



Test report No:
NIE: 59563RRF.003A1

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	Communication system module for Personal Protections Equipment (PPE) including BT, Proprietary wireless intercom communications and Level Dependent protection.
Trademark	Pro1
Model and /or type reference	Pro1
Other identification of the product	HW version: 1.0. SW version: 1.0. FCC ID:Q95ER24 IC: 4668A-ER24
Features	BT 4.2 and 2.4GHz Proprietary wireless intercom.
Applicant	CARDO SYSTEMS LTD 811 E. Plano Parkway, suite 110A. Plano TX. 75074, USA
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. USA FCC Part 15.209 10-1-18 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). 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: - Transmitter out of band radiated emissions with simultaneous transmissions.
Approved by (name / position & signature)	A. Llamas RF Lab. Manager  Firmado digitalmente por ALEJANDRO LLAMAS RODRIGUEZ Fecha: 2019.07.12 13:56:45 +02'00'

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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 S.A.U. is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number: ISED 4621A-4.

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

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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.
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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 sample consists of a PCB based module that can be integrated into Personal Protections Equipment (PPE). The module got 2 radios – BT 4.2 Radio and 2.4GHz Proprietary wireless intercom communications radio. Module can also support aux Audio input of 2 way radio. Module can also support Level Dependent electronics supporting EN352-4. BT RF power is up to 8dBm. 2.4GHz Proprietary wireless intercom communications radio is up to 20dBm. Module support connector to External 2.4GHz antenna.

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°	Reception
59563B/008	Test Board	--	--	2019/01/21
59563B/009	Antenna	--	--	2019/01/21
59563B/016	Li-ion Battery	--	--	2019/01/21
59563B/004	Communication system Module	Pro1	--	2019/01/21
59563B/011	USB Cable	--	--	2019/01/21

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⁾		
			☐	☐	☐		
			☐	☐	☐		
			☐	☐	☐		
			☐	☐	☐		
			☐	☐	☐		
			☐	☐	☐		
Supplementary information to the ports..... :							
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 2.4V to 4.2V 1Amp					
☐	DC:						
Rated Power	1W						
Clock frequencies	26MHz, 12MHz, 16MHz, 8MHz, 40MHz, 32KHz						
Other parameters..... :							
Software version	1.0						
Hardware version..... :	1.0						
Dimensions in cm (W x H x D)..... :	45x50mm						
Mounting position..... :	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other: PCB module inside Earmuff or Hand Held equipment					

Modules/parts:	Module/parts of test item	Type	Manufacturer
	Pro1 PCB	PCB	Cardo
Accessories (not part of the test item):	Description	Type	Manufacturer
	EVb PCB	PCB	Cardo
	Power PCB	PCB	Cardo
Documents as provided by the applicant.....:	Description	File name	Issue date

Identification of the client

CARDO SYSTEMS LTD
 811 E. Plano Parkway, suite 110A. Plano TX. 75074, USA

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-05-16
Date (finish)	2019-05-16

Document history

Report number	Date	Description
59563RRF.003	2019-06-20	First release
59563RRF.003A1	2019-07-10	The antenna gain for Bluetooth EDR and Bluetooth Low Energy is updated to new value. The new value is 2dBi and not -2dBi.

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 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Francisco José Alcaide, José Manuel Jiménez González, Verónica García Capilla and Ignacio Cabra.

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.	Biconical/Log Antenna 30MHz - 6GHz ETS LINDGREN 3142E	2017/09	2020/09
4.	RF Pre-amplifier 40 dB, 10 MHz - 6 GHz BONN ELEKTRONIK BLNA 0160-01N	2019/02	2020/08
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.	Broadband Horn antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2018/01	2021/01
8.	RF Pre-amplifier, G>48dB, 18-40GHz NARDA JS44-18004000-33-8P	2018/02	2020/02
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

FCC PART 15 PARAGRAPH / RSS-247			
Requirement – Test case		Verdict	Remark
Section 15.247 Subclause (a) (1) / RSS-247 5.1. (b)	20 dB Bandwidth and Carrier frequency separation	N/M	
Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d)	Number of hopping channels	N/M	
Section 15.247 Subclause (a)(1)(iii) / RSS-247 Clause 5.1 (d)	Time of occupancy (Dwell Time)	N/M	
Section 15.247 Subclause (b) / RSS-247 5.4. (b)	Maximum peak output power and antenna gain	N/M	
Section 15.247 Subclause (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	N/M	
Section 15.247 Subclause (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	(1)
<u>Supplementary information and remarks:</u>			
(1) Co-Location tests Bluetooth EDR with Proprietary Protocol INTERCOM and Bluetooth Low Energy with Proprietary Protocol INTERCOM.			

Appendix A: Test results.

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TEST CONDITIONS

POWER SUPPLY (V):

V nominal:	3.7 Vdc
Type of Power Supply:	Battery Li Ion.

ANTENNA:

Bluetooth EDR and Bluetooth Low Energy:

Type of Antenna:	Internal (Integral).
Maximum Declared Antenna Gain:	+2 dBi

INTERCOM:

Type of Antenna:	External (SMA).
Maximum Declared Antenna Gain:	1 dBi

TEST FREQUENCIES:

Bluetooth EDR:

Lowest Channel:	2402 MHz
Highest Channel:	2480 MHz

INTERCOM:

Lowest Channel:	2405 MHz
Highest Channel:	2470 MHz

Bluetooth LE:

Lowest Channel:	2402 MHz
Highest Channel:	2480 MHz

The EUT was tested in the following operating mode:

- Continuous transmission with a modulated carrier at maximum power in all required channels selecting the supported data rates/modulations types.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

Transmission modes selected with each radio:

* Bluetooth Basic Rate: Transmitter radiated spurious emissions tests were performed with the EUT transmitting in Basic Rate mode (GFSK) because its power is higher than EDR mode.

* Bluetooth LE: Transmitter radiated spurious emissions tests were performed with the EUT transmitting in LE1M.

* INTERCOM: Transmitter radiated spurious emissions tests were performed with the EUT transmitting.

Simultaneous transmission modes selected:

The following configuration was selected based on preliminary testing that identified those corresponding to the worst case:

- * Co-Location of Bluetooth Basic Rate (GFSK) and Proprietary protocol 2.4 GHz INTERCOM, with the EUT configured to simultaneously transmit two signals at maximum output power: Bluetooth basic rate and Proprietary protocol 2.4 GHz INTERCOM.
- * Co-Location of Bluetooth Low Energy and Proprietary protocol 2.4 GHz INTERCOM, with the EUT configured to simultaneously transmit two signals at maximum output power: Bluetooth Low Energy and Proprietary protocol 2.4 GHz INTERCOM.

RADIATED MEASUREMENTS:

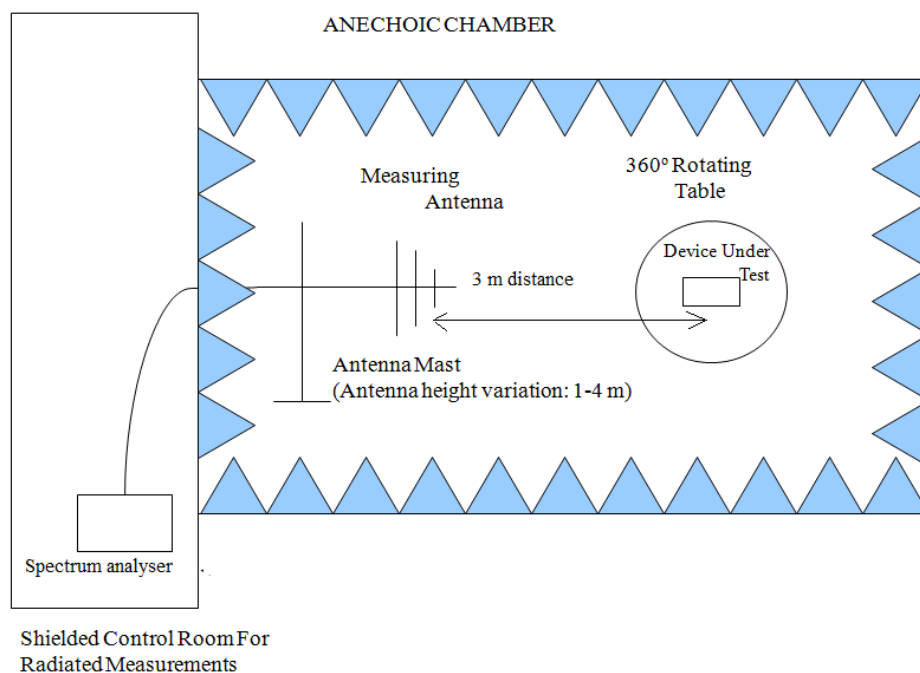
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz) is situated at a distance of 3 m and at a distance of 1m for the frequency range 1 GHz-26 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-26 GHz horn antenna).

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.

