



Customer: Davis Instruments  
 Specification: 15.247(d) / 15.209 Radiated Spurious Emissions

|                   |                      |            |                                    |
|-------------------|----------------------|------------|------------------------------------|
| Work Order #:     | 100904               | Date:      | Tue May-07-2019                    |
| Test Type:        | Radiated Scan        | Time:      | 15:14:30                           |
| Tested By:        | Hieu Song Nguyenpham | Sequence:  | 40                                 |
| Voltage:          |                      | File Name: | RSE-SPOT CHECK-BELOW 1GHZ-6100.DAT |
| Software Version: | 5.03.11              |            |                                    |

**Equipment Tested:**

| Function | Manufacturer | Model# | S/N |
|----------|--------------|--------|-----|
| 6100     |              |        |     |

**Support Equipment:**

| Device | Manufacturer | Model# | S/N |
|--------|--------------|--------|-----|
| None   |              |        |     |

**Test Conditions / Notes: THIS IS PRELIMINARY DATA**

Radiated Emission  
 Frequency Range: 9kHz to 1000MHz

Application: nRFgo Studio-Win32 version 1.21.2 for BTLE module  
 Temperature: 22.5°C  
 Relative Humidity: 43 %  
 Atmospheric Pressure: 101.18 kPa  
 High Clock: 40MHz  
 Transmitting operating frequency= 2402, 2440 and 2480MHz for Bluetooth  
 Gain of the antenna for Bluetooth= 1dBi  
 Method: ANSI C 63.10 2013

Note

**Test Equipment:**

| ID | Asset #/Serial # | Description       | Model      | Calibrated Date | Cal Due Date |
|----|------------------|-------------------|------------|-----------------|--------------|
| T1 | ANP07508         | Preamp            | 310N       | 10/15/2018      | 10/15/2020   |
| T2 | ANP06049         | Attenuator        | PE7002-6   | 5/14/2018       | 5/14/2020    |
| T3 | ANP00880         | Cable             | RG214U     | 5/14/2018       | 5/14/2020    |
| T4 | ANP01187         | Cable             | CNT-195    | 8/20/2018       | 8/20/2020    |
| T5 | ANP06691         | Cable             | PE3062-180 | 5/14/2018       | 5/14/2020    |
| T6 | AN00852          | Biconilog Antenna | CBL 6111C  | 5/1/2018        | 5/1/2020     |
|    | AN02660          | Spectrum Analyzer | E4446A     | 10/19/2018      | 10/19/2020   |

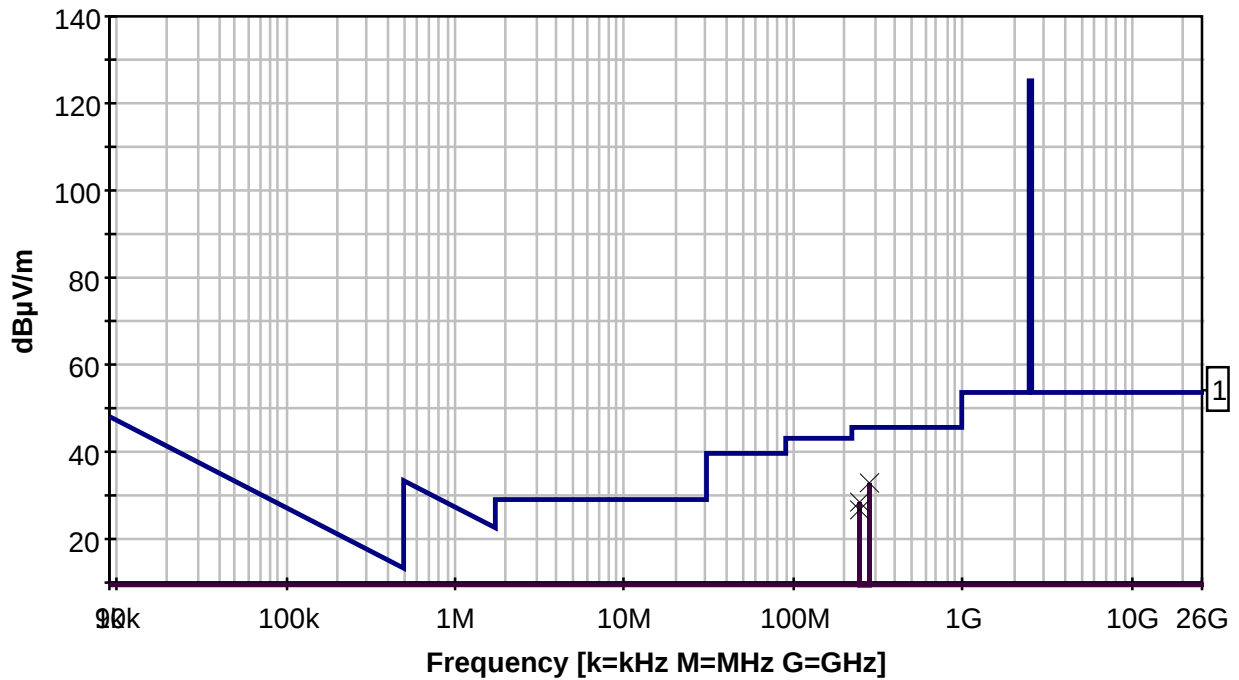
**Measurement Data:**

Readings listed by margin.

Test Distance: 3 Meters

| #              | Freq MHz | Rdng dBμV | T1 T5         | T2 T6         | T3   | T4   | Dist | Corr dBμV/m | Spec dBμV/m |  |  | Polar | Type | Margin |
|----------------|----------|-----------|---------------|---------------|------|------|------|-------------|-------------|--|--|-------|------|--------|
| 1              | 275.013  | 43.8      | -32.0<br>+0.6 | +6.0<br>+13.0 | +1.6 | +0.3 | +0.0 | 33.3        | 46.0        |  |  | Vert  | Peak | -12.7  |
| Low Channel    |          |           |               |               |      |      |      |             |             |  |  |       |      |        |
| 2              | 240.175  | 40.5      | -32.0<br>+0.6 | +6.0<br>+12.0 | +1.5 | +0.3 | +0.0 | 28.9        | 46.0        |  |  | Horiz | Peak | -17.1  |
| Middle Channel |          |           |               |               |      |      |      |             |             |  |  |       |      |        |
| 3              | 240.087  | 38.8      | -32.0<br>+0.6 | +6.0<br>+11.9 | +1.5 | +0.3 | +0.0 | 27.1        | 46.0        |  |  | Horiz | Peak | -18.9  |
| High Channel   |          |           |               |               |      |      |      |             |             |  |  |       |      |        |

Davis Instruments WO#: 100904 Sequence#: 40 Date: 5/7/2019  
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters



— Sweep Data  
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions  
— Readings  
× Peak Readings  
Software Version: 5.03.11