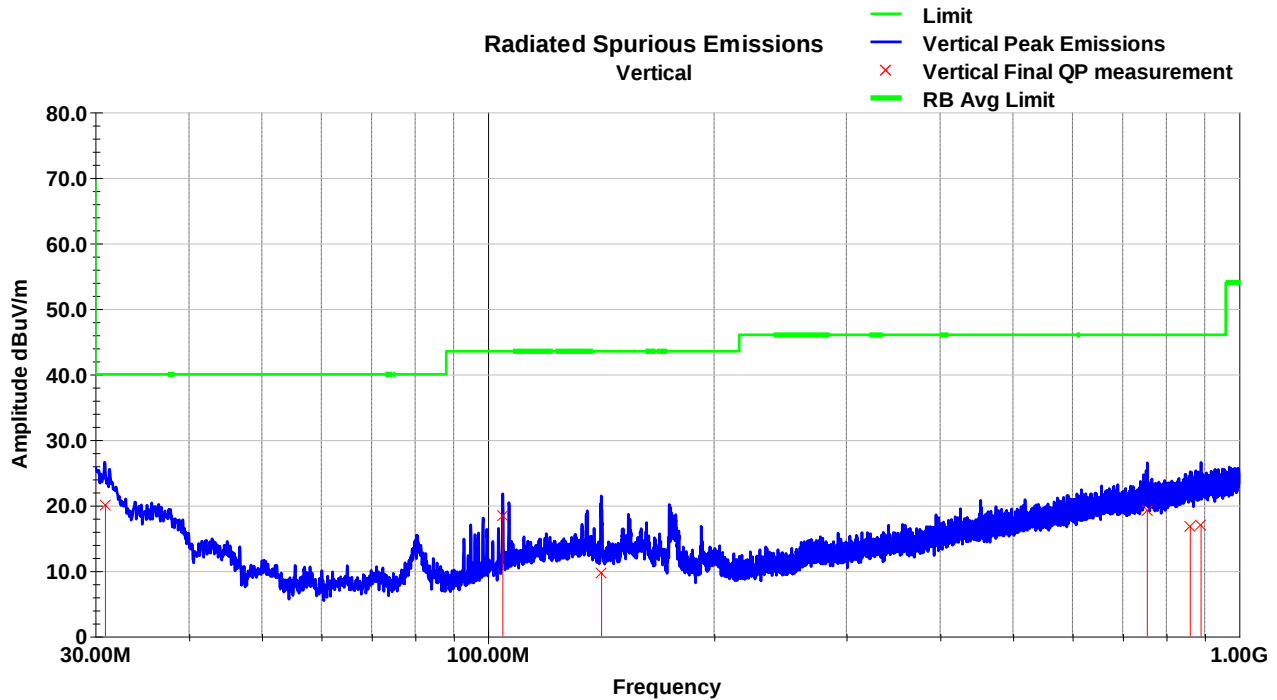
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF CABLE N/MALE-MALE	SUCOTEST 18	HUBER & SUHNER	19002	14-Feb-2022	14-Feb-2023
RF CABLE NM TO NF, 0.01-18GHZ	90-213-118	TELEDYNE STORM MICROWAVE	20117	17-Feb-2022	17-Feb-2023
N TO N RF CABLE	NC12-N1N1-276	MEGAPHASE	22001	10-Jan-2022	10-Jan-2023
ANTENNA, BILOG	JB6	SUNOL	B079689	24-Jun-2021	24-Jun-2022
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079699	15-Jul-2020	15-Jul-2022
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Aug-2021	24-Aug-2022
FILTER, HIGH PASS, >2800MHZ	HPM50111	MICRO-TRONICS	B085747	6-Jul-2021	6-Jul-2022
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	7-Jul-2021	7-Jul-2022
RECEIVER	ESW44	ROHDE & SCHWARZ	S/N: 101894	24-Jun-2021	24-Jun-2022

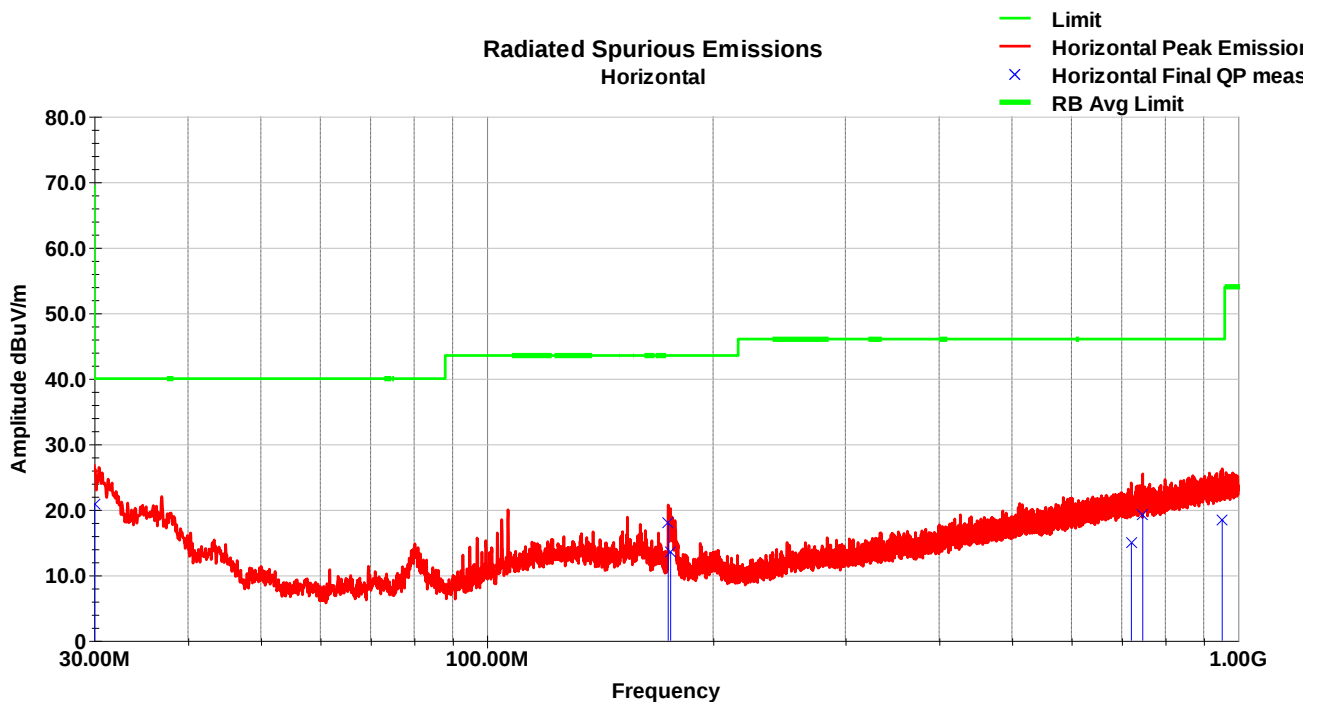
7.5 Test Data – Peak Plots

Between 30MHz and 1000MHz, there was no significant deviation with respect to axis or channel

