



Test report No:
NIE: 61482RRF.001

Partial Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz.

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Wi-Fi bgn wireless radio module with embedded full stack
(*) Trademark	Silicon Labs
(*) Model and /or type reference	WGM160P22A
Other identification of the product	FCC ID: QOQWGM160P IC: 5123A-WGM160P
(*) Features	802.11bgn @ 2.4GHz, single spatial stream
Applicant	SILICON LABORATORIES FINLAND OY Alberga Business Park, Bertel Jungin aukio 3, 02600 Espoo, Finland
Test method requested, standard	USA FCC Part 15.247 10-1-18 Edition: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz. -Emission limitations radiated (Transmitter). USA FCC Part 15.209 10-1-18 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). -Emission limitations radiated (Transmitter). CANADA RSS-Gen Issue 5 (April 2018). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Approved by (name / position & signature)	Jose Carlos Luque RF Lab. Supervisor
Date of issue	2019-10-30
Report template No	FDT08_22 (*) "Data provided by the client"

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Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Wi-Fi bgn wireless radio module with embedded full stack.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
61482/002	Wi-Fi bgn wireless radio module with embedded full stack	WGM160P22A	---	2019/05/31

Sample S/01 has undergone the following test(s): All RADIATED tests indicated in Appendix A.

Test sample description

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
	Module has UART host interface (@115200 with no flow control), which is routed to USB-UART converter of certification board.		Yes, to launch the test modes - Can be detached during testing when module is supplied by lab power supply	☐	☐		
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☒	DC: Nominal 3.3V, min 3.0V, max 3.6V					
Rated Power	~0.7W						
Clock frequencies	38.4MHz (RF XTAL), 72MHz (internal processor), 32.768KHz (low freq XTAL for sleep modes) — None of the clocks is exposed to a module's pin						
Other parameters.....							
Software version	4.0						
Hardware version.....	1.12						
Dimensions in cm (W x H x D)....	23.8mm x 14.2mm x 2.3mm						
Mounting position.....	☒	Other: This is an embedded module, meant to be surface-mounted in the PCB of an end-product by OEMs, etc.					

Modules/parts	Module/parts of test item	Type	Manufacturer
Accessories (not part of the test item)	Description	Type	Manufacturer
	50-Ohm Termination		
	WSTK evaluation mainboard providing USB-UART conversion. Could be used as flash programmer if needed.		
Documents as provided by the applicant.....	Description	File name	Issue date
	Descriptions of test items and accessories and tools, plus instructions for testing.		

⁽³⁾ Only for Medical Equipment

Identification of the client

SILICON LABORATORIES FINLAND OY

Alberga Business Park, Bertel Jungin aukio 3, 02600 Espoo, Finland.

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-06-03
Date (finish)	2019-06-04

Document history

Report number	Date	Description
61482RRF.001	2019-10-30	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

Remarks and comments

The tests have been performed by the technical personnel: Ignacio Cabra, José Manuel Jiménez González, Miguel Ángel Torres, Verónica García Capilla.

Used instrumentation:

Radiated Measurements:

	Last Calibration	Due Calibration
1. Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2. EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7	2018/10	2020/10
3. RF Pre-amplifier 40 dB, 10 MHz - 6 GHz BONN ELEKTRONIK BLNA 0160-01N	2019/02	2020/08
4. Biconical/Log Antenna 30MHz - 6GHz ETS LINDGREN 3142E	2017/09	2020/09
5. Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2018/02	2020/02
6. RF Pre-amplifier G>30dB, 1-18GHz BONN ELEKTRONIK BLMA 0118-3A	2019/04	2020/04
7. RF Pre-amplifier, G>48dB, 18-40GHz NARDA JS44-18004000-33-8P	2018/02	2020/02
8. Broadband Horn antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2018/01	2021/01
9. Broadband Horn antenna 18 - 40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170	2018/07	2021/07

Testing verdicts

Not applicable:	N/A
Pass:	P
Fail:	F
Not measured:	N/M

Summary

Wi-Fi 2.4 GHz (802.11b/g/n20).

FCC PART 15 PARAGRAPH / RSS-247			
Requirement – Test case		Verdict	Remark
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (a)	6 dB Bandwidth	N/M	(1)
Section 15.247 Subclause (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain	N/M	(1)
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)	N/A	
Section 15.247 Subclause (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	N/M	(1)
Section 15.247 Subclause (e) / RSS-247 5.2. (b)	Power spectral density	N/M	(1)
Section 15.247 Subclause (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	
<u>Supplementary information and remarks:</u>			
(1) Test not requested.			

Appendix A: Test results.

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TEST CONDITIONS

POWER SUPPLY (V):

V nominal:	3.3 Vdc
Type of power supply:	DC voltage.
Type of Antenna:	On-board dielectric chip (RF1 pad).
Declared Antenna Gain:	+1.86 dBi

TEST FREQUENCIES:

Low Channel:	2412 MHz
Middle Channel:	2437 MHz
High Channel:	2462 MHz

The maximum power was selected in the EUT to perform the spurious levels.

RADIATED MEASUREMENTS

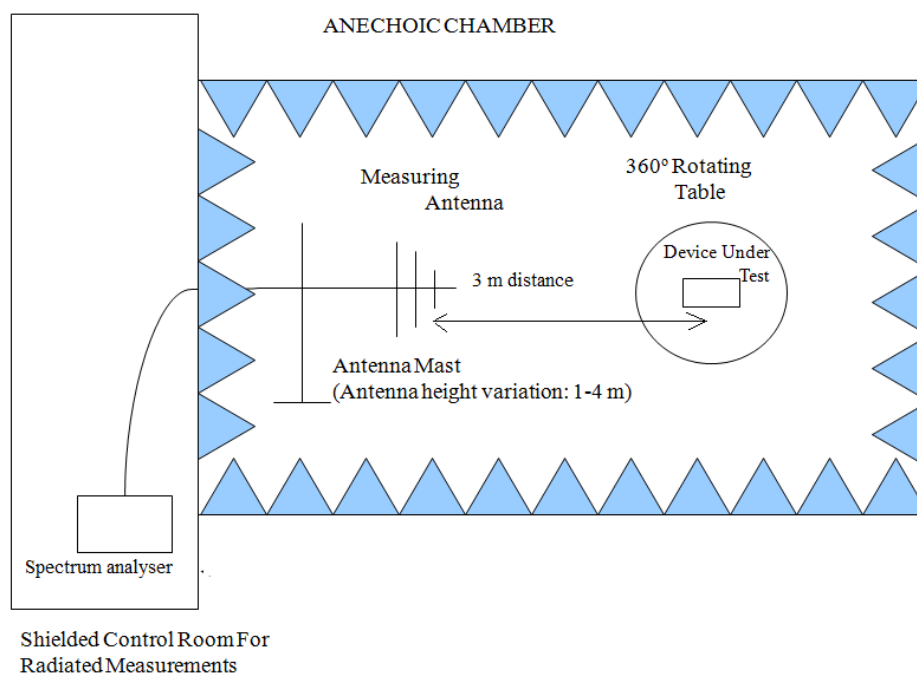
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz) is situated at a distance of 3 m and at a distance of 1m for the frequency range 1 GHz-26 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

For radiated emissions in the range 1 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

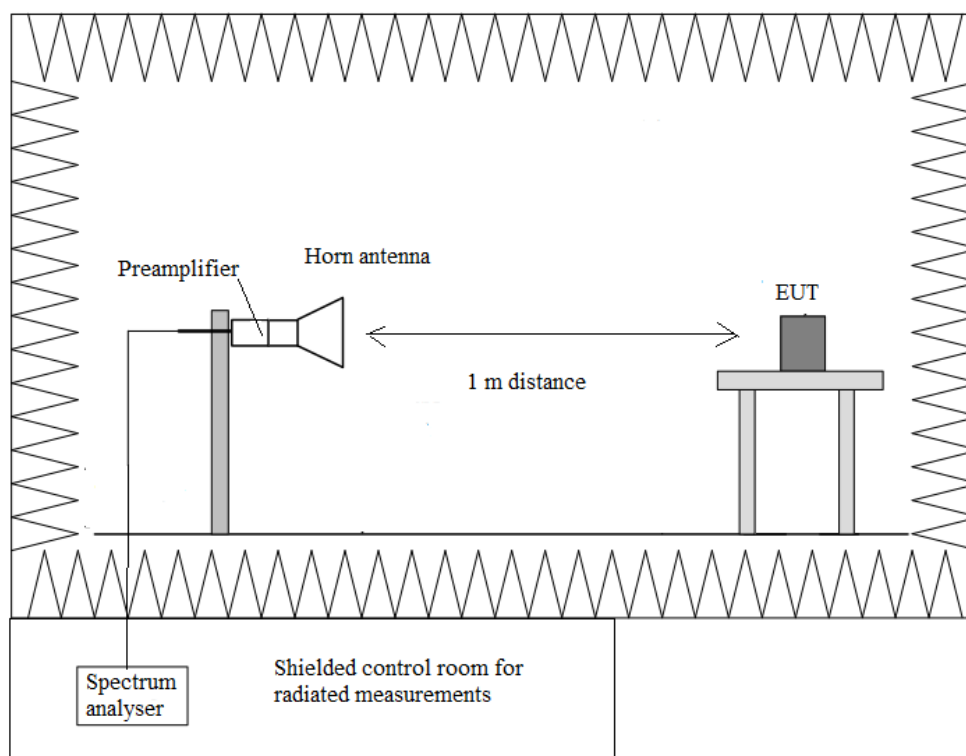
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup $f > 1$ GHz:



FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations radiated (Transmitter)

SPECIFICATION:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 10000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-26 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The field strength at the restricted bands and band edges was evaluated for each mode on the lowest and highest channels at the rated power for the channel under test. Where the power at the edge channels was lower than the power at the center channels additional measurements were made at the adjacent channels.

• **Mode 802.11 b**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
49.998	Quasi peak	23.8	V	<± 3.88
180.011	Quasi peak	28.2	V	<± 3.88
300.032	Quasi peak	29.4	H	<± 3.88
420.053	Quasi peak	27.7	H	<± 3.88
525.007	Quasi peak	31.1	V	<± 3.88

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dBμV/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
5.2127	Peak	51.62	H	<± 3.70

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
5.22203	Peak	47.98	H	<± 3.70
9.74777	Peak	46.03	V	<± 3.70

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
5.21643	Peak	47.02	H	<± 3.70

- RESTRICTED BAND (2.31 - 2.39 GHz). Spurious frequencies closest to the limit:

Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 1	2.384968	Peak	53.19	H	< $\pm$ 3.70
CH 2	2.389748	Peak	53.25	H	< $\pm$ 3.70
CH 3	2.3845987	Peak	52.50	H	< $\pm$ 3.70
CH 4	2.3392653	Peak	52.09	H	< $\pm$ 3.70
CH 5	2.3858947	Peak	51.98	H	< $\pm$ 3.70
CH 6	2.3669960	Peak	52.19	H	< $\pm$ 3.70

- RESTRICTED BAND (2.4835 - 2.5 GHz). Spurious frequencies closest to the limit:

Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 6	2.49462128	Peak	52.77	H	< $\pm$ 3.70
CH 7	2.48797563	Peak	52.63	V	< $\pm$ 3.70
CH 8	2.48449303	Peak	52.76	V	< $\pm$ 3.70
CH 9	2.49504258	Peak	52.99	H	< $\pm$ 3.70
CH 10	2.48531033	Peak	52.76	V	< $\pm$ 3.70
CH 11	2.48421748	Peak	52.70	H	< $\pm$ 3.70

Verdict: PASS

OFDM modes:

For spurious emissions in the range 30 MHz - 26 GHz (except field strength at the band edges that was performed for all modes) a preliminary scan was performed to determine the worst case mode. Herein the results for the worst case mode: 802.11g.

Spurious emissions in the Restricted Band 1 and Restricted Band 2 are measured for all modes.

- **Mode 802.11 g (OFDM worst case for spurious emissions)**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
49.998	Quasi peak	23.8	V	<± 3.88
180.011	Quasi peak	28.2	V	<± 3.88
300.032	Quasi peak	29.4	H	<± 3.88
420.053	Quasi peak	27.7	H	<± 3.88
525.007	Quasi peak	31.1	V	<± 3.88

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-25 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dBμV/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
5.2169	Peak	48.94	H	<± 3.70

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dBμV/m)	Polarization	Measurement Uncertainty (dB)
5.21643	Peak	49.57	V	<± 3.70

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
5.22157	Peak	46.68	H	< $\pm$ 3.70

- RESTRICTED BAND (2.31 - 2.39 GHz). Spurious frequencies closest to the limit:

Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 1	2.3375720	Peak	52.24	H	< $\pm$ 3.70
CH 2	2.3237240	Peak	52.28	H	< $\pm$ 3.70
CH 3	2.3507427	Peak	52.19	V	< $\pm$ 3.70
CH 4	2.3541400	Peak	52.39	V	< $\pm$ 3.70
CH 5	2.3354387	Peak	52.48	V	< $\pm$ 3.70
CH 6	2.3549053	Peak	52.35	H	< $\pm$ 3.70

- RESTRICTED BAND (2.4835 - 2.5 GHz). Spurious frequencies closest to the limit:

Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 6	2.49269628	Peak	53.32	V	< $\pm$ 3.70
CH 7	2.49328808	Peak	52.66	H	< $\pm$ 3.70
CH 8	2.48445508	Peak	54.97	H	< $\pm$ 3.70
		Average	41.43		
CH 9	2.49678498	Peak	54.02	V	< $\pm$ 3.70
		Average	41.44		
CH 10	2.49712763	Peak	52.77	H	< $\pm$ 3.70
CH 11	2.49840638	Peak	52.62	H	< $\pm$ 3.70

Verdict: PASS

• **Mode 802.11 n20**

The results in the next tables show the maximum measured levels in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dB μ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- RESTRICTED BAND (2.31 - 2.39 GHz). Spurious frequencies closest to the limit:

Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 1	2.376140	Peak	52.69	V	< $\pm$ 3.70
CH 2	2.386212	Peak	52.09	V	< $\pm$ 3.70
CH 3	2.379932	Peak	51.92	H	< $\pm$ 3.70
CH 4	2.3820573	Peak	53.12	V	< $\pm$ 3.70
CH 5	2.358644	Peak	52.56	V	< $\pm$ 3.70
CH 6	2.3563187	Peak	52.28	V	< $\pm$ 3.70

- RESTRICTED BAND (2.4835 - 2.5 GHz). Spurious frequencies closest to the limit:

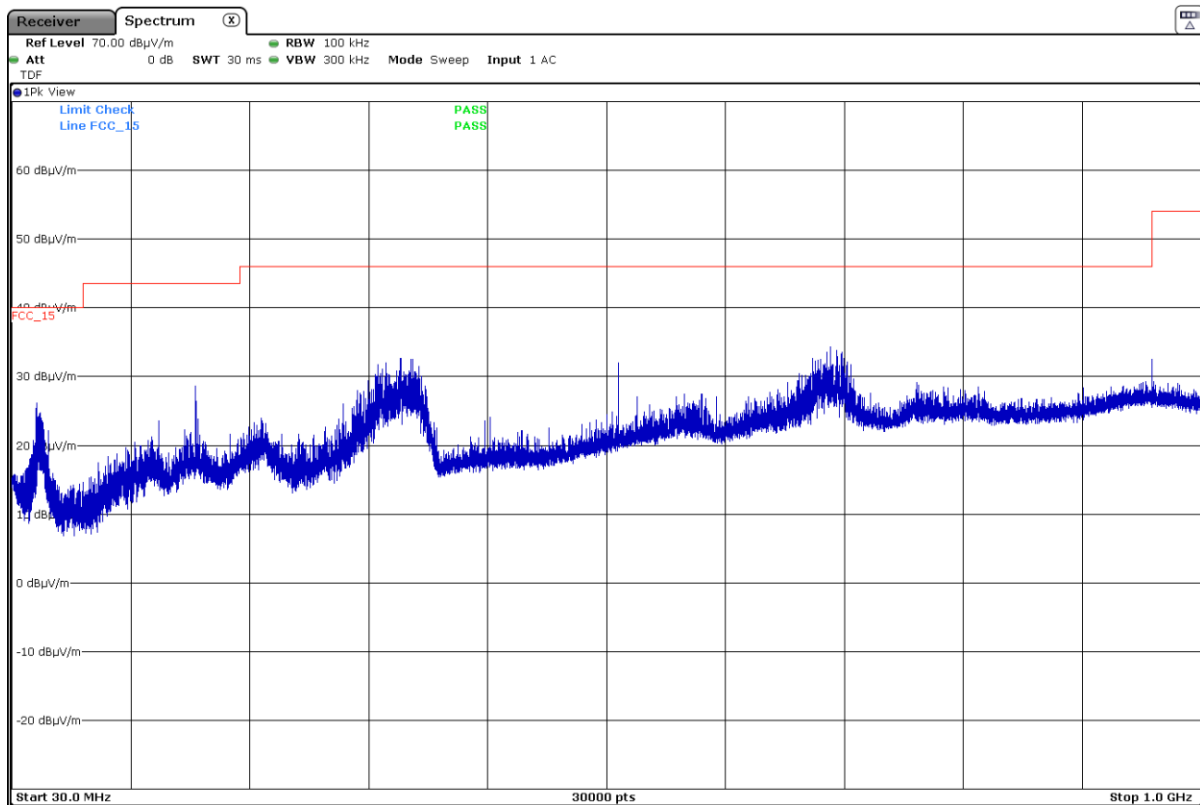
Channel	Spurious frequency (GHz)	Detector	Emission Level (dB μ V/m)	Polarization	Measurement Uncertainty (dB)
CH 6	2.49552108	Peak	53.05	H	< $\pm$ 3.70
CH 7	2.48584383	Peak	52.85	V	< $\pm$ 3.70
CH 8	2.48392818	Peak	54.67	H	< $\pm$ 3.70
		Average	41.40		
CH 9	2.48865213	Peak	52.79	H	< $\pm$ 3.70
CH 10	2.48604293	Peak	53.17	H	< $\pm$ 3.70
CH 11	2.48840793	Peak	53.08	V	< $\pm$ 3.70

Verdict: PASS

- **Mode 802.11 b.**

FREQUENCY RANGE 30 MHz - 1 GHz:

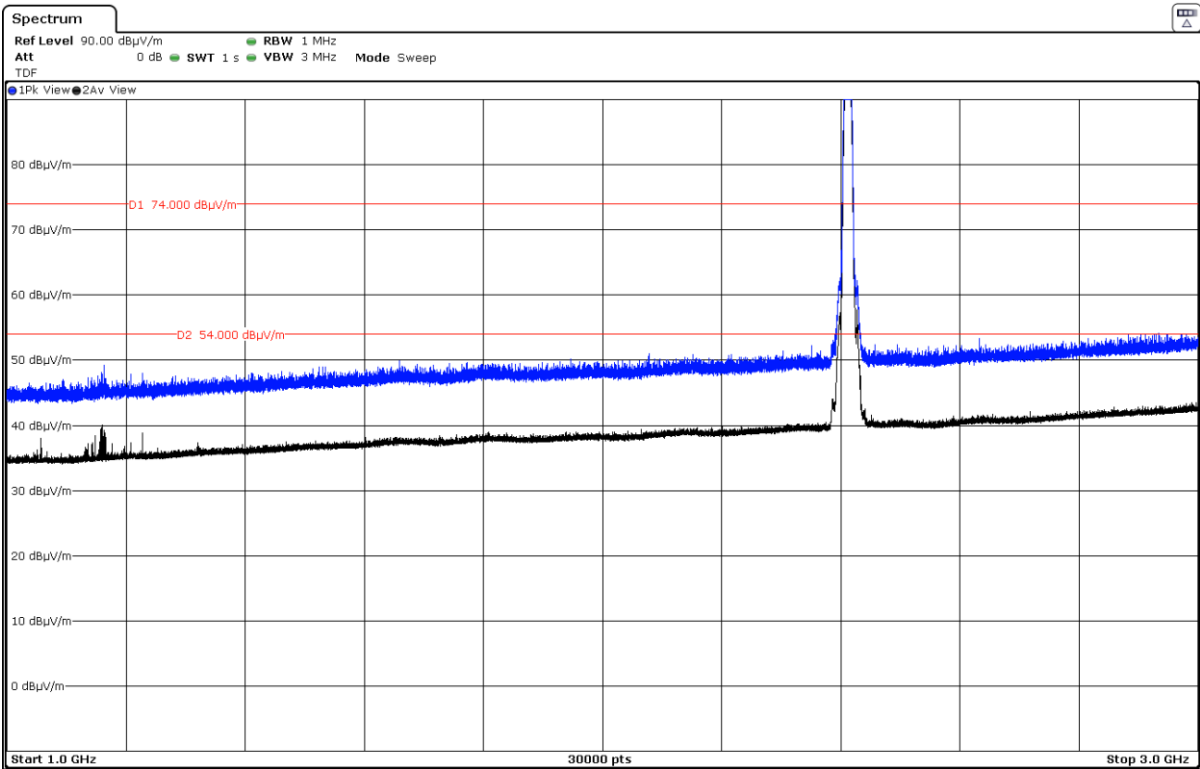
The spurious signals detected do not depend on the operating channel.



Note: This plot is valid for all three channels.

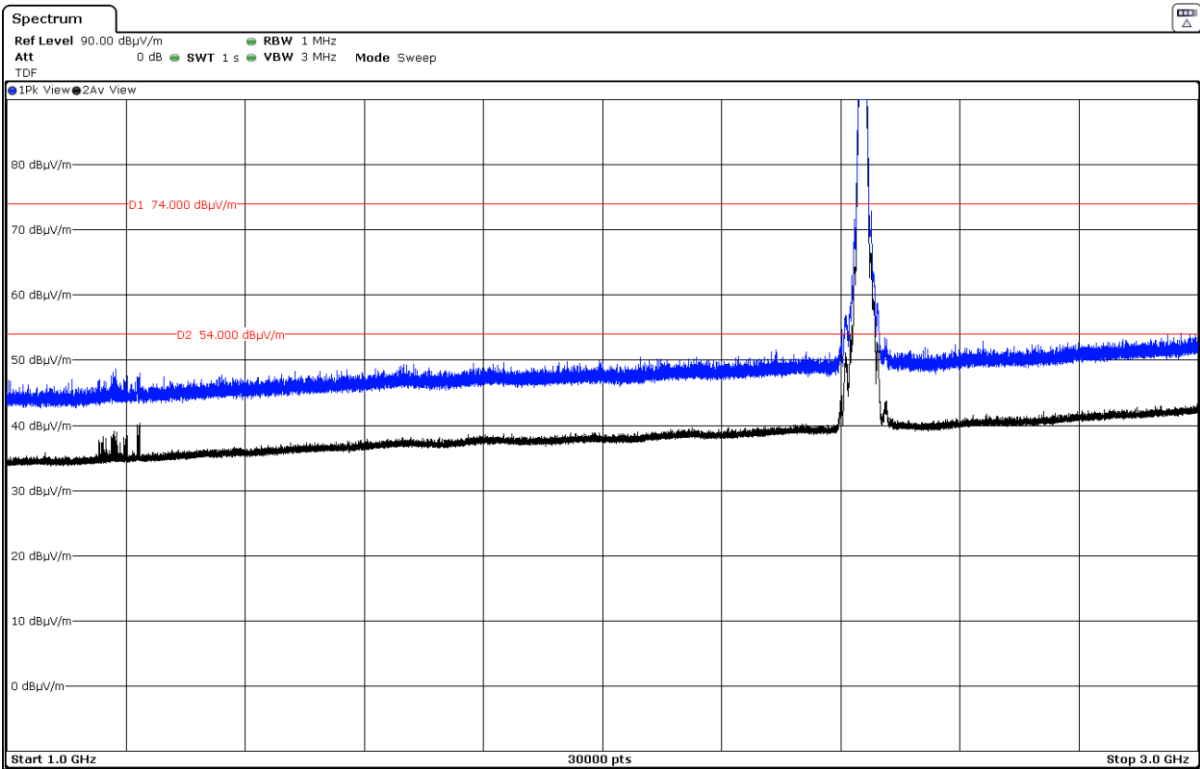
FREQUENCY RANGE 1 - 3 GHz:

- Low Channel:



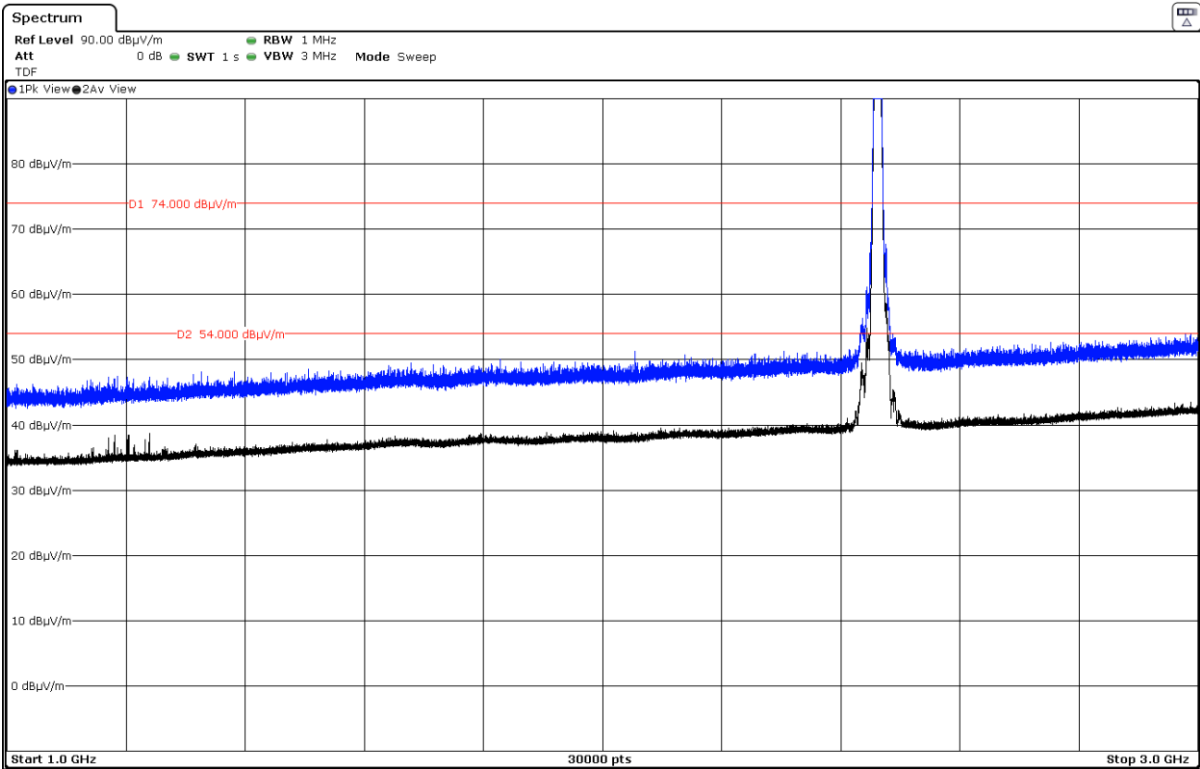
The peak above the limit is the carrier frequency.

- Middle Channel:



The peak above the limit is the carrier frequency.

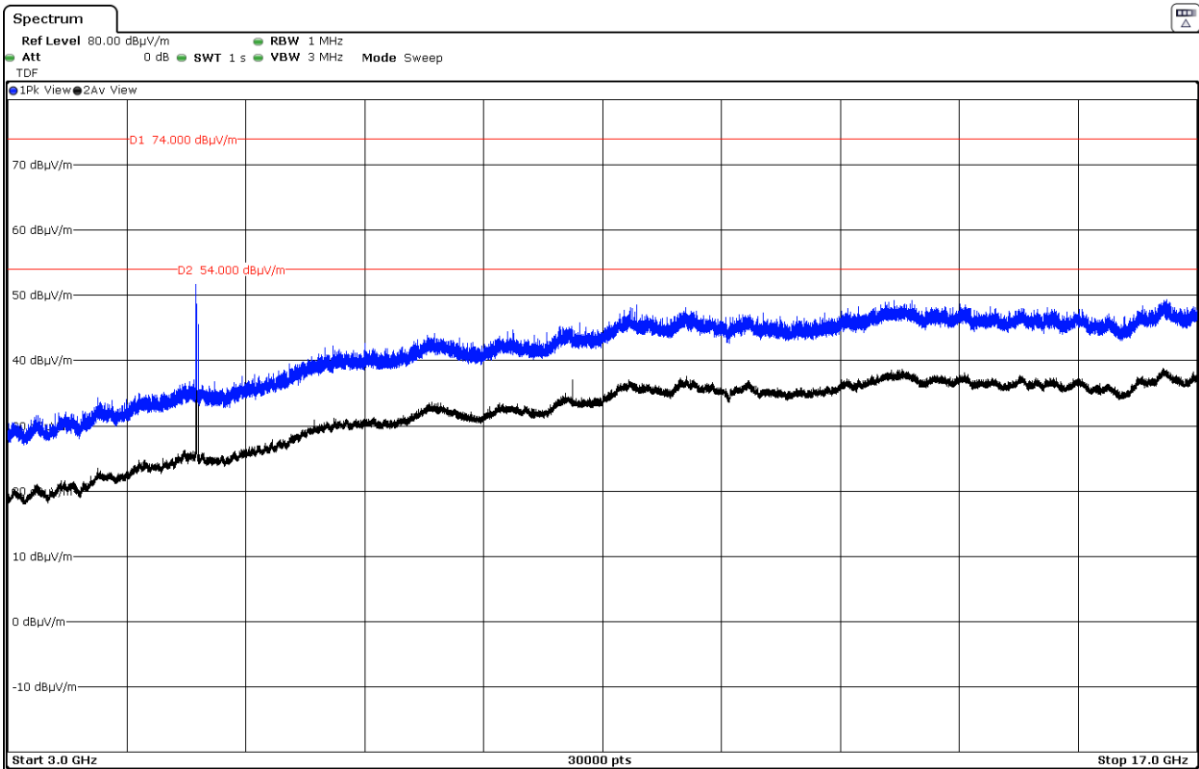
- High Channel:



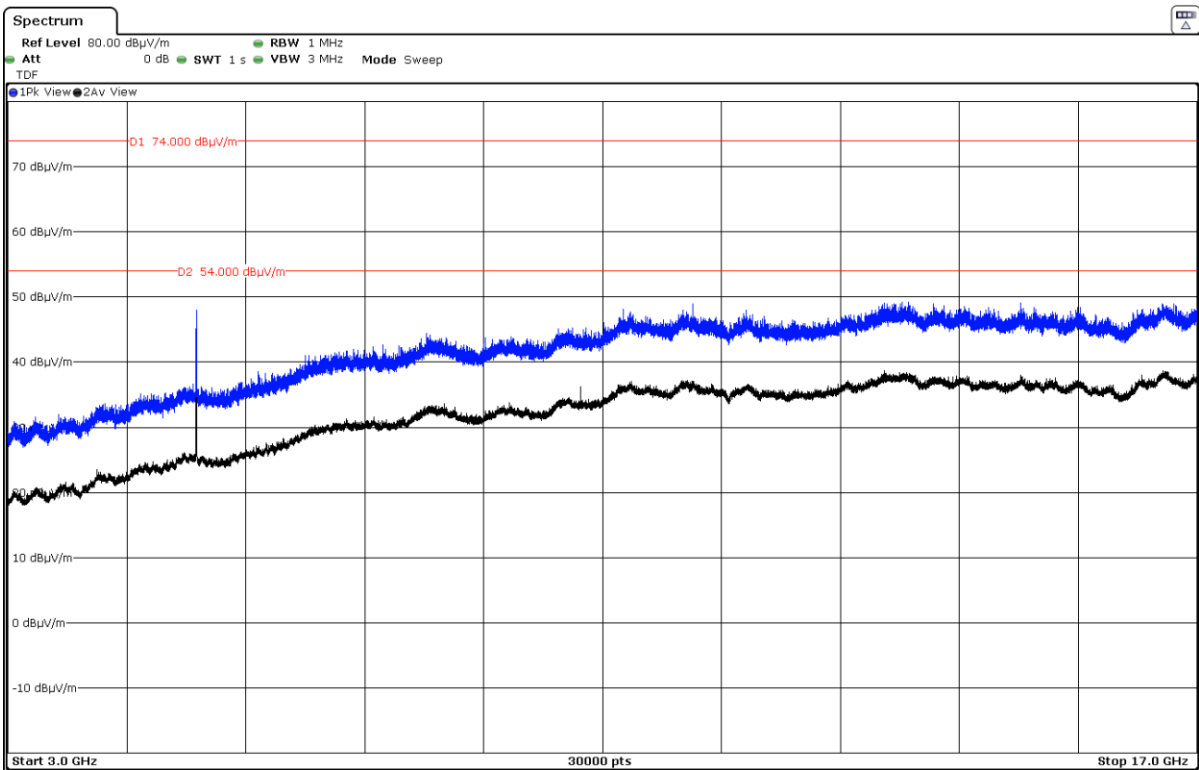
The peak above the limit is the carrier frequency.

FREQUENCY RANGE 3 - 17 GHz:

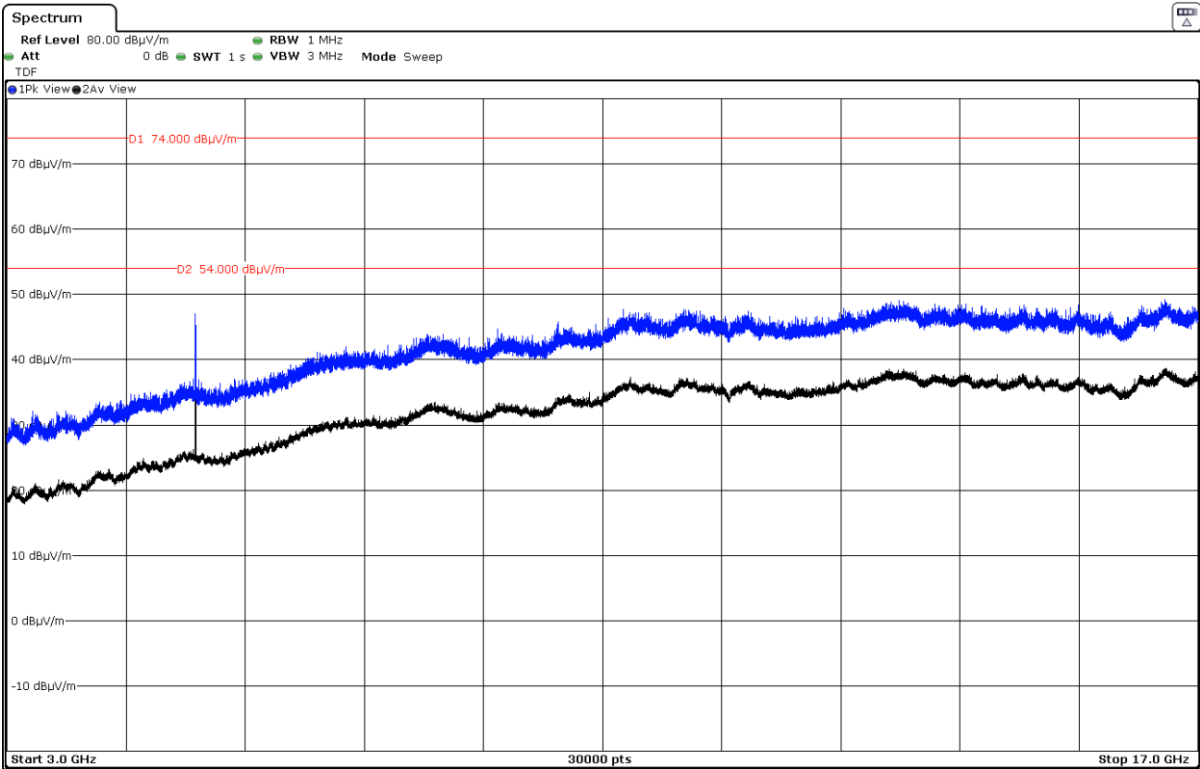
- Low Channel:



- Middle Channel:

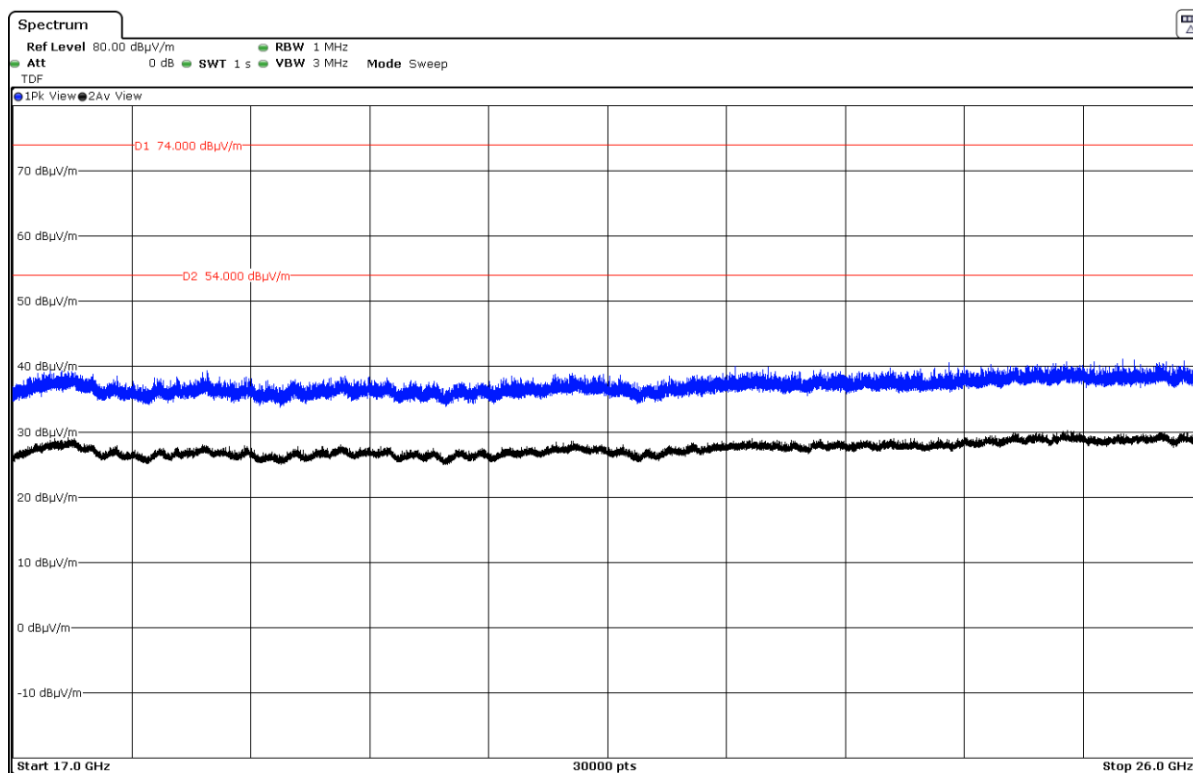


- High Channel:



FREQUENCY RANGE 17 - 26 GHz:

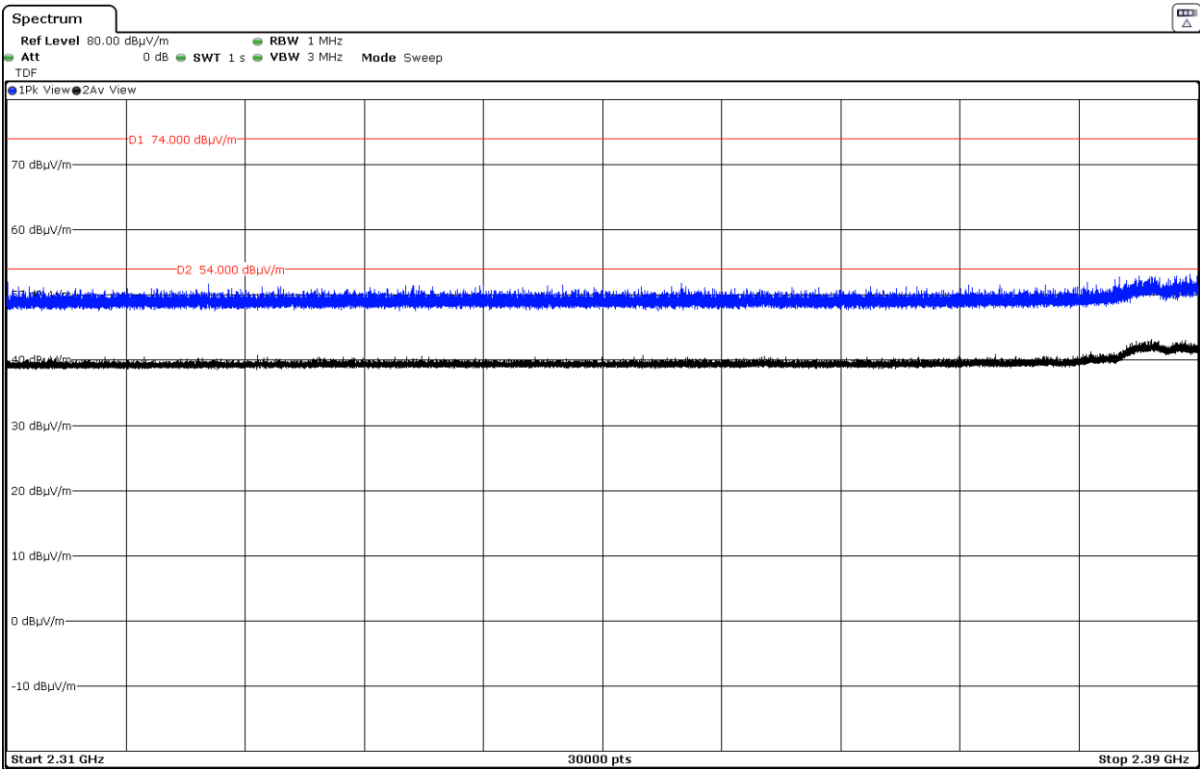
The spurious signals detected do not depend on the operating channel.



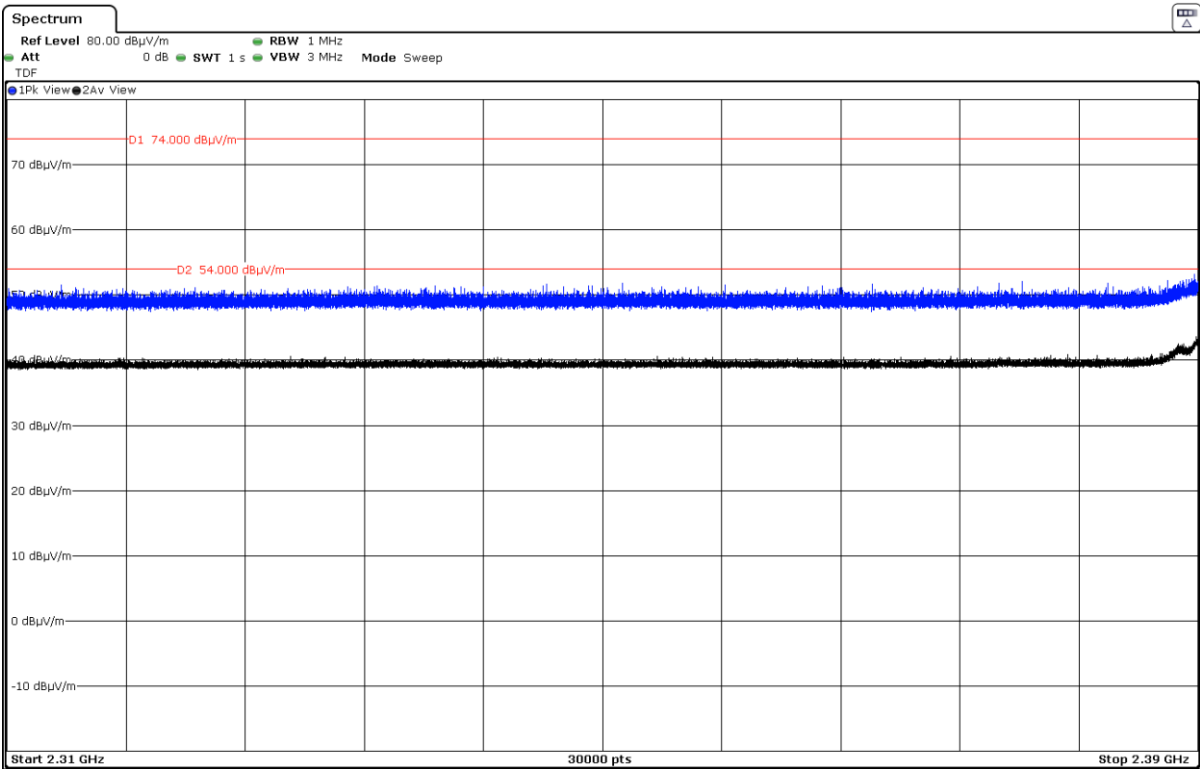
Note: This plot is valid for all three channels.

FREQUENCY RANGE 2.31-2.39 GHz:

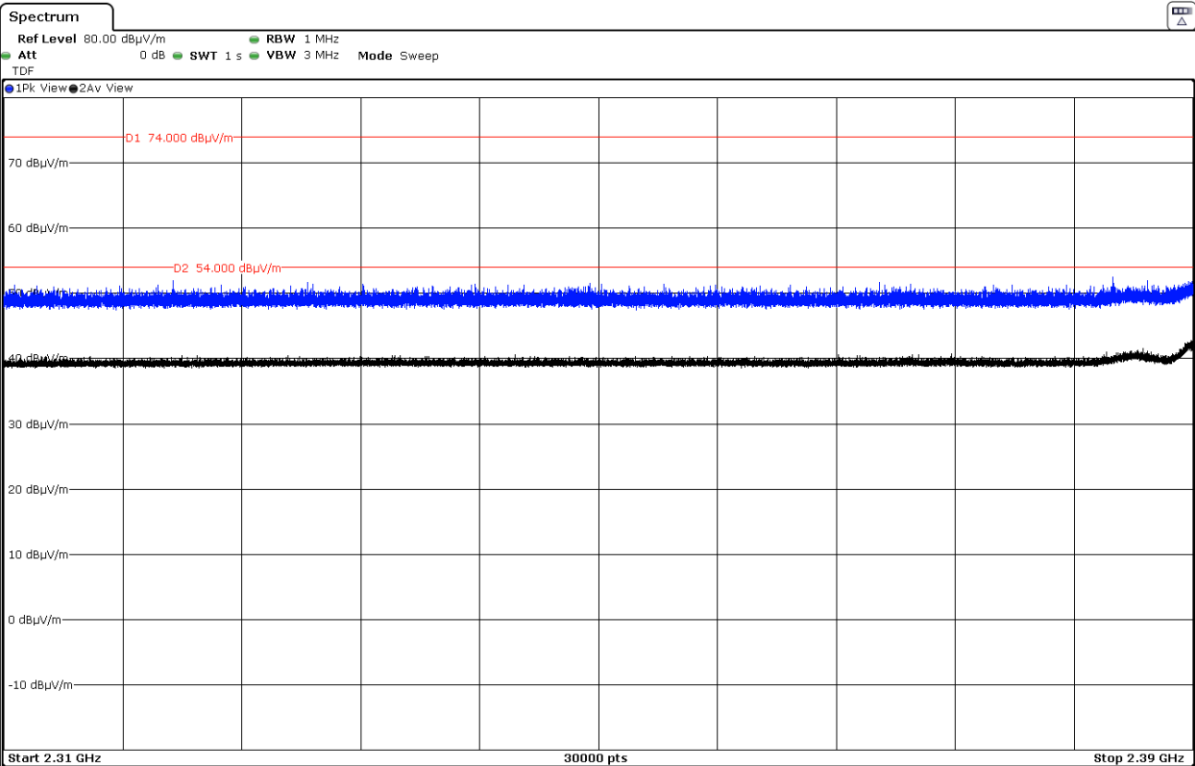
- Low Channel. CH 1:



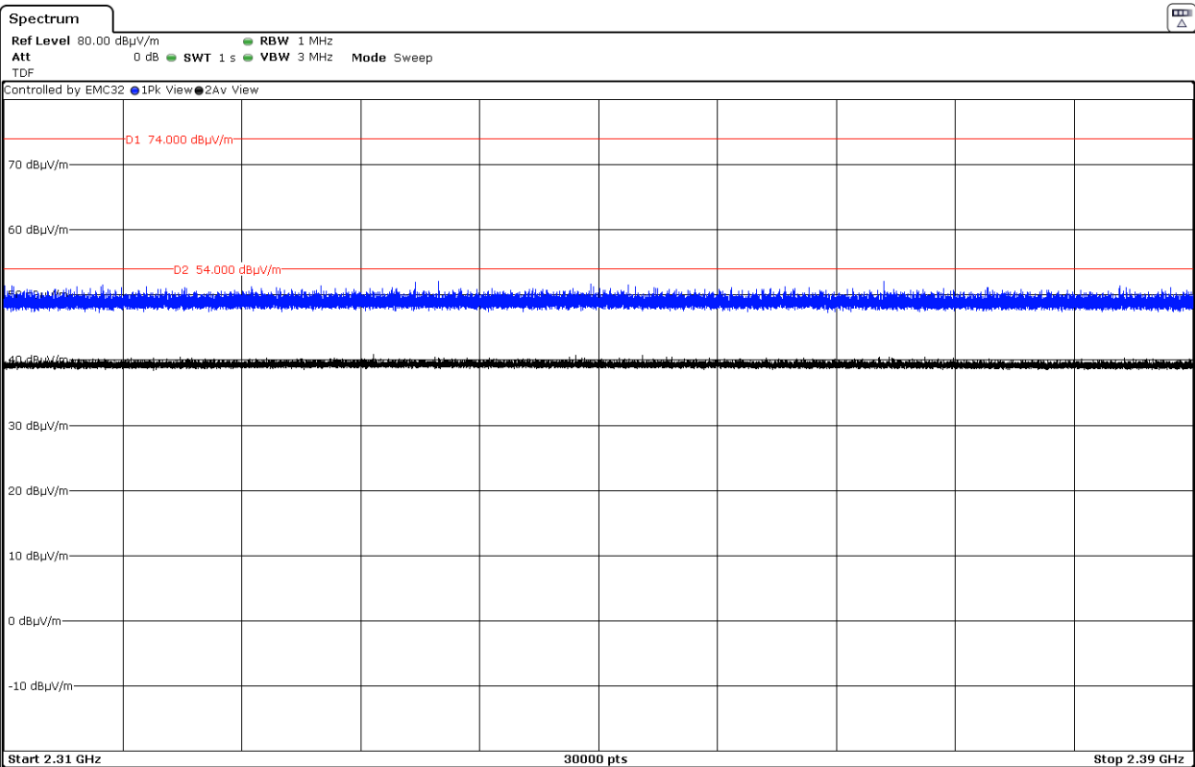
- CH 2:



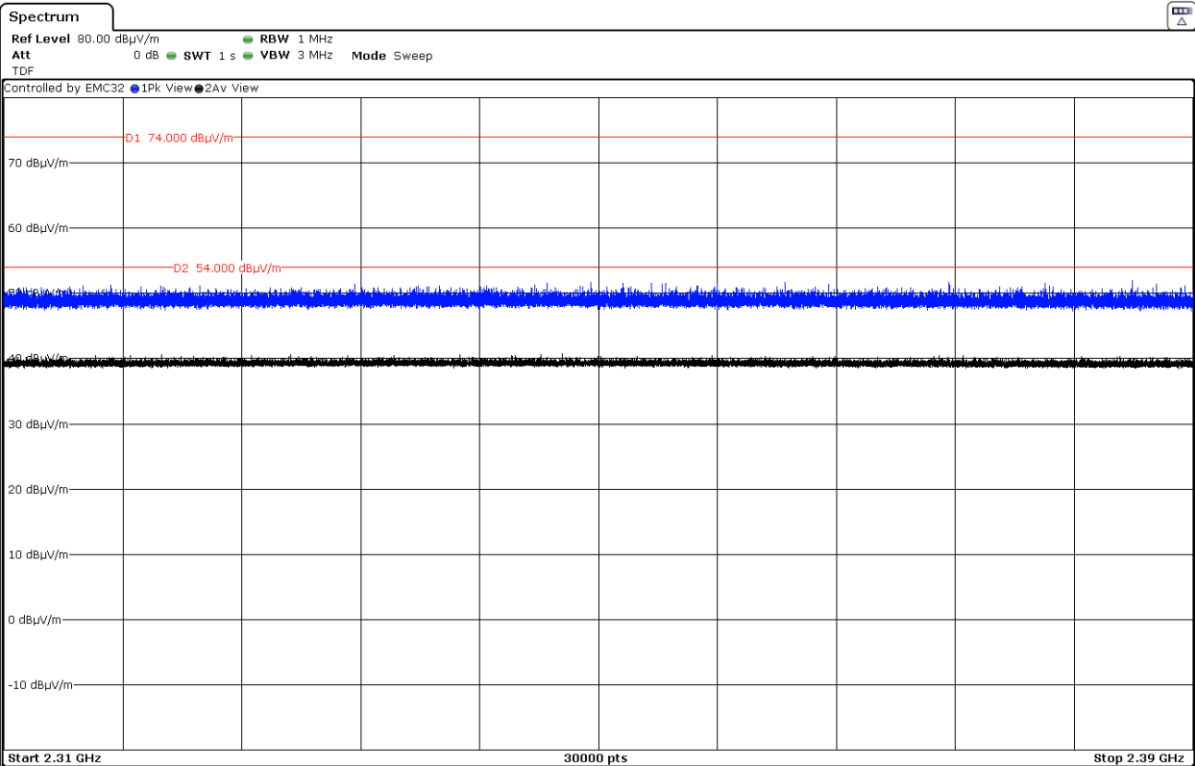
- CH 3:



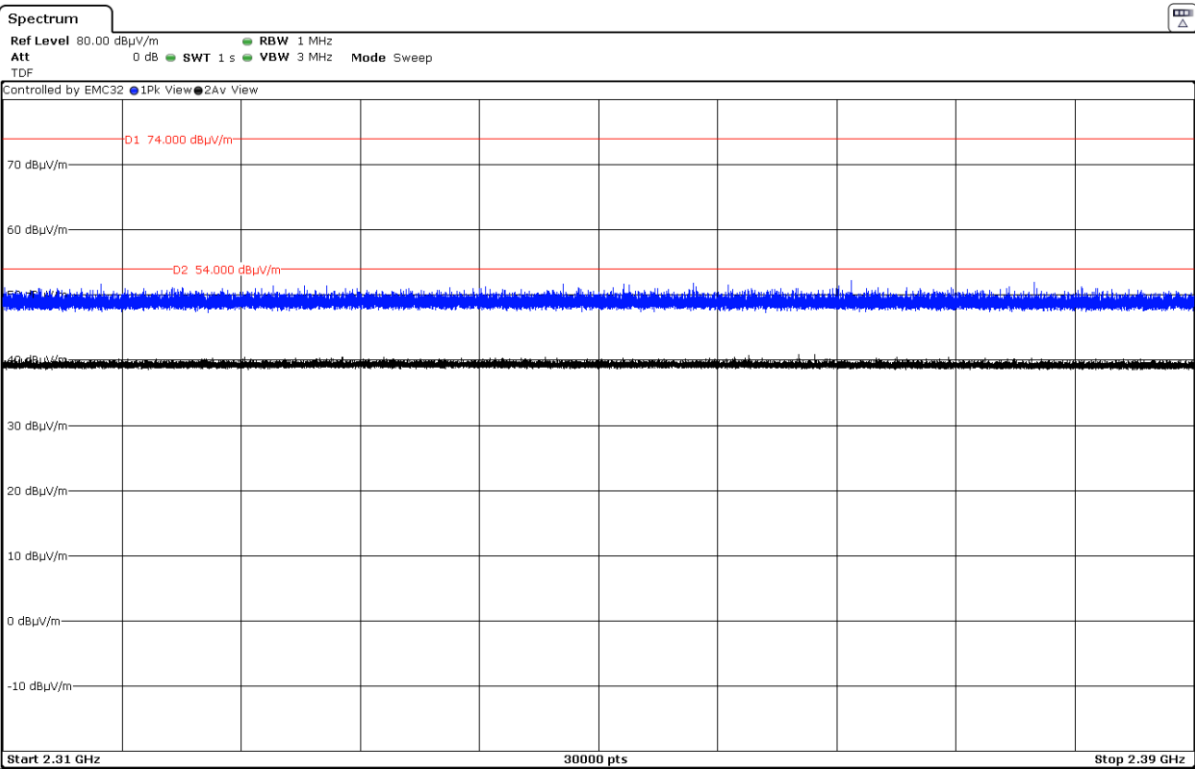
- CH 4:



- CH 5:

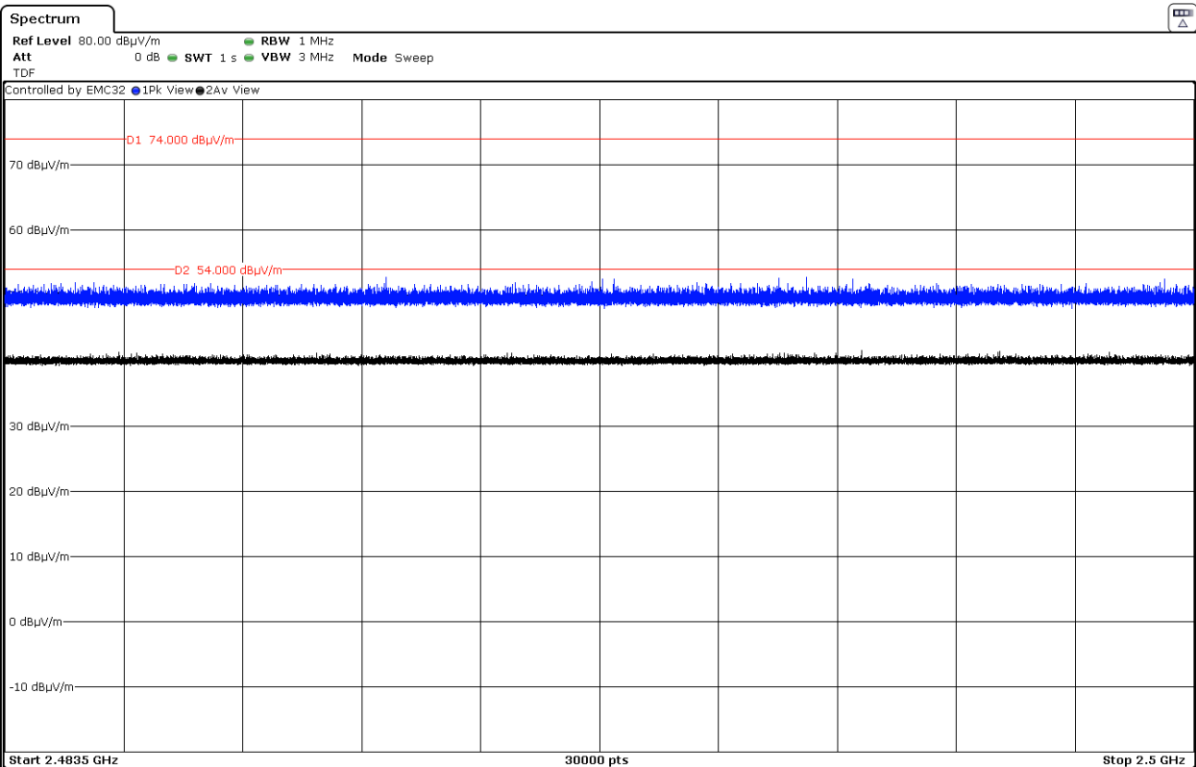


- CH 6:

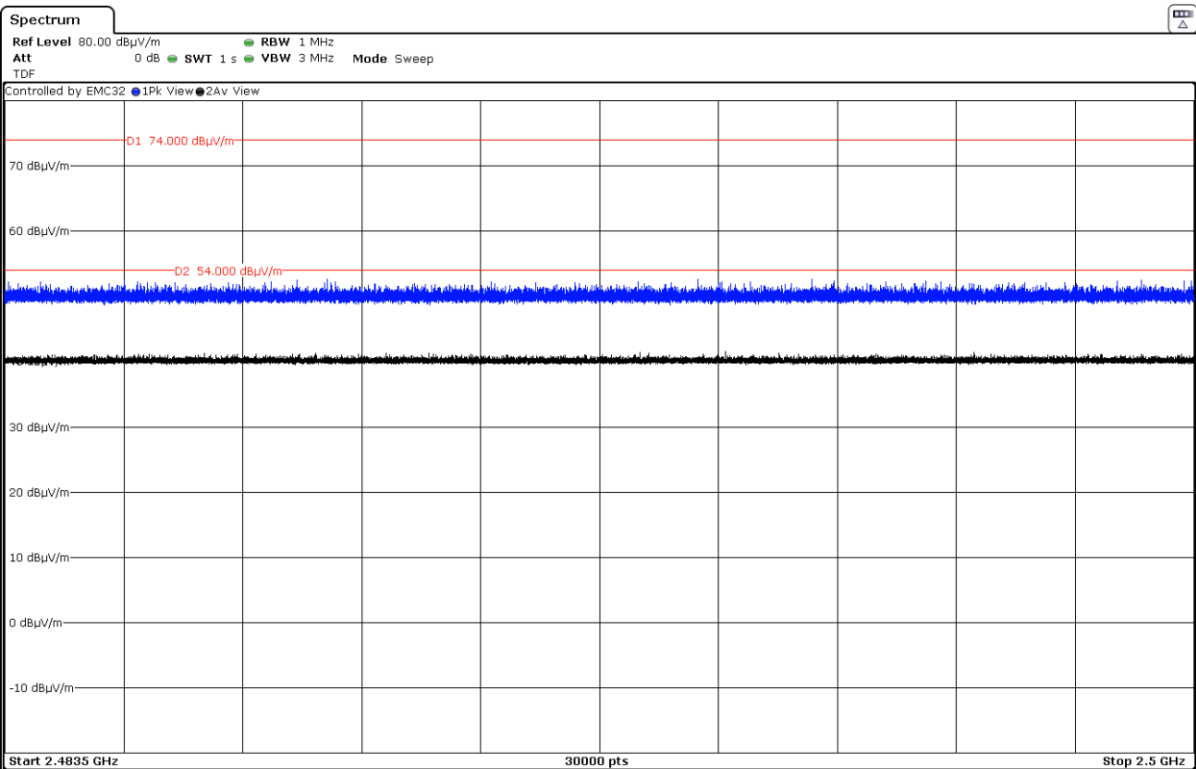


FREQUENCY RANGE 2.4835-2.5 GHz:

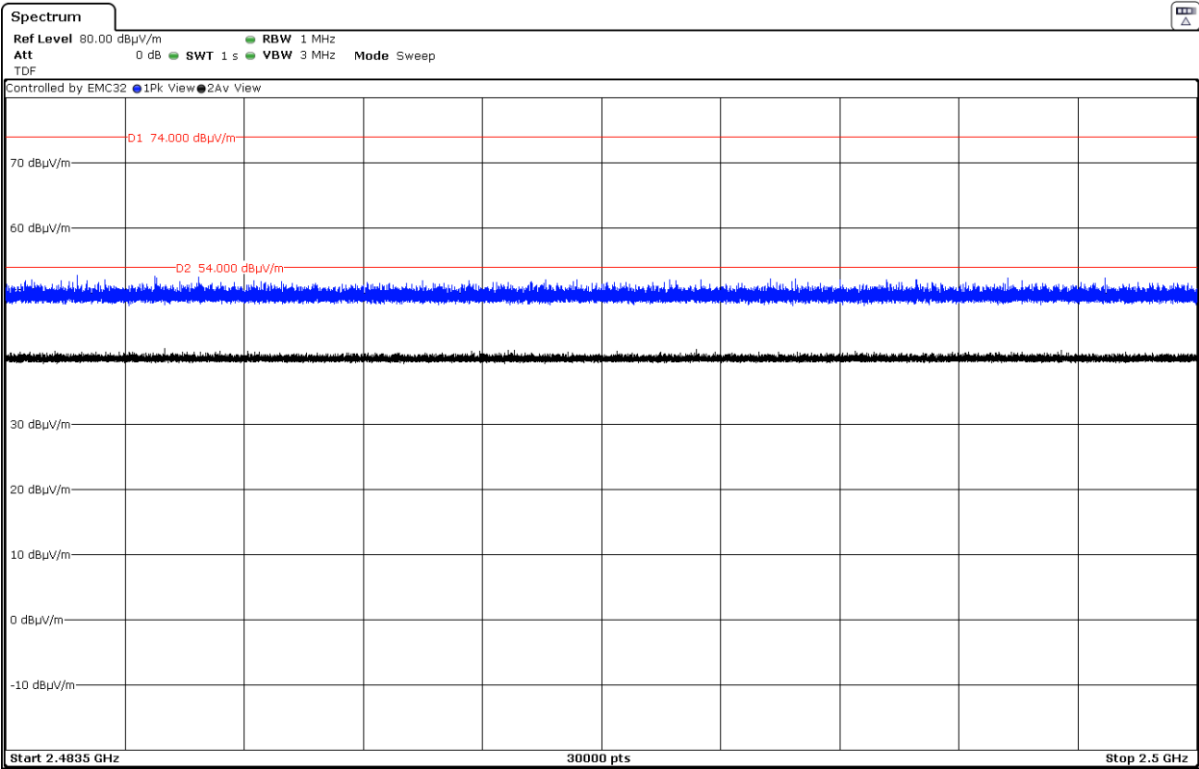
- CH 6:



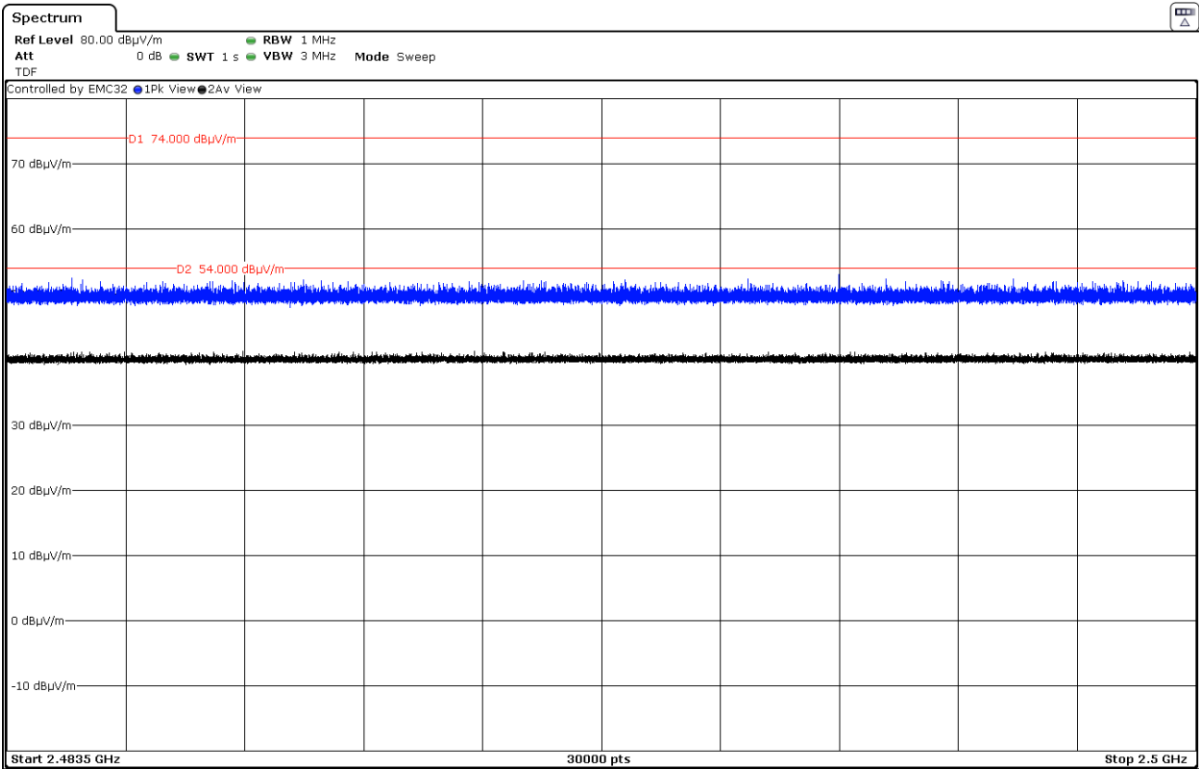
- CH 7:



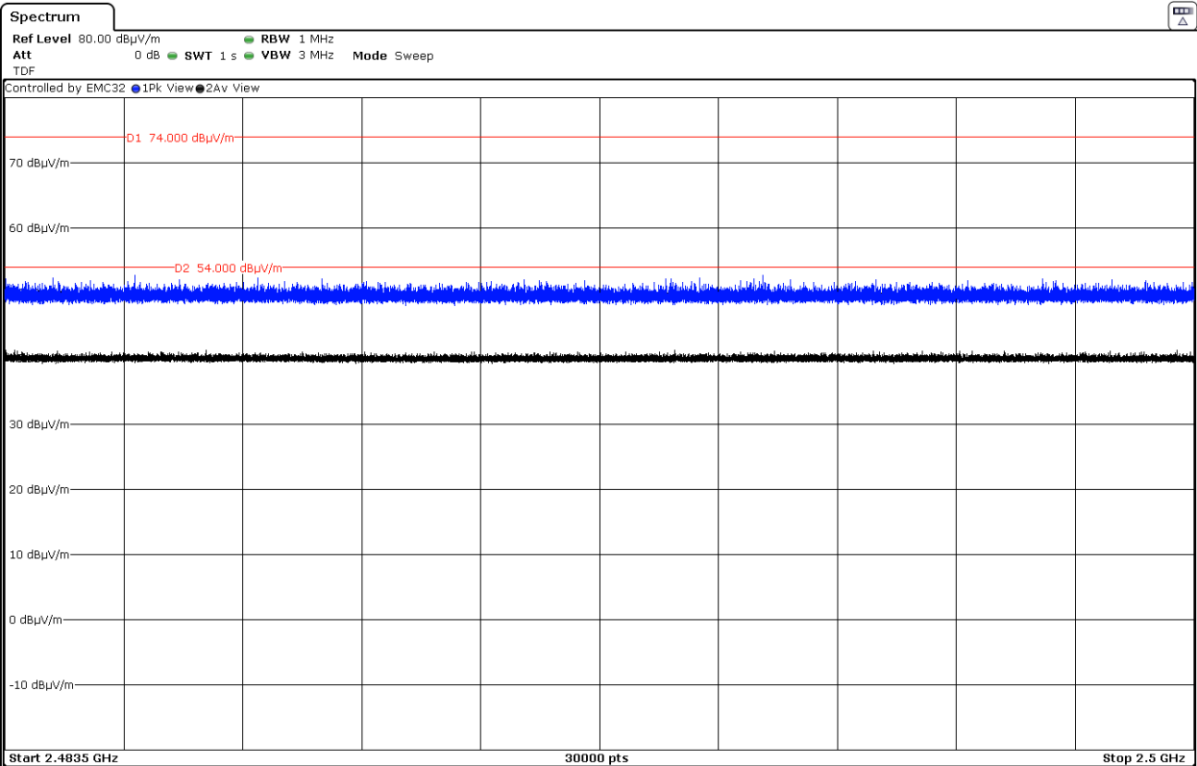
- CH 8:



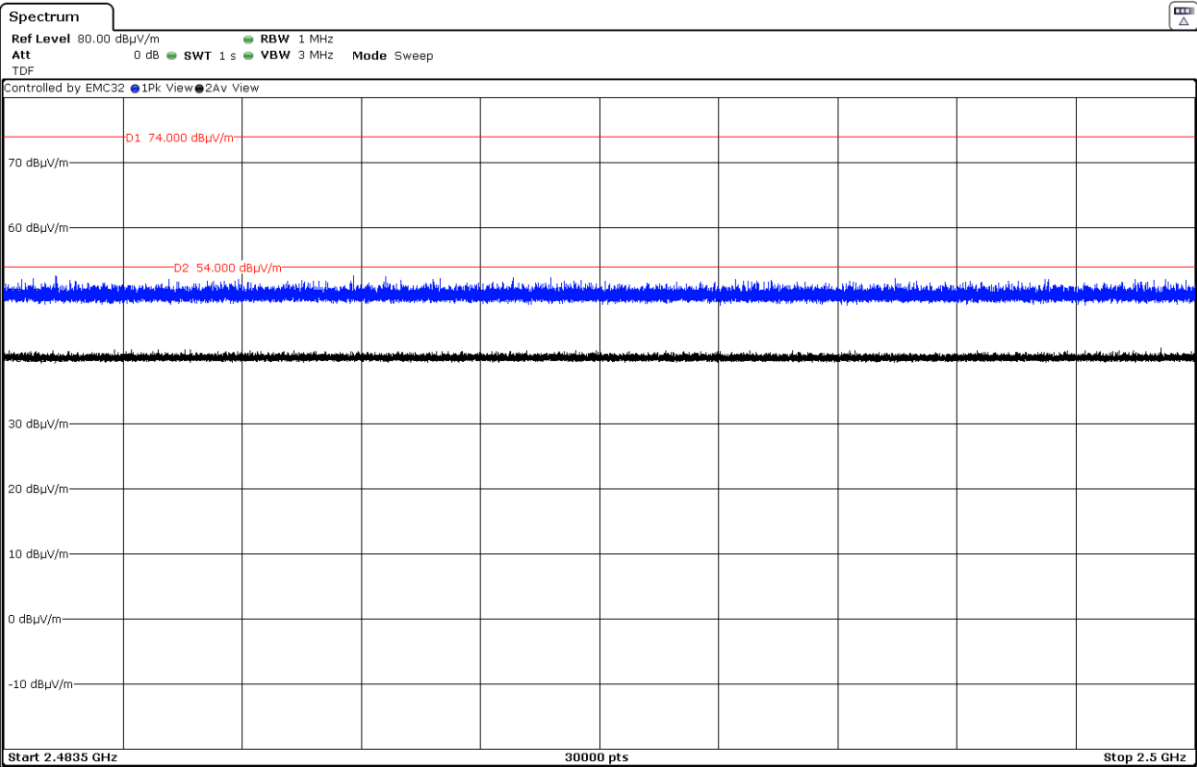
- CH 9:



- CH 10:



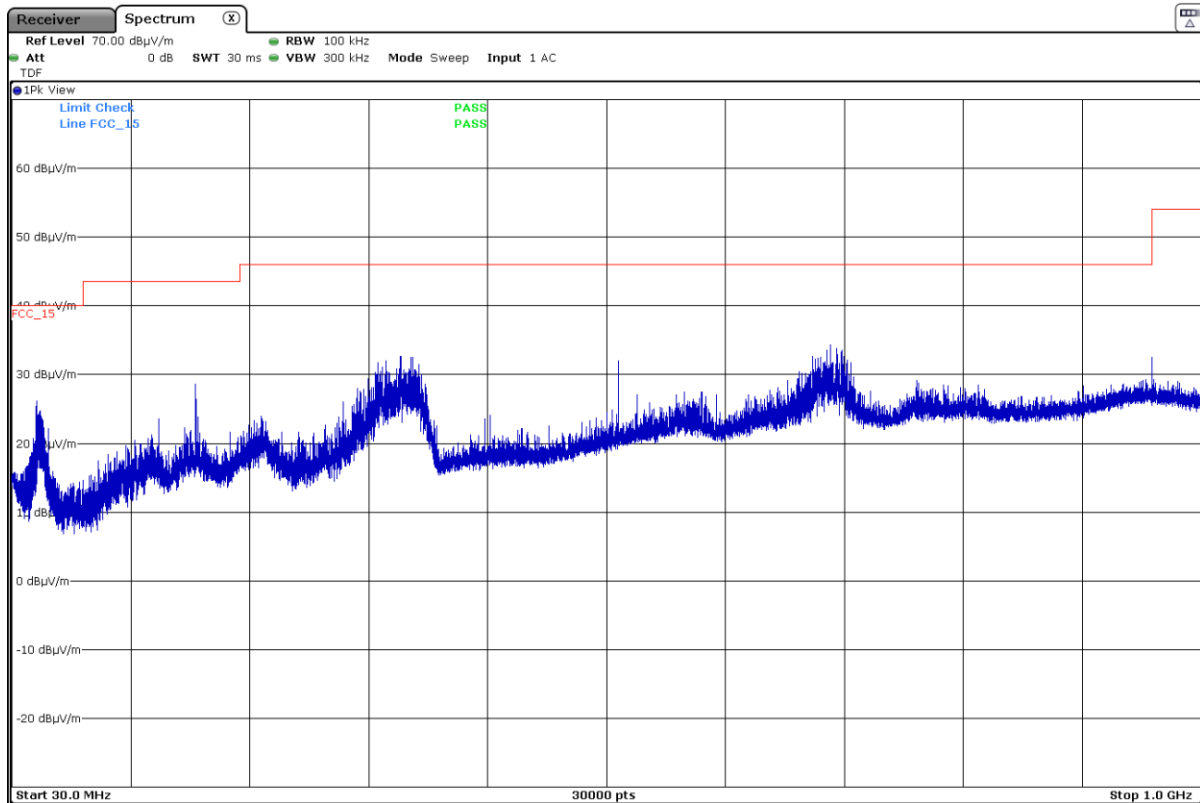
- High Channel. CH 11:



- **Mode 802.11 g (OFDM worst case for spurious emissions).**

FREQUENCY RANGE 30 MHz - 1 GHz:

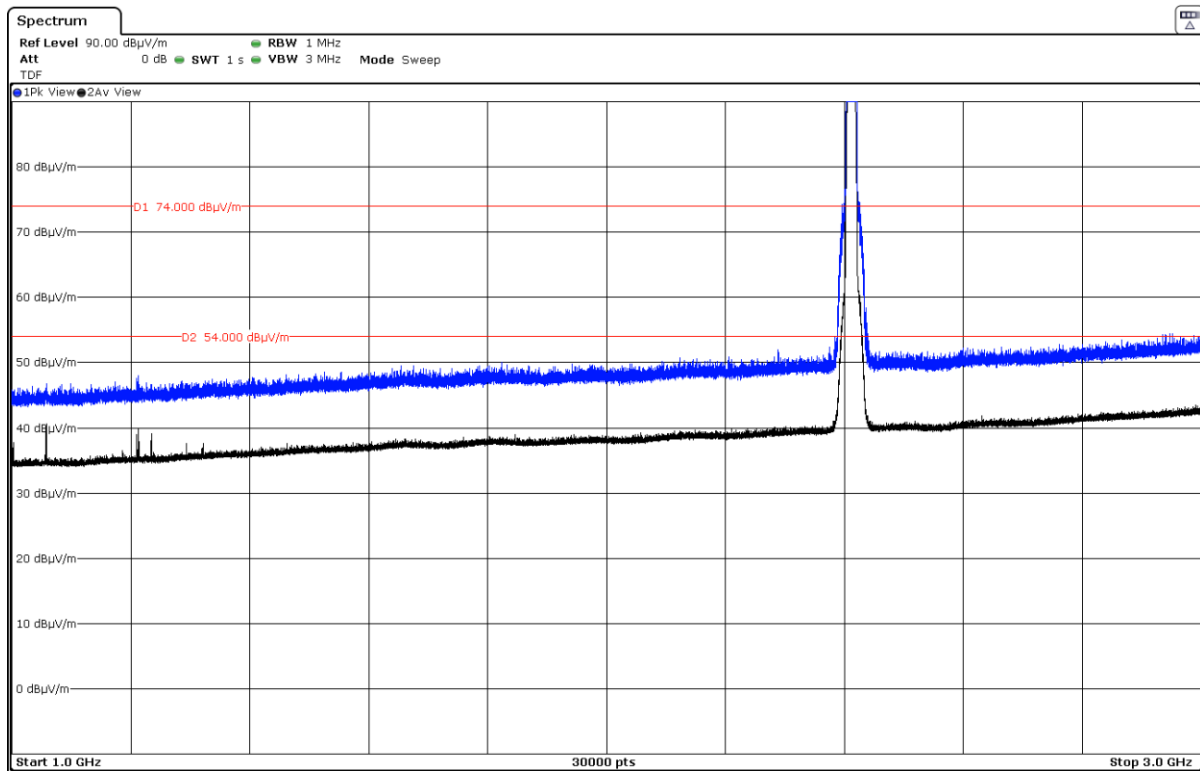
The spurious signals detected do not depend on the operating channel.



Note: This plot is valid for all three channels.

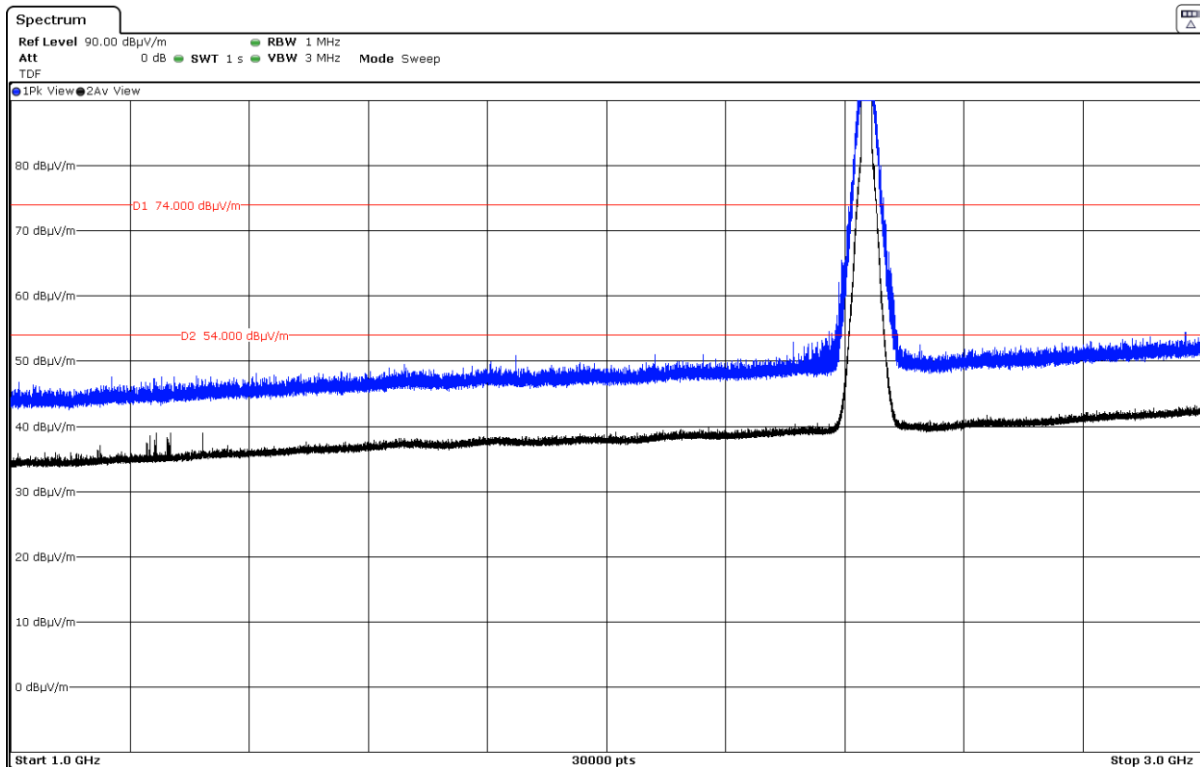
FREQUENCY RANGE 1 - 3 GHz:

- Low Channel:



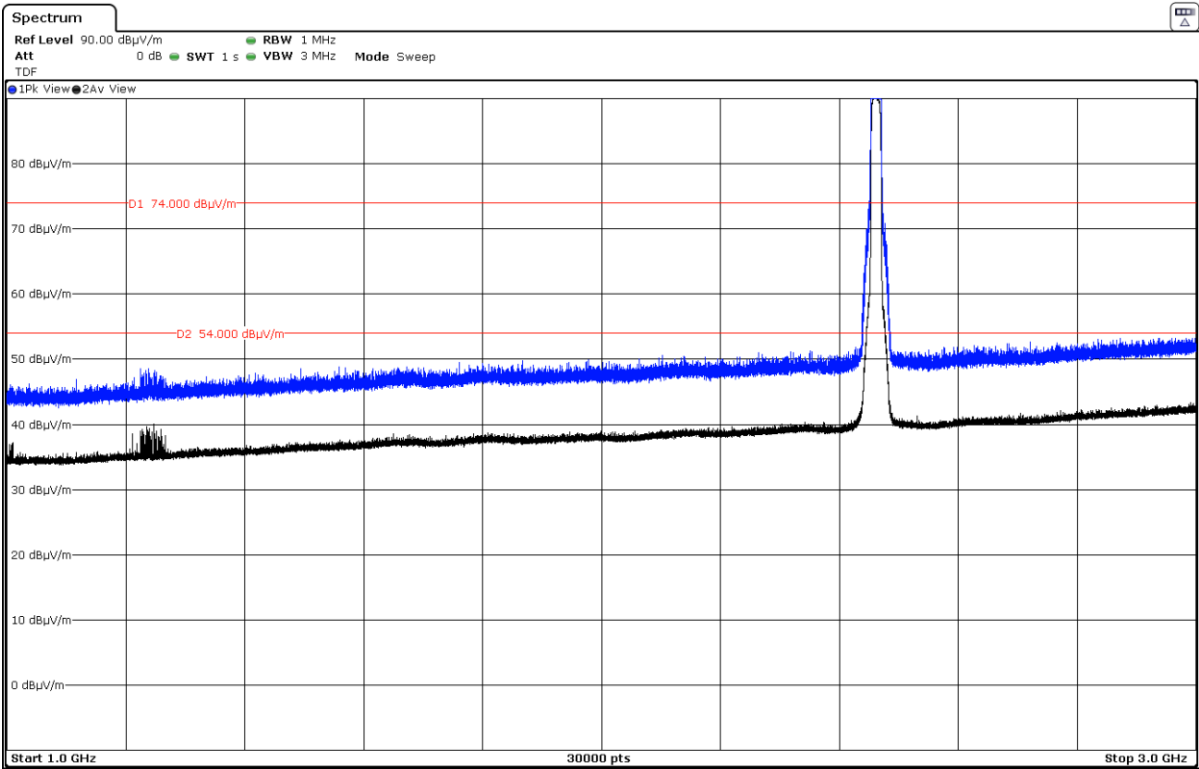
The peak above the limit is the carrier frequency.

- Middle Channel:



The peak above the limit is the carrier frequency.

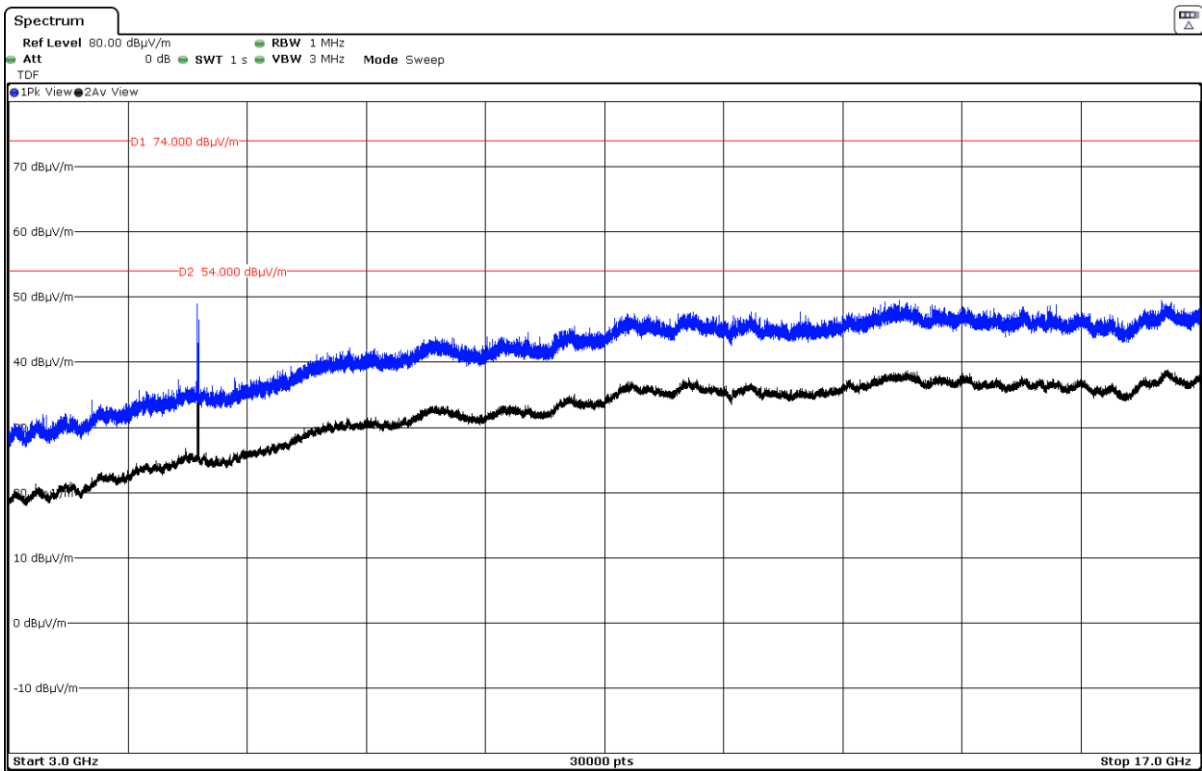
- High Channel:



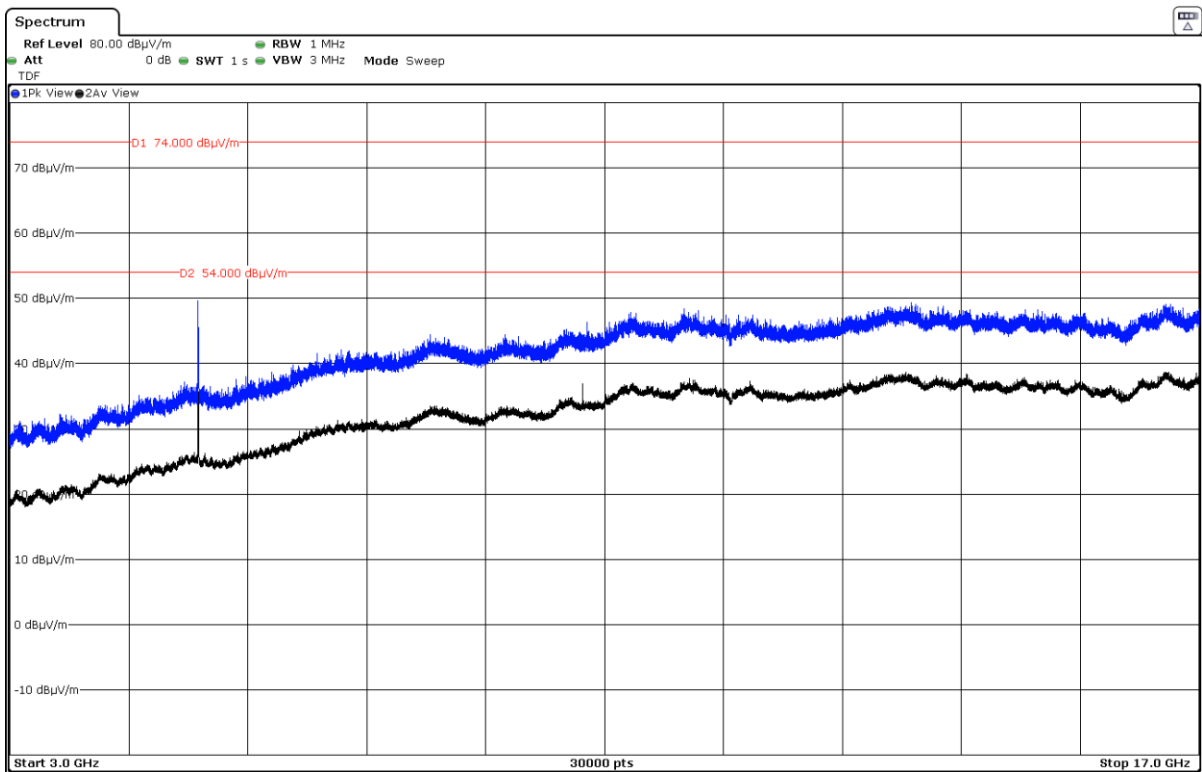
The peak above the limit is the carrier frequency.

FREQUENCY RANGE 3 - 17 GHz:

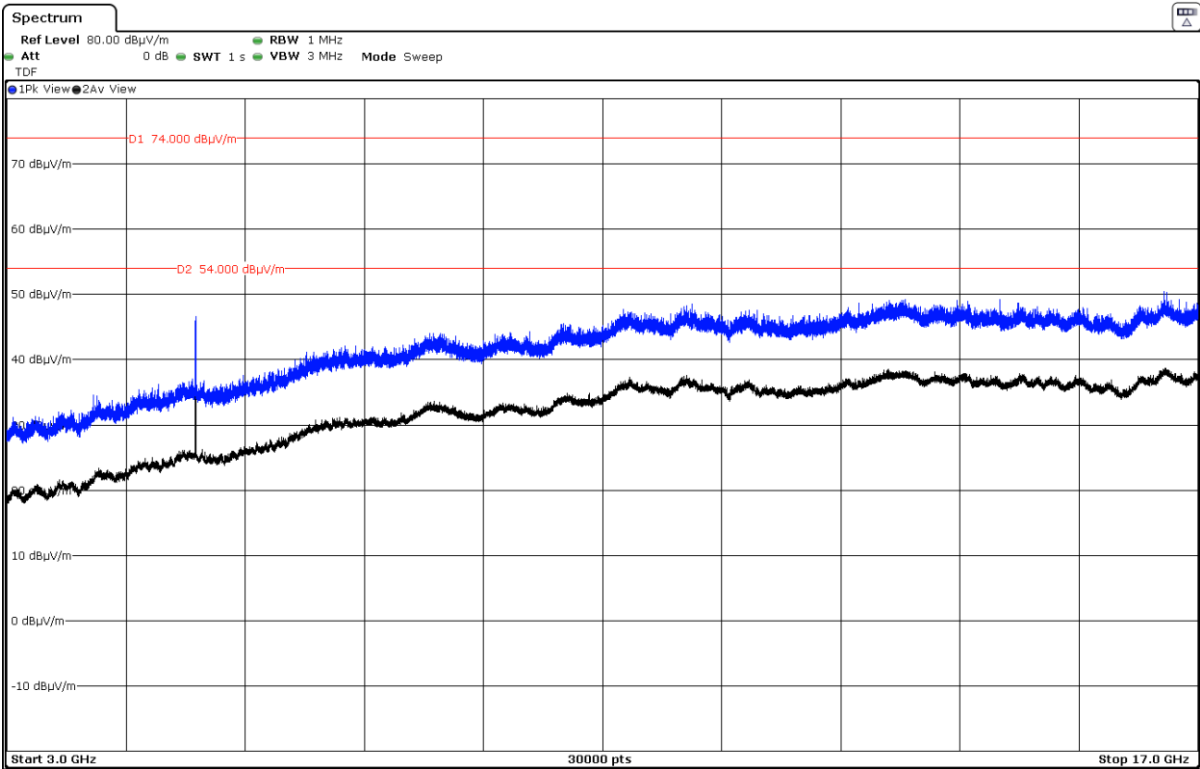
- Low Channel:



- Middle Channel:

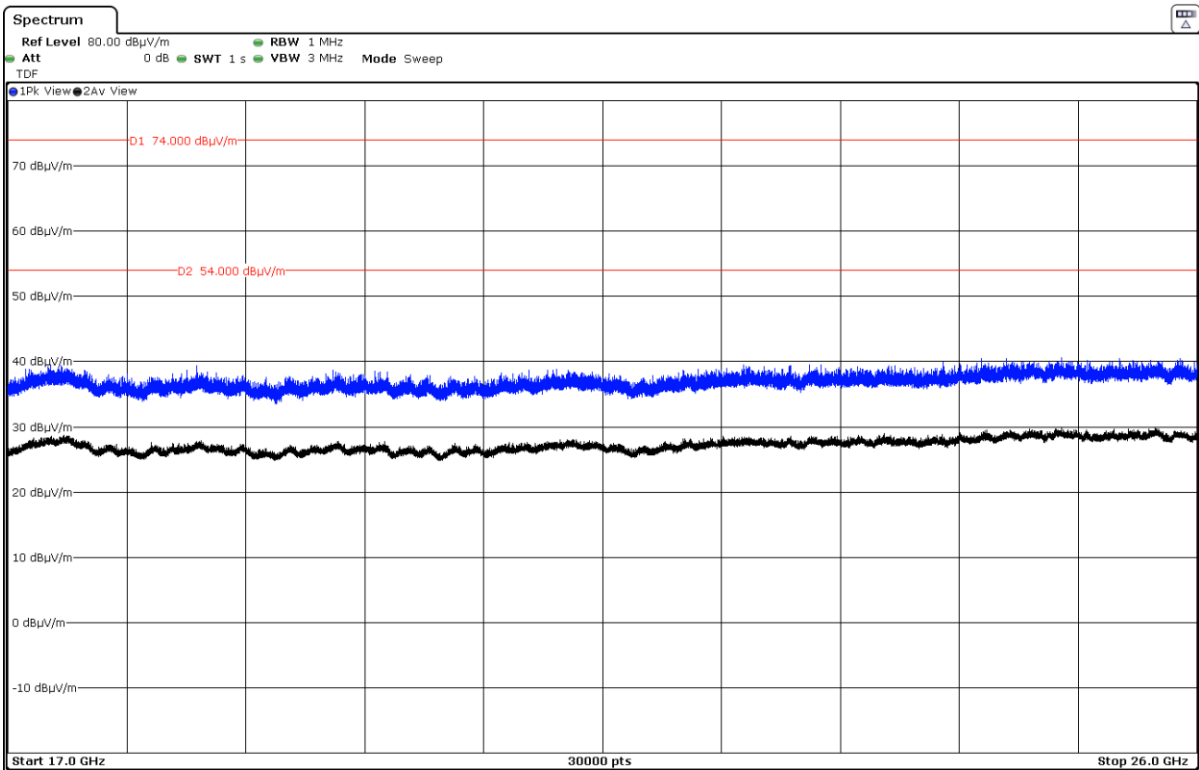


- High Channel:



FREQUENCY RANGE 17 - 26 GHz:

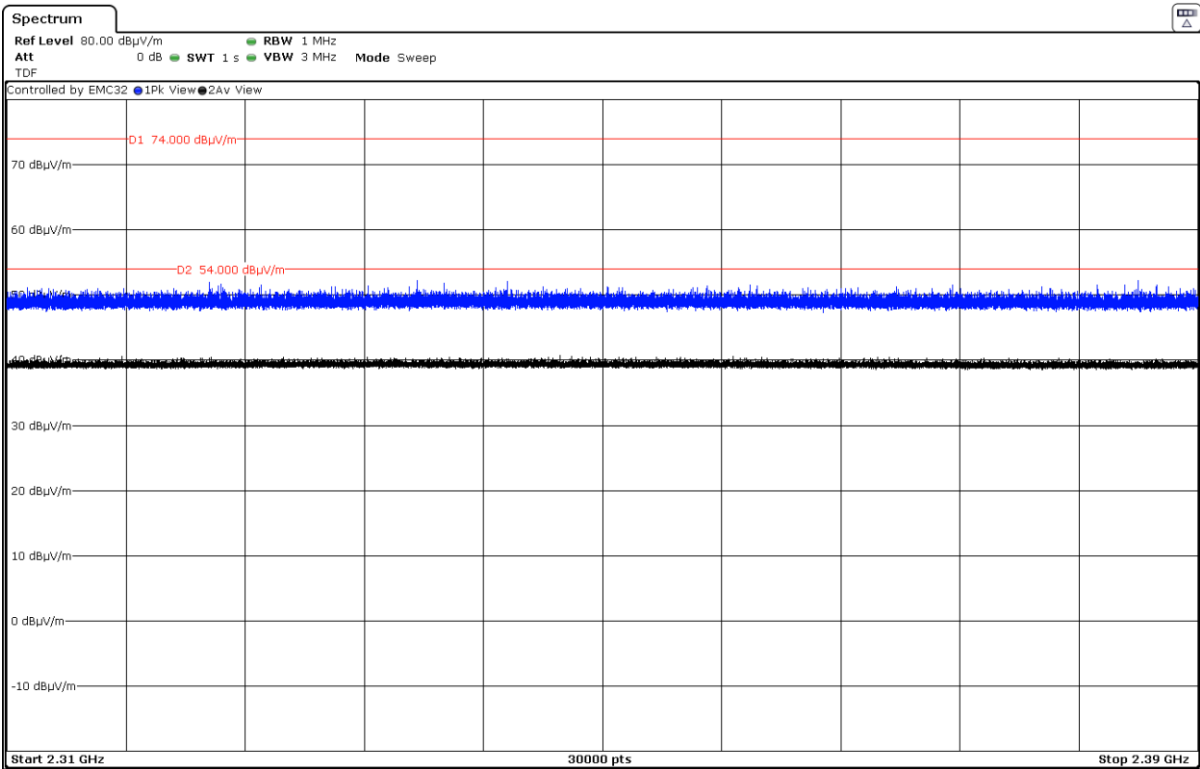
The spurious signals detected do not depend on the operating channel.



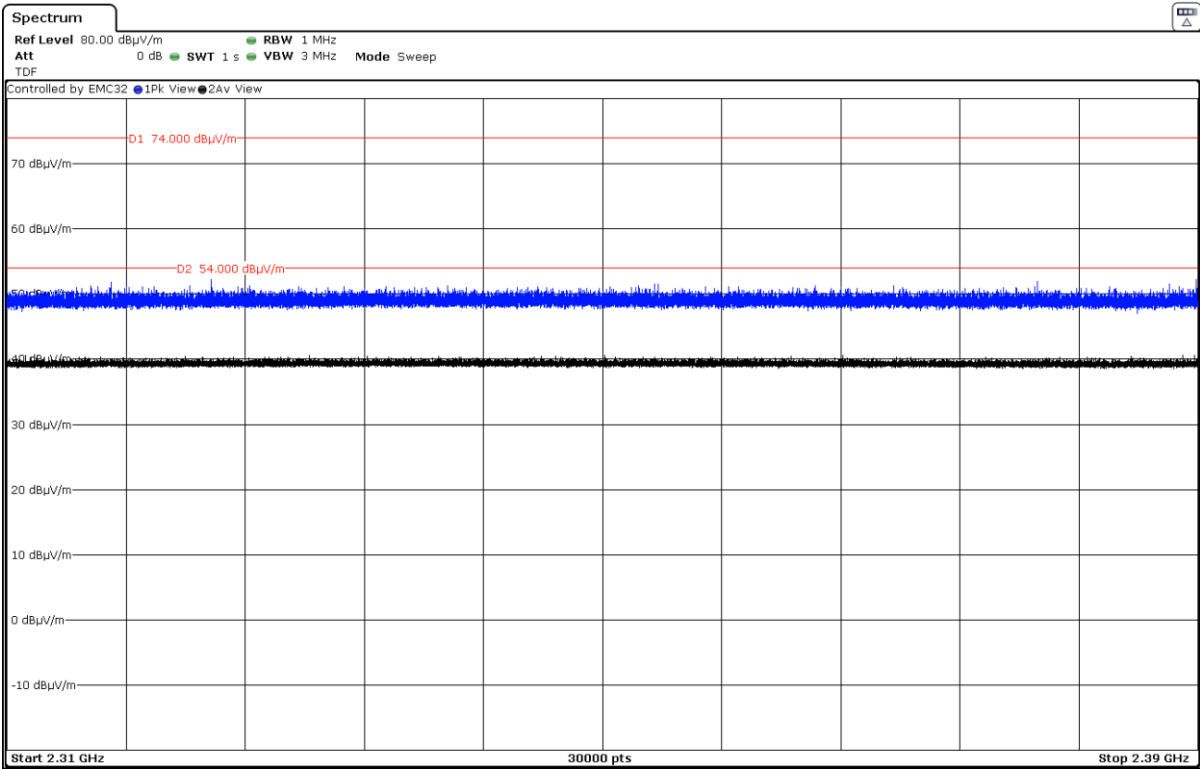
Note: This plot is valid for all three channels.

FREQUENCY RANGE 2.31-2.39 GHz:

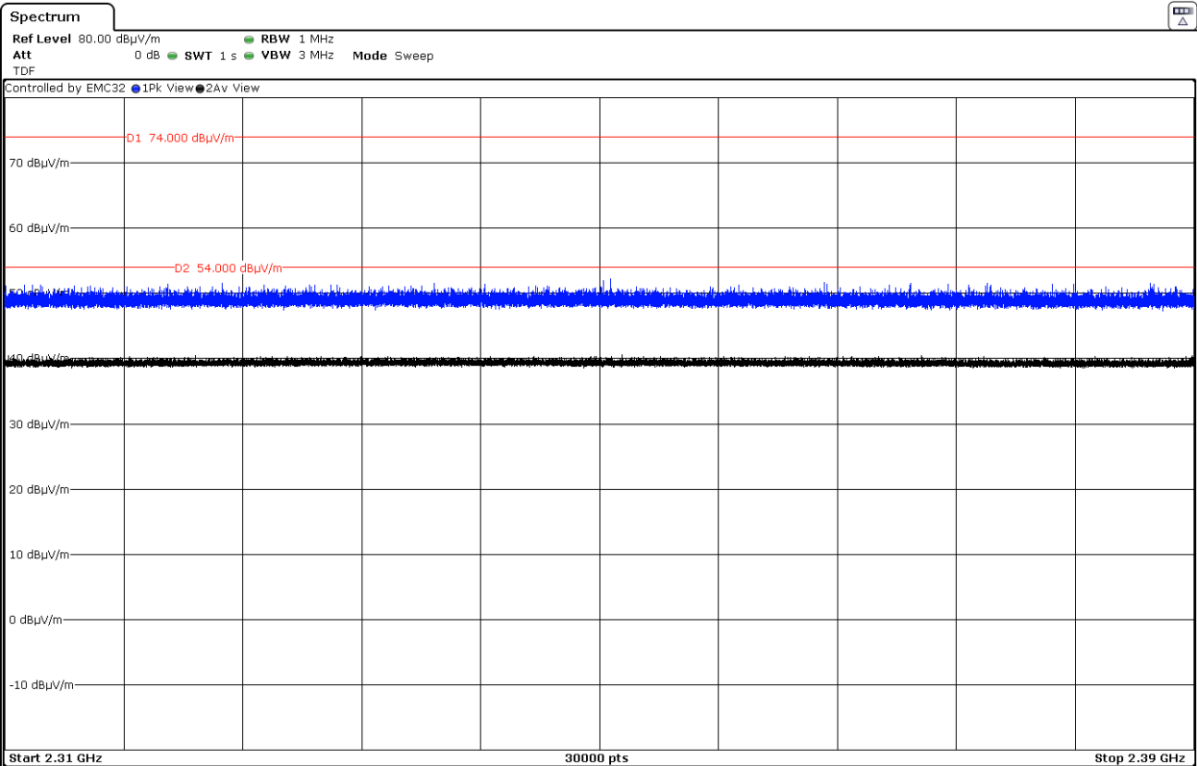
- Low Channel. CH 1:



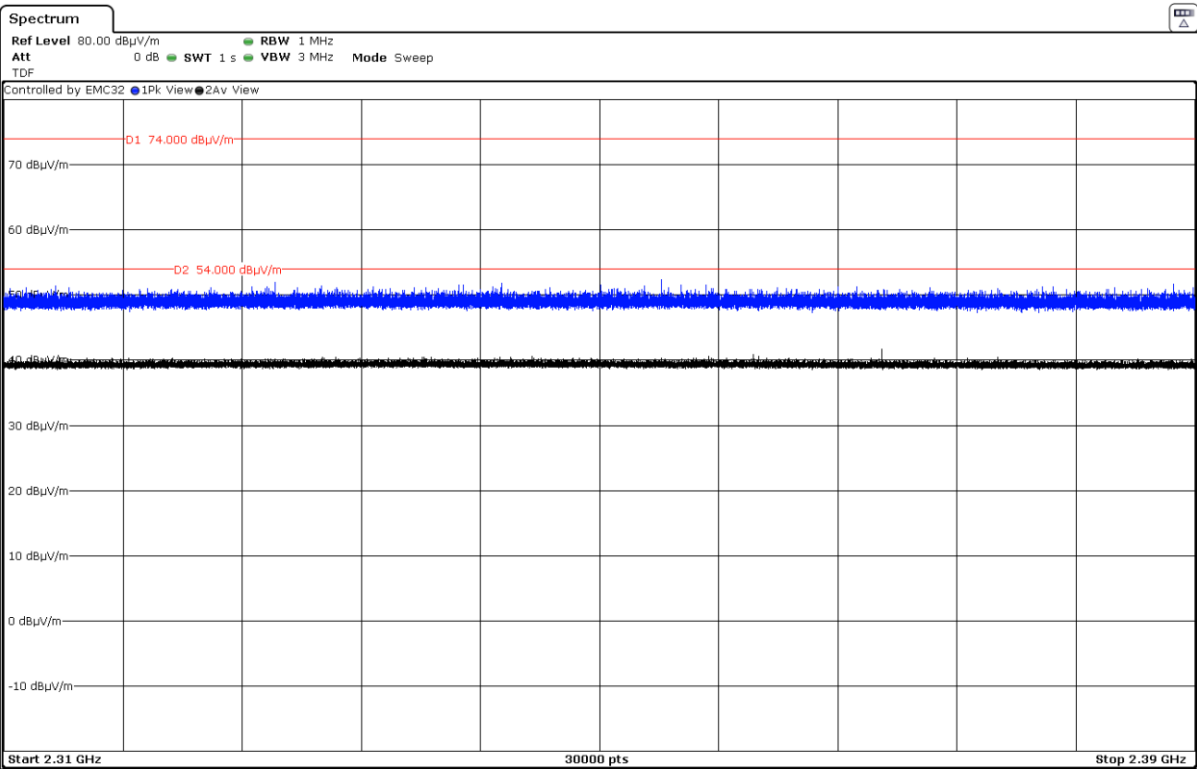
- CH 2:



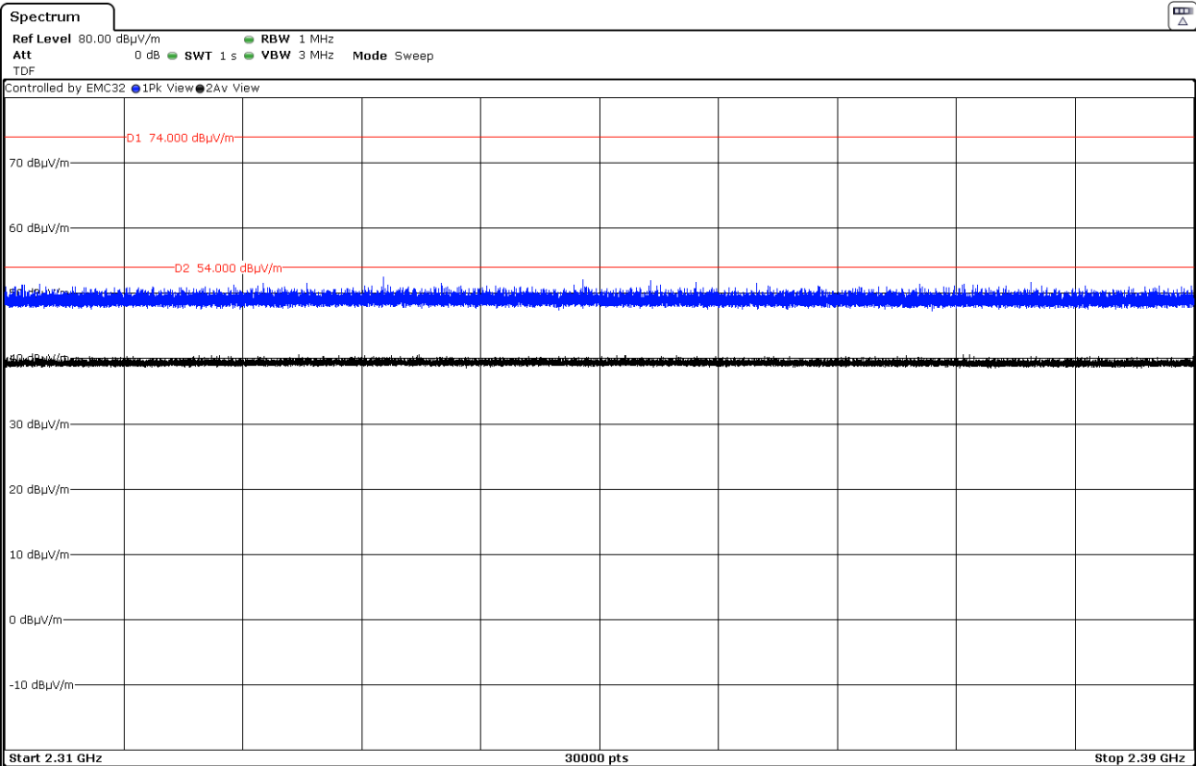
- CH 3:



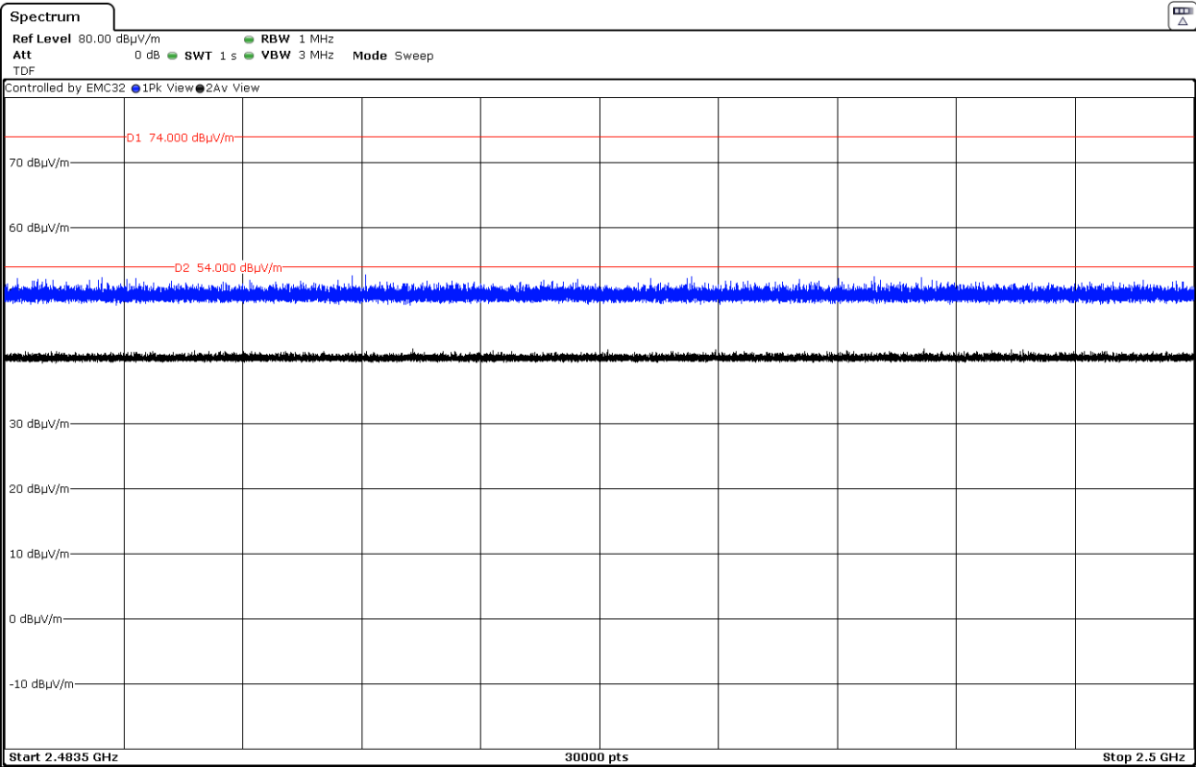
- CH 4:



- CH 5:

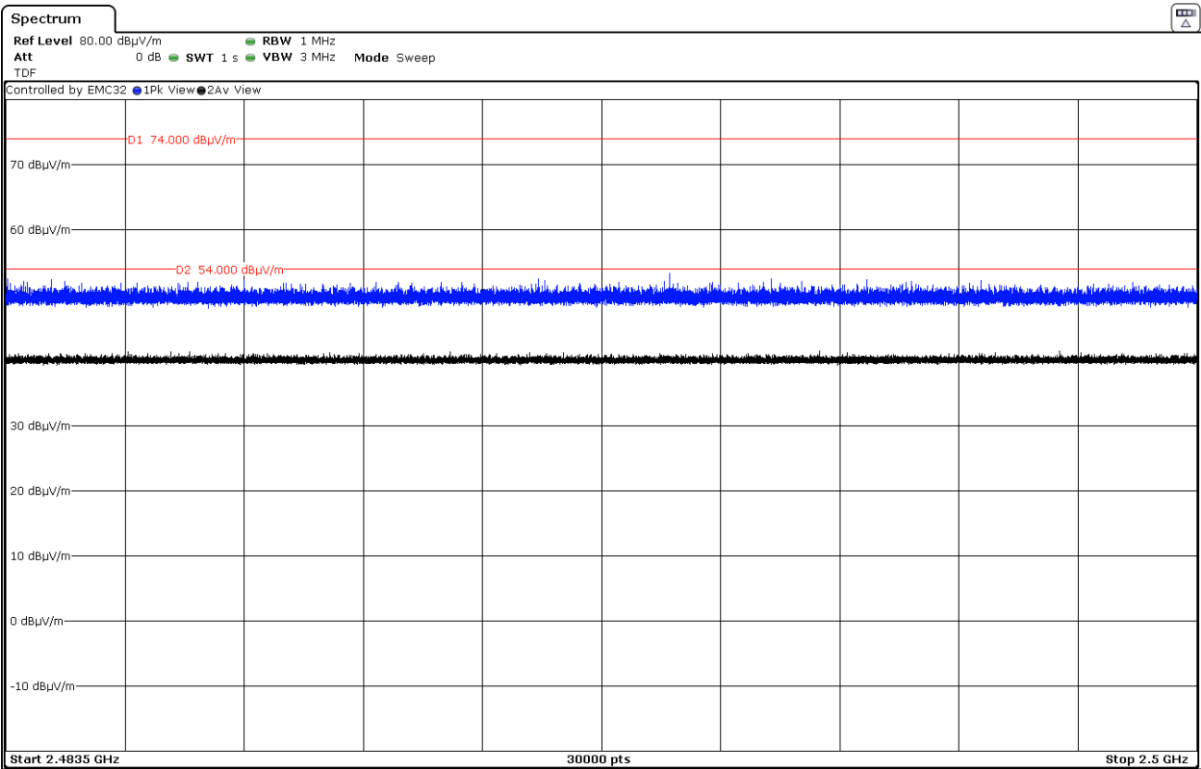


- CH 6:

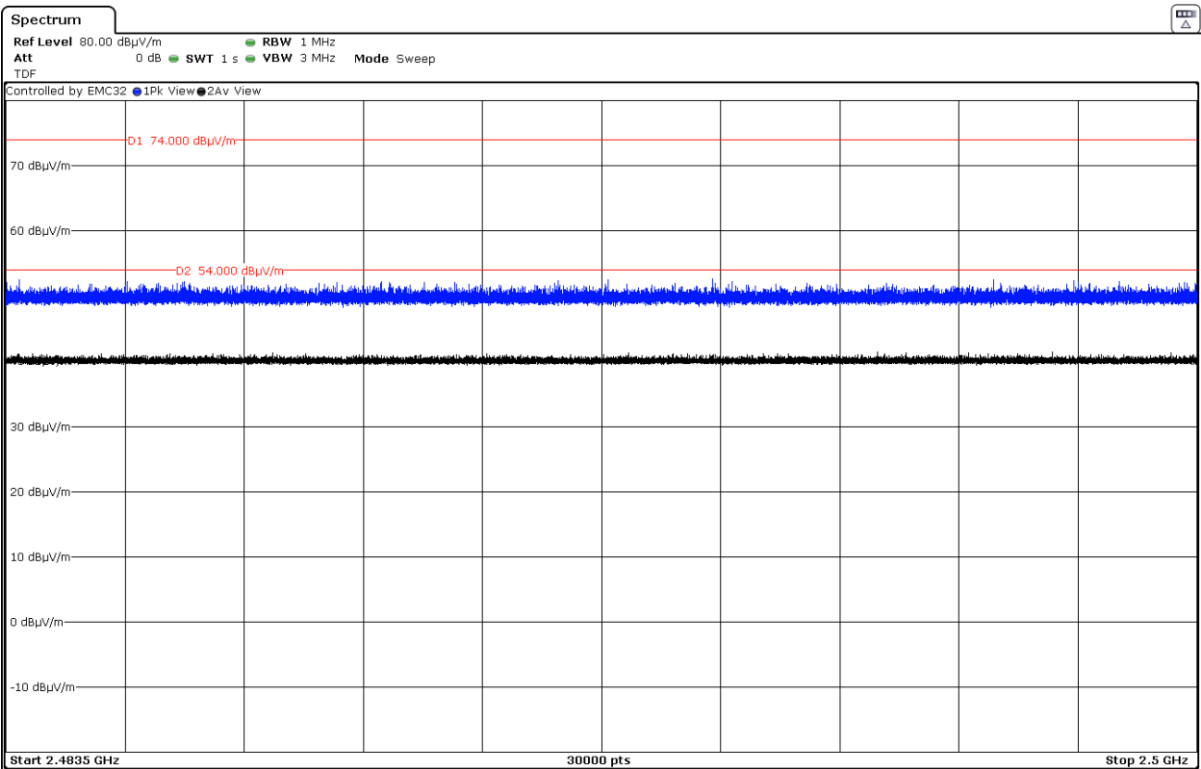


FREQUENCY RANGE 2.4835-2.5 GHz:

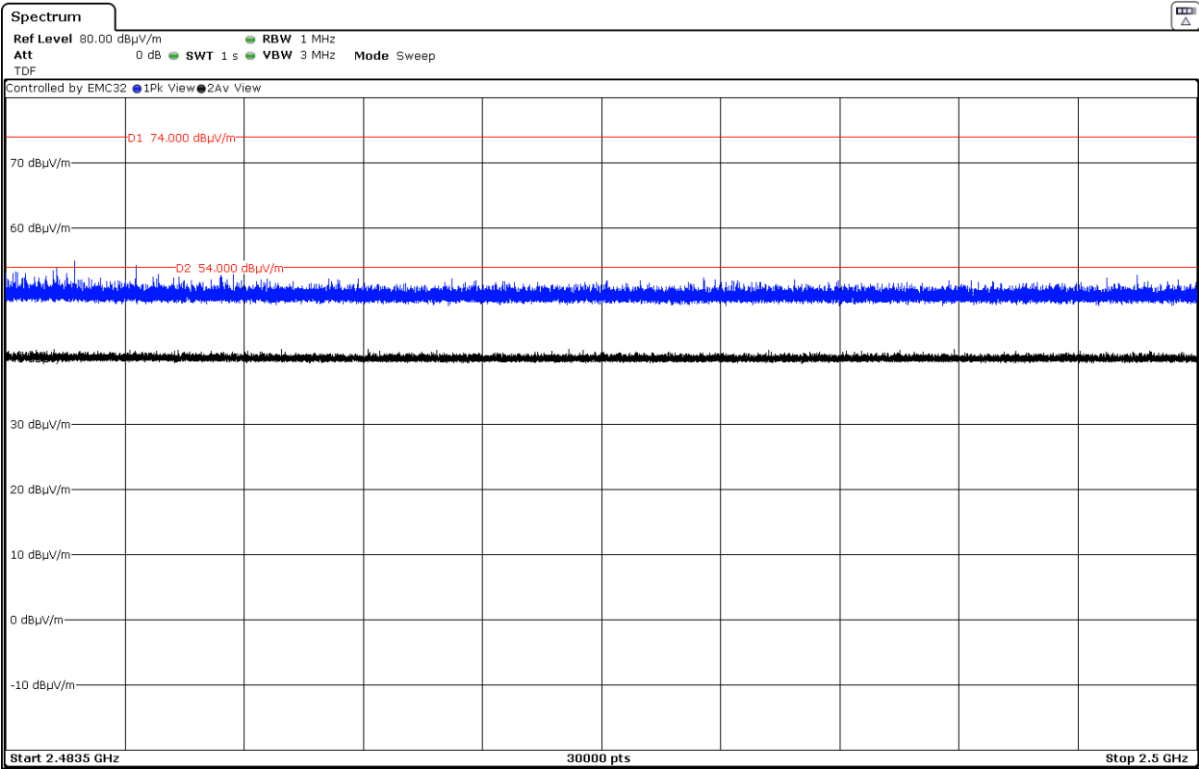
- CH 6:



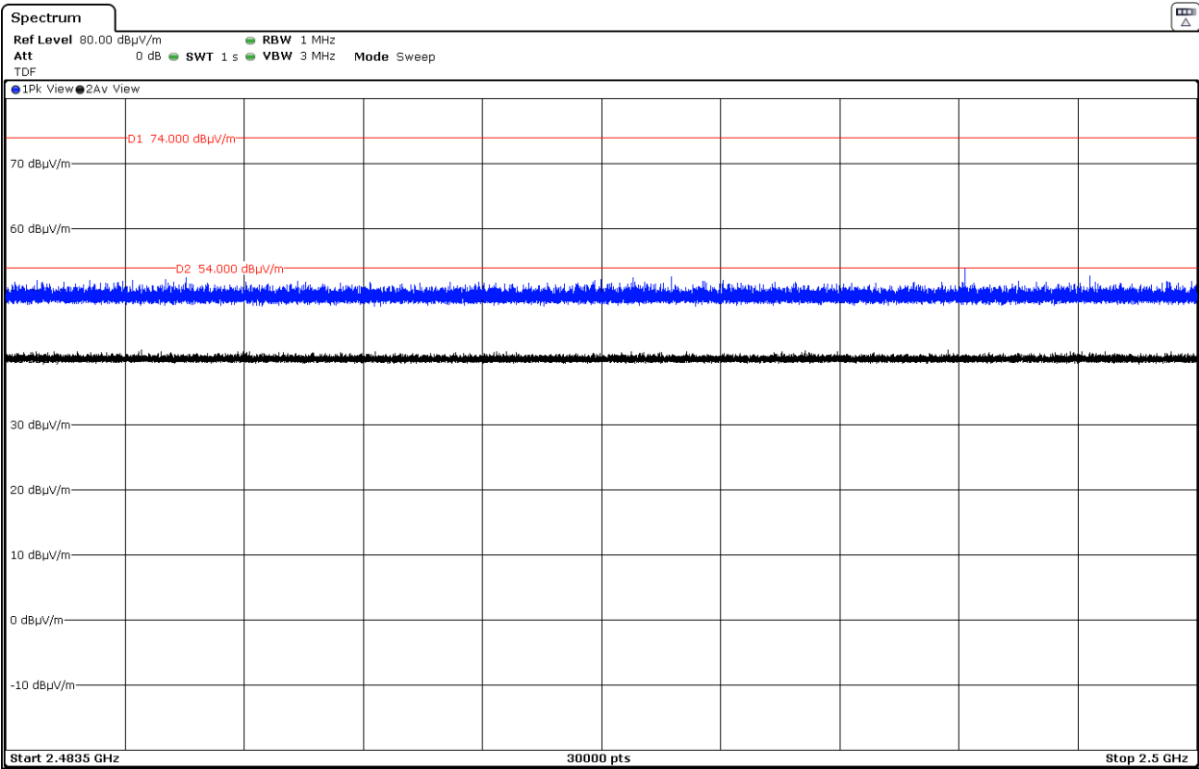
- CH 7:



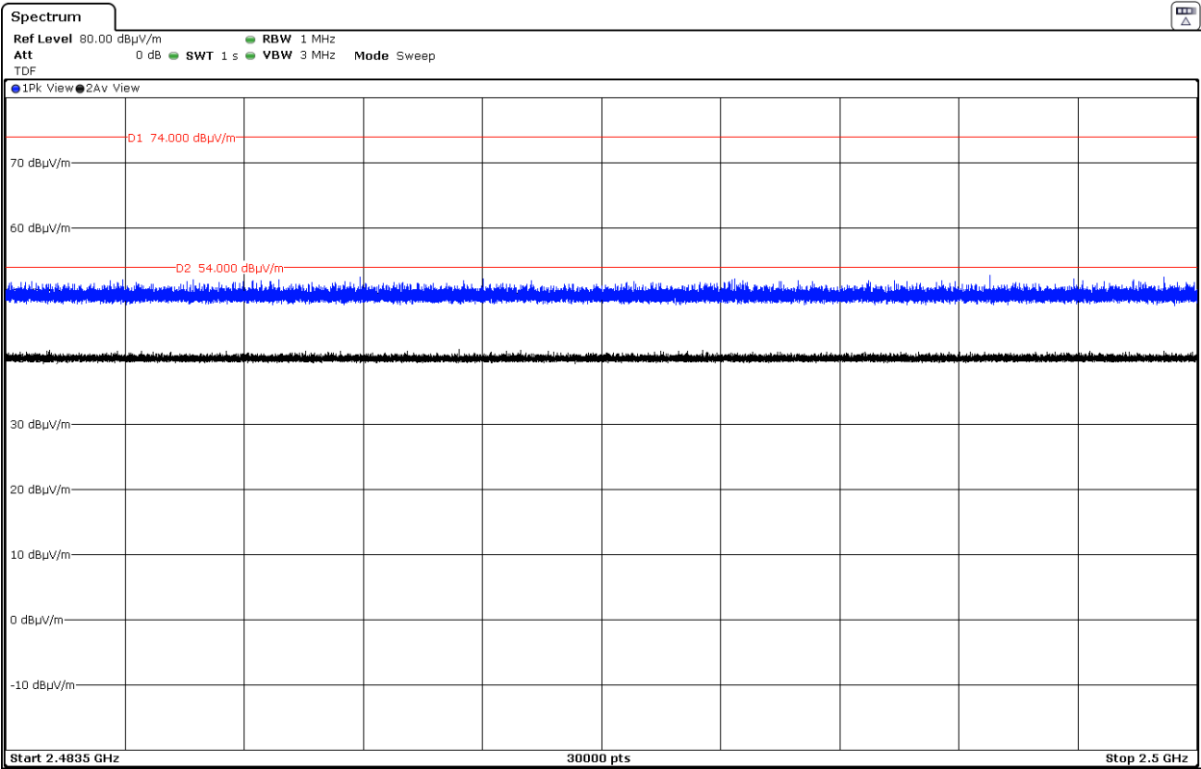
- CH 8:



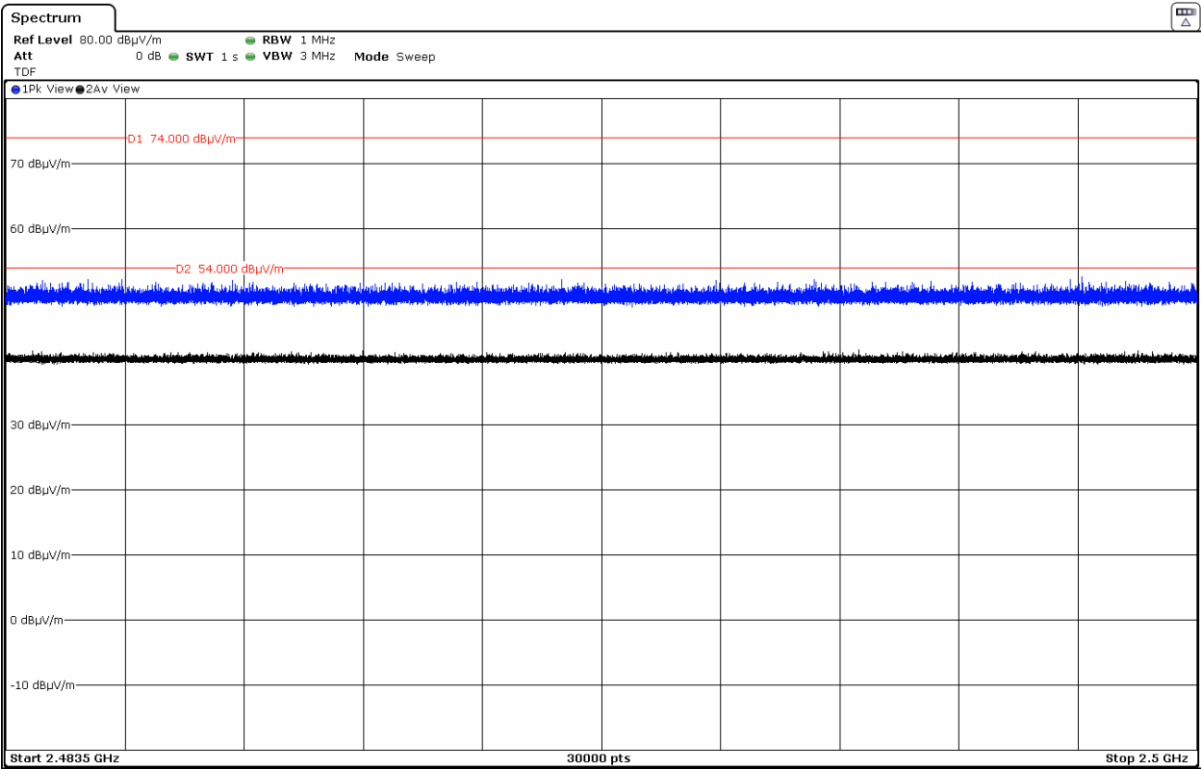
- CH 9:



- CH 10:



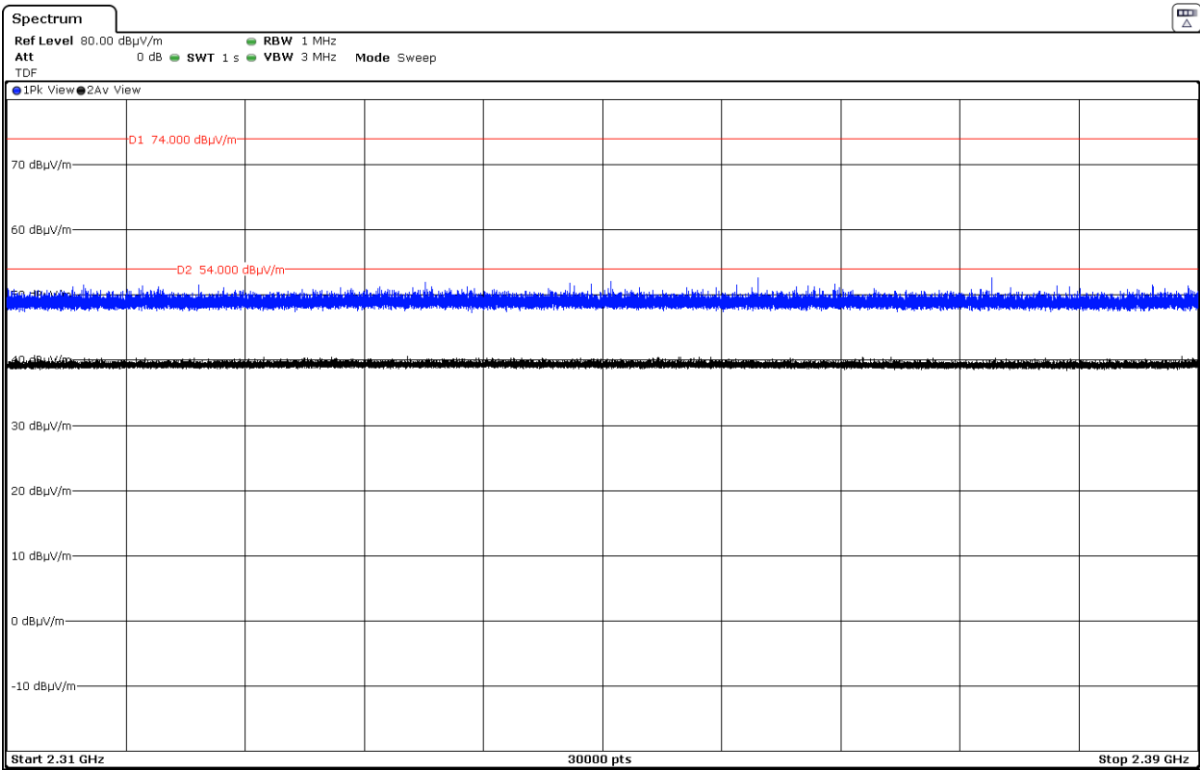
- High Channel. CH 11:



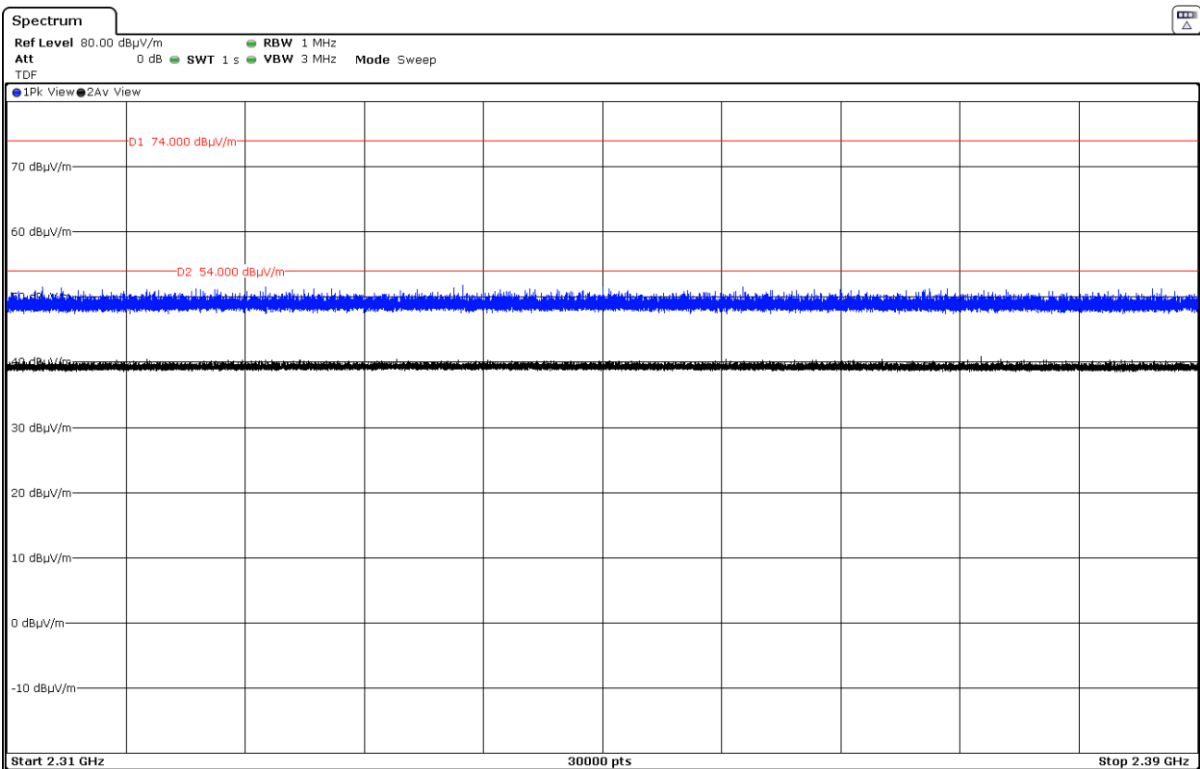
• 802.11 n20

FREQUENCY RANGE 2.31-2.39 GHz (Restricted Band 1):

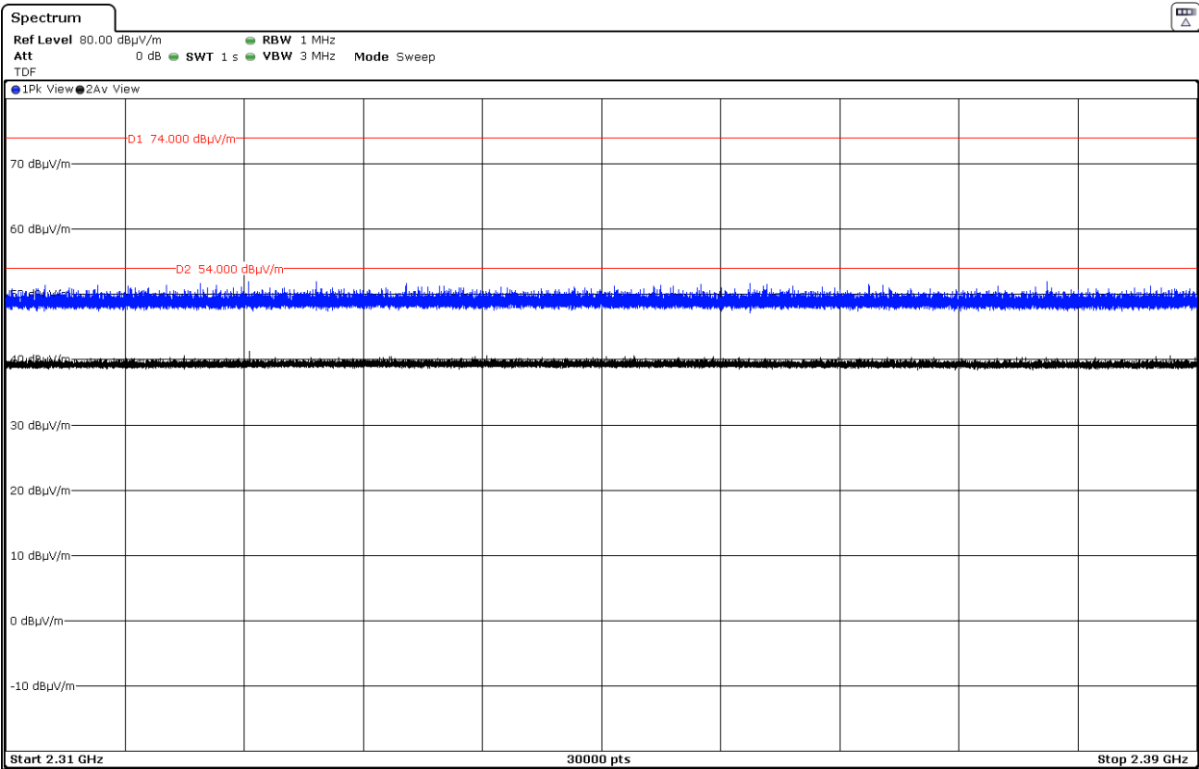
- Low Channel. CH 1:



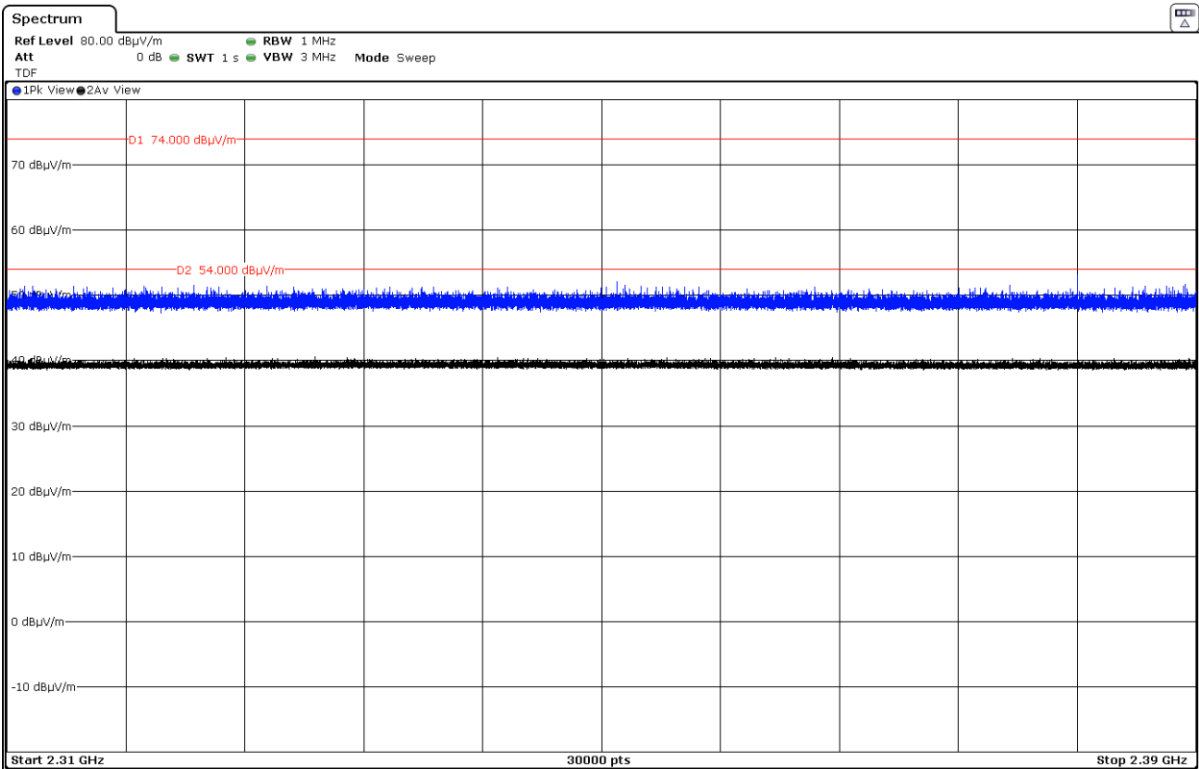
- CH 2:



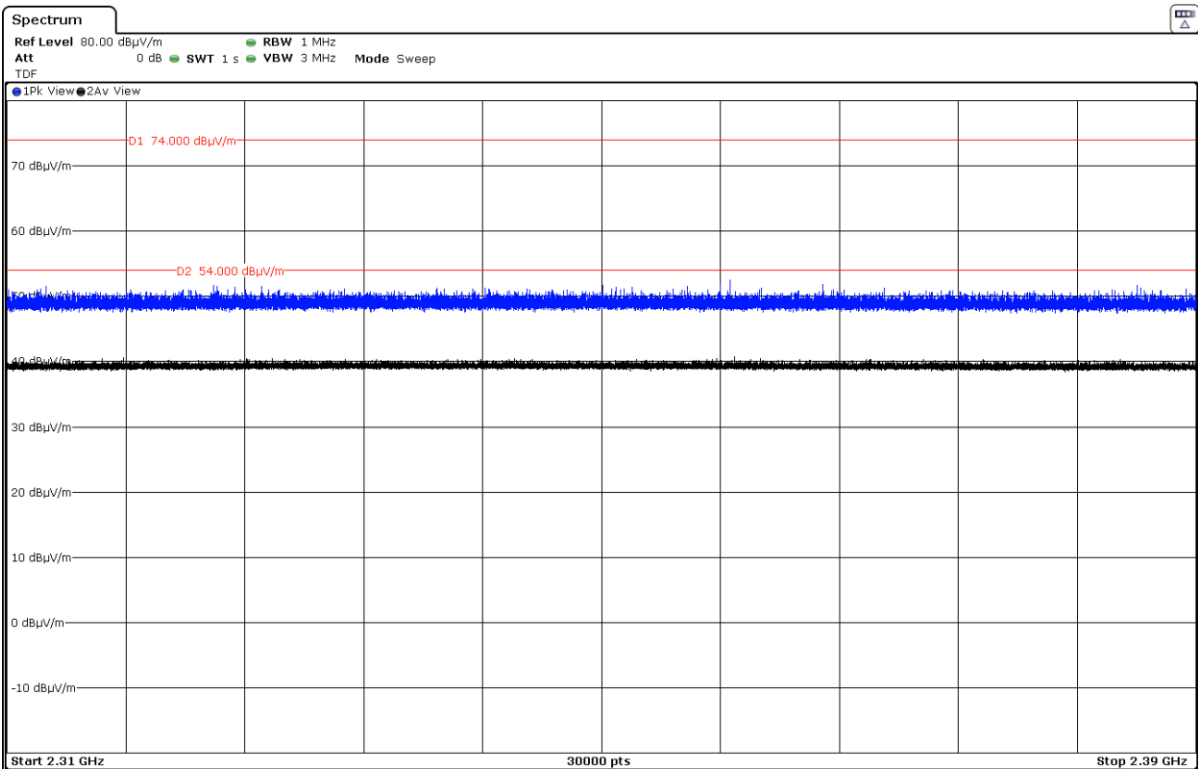
- CH 3:



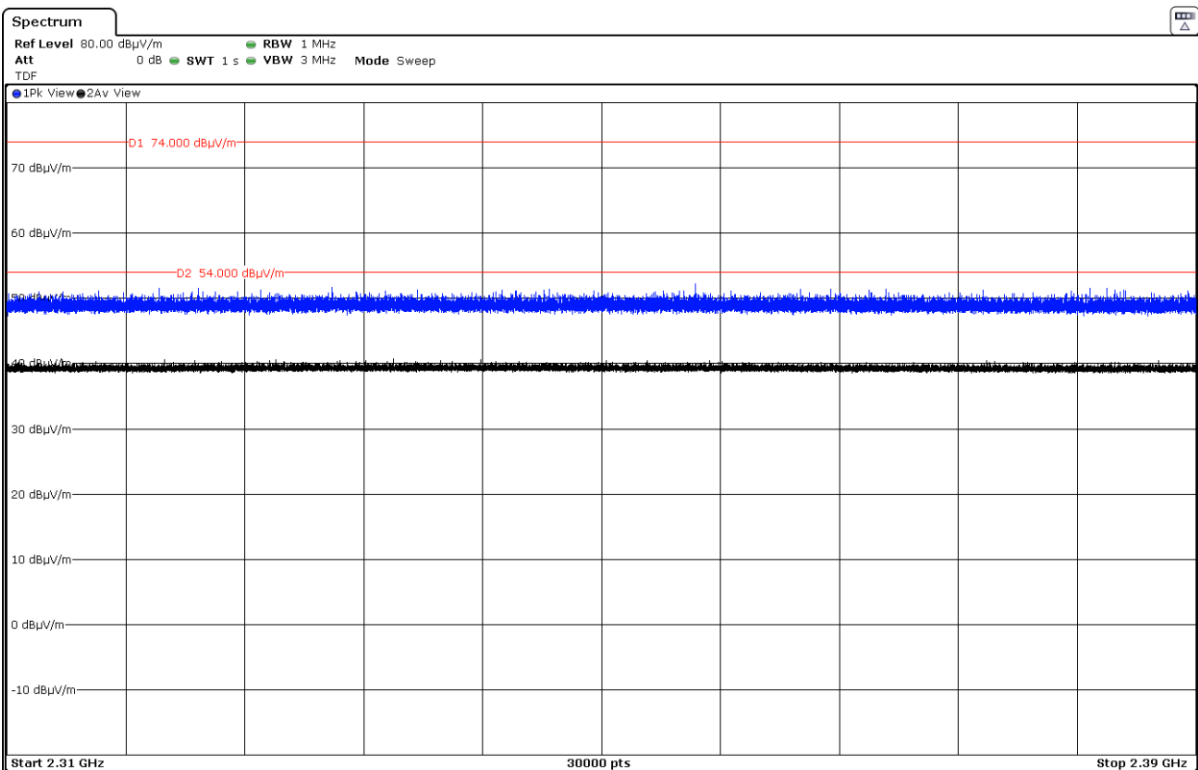
- CH 4:



- CH 5:

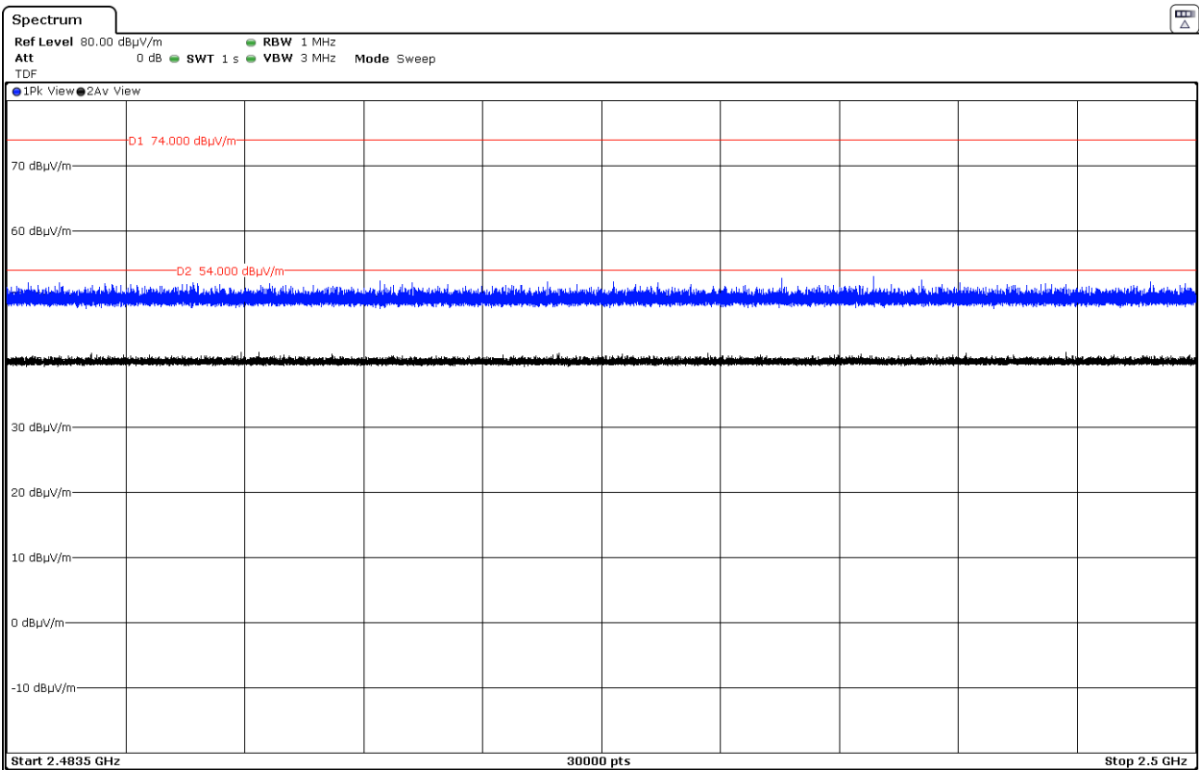


- CH 6:

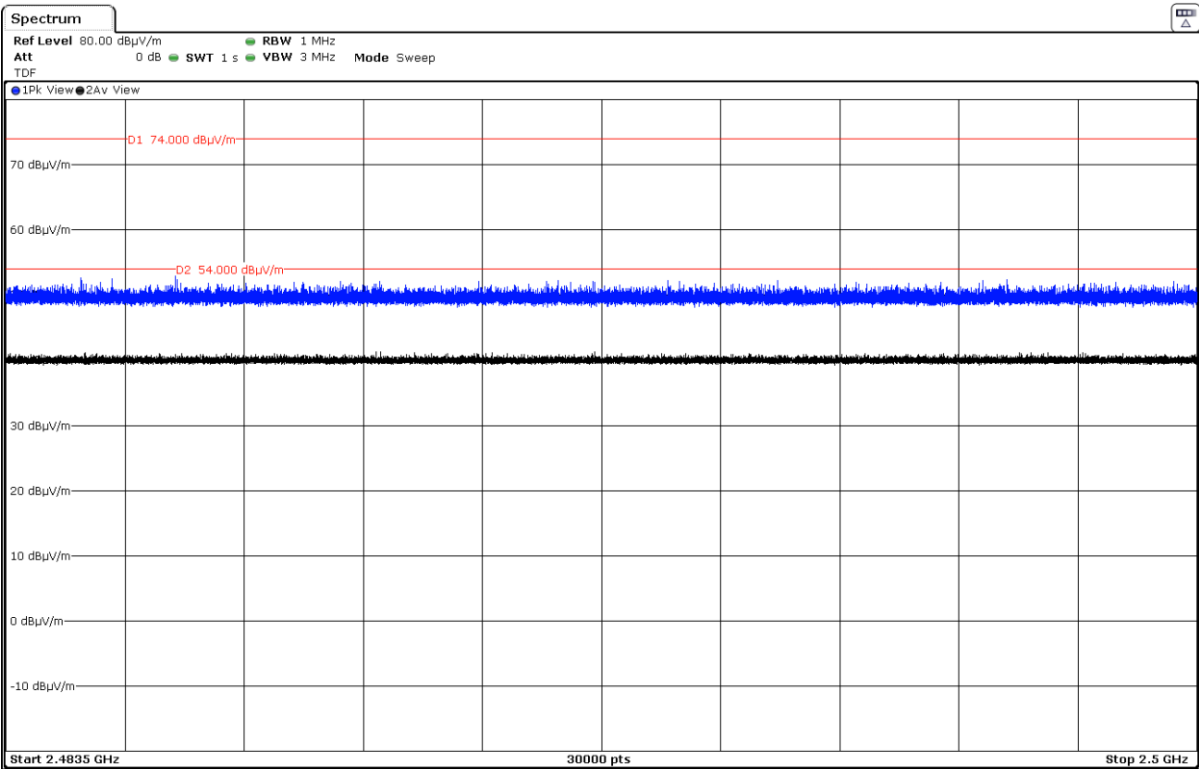


FREQUENCY RANGE 2.4835-2.5 GHz:

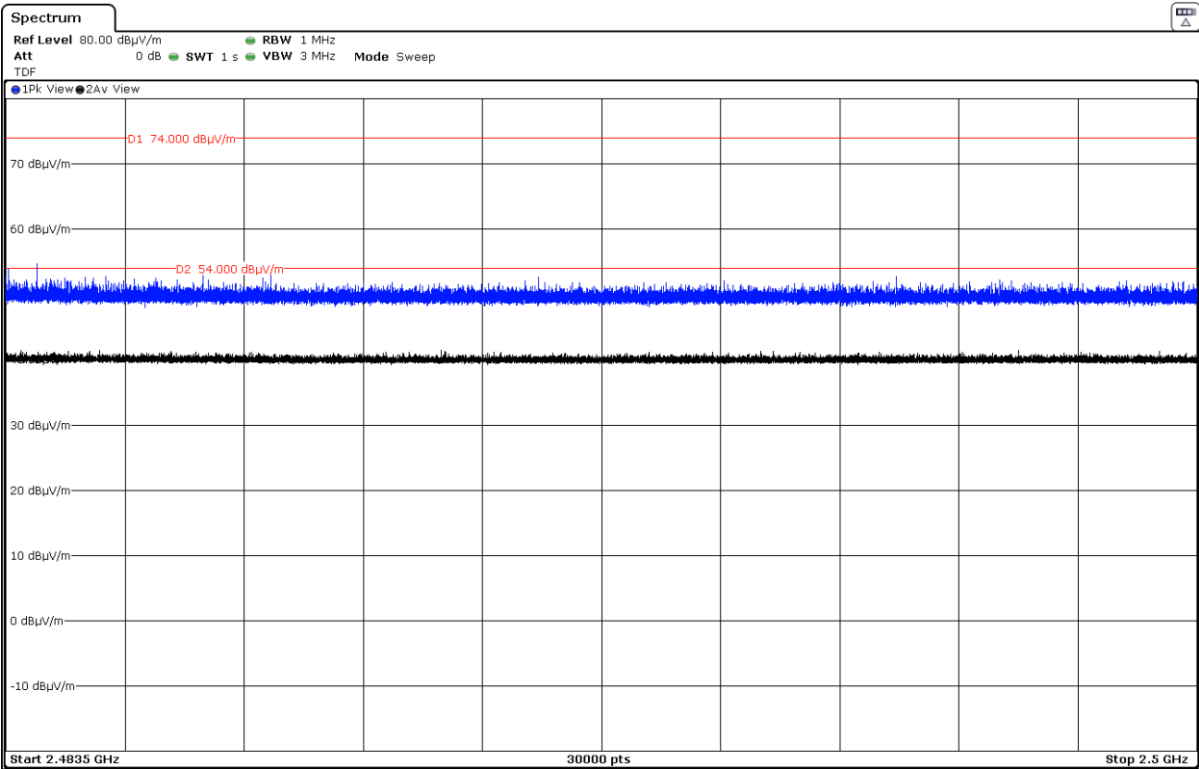
- CH 6:



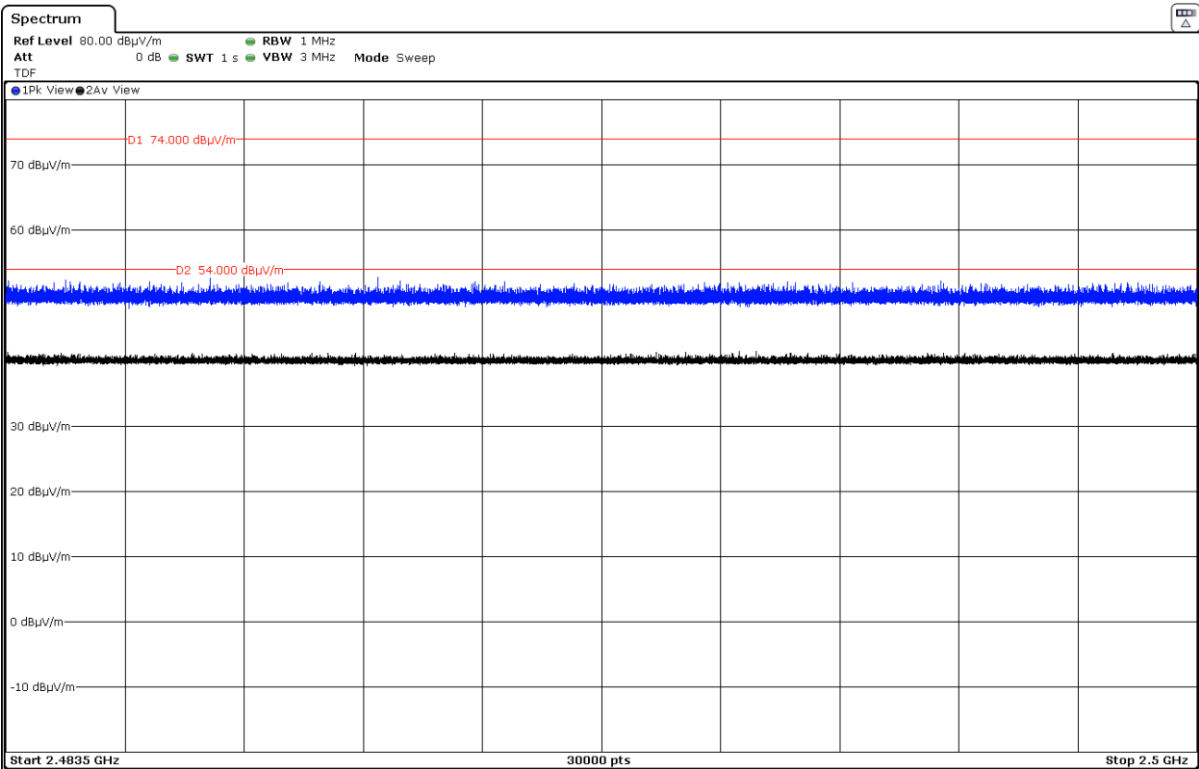
- CH 7:



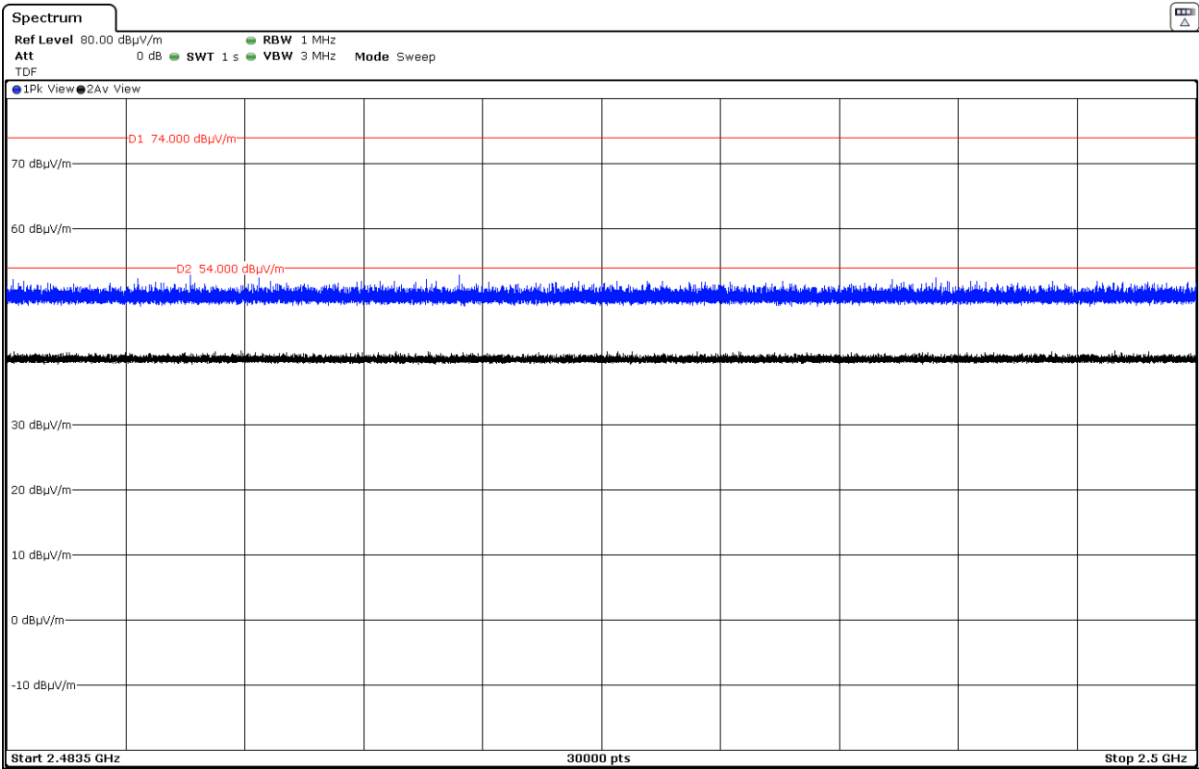
- CH 8:



- CH 9:



- CH 10:



- High Channel. CH 11:

