



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:	14:35:48
Tested By:	Hieu Song Nguyenpham	Sequence:	75
Voltage:		File Name:	RSE-SPOT CHECK-ABOVE 1GHZ-6100.DAT
Software Version:	5.03.12		

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: 1000MHz to 25000MHz

Application: nRFgo Studio-Win32 version 1.21.2 for BTLE module
Temperature: 23.5°C
Relative Humidity: 48 %
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	AN03607	Preamp	AMF-7D-00101800-30-10P	6/6/2017	6/6/2019
T2	AN02157	Horn Antenna - ANSI C63.5	3115	1/15/2019	1/15/2021
T3	AN03302	Cable	32026-29094K-29094K-72TC	1/15/2018	1/15/2020
T4	ANP01210	Cable	FSJ1P-50A-4A	12/18/2018	12/18/2020
	AN02660	Spectrum Analyzer	E4446A	10/19/2018	10/19/2020
T5	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	3/16/2018	3/16/2020
T6	AN03013	Cable	32022-2-2909K-36TC	6/25/2018	6/25/2020

Measurement Data:

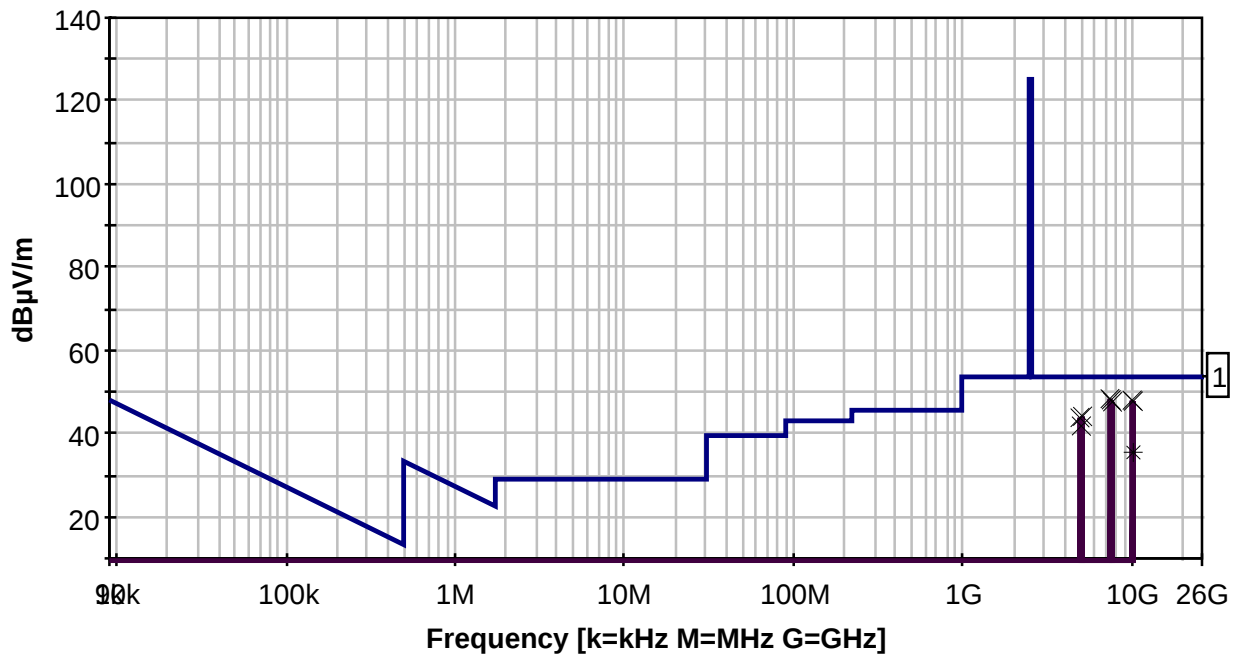
Readings listed in order taken.

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	4803.353	63.4	-59.0 +0.1	+33.3 +0.9	+1.8	+3.8	+0.0	44.3	54.0			Vert	Peak	-9.7
Low Channel														
2	7208.790	63.5	-59.0 +0.1	+36.0 +1.1	+2.3	+4.8	+0.0	48.8	54.0			Vert	Peak	-5.2
Low Channel														
3	9927.921	61.2	-59.2 +0.1	+39.4 +1.3	+2.7	+5.6	+0.0	51.1	54.0			Vert	Peak	-2.9
Low Channel														
4	9927.921	46.0	-59.2 +0.1	+39.4 +1.3	+2.7	+5.6	+0.0	35.9	54.0			Vert	Ave	-18.1
Low Channel														
5	4883.860	61.3	-59.2 +0.1	+33.5 +0.9	+1.9	+3.8	+0.0	42.3	54.0			Vert	Peak	-11.7
Middle Channel														

#	Freq MHz	Rdng dBμV	T1 T5	T2 T6	T3	T4	Dist	Corr dBμV/m	Spec dBμV/m			Polar	Type	Margin
6	7324.340	63.2	-59.4 +0.1	+36.4 +1.1	+2.3	+4.8	+0.0	48.5	54.0			Vert	Peak	-5.5
Middle Channel														
7	9766.880	58.6	-59.2 +0.1	+39.3 +1.4	+2.7	+5.5	+0.0	48.4	54.0			Vert	Peak	-5.6
Middle Channel														
8	4959.972	63.3	-59.1 +0.1	+33.7 +0.9	+1.9	+3.8	+0.0	44.6	54.0			Vert	Peak	-9.4
High Channel														
9	7440.630	61.9	-59.2 +0.1	+36.9 +1.1	+2.4	+4.8	+0.0	48.0	54.0			Vert	Peak	-6.0
High Channel														
10	9920.630	58.3	-59.2 +0.1	+39.4 +1.3	+2.7	+5.6	+0.0	48.2	54.0			Vert	Peak	-5.8
High Channel														

Davis Instruments WO#: 100904 Sequence#: 75 Date: 5/7/2019
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— Sweep Data
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions
— Readings
× Peak Readings
* Average Readings
Software Version: 5.03.12