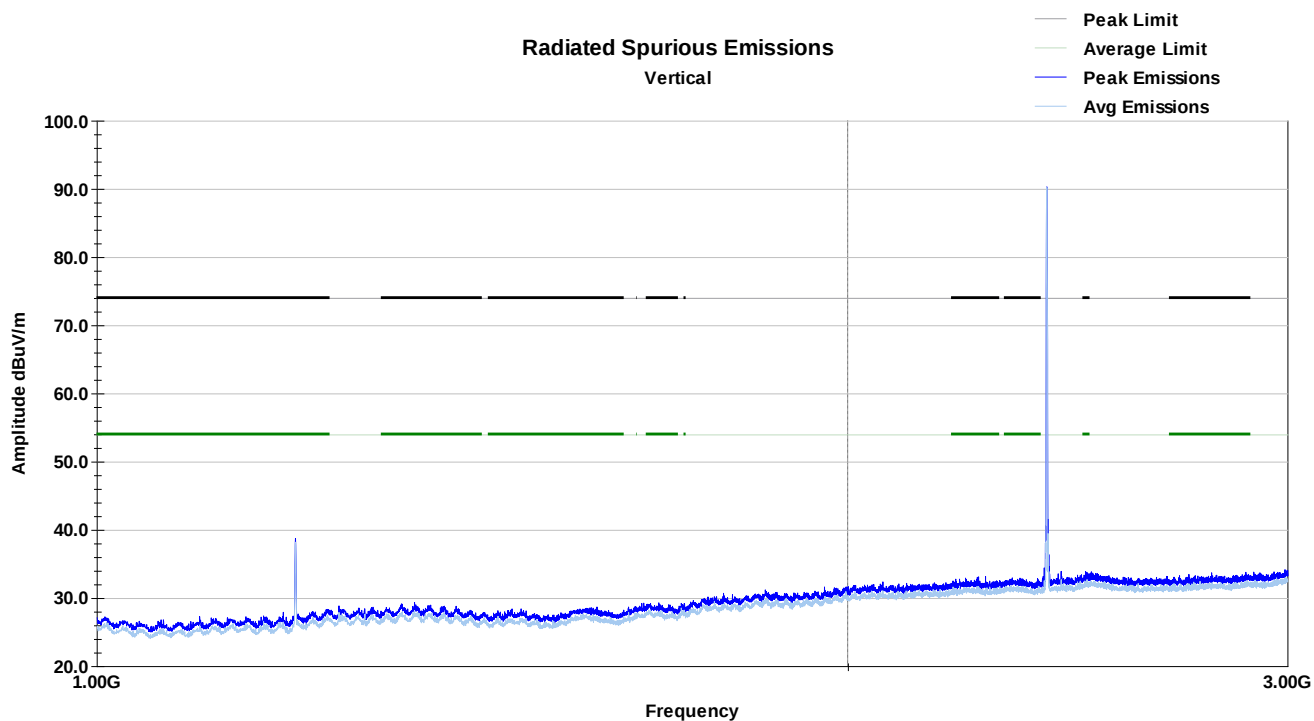
Vertical Radiated Spurious Emissions – 30-1000MHz (LCH)



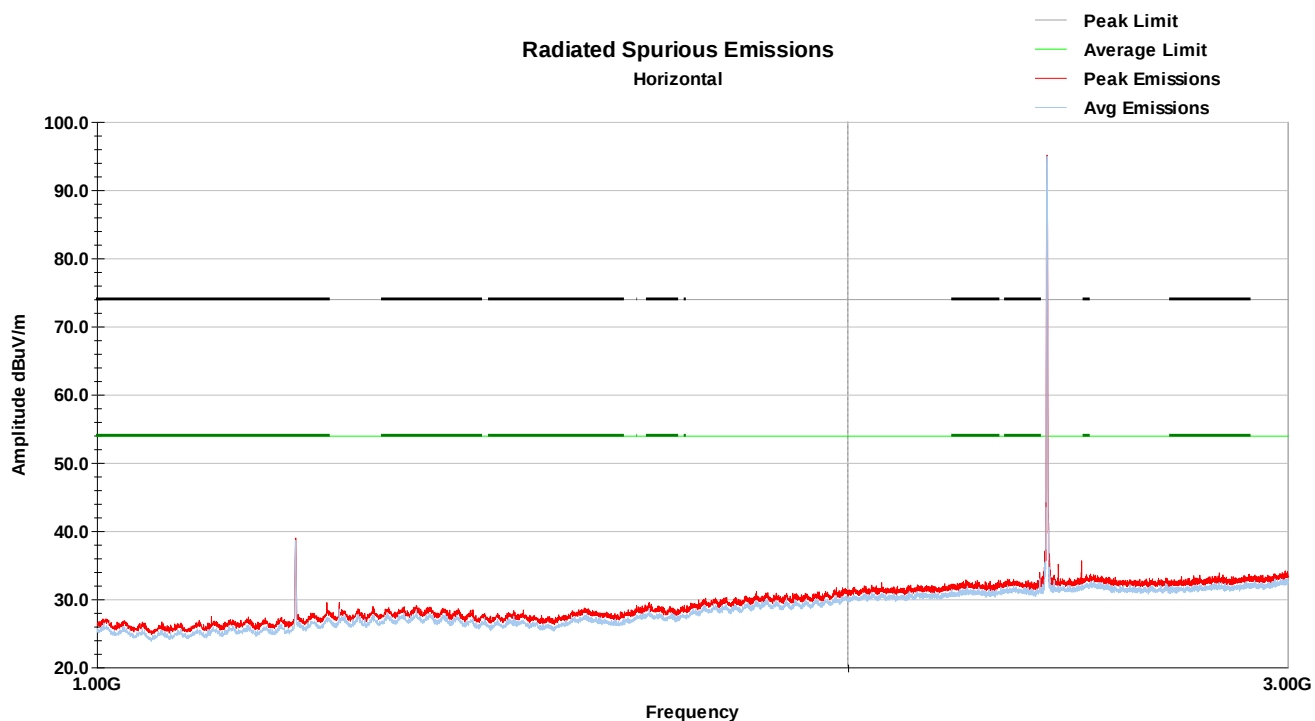
Horizontal Radiated Spurious Emissions – 30-1000MHz (LCH)