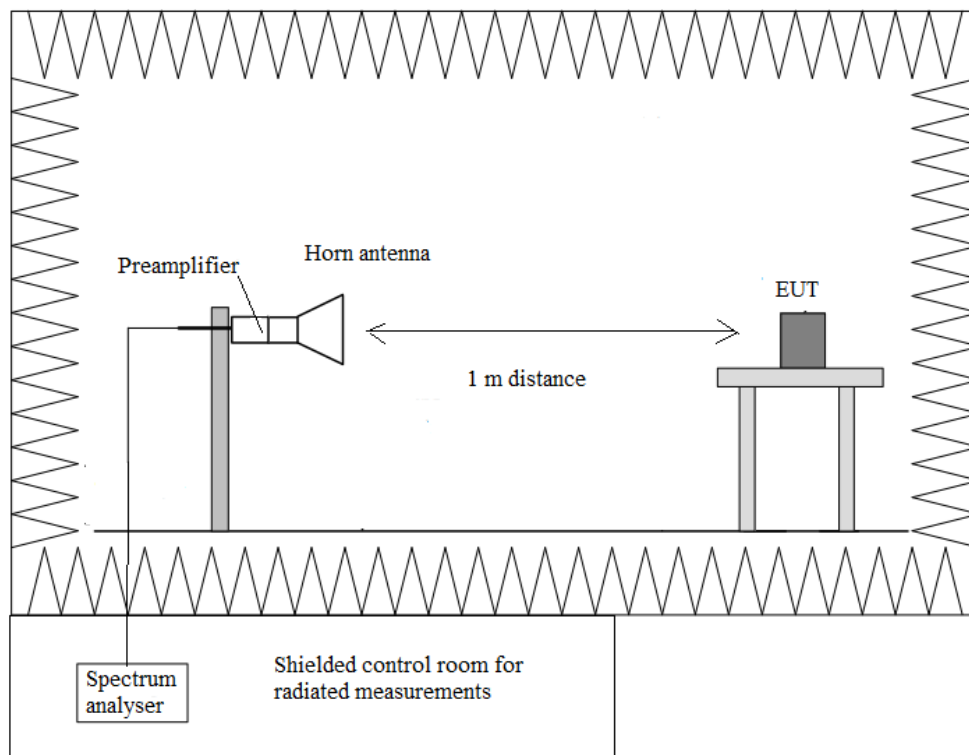
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find 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 §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/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 - 25000	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.

Test performed on the following worst cases in all relevant tests channels:

- Bluetooth EDR Channel Low (2402 MHz) GFSK + INTERCOM Channel High (2470MHz)
- INTERCOM Channel Low (2405 MHz) + Bluetooth EDR Channel High (2480MHz) GFSK
- Bluetooth Low Energy Channel Low (2402 MHz) + INTERCOM Channel High (2470MHz)
- INTERCOM Channel Low (2405 MHz) + Bluetooth Low Energy Channel High (2480MHz)

• **Bluetooth EDR Channel Low (2402 MHz) GFSK + INTERCOM Channel High (2470MHz)**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend neither on the operating channel nor the modulation.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
200.057	H	Quasi peak	37.8	< $\pm$ 2.07
320.014	H	Quasi peak	36.3	< $\pm$ 2.07
360.006	V	Quasi peak	33.9	< $\pm$ 2.07
400.009	V	Quasi peak	40.9	< $\pm$ 2.07
480.021	V	Quasi peak	37.4	< $\pm$ 2.07
500.035	V	Quasi peak	40.6	< $\pm$ 2.07
519.984	V	Quasi peak	38.9	< $\pm$ 2.07
560.024	V	Quasi peak	44.8	< $\pm$ 2.07
600.053	V	Quasi peak	44.2	< $\pm$ 2.07
640.017	H	Quasi peak	42.2	< $\pm$ 2.07
800.035	H	Quasi peak	38.7	< $\pm$ 2.07
840.031	H	Quasi peak	39.1	< $\pm$ 2.07
920.024	V	Quasi peak	37.9	< $\pm$ 2.07

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range.

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.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
2.3344	V	Peak	51.57	< $\pm$ 3.04
2.6020	H	Peak	52.05	< $\pm$ 3.04
7.4090	V	Peak	41.55	< $\pm$ 4.88
9.8817	V	Peak	50.99	< $\pm$ 4.88
22.2342	V	Peak	42.62	< $\pm$ 4.88

Verdict: PASS

• **INTERCOM Channel Low (2405 MHz) + Bluetooth EDR Channel High (2480MHz) GFSK**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend neither on the operating channel nor the modulation.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
200.057	V	Quasi peak	24.7	< $\pm$ 2.07
360.010	V	Quasi peak	31.9	< $\pm$ 2.07
400.007	V	Quasi peak	40.1	< $\pm$ 2.07
479.999	V	Quasi peak	36.3	< $\pm$ 2.07
500.014	V	Quasi peak	40.4	< $\pm$ 2.07
519.996	V	Quasi peak	39.8	< $\pm$ 2.07
560.024	V	Quasi peak	41.1	< $\pm$ 2.07
600.021	V	Quasi peak	42.2	< $\pm$ 2.07
640.017	V	Quasi peak	35	< $\pm$ 2.07
700.157	V	Quasi peak	30.6	< $\pm$ 2.07
800.035	V	Quasi peak	32.1	< $\pm$ 2.07
840.031	V	Quasi peak	35.2	< $\pm$ 2.07
880.06	V	Quasi peak	31	< $\pm$ 2.07
919.991	V	Quasi peak	38.4	< $\pm$ 2.07

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range.

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.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB μ V/m)	Measurement Uncertainty (dB)
2.6798	V	Peak	50.84	< $\pm$ 3.04
4.9602	V	Peak	39.26	< $\pm$ 4.88
9.6217	H	Peak	45.44	< $\pm$ 4.88

Verdict: PASS

- Bluetooth Low Energy Channel Low (2402 MHz) + INTERCOM Channel High (2470MHz)**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend neither on the operating channel nor the modulation.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
200.025	V	Quasi peak	31.5	<± 2.07
320.014	V	Quasi peak	31.5	<± 2.07
400.007	V	Quasi peak	40.2	<± 2.07
560.024	V	Quasi peak	43.7	<± 2.07
600.021	V	Quasi peak	44.8	<± 2.07
800.067	V	Quasi peak	34.3	<± 2.07
920.024	V	Quasi peak	38.5	<± 2.07

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range.

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.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
2.3343	H	Peak	52.2	<± 3.04
2.6020	H	Peak	52.17	<± 3.04
4.8039	H	Peak	46.8	<± 4.72
4.9411	V	Peak	50.67	<± 4.72
7.4084	H	Peak	48.47	<± 4.72
9.8780	H	Peak	55.92	<± 4.72
		Average	49	<± 4.72
17.2932	H	Peak	41.38	<± 4.72
19.7637	H	Peak	41.29	<± 4.72
22.2252	V	Peak	43.43	<± 4.72

Verdict: PASS

• **INTERCOM Channel Low (2405 MHz) + Bluetooth Low Energy Channel High (2480MHz)**

Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend neither on the operating channel nor the modulation.

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
200.057	H	Quasi peak	37.8	<± 2.07
320.014	H	Quasi peak	37.5	<± 2.07
400.007	V	Quasi peak	42.1	<± 2.07
559.992	V	Quasi peak	43.5	<± 2.07
599.988	V	Quasi peak	44.3	<± 2.07
640.017	H	Quasi peak	37.9	<± 2.07
800.035	V	Quasi peak	34.9	<± 2.07
839.999	H	Quasi peak	40.1	<± 2.07

Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range.

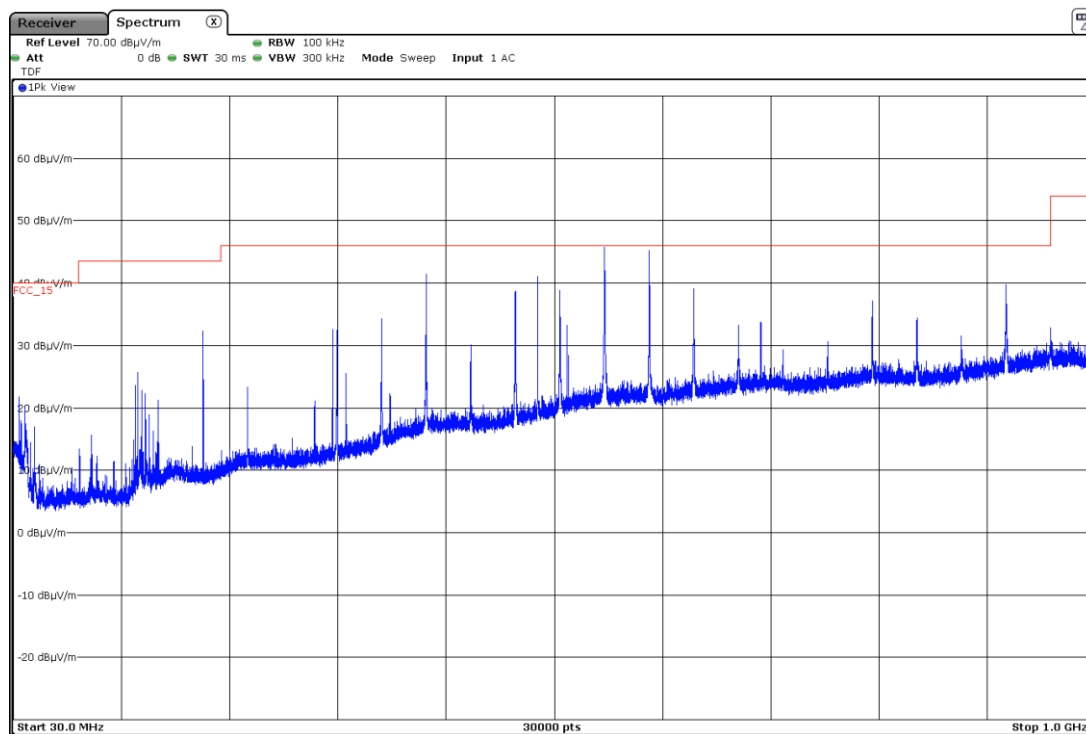
Spurious signals with peak levels above the average limit (54 dBμV/m at 3 m) are measured with average detector for checking compliance with the average limit.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
2.6801	V	Peak	50.99	<± 3.04
4.9602	V	Peak	38.81	<± 4.72
9.6181	H	Peak	45.98	<± 4.72

