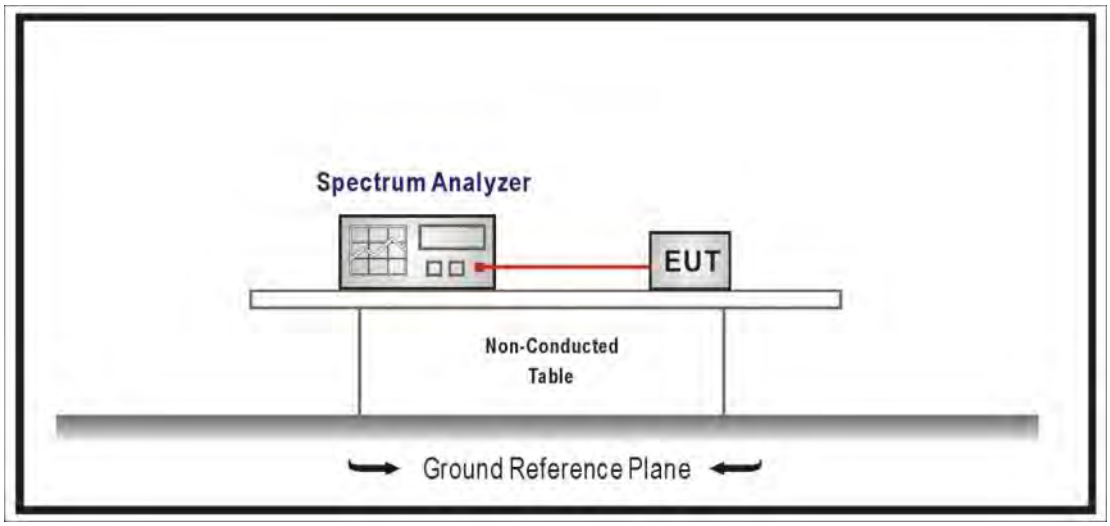
5. RF antenna conducted test

5.1. Test Setup

RF Antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.4. Test Specification

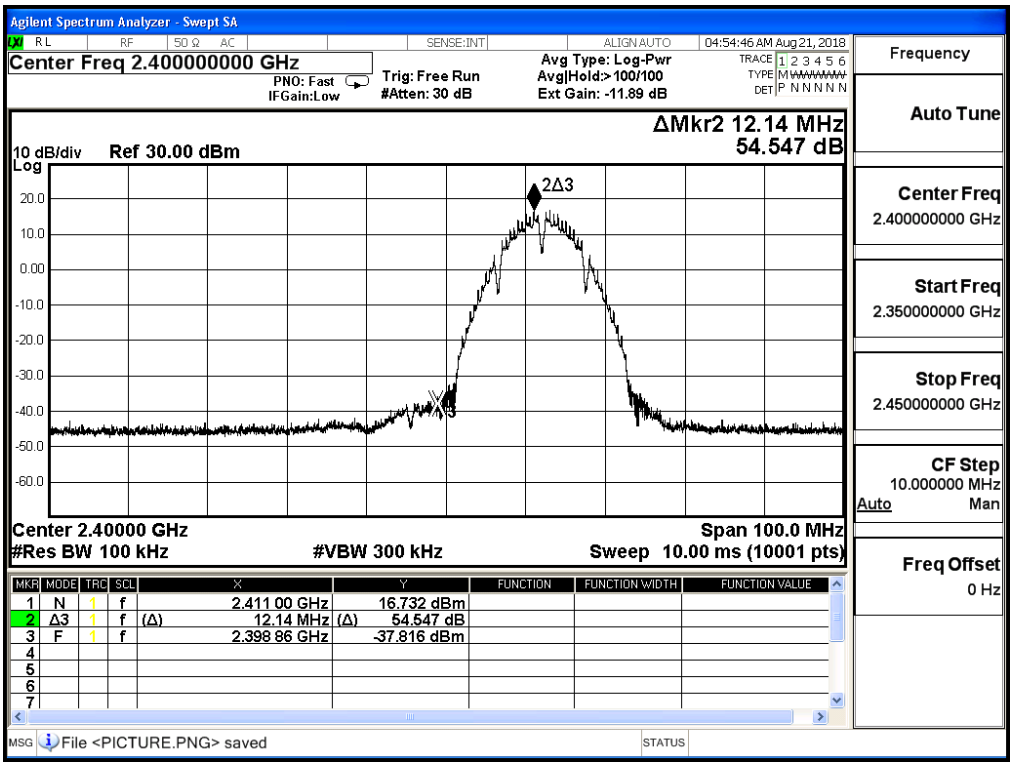
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

5.5. Test Result

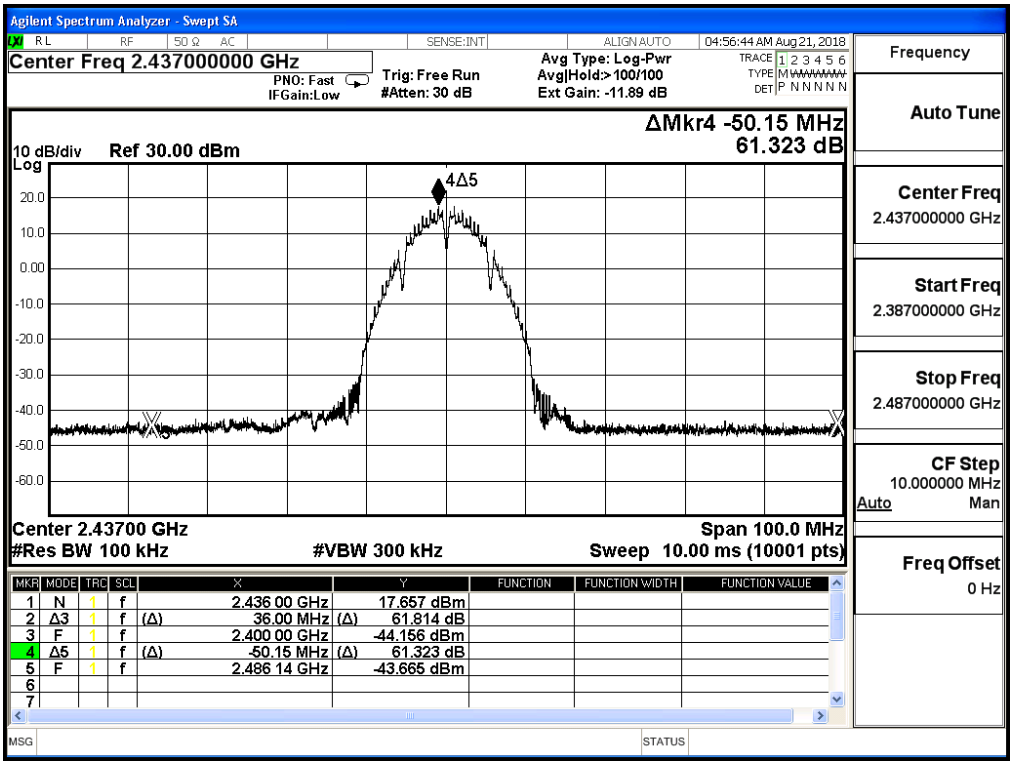
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	54.547	≧30	Pass
6	2437	54.540	≧30	Pass
11	2462	53.250	≧30	Pass

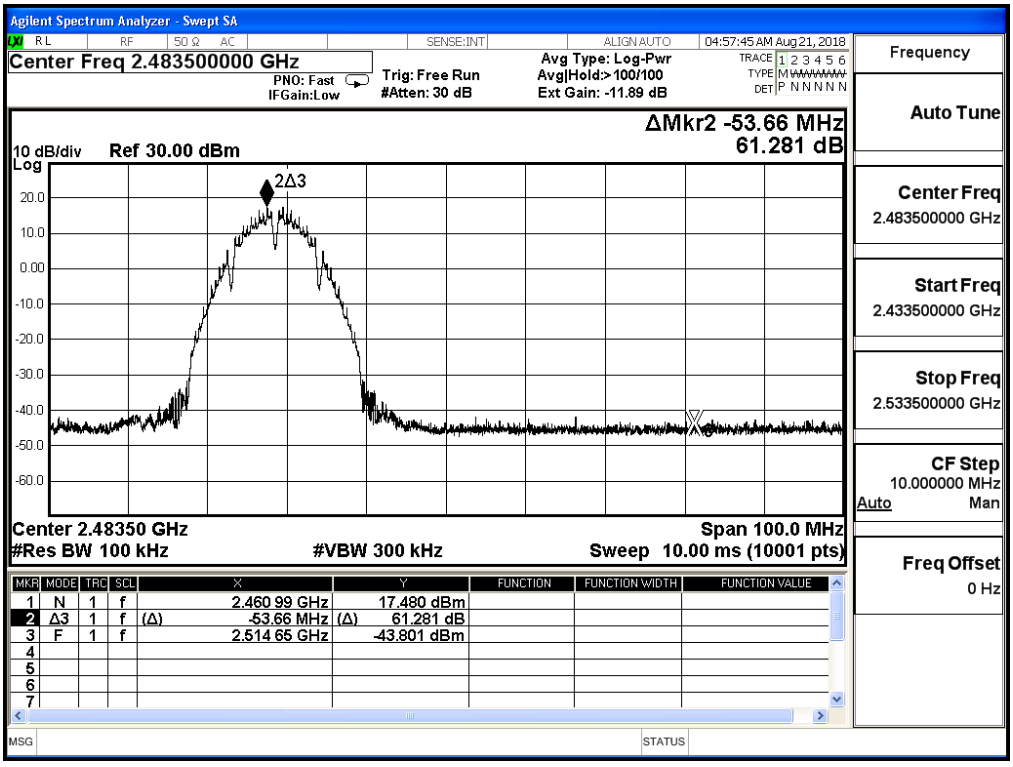
Channel 1 (2412MHz)



Channel 6 (2437MHz)



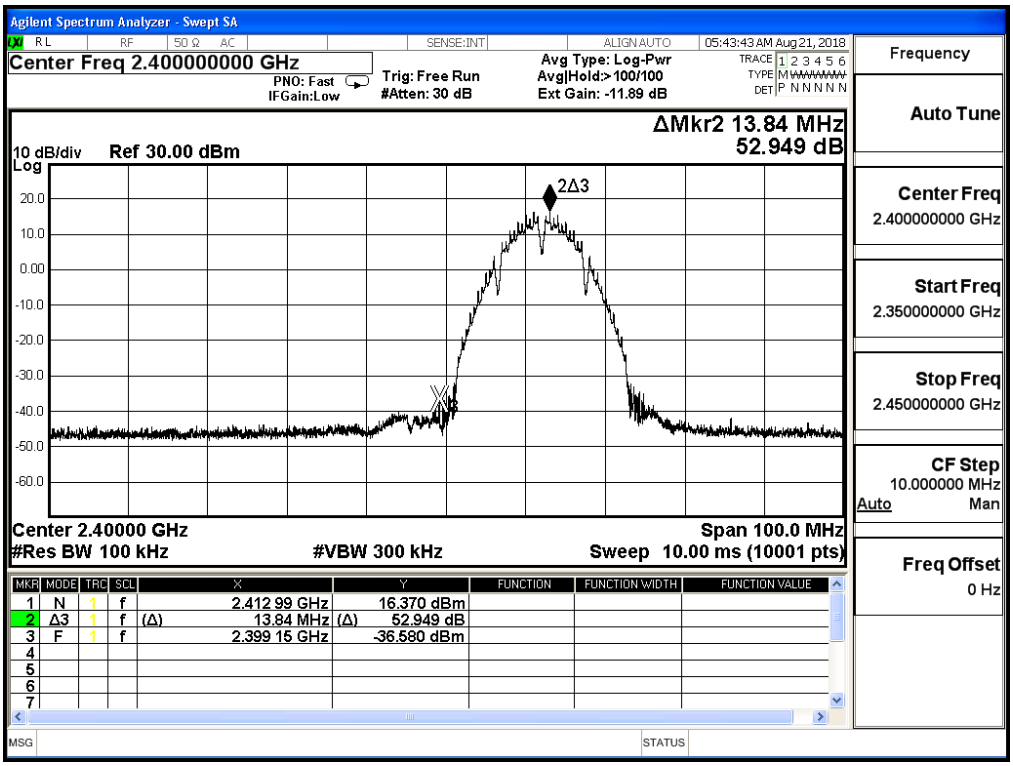
Channel 11 (2462MHz)



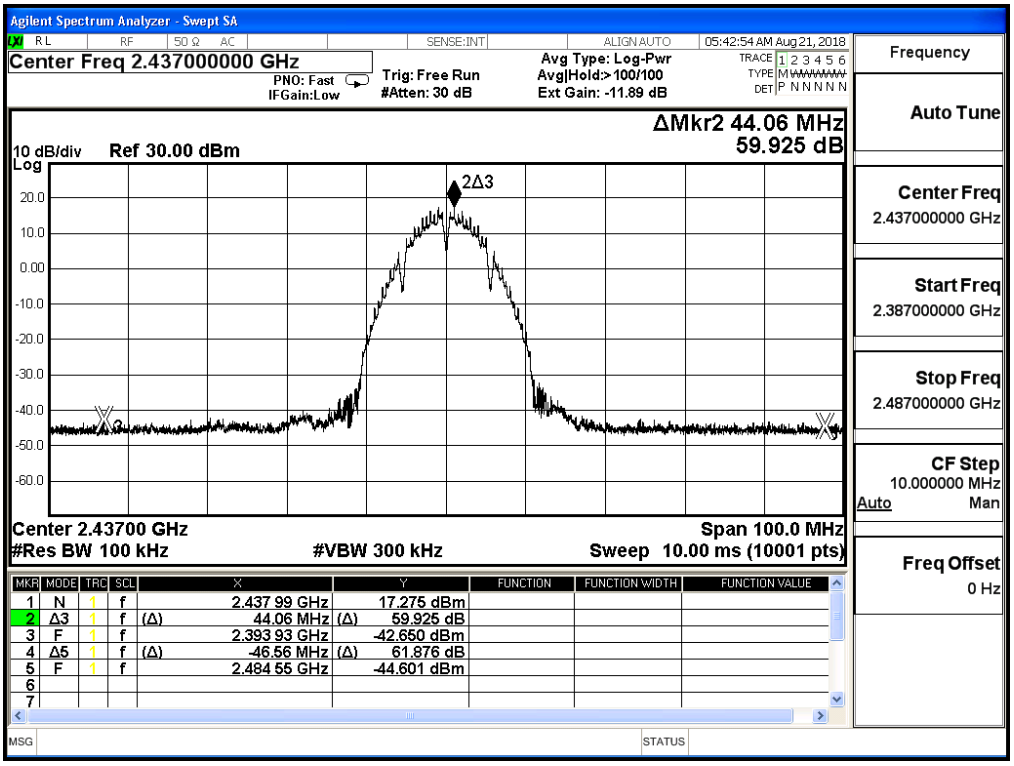
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	52.949	≧30	Pass
6	2437	55.460	≧30	Pass
11	2462	56.860	≧30	Pass

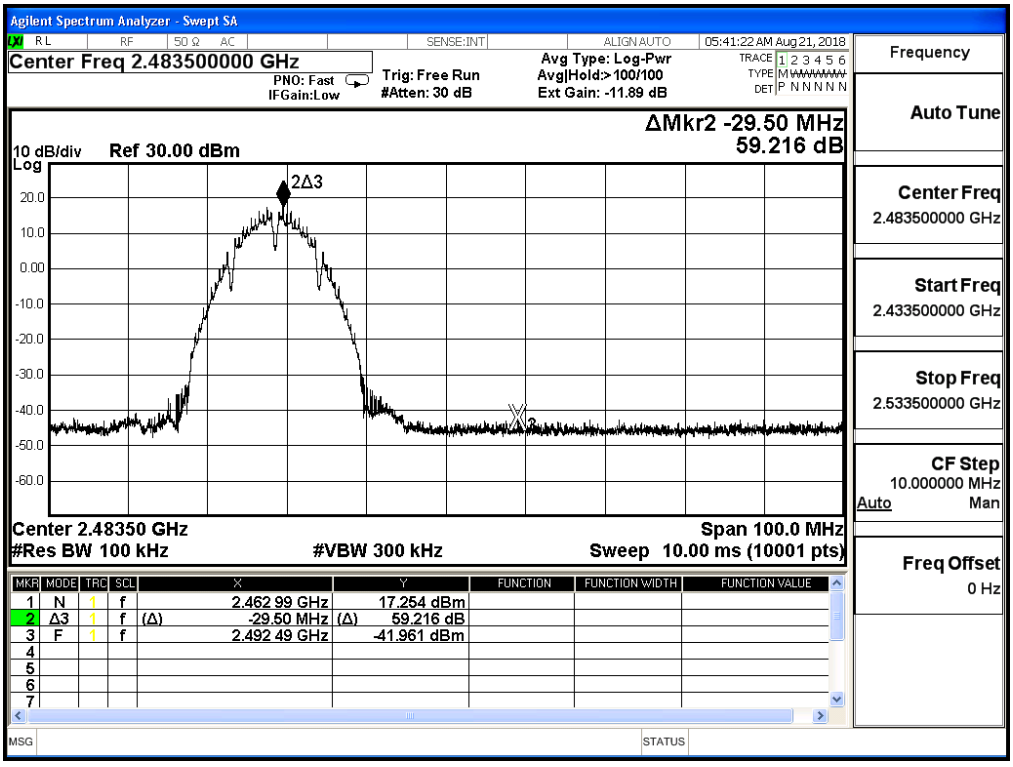
Channel 1 (2412MHz)



Channel 6 (2437MHz)



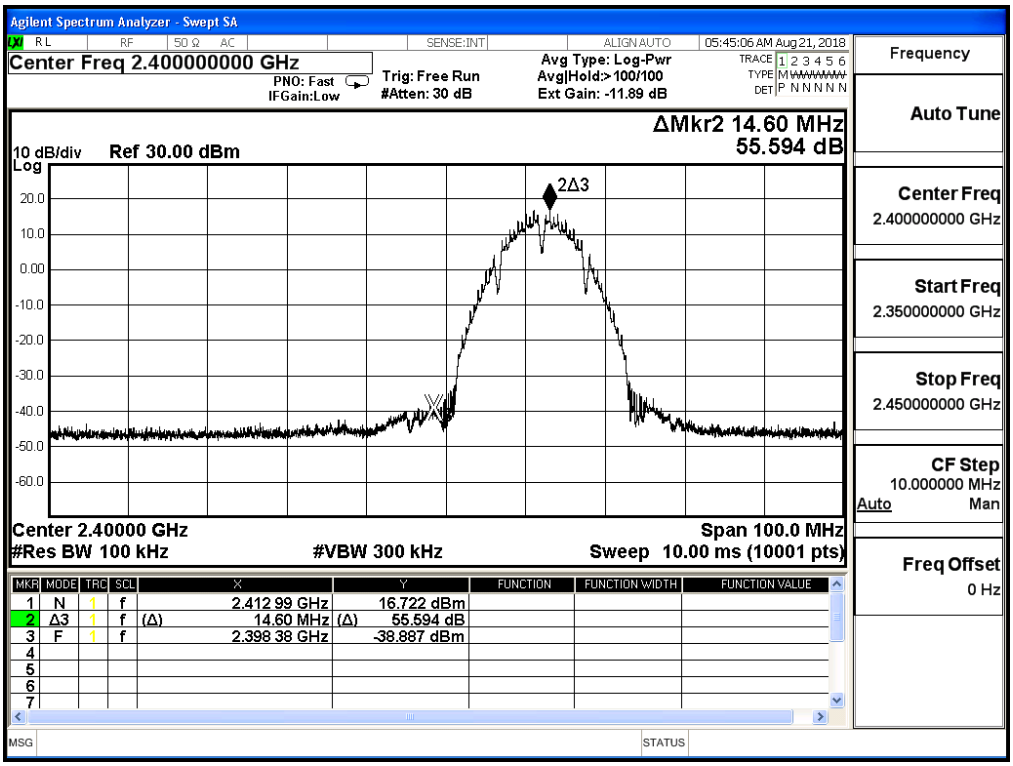
Channel 11 (2462MHz)



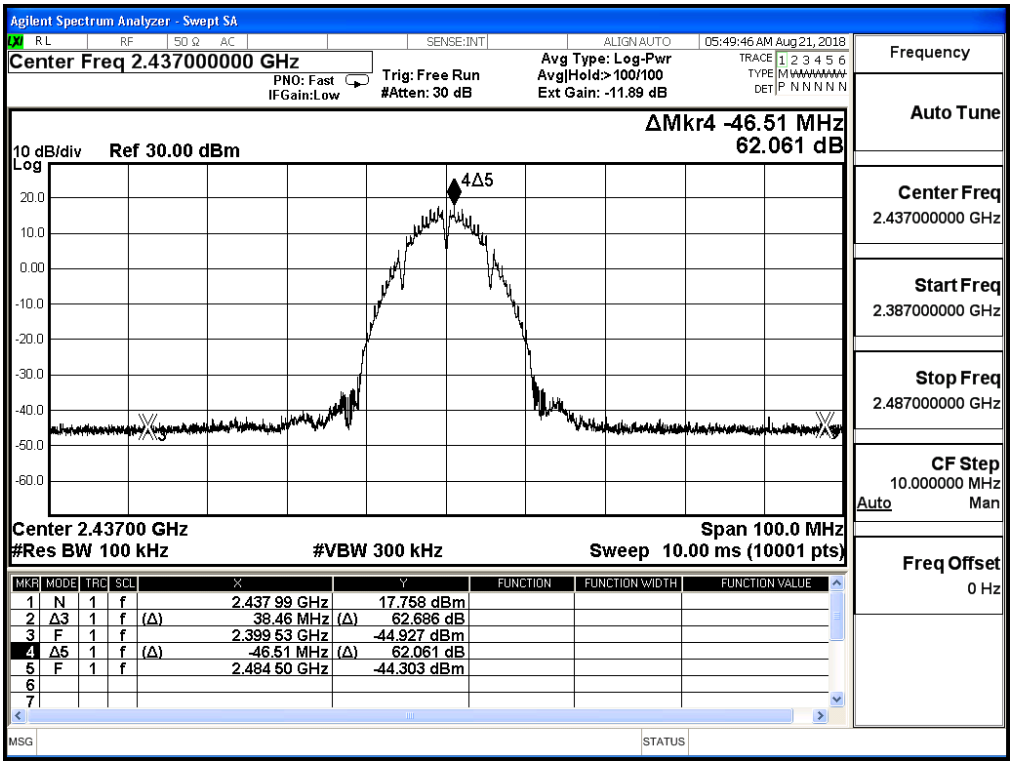
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11b (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	55.594	≧30	Pass
6	2437	53.620	≧30	Pass
11	2462	55.180	≧30	Pass

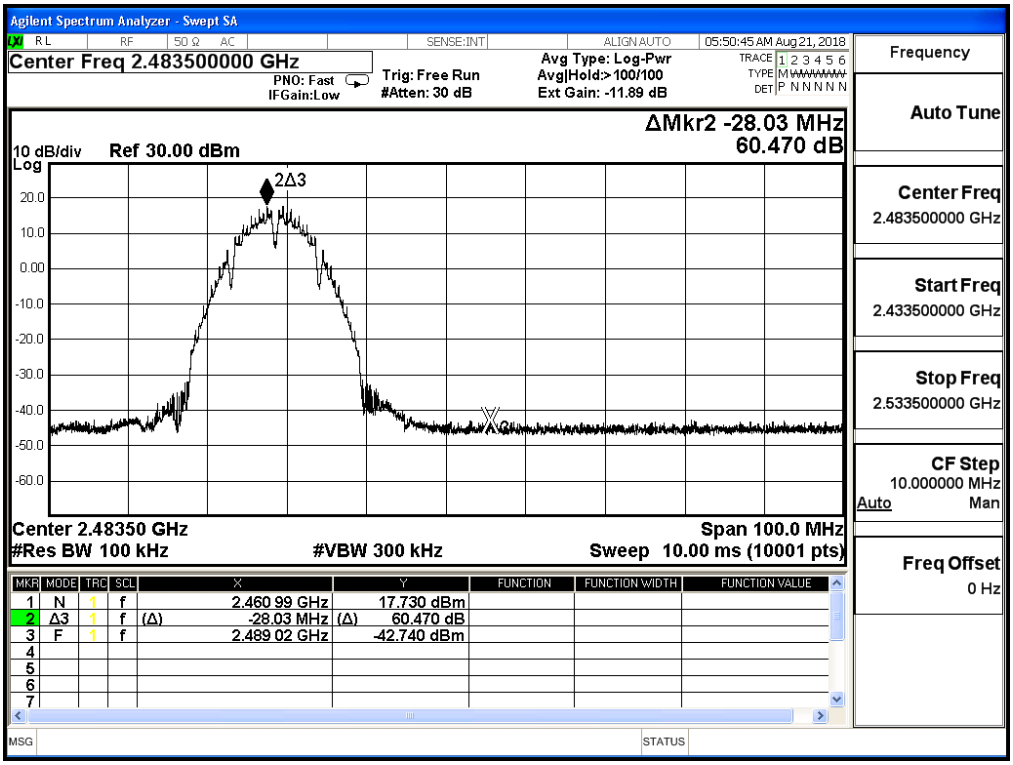
Channel 1 (2412MHz)



Channel 6 (2437MHz)



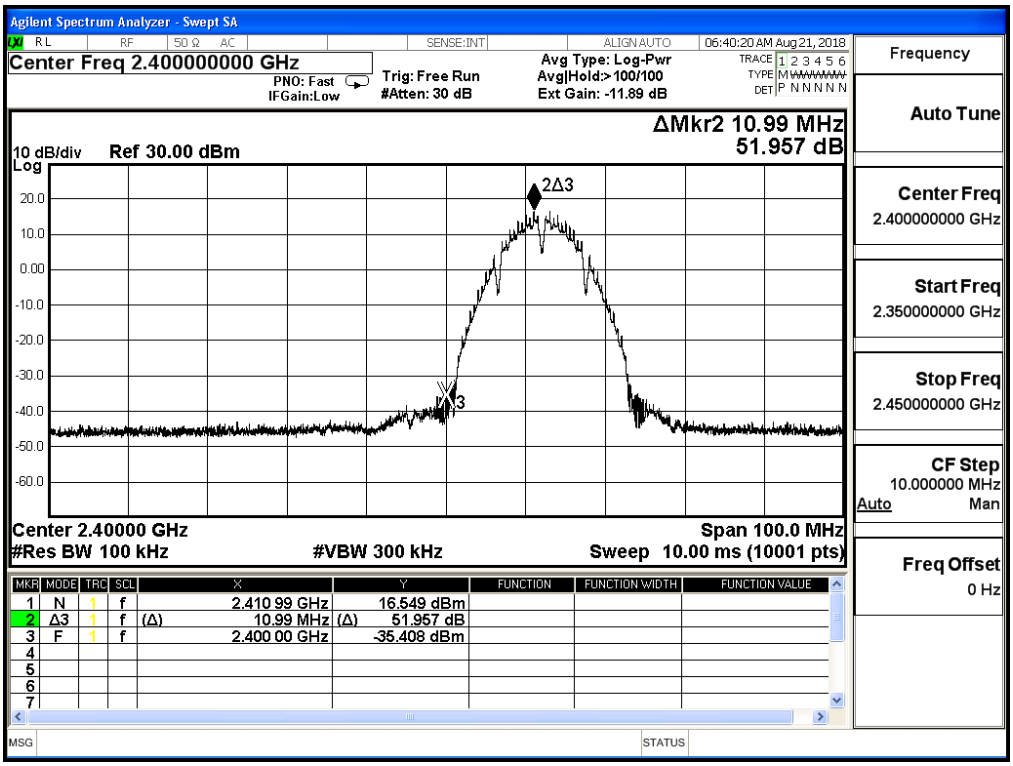
Channel 11 (2462MHz)



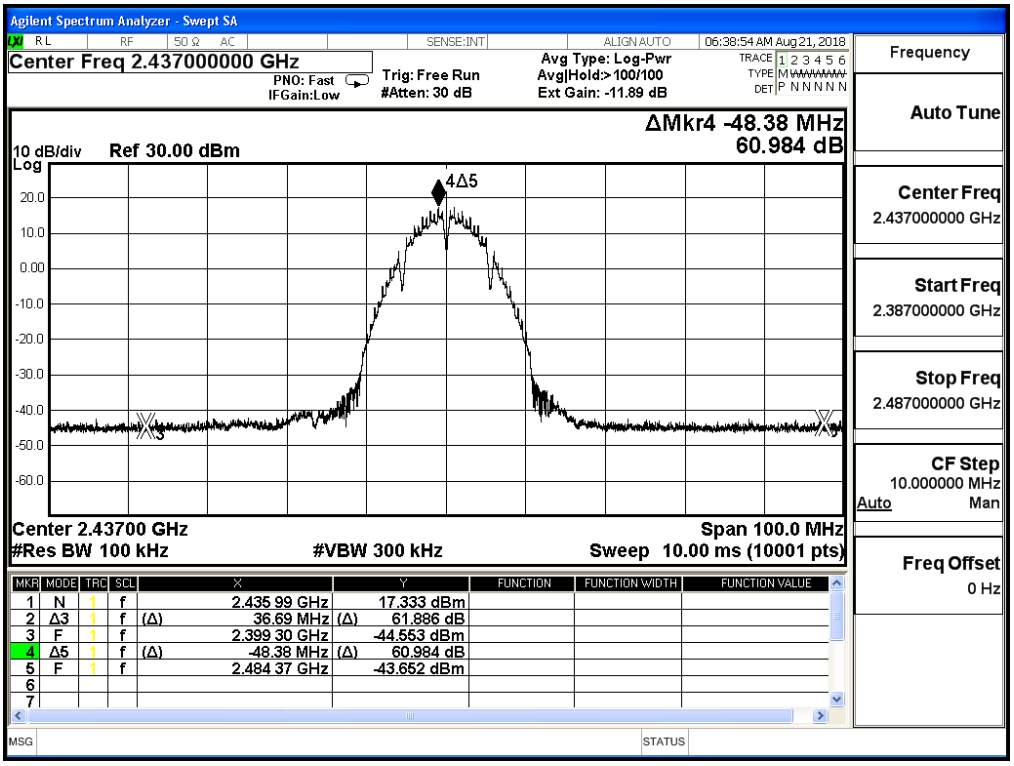
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11b (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	51.957	≧30	Pass
6	2437	55.360	≧30	Pass
11	2462	55.180	≧30	Pass

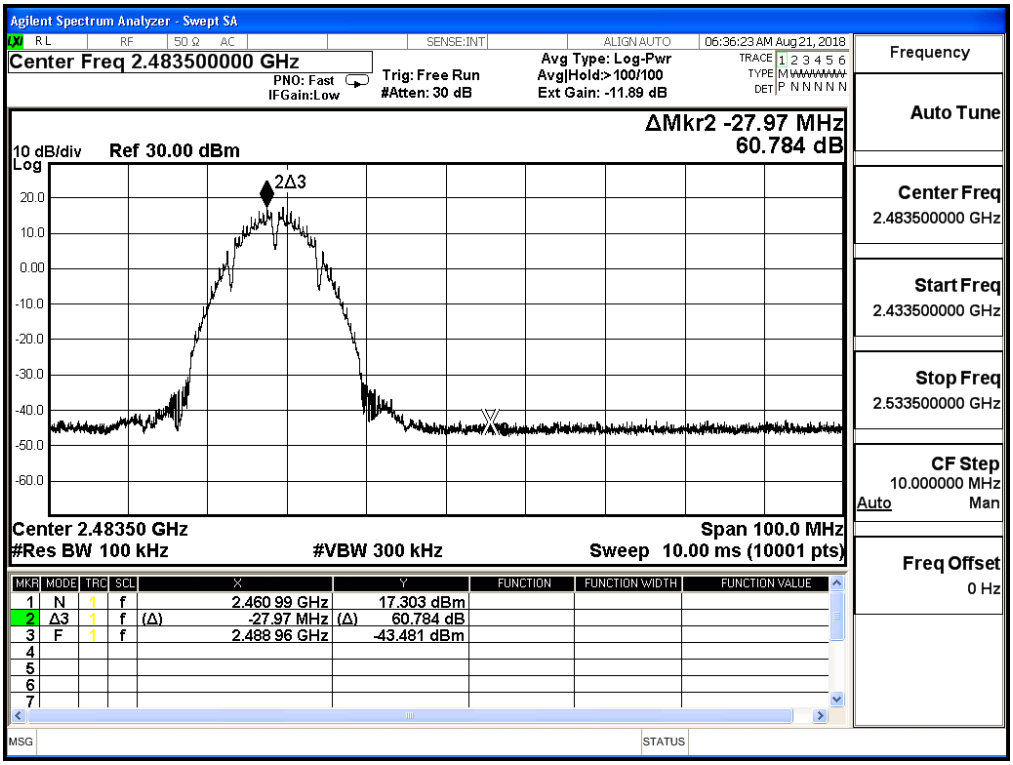
Channel 1 (2412MHz)



Channel 6 (2437MHz)



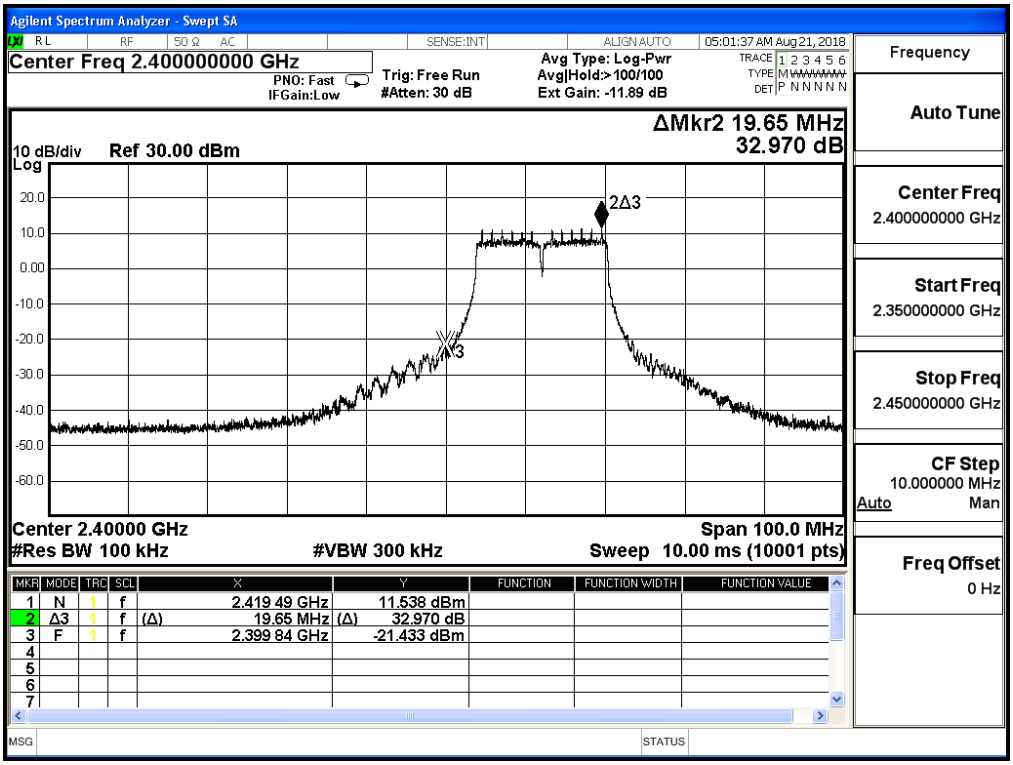
Channel 11 (2462MHz)



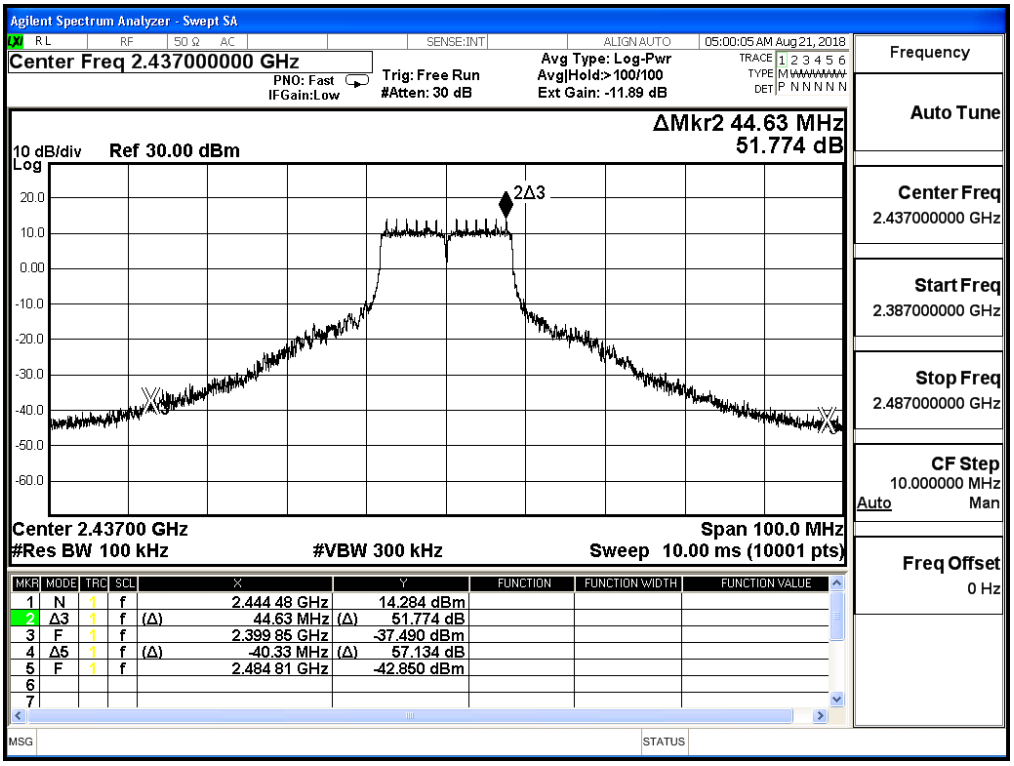
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.970	≧30	Pass
6	2437	49.650	≧30	Pass
11	2462	51.361	≧30	Pass

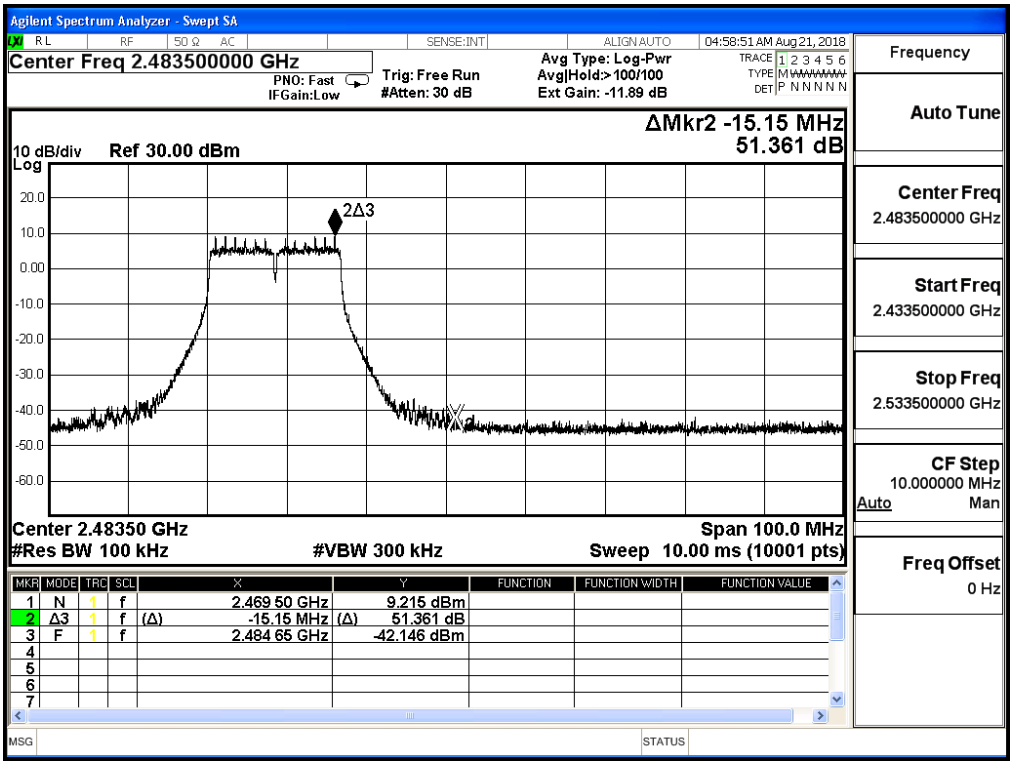
Channel 1 (2412MHz)



Channel 6 (2437MHz)



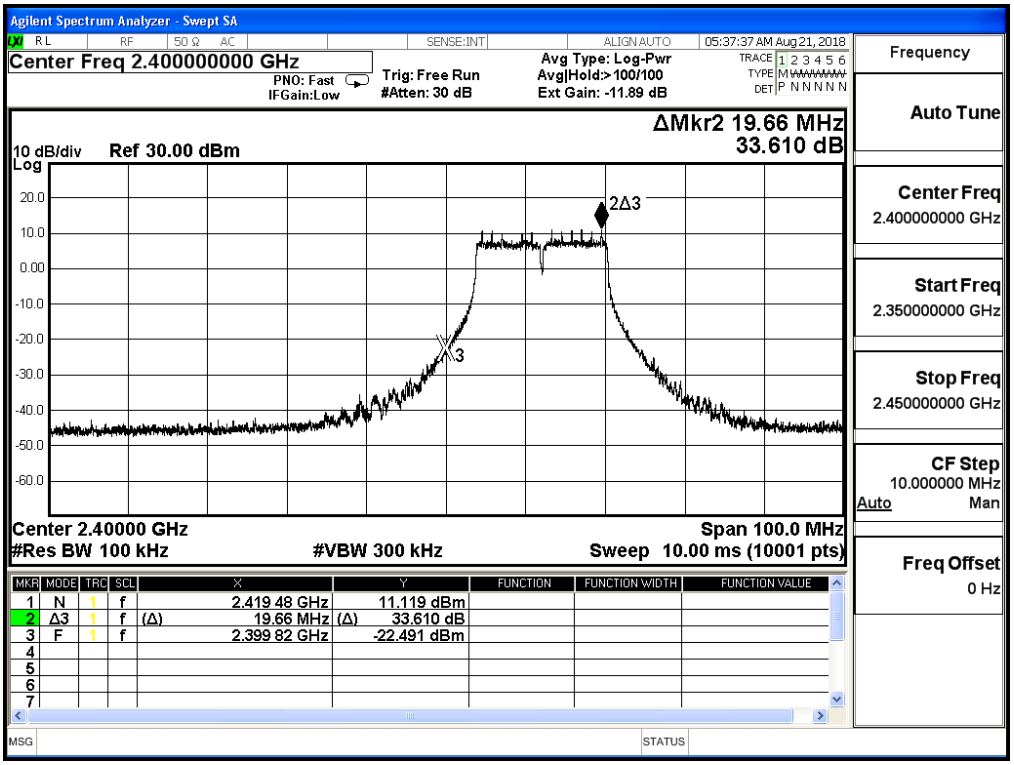
Channel 11 (2462MHz)



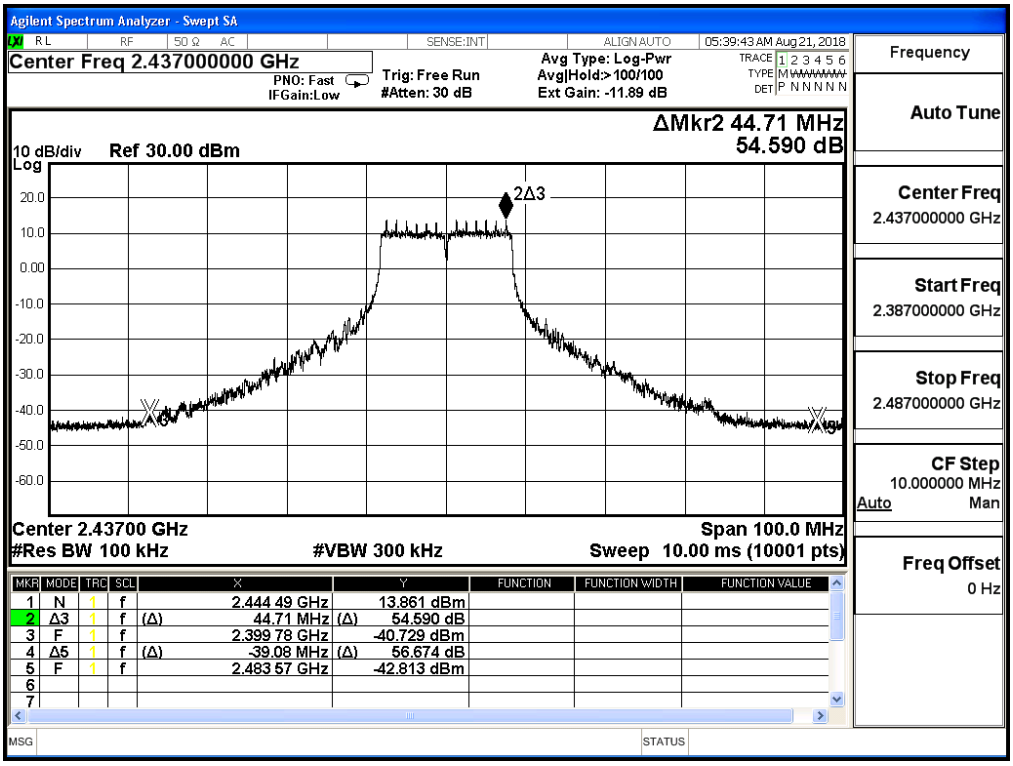
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.610	≧30	Pass
6	2437	52.250	≧30	Pass
11	2462	51.375	≧30	Pass

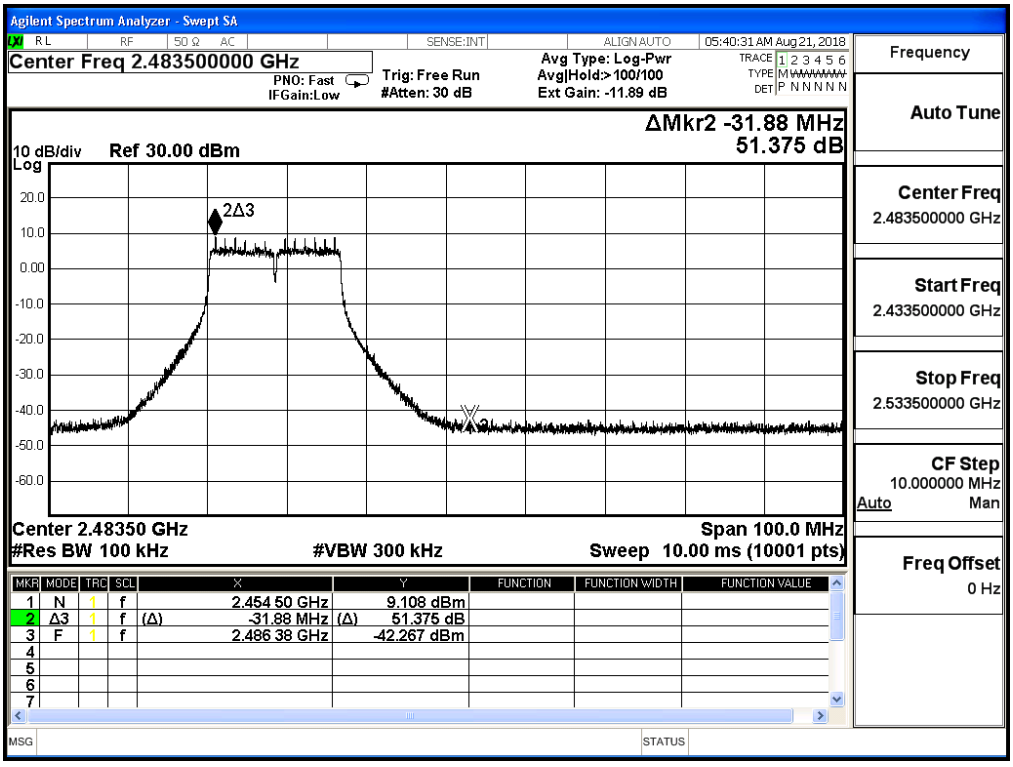
Channel 1 (2412MHz)



Channel 6 (2437MHz)



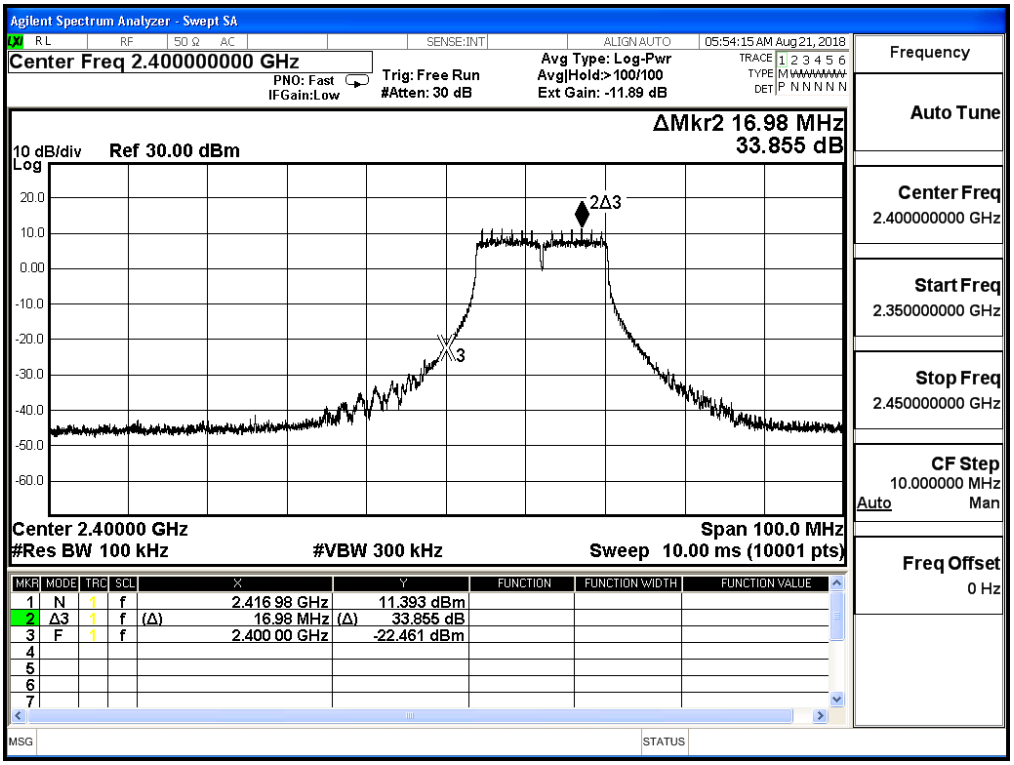
Channel 11 (2462MHz)



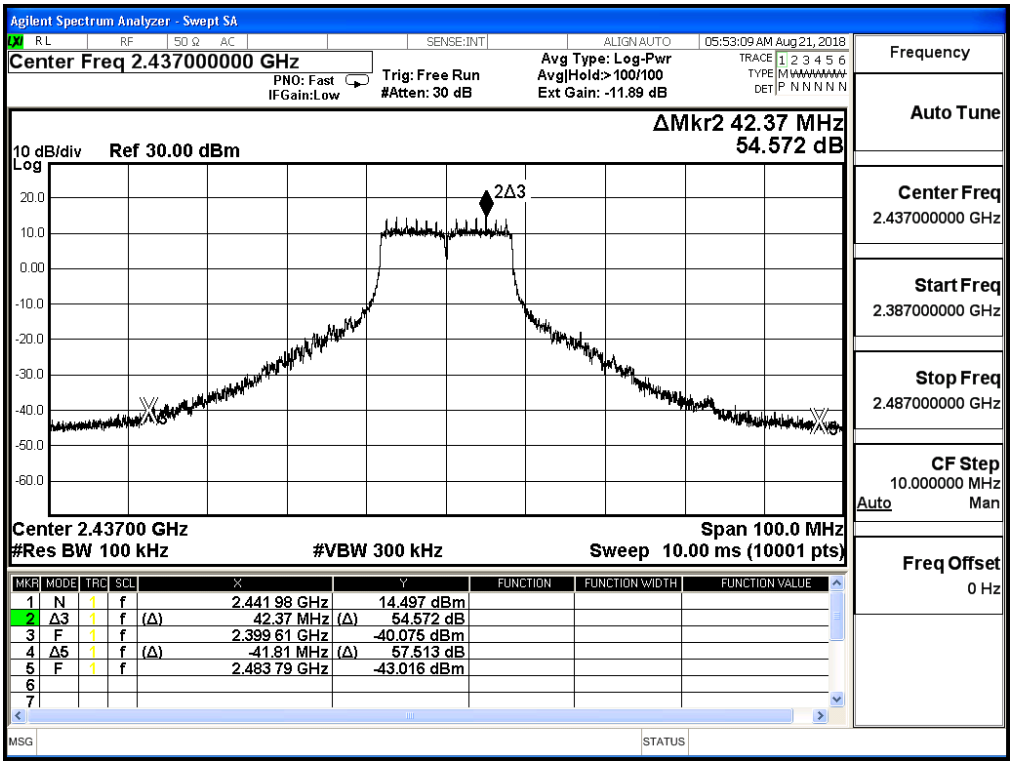
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11g (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.855	≧30	Pass
6	2437	53.780	≧30	Pass
11	2462	51.640	≧30	Pass

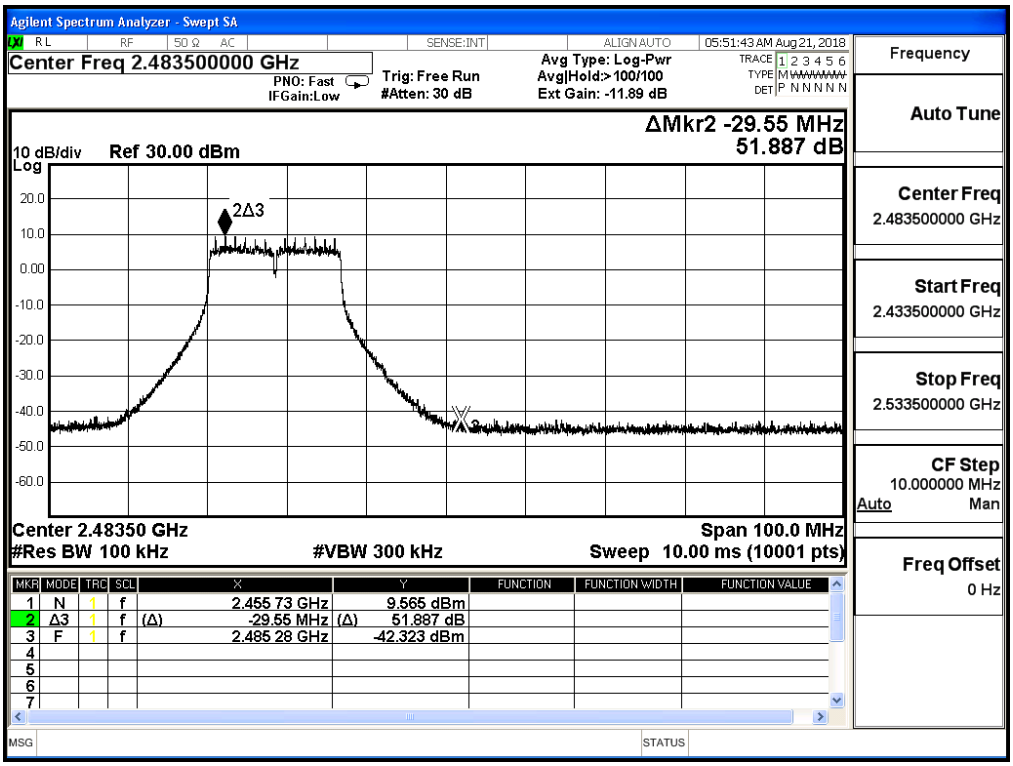
Channel 1 (2412MHz)



Channel 6 (2437MHz)



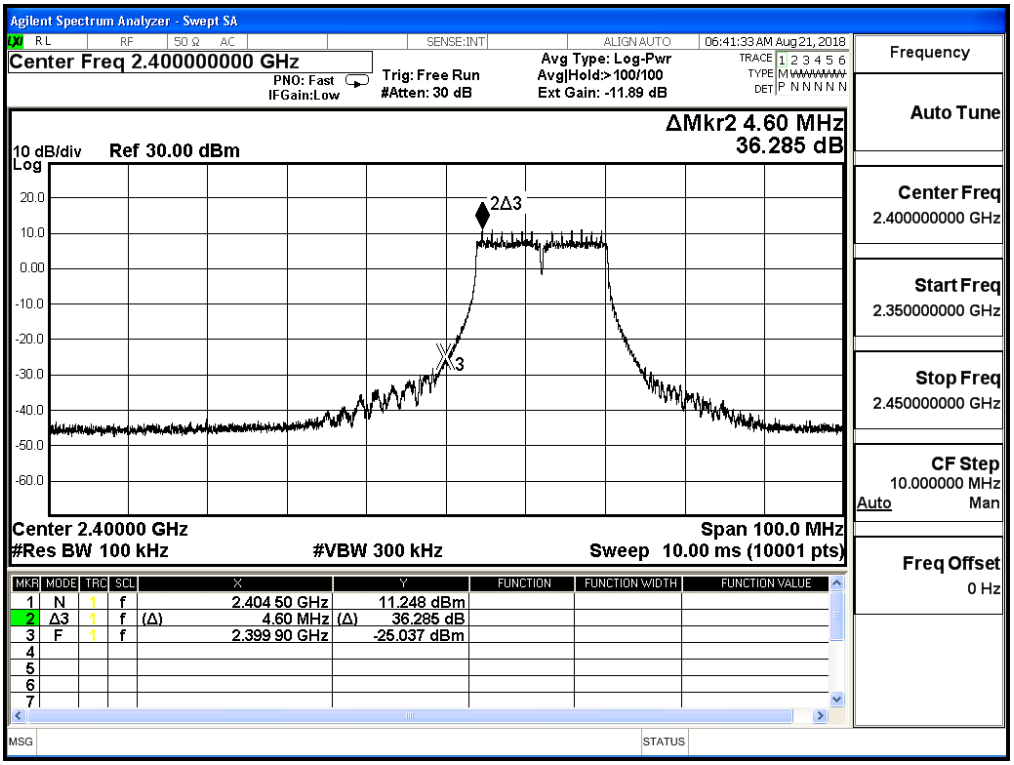
Channel 11 (2462MHz)



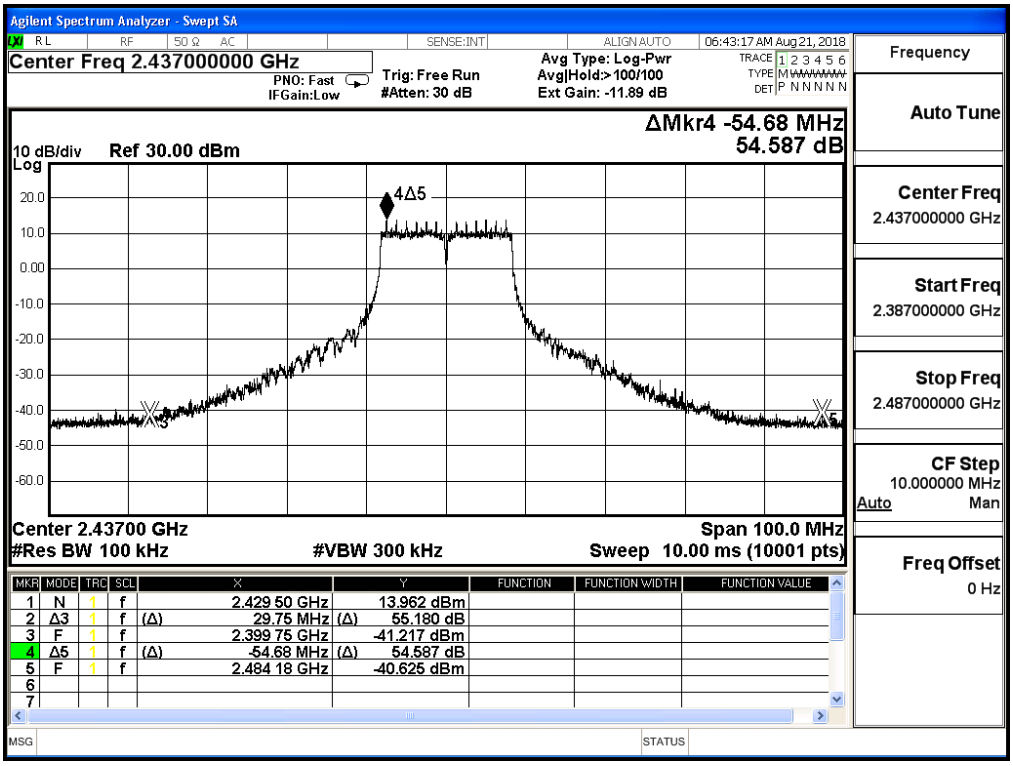
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11g (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.285	≧30	Pass
6	2437	48.170	≧30	Pass
11	2462	52.246	≧30	Pass

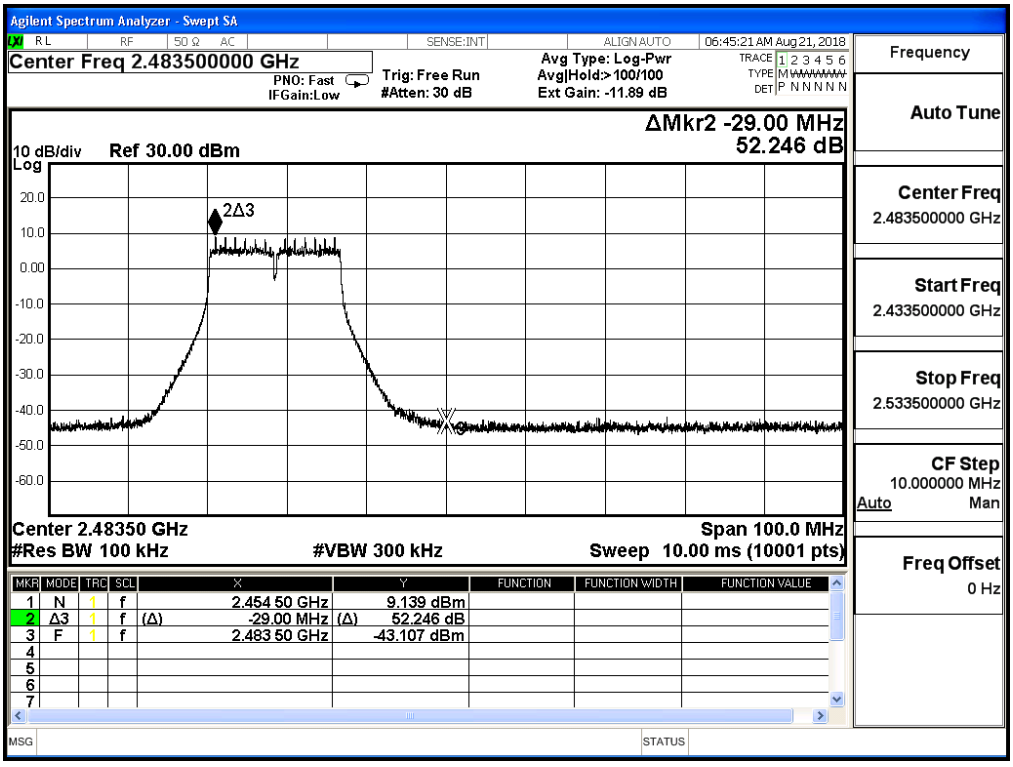
Channel 1 (2412MHz)



Channel 6 (2437MHz)



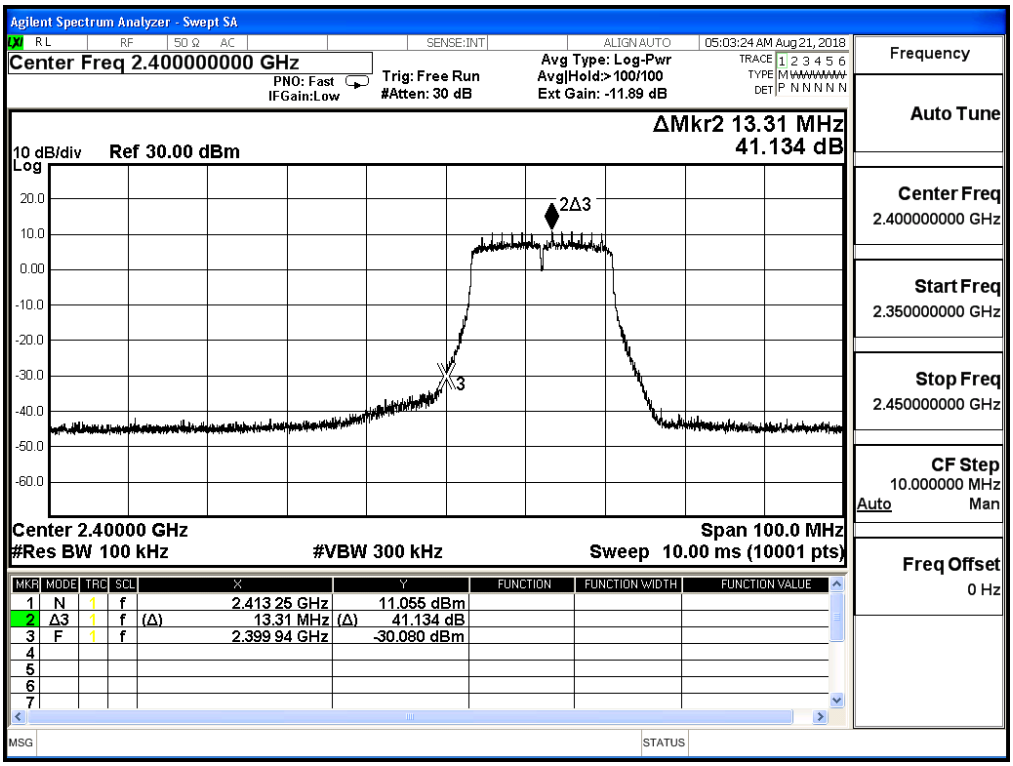
Channel 11 (2462MHz)



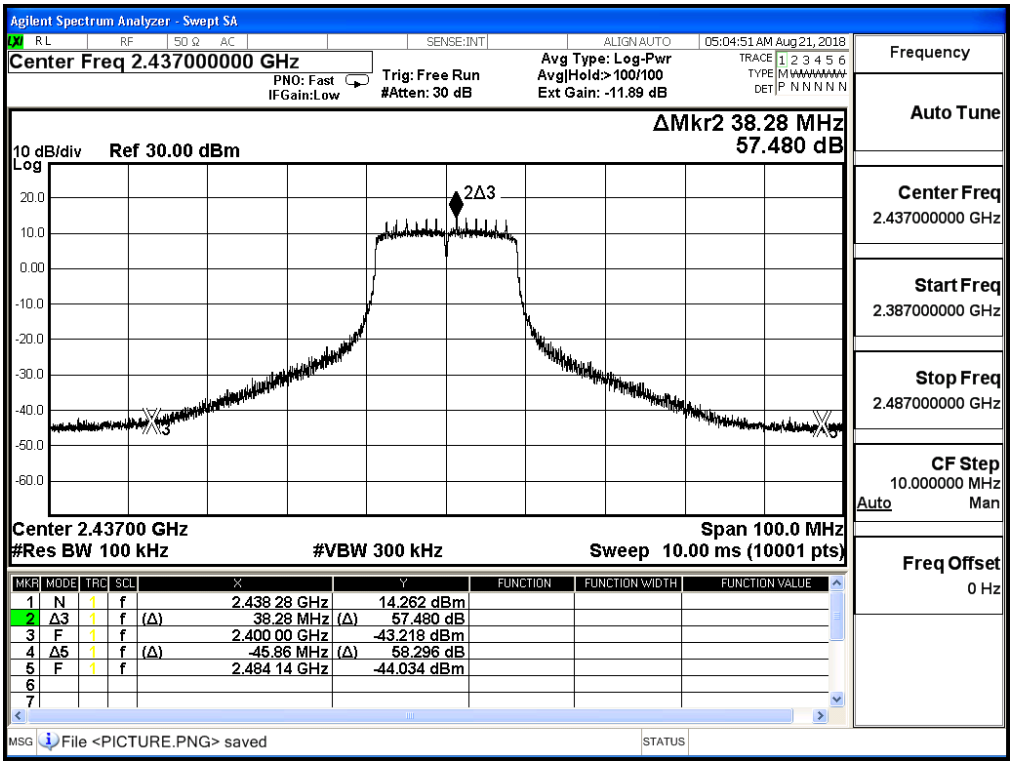
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.134	≧30	Pass
6	2437	50.940	≧30	Pass
11	2462	52.005	≧30	Pass

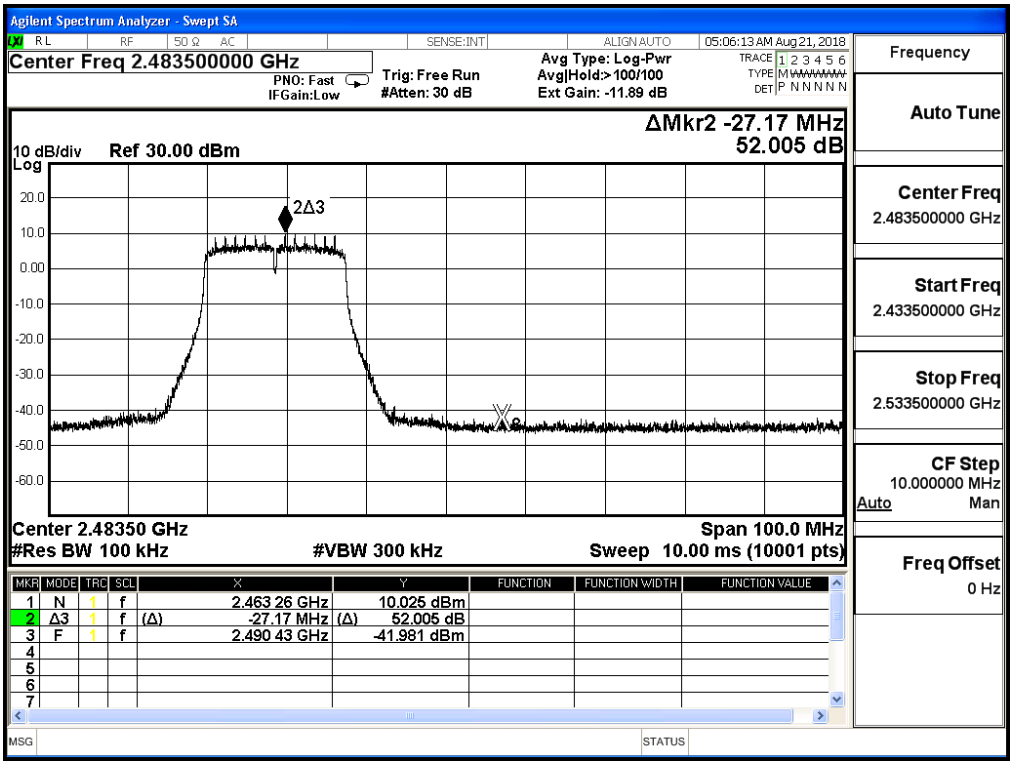
Channel 1 (2412MHz)



Channel 6 (2437MHz)



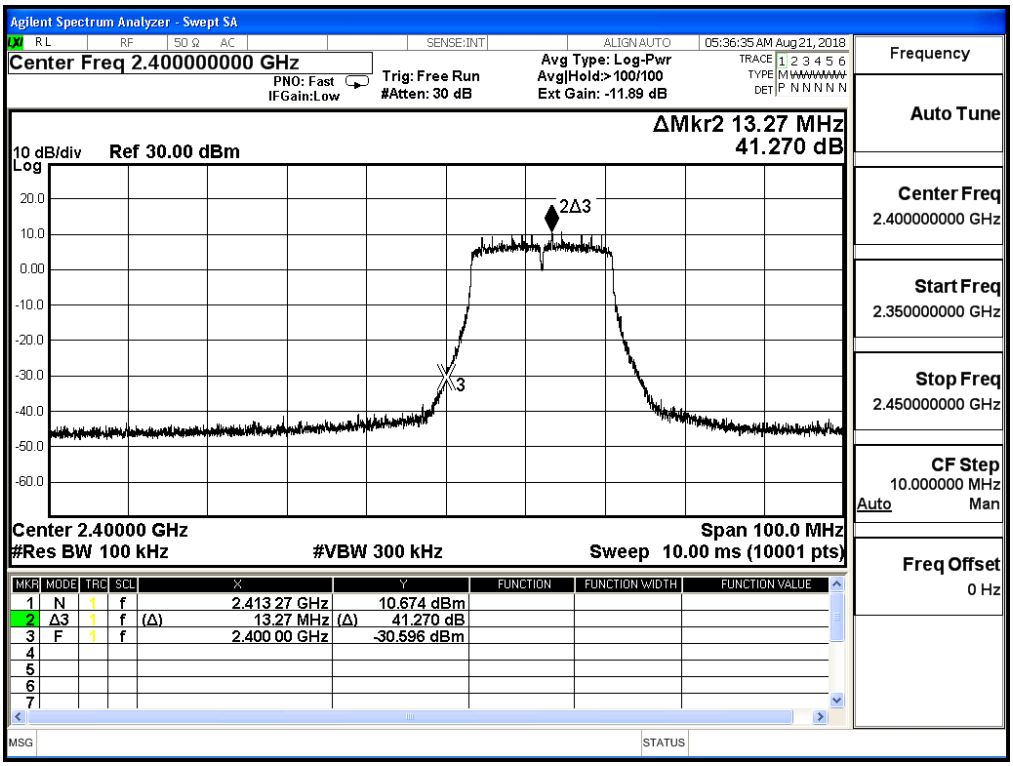
Channel 11 (2462MHz)



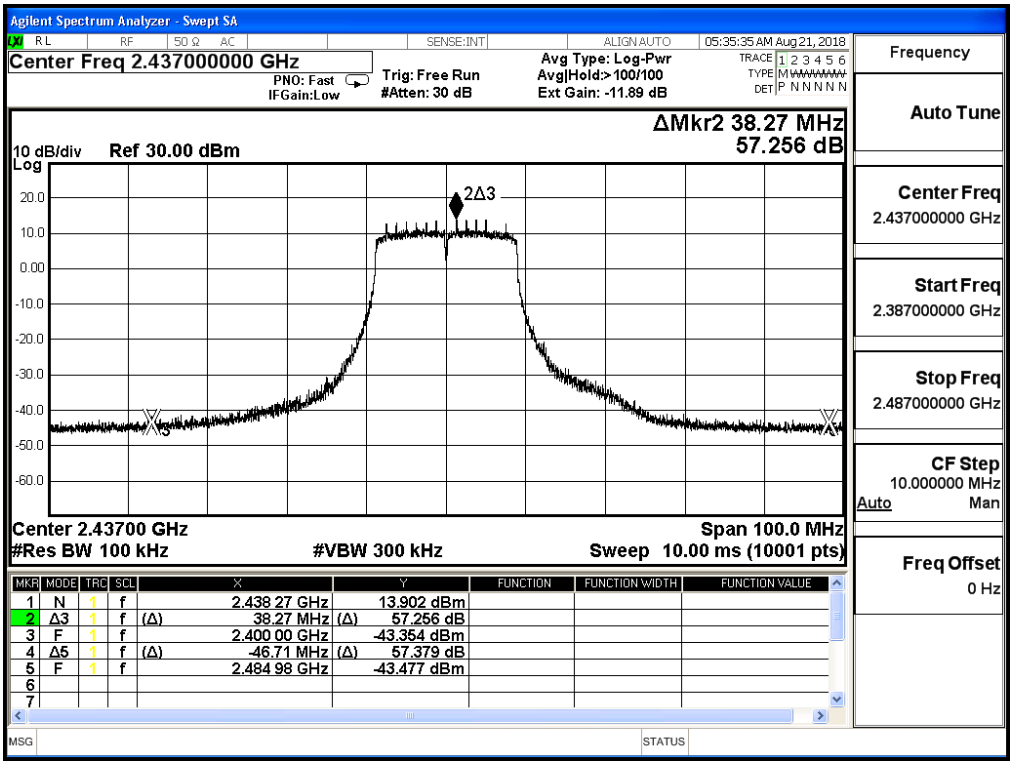
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.270	≧30	Pass
6	2437	50.850	≧30	Pass
11	2462	50.891	≧30	Pass

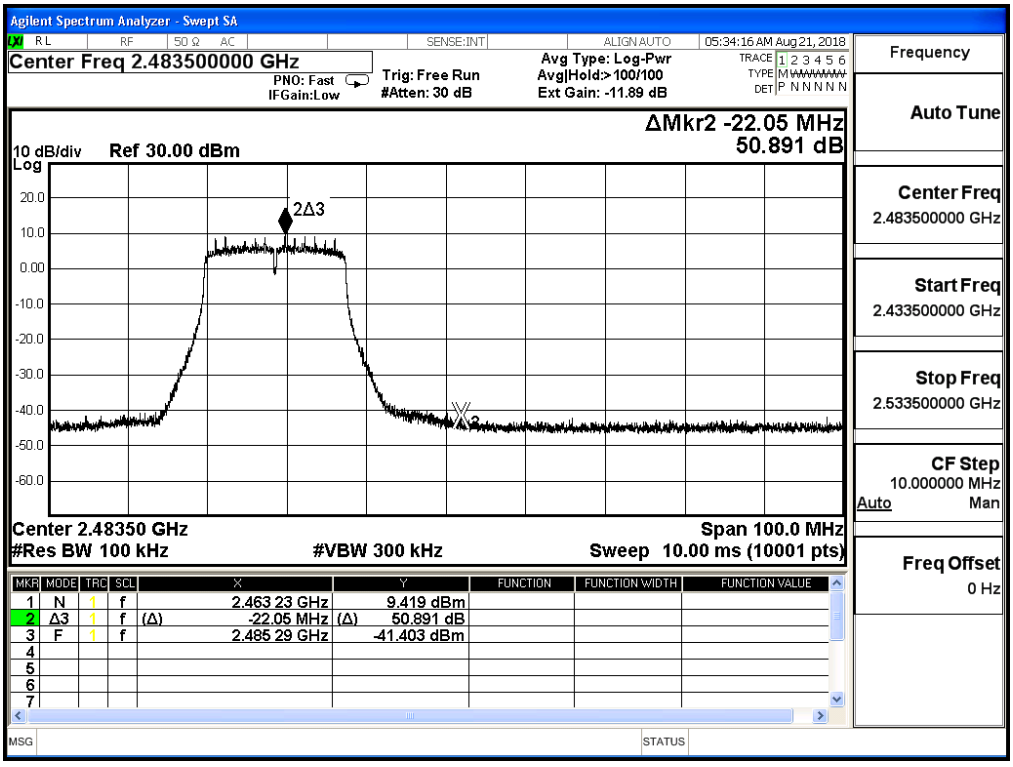
Channel 1 (2412MHz)



Channel 6 (2437MHz)



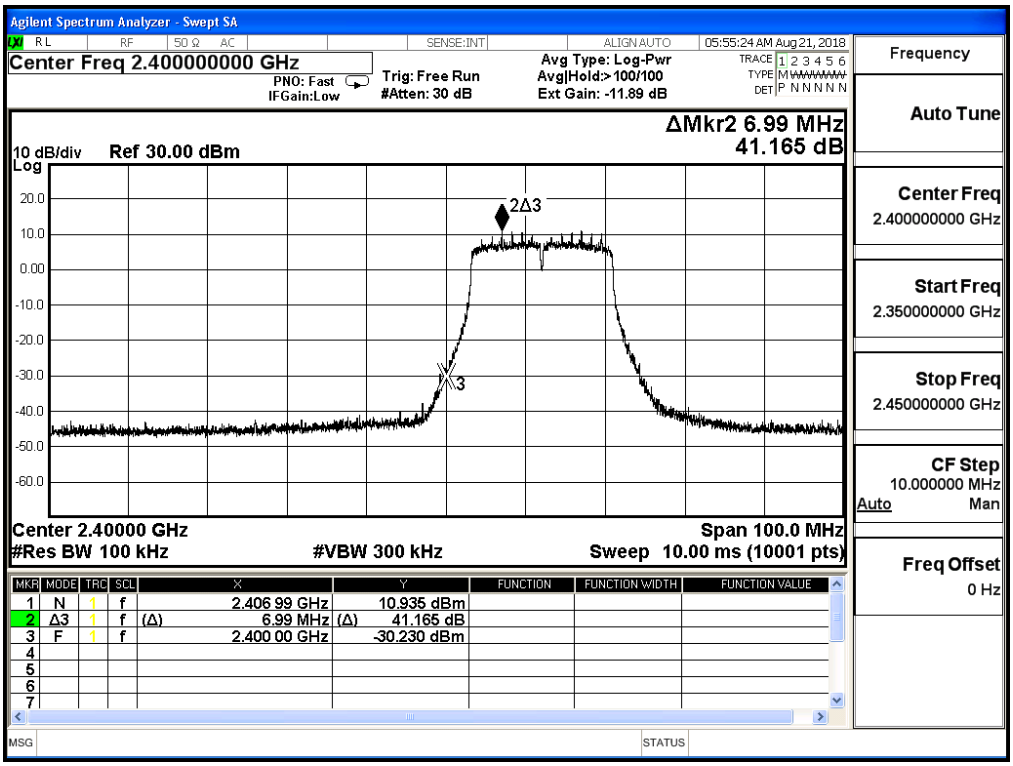
Channel 11 (2462MHz)



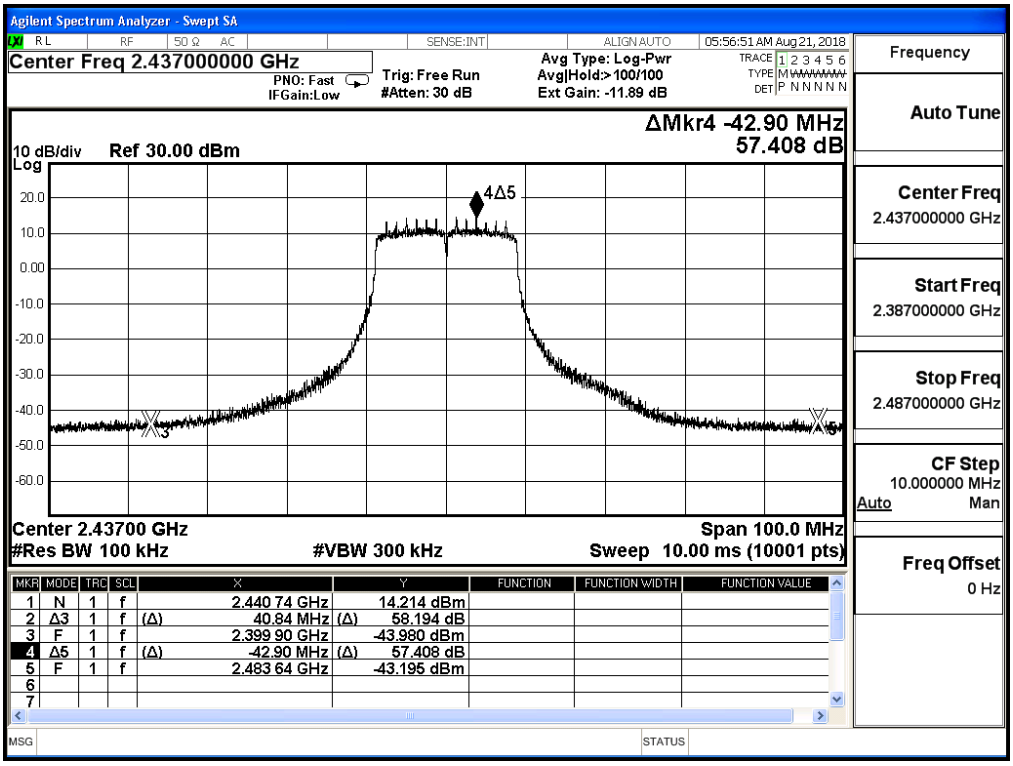
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 20M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.165	≧30	Pass
6	2437	51.070	≧30	Pass
11	2462	50.010	≧30	Pass

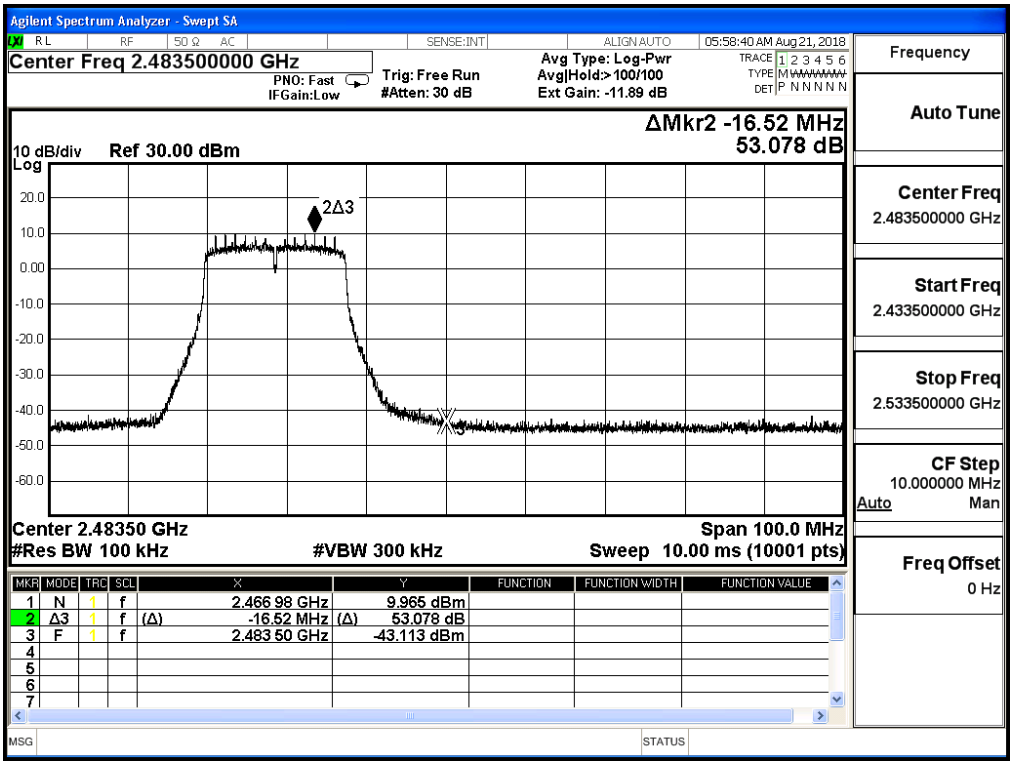
Channel 1 (2412MHz)



Channel 6 (2437MHz)



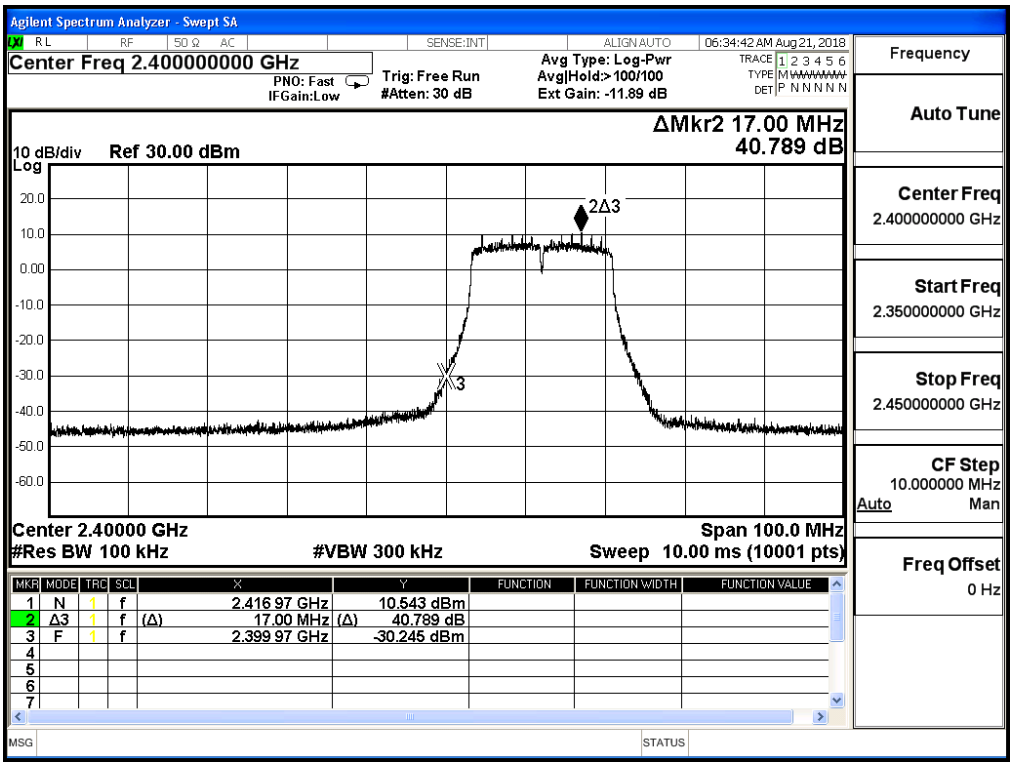
Channel 11 (2462MHz)



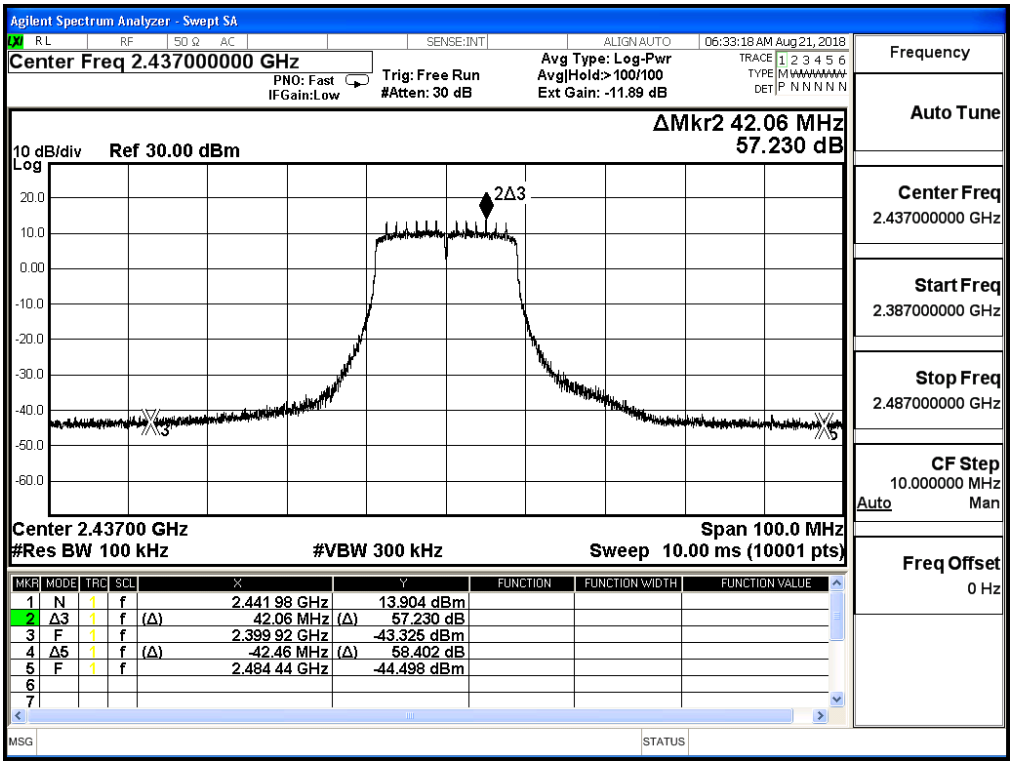
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 20M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.789	≧30	Pass
6	2437	47.940	≧30	Pass
11	2462	45.770	≧30	Pass

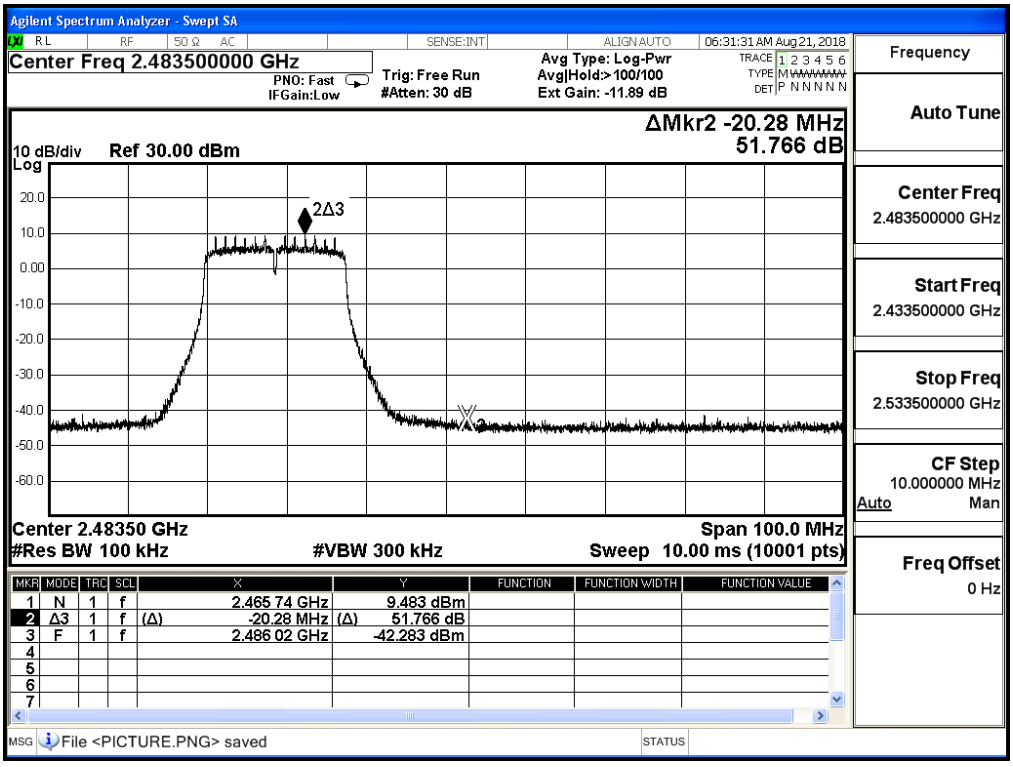
Channel 1 (2412MHz)



Channel 6 (2437MHz)



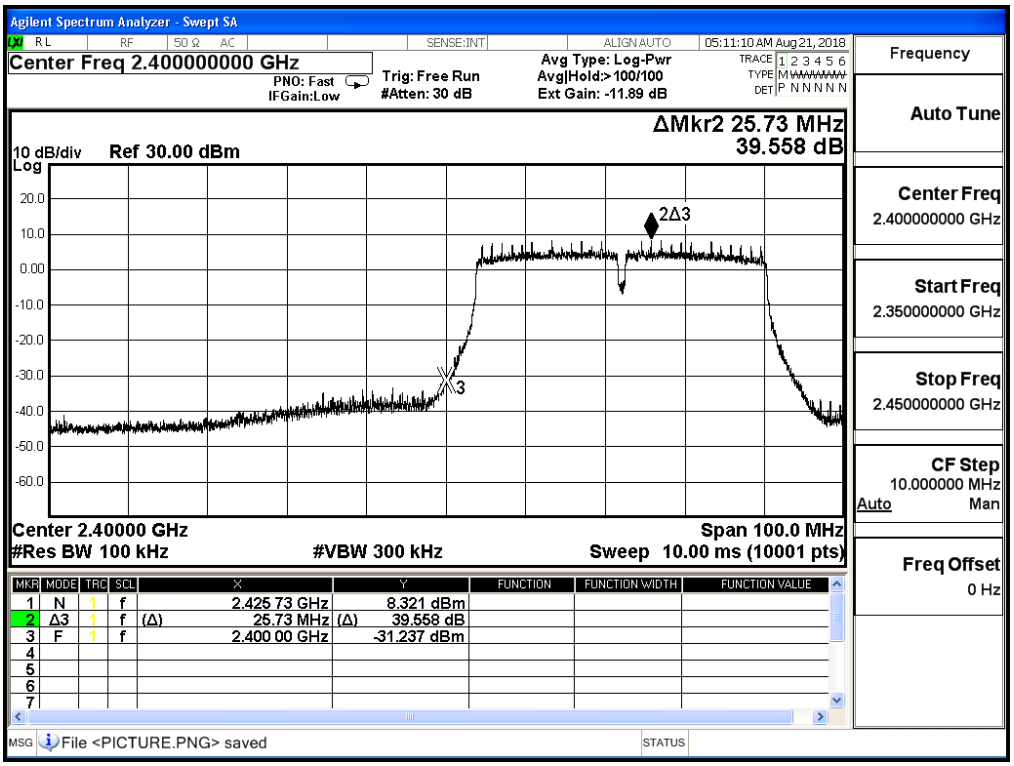
Channel 11 (2462MHz)



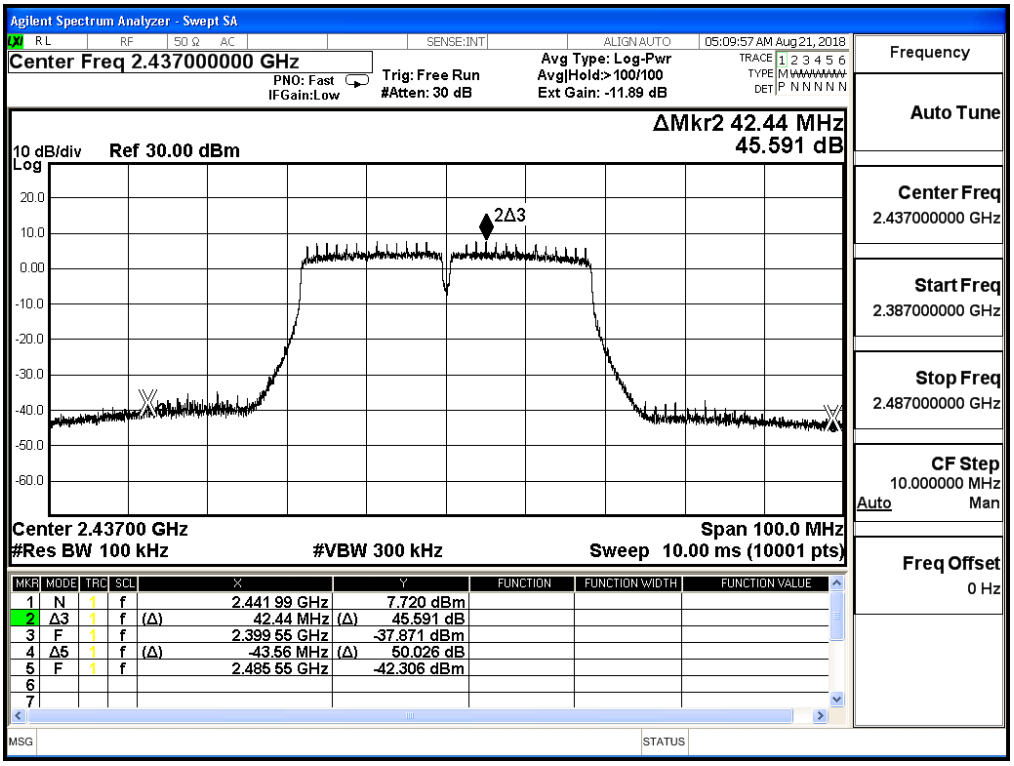
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.558	≧30	Pass
6	2437	45.591	≧30	Pass
9	2452	46.254	≧30	Pass

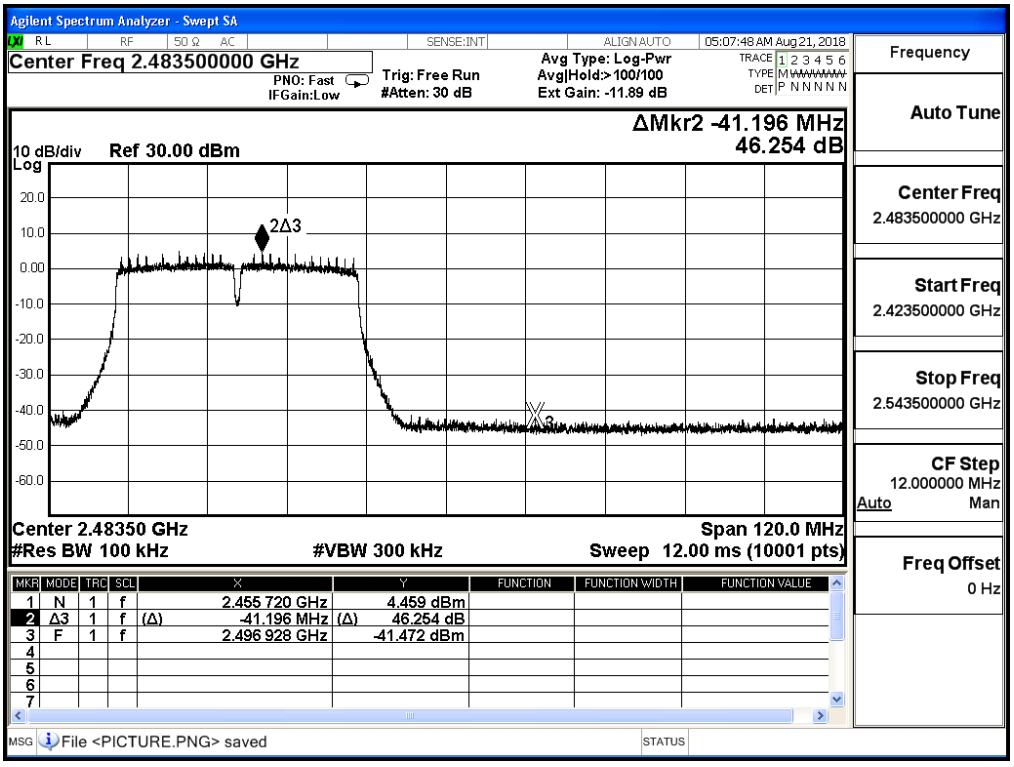
Channel 3 (2422MHz)



Channel 6 (2437MHz)



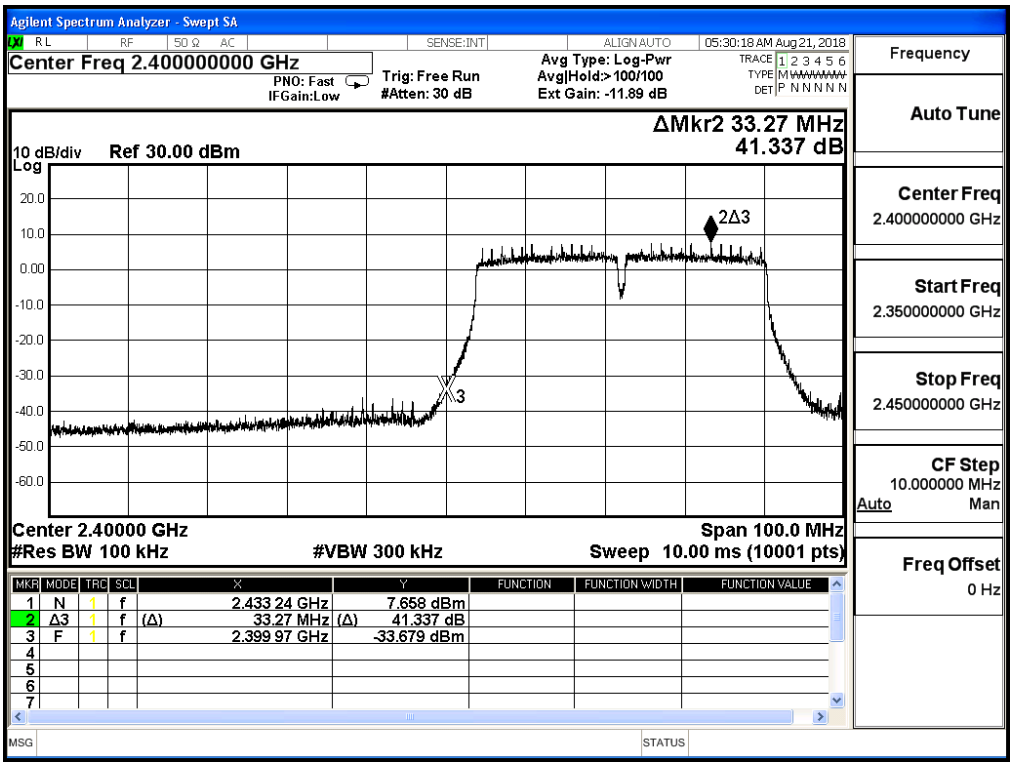
Channel 9 (2452MHz)



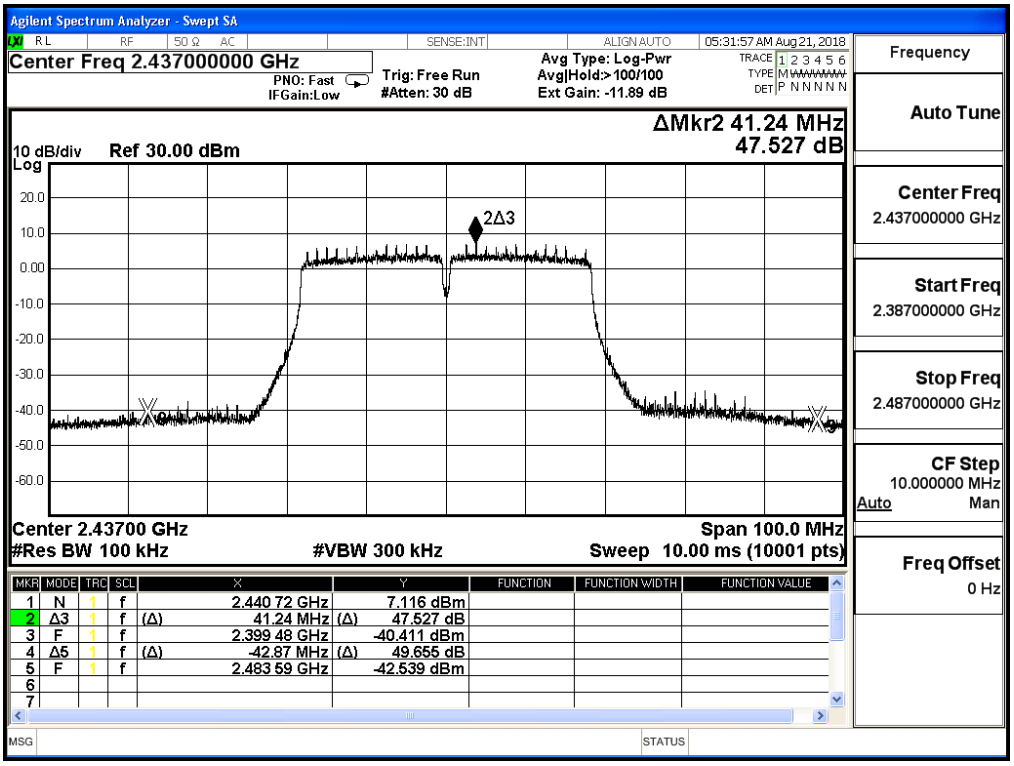
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.337	≧30	Pass
6	2437	47.527	≧30	Pass
9	2452	44.992	≧30	Pass

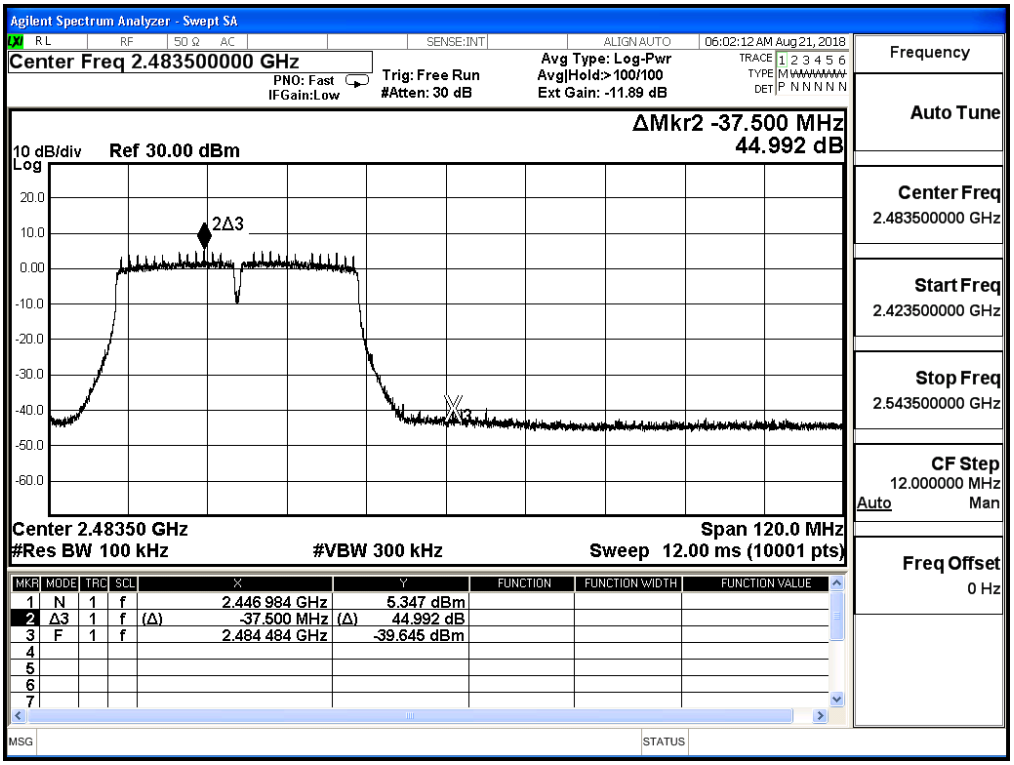
Channel 3 (2422MHz)



Channel 6 (2437MHz)



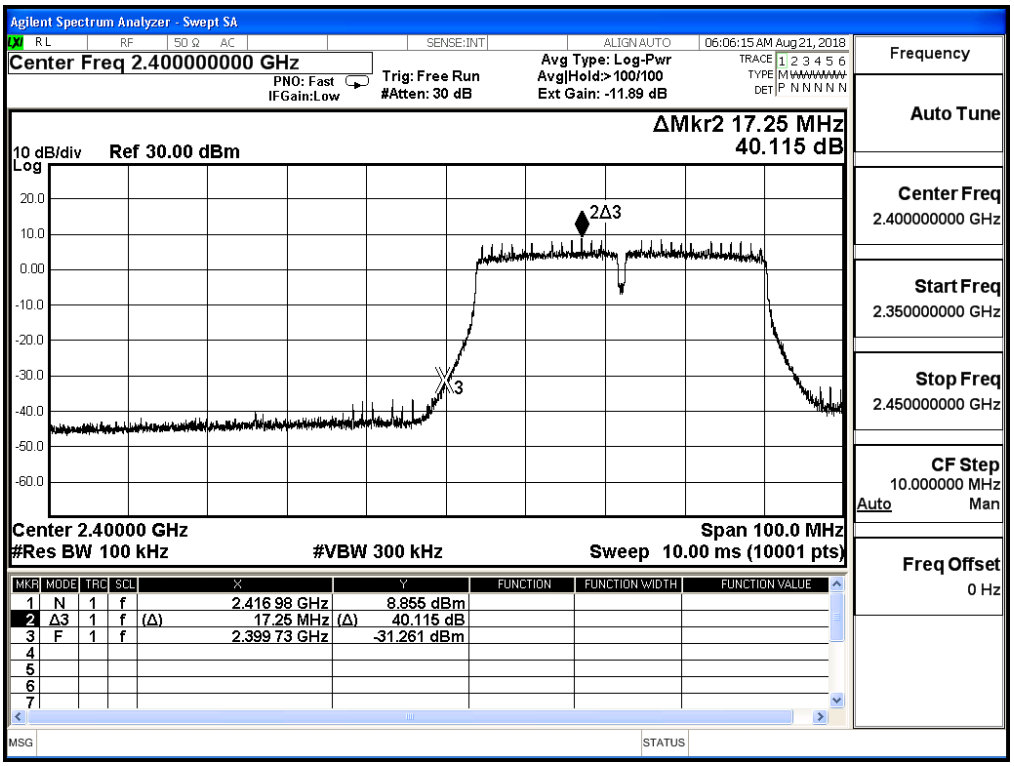
Channel 9 (2452MHz)



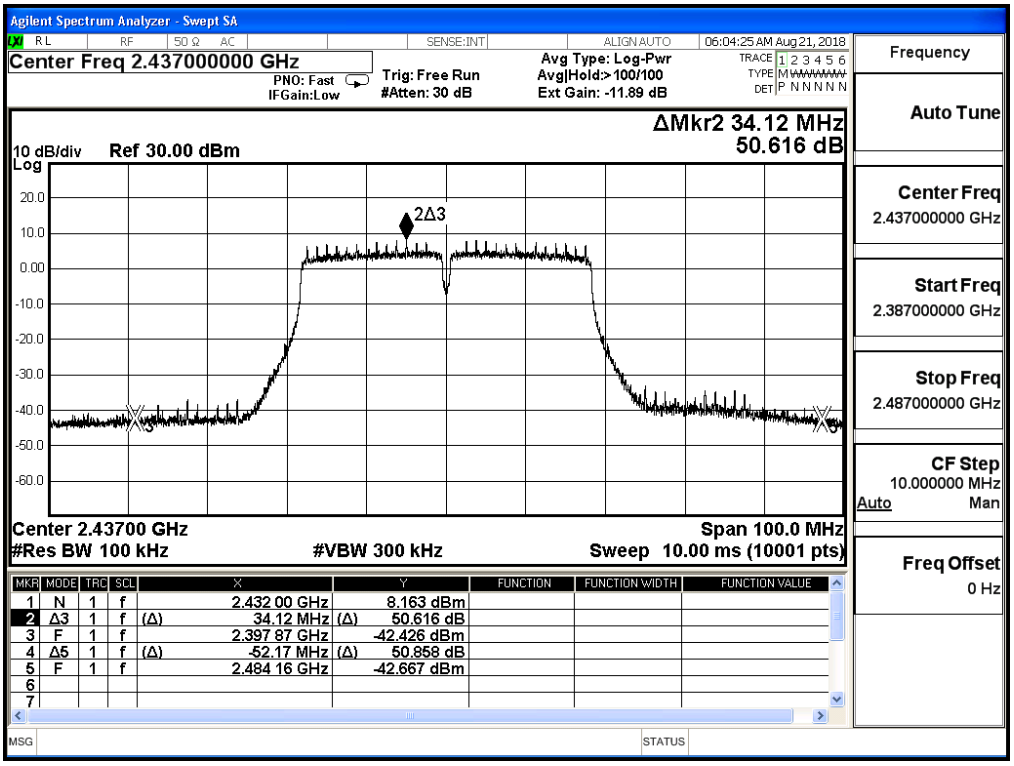
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 40M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.115	≧30	Pass
6	2437	50.616	≧30	Pass
9	2452	44.992	≧30	Pass

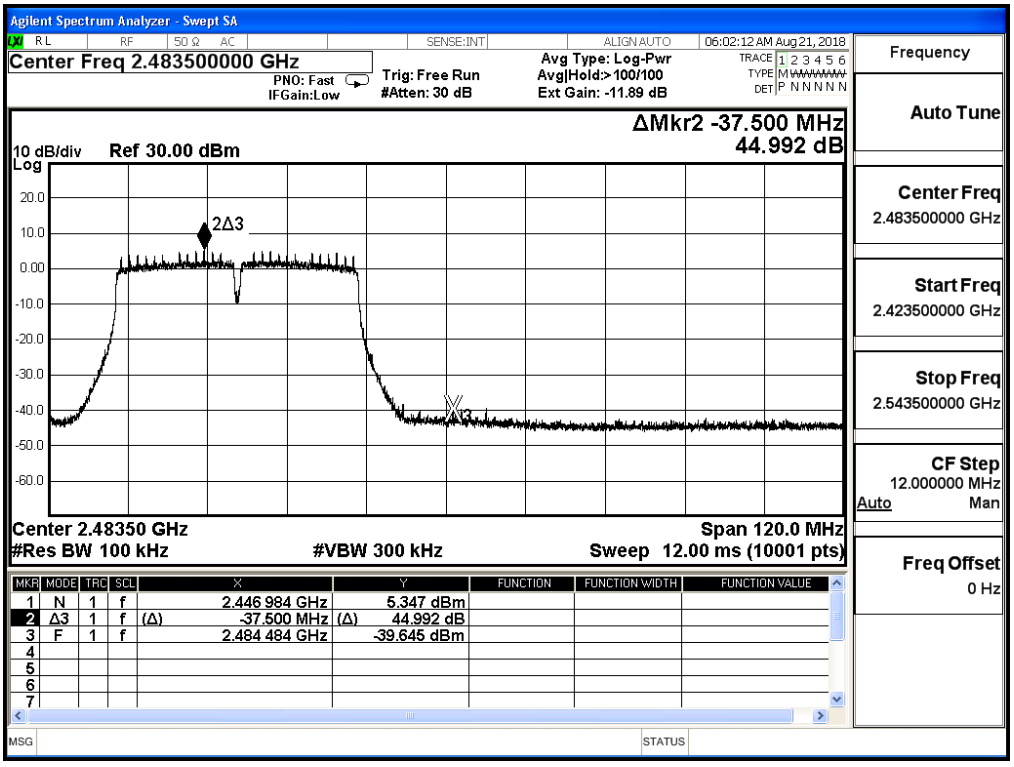
Channel 3 (2422MHz)



Channel 6 (2437MHz)



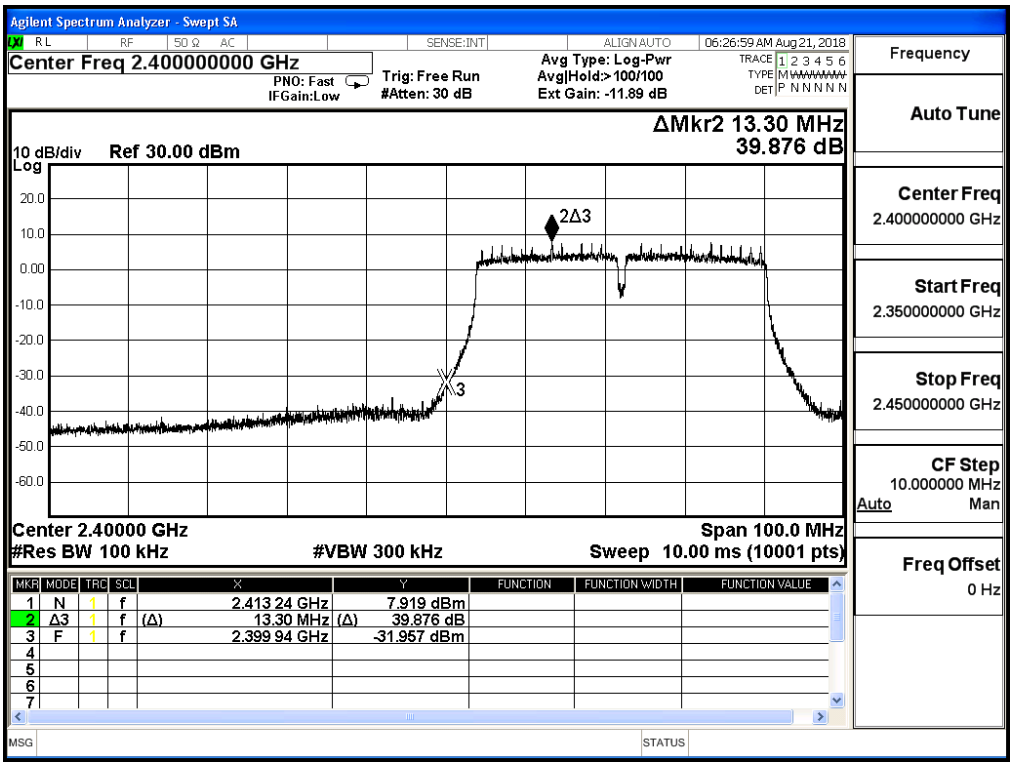
Channel 9 (2452MHz)



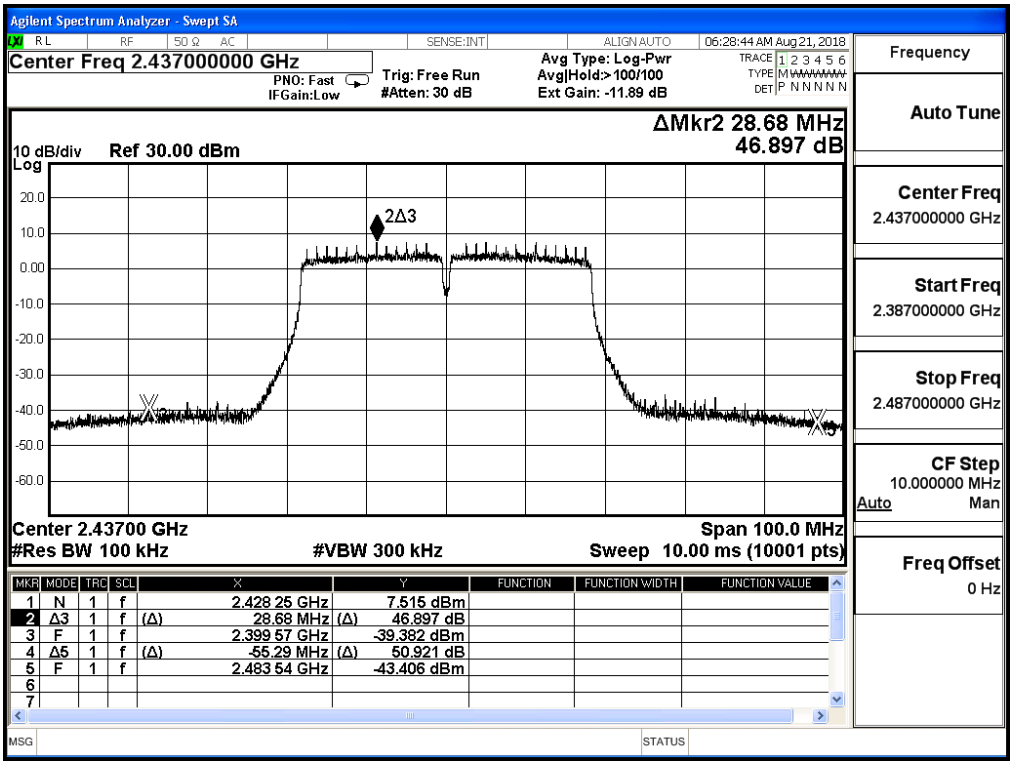
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ac VHT 40M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.876	≧30	Pass
6	2437	46.897	≧30	Pass
9	2452	47.054	≧30	Pass

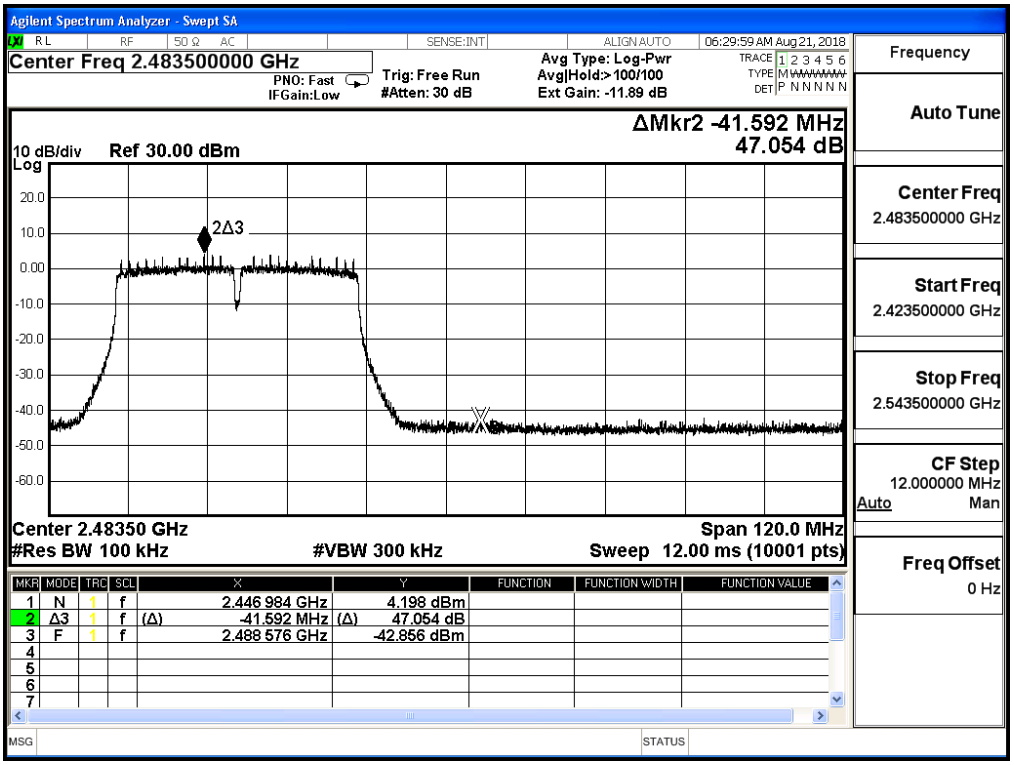
Channel 3 (2422MHz)



Channel 6 (2437MHz)



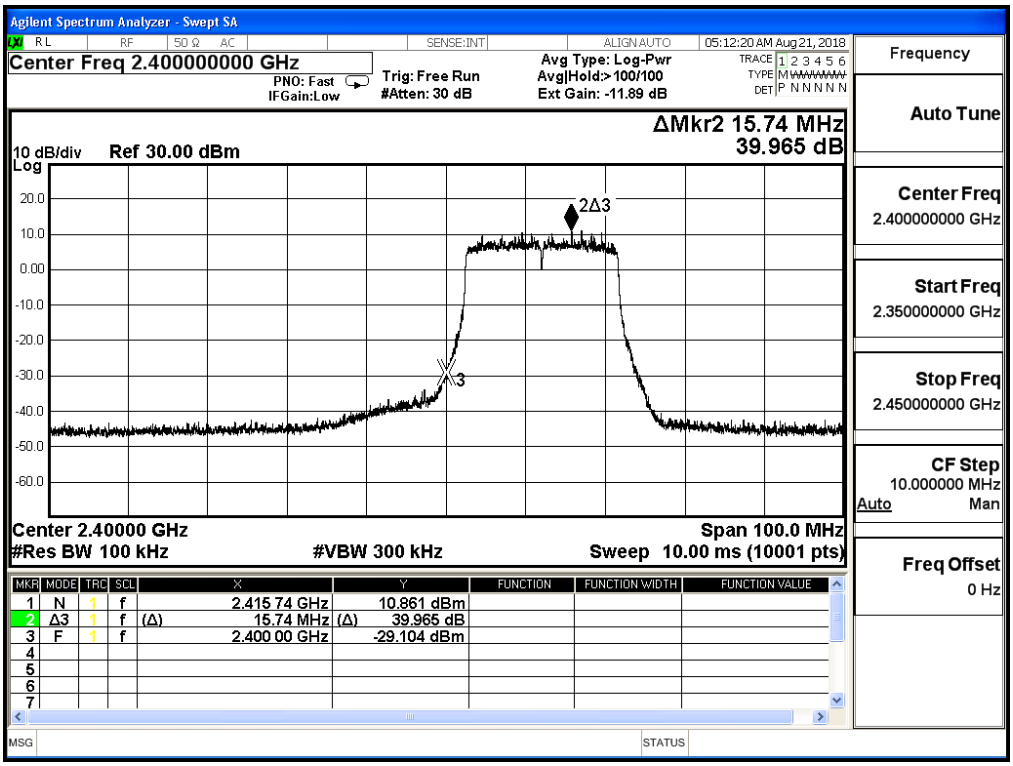
Channel 9 (2452MHz)



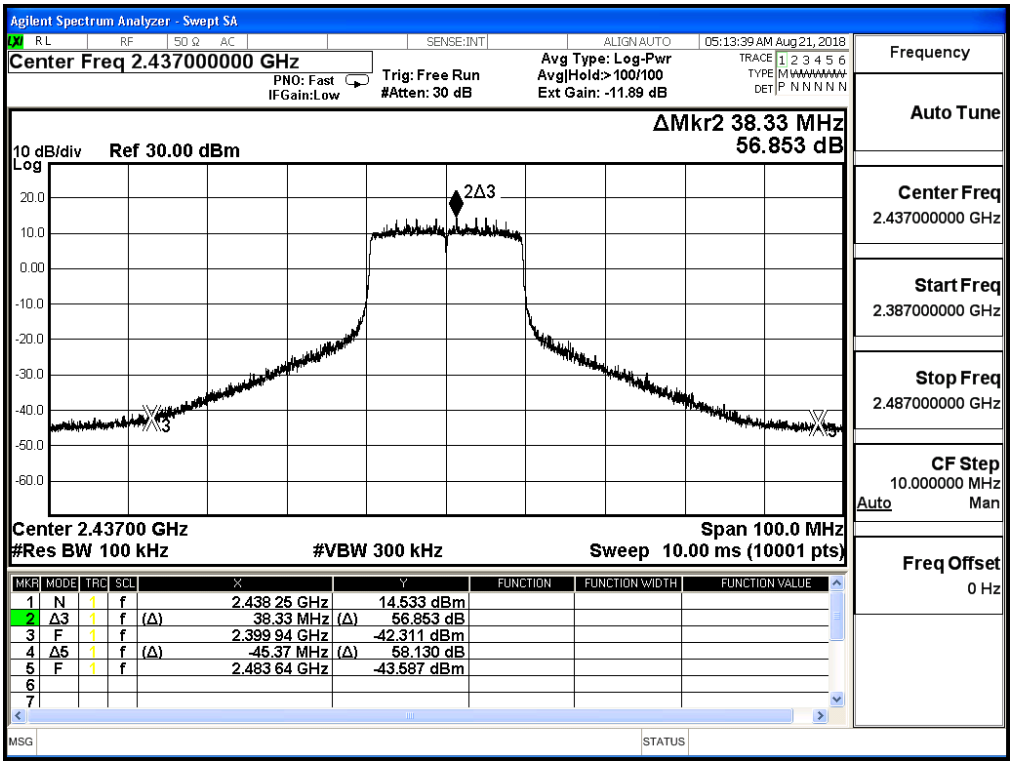
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.965	≧30	Pass
6	2437	50.480	≧30	Pass
11	2462	49.470	≧30	Pass

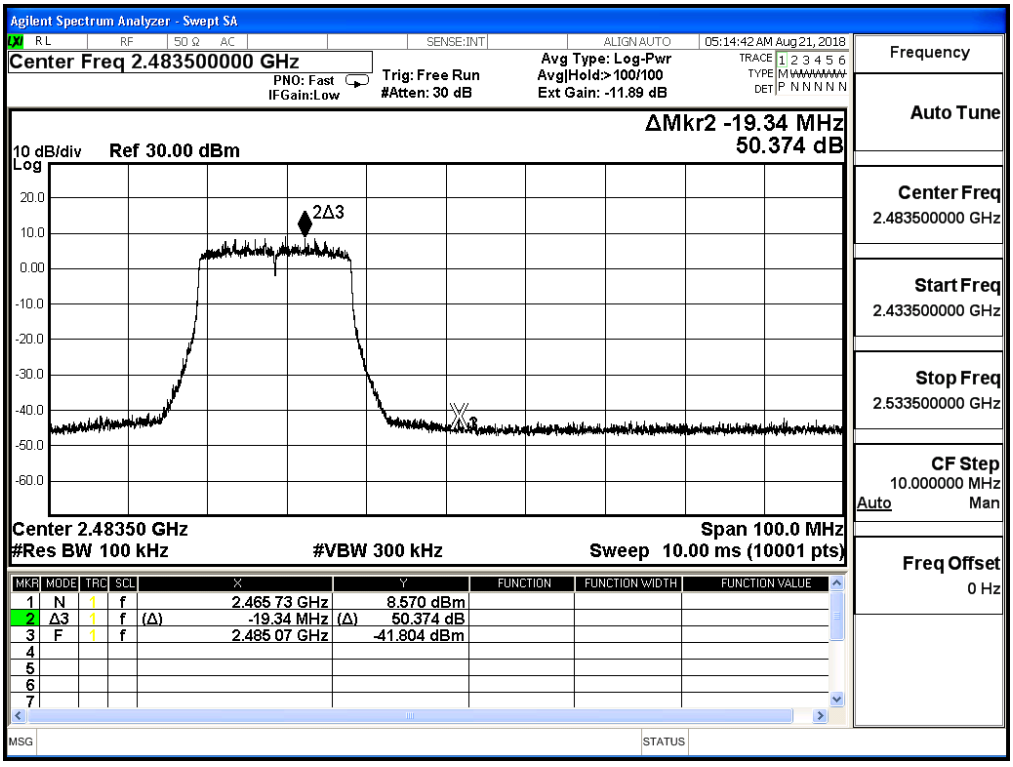
Channel 1 (2412MHz)



Channel 6 (2437MHz)



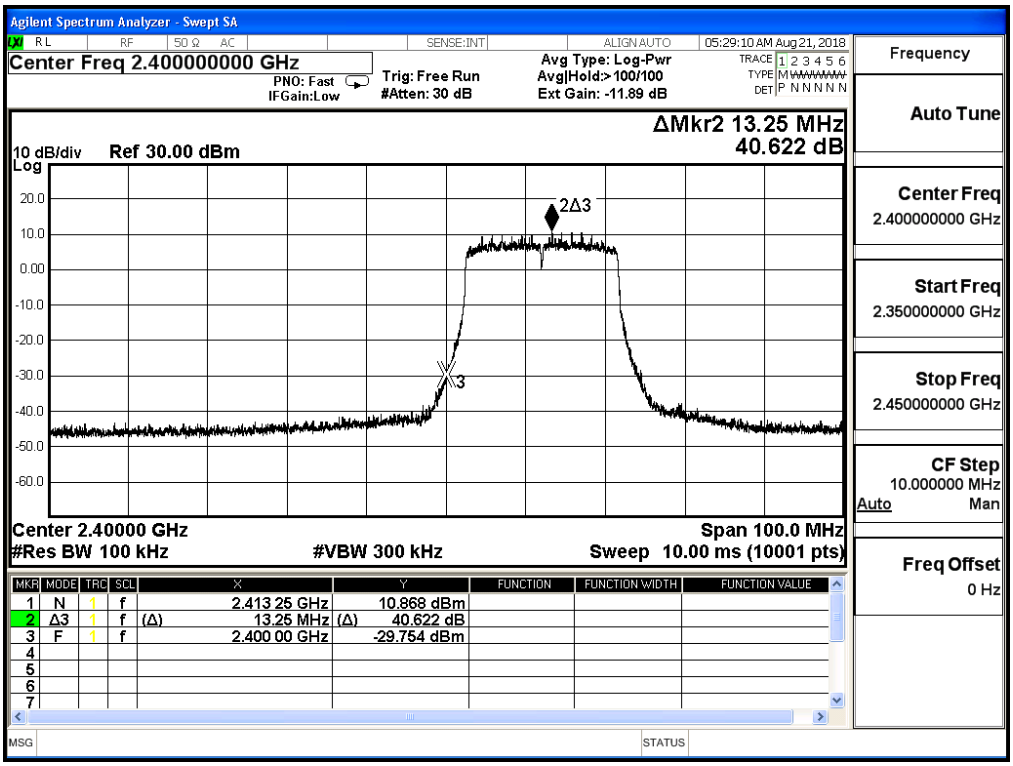
Channel 11 (2462MHz)



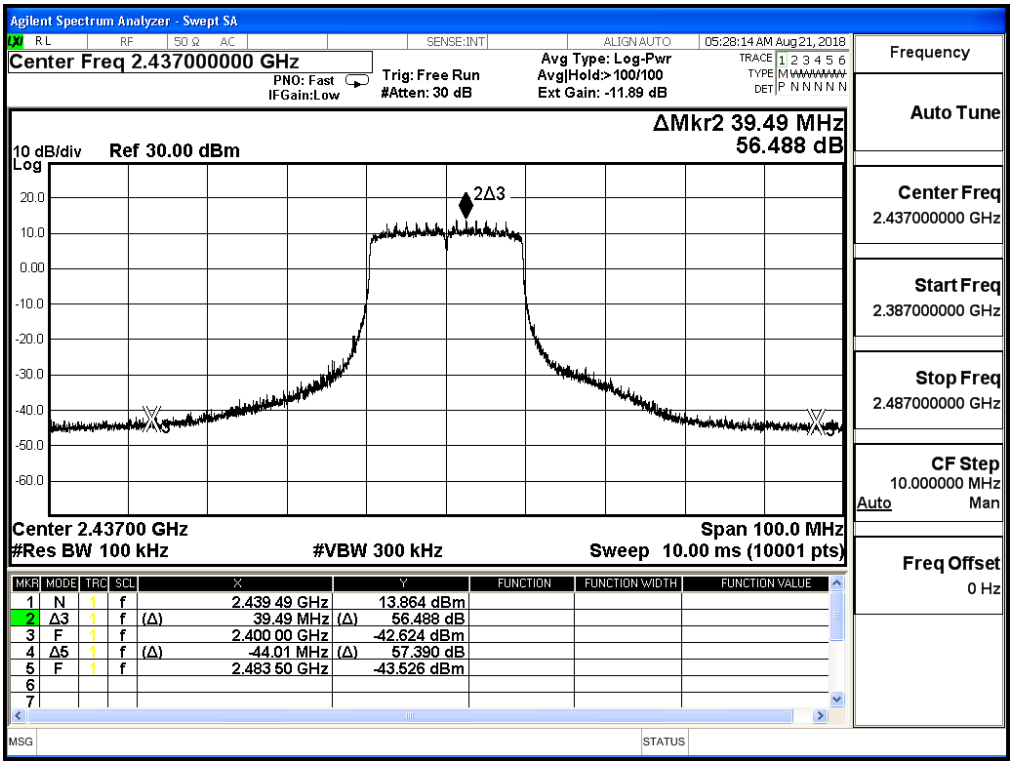
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.622	≧30	Pass
6	2437	52.410	≧30	Pass
11	2462	50.560	≧30	Pass

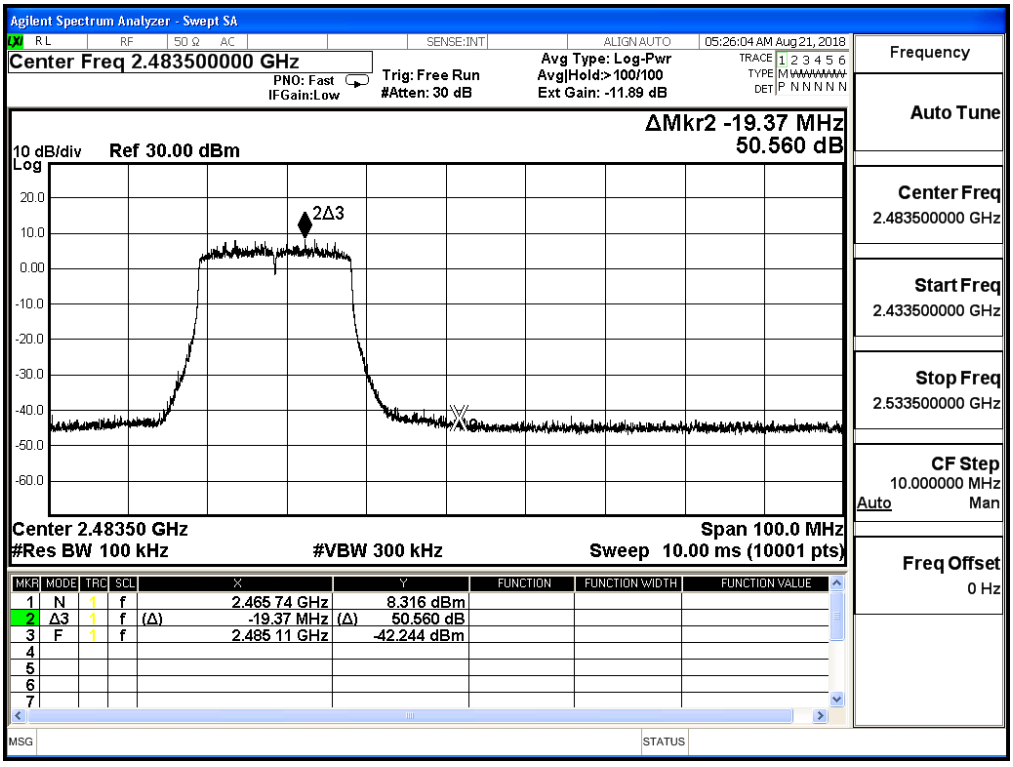
Channel 1 (2412MHz)



Channel 6 (2437MHz)



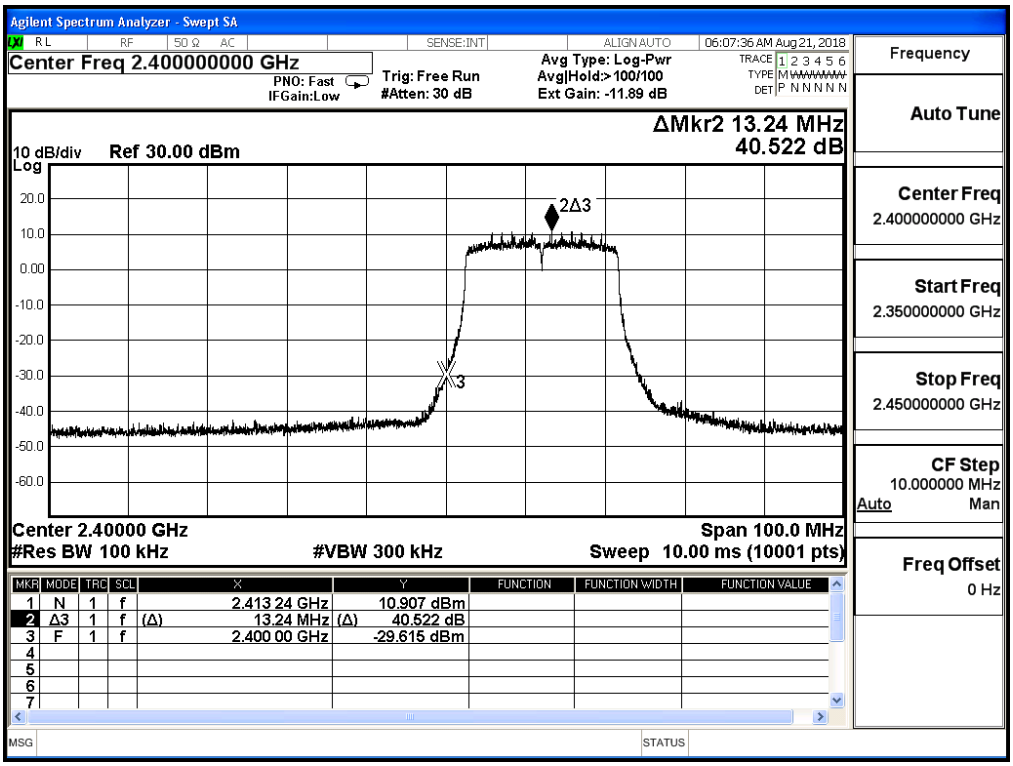
Channel 11 (2462MHz)



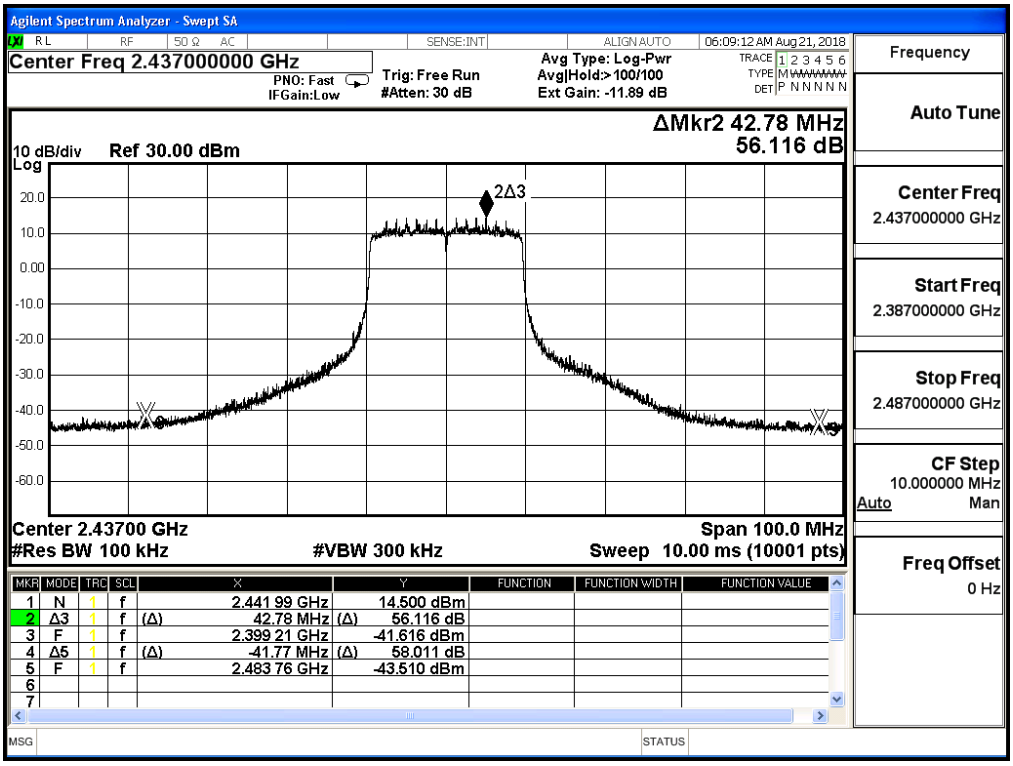
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 20M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.522	≧30	Pass
6	2437	49.360	≧30	Pass
11	2462	49.610	≧30	Pass

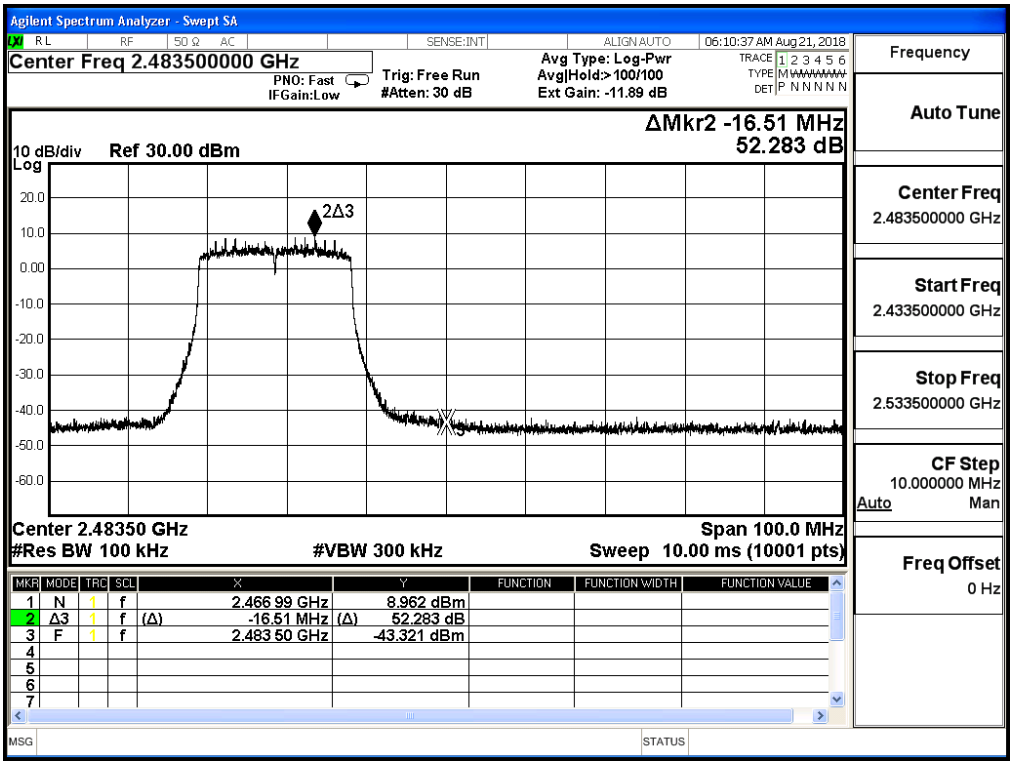
Channel 1 (2412MHz)



Channel 6 (2437MHz)



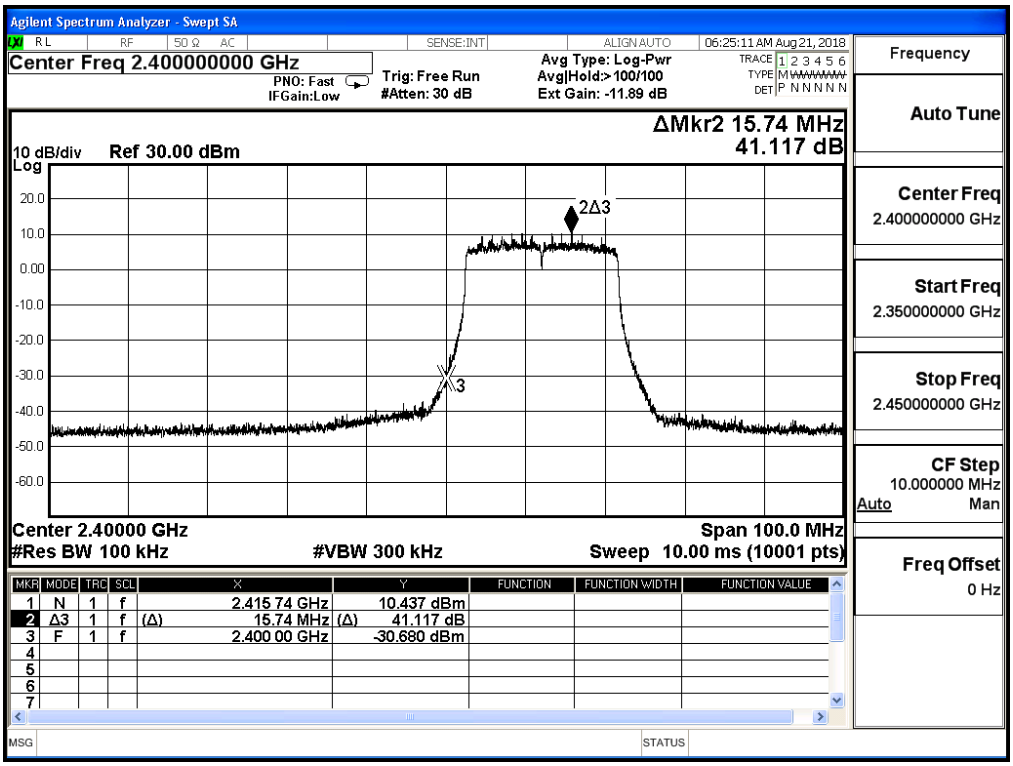
Channel 11 (2462MHz)



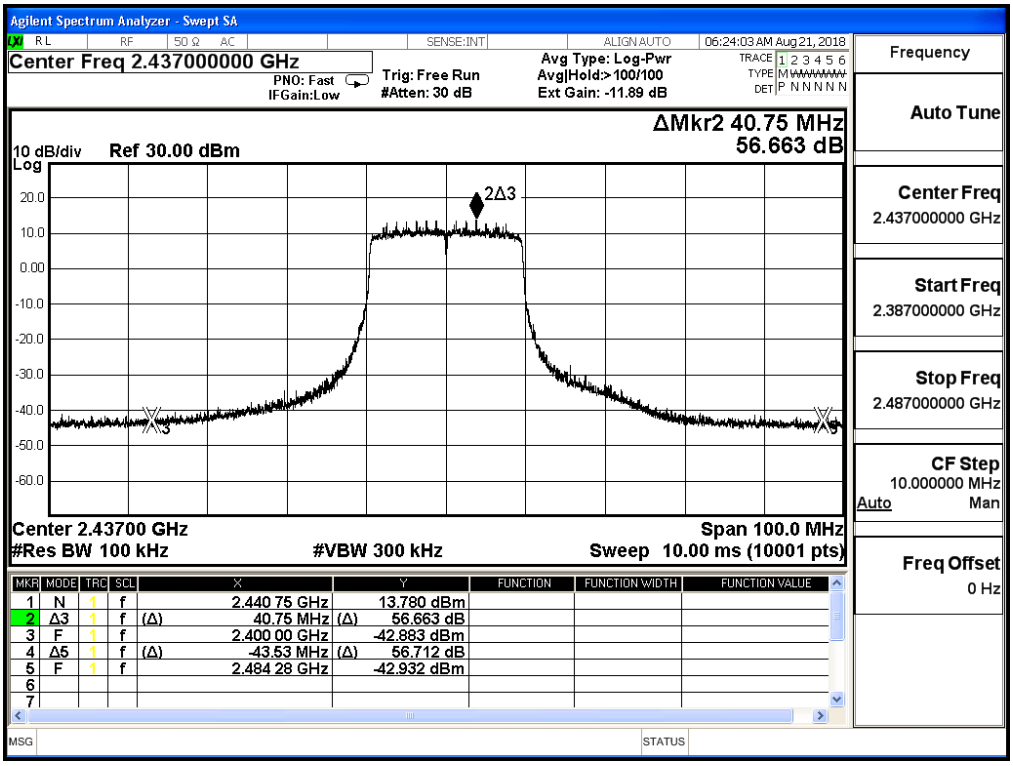
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 20M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.117	≧30	Pass
6	2437	43.580	≧30	Pass
11	2462	45.710	≧30	Pass

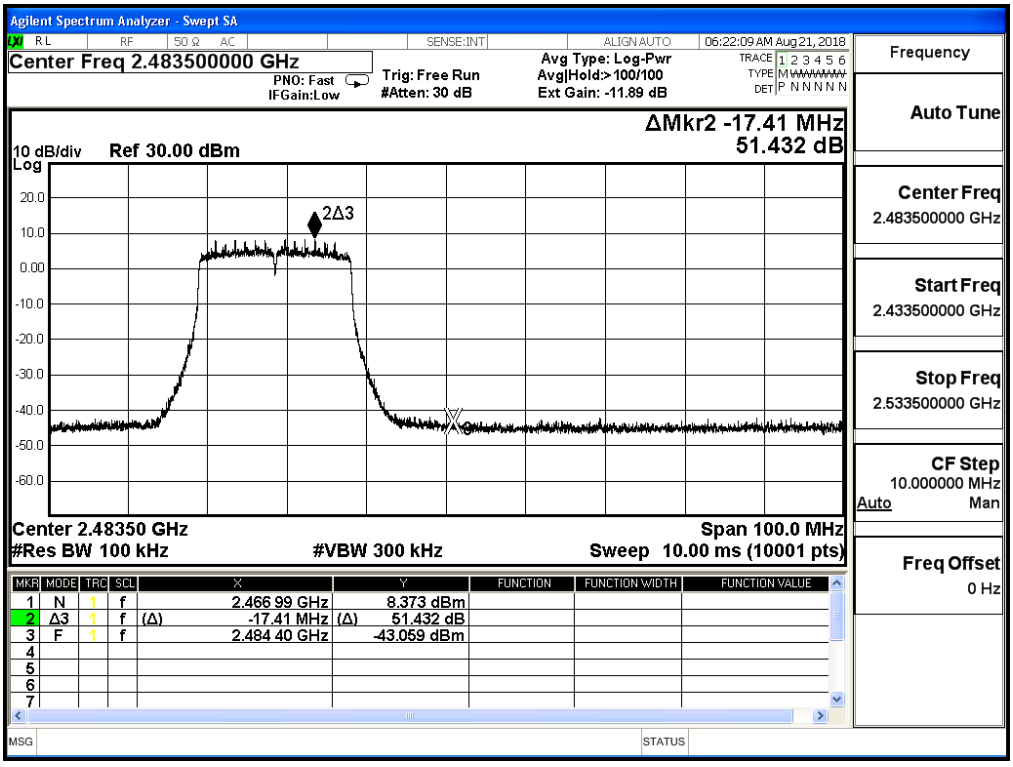
Channel 1 (2412MHz)



Channel 6 (2437MHz)



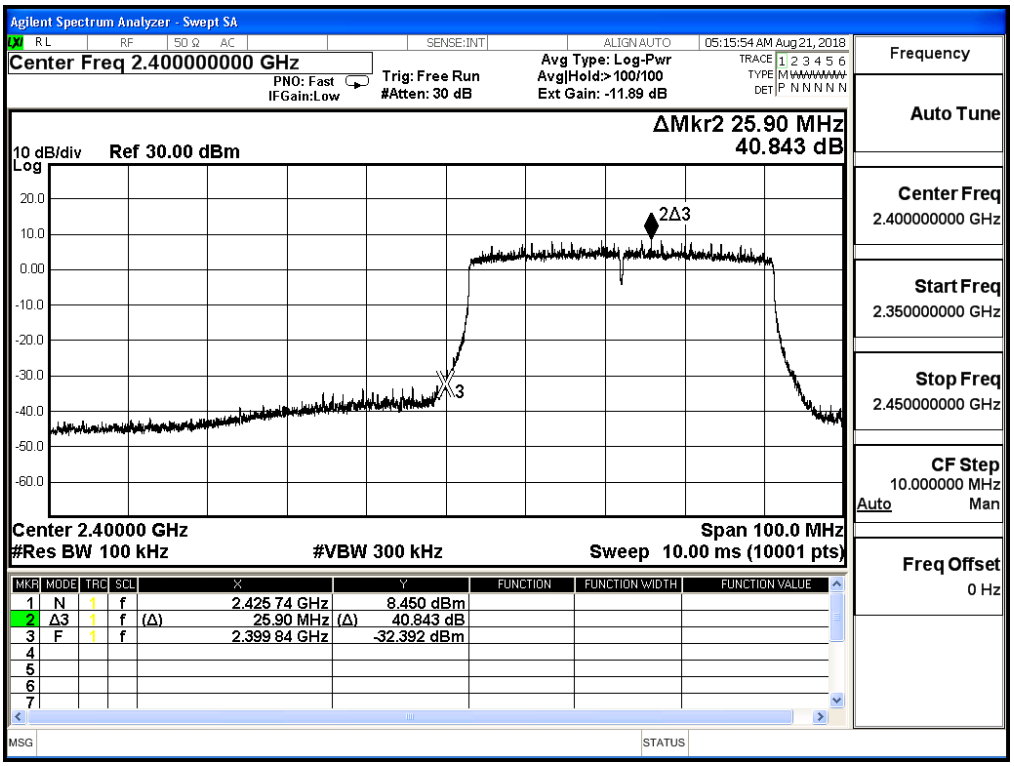
Channel 11 (2462MHz)



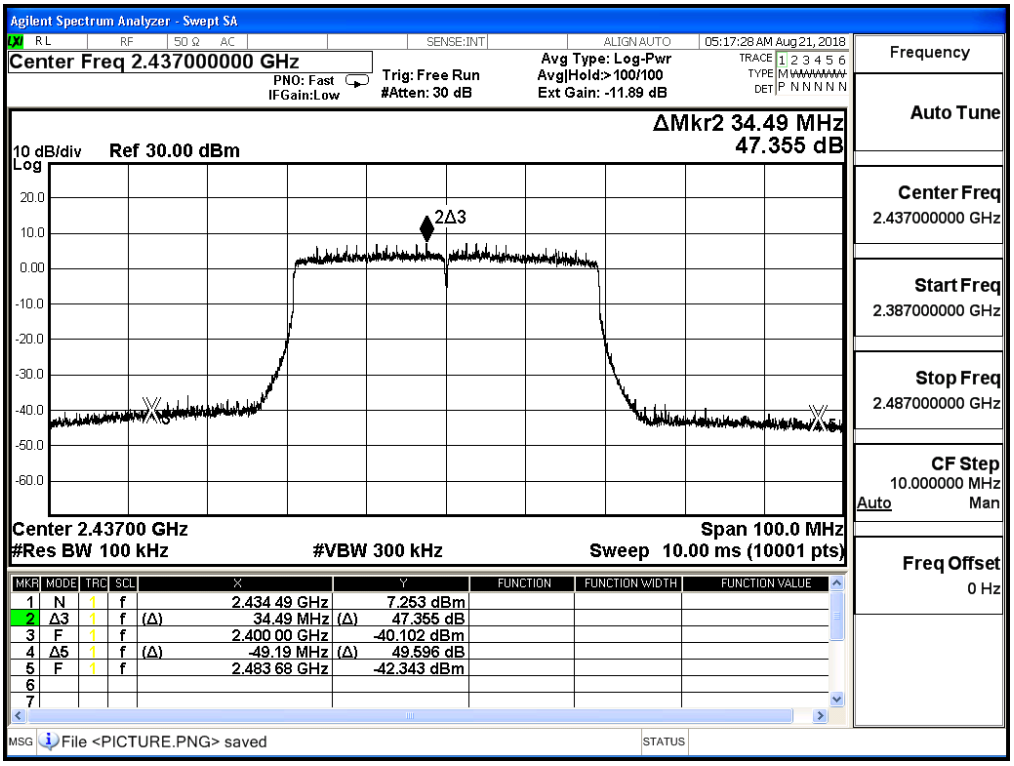
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.843	≧30	Pass
6	2437	47.355	≧30	Pass
9	2452	47.005	≧30	Pass

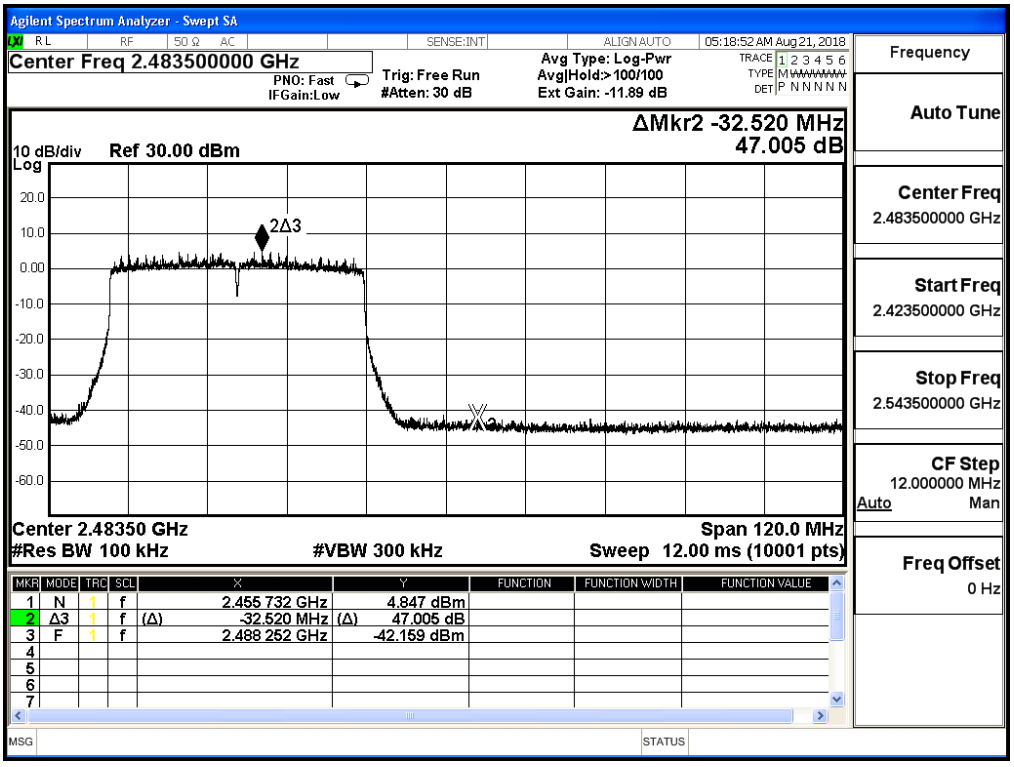
Channel 3 (2422MHz)



Channel 6 (2437MHz)



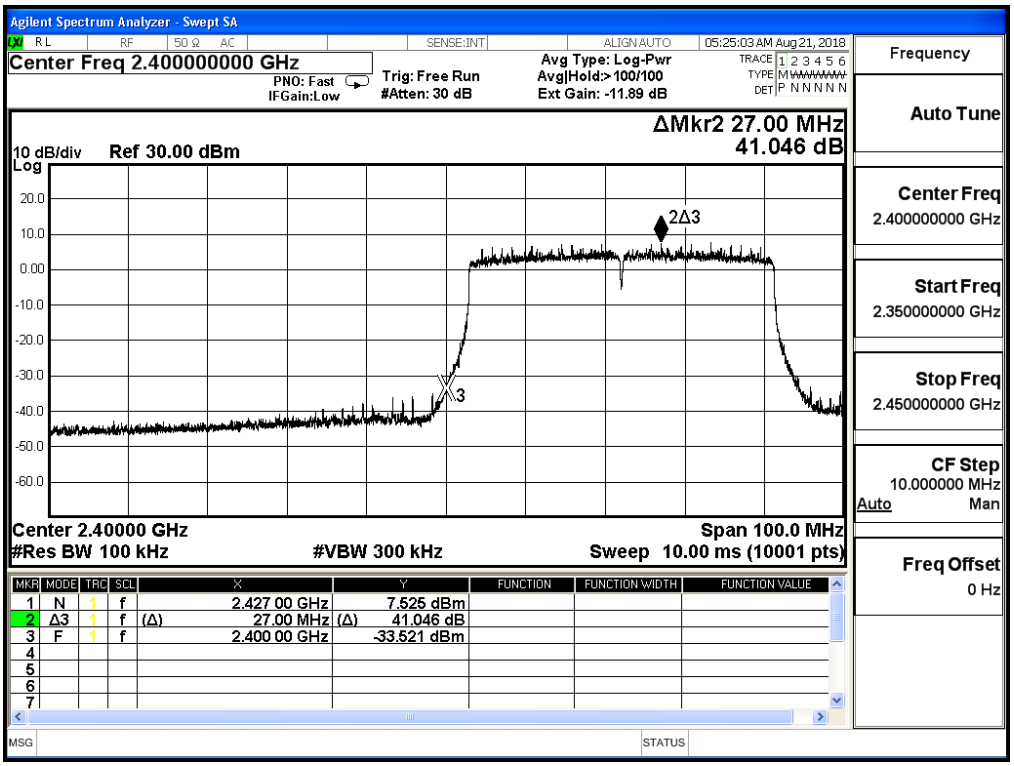
Channel 9 (2452MHz)



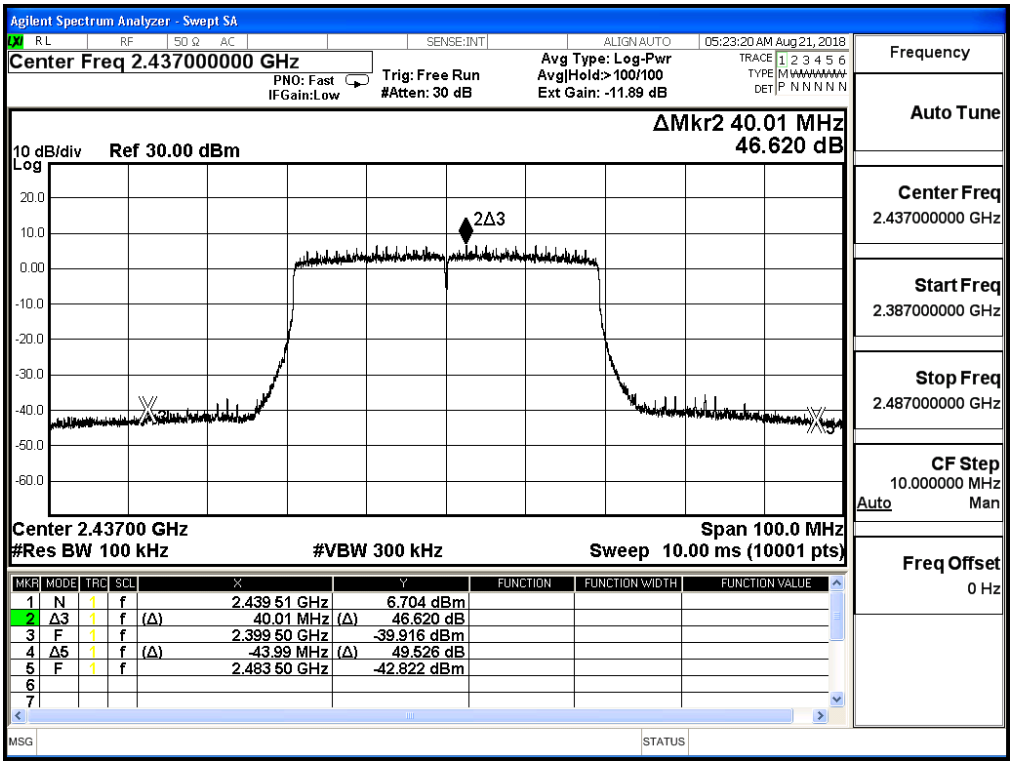
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.046	≧30	Pass
6	2437	46.620	≧30	Pass
9	2452	45.569	≧30	Pass

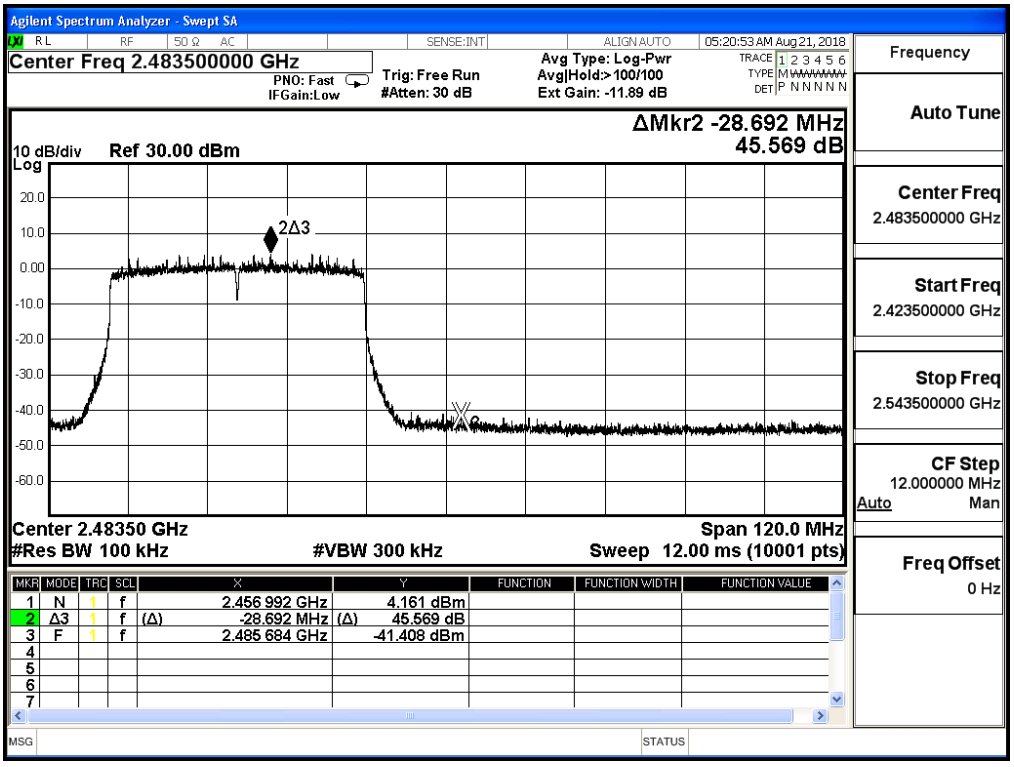
Channel 3 (2422MHz)



Channel 6 (2437MHz)



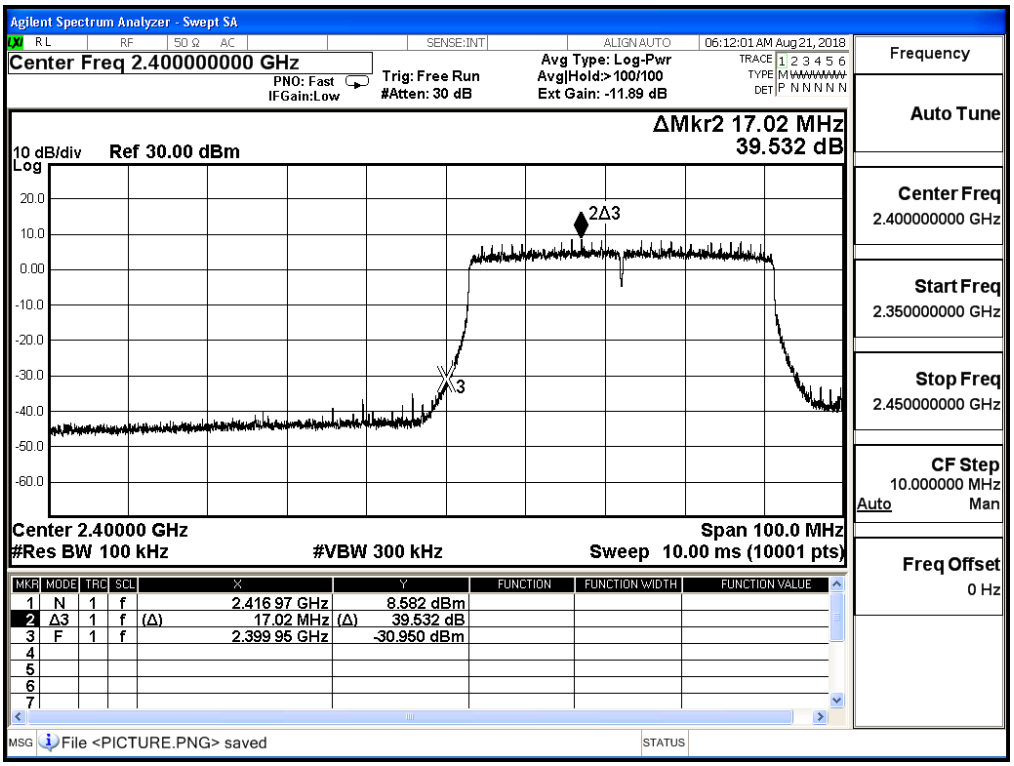
Channel 9 (2452MHz)



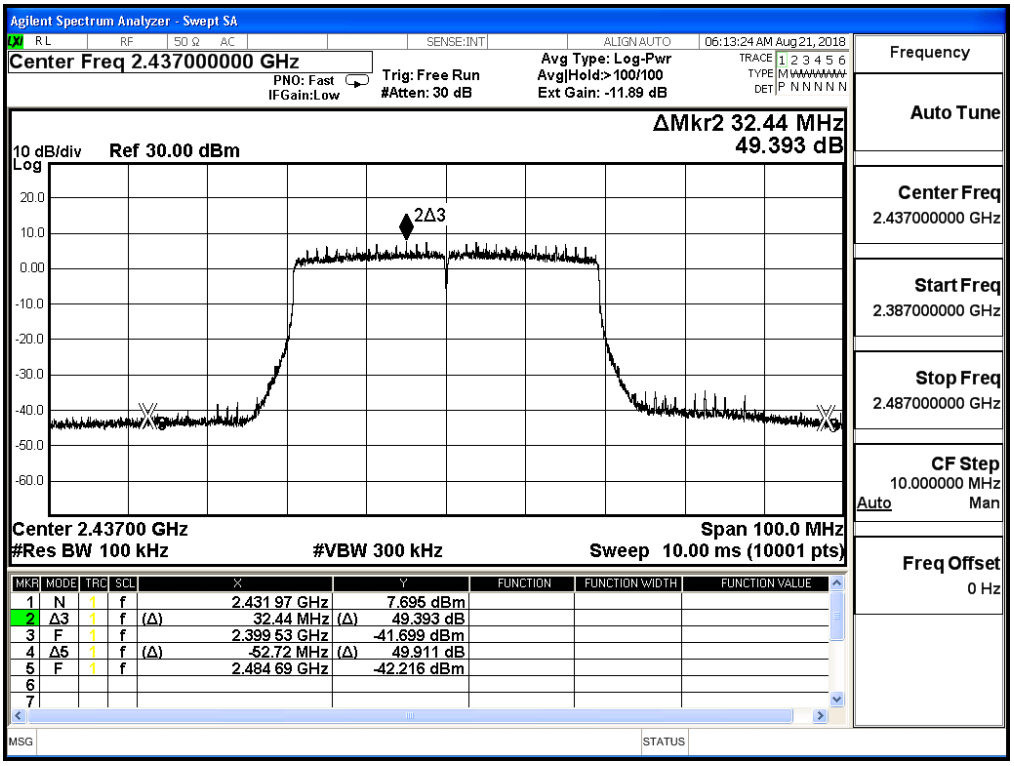
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 40M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.532	≧30	Pass
6	2437	47.020	≧30	Pass
9	2452	47.114	≧30	Pass

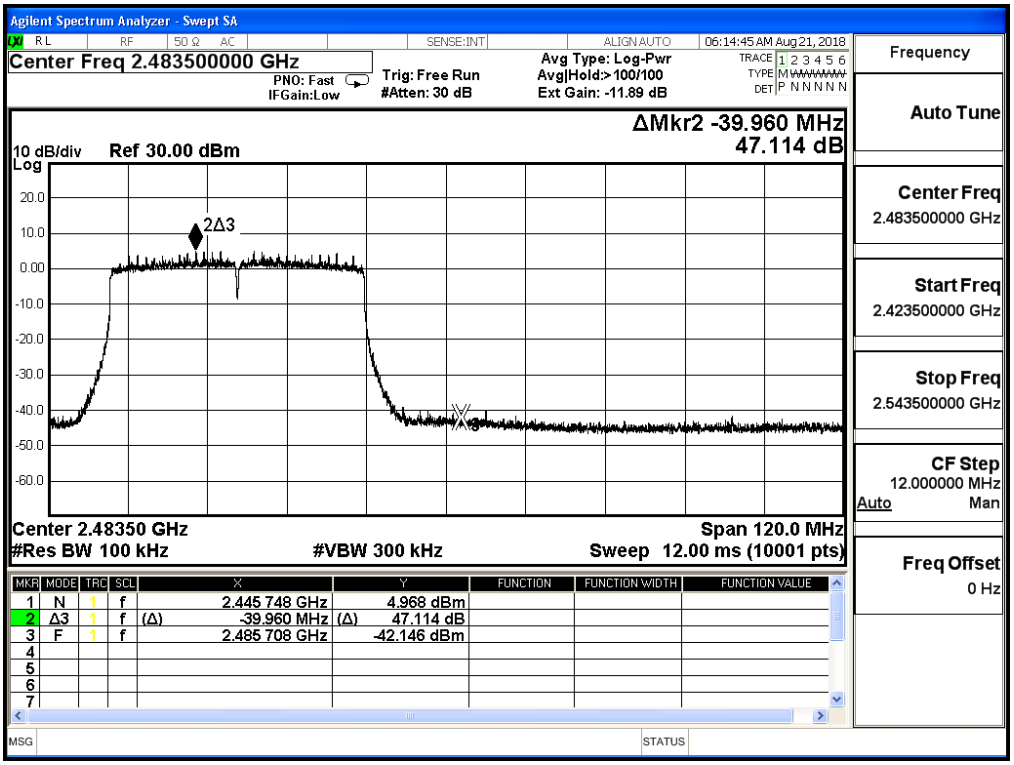
Channel 3 (2422MHz)



Channel 6 (2437MHz)



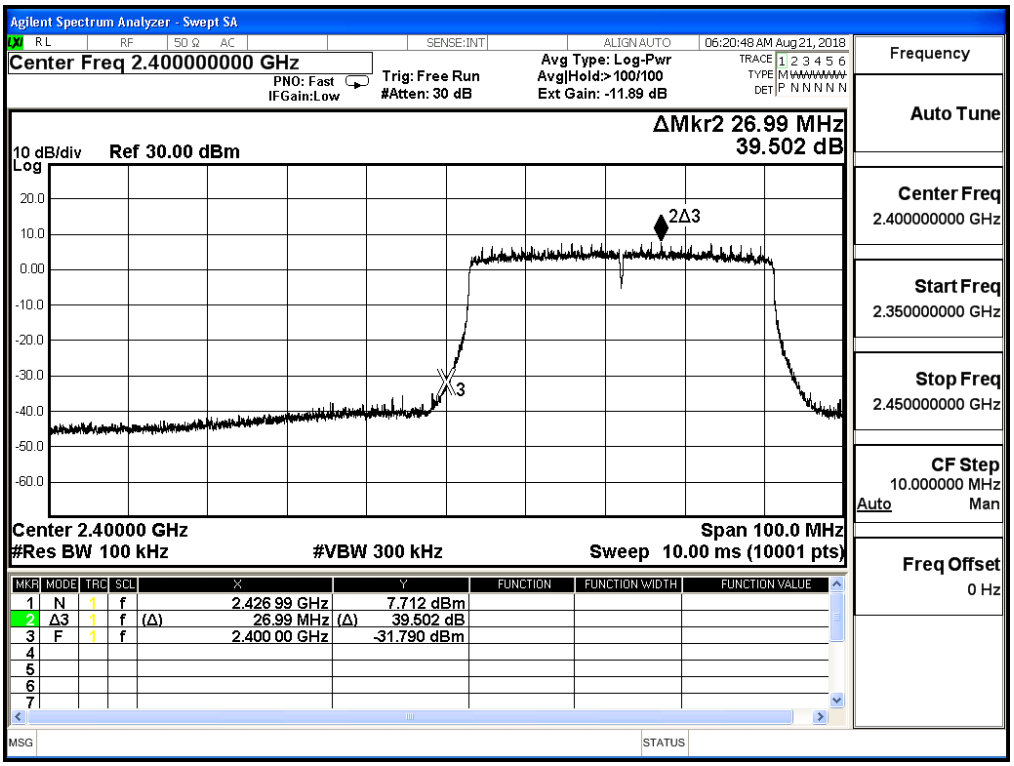
Channel 9 (2452MHz)



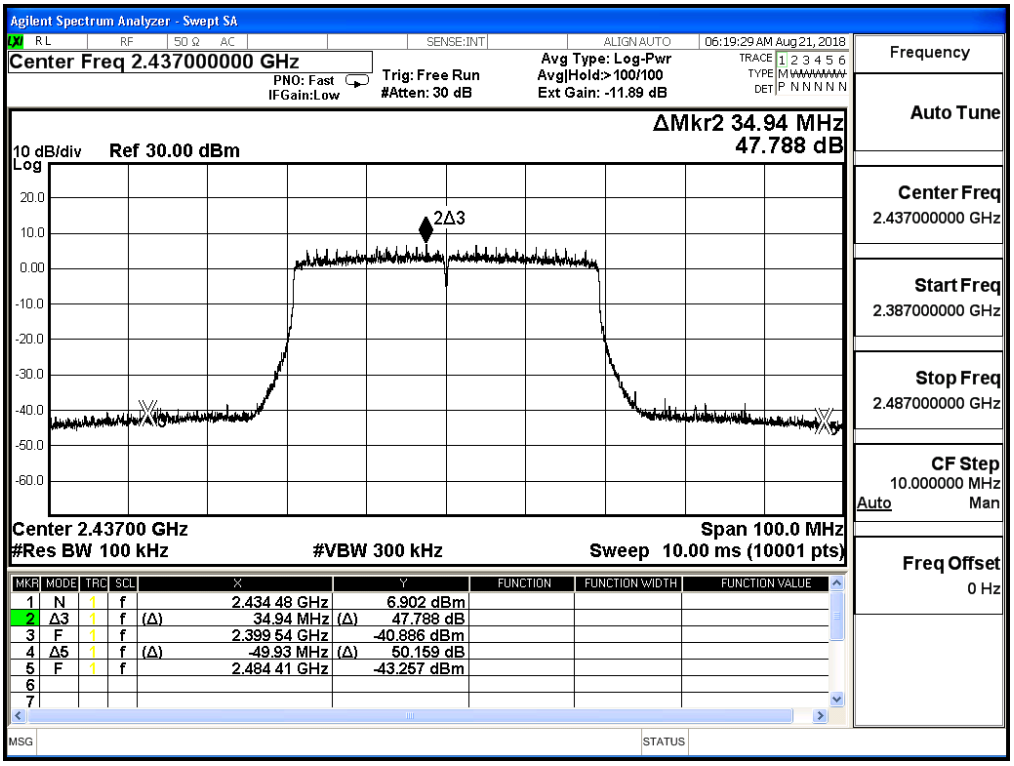
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/21	Test Site	SR10-H

IEEE 802.11ax HE 40M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.502	≧30	Pass
6	2437	47.788	≧30	Pass
9	2452	46.465	≧30	Pass

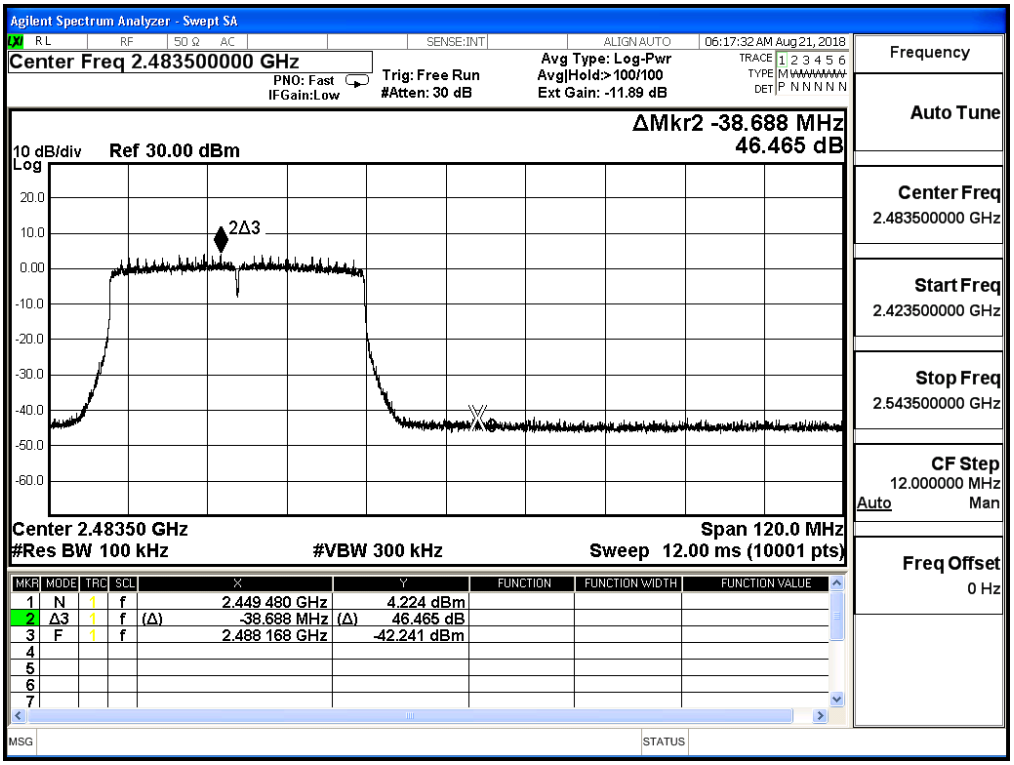
Channel 3 (2422MHz)



Channel 6 (2437MHz)

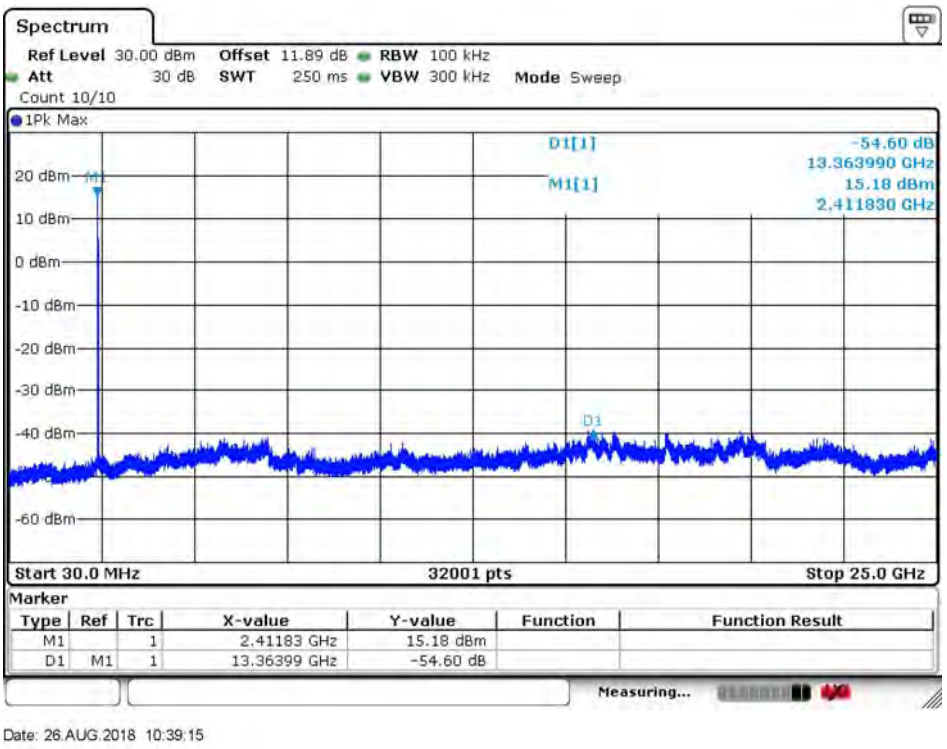


Channel 9 (2452MHz)

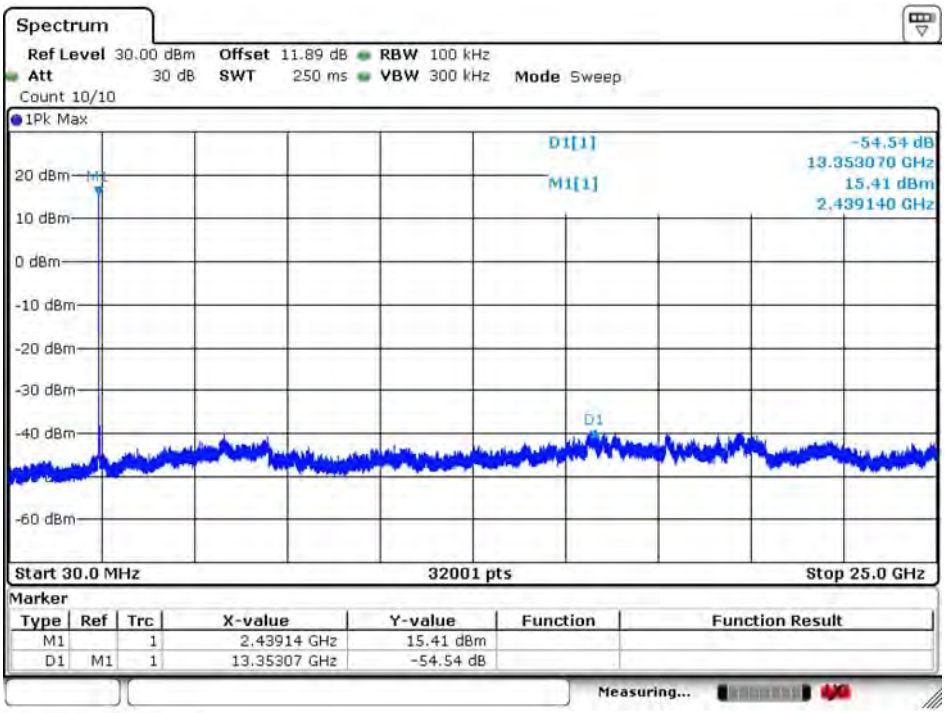


Product	ROG Rapture GT-AX6000 Dual-band Gaming Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-65DW Y		
Date of Test	2018/08/26	Test Site	SR10-H

2412MHz (30MHz-25GHz)-802.11b-ANT 0

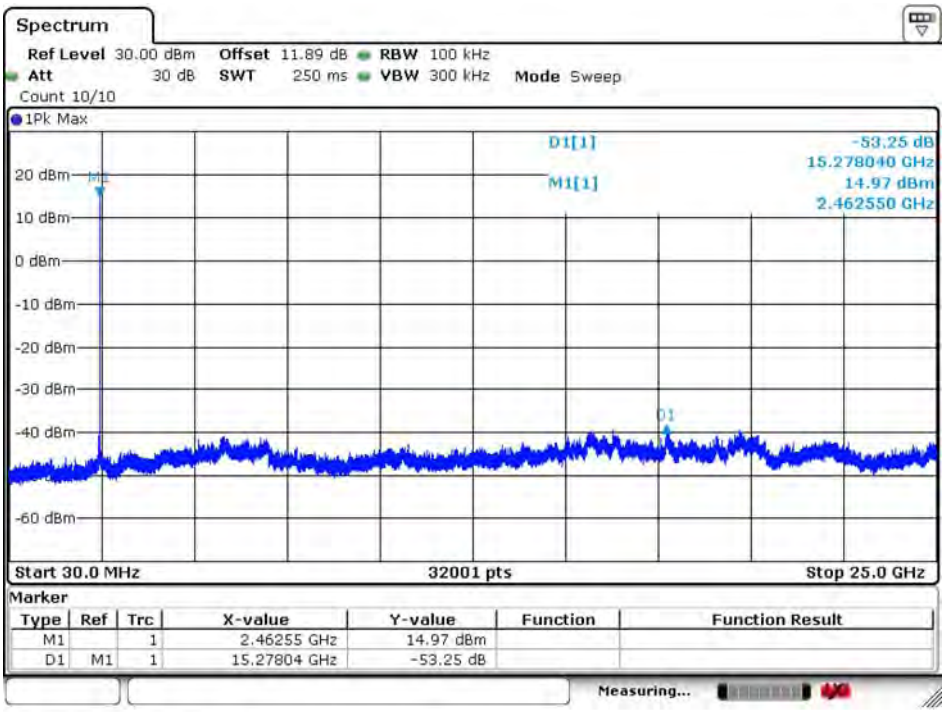


2437MHz (30MHz-25GHz)-802.11b-ANT 0



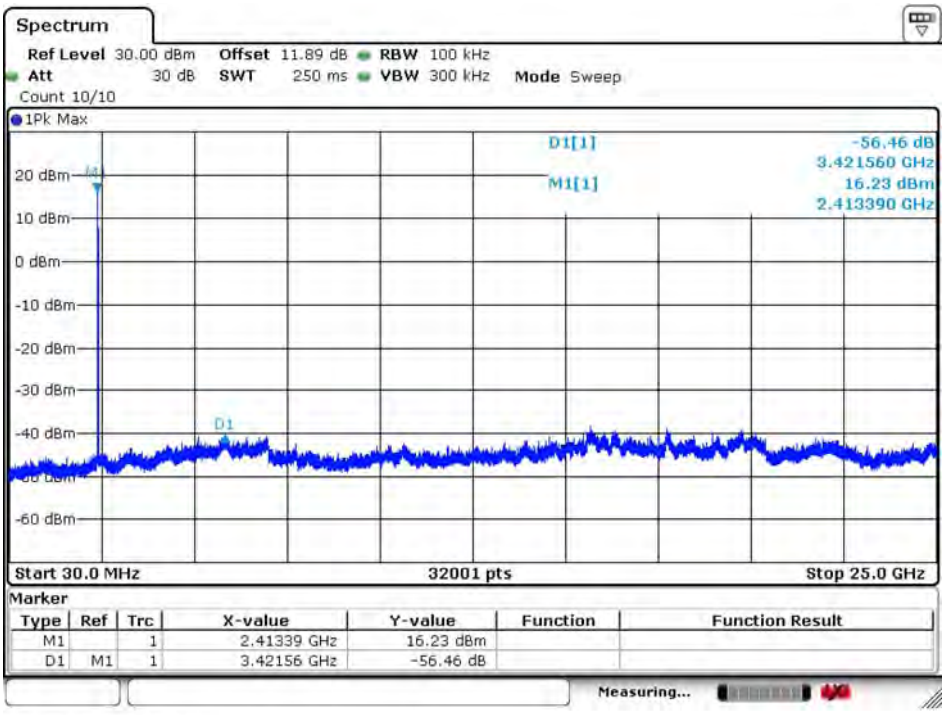
Date: 26.AUG.2018 10:45:29

2462MHz (30MHz-25GHz)-802.11b-ANT 0



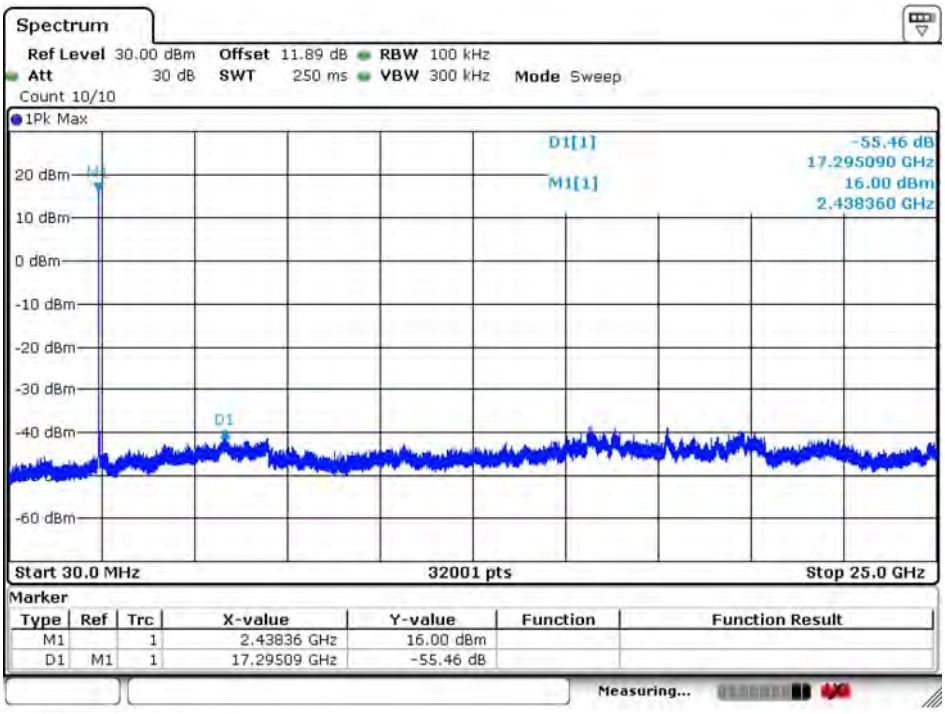
Date: 26.AUG.2018 10:47:16

2412MHz (30MHz-25GHz)-802.11b-ANT 1



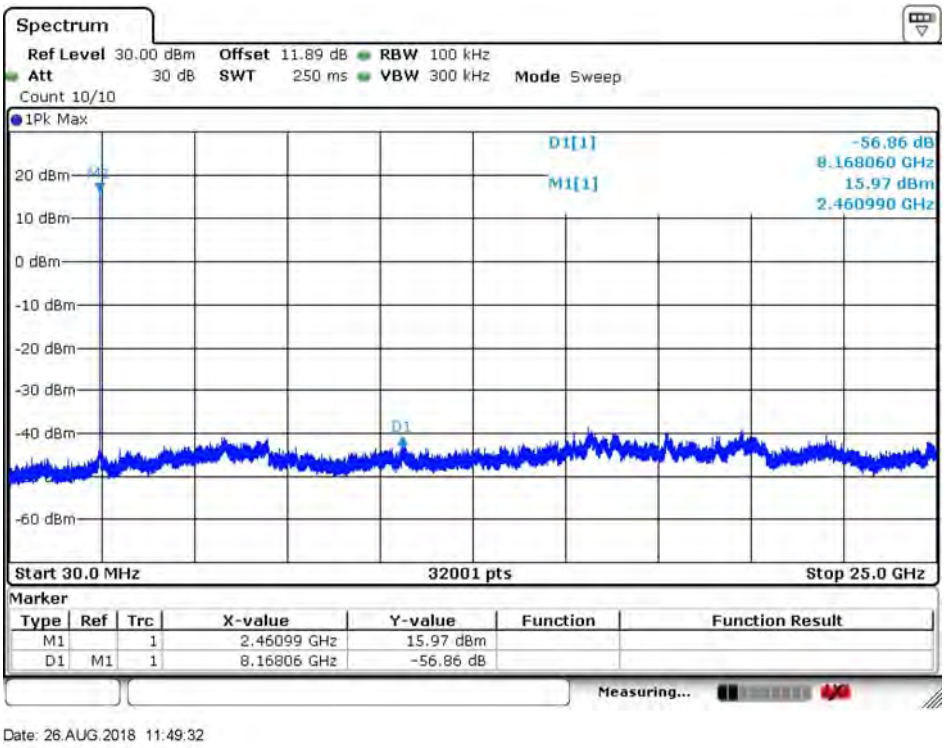
Date: 26.AUG.2018 11:45:05

2437MHz (30MHz-25GHz)-802.11b-ANT 1

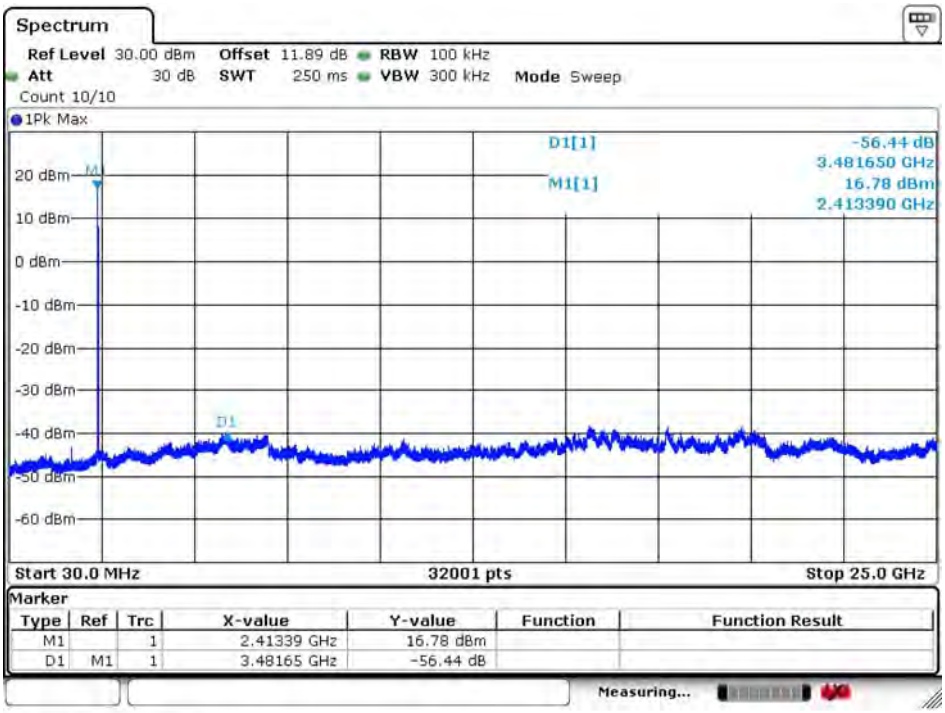


Date: 26.AUG.2018 11:47:11

2462MHz (30MHz-25GHz)-802.11b-ANT 1

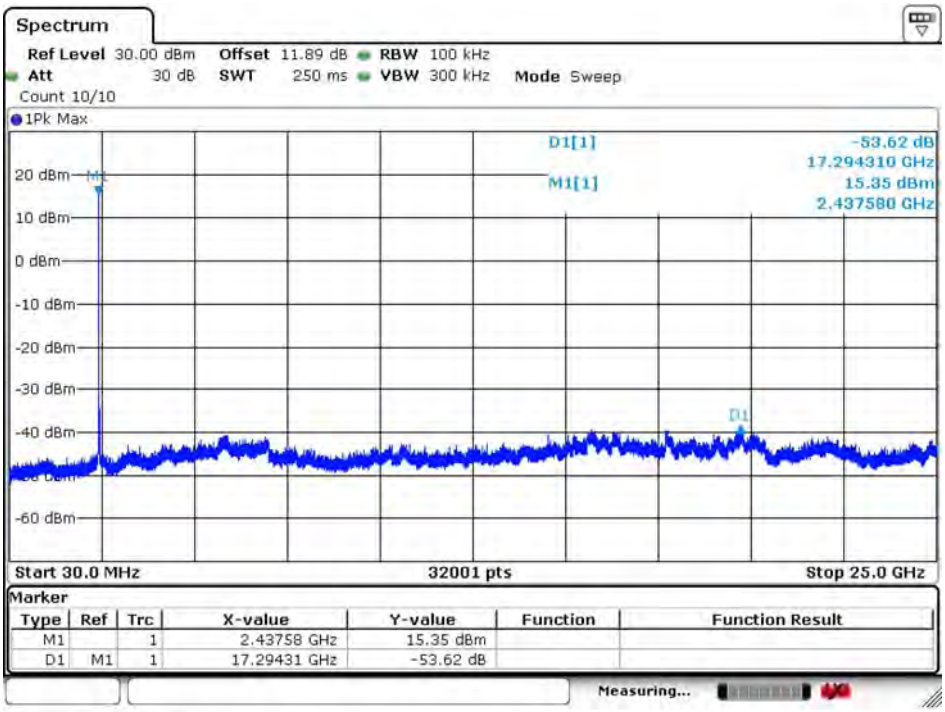


2412MHz (30MHz-25GHz)-802.11b-ANT 2



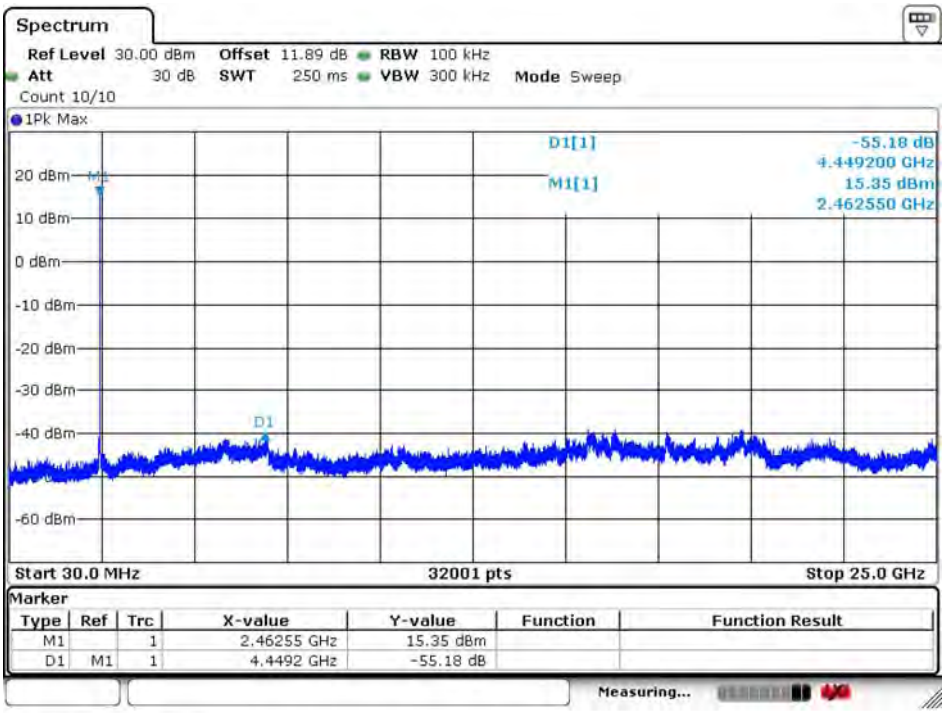
Date: 26.AUG.2018 12:57:28

2437MHz (30MHz-25GHz)-802.11b-ANT 2

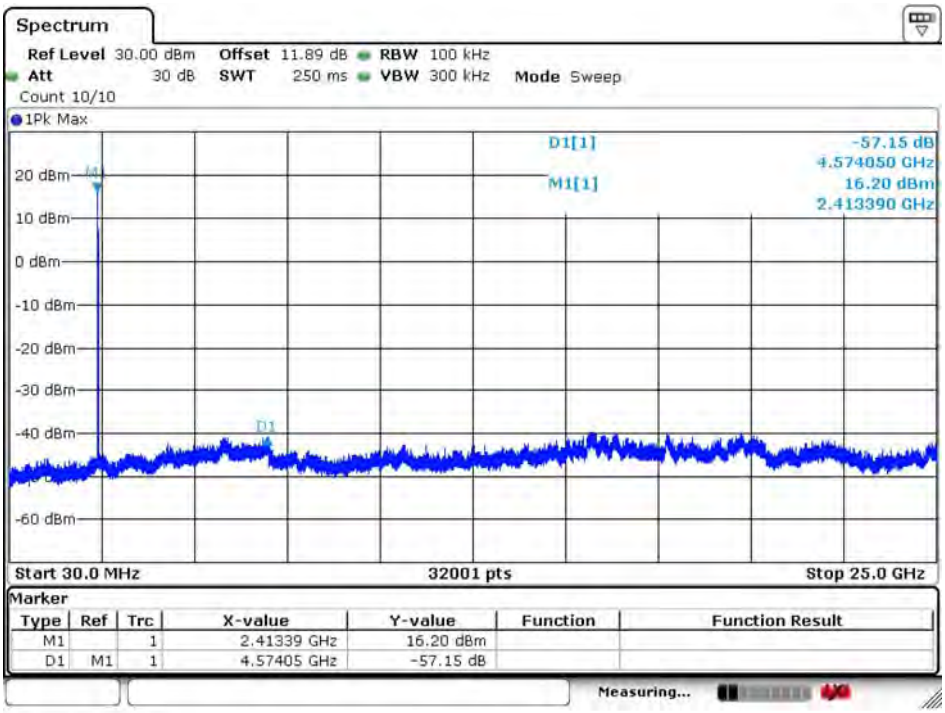


Date: 26.AUG.2018 13:00:37

2462MHz (30MHz-25GHz)-802.11b-ANT 2