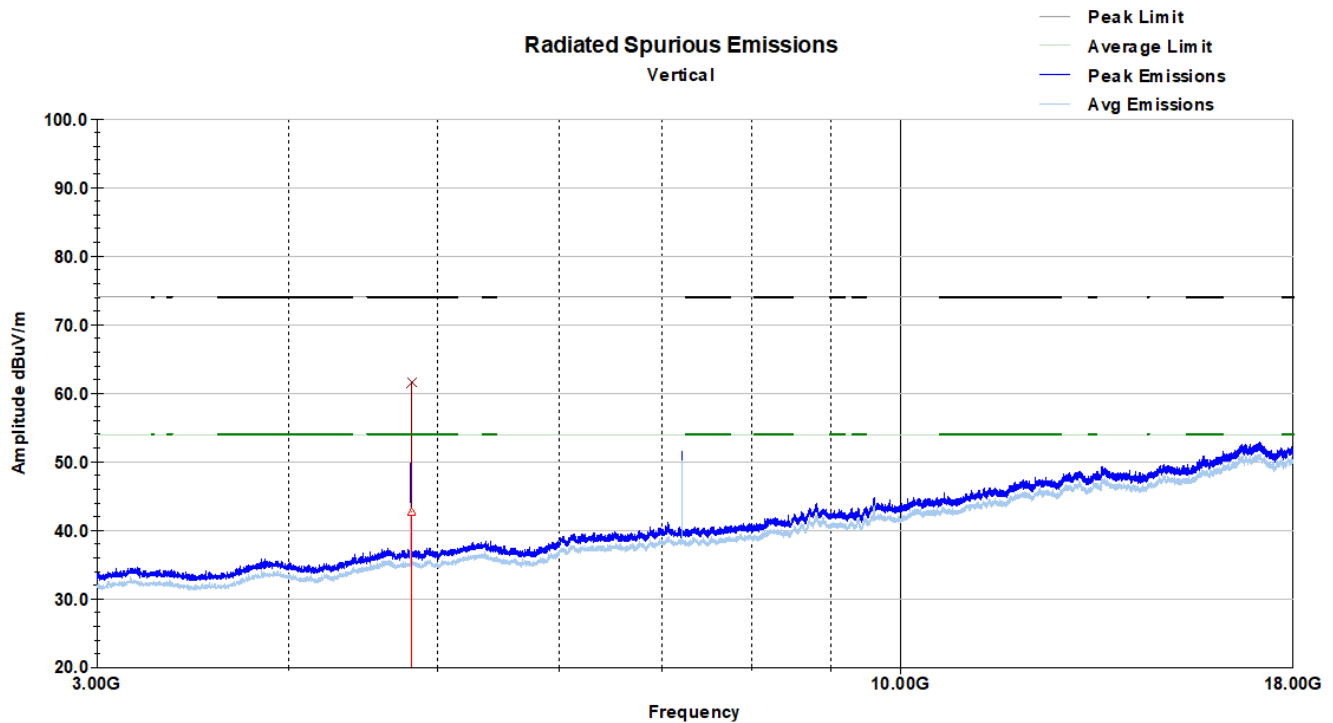
Vertical Radiated Spurious Emissions – 1-3GHz (LCH)



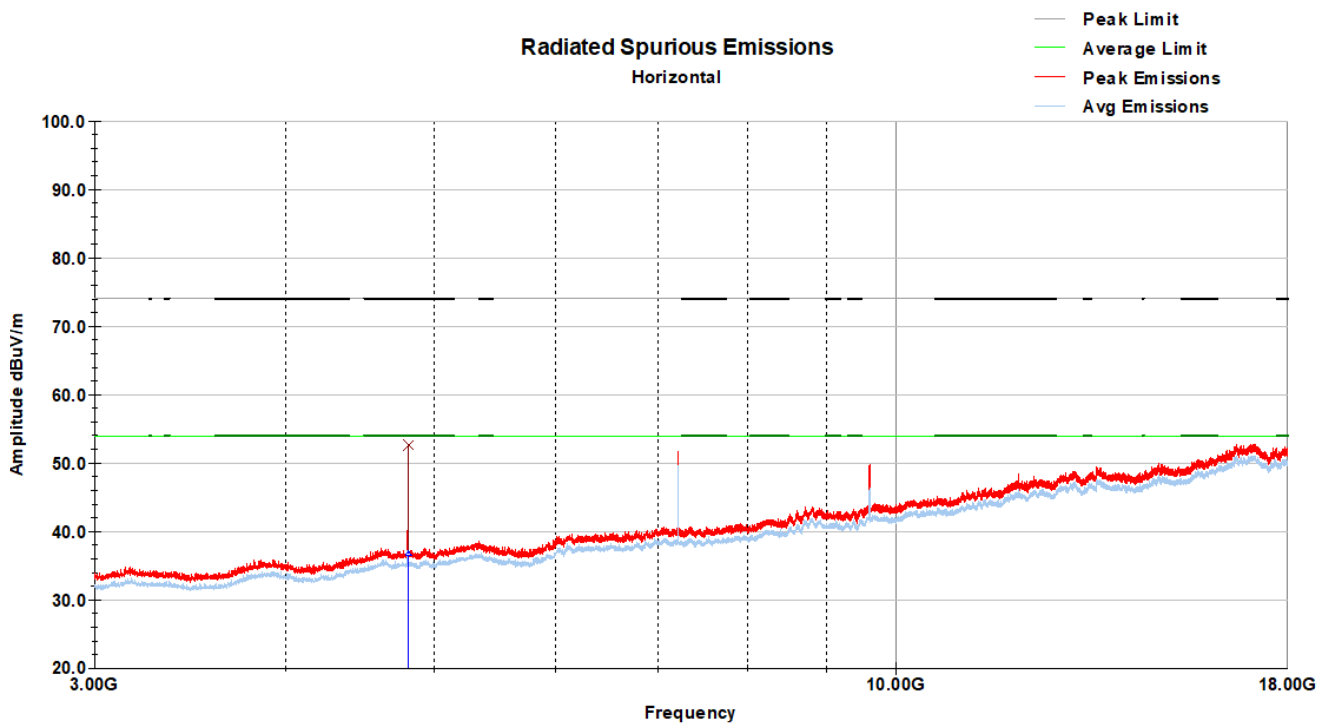
Horizontal Radiated Spurious Emissions – 1-3GHz (LCH)