Verdict: PASS

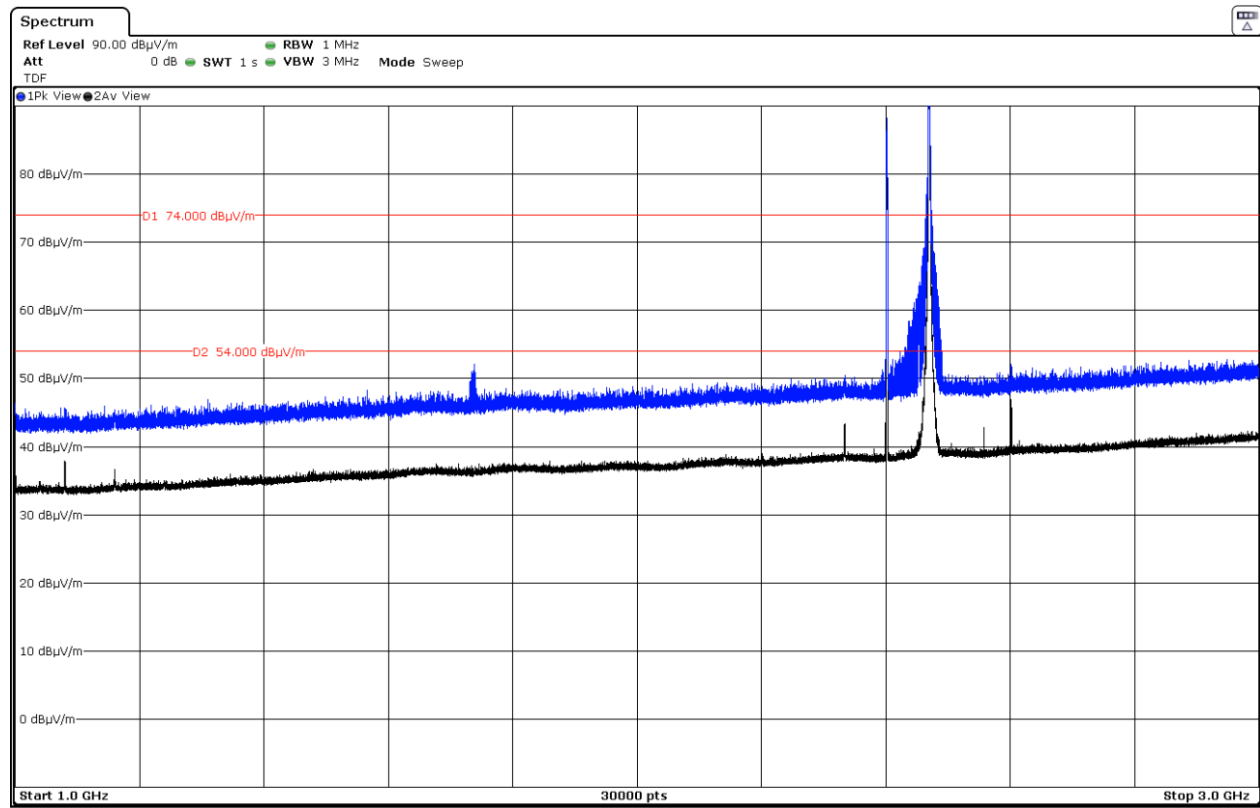
- **Bluetooth Basic Rate Channel Low (2402 MHz) + INTERCOM Channel High (2470MHz)**

FREQUENCY RANGE 30 MHz - 1 GHz:



FREQUENCY RANGE 1 - 3 GHz:

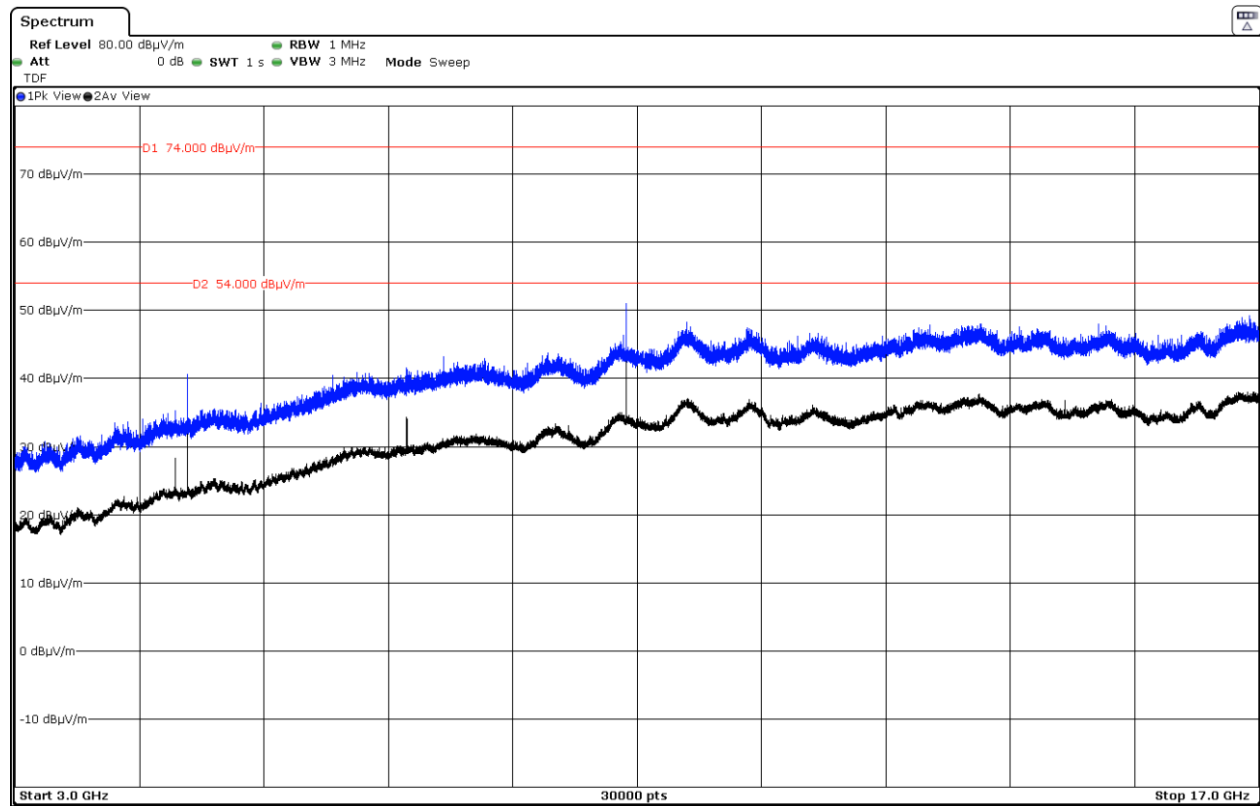
- GFSK



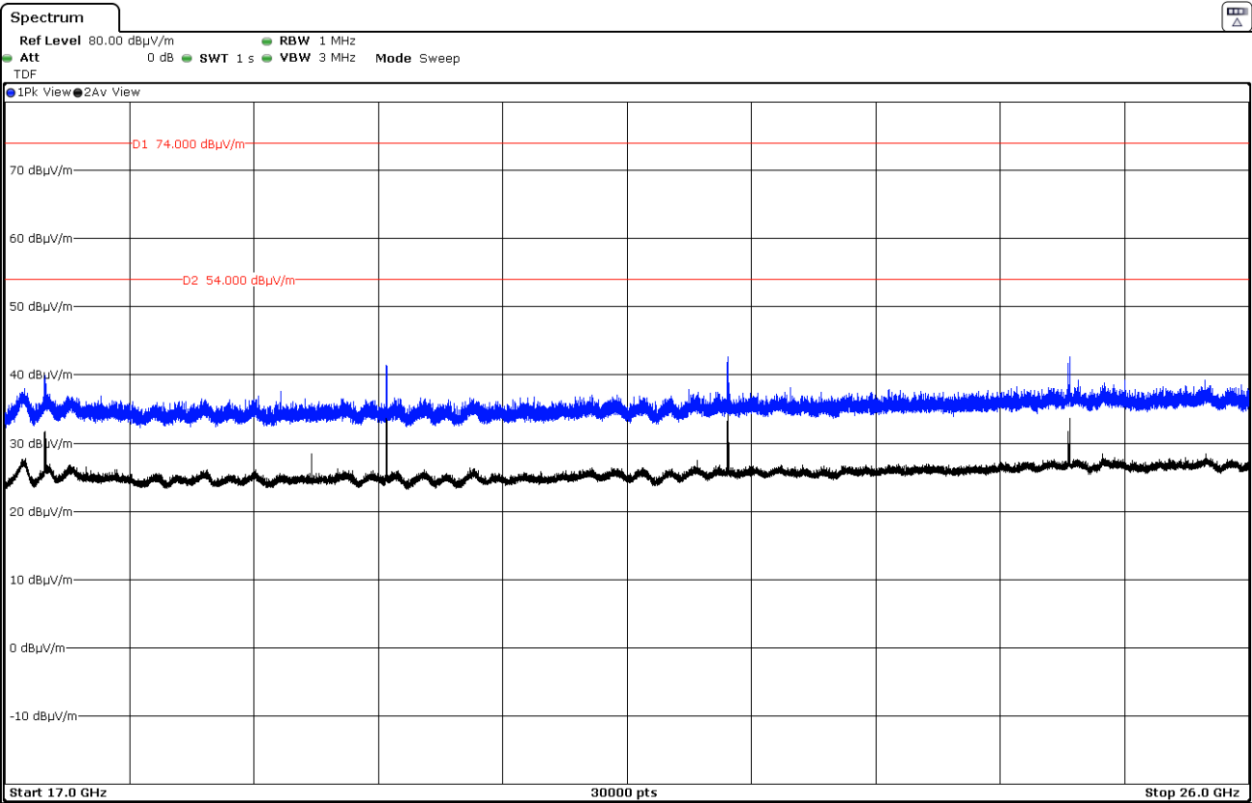
Note: The peaks shown in the plot above the limit are the carrier frequencies of Bluetooth Basic Rate and INTERCOM.

FREQUENCY RANGE 3 - 17 GHz:

- GFSK

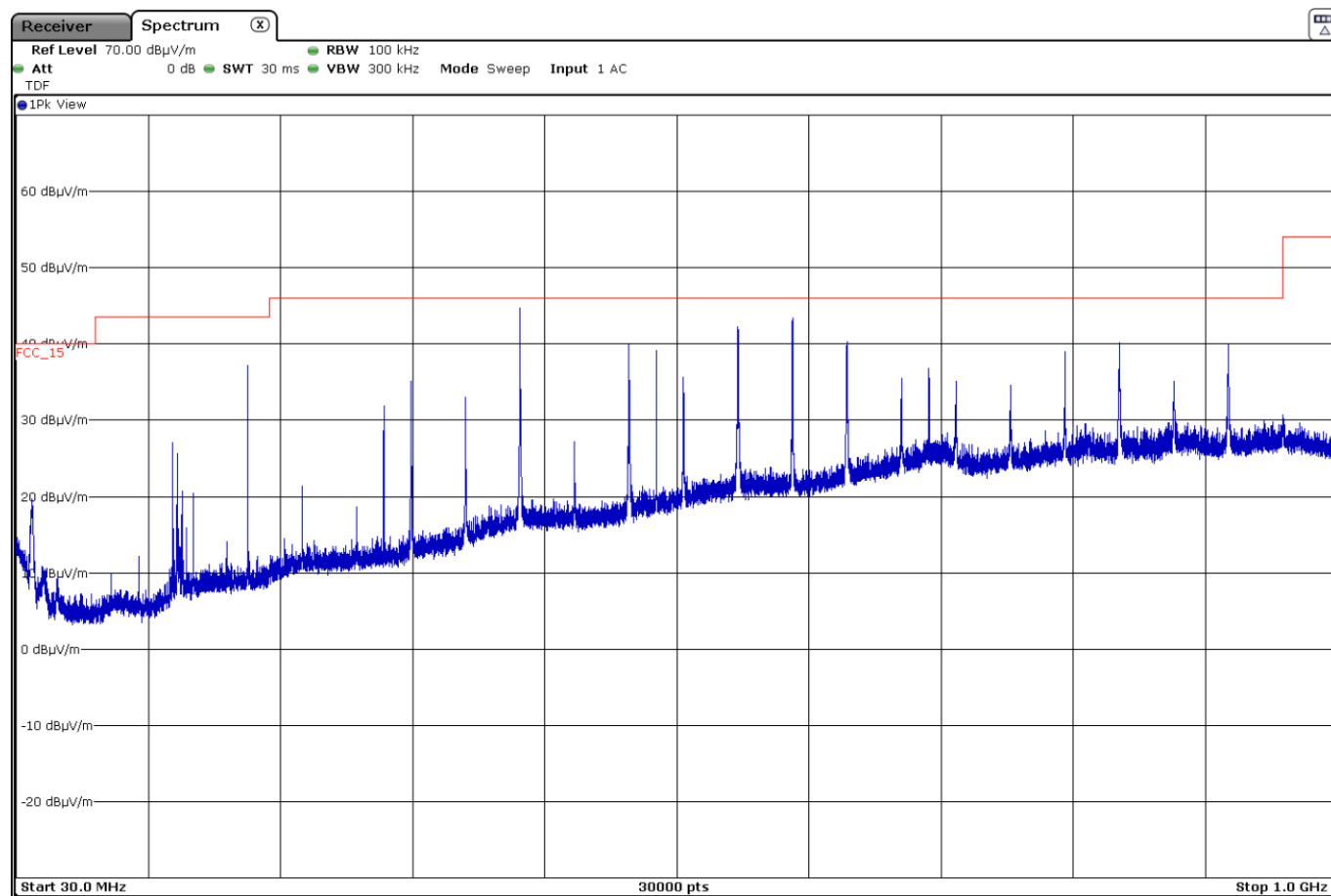


FREQUENCY RANGE 17 - 26 GHz:

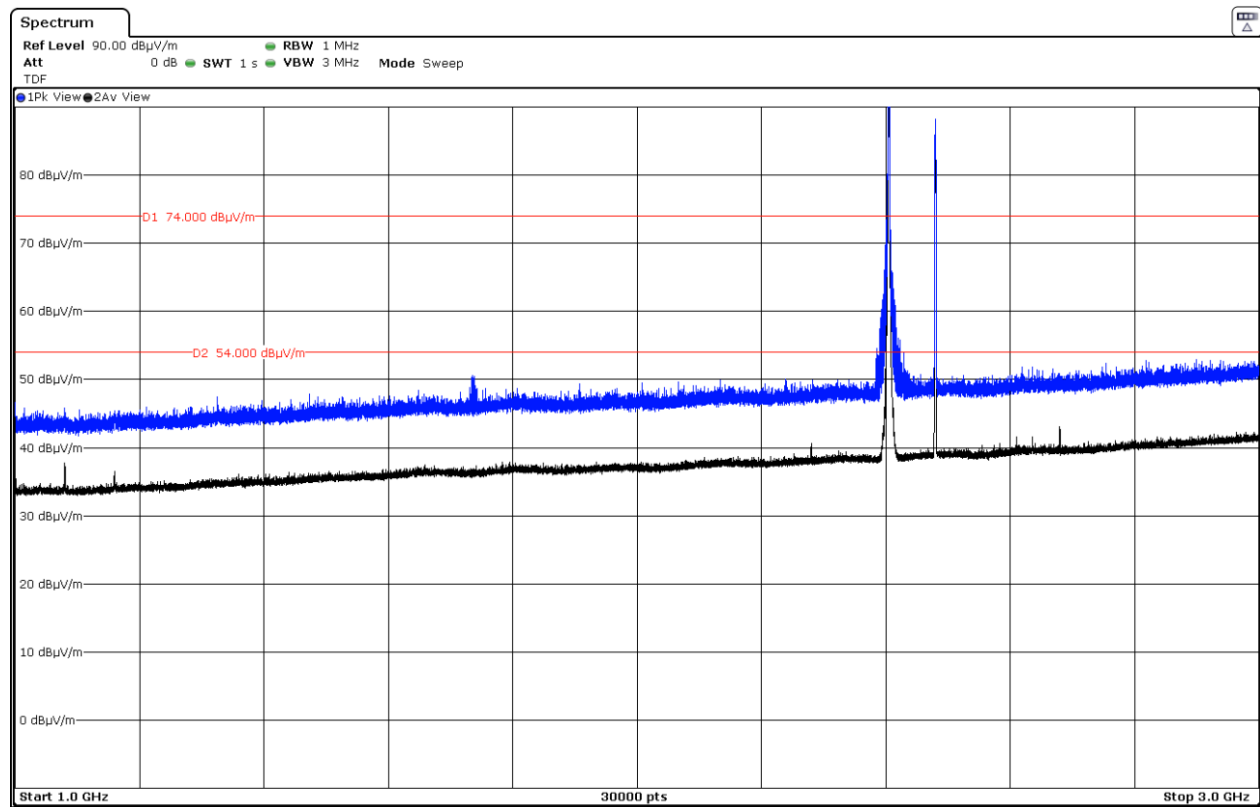


- **INTERCOM Channel Low (2405 MHz) + Bluetooth Basic Rate Channel High (2480MHz)**

FREQUENCY RANGE 30 MHz - 1 GHz:

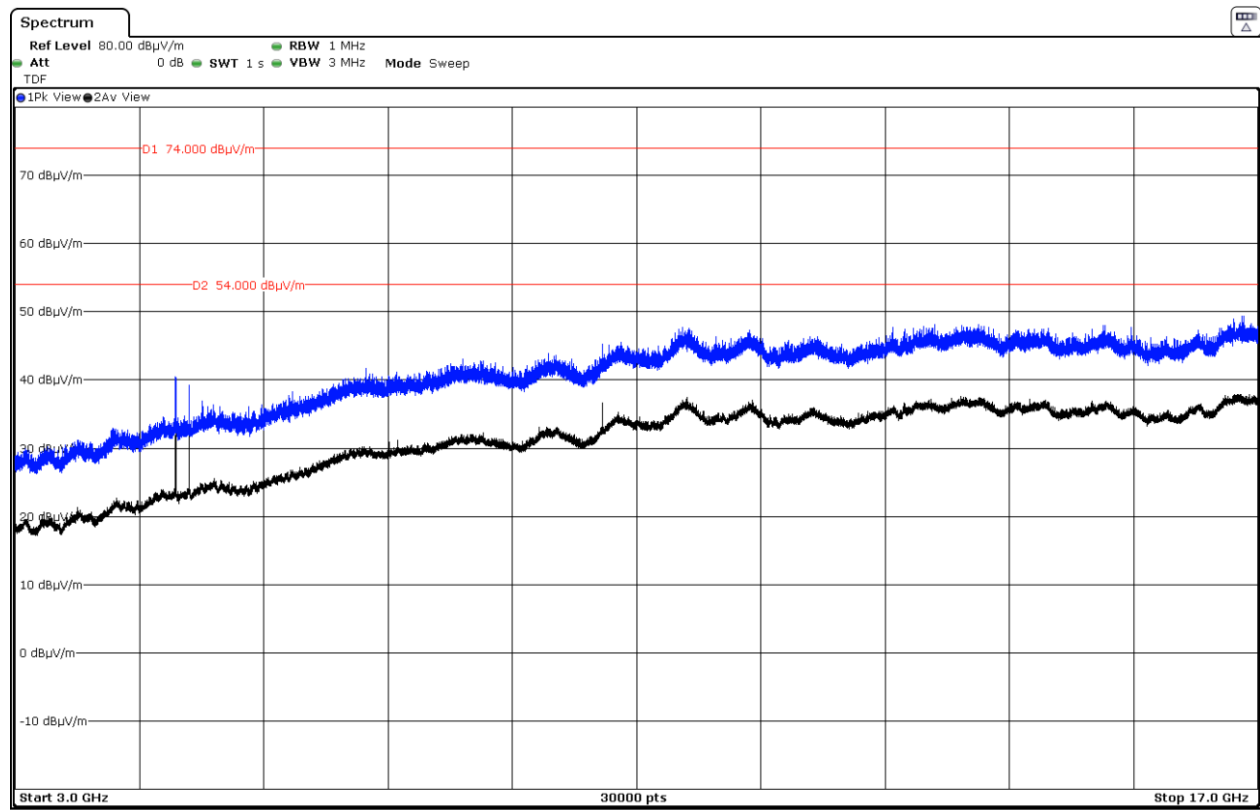


FREQUENCY RANGE 1 - 3 GHz:

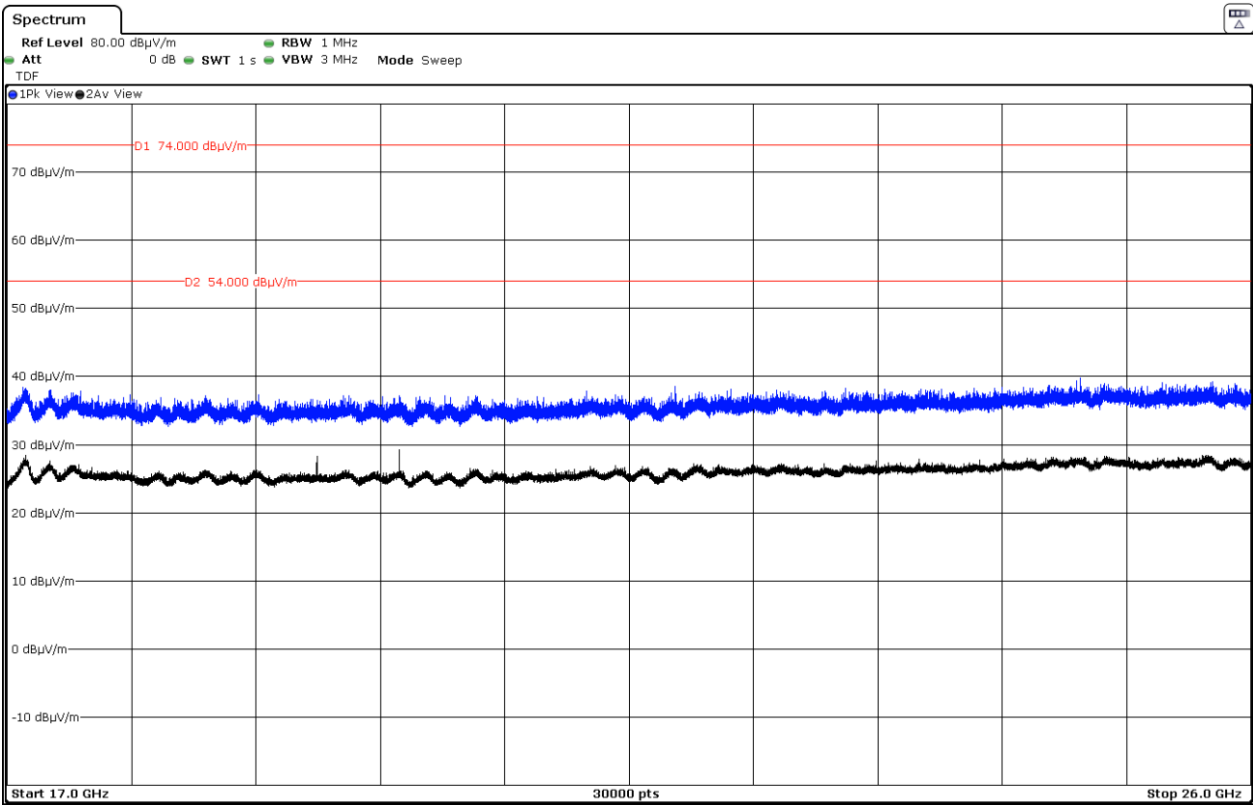


Note: The peaks shown in the plot above the limit are the carrier frequencies of Bluetooth Basic Rate and INTERCOM.

FREQUENCY RANGE 3 - 17 GHz:

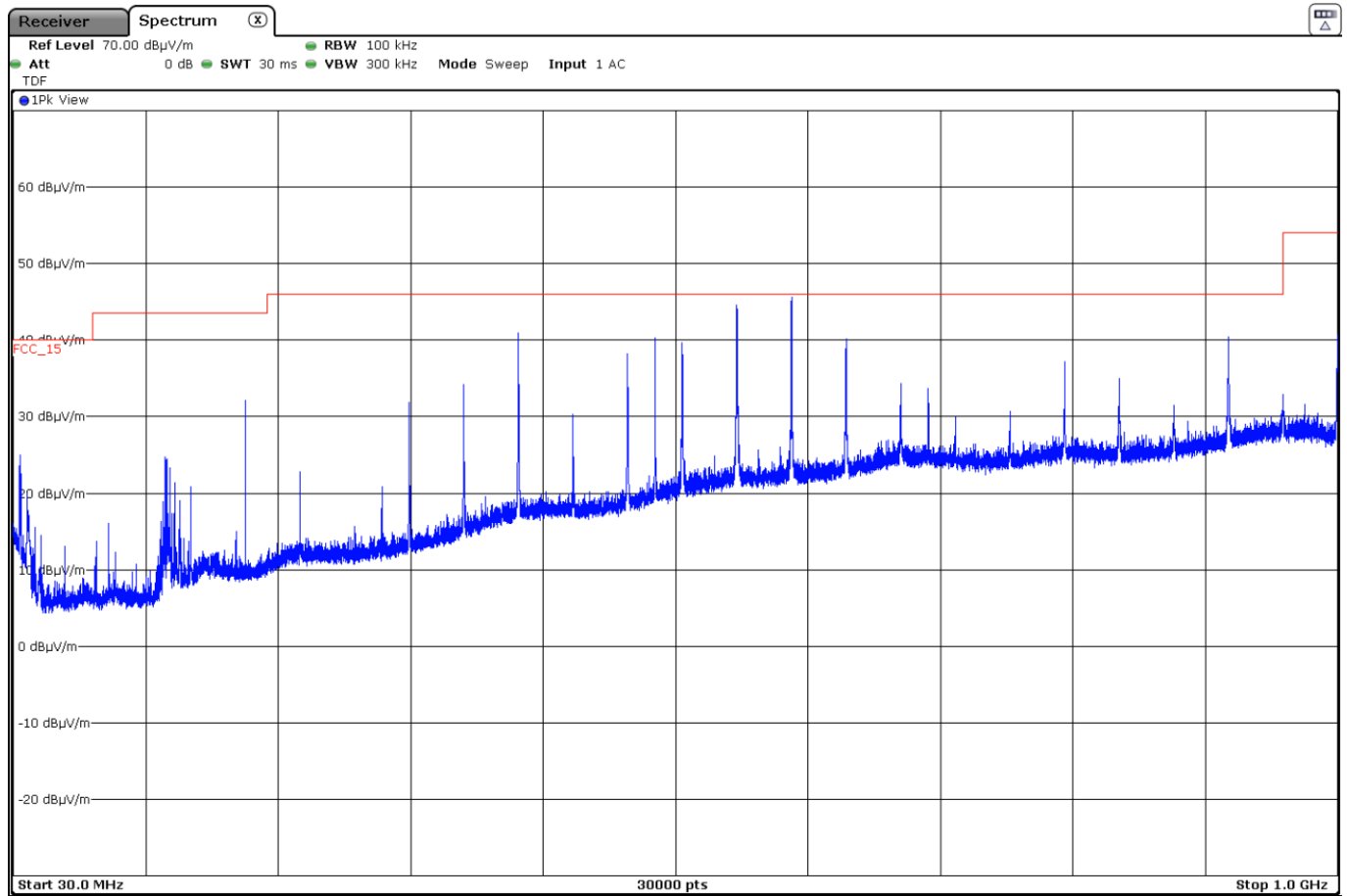


FREQUENCY RANGE 17 - 26 GHz:

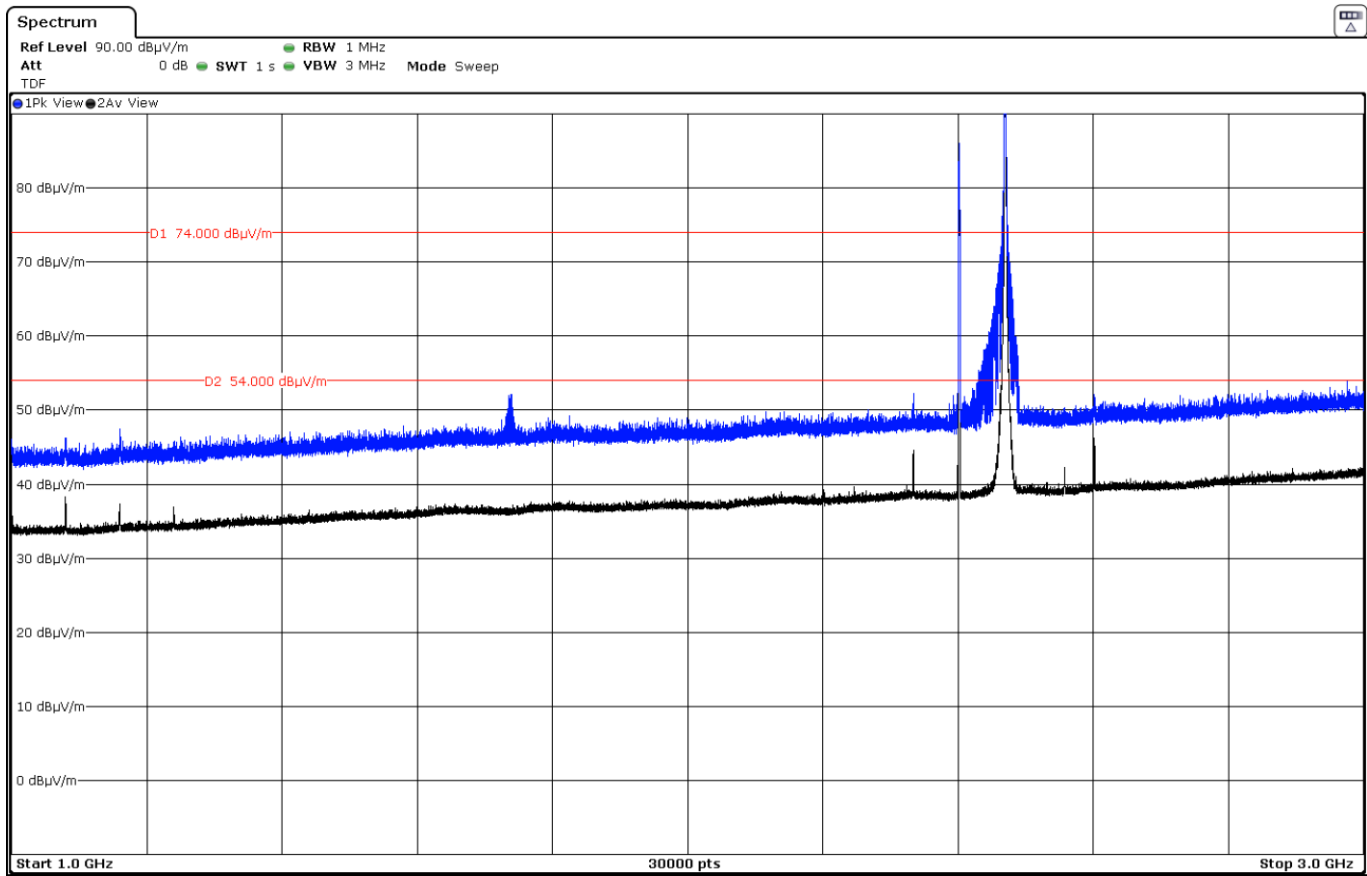


- **Bluetooth Low Energy Channel Low (2402 MHz) + INTERCOM Channel High (2470MHz)**

FREQUENCY RANGE 30 MHz - 1 GHz:

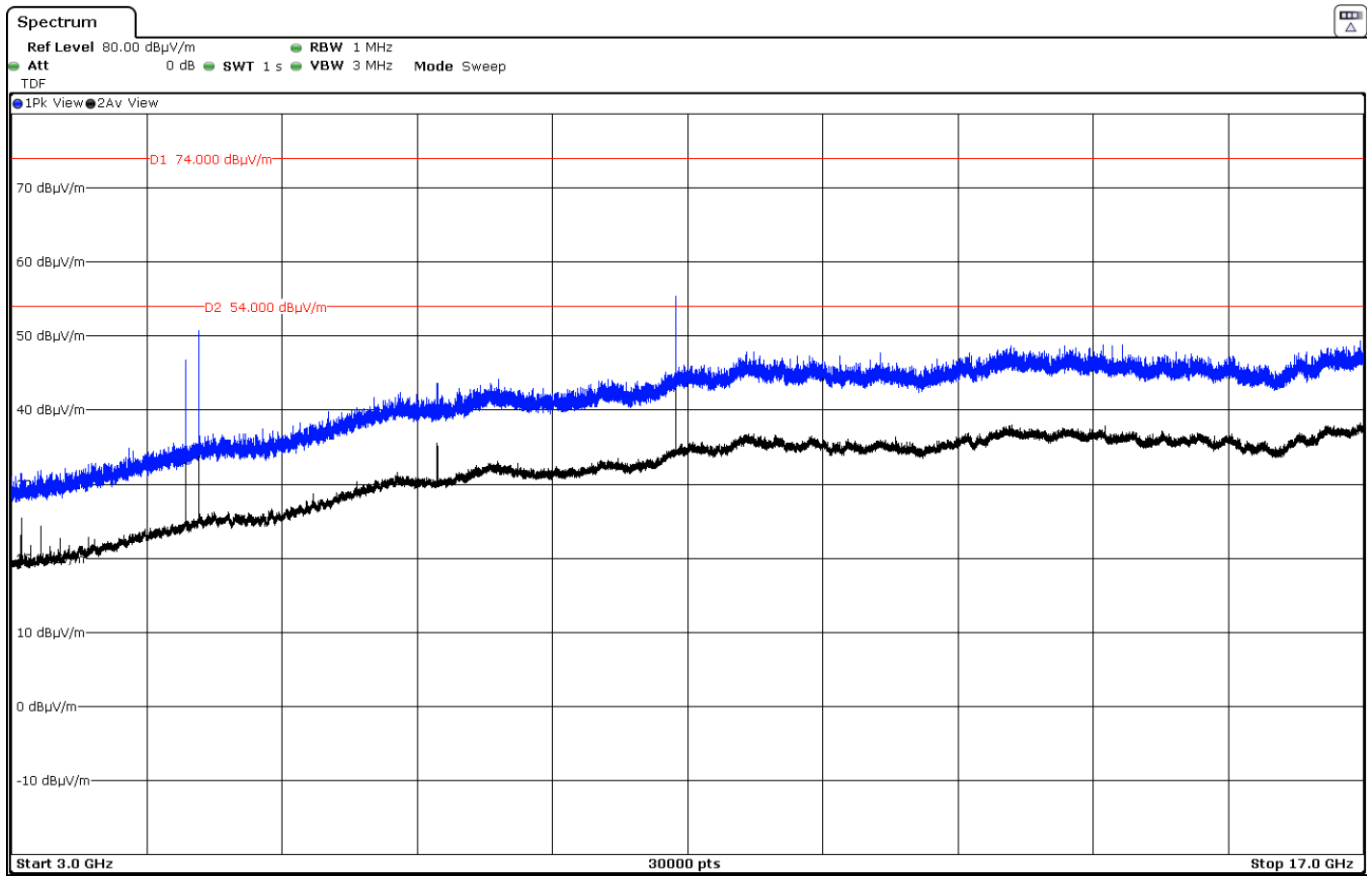


FREQUENCY RANGE 1 - 3 GHz:

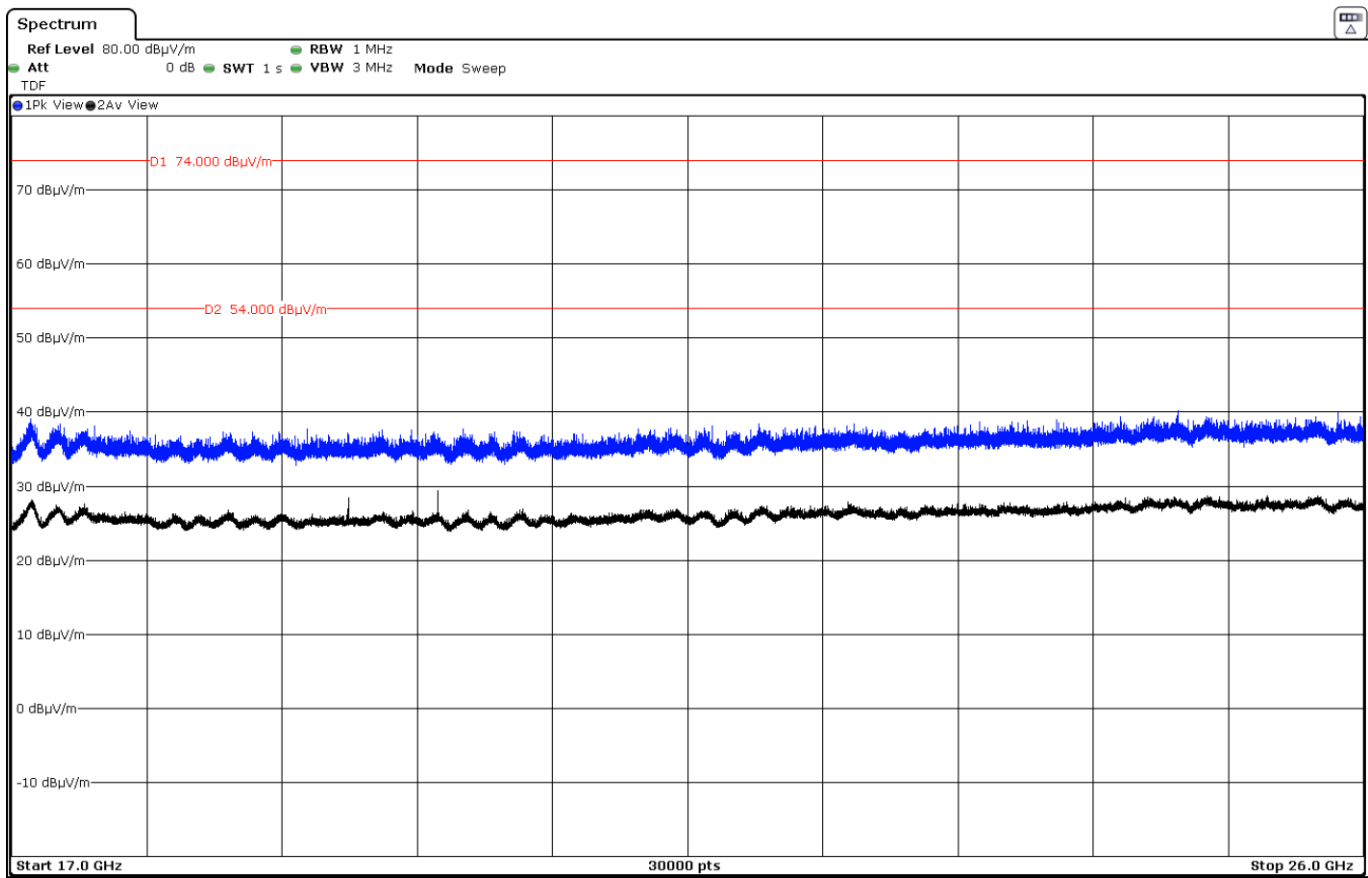


Note: The peaks shown in the plot above the limit are the carrier frequencies of Bluetooth Low Energy and INTERCOM.

FREQUENCY RANGE 3 - 17 GHz:

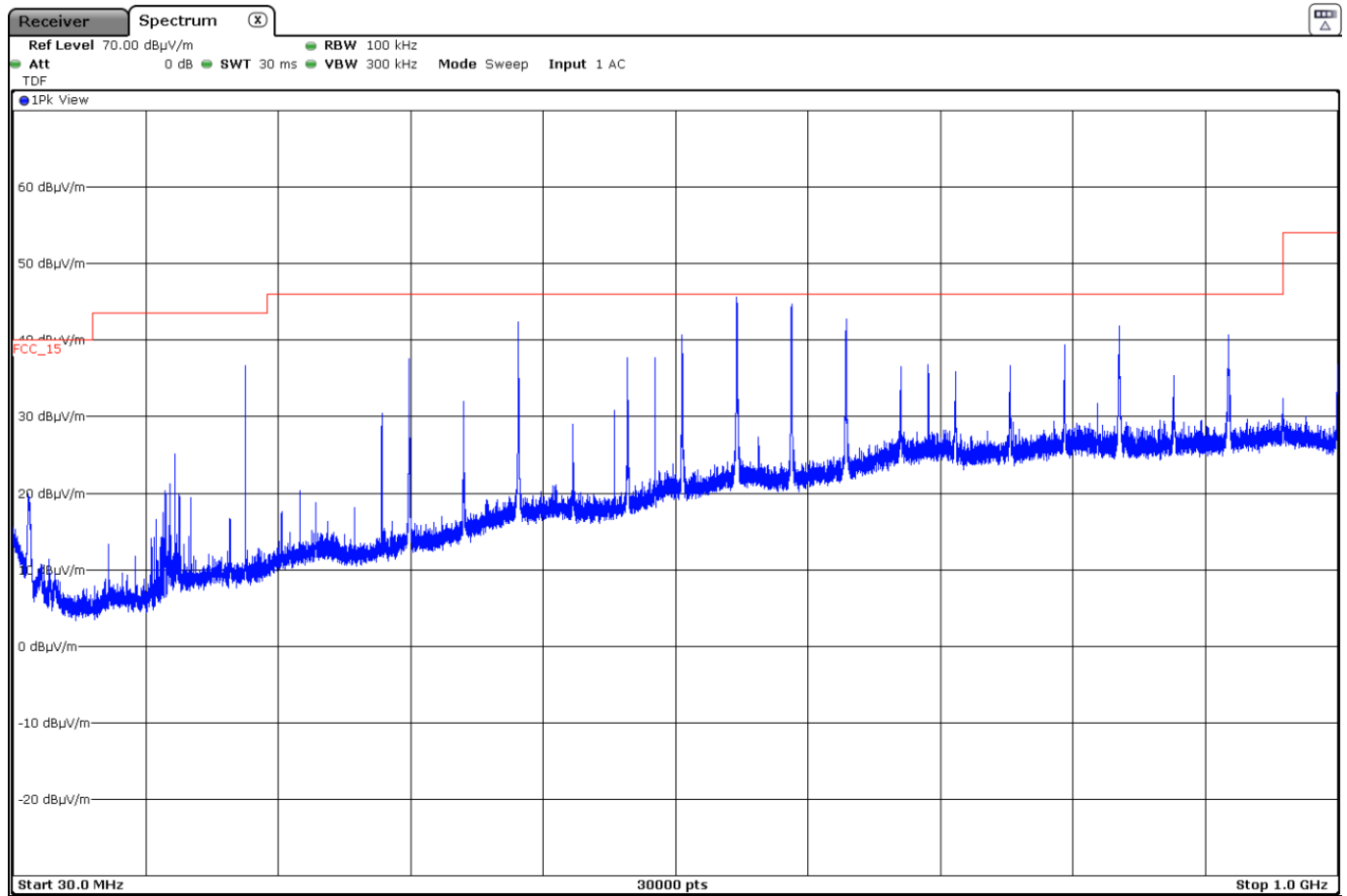


FREQUENCY RANGE 17 - 26 GHz:

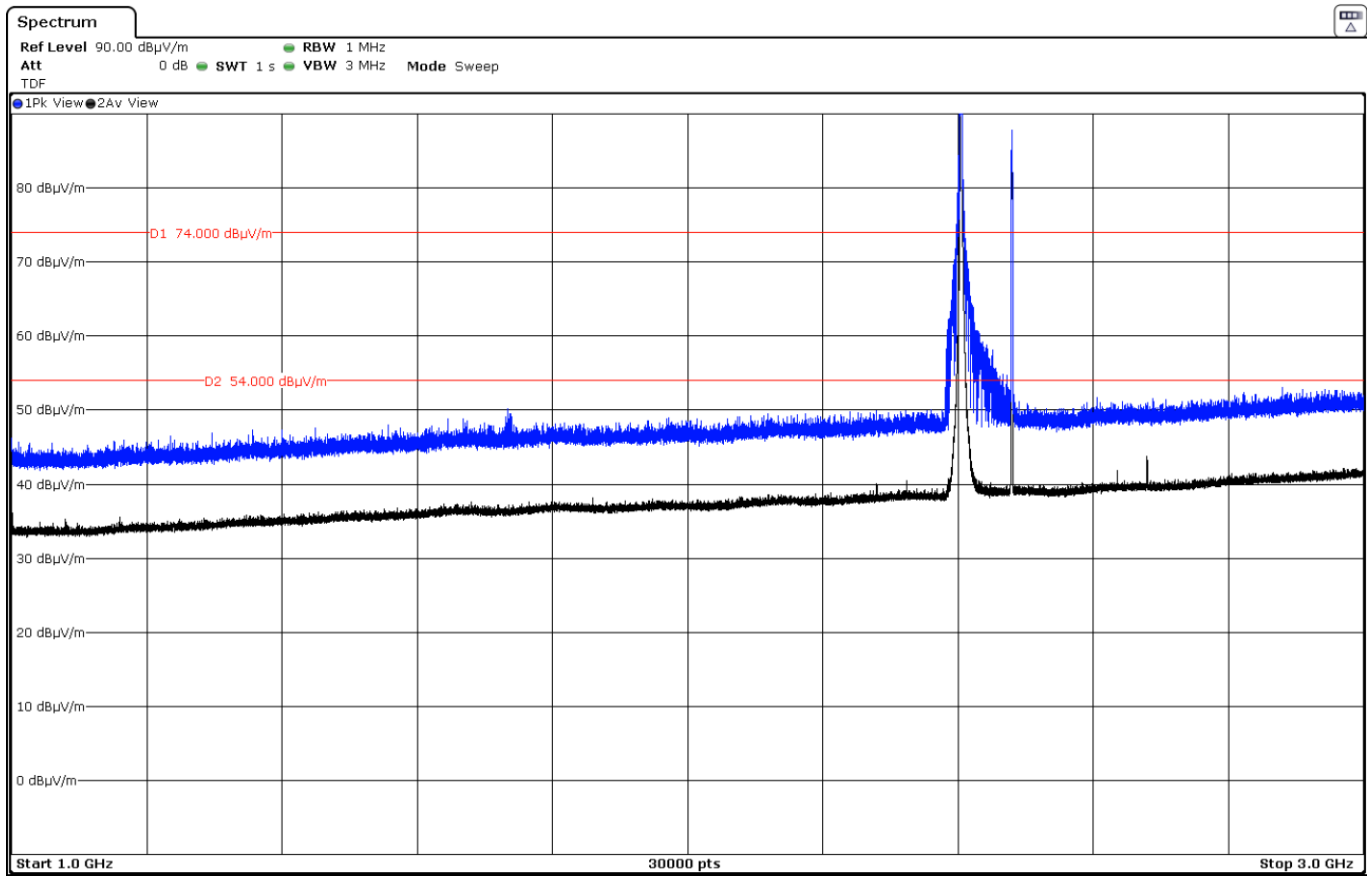


- INTERCOM Channel Low (2405 MHz) + Bluetooth Low Energy Channel High (2480MHz)**

FREQUENCY RANGE 30 MHz - 1 GHz:

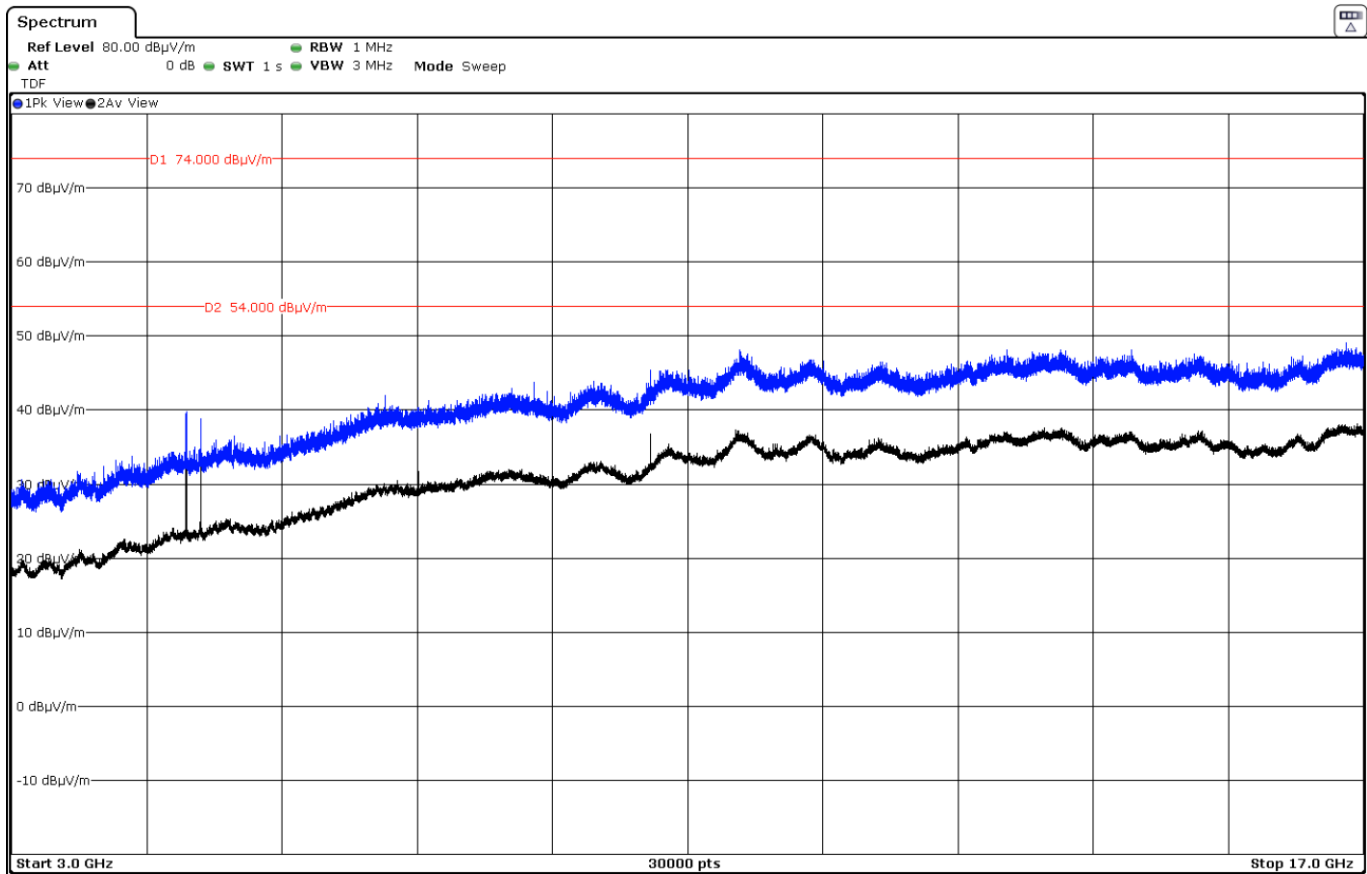


FREQUENCY RANGE 1 - 3 GHz:



Note: The peaks shown in the plot above the limit are the carrier frequencies of Bluetooth Low Energy and INTERCOM.

FREQUENCY RANGE 3 - 17 GHz:



FREQUENCY RANGE 17 - 26 GHz:

