RADIO REPORT

FCC 47 CFR Part 15E

Unlicensed National Information Infrastructure Devices in the 5 GHz Bands

Report Reference No	G0M-2302-1881-TFC407WF-W276-V03
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	DAkkS - Registration number : D-PL-12092-01-04 FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	u-blox AG
Address	Zürcherstrasse 68 8800 Thalwil Switzerland
Test Specification	47 CFR Part 15E
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	MAYA-W2 host-based multiradio modules
Model(s)	MAYA-W276-00B
Additional Model(s)	None
Brand Name(s)	u-blox
Hardware Version(s)	02
Software Version(s)	1.0.0.39.1-18.80.1.p154.38
FCC ID	XPYMAYAW2B
Test Result	**PASSED**

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 - 23 °C	
Test Lab Humidity	32 – 38 %	
Date of receipt of test item	2023-02-21	
Report:		
Compiled by	Radwan Jaafar	
Responsible for test (+ signature) (Senior Expert Engineer)	Radwan Jaafar	 .....
Approved by (+ signature) (Test Lab Engineer)	Wilfried Treffke	 .....
Date of Issue	2023-12-06	
Total number of pages	407	
General Remarks:		
The test results presented in this report relate only to the object tested. **The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.** This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		

ADDITIONAL VARIANTS

Additional Variants (not tested and not evaluated variants)		
Not-tested Variant	**Description**	
1	Product Type Description	Host-based multiradio module
	Model name	MAYA-W266-00B
	Brand name	u-blox
	Hardware Version	02
	Software Version	1.0.0.39.1-18.80.1.p154.38
	FCC ID	XPYMAYAW2B
	IC	8595A-MAYAW2B
	PMN	MAYA-W266-00B
	HVIN	MAYA-W266-00B
	FVIN	N/A
	HMN	N/A
Comment: Those named additional variants above have not been tested. Those additional variants of the series have been declared by the manufacturer. The test report explicitly states that those variants were neither tested nor assessed nor evaluated.		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2023-11-02	Initial Release	--
02	2023-11-30	Replaced document: G0M-2302-1881-TFC407WF-W276-V01 Replaced by: G0M-2302-1881-TFC407WF-W276-V02 Reason: Correction of the model name and FVIN of the EUT.	R. Jaafar
03	2023-12-06	Replaced document: G0M-2302-1881-TFC407WF-W276-V02 Replaced by: G0M-2302-1881-TFC407WF-W276-V03 Reason: - Correction of the module name in the plots. - Editorial correction to AC powerline conducted emissions at section 3.6.	R. Jaafar

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BPSK	Binary Phase Shift Keying
EIRP	Equivalent Isotropic Radiated Power
EUT	Equipment Under Test
FCC	Federal Communications Commission
HT	High Throughput
IEEE 802.11	MAC and PHY Layer for WiFi
OFDM	Orthogonal Frequency Division Multiplexing
QAM	Quadrature Amplitude Modulation
QPSK	Quadrature Phase Shift Keying
RBW	Resolution bandwidth
RMS	Root mean square
TPC	Transmit Power Control
VBW	Video bandwidth
VHT	Very High Throughput

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	MAYA-W2 host-based multiradio modules		
Model	MAYA-W276-00B		
Additional Model(s)	None		
Brand Name(s)	u-blox		
Sample Identification	EUT	Sample-ID	Serial Number
	Radiated with embedded antenna	44424	AW86C1DEB9615B80400
	conducted, and radiated with external antenna	43225	AW86C1DEB9598EC0300
Hardware Version(s)	02		
Software Version(s)	1.0.0.39.1-18.80.1.p154.38		
FCC-ID	XPYMAYAW2B		
Equipment type	Radio Module		
Device type	Access point, Client		
Radio type	Transceiver		
Assigned frequency bands	5150 - 5250 MHz 5250 - 5350 MHz 5470 - 5725 MHz 5725 - 5850 MHz		
Radio technology	IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11n (HT40) IEEE 802.11ac (VHT20) IEEE 802.11ac (VHT40) IEEE 802.11ac (VHT80)		
Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		
Number of antenna ports	1		
Transmit power control	Yes		
Antenna-1	Type	External	
	Model	ANT-DB1-RAF-SMA	
	Manufacturer	Linx Technologies	
	Gain	5.1 dBi (U-NII-1, U-NII-2A, U-NII-2C, U-NII-3) (customer declaration)	
Antenna-2	Type	Integrated	
	Model	custom	
	Manufacturer	ProAnt AB	
	Gain	-2.7 dBi (U-NII-1) (customer declaration) -2.0 dBi (U-NII-2A) -1.2 dBi (U-NII-2C) -3.8 dBi (U-NII-3)	
Supply Voltage (1st port)	V_{NOM}	3.3 VDC	
Supply Voltage (2nd port)	V_{NOM}	1.8 VDC	
Operating Temperature	T_{NOM}	20 °C	
AC/DC-Adaptor	Model	None	
Manufacturer	u-blox AG Zürcherstrasse 68 8800 Thalwil SWITZERLAND		

1.1 Photos – Equipment External

EUT top view
photos deleted - refer to separate exhibits

EUT bottom view
photos deleted - refer to separate exhibits

EUT overview - with embedded antenna
photos deleted - refer to separate exhibits

RF module with Embedded antenna
photos deleted - refer to separate exhibits

EUT overview - with external antenna
photos deleted - refer to separate exhibits

External antenna
photos deleted - refer to separate exhibits

Evaluation board top view
photos deleted - refer to separate exhibits

Evaluation board bottom view
photos deleted - refer to separate exhibits

Data cable
photos deleted - refer to separate exhibits

USB C cable
photos deleted - refer to separate exhibits

Evaluation board side view
photos deleted - refer to separate exhibits

SPI Cable
photos deleted - refer to separate exhibits

Power adapter
photos deleted - refer to separate exhibits

Cable to connect EUT to external power supply
photos deleted - refer to separate exhibits

1.2 Photos – Equipment Internal

RF Module-MW276 (length)
photos deleted - refer to separate exhibits

RF Module-MW276 unshielded (length)
photos deleted - refer to separate exhibits

RF Module-MW276 (width)
photos deleted - refer to separate exhibits

RF Module-MW276 unshielded (width)
photos deleted - refer to separate exhibits

1.3 Photos – Test Setup

Setup for measurements below 1 GHz
photos deleted - refer to separate exhibits

Setup for measurements below 1 GHz
photos deleted - refer to separate exhibits

Setup for measurements above 1 GHz
photos deleted - refer to separate exhibits

Setup for measurements above 1 GHz
photos deleted - refer to separate exhibits

EUT Test Setup
photos deleted - refer to separate exhibits

Setup for measurements above 1 GHz
photos deleted - refer to separate exhibits

Setup for measurements above 1 GHz
photos deleted - refer to separate exhibits

EUT Test Setup
photos deleted - refer to separate exhibits

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Notebook	Dell	Latitude E7250	For configuring test modes
AE	Evaluation Board	u-blox		
CBL	USB-C	---	---	Connection between evaluation board and EUT
CBL	Data cable	---	---	
CBL	SBI cable			
CBL	Ethernet	---	---	Connection between evaluation board and notebook
AE	AC/DC Adapter	EDACPOWER ELECT.	EA1045CR	To power the evaluation board
SFT	Terminal	Debian / Linux	---	For test mode activation
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

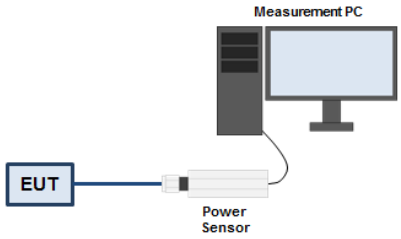
1.5 Test mode data rate evaluation

1.5.1 Information

Test Information	
Measurement Method	KDB 789033 E

1.5.2 Setup

Test Setup



1.5.3 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Power Sensor	ETS-Lindgren	7002-006	EF00934	2022-07	2023-07

1.5.4 Procedure

Test Procedure

1. EUT set to test mode on the first supported channel for each modulation and data rate
2. The conducted power is measured with a wide band power sensor
3. The power is measured for all data rates/modulations supported by the EUT
4. The data rate with the highest output power for each technology is selected for test mode

Comment: The EUT is set to the power level 19.

1.5.5 Results

U-NII-1

OFDM - 5180 MHz							
Output power [dBm]							
6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
18.9	**19.1**	19.1	18.9	19.0	19.1	18.9	19.2

HT20 - 5180 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.8	18.8	18.9	**19.1**	18.9	18.9	18.8	18.9

HT40 - 5190 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.7	18.8	18.6	18.8	18.8	**18.9**	18.6	18.7

VHT20 - 5180 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
19.1	19	18.8	19	19	18.9	18.8	18.8	18.7	_

VHT40 - 5190 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18.7	18.7	18.6	18.6	18.7	18.5	**18.8**	18.6	18.4	_

VHT80 - 5210 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18.8	18.6	18.6	18.6	18.8	18.7	18.7	18.6	18.7	_

U-NII-2A

OFDM - 5300 MHz							
Output power [dBm]							
6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
18.6	18.6	18.6	18.6	18.6	18.6	18.6	**18.7**

HT20 - 5300 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.5	18.5	**18.6**	18.6	18.5	18.6	18.6	18.6

HT40 - 5310 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.3	18.3	18.2	18.2	18.3	18.3	18.3	18.3

VHT20 - 5300 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18.5	18.5	18.5	18.5	18.5	18.5	18.5	**18.6**	18.5	no support

VHT40 - 5310 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
17.2	17.1	17.1	17.1	17.2	17.2	17.1	17.1	17.1	-

VHT80 - 5290 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	-

U-NII-2C

OFDM - 5600 MHz							
Output power [dBm]							
6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.1

HT20 - 5600 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.0	18.0	18.0	18.0	18.0	18.0	**18.1**	18.1

HT40 - 5590 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
17.9	17.7	17.9	17.9	17.9	**18.0**	18.0	18.0

VHT20 - 5590 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18.0	**18.1**	18.1	18.1	18.1	17.9	18.1	18.0	18.0	no support

VHT40 - 5550 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
17.9	17.9	17.9	17.9	17.9	**18**	18	18	18	-

VHT80 - 5530 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18	18	18	18	**18.1**	18.1	18.1	18.1	18.1	-

U-NII-3

OFDM - 5785 MHz							
Output power [dBm]							
6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6

HT20 - 5785 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.6	18.4	18.5	18.5	18.5	18.5	18.5	18.5

HT40 - 5795 MHz							
Output power [dBm]							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
18.4	18.3	18.3	18.2	18.3	18.4	18.4	18.4

VHT20 - 5785 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18.5	18.5	18.5	18.4	18.5	18.5	18.5	18.5	18.5	no support

VHT40 - 5755 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
18	18	18	18	18	18	18	18	18	-

VHT80 - 5775 MHz									
Output power [dBm]									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
17.9	**18**	18	18	18	18	18	18	18	-

1.6 Test mode duty cycle evaluation

1.6.1 Information

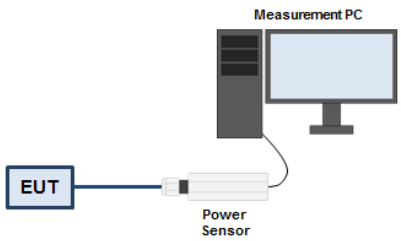
Test Information	
Measurement Method	ANSI C63.10 12.2

1.6.2 Requirements

Requirements	
Duty cycle	Duty cycle correction
≥ 98 %	No correction required
< 98 %	Correction required (10 x Log_{10}(1/DC)

1.6.3 Setup

Test Setup



1.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Power Sensor	ETS-Lindgren	7002-006	EF00934	2022-07	2023-07

1.6.5 Procedure

Test Procedure

1. EUT set to test mode
2. Sweep time is set long enough to capture at least 5 bursts
3. The maximum burst duration TON is measured
4. The minimum idle duration TOFF is measured
5. The duty cycle is calculated by DC = T_{ON} / (T_{ON} + T_{OFF})
6. The duty cycle correction is calculated by DC = -10 x Log_{10}(T_{ON} / (T_{ON} + T_{OFF}))

1.6.6 Results

OFDM							
Duty cycle %							
6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
99.3	99.0	98.7	98.1	97.5	96.3	95.2	94.7

HT20							
Duty cycle %							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
99.7	99.6	99.3	99.2	98.8	98.4	98.2	98.1

HT40							
Duty cycle %							
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7
99.5	99.1	98.8	98.4	97.6	96.9	96.6	96.2

VHT20									
Duty cycle %									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
99.7	99.5	99.3	99.2	98.8	98.4	98.2	98.1	97.7	no support

VHT40									
Duty cycle %									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
99.5	99.1	98.7	98.4	97.6	96.9	96.6	96.2	95.6	no support

VHT80									
Duty cycle %									
MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
99	98.2	97.4	96.6	95.1	93.8	93.2	92.7	91.5	no support

Duty Cycle Results				
Mode	Channel	Data rate	Duty Cycle	Correction Factor [dB]
OFDM	5180	9 Mbps	0.99	0
HT20	5180	MCS 3	0.984	0
HT40	5190	MCS 5	0.969	0.14
VHT20	5180	MCS 0	0.997	0
VHT40	5190	MCS 6	0.966	0.15
VHT80	5210	MCS 3	0.966	0.15

1.7 Test Modes

Mode	Description
OFDM (IEEE 802.11a)	Mode = Transmit Bandwidth = 20 MHz Duty cycle = 99% Data rate = 9 Mbps Packet length = 2000 Burst SIFS = 20 µs
HT20 (IEEE 802.11n)	Mode = Transmit Bandwidth = 20 MHz Duty cycle = 98.4% Data rate = 26 Mbps (MCS 3) Packet length = 2000 Burst SIFS = 20 µs
HT40 (IEEE 802.11n)	Mode = Transmit Bandwidth = 40 MHz Duty cycle = 96.9% Data rate = 108 Mbps (MCS 5) Packet length = 2000 Burst SIFS = 20 µs
VHT20 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 20 MHz Duty cycle = 99.7% Data rate = 6.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
VHT40 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 40 MHz Duty cycle = 96.6% Data rate = 121.5 Mbps (MCS 6) Packet length = 2000 Burst SIFS = 20 µs
VHT80 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 80 MHz Duty cycle = 96.6% Data rate = 26 Mbps (MCS 3) Packet length = 2000 Burst SIFS = 20 µs
Note: The power setting in table (*1.9 Power setting*) applies for the respective test mode and frequency.	
Comment: The above settings were found as worst case by evaluation of the output power.	

1.8 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	36	5180
F2	Tx / Rx	40	5200
F3	Tx / Rx	48	5240
F4	Tx / Rx	38=36+40	5190
F5	Tx / Rx	46=44+48	5230
F6	Tx / Rx	42=36+40+44+48	5210
F0	Tx / Rx	52	5260
F7	Tx / Rx	60	5300
F9	Tx / Rx	64	5320
F10	Tx / Rx	54=52+56	5270
F11	Tx / Rx	62=60+64	5310
F12	Tx / Rx	58=52+56+60+64	5290
F13	Tx / Rx	100	5500
F14	Tx / Rx	116	5580
F15	Tx / Rx	120	5600
F16	Tx / Rx	140	5700
F17	Tx / Rx	144	5720
F18	Tx / Rx	102=100+104	5510
F19	Tx / Rx	118=116+120	5590
F20	Tx / Rx	142=140+144	5710
F21	Tx / Rx	106=100+104+108+112	5530
F22	Tx / Rx	122=116+120+124+128	5610
F23	Tx / Rx	138=132+136+140+144	5690
F24	Tx / Rx	149	5745
F25	Tx / Rx	157	5785
F26	Tx / Rx	165	5825
F27	Tx / Rx	151=149+153	5755
F28	Tx / Rx	159=157+161	5795
F29	Tx / Rx	155=149+153+157+161	5775

1.9 Power Setting

Channel	Frequency [MHz]	Power setting -applicable for EUT with Antenna 1 (external)- [dBm]	Power setting -applicable for EUT with Antenna 2 (embedded)- [dBm]
U-NII-1			
36	5180	17	16
40	5200	19	19
44	5220	19	19
48	5240	19	19
38=36+40	5190	14	16
46=44+48	5230	19	19
42=36+40+44+48	5210	14	14
U-NII-2A			
52	5260	19	19
56	5280	19	19
60	5300	19	19
64	5320	17	17
54=52+56	5270	19	19
62=60+64	5310	14	14
58=52+56+60+64	5290	14	14
U-NII-2C			
100	5500	17	17
104 - 136	5520 - 5680	19	19
140	5700	14	14
144	5720	16	16
102=100+104	5510	12	12
110 =108+112	5550	19	19
118=116+120	5590	19	19
126 & 134	5630 & 5670	19	19
142=140+144	5710	16	16
106=100+104+108+112	5530	12	12
122=116+120+124+128	5610	16	16
138=132+136+140+144	5690	16	16
U-NII-3			
149	5745	16	19
153	5765	19	19
157	5785	19	19
161	5805	19	19
165	5825	19	19
151=149+153	5755	16	16
159=157+161	5795	19	19
155=149+153+157+161	5775	16	16
Comment: The power setting corresponds to the applicant's plan, and were assessed during preliminary tests. Conducted peak/average output power, power spectral density, and spurious emission were evaluated to determine the suitable power setting for each tested mode and frequency.			

1.10 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyzer (dBµV) + A.F. (dB/m) = Net field strength (dBµV/m)

Net:

This is the net field strength measurement (as shown above).

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Field strength limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

Field strength limit (dBµV/m) = 20 · log (µV/m)

Example only for radiated field strength:

Reading + AF	= Net Reading	:	Net reading	- Field strength limit	= Margin
+21.5 dBµV	+ 26 dB/m	:	47.5 dBµV/m	- 57.0 dBµV/m	= -9.5

1.11 Normative References

References	
Designator	Reference
KDB 789033	KDB 789033 D02 v02r01
ANSI C63.10	ANSI C63.10:2013

2 Result Summary

FCC 47 CFR Part 15E				
Product Standard Reference	**Requirement**	**Reference Method**	**Result**	**Remarks**
FCC 15.407(e)	6 dB bandwidth	KDB 789033 C.2	PASS	Only required in 5725-5850 MHz band.
FCC 15.407(a)(2),(a)(5),(h)(2)	26 dB bandwidth	KDB 789033 C.1	PASS	No limit. Basis for other measurements.
FCC 15.407(a)	Maximum output power	KDB 789033 E	PASS	
FCC 15.407(a)	Transmit power control	KDB 789033 E	N/R	Required in 5250-5350 and 5470-5725 MHz bands. Not required for EIRP < 500 mW.
FCC 15.407(a)	Power spectral density	KDB 789033 F	PASS	
FCC 15.407(g)	Frequency stability	ANSI C63.10 6.8	PASS	
FCC 15.207	AC power line conducted emissions	ANSI C63.10 6.2	PASS	
FCC 15.407(b)	Transmitter radiated emissions	KDB 789033 G	PASS	
FCC 15.407(a)	Radiation pattern	KDB 789033 H	N/R	Required for outdoor access points
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - 6 dB bandwidth

3.1.1 Information

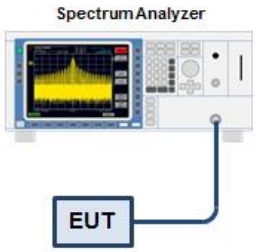
Test Information	
Reference	FCC 15.407(e)
Measurement Method	KDB 789033 C.2
Operator	Dhamia Almozani
Date	2023-05-04
Measurement uncertainty	±1.26 %

3.1.2 Limits

Limits
≥ 500 kHz

3.1.3 Setup

Test Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01003	2022-07	2023-07
Cable (CAABB)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.1.5 Procedure

Test Procedure

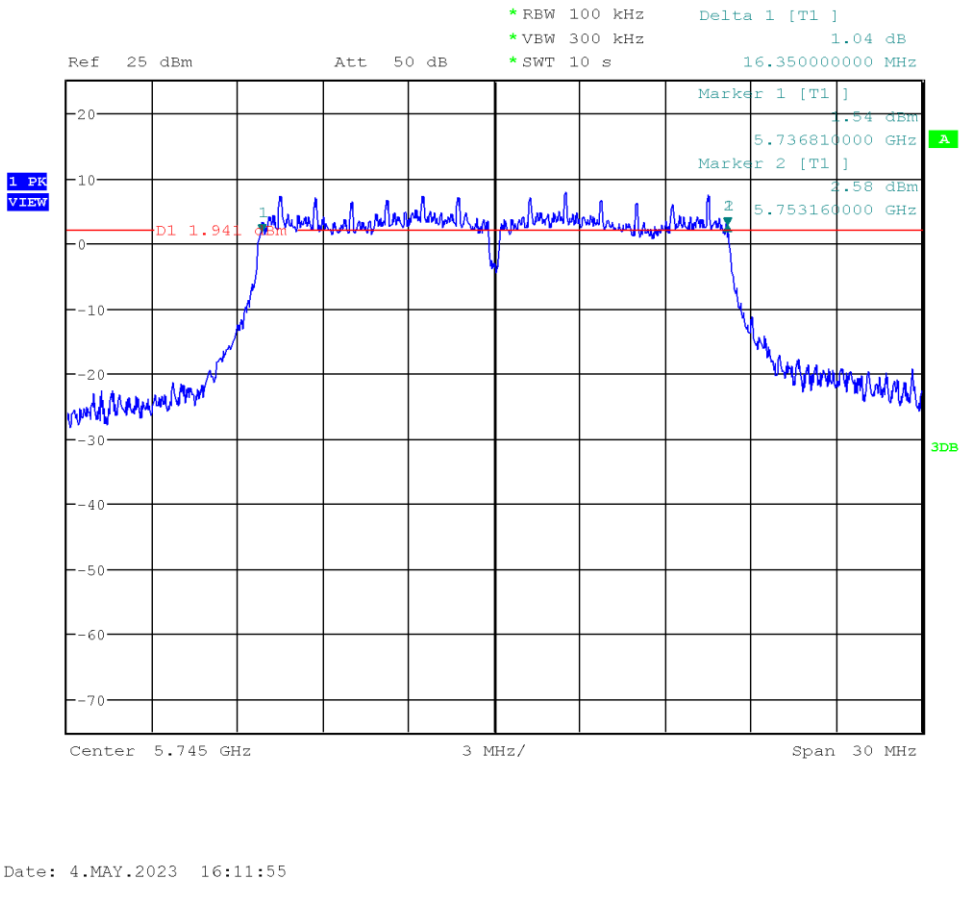
1. EUT transmitter is activated in test mode under normal conditions
2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the nominal channel bandwidth
3. The resolution bandwidth is set to 100 kHz and video bandwidth ≥ 3 x RBW
4. The peak of the emission spectrum is determined
5. The left most frequency that corresponds to an emission level 6 dB below the maximum is determined
6. The right most frequency that corresponds to an emission level 6 dB below the maximum is determined
7. The 6 dB bandwidth is calculated from the two edge frequencies

3.1.6 Results

Test Results - 5725 - 5850 MHz					
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW [KHz]	Verdict
OFDM	149	5745	20	16350.0	PASS
OFDM	157	5785	20	16350.0	PASS
OFDM	165	5825	20	16365.0	PASS
HT20	149	5745	20	17655.0	PASS
HT20	157	5785	20	17685.0	PASS
HT20	165	5825	20	17685.0	PASS
HT40	149+153	5755	40	36390.0	PASS
HT40	157+161	5795	40	36420.0	PASS
VHT20	149	5745	20	17310.0	PASS
VHT20	157	5785	20	17085.0	PASS
VHT20	165	5825	20	17325.0	PASS
VHT40	149+153	5755	40	36450.0	PASS
VHT40	157+161	5795	40	36360.0	PASS
VHT80	149+153+157+161	5775	80	76320.0	PASS

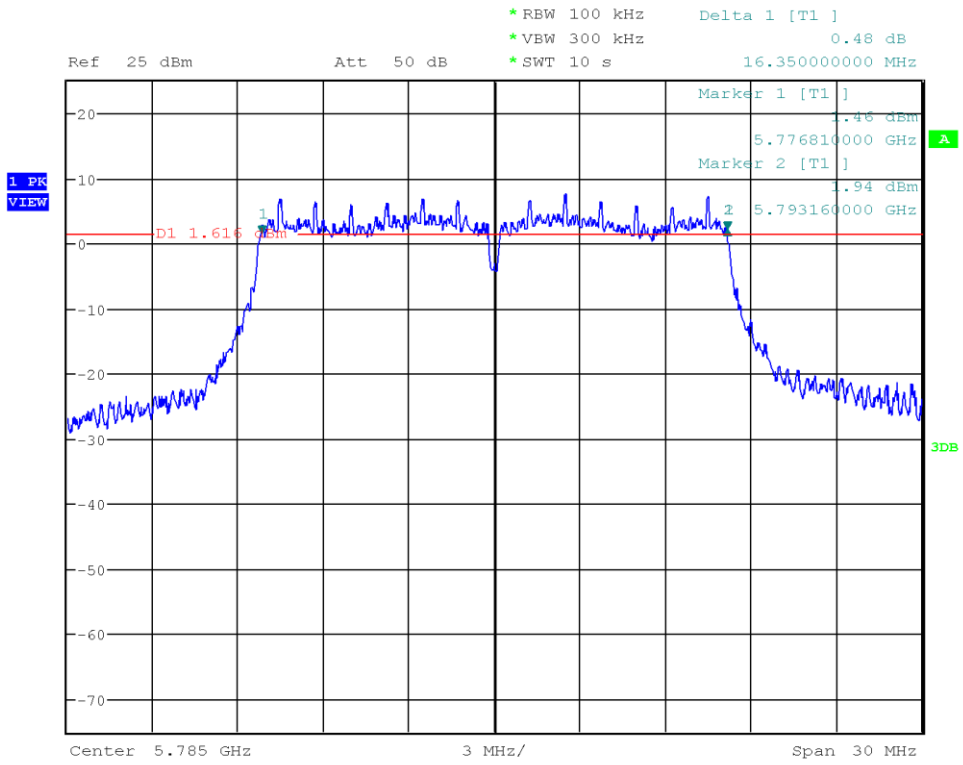
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	OFDM, Bit rate= 6Mbps
Lower Frequency [MHz]:	5736.810
Upper Frequency [MHz]:	5753.160
6 dB Bandwidth [kHz]:	16350.0



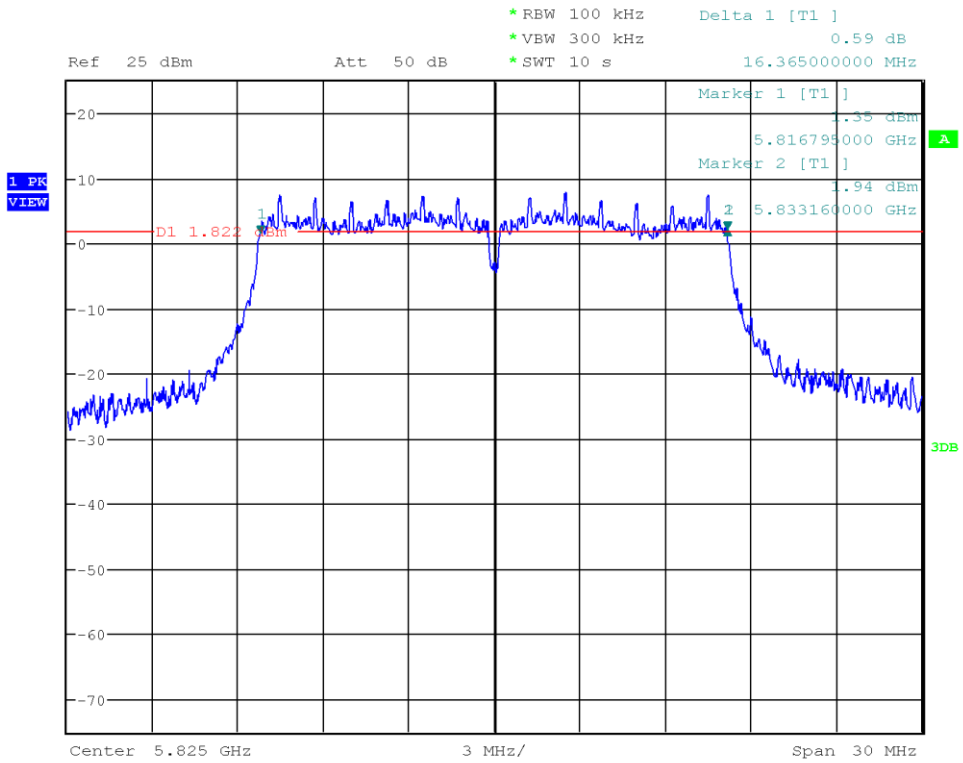
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	OFDM, Bit rate= 6Mbps
Lower Frequency [MHz]:	5776.810
Upper Frequency [MHz]:	5793.160
6 dB Bandwidth [kHz]:	16350.0



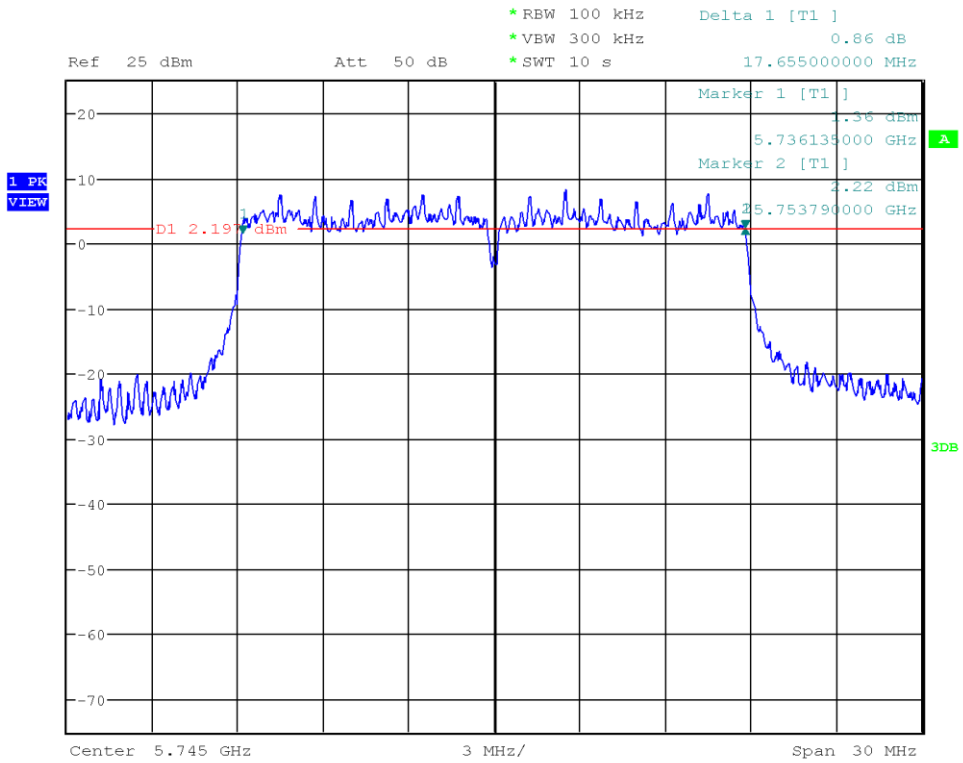
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	OFDM, Bit rate= 6Mbps
Lower Frequency [MHz]:	5816.795
Upper Frequency [MHz]:	5833.160
6 dB Bandwidth [kHz]:	16365.0



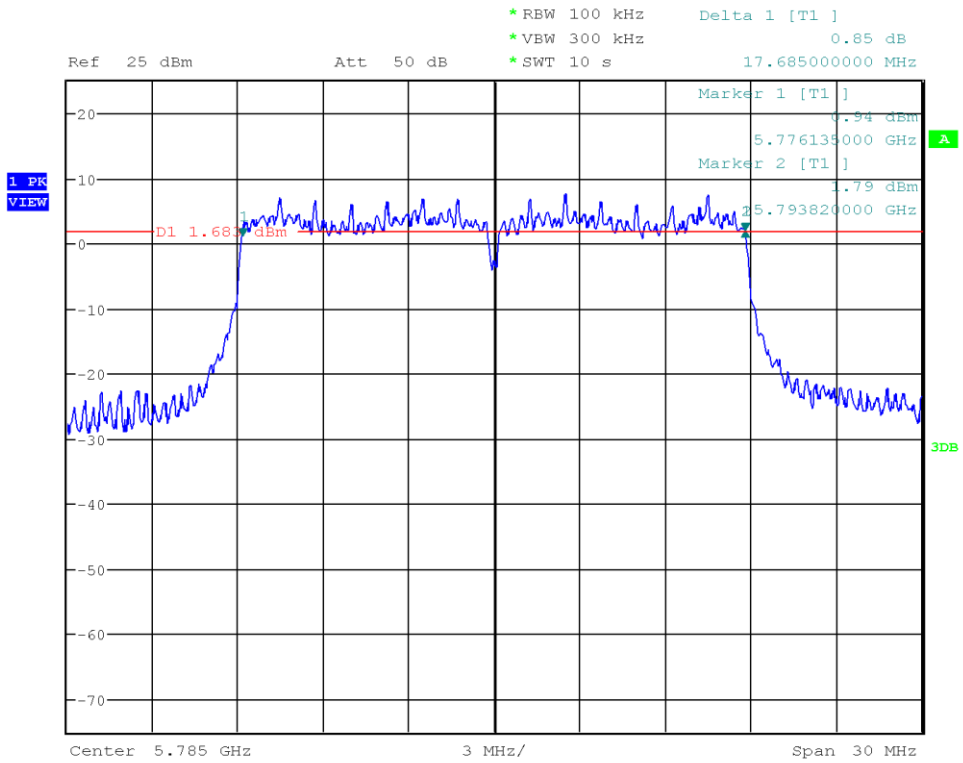
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	HT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5736.135
Upper Frequency [MHz]:	5753.790
6 dB Bandwidth [kHz]:	17655.0



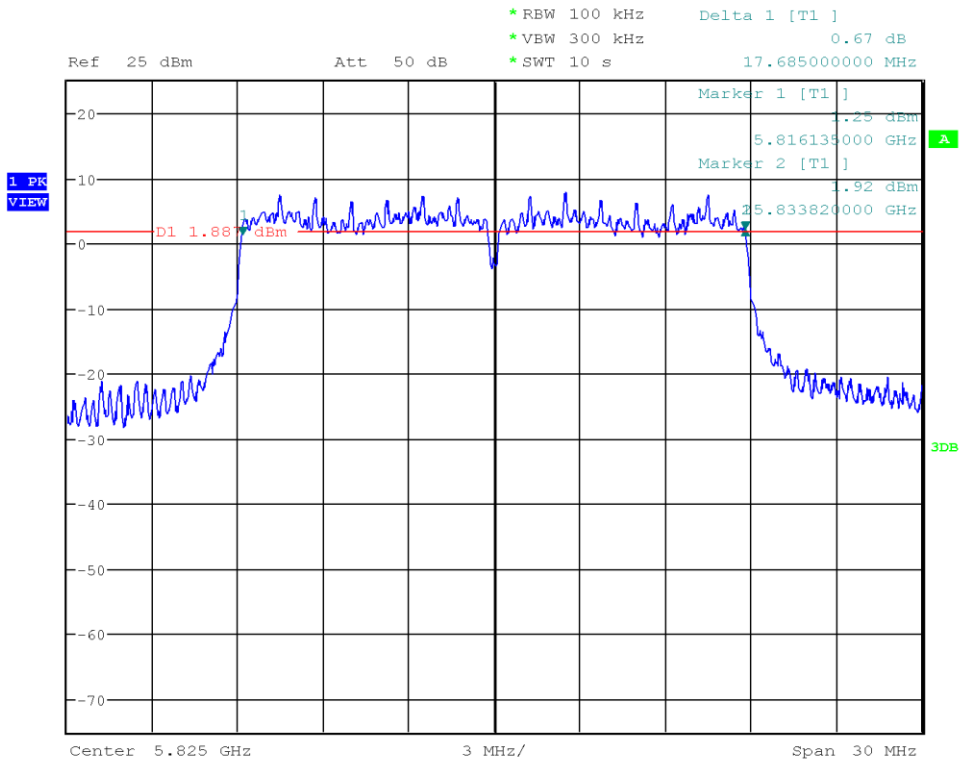
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	HT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5776.135
Upper Frequency [MHz]:	5793.820
6 dB Bandwidth [kHz]:	17685.0



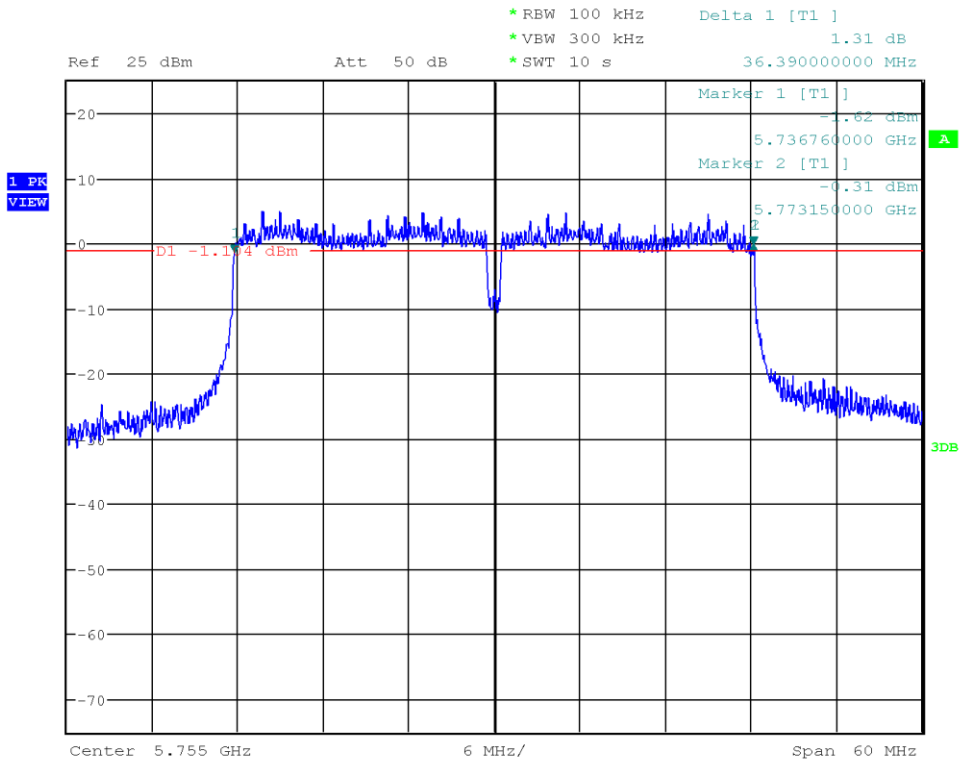
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	HT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5816.135
Upper Frequency [MHz]:	5833.820
6 dB Bandwidth [kHz]:	17685.0



DTS (6 dB) Bandwidth

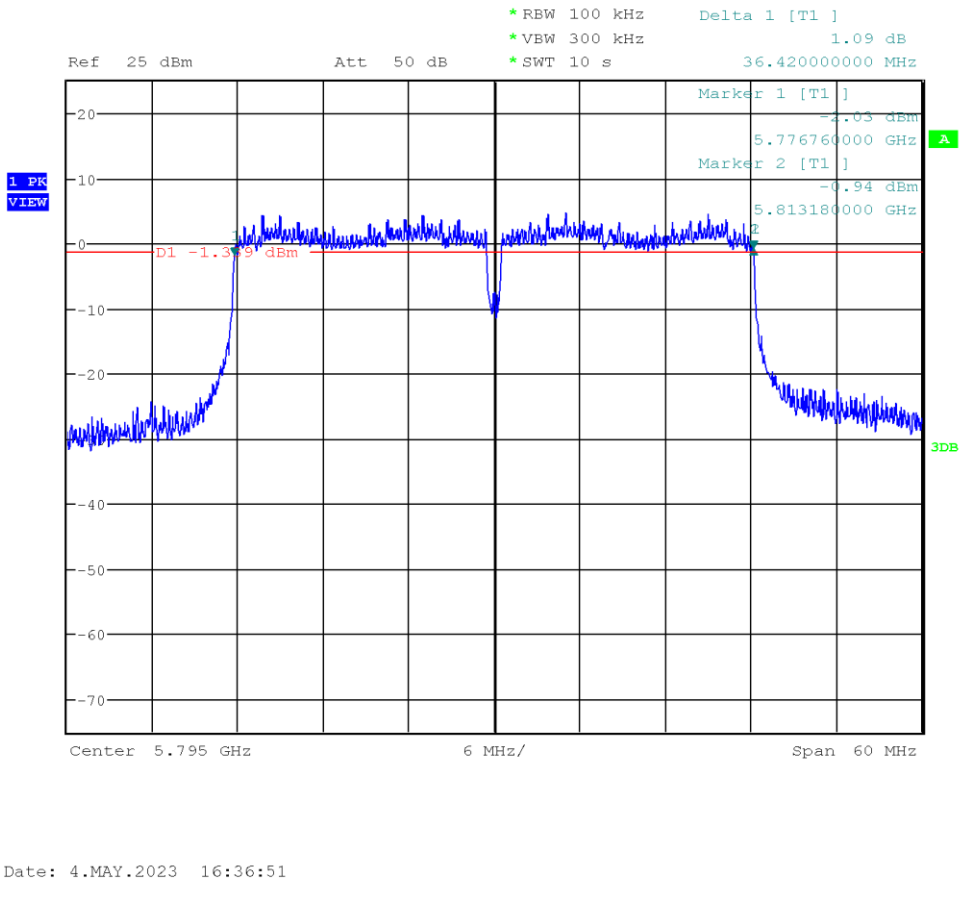
Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 151, 5755 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	HT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5736.760
Upper Frequency [MHz]:	5773.150
6 dB Bandwidth [kHz]:	36390.0



Date: 4.MAY.2023 16:34:18

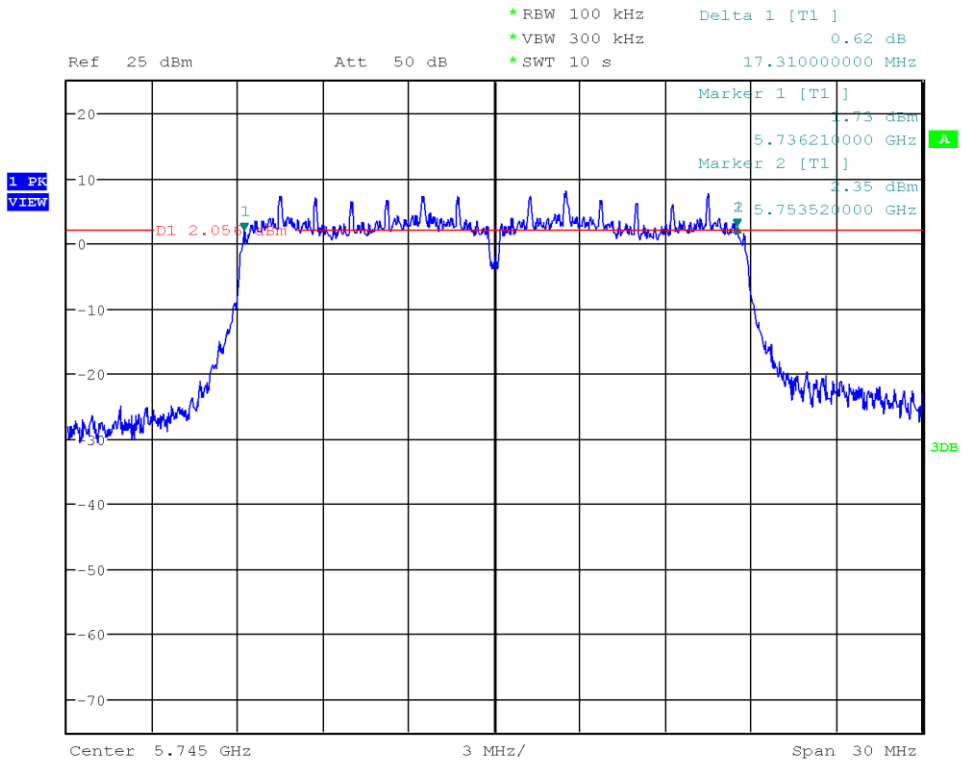
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 159, 5795 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	HT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5776.760
Upper Frequency [MHz]:	5813.180
6 dB Bandwidth [kHz]:	36420.0



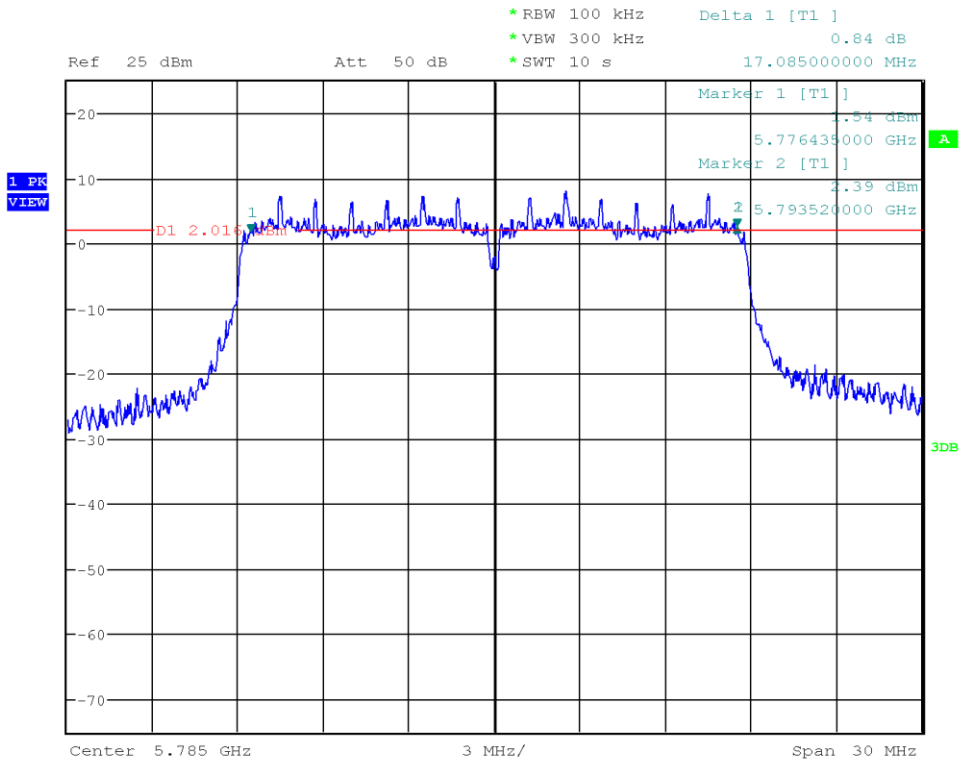
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5736.210
Upper Frequency [MHz]:	5753.520
6 dB Bandwidth [kHz]:	17310.0



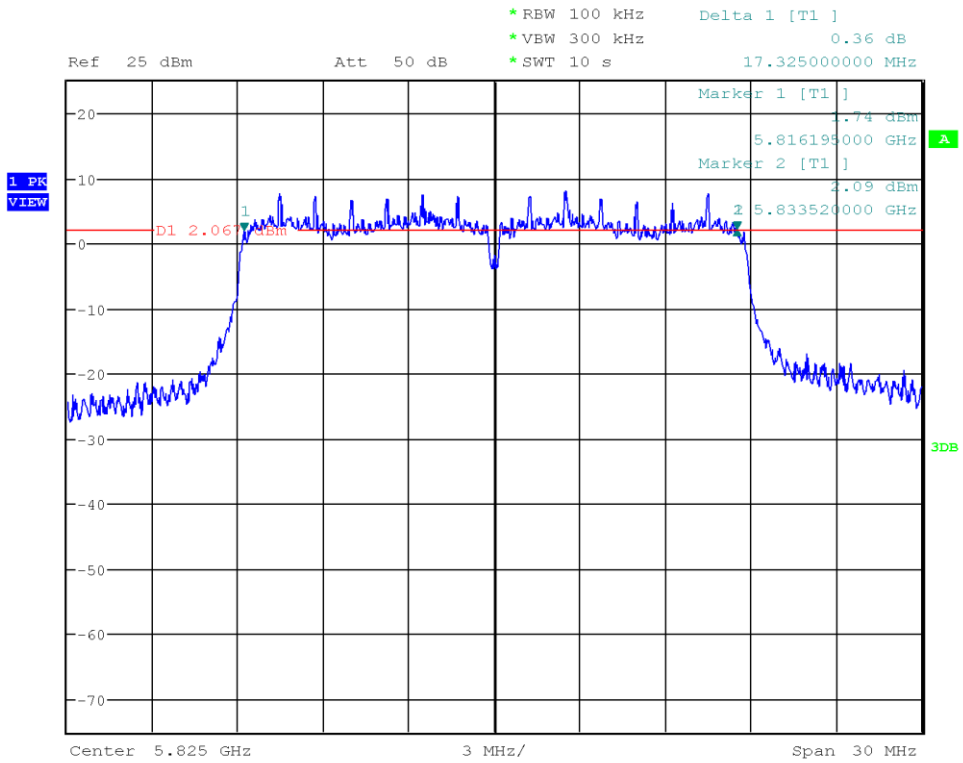
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5776.435
Upper Frequency [MHz]:	5793.520
6 dB Bandwidth [kHz]:	17085.0



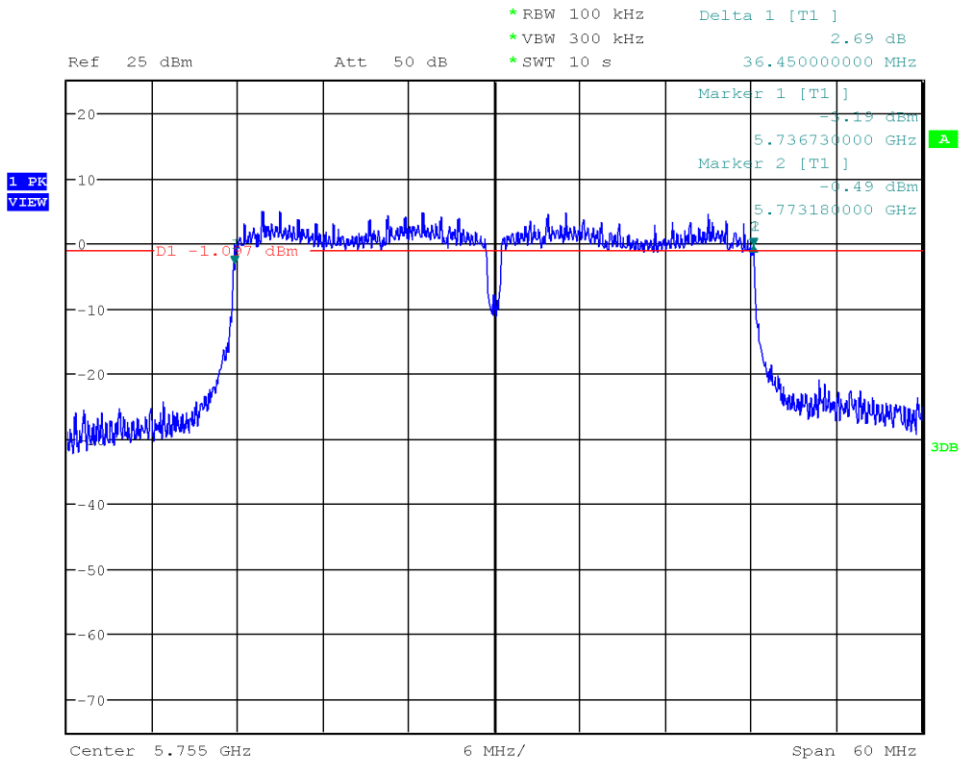
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5816.195
Upper Frequency [MHz]:	5833.520
6 dB Bandwidth [kHz]:	17325.0



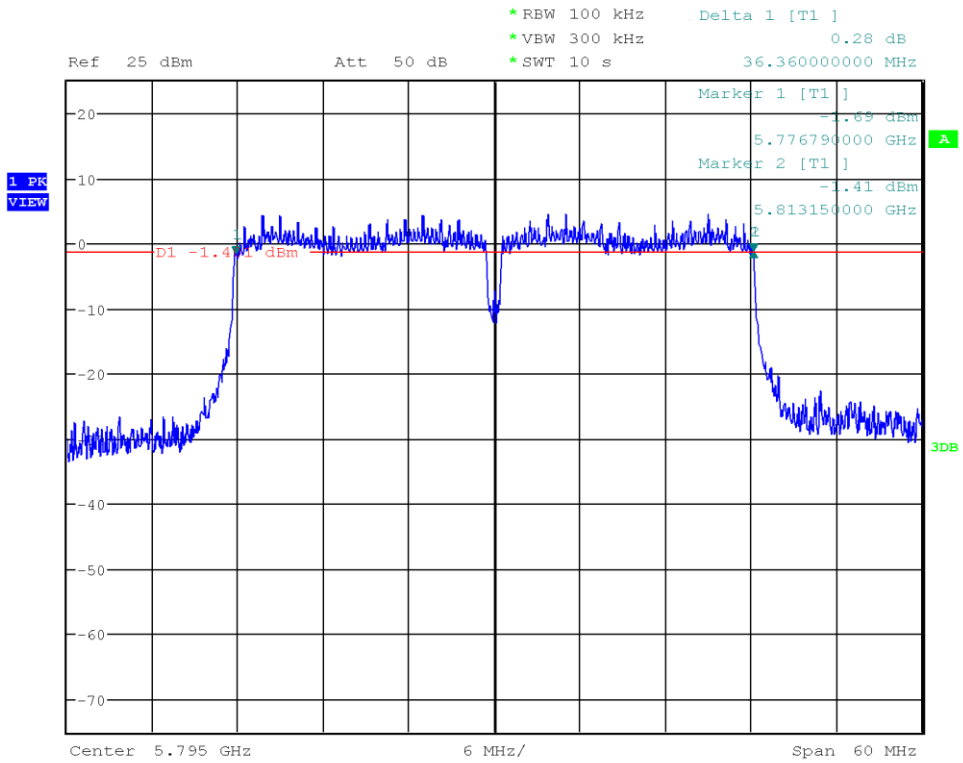
DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 151, 5755 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5736.730
Upper Frequency [MHz]:	5773.180
6 dB Bandwidth [kHz]:	36450.0



DTS (6 dB) Bandwidth

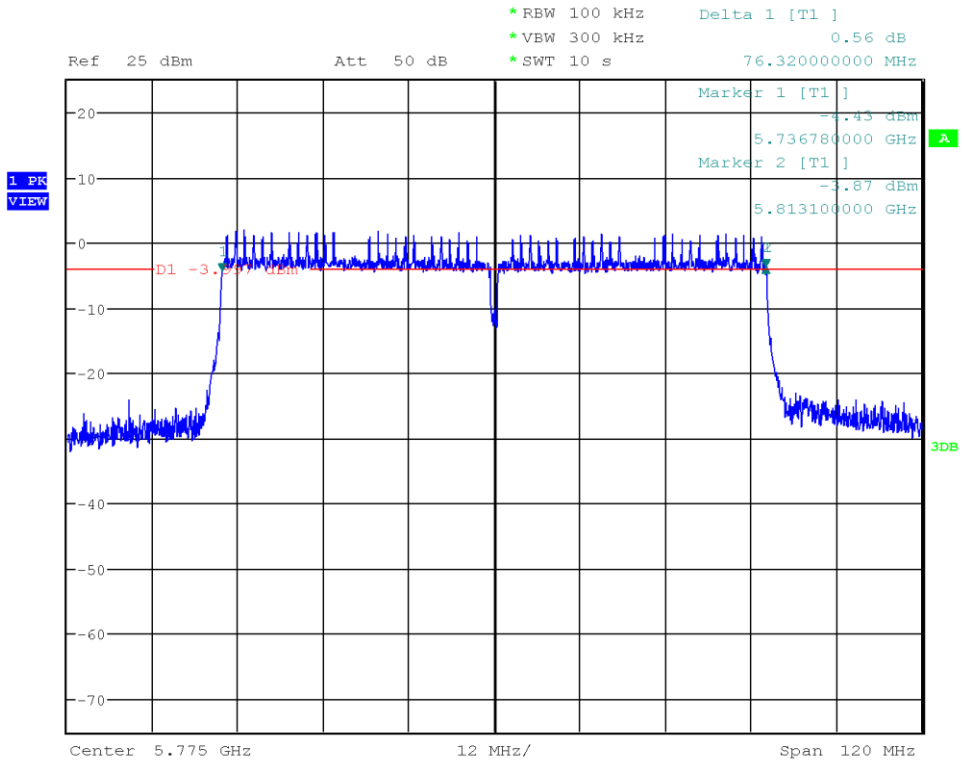
Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 159, 5795 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5776.790
Upper Frequency [MHz]:	5813.150
6 dB Bandwidth [kHz]:	36360.0



Date: 4.MAY.2023 16:48:06

DTS (6 dB) Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 155, 5775 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-04
Antenna Port:	1
Note:	VHT80, Bit rate= MCS 1
Lower Frequency [MHz]:	5736.780
Upper Frequency [MHz]:	5813.100
6 dB Bandwidth [kHz]:	76320.0



3.2 Test Conditions and Results - 26 dB emission bandwidth

3.2.1 Information

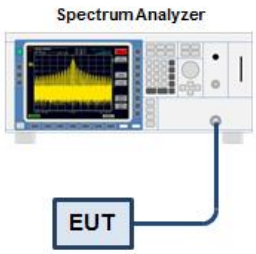
Test Information	
Reference	FCC 15.407(a)(2),(a)(5),(h)(2)
Measurement Method	KDB 789033 C.1
Operator	Radwan Jaafar
Date	2023-06-07
Measurement uncertainty	±1.26 %

3.2.2 Limits

Limits
None, used to determine power limit and necessary DFS functionality

3.2.3 Setup

Test Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01003	2022-07	2023-07
Cable (CAABB)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.2.5 Procedure

Test Procedure

1. EUT transmitter is activated in test mode under normal conditions
2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the nominal channel bandwidth
3. The resolution bandwidth is set to approximately 1% of the emission bandwidth and video bandwidth ≥ RBW
4. The peak of the emission spectrum is determined
5. The left most frequency that corresponds to an emission level 26 dB below the maximum is determined
6. The right most frequency that corresponds to an emission level 26 dB below the maximum is determined
7. The 26 dB bandwidth is calculated from the two edge frequencies
8. The RBW is corrected and the measurement is repeated if needed

3.2.6 Results

Test Results - 5150 - 5250 MHz – 26 dB BW					
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW Upper Edge [MHz]	BW [MHz]
OFDM	36	5180	20	-	19.335
OFDM	40	5200	20	-	19.365
OFDM	48	5240	20	5249.645	19.290
HT20	36	5180	20	-	19.620
HT20	40	5200	20	-	19.515
HT20	48	5240	20	5249.870	19.800
HT40	36+40	5190	40	-	40.890
HT40	44+48	5230	40	5250.580	40.980
VHT20	36	5180	20	-	19.830
VHT20	40	5200	20	-	19.665
VHT20	48	5240	20	5249.885	19.785
VHT40	36+40	5190	40	-	40.230
VHT40	44+48	5230	40	5250.010	40.140
VHT80	36+40+44+48	5210	80	5250.650	81.600

Test Results - 5150 - 5250 MHz – 99% BW					
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW Upper Edge [MHz]	BW [MHz]
OFDM	48	5240	20	5248.540	17.120
HT20	48	5240	20	5248.980	17.900
HT40	44+48	5230	40	5248.160	36.400
VHT20	48	5240	20	5249.040	18.040
VHT40	44+48	5230	40	5248.200	36.400
VHT80	36+40+44+48	5210	80	5248.640	77.200
If the Emission Bandwidth (26 dB) does not fall entirely in the band, Occupied Bandwidth (99%) can be used instead to determine whether DFS testing is required for this band					

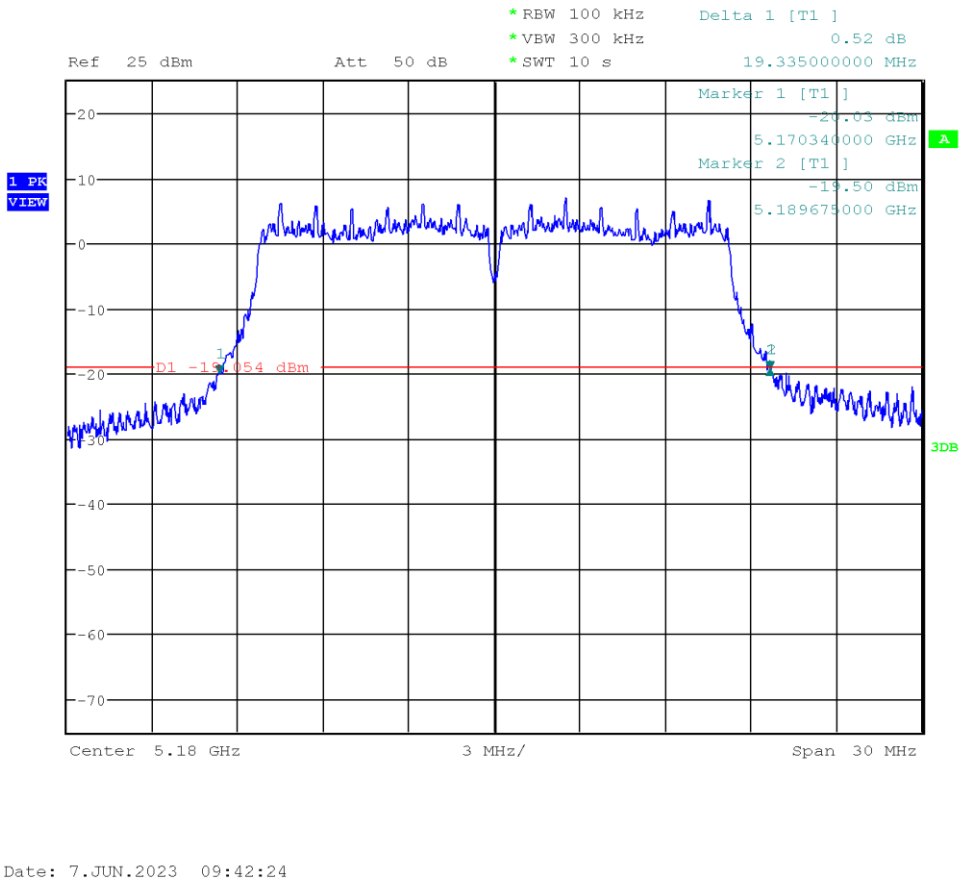
Test Results - 5250 - 5350 MHz – 26 dB BW				
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW [MHz]
OFDM	52	5260	20	19.080
OFDM	56	5280	20	18.825
OFDM	64	5320	20	19.125
HT20	52	5260	20	19.485
HT20	56	5280	20	19.410
HT20	64	5320	20	19.485
HT40	52+56	5270	40	40.980
HT40	60+64	5310	40	40.770
VHT20	52	5260	20	19.305
VHT20	56	5280	20	19.410
VHT20	64	5320	20	19.410
VHT40	52+56	5270	40	40.530
VHT40	60+64	5310	40	40.530
VHT80	52+56+60+64	5290	80	81.900

Test Results - 5470 - 5725 MHz – 26 dB BW				
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW [MHz]
OFDM	100	5500	20	19.095
OFDM	120	5600	20	18.990
OFDM	144	5720	20	19.035
HT20	100	5500	20	19.515
HT20	120	5600	20	19.425
HT20	144	5720	20	19.395
HT40	100+104	5510	40	39.960
HT40	116+120	5590	40	39.930
HT40	140+144	5710	40	39.900
VHT20	100	5500	20	19.425
VHT20	120	5600	20	19.395
VHT20	144	5720	20	19.440
VHT40	100+104	5510	40	40.080
VHT40	116+120	5590	40	39.810
VHT40	140+144	5710	40	39.960
VHT80	100+104+108+112	5530	80	81.450
VHT80	116+120+124+128	5610	80	81.450
VHT80	132+136+140+144	5690	80	81.450

Test Results - 5725 - 5850 MHz – 26 dB BW				
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	BW [MHz]
OFDM	149	5745	20	19.380
OFDM	157	5785	20	19.215
OFDM	165	5825	20	19.245
HT20	149	5745	20	19.905
HT20	157	5785	20	19.455
HT20	165	5825	20	19.440
HT40	149+153	5755	40	41.100
HT40	157+161	5795	40	40.740
VHT20	149	5745	20	19.650
VHT20	157	5785	20	19.545
VHT20	165	5825	20	19.590
VHT40	149+153	5755	40	40.560
VHT40	157+161	5795	40	40.410
VHT80	149+153+157+161	5775	80	81.750

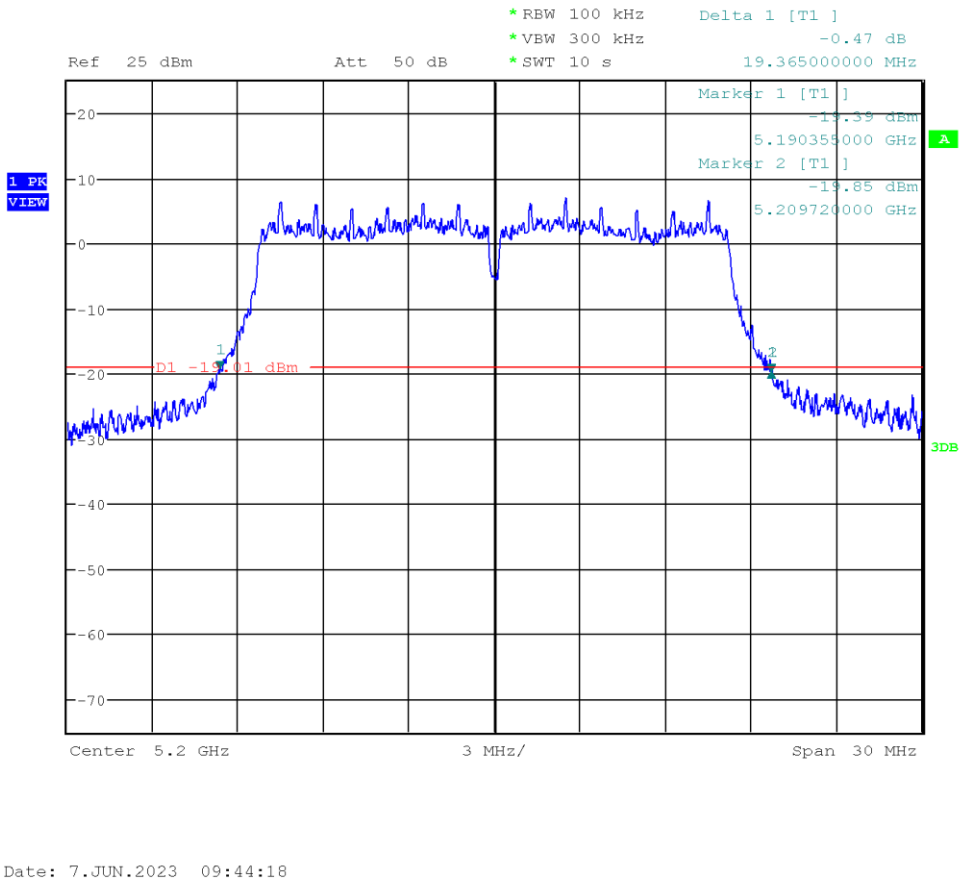
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 9Mbps
Lower Frequency [MHz]:	5170.340
Upper Frequency [MHz]:	5189.675
26 dB Bandwidth [MHz]:	19.335



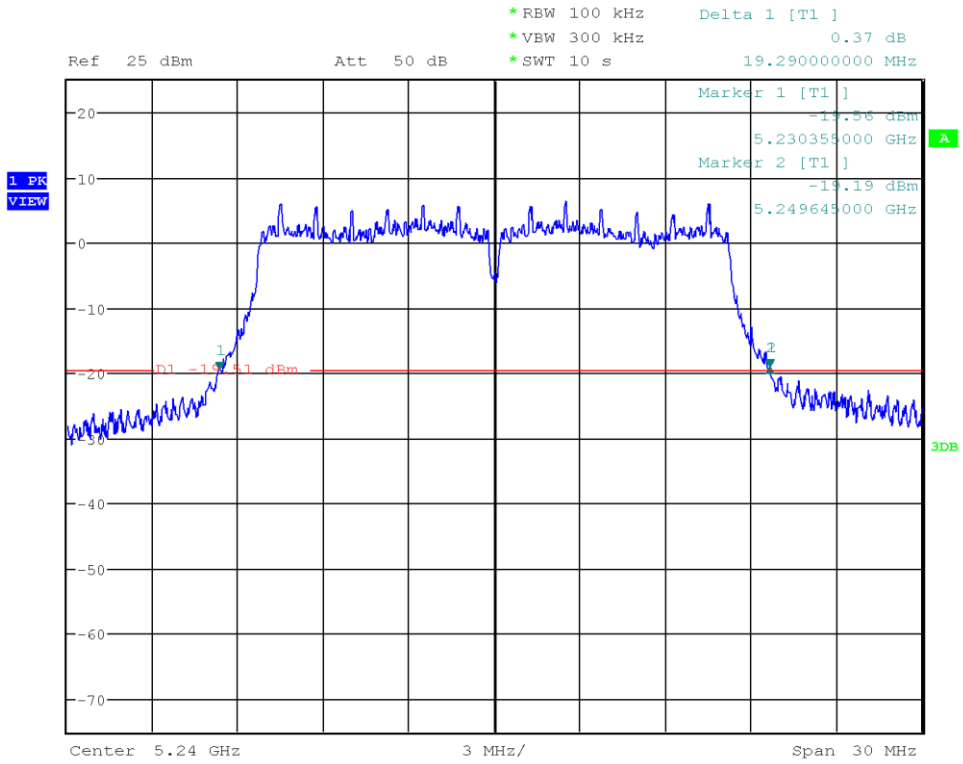
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 9Mbps
Lower Frequency [MHz]:	5190.355
Upper Frequency [MHz]:	5209.720
26 dB Bandwidth [MHz]:	19.365



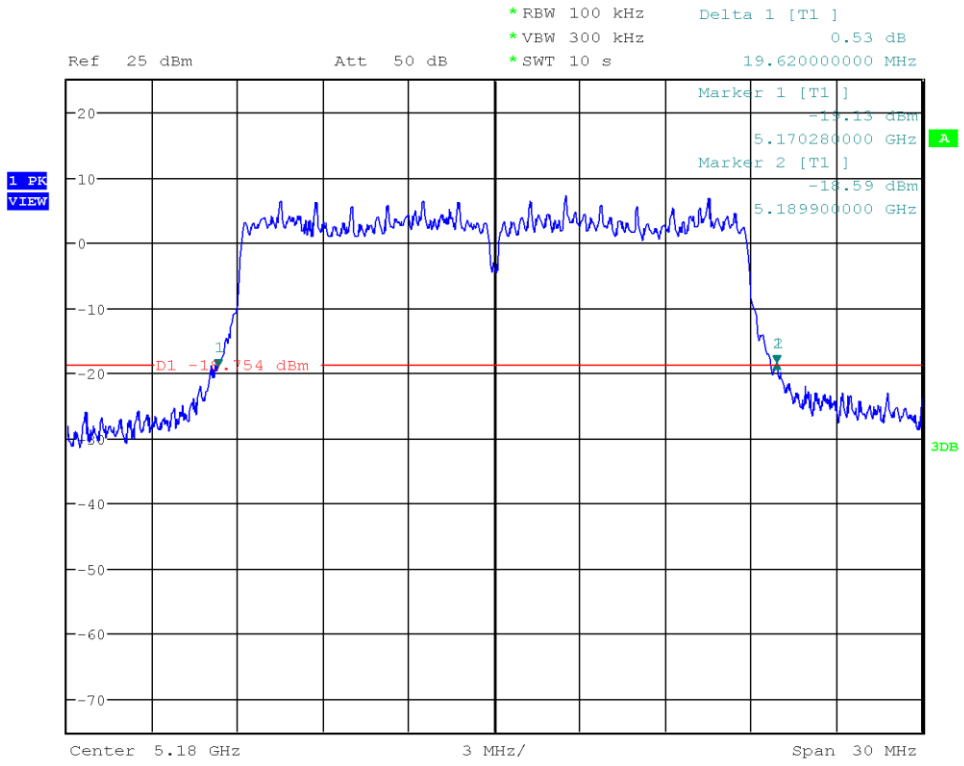
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 9Mbps
Lower Frequency [MHz]:	5230.355
Upper Frequency [MHz]:	5249.645
26 dB Bandwidth [MHz]:	19.290



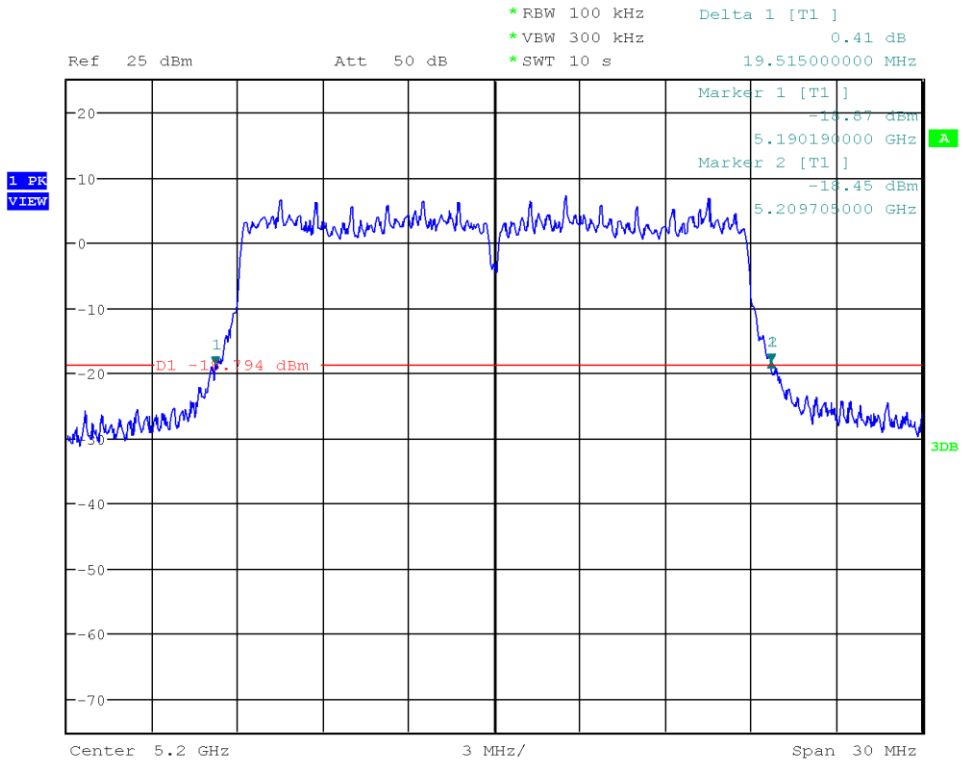
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 3
Lower Frequency [MHz]:	5170.280
Upper Frequency [MHz]:	5189.900
26 dB Bandwidth [MHz]:	19.620



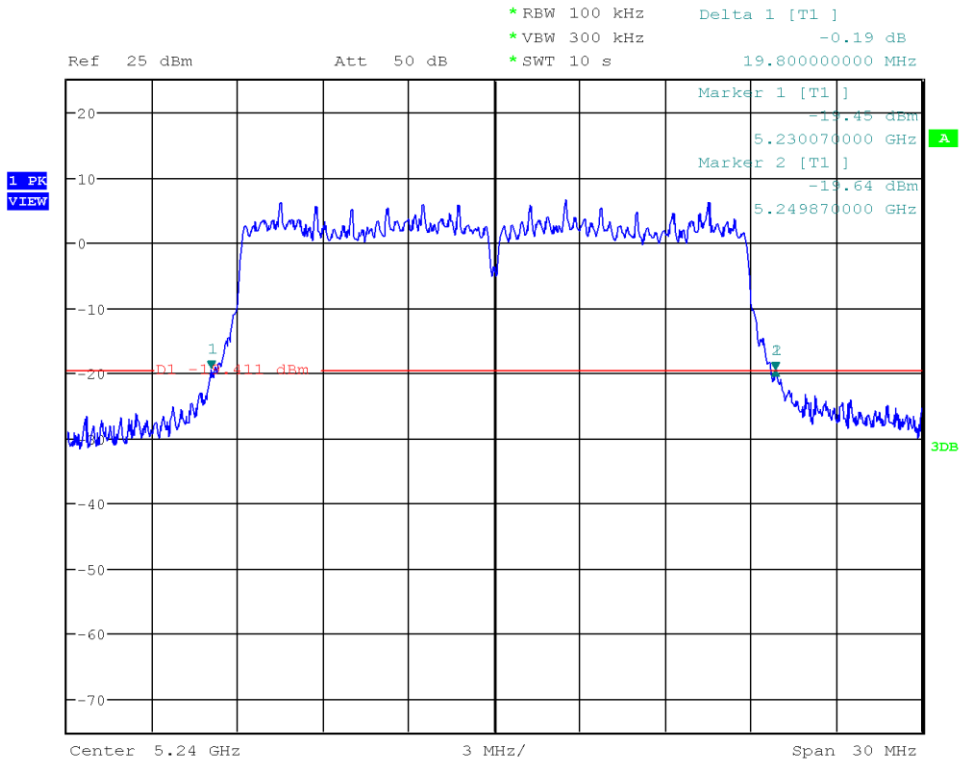
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 3
Lower Frequency [MHz]:	5190.190
Upper Frequency [MHz]:	5209.705
26 dB Bandwidth [MHz]:	19.515



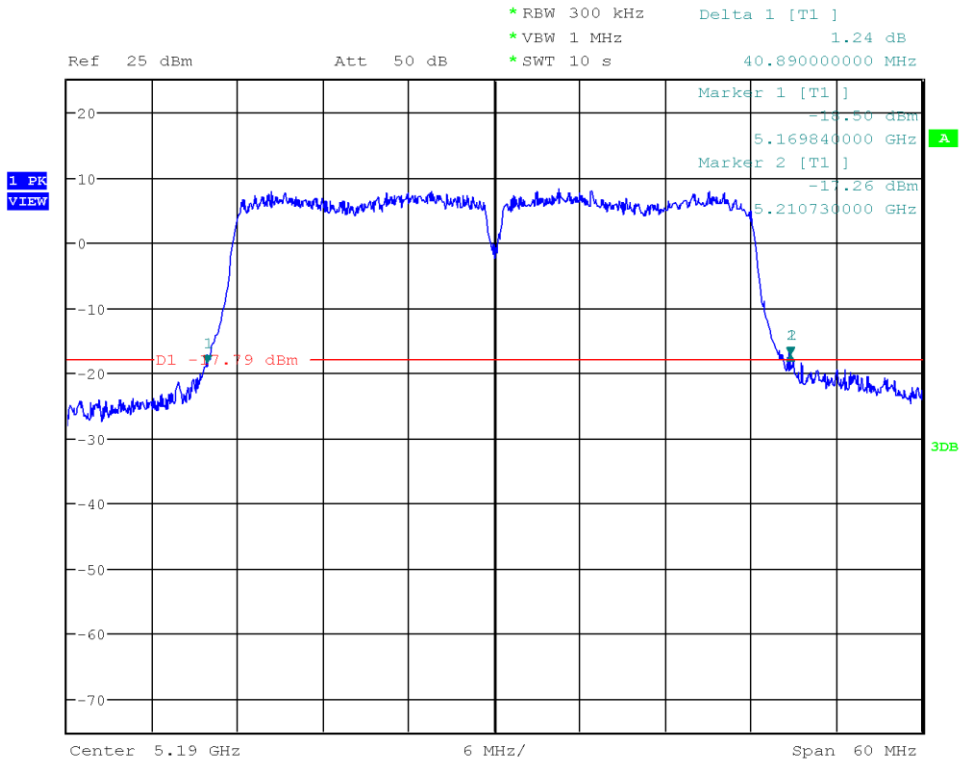
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 3
Lower Frequency [MHz]:	5230.070
Upper Frequency [MHz]:	5249.870
26 dB Bandwidth [MHz]:	19.800



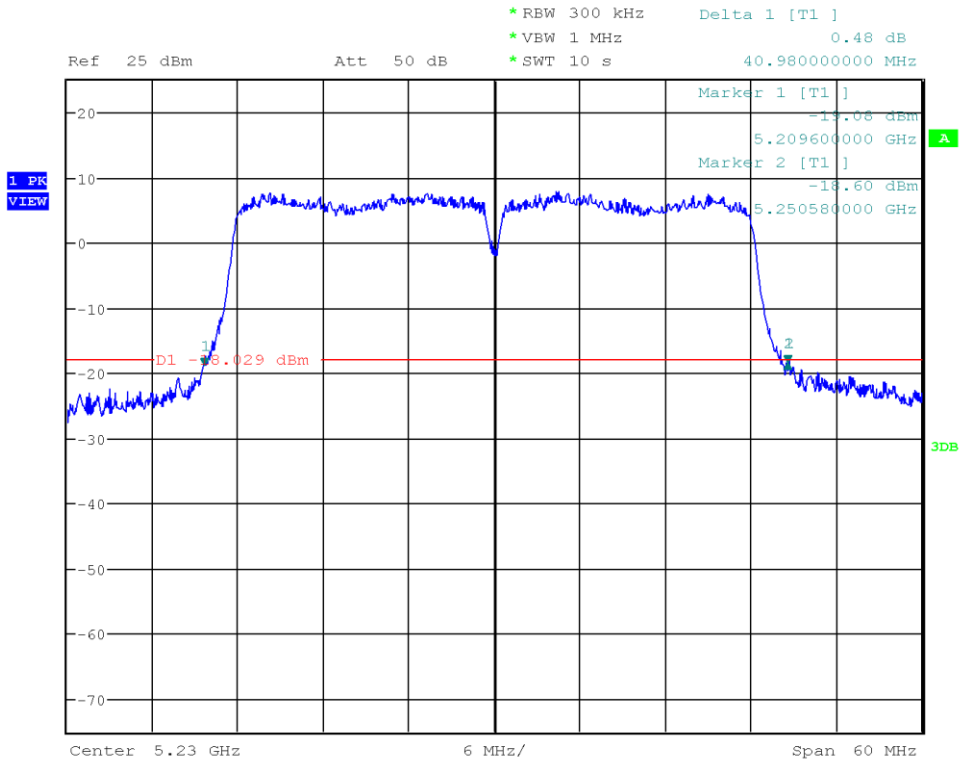
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 38, 5190 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5169.840
Upper Frequency [MHz]:	5210.730
26 dB Bandwidth [MHz]:	40.890



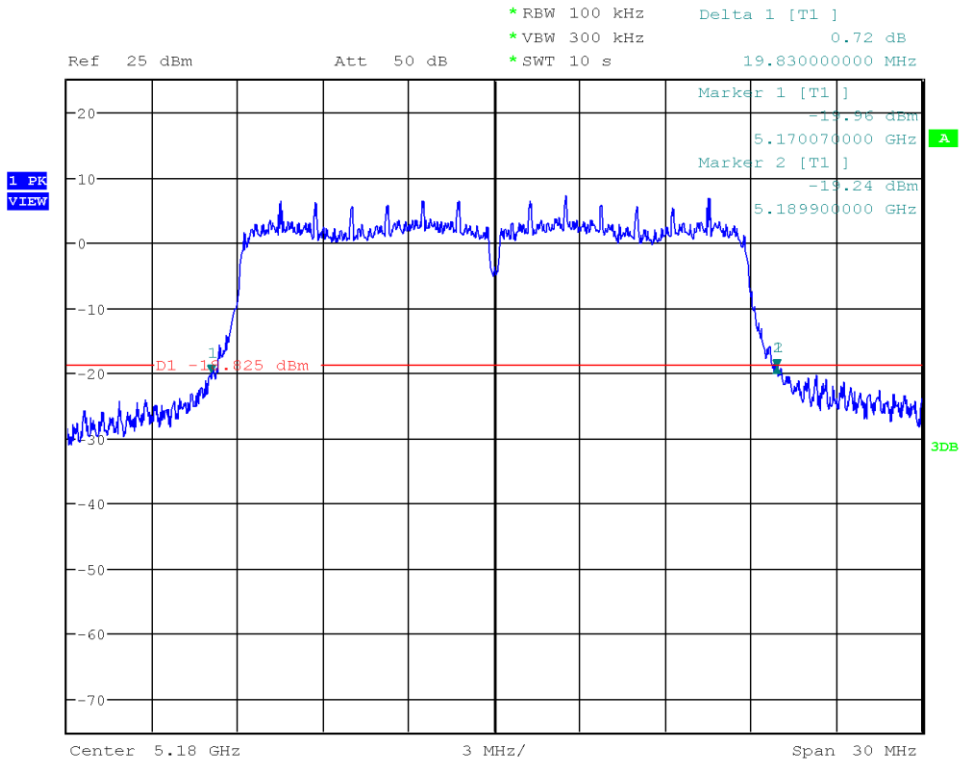
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 46, 5230 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5209.600
Upper Frequency [MHz]:	5250.580
26 dB Bandwidth [MHz]:	40.980



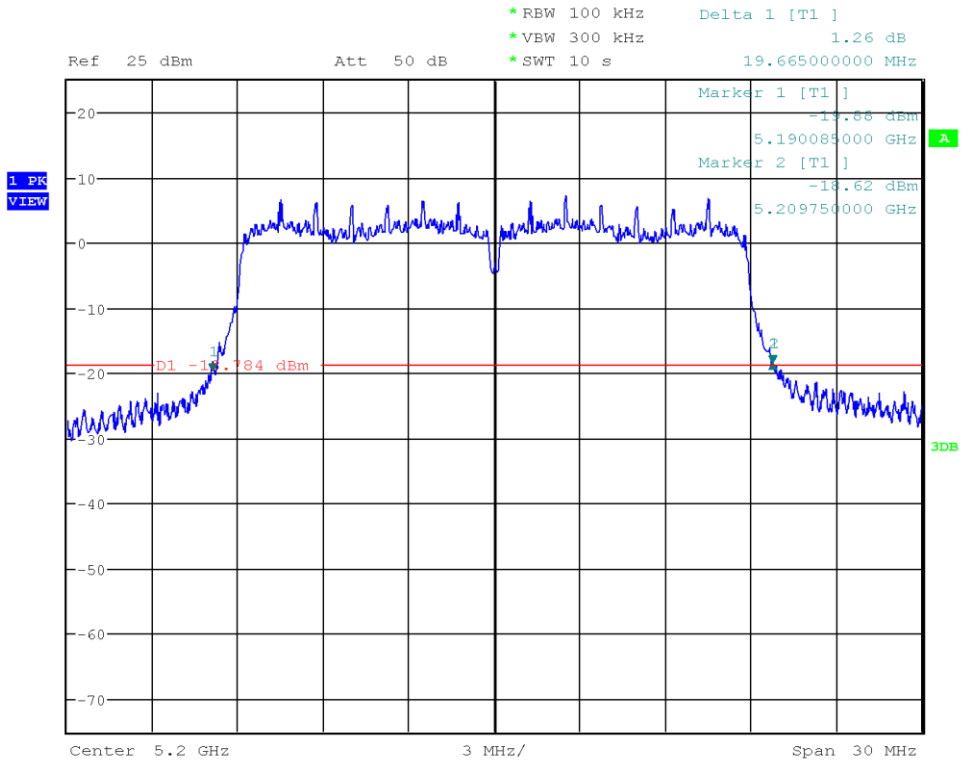
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5170.070
Upper Frequency [MHz]:	5189.900
26 dB Bandwidth [MHz]:	19.830



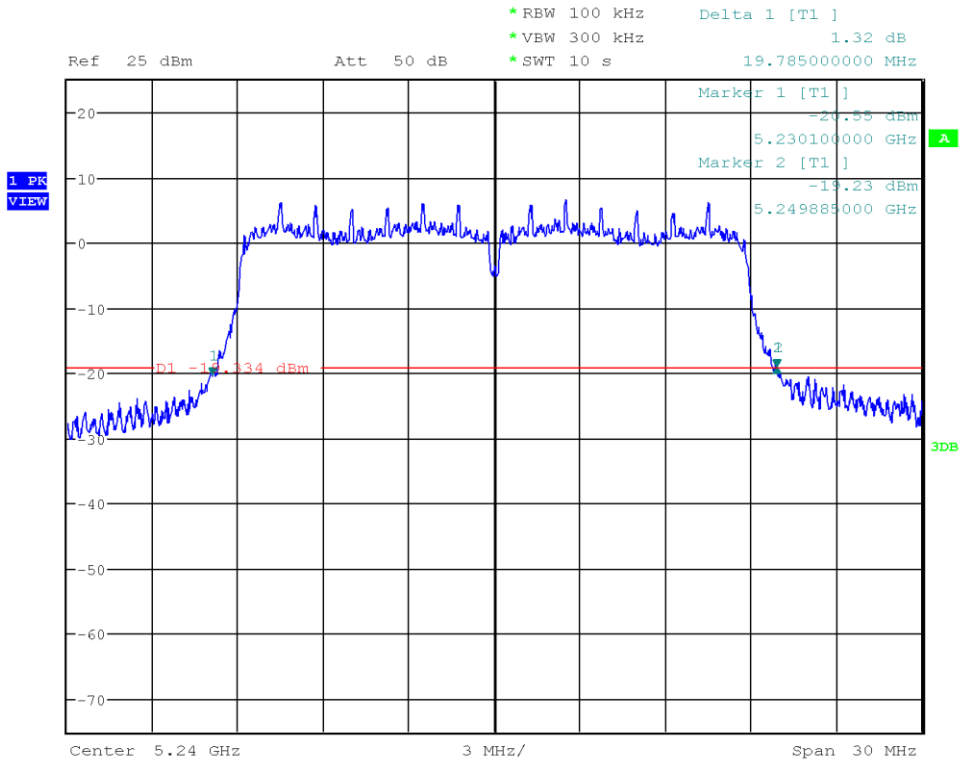
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5190.085
Upper Frequency [MHz]:	5209.750
26 dB Bandwidth [MHz]:	19.665



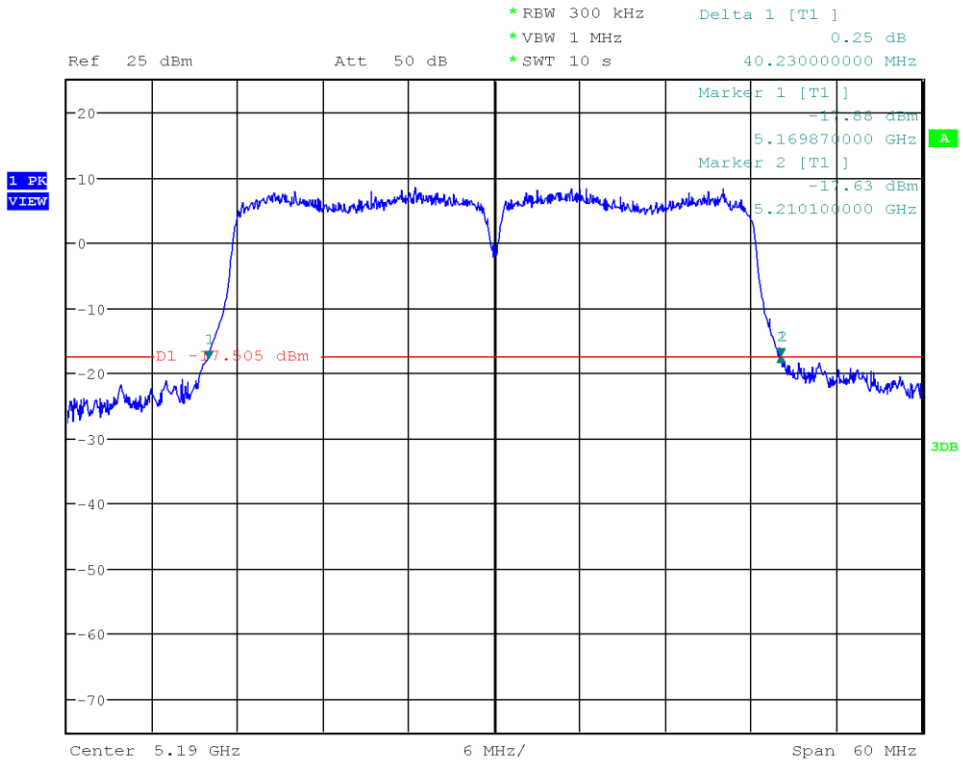
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 0
Lower Frequency [MHz]:	5230.100
Upper Frequency [MHz]:	5249.885
26 dB Bandwidth [MHz]:	19.785



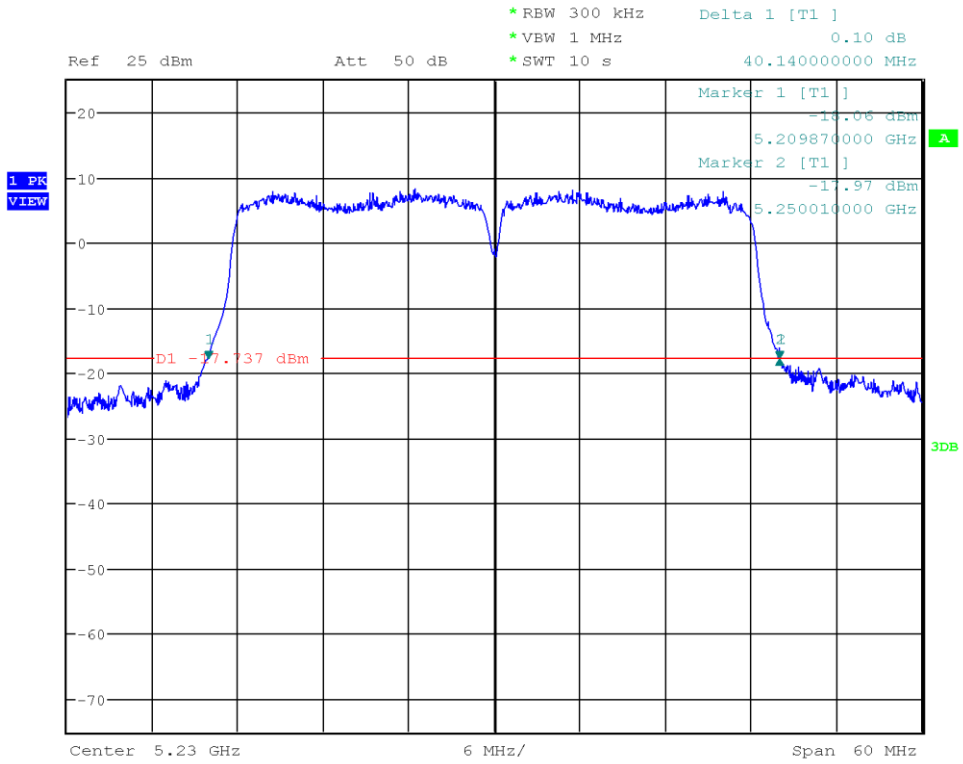
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 38, 5190 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 6
Lower Frequency [MHz]:	5169.870
Upper Frequency [MHz]:	5210.100
26 dB Bandwidth [MHz]:	40.230



26 dB Bandwidth

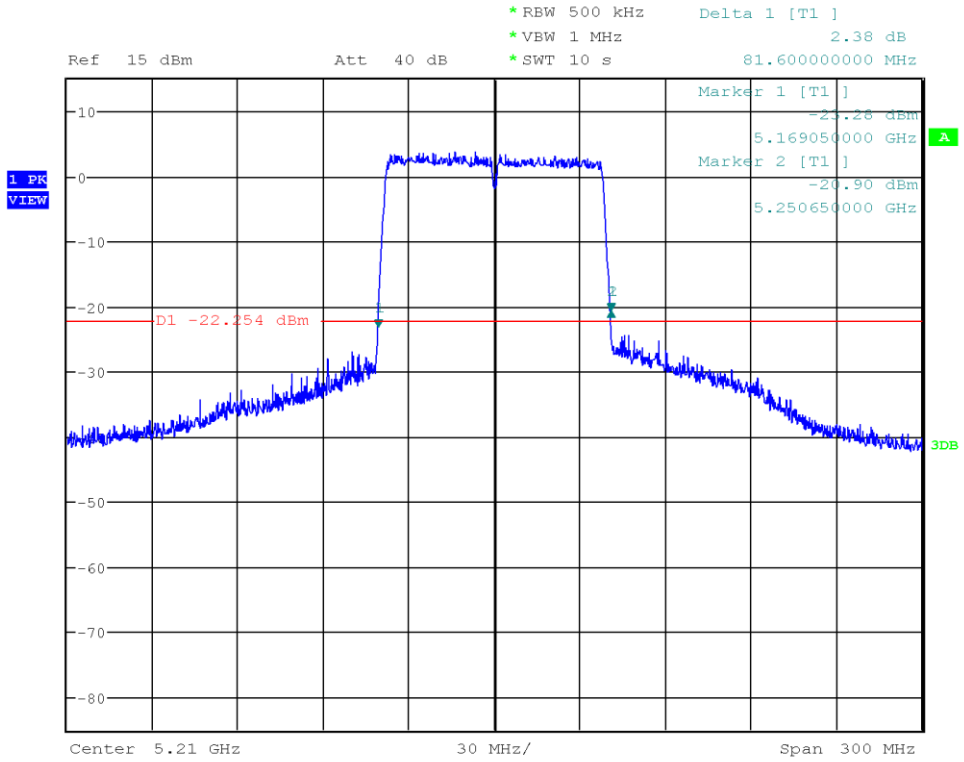
Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 46, 5230 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 6
Lower Frequency [MHz]:	5209.870
Upper Frequency [MHz]:	5250.010
26 dB Bandwidth [MHz]:	40.140



Date: 7.JUN.2023 10:18:51

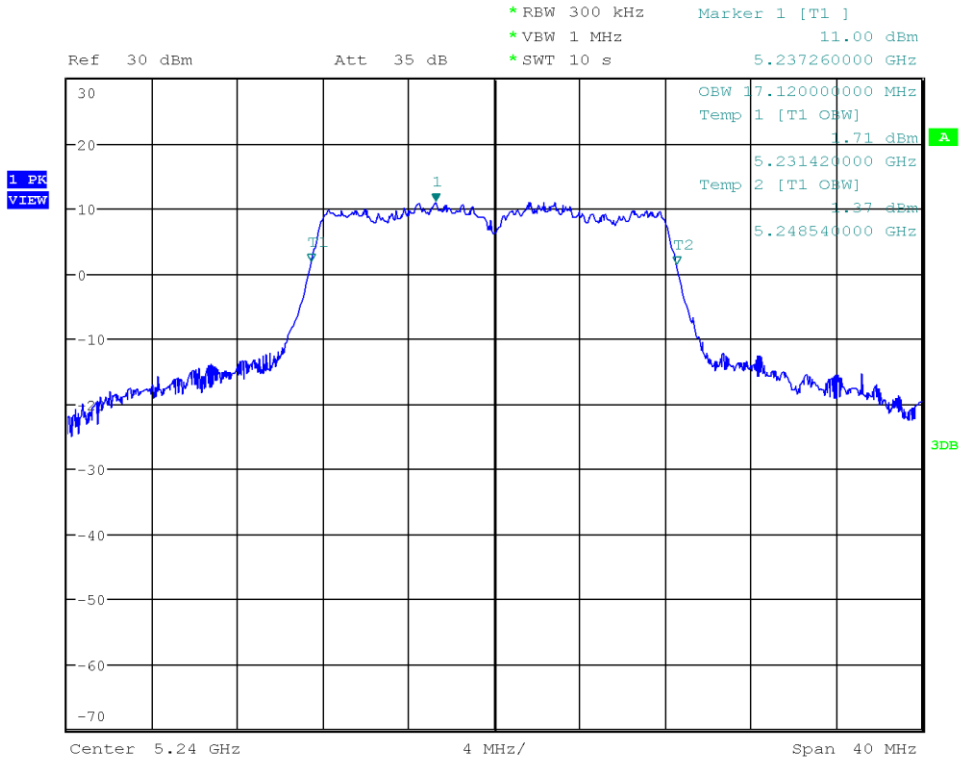
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 42, 5210 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT80, Bit rate= MCS 0
Lower Frequency [MHz]:	5169.050
Upper Frequency [MHz]:	5250.650
26 dB Bandwidth [MHz]:	81.600



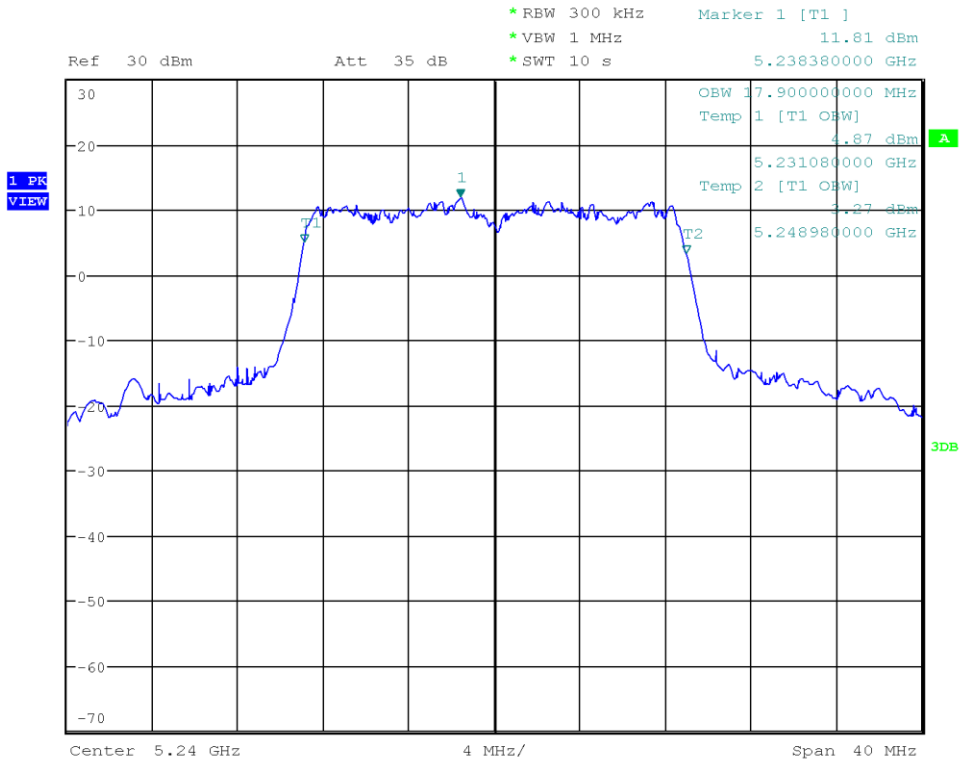
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11a, Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= 9 Mbps
Occ. Bandwidth Lower Edge [MHz]:	5231.420
Occ. Bandwidth Upper Edge [MHz]:	5248.540
Occupied Bandwidth [MHz]:	17.120



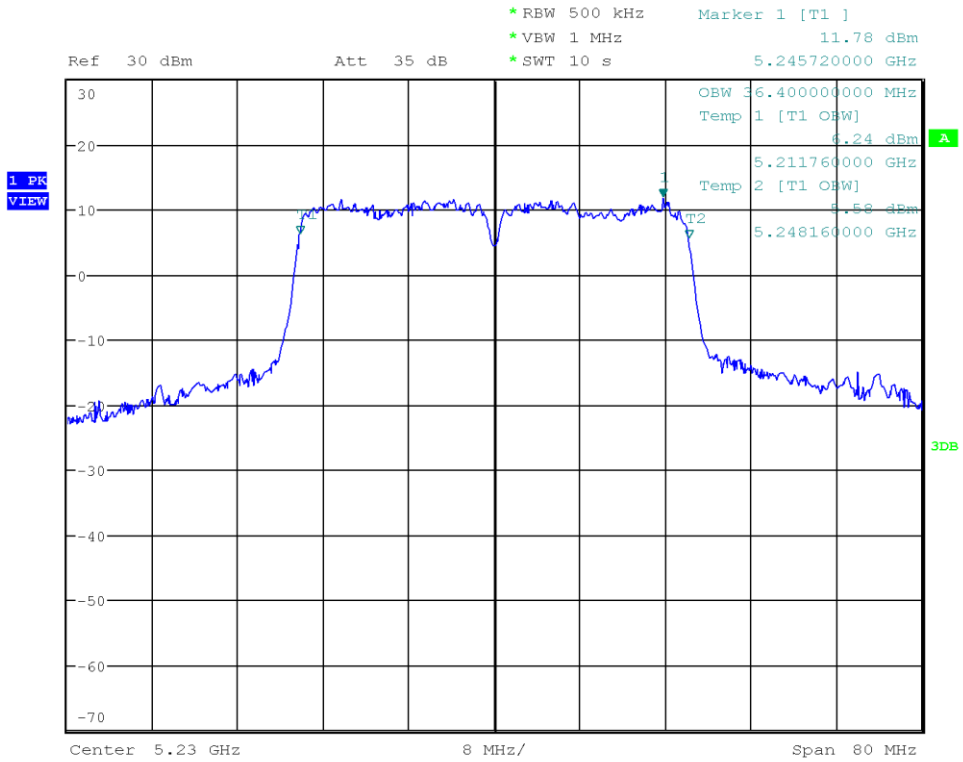
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11n (HT20), Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= MCS 3
Occ. Bandwidth Lower Edge [MHz]:	5231.080
Occ. Bandwidth Upper Edge [MHz]:	5248.980
Occupied Bandwidth [MHz]:	17.900



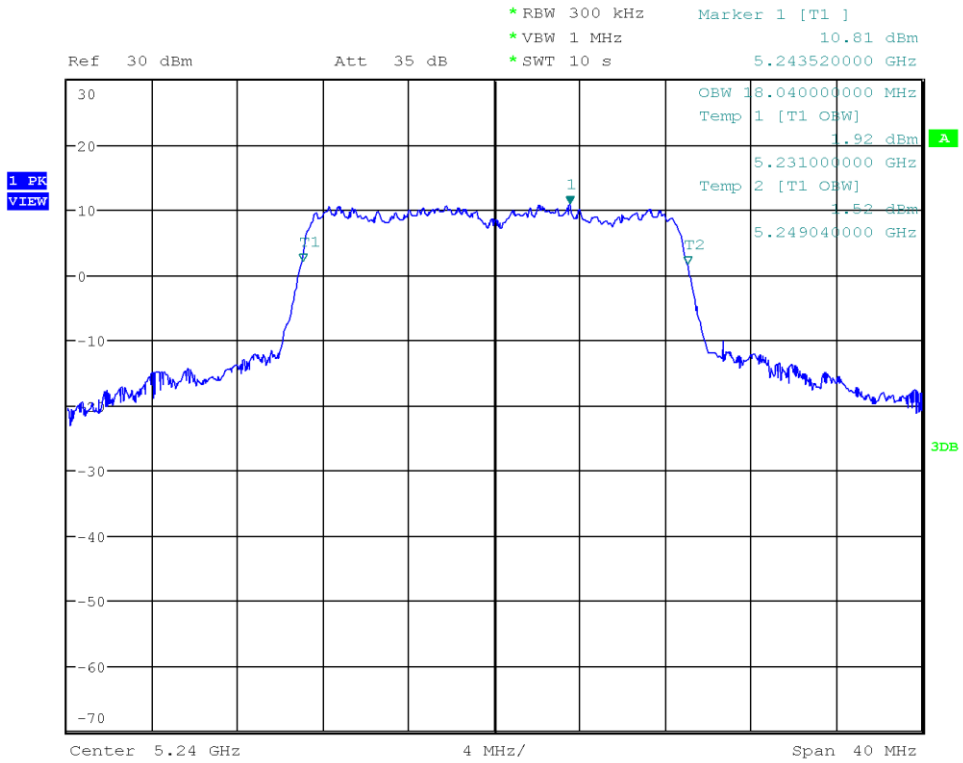
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11n (HT40), Channel: 46, 5230 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= MCS 5
Occ. Bandwidth Lower Edge [MHz]:	5211.760
Occ. Bandwidth Upper Edge [MHz]:	5248.160
Occupied Bandwidth [MHz]:	36.400



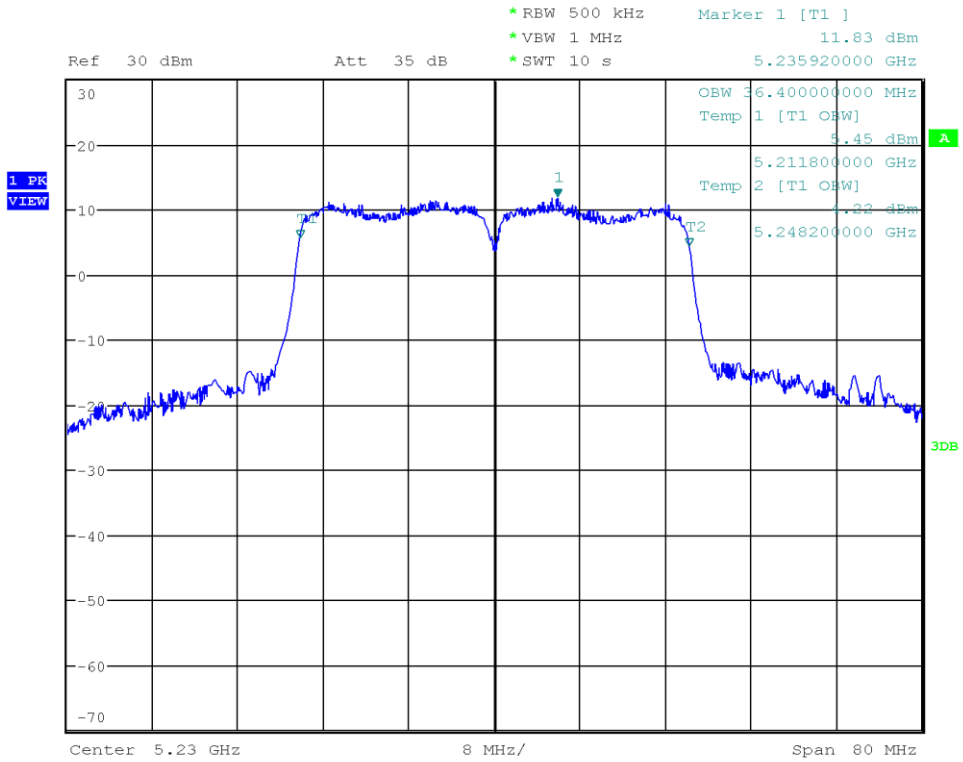
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= MCS 0
Occ. Bandwidth Lower Edge [MHz]:	5231.000
Occ. Bandwidth Upper Edge [MHz]:	5249.040
Occupied Bandwidth [MHz]:	18.040



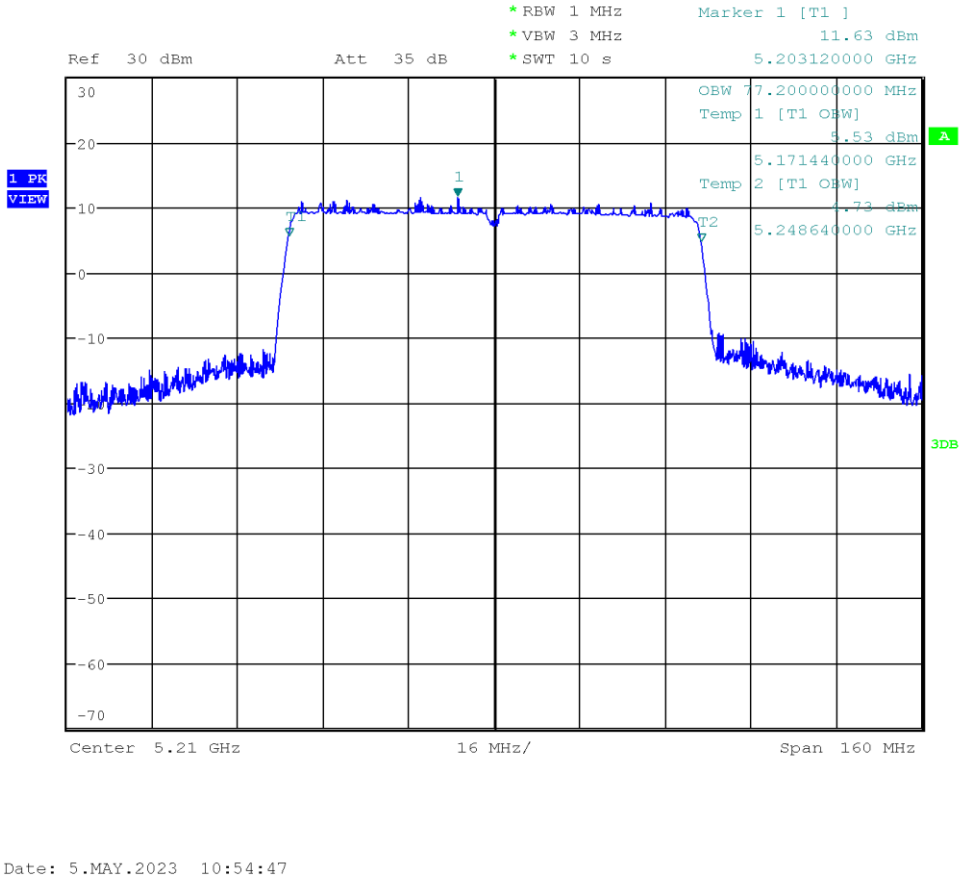
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 46, 5230 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= MCS 6
Occ. Bandwidth Lower Edge [MHz]:	5211.800
Occ. Bandwidth Upper Edge [MHz]:	5248.200
Occupied Bandwidth [MHz]:	36.400



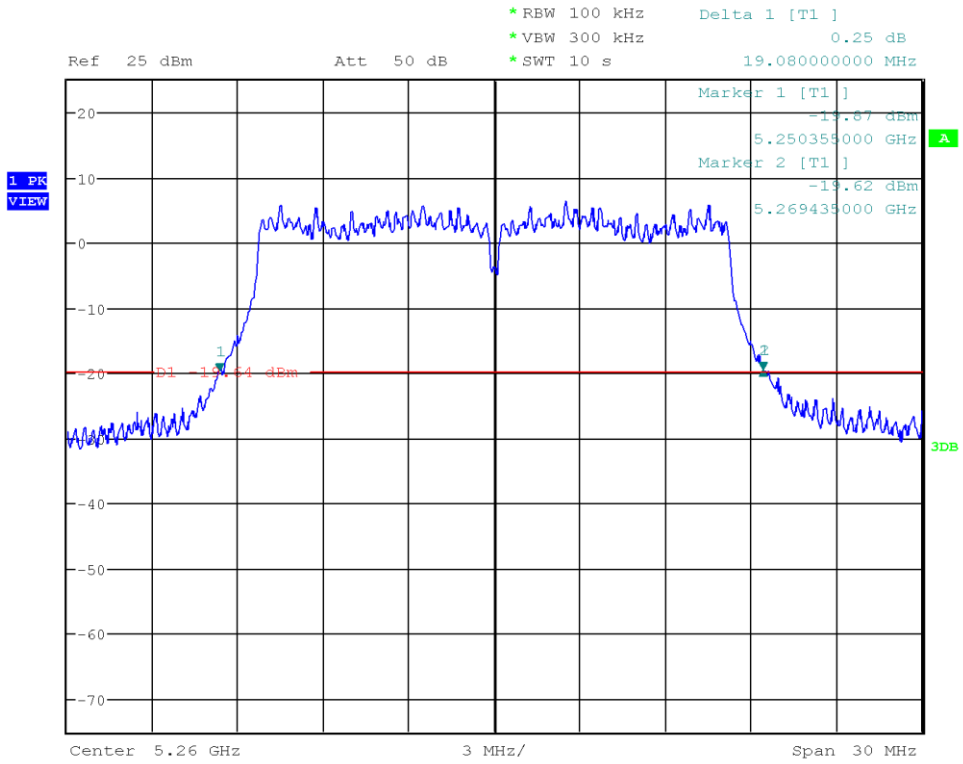
Occupied Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 42, 5210 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Dhamia Almozani
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-05-05
Antenna Port:	1
Note:	Bit rate= MCS 0
Occ. Bandwidth Lower Edge [MHz]:	5171.440
Occ. Bandwidth Upper Edge [MHz]:	5248.640
Occupied Bandwidth [MHz]:	77.200



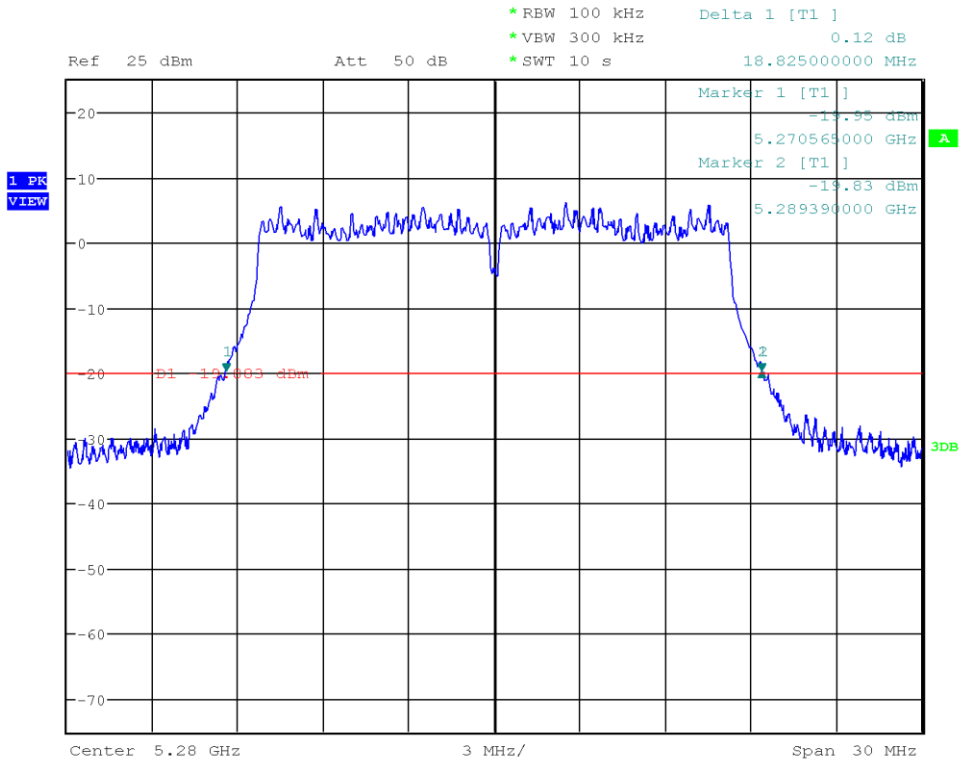
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 54 Mbps
Lower Frequency [MHz]:	5250.355
Upper Frequency [MHz]:	5269.435
26 dB Bandwidth [MHz]:	19.080



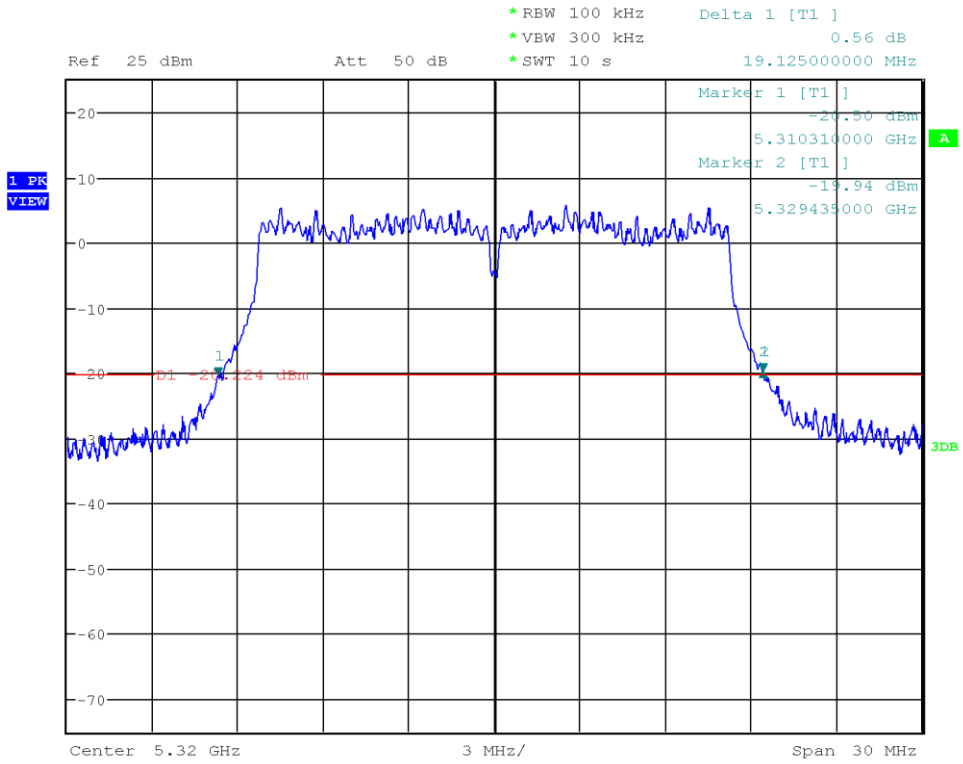
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 54 Mbps
Lower Frequency [MHz]:	5270.565
Upper Frequency [MHz]:	5289.390
26 dB Bandwidth [MHz]:	18.825



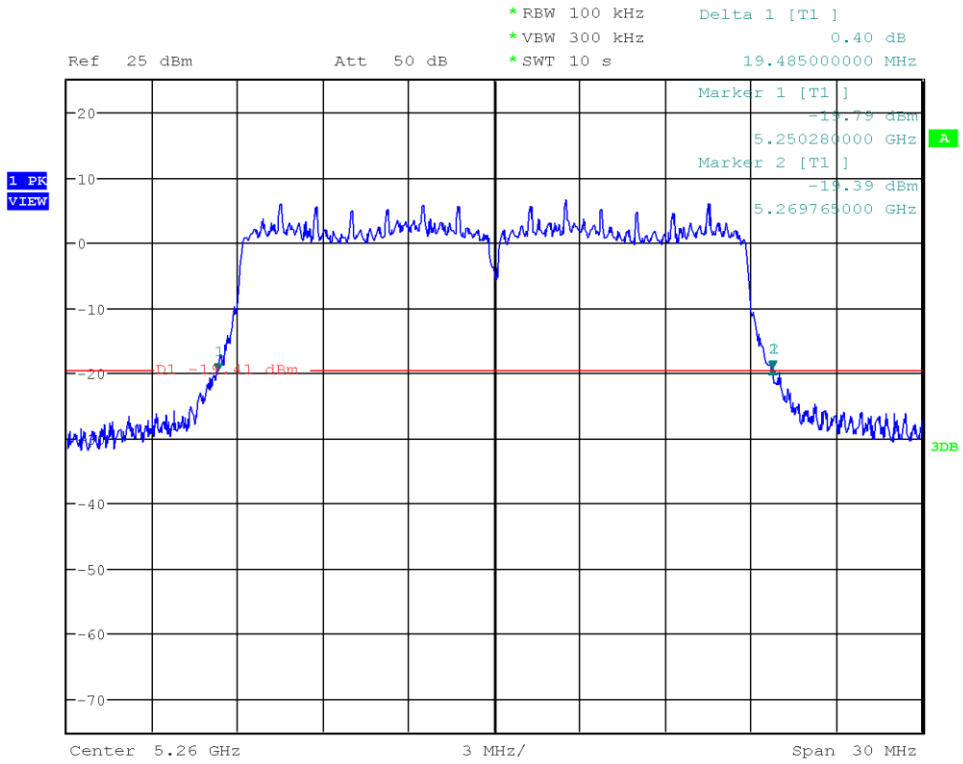
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 54 Mbps
Lower Frequency [MHz]:	5310.310
Upper Frequency [MHz]:	5329.435
26 dB Bandwidth [MHz]:	19.125



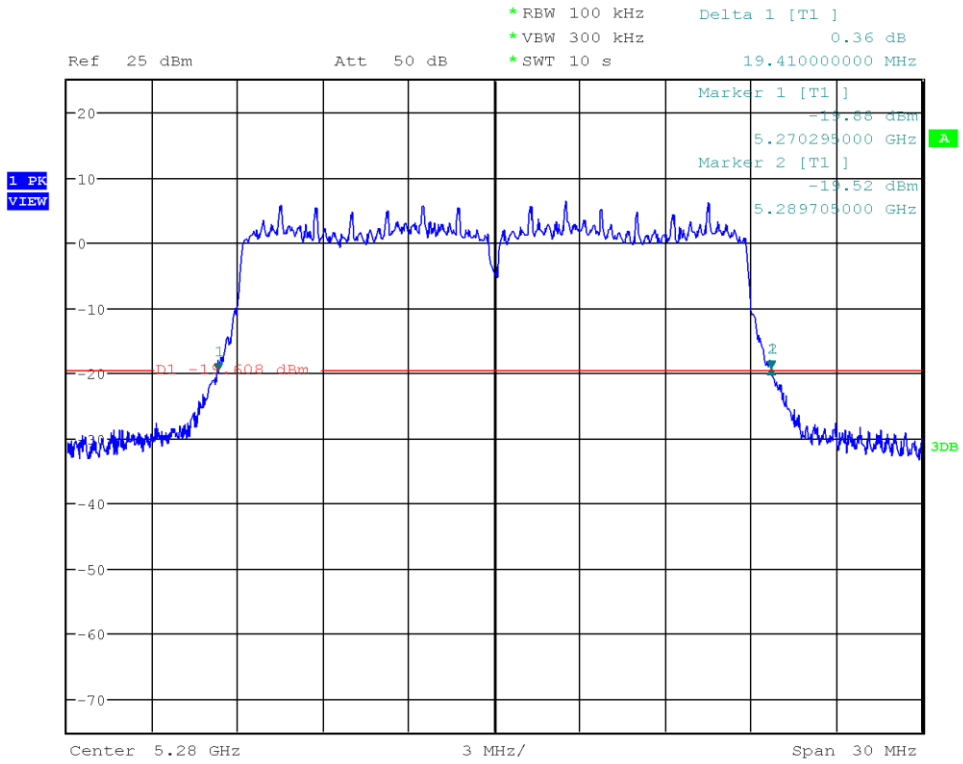
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 2
Lower Frequency [MHz]:	5250.280
Upper Frequency [MHz]:	5269.765
26 dB Bandwidth [MHz]:	19.485



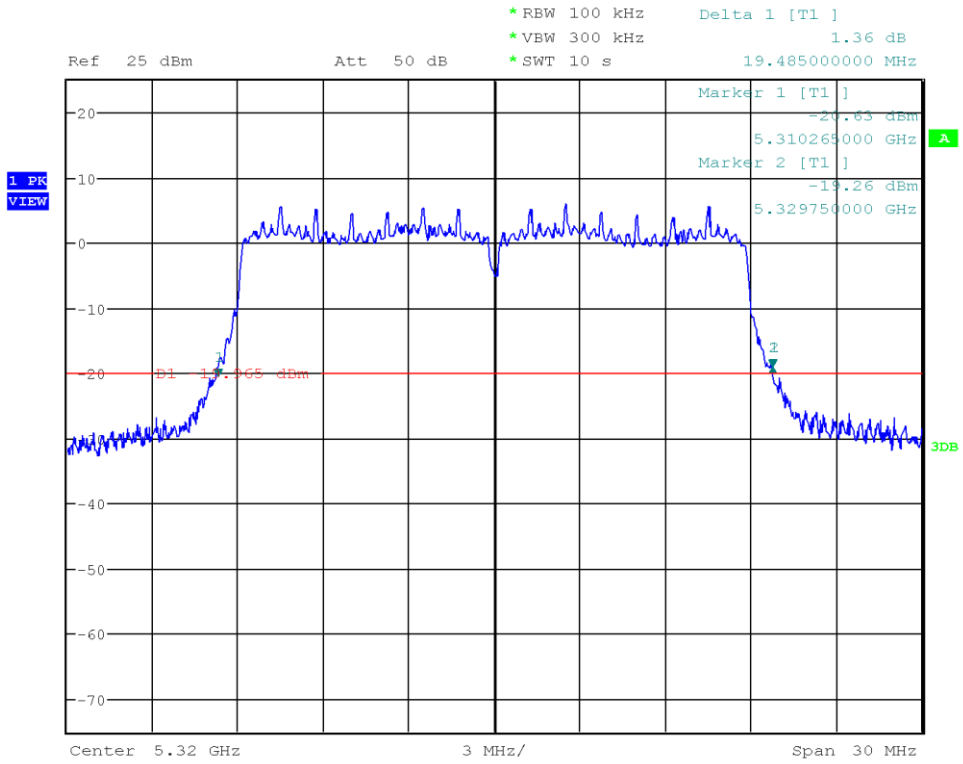
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 2
Lower Frequency [MHz]:	5270.295
Upper Frequency [MHz]:	5289.705
26 dB Bandwidth [MHz]:	19.410



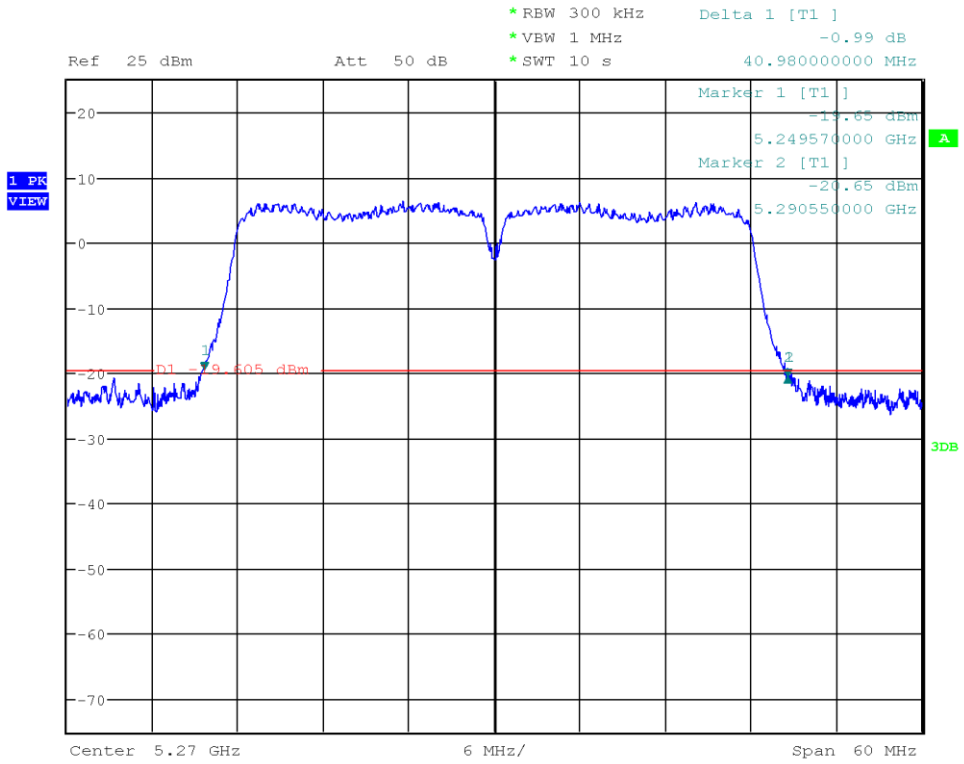
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 2
Lower Frequency [MHz]:	5310.265
Upper Frequency [MHz]:	5329.750
26 dB Bandwidth [MHz]:	19.485



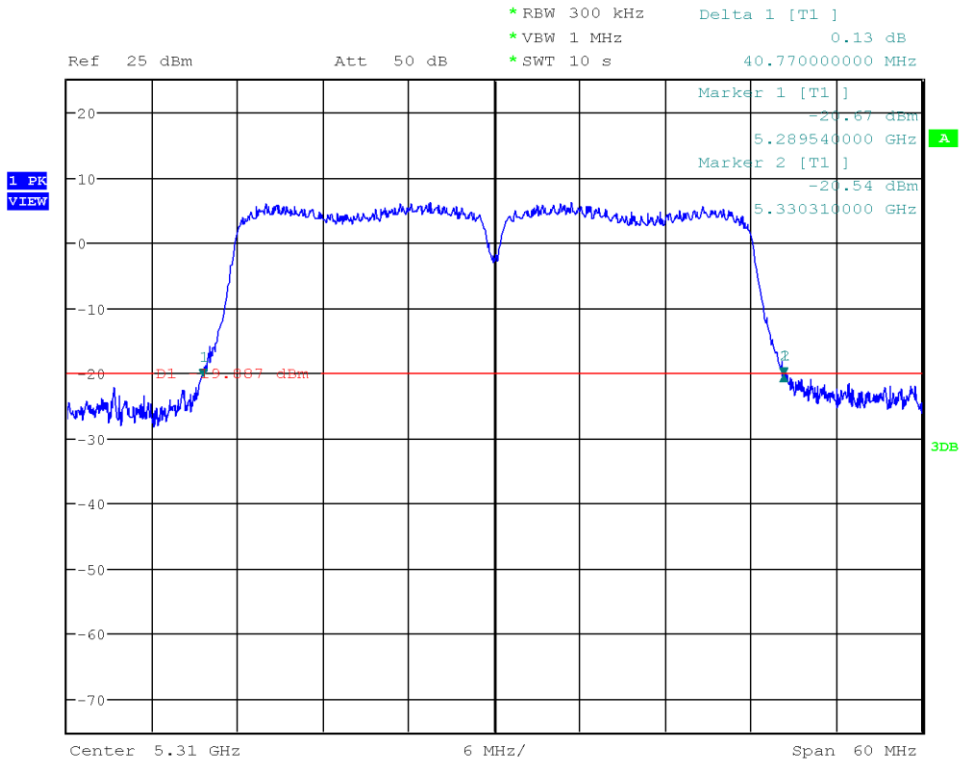
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 54, 5270 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5249.570
Upper Frequency [MHz]:	5290.550
26 dB Bandwidth [MHz]:	40.980



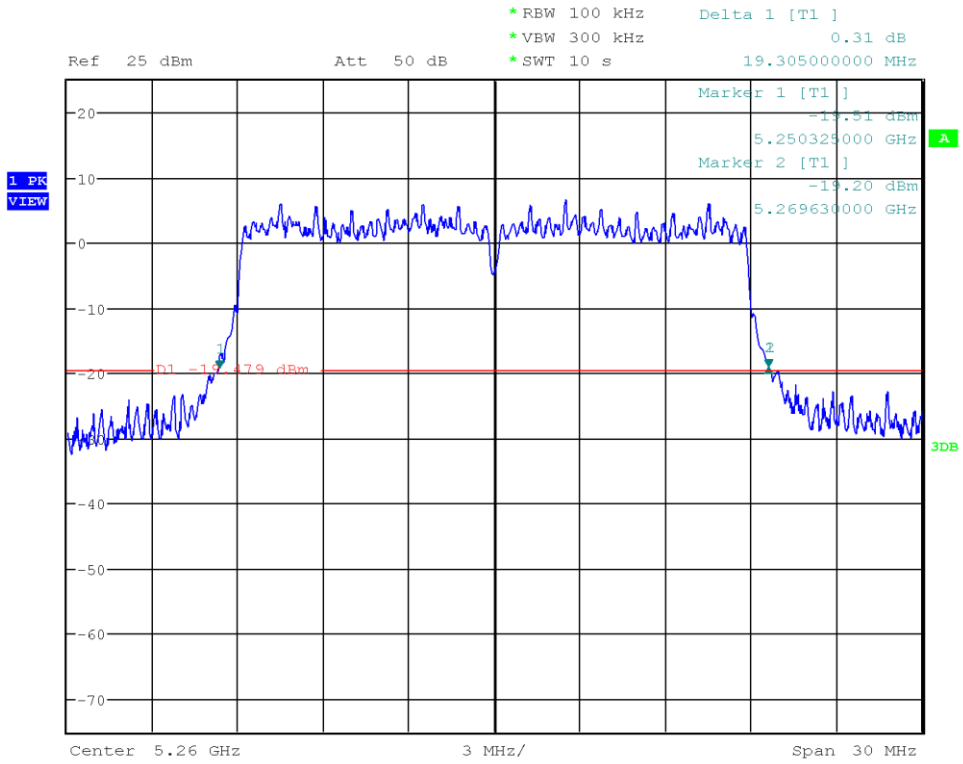
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 62, 5310 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5289.540
Upper Frequency [MHz]:	5330.310
26 dB Bandwidth [MHz]:	40.770



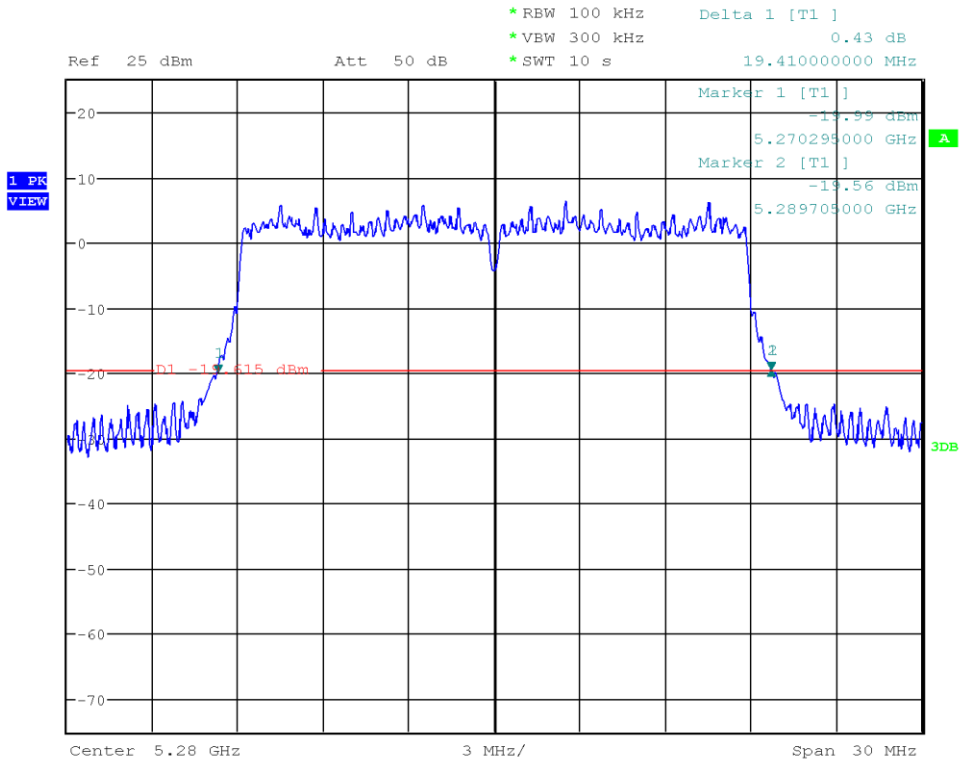
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 7
Lower Frequency [MHz]:	5250.325
Upper Frequency [MHz]:	5269.630
26 dB Bandwidth [MHz]:	19.305



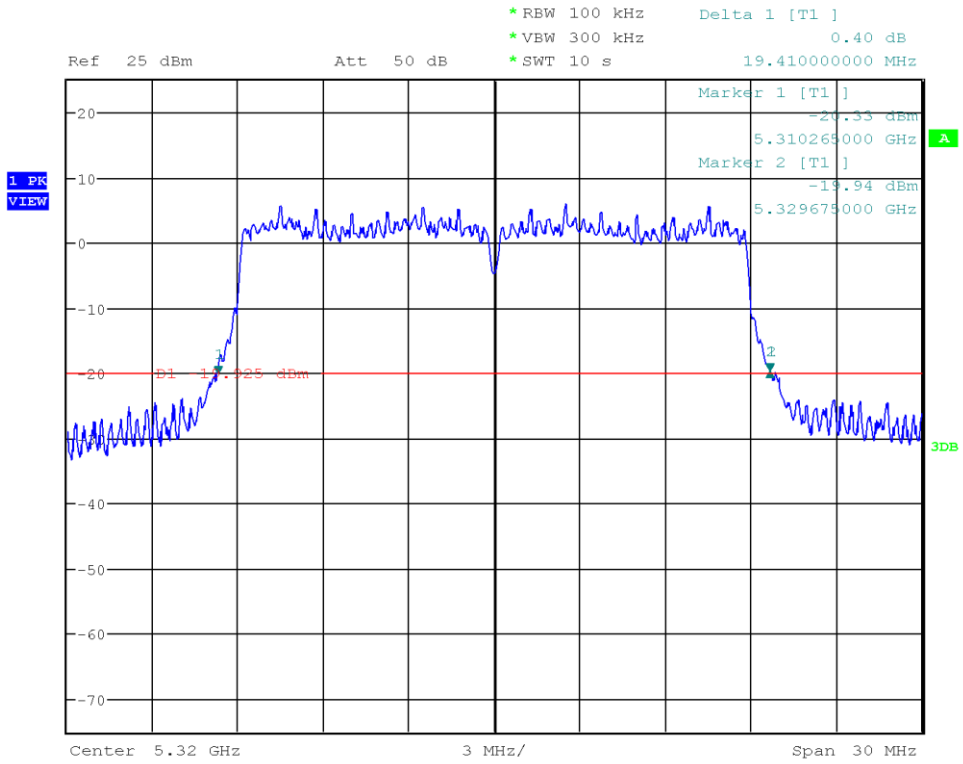
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 7
Lower Frequency [MHz]:	5270.295
Upper Frequency [MHz]:	5289.705
26 dB Bandwidth [MHz]:	19.410



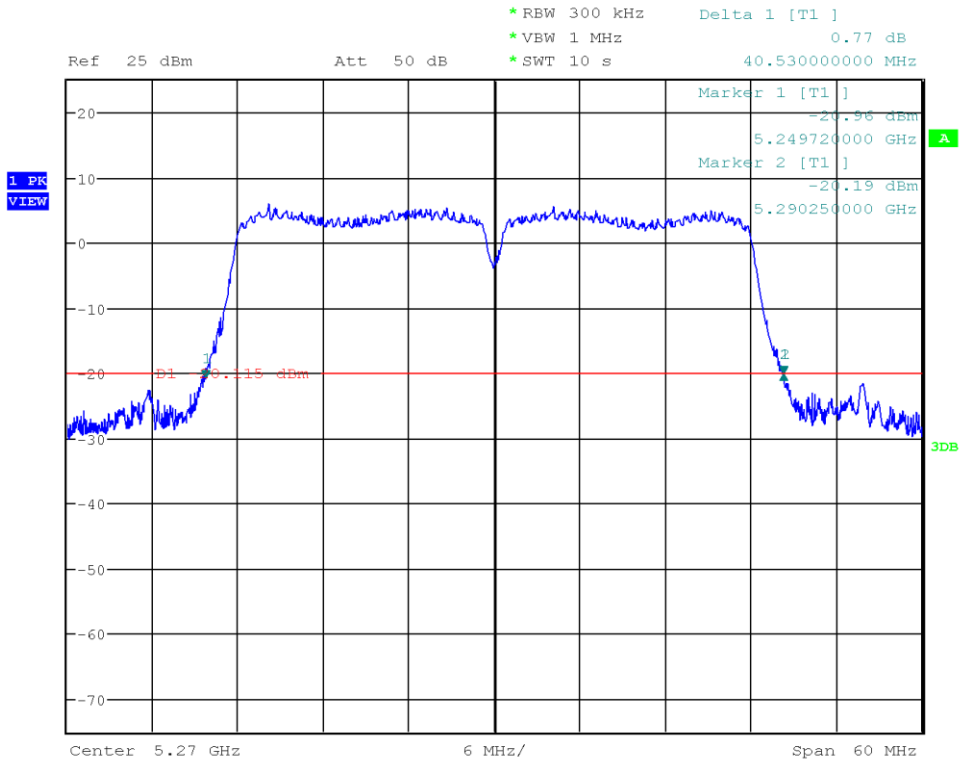
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 7
Lower Frequency [MHz]:	5310.265
Upper Frequency [MHz]:	5329.675
26 dB Bandwidth [MHz]:	19.410



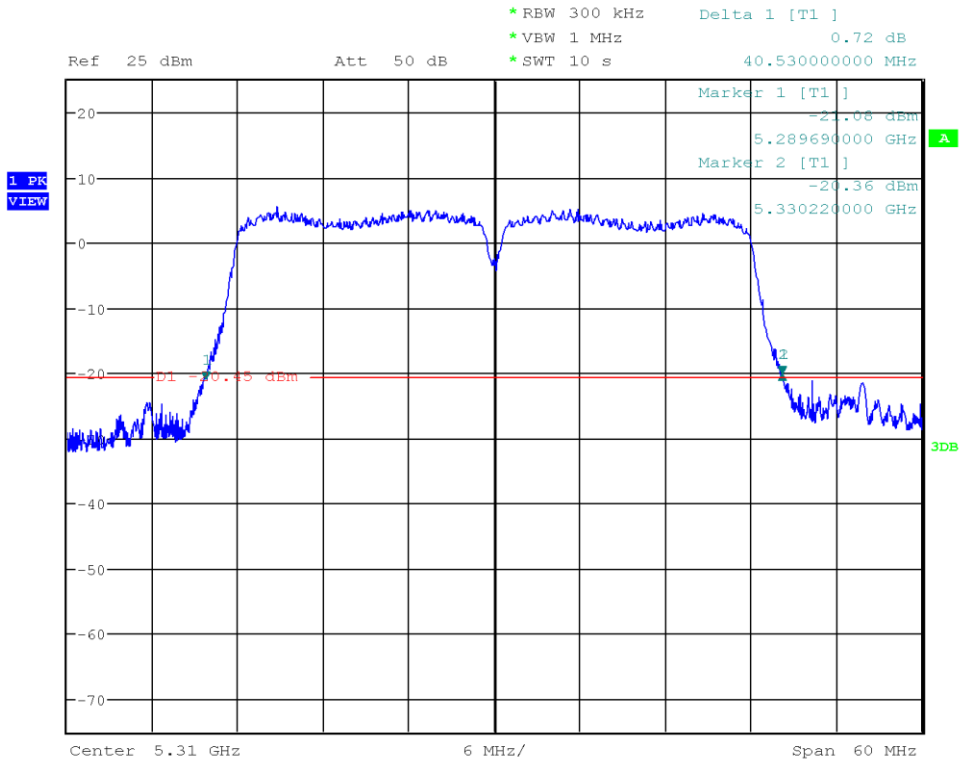
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 54, 5270 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5249.720
Upper Frequency [MHz]:	5290.250
26 dB Bandwidth [MHz]:	40.530



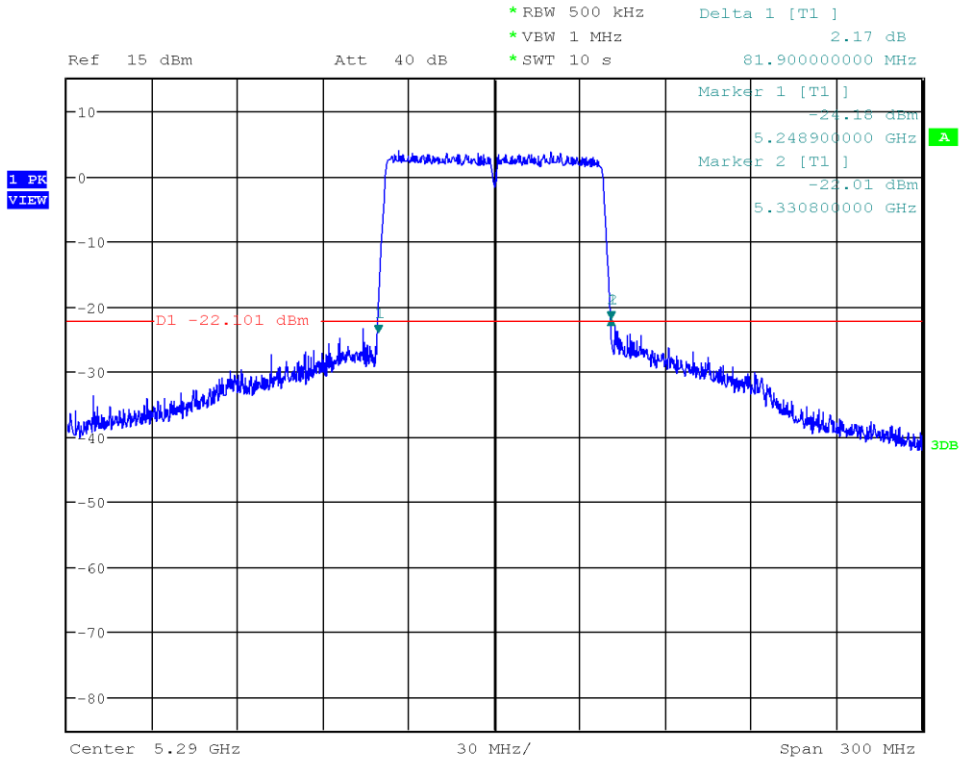
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 62, 5310 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 0
Lower Frequency [MHz]:	5289.690
Upper Frequency [MHz]:	5330.220
26 dB Bandwidth [MHz]:	40.530



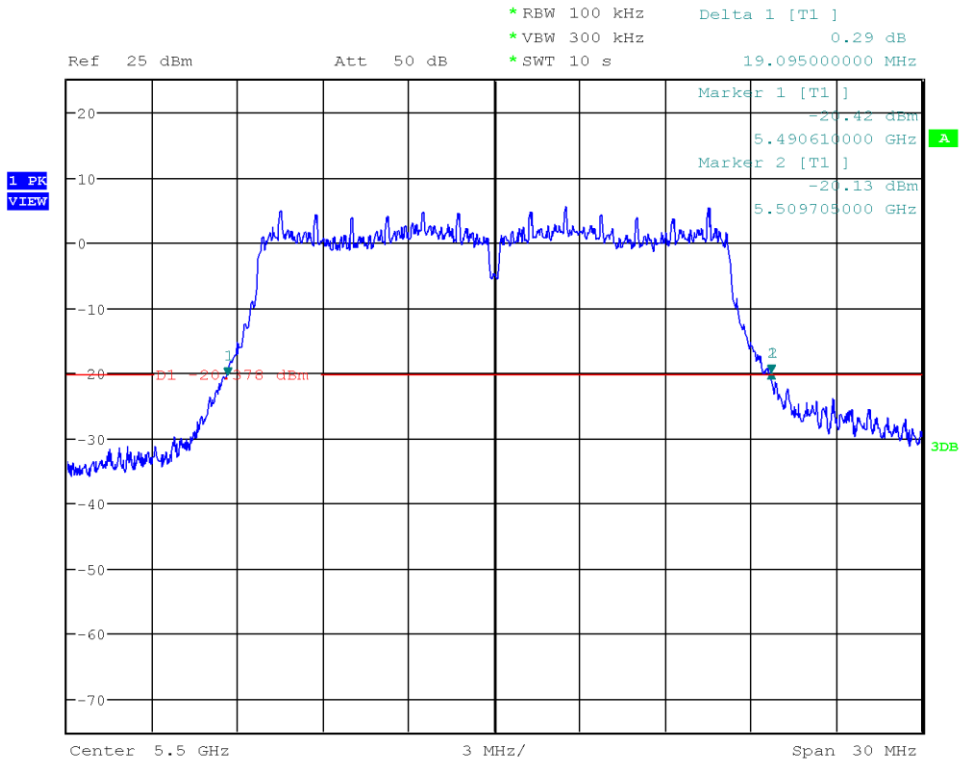
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 58, 5290 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT80, Bit rate= MCS 0
Lower Frequency [MHz]:	5248.900
Upper Frequency [MHz]:	5330.800
26 dB Bandwidth [MHz]:	81.900



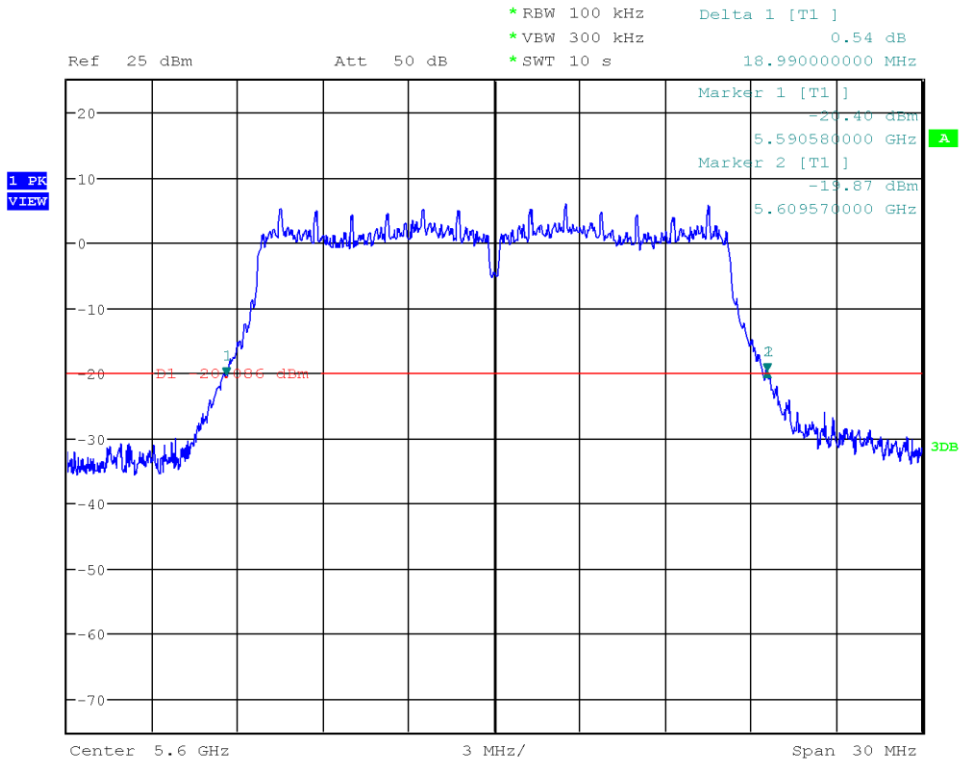
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5490.610
Upper Frequency [MHz]:	5509.705
26 dB Bandwidth [MHz]:	19.095



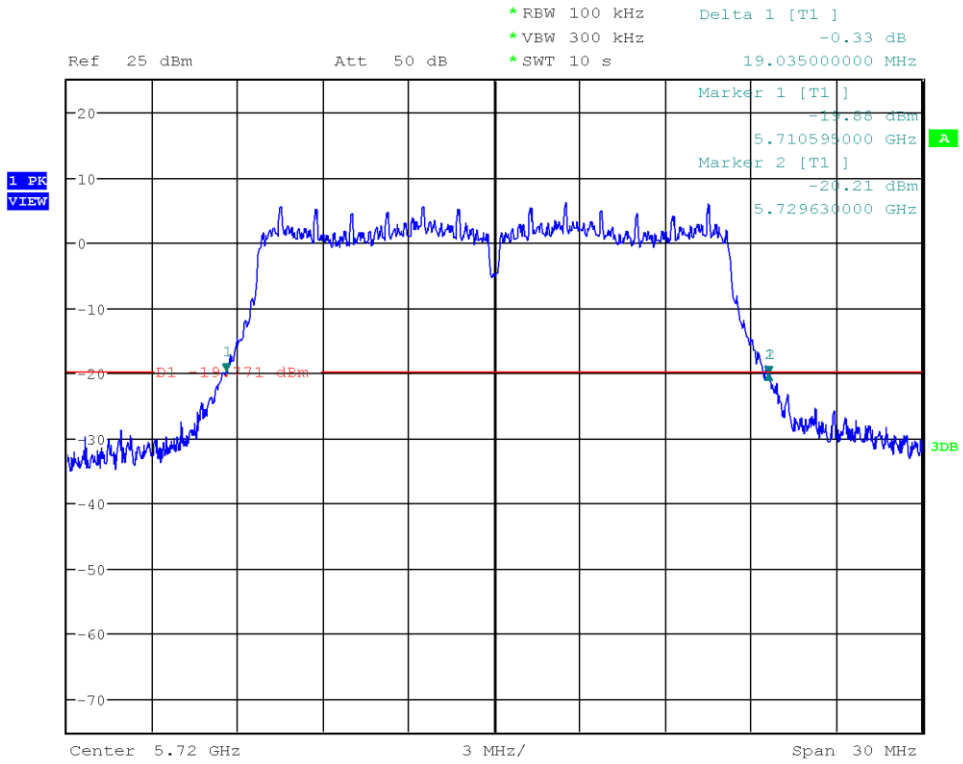
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5590.580
Upper Frequency [MHz]:	5609.570
26 dB Bandwidth [MHz]:	18.990



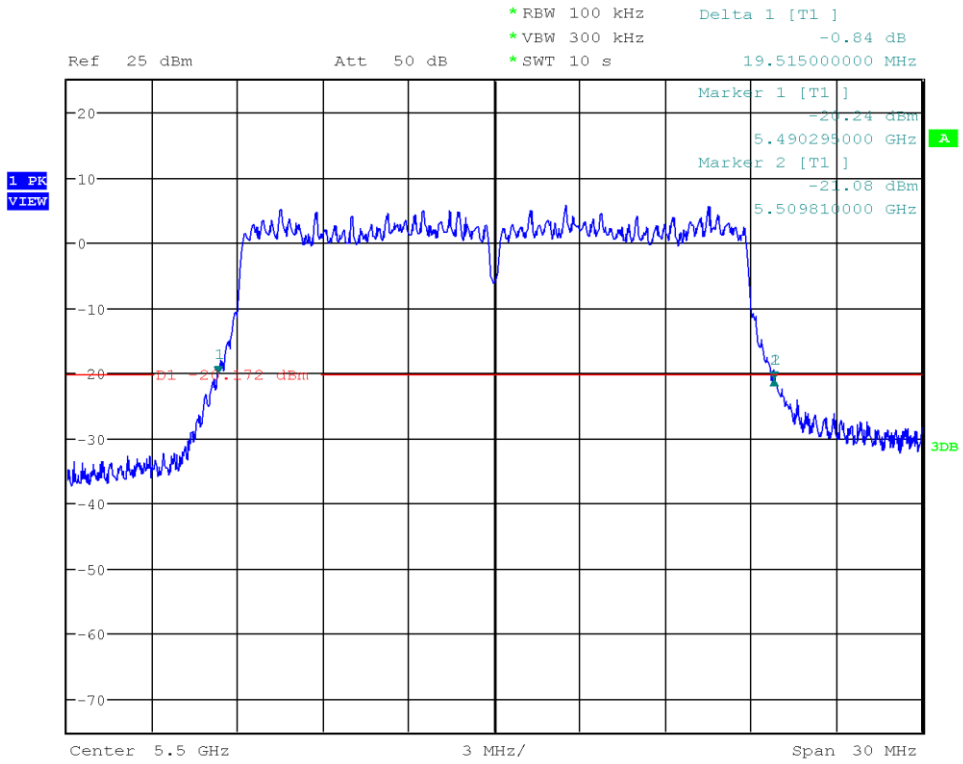
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5710.595
Upper Frequency [MHz]:	5729.630
26 dB Bandwidth [MHz]:	19.035



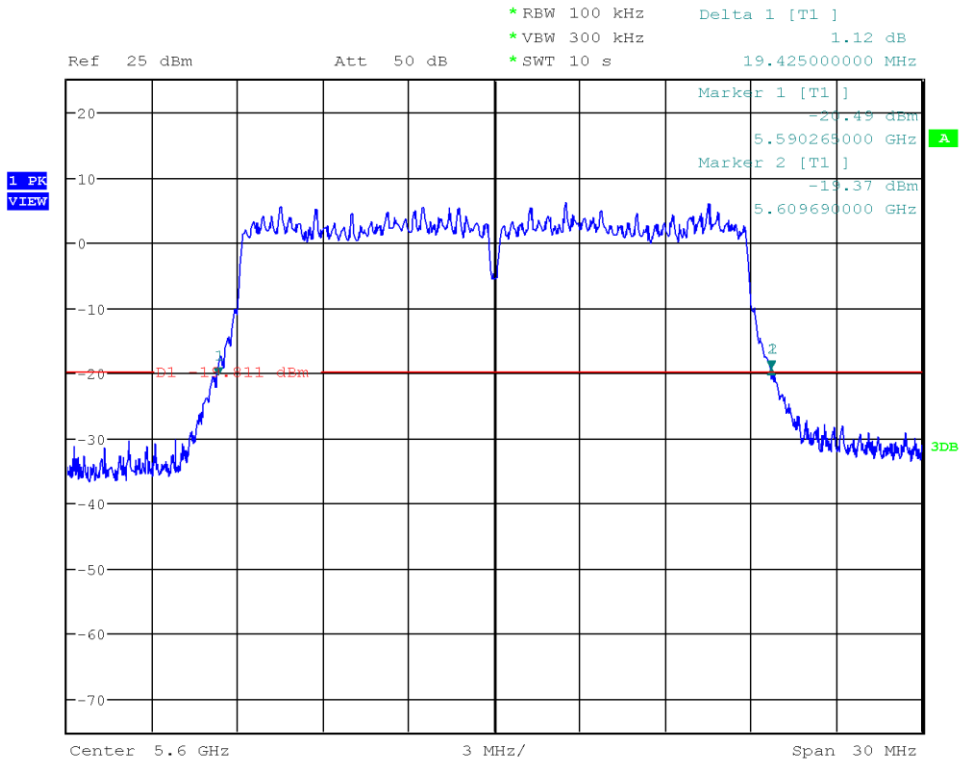
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 6
Lower Frequency [MHz]:	5490.295
Upper Frequency [MHz]:	5509.810
26 dB Bandwidth [MHz]:	19.515



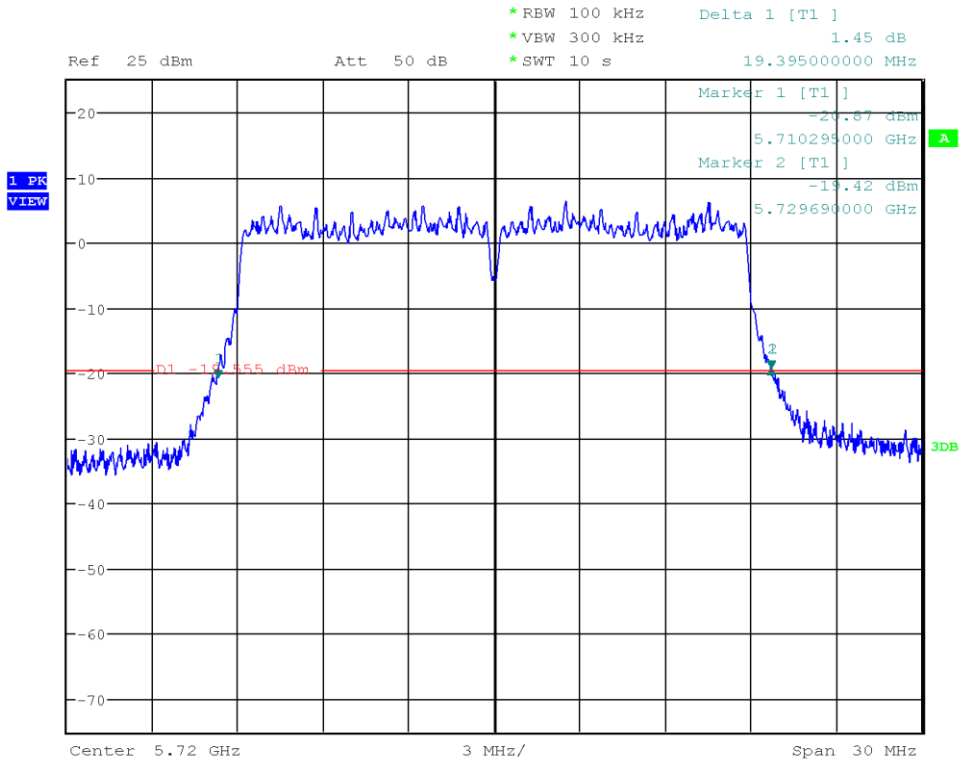
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 6
Lower Frequency [MHz]:	5590.265
Upper Frequency [MHz]:	5609.690
26 dB Bandwidth [MHz]:	19.425



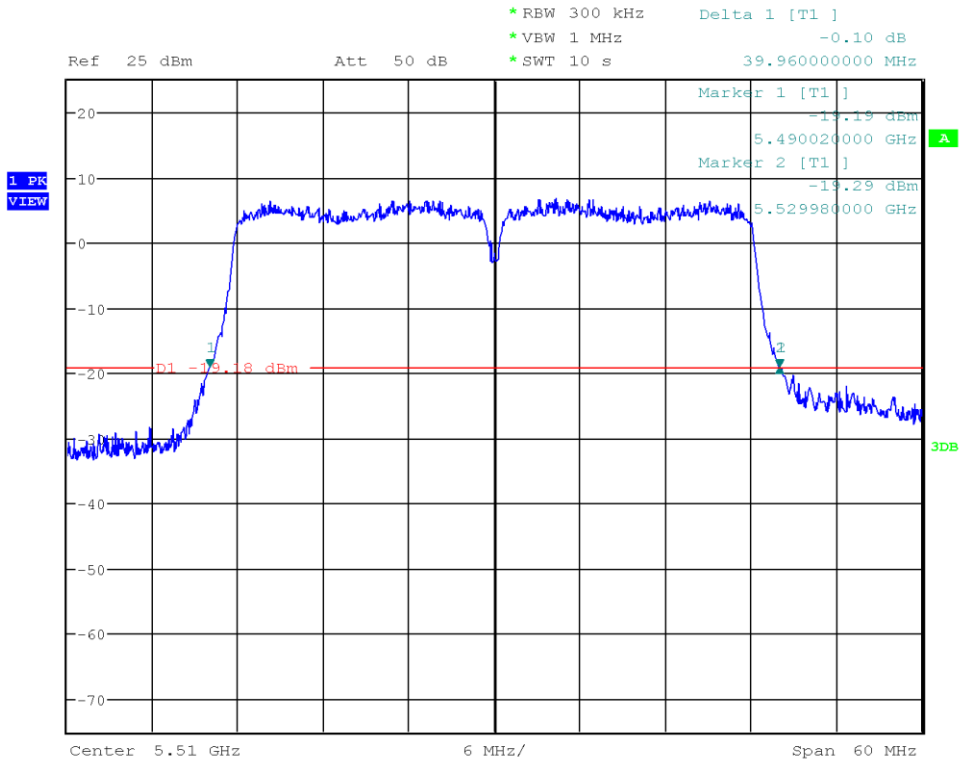
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT20), Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT20, Bit rate= MCS 6
Lower Frequency [MHz]:	5710.295
Upper Frequency [MHz]:	5729.690
26 dB Bandwidth [MHz]:	19.395



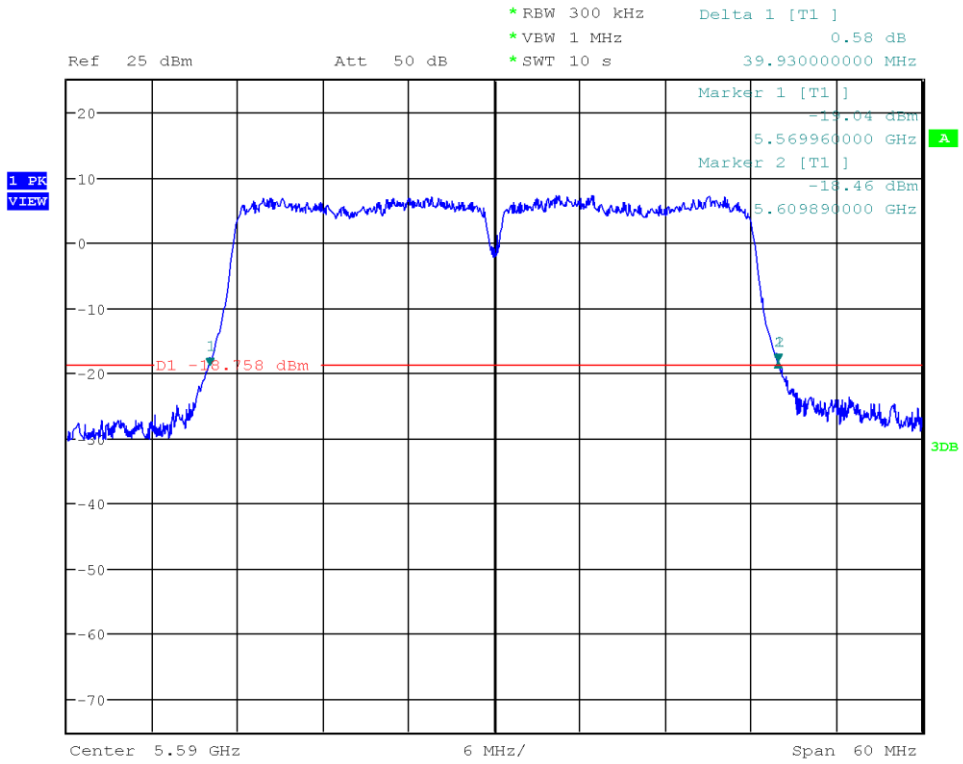
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 102, 5510 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5490.020
Upper Frequency [MHz]:	5529.980
26 dB Bandwidth [MHz]:	39.960



26 dB Bandwidth

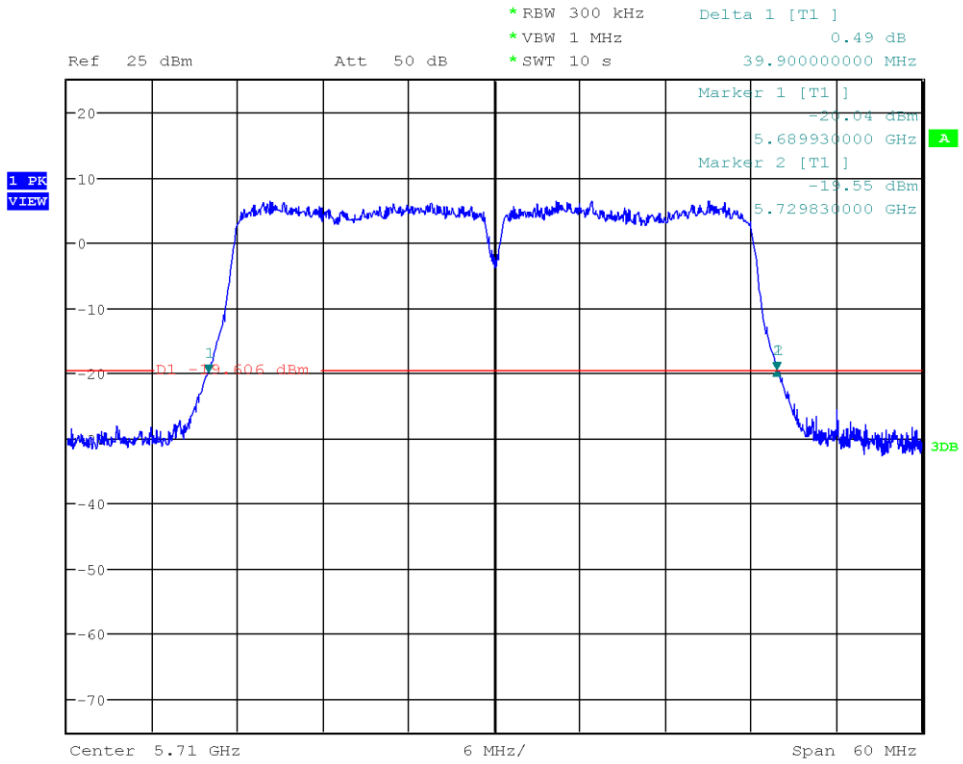
Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 118, 5590 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5569.960
Upper Frequency [MHz]:	5609.890
26 dB Bandwidth [MHz]:	39.930



Date: 7.JUN.2023 11:42:44

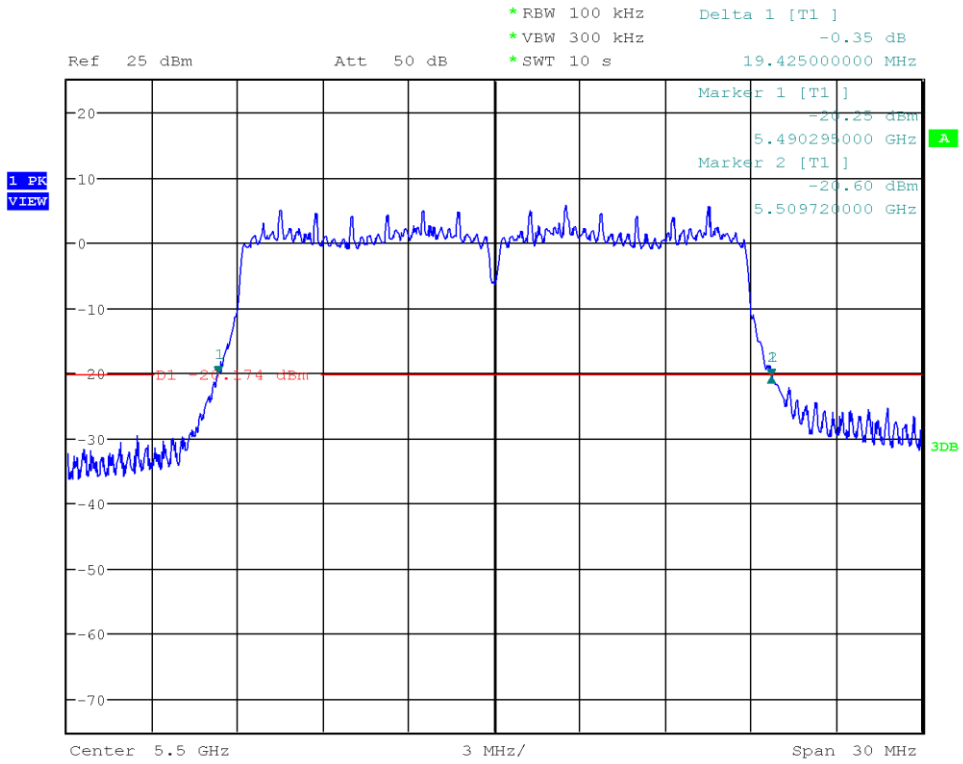
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11n (HT40), Channel: 142, 5710 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	HT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5689.930
Upper Frequency [MHz]:	5729.830
26 dB Bandwidth [MHz]:	39.900



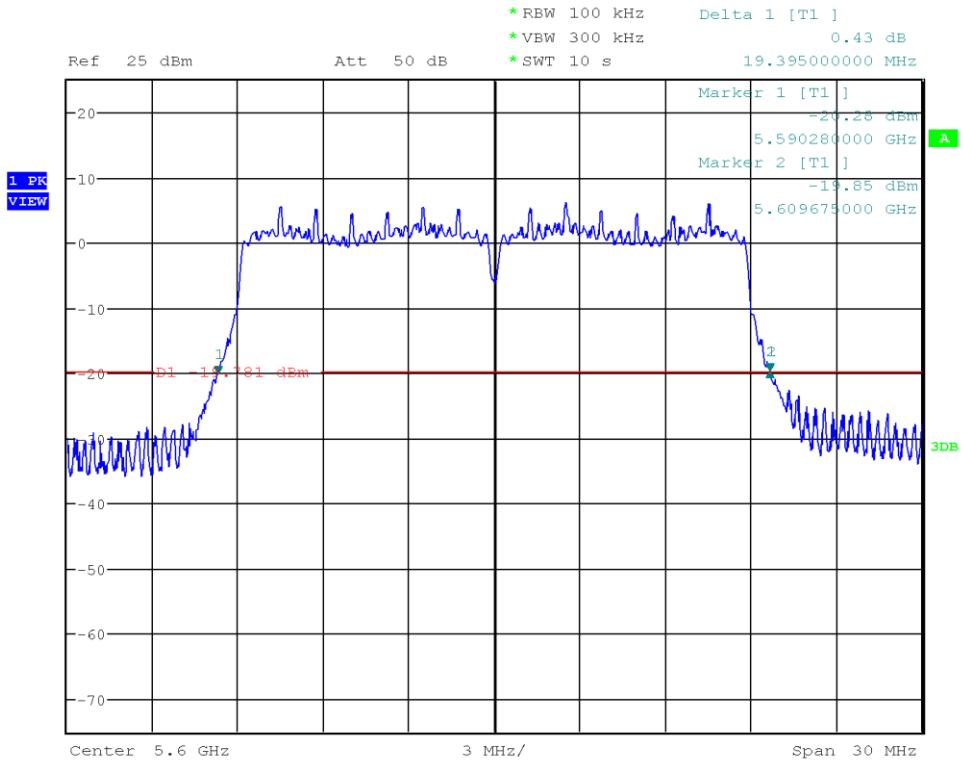
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 1
Lower Frequency [MHz]:	5490.295
Upper Frequency [MHz]:	5509.720
26 dB Bandwidth [MHz]:	19.425



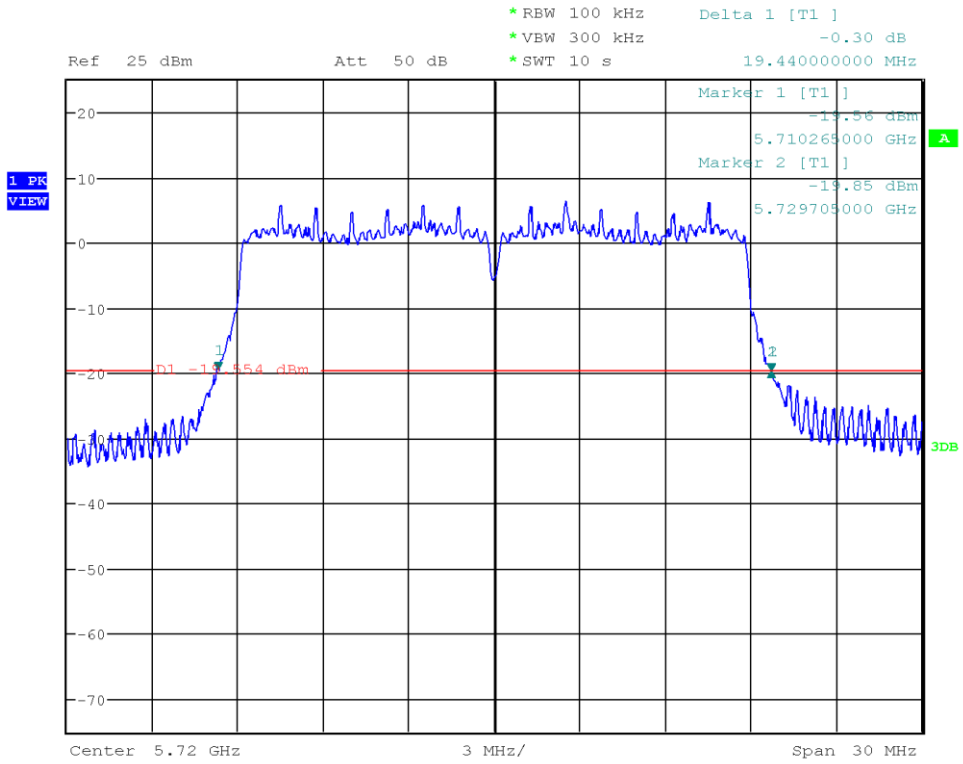
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 1
Lower Frequency [MHz]:	5590.280
Upper Frequency [MHz]:	5609.675
26 dB Bandwidth [MHz]:	19.395



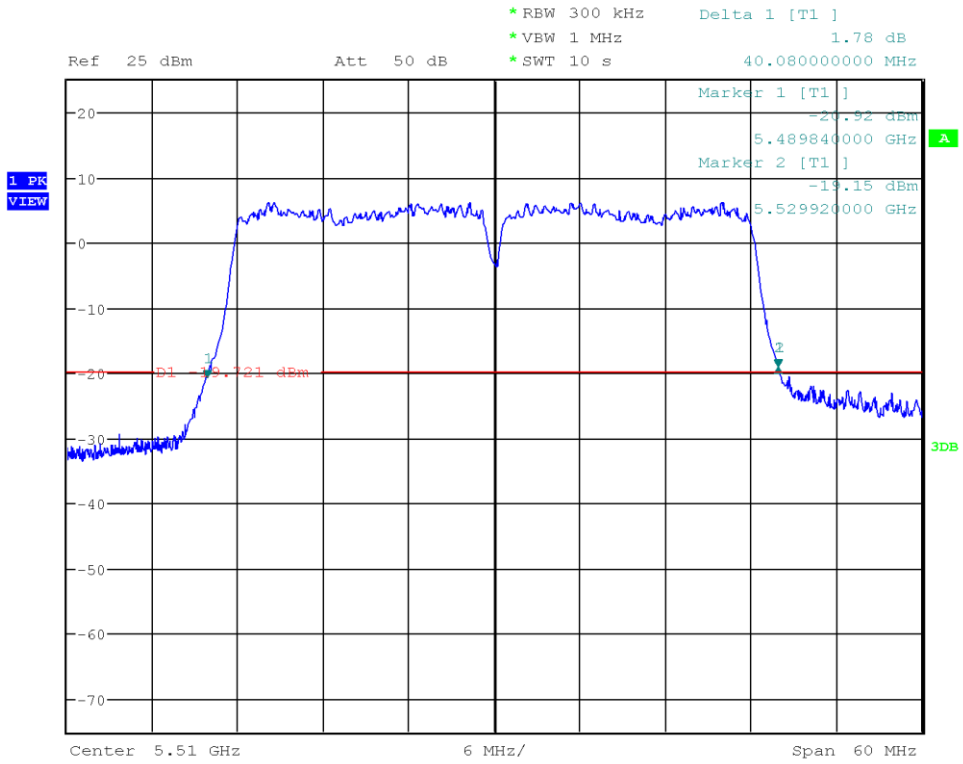
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT20, Bit rate= MCS 1
Lower Frequency [MHz]:	5710.265
Upper Frequency [MHz]:	5729.705
26 dB Bandwidth [MHz]:	19.440



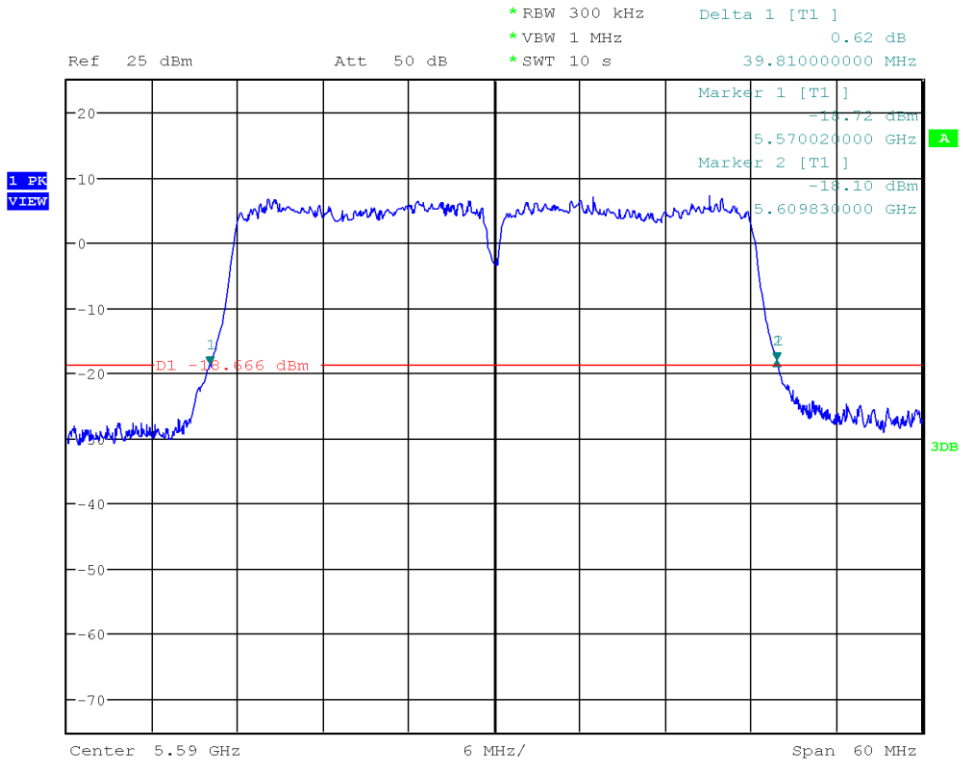
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 102, 5510 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5489.840
Upper Frequency [MHz]:	5529.920
26 dB Bandwidth [MHz]:	40.080



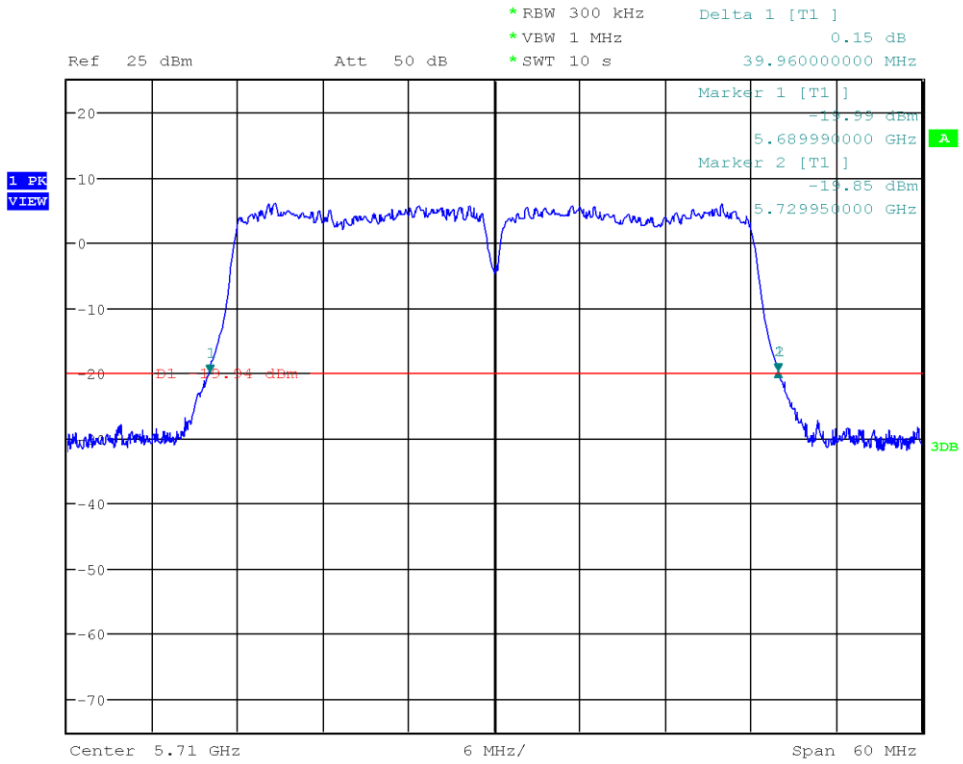
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 118, 5590 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5570.020
Upper Frequency [MHz]:	5609.830
26 dB Bandwidth [MHz]:	39.810



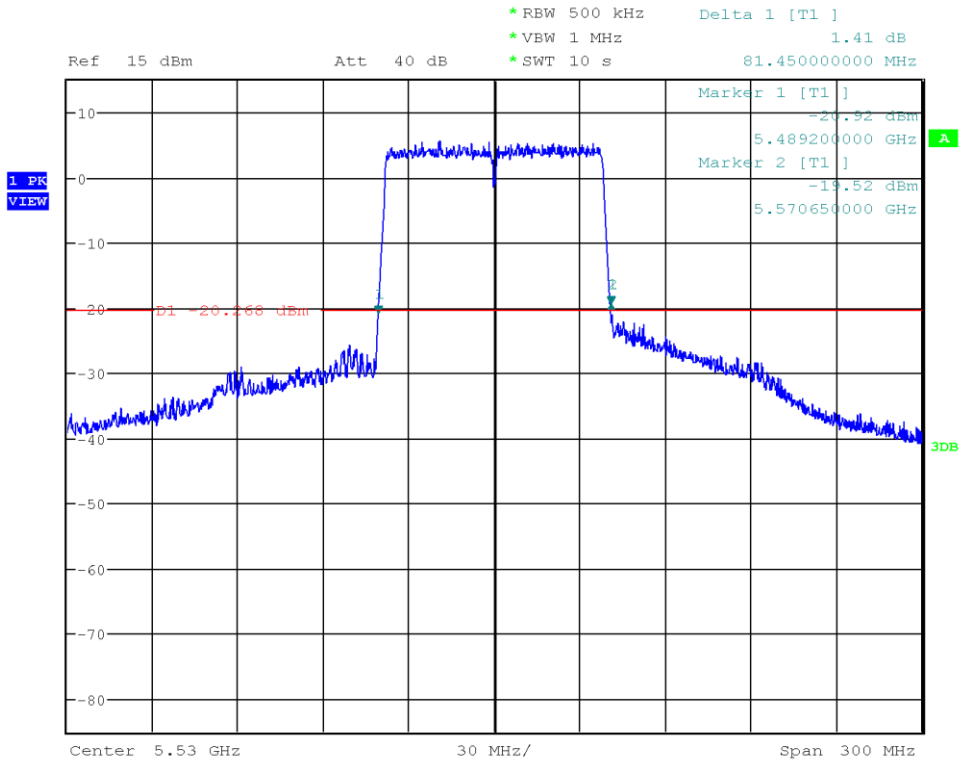
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT40), Channel: 142, 5710 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT40, Bit rate= MCS 5
Lower Frequency [MHz]:	5689.990
Upper Frequency [MHz]:	5729.950
26 dB Bandwidth [MHz]:	39.960



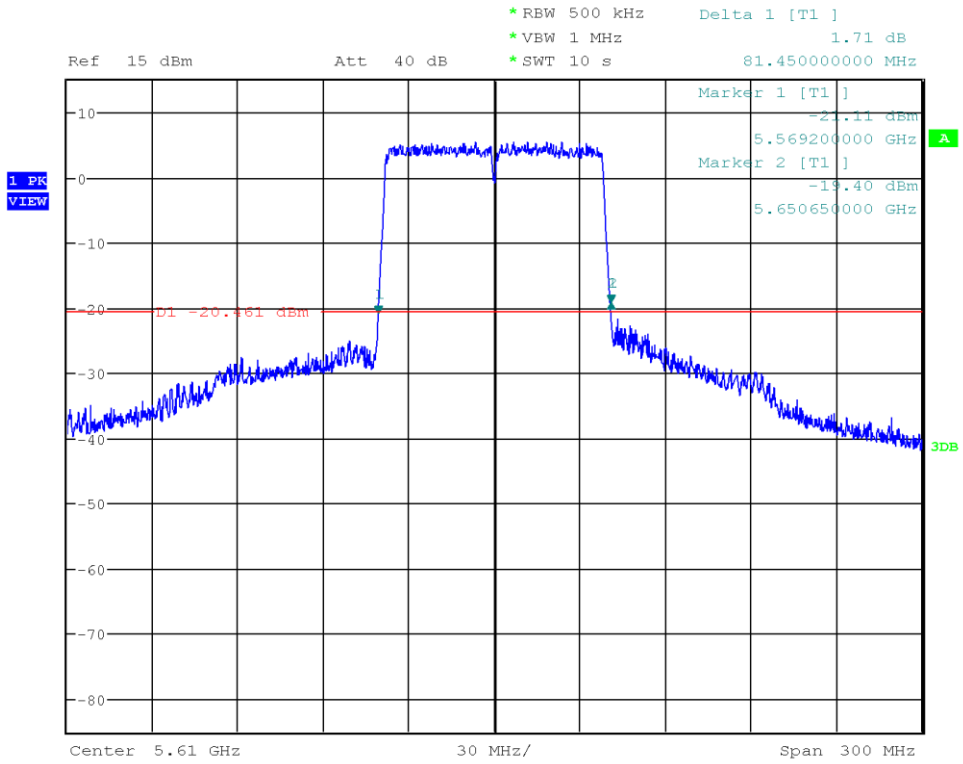
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 106, 5530 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT80, Bit rate= MCS 4
Lower Frequency [MHz]:	5489.200
Upper Frequency [MHz]:	5570.650
26 dB Bandwidth [MHz]:	81.450



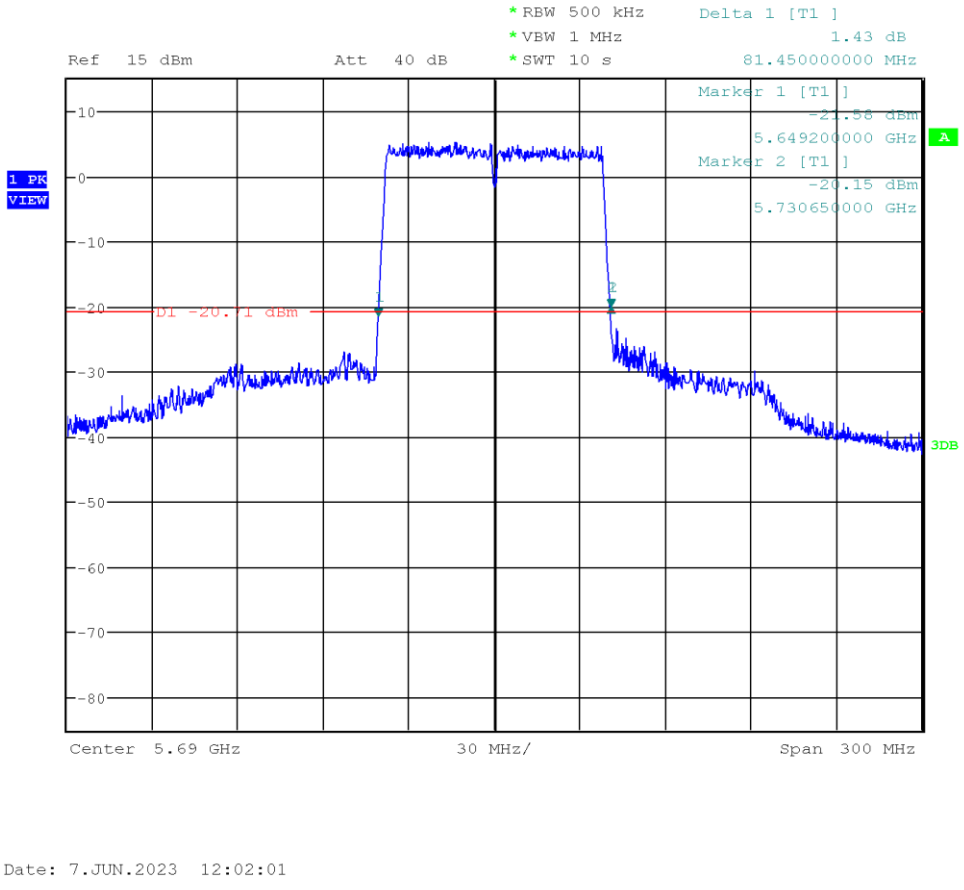
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 122, 5610 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT80, Bit rate= MCS 4
Lower Frequency [MHz]:	5569.200
Upper Frequency [MHz]:	5650.650
26 dB Bandwidth [MHz]:	81.450



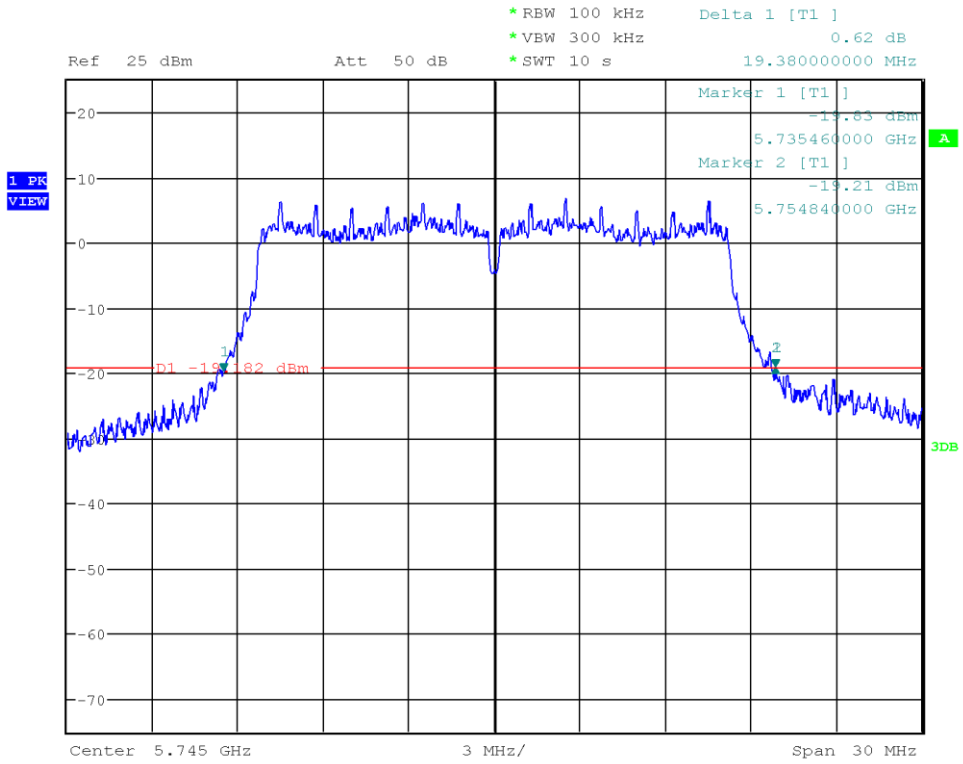
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ac (VHT80), Channel: 138, 5690 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	VHT80, Bit rate= MCS 4
Lower Frequency [MHz]:	5649.200
Upper Frequency [MHz]:	5730.650
26 dB Bandwidth [MHz]:	81.450



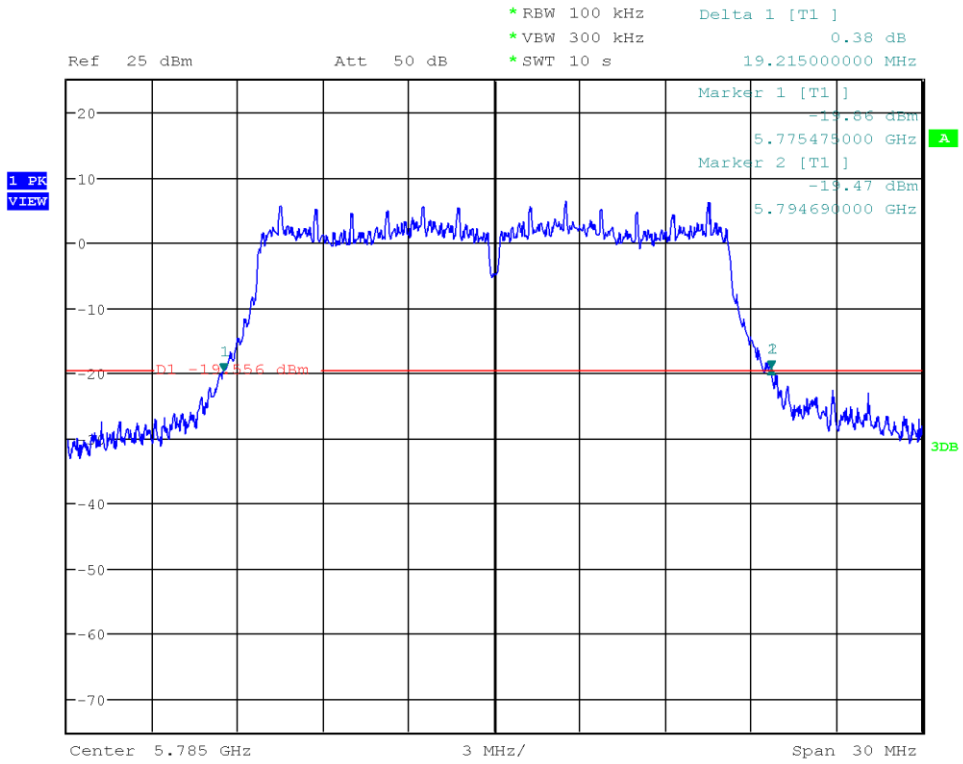
26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5735.460
Upper Frequency [MHz]:	5754.840
26 dB Bandwidth [MHz]:	19.380



26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5775.475
Upper Frequency [MHz]:	5794.690
26 dB Bandwidth [MHz]:	19.215



26 dB Bandwidth

Project Number:	G0M-2302-1881
Applicant:	u-blox AG
Model Description:	Host-based multiradio module
Model:	MAYA-W276-00B
Test Sample ID:	43225
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11a, Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Radwan Jaafar
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-06-07
Note:	OFDM, Bit rate= 6 Mbps
Lower Frequency [MHz]:	5815.445
Upper Frequency [MHz]:	5834.690
26 dB Bandwidth [MHz]:	19.245