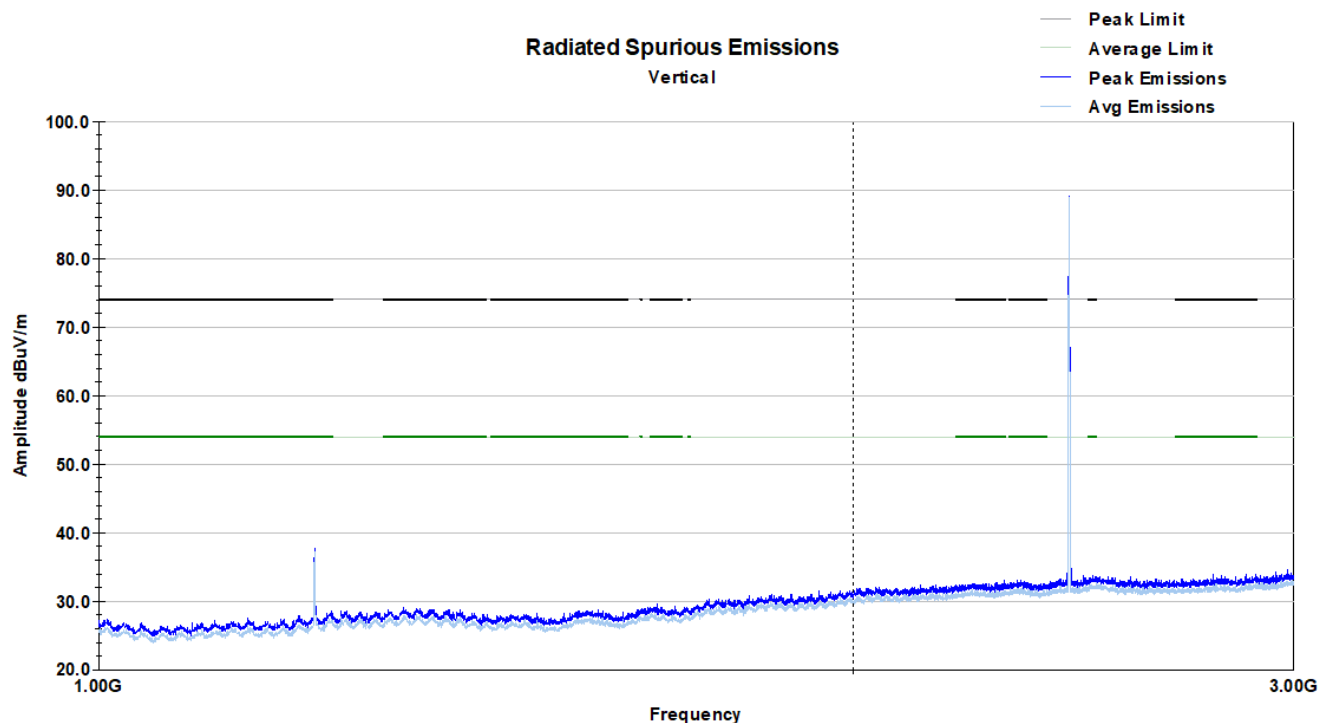
Vertical Radiated Spurious Emissions – 3-18GHz (LCH)



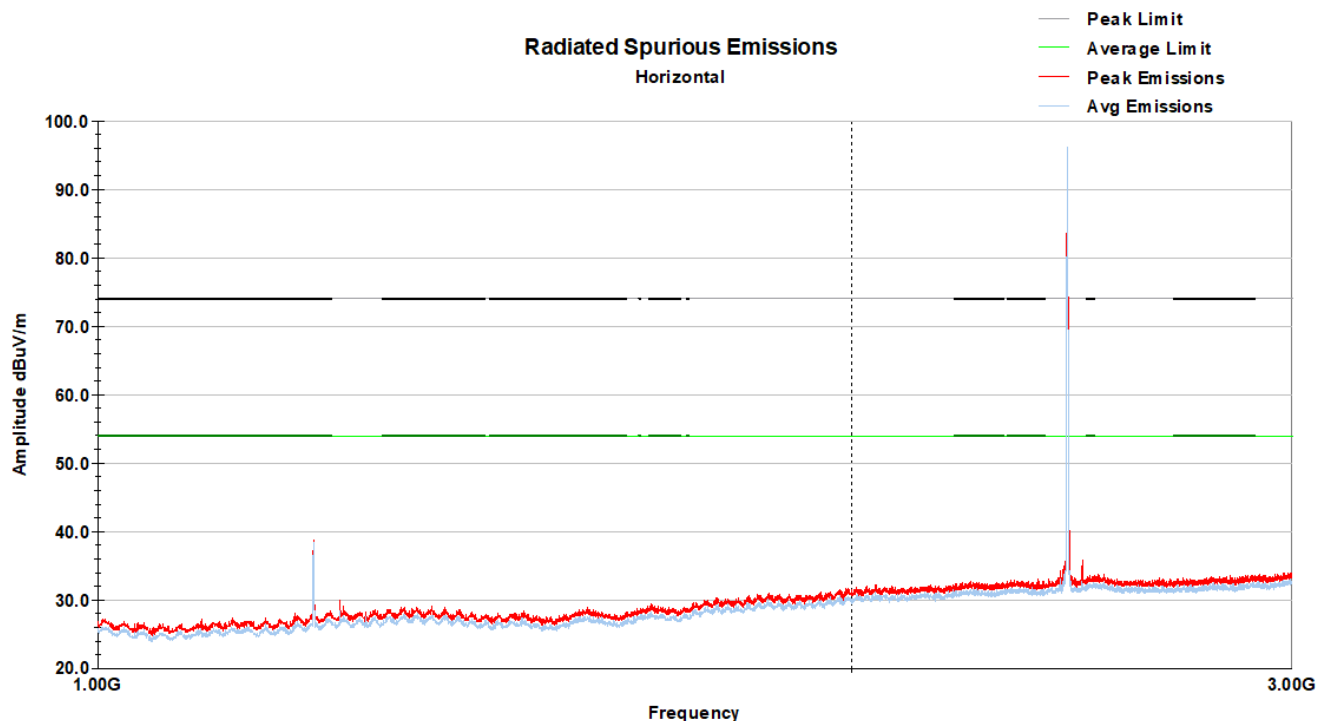
Horizontal Radiated Spurious Emissions – 3-18GHz (LCH)



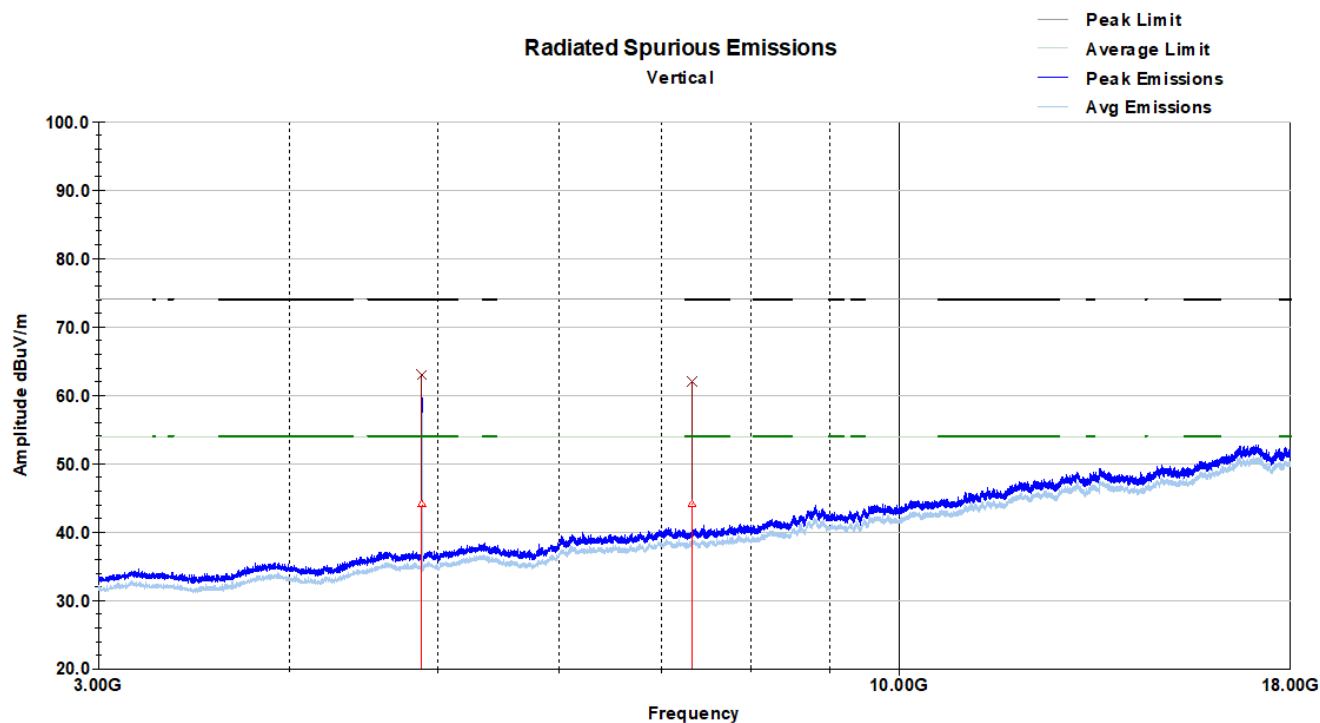
Vertical Radiated Spurious Emissions – 1-3GHz (MCH)



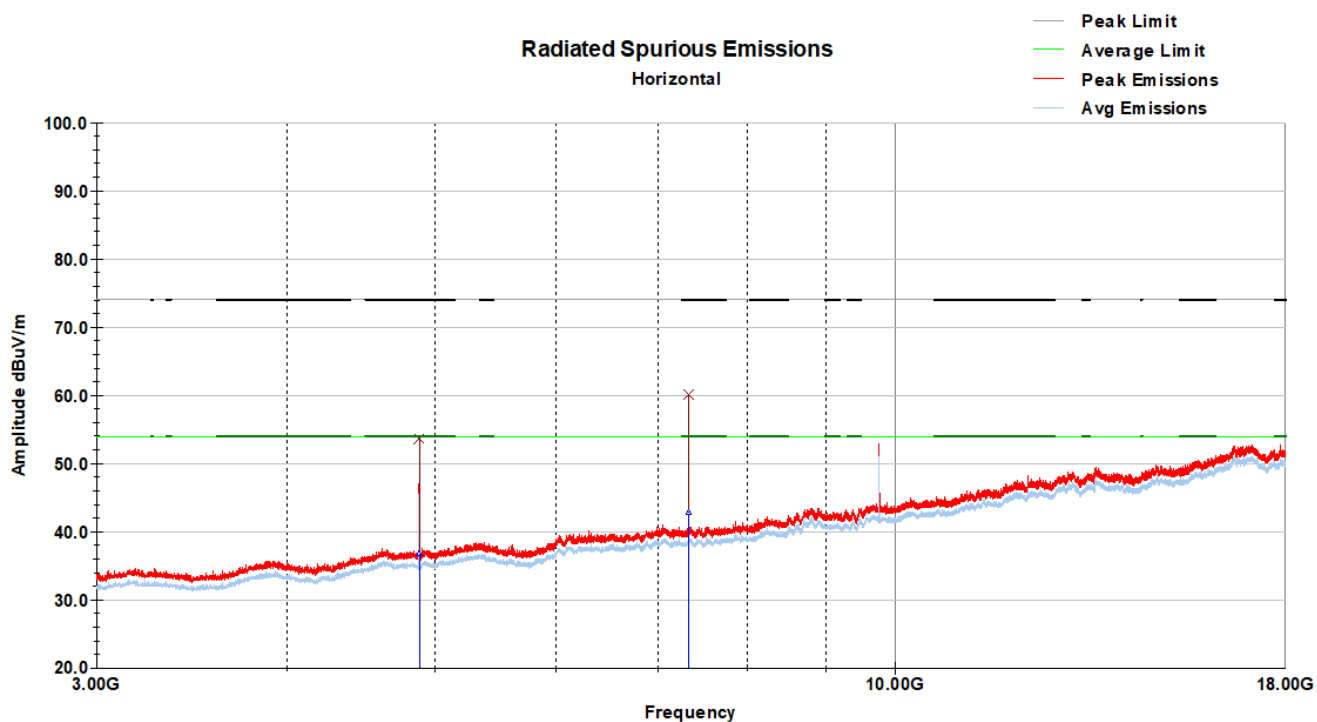
Horizontal Radiated Spurious Emissions – 1-3GHz (MCH)



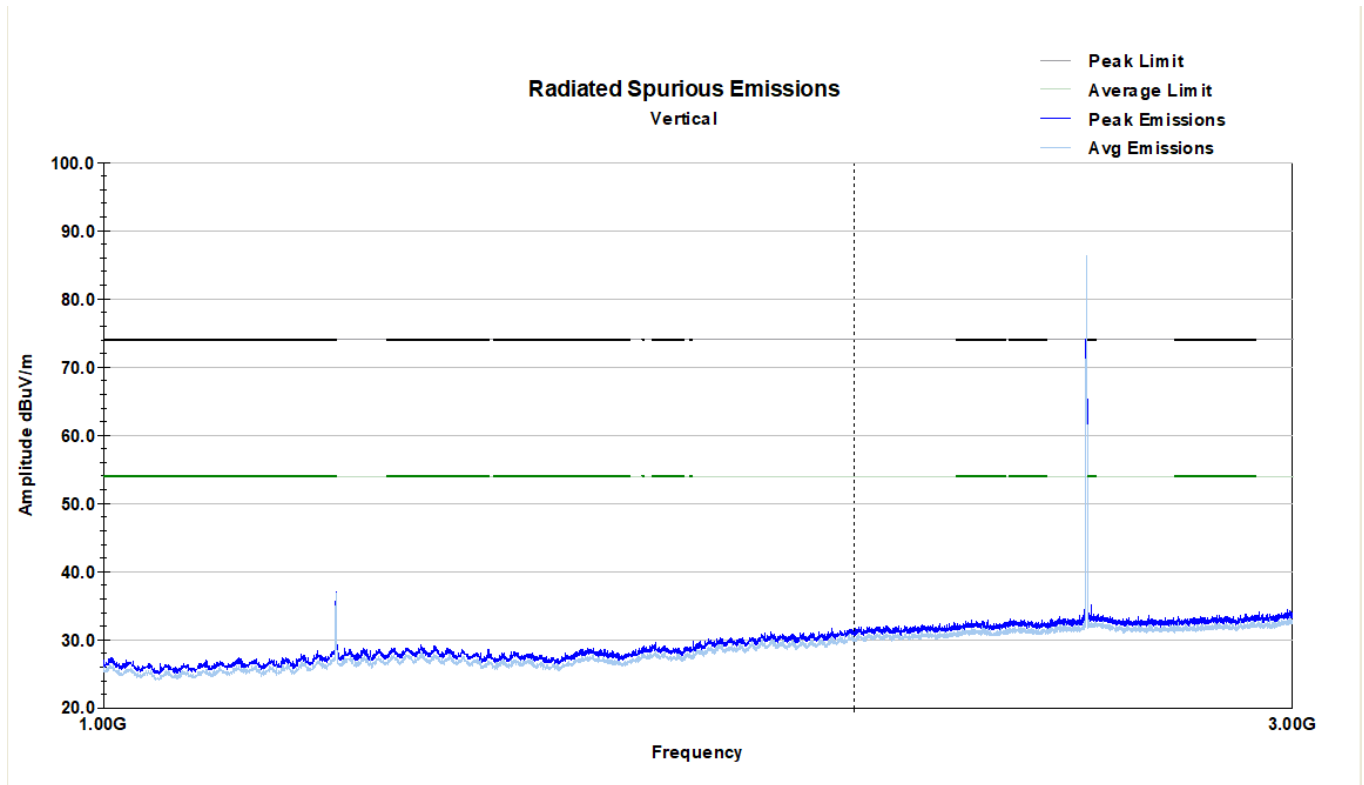
Vertical Radiated Spurious Emissions – 3-18GHz (MCH)



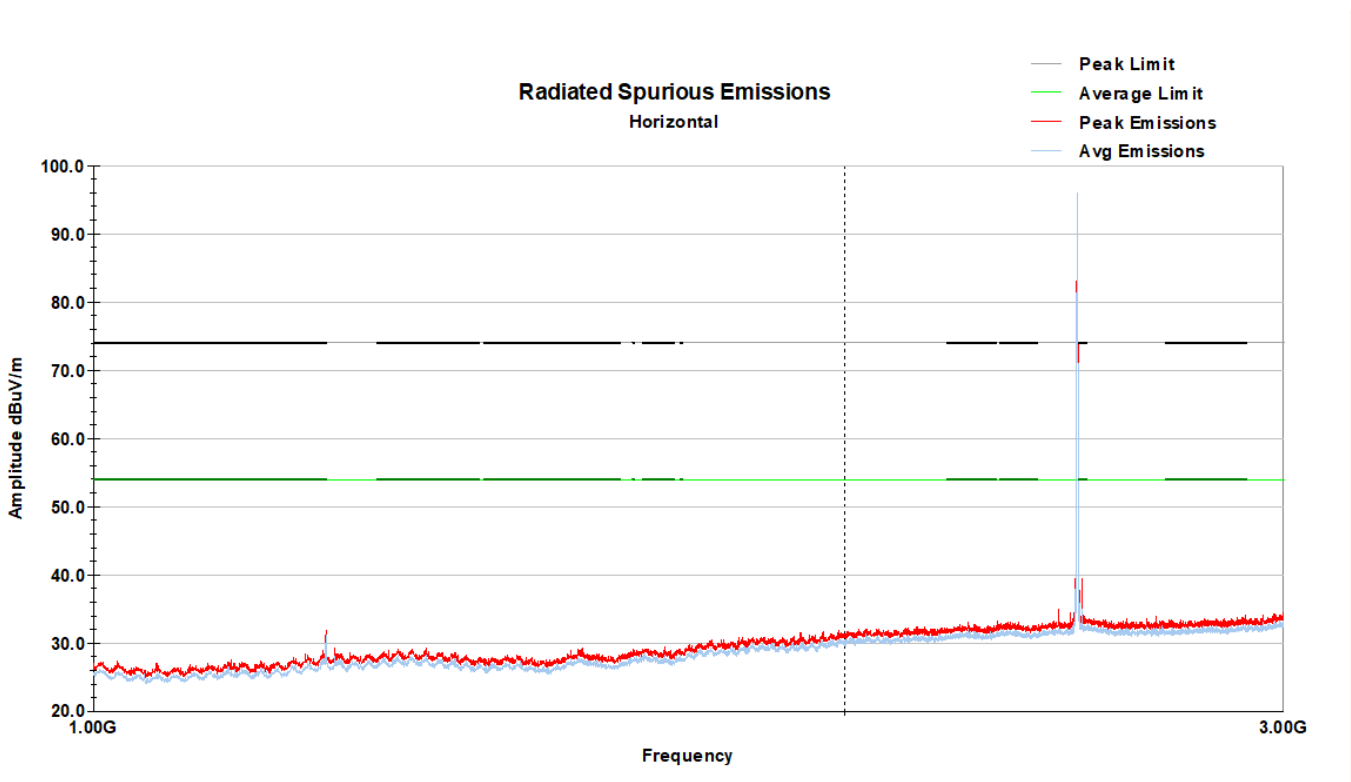
Horizontal Radiated Spurious Emissions – 3-18GHz (MCH)



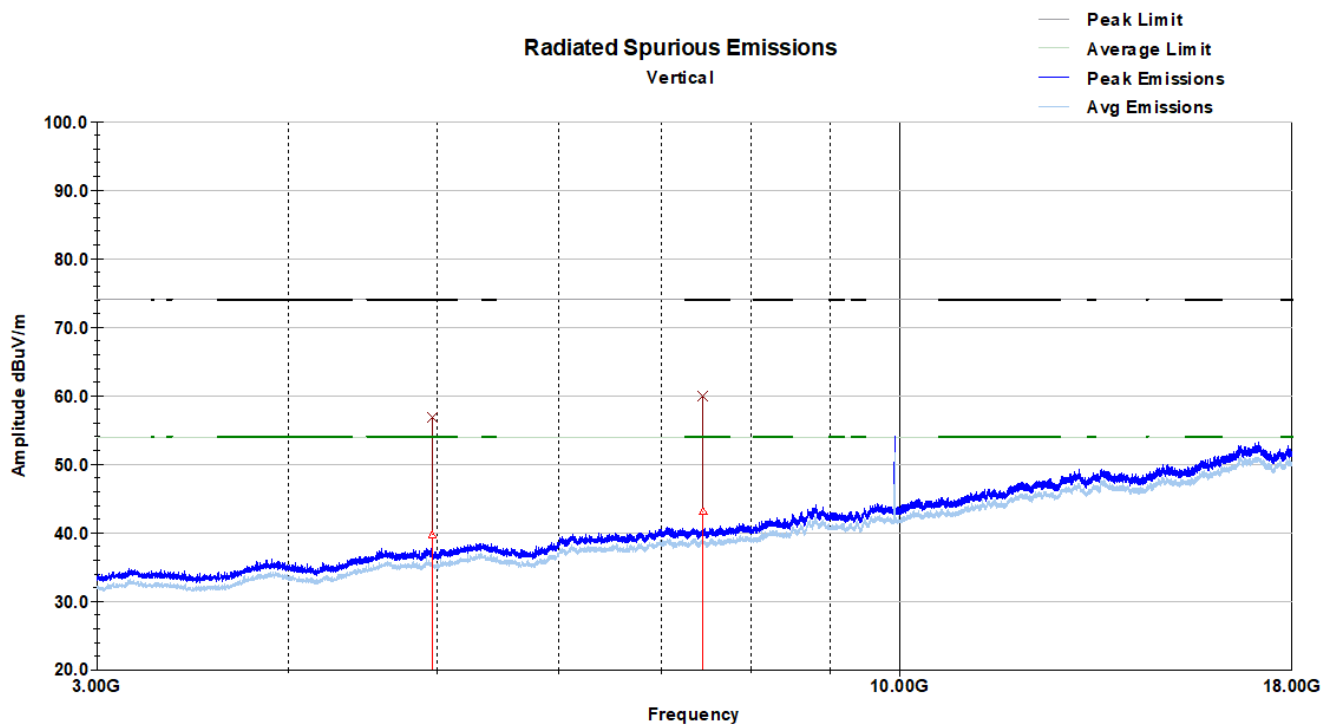
Vertical Radiated Spurious Emissions – 1-3GHz (HCH)



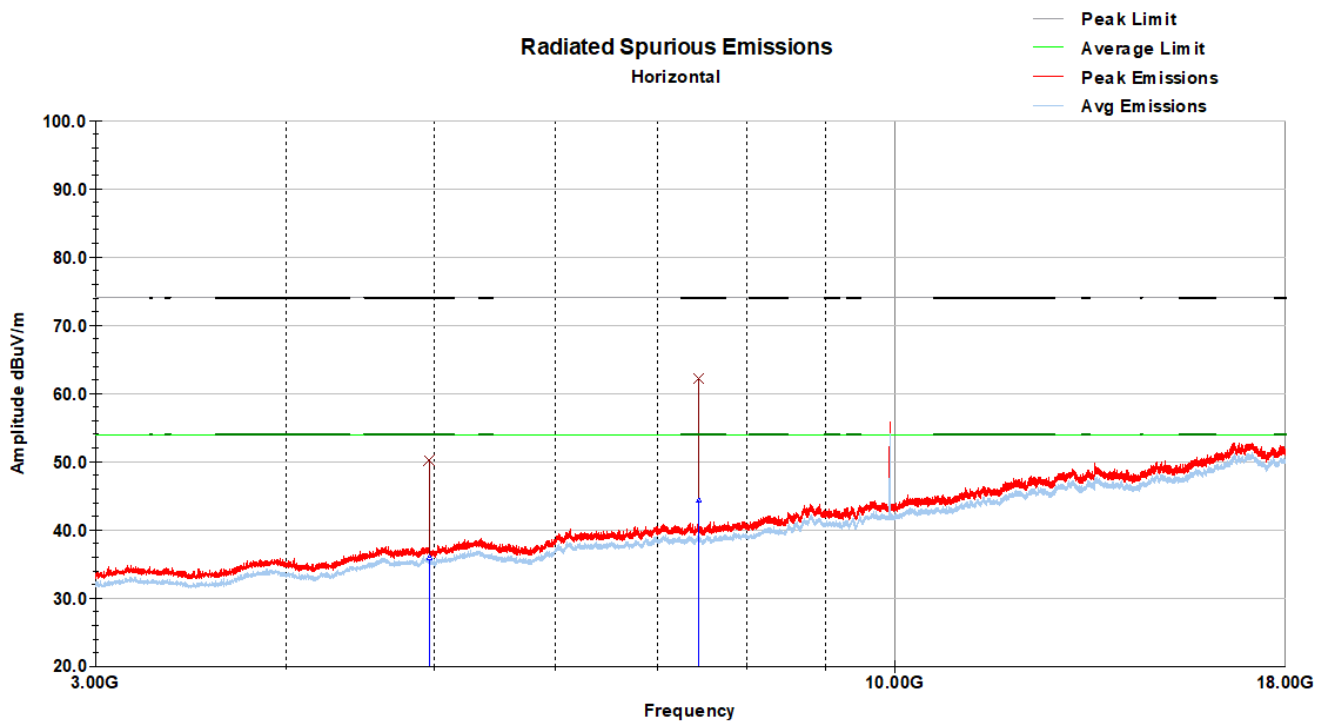
Horizontal Radiated Spurious Emissions – 1-3GHz (HCH)



Vertical Radiated Spurious Emissions – 3-18GHz (HCH)



Horizontal Radiated Spurious Emissions – 3-18GHz (HCH)



7.6 Test Data – Tabular Data

Frequency MHz	Raw Pk/AVG dBμV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	DCCF (dB)	Final Pk/AVG dBμV/m	Limit dBμV/m	Margin dB	Detector
Low Channel (2402MHz)												
4804.00	55.7	V	246.0	201.0	34.6	6.4	35.1	0.0	61.6	74.0	-12.4	Peak
4804.00	36.8	V	246.0	201.0	34.6	6.4	35.1	9.5	52.2	54.0	-1.8	Average
4804.00	46.7	H	10.0	194.0	34.6	6.4	35.1	0.0	52.6	74.0	-21.4	Peak
4804.00	31.0	H	10.0	194.0	34.6	6.4	35.1	9.5	46.4	54.0	-7.6	Average
Mid Channel (2440MHz)												
4879.44	57.4	V	214.0	200.0	34.5	6.4	35.3	0.0	63.0	74.0	-11.0	Peak
4879.44	38.3	V	214.0	200.0	34.5	6.4	35.3	9.5	53.4	54.0	-0.6	Average
7319.44	53.4	V	347.0	179.0	35.7	8.0	35.3	0.0	61.8	74.0	-12.2	Peak
7319.44	35.7	V	347.0	179.0	35.7	8.0	35.3	9.5	53.6	54.0	-0.4	Average
4880.40	48.0	H	26.0	208.0	34.5	6.4	35.3	0.0	53.6	74.0	-20.4	Peak
4880.40	31.1	H	26.0	208.0	34.5	6.4	35.3	9.5	46.2	54.0	-7.8	Average
7319.20	51.6	H	20.0	187.0	35.7	8.0	35.3	0.0	60.0	74.0	-14.0	Peak
7319.20	34.4	H	20.0	187.0	35.7	8.0	35.3	9.5	52.3	54.0	-1.7	Average
High Channel (2480MHz)												
4959.56	51.0	V	240.0	203.0	34.5	6.6	35.2	0.0	56.9	74.0	-17.1	Peak
4959.56	33.9	V	240.0	203.0	34.5	6.6	35.2	9.5	49.3	54.0	-4.7	Average
7439.56	51.4	V	14.0	206.0	35.7	8.2	35.3	0.0	60.0	74.0	-14.0	Peak
7439.56	34.5	V	14.0	206.0	35.7	8.2	35.3	9.5	52.6	54.0	-1.4	Average
4959.08	44.4	H	355.0	247.0	34.5	6.6	35.2	0.0	50.3	74.0	-23.7	Peak
4959.08	30.2	H	355.0	247.0	34.5	6.6	35.2	9.5	45.6	54.0	-8.4	Average
7439.92	53.6	H	354.0	199.0	35.7	8.2	35.3	0.0	62.2	74.0	-11.8	Peak
7439.92	35.6	H	354.0	199.0	35.7	8.2	35.3	9.5	53.7	54.0	-0.3	Average
Final Value = Raw Level + AF + CL - Amp + DCCF												
Margin = Final Value - Limit												

8 Emissions in Restricted Frequency Bands (Band Edge)

8.1 Test Result

Test Description	Test Specification		Test Result
Restricted Band Emissions	15.205 / 15.209	RSS-GEN S8.9 / 8.10	Compliant

8.2 Test Method

Field strength measurements were performed at the restricted band edges of 2390MHz and 2483.5MHz for each modulation. Measurements were made using the conducted methods defined in ANSI C63.10, Section 11.12.2.

8.3 Test Site

EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 20.8 °C

Relative Humidity: 33.8 %

Atmospheric Pressure: 98.0 kPa

8.4 Test Equipment

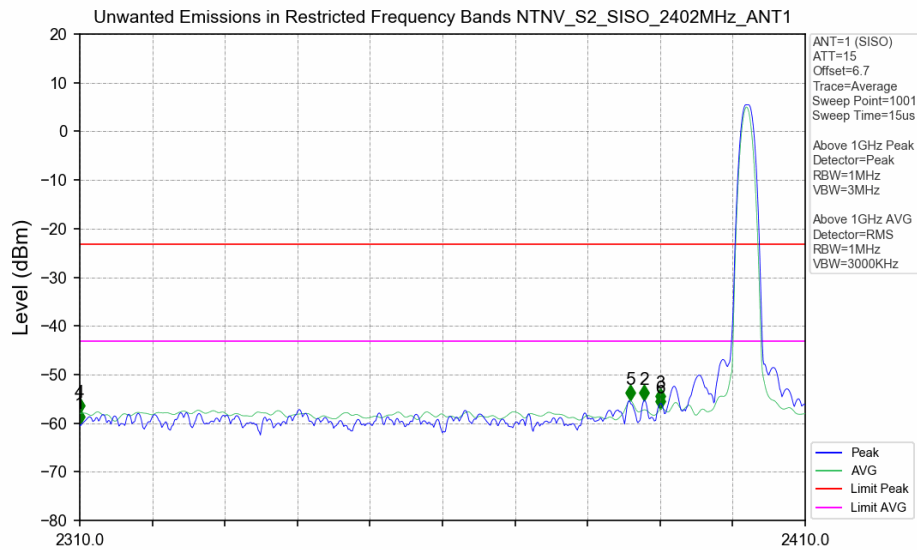
Test End Date: 1/26/2022

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ATTENUATOR, 6DB	BW-S6W2	MINI-CIRCUITS	15023	7-Oct-2021	7-Oct-2022
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20108	16-Mar-2021	16-Mar-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	4-Jan-2022	4-Jan-2024

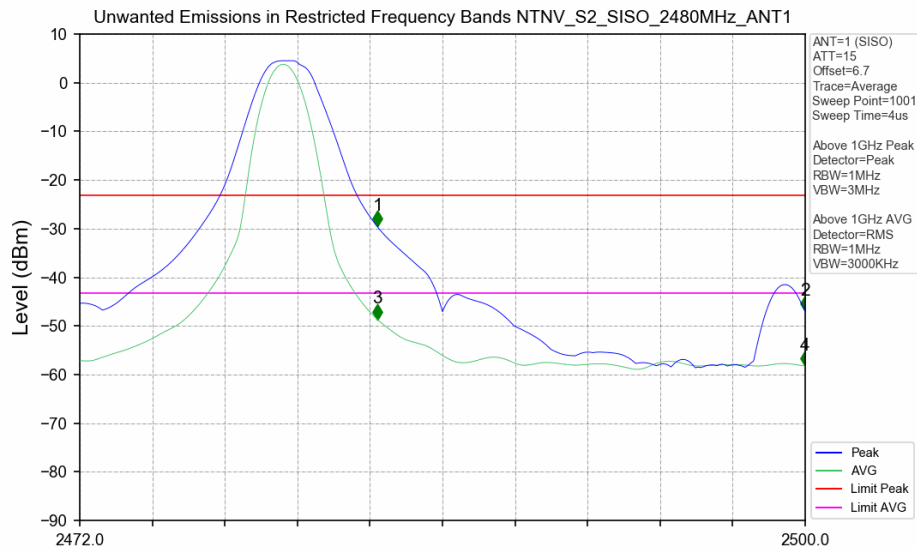
8.5 Test Data – Restricted Band Edges

Low Channel



Marker No	Frequency (MHz)	Level (dBm)	Remark	Marker No	Frequency (MHz)	Level (dBm)	Remark
1	2310.000	-60.302	Peak	4	2310.000	-57.997	AVG
2	2387.800	-55.316	Peak	5	2385.900	-55.366	AVG
3	2390.000	-55.976	Peak	6	2390.000	-57.139	AVG

High Channel



Marker No	Frequency (MHz)	Level (dBm)	Remark	Marker No	Frequency (MHz)	Level (dBm)	Remark
1	2483.500	-29.577	Peak	3	2483.500	-48.652	AVG
2	2500.000	-47.038	Peak	4	2500.000	-58.311	AVG

9 Measurement Uncertainty

The measurement uncertainty figures are be calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence levels of 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Parameter	Expanded Uncertainty for Normal k factor equal to 2	
	Required	Laboratory Actual
Radio Frequency	$\pm 1 \times 10^{-5}$	$\pm 9.8 \times 10^{-8}$
total RF power, conducted	± 1.5 dB	± 1.2 dB
RF power density, conducted	± 3 dB	± 0.7 dB
spurious emissions, conducted	± 3 dB	± 2.1 dB
all emissions, radiated	± 6 dB	± 4.8 dB
temperature	$\pm 1^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
humidity	± 5 %	$\pm 3.5\%$
DC and low frequency voltages	± 3 %	$\pm 0.4\%$

10 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	29 March 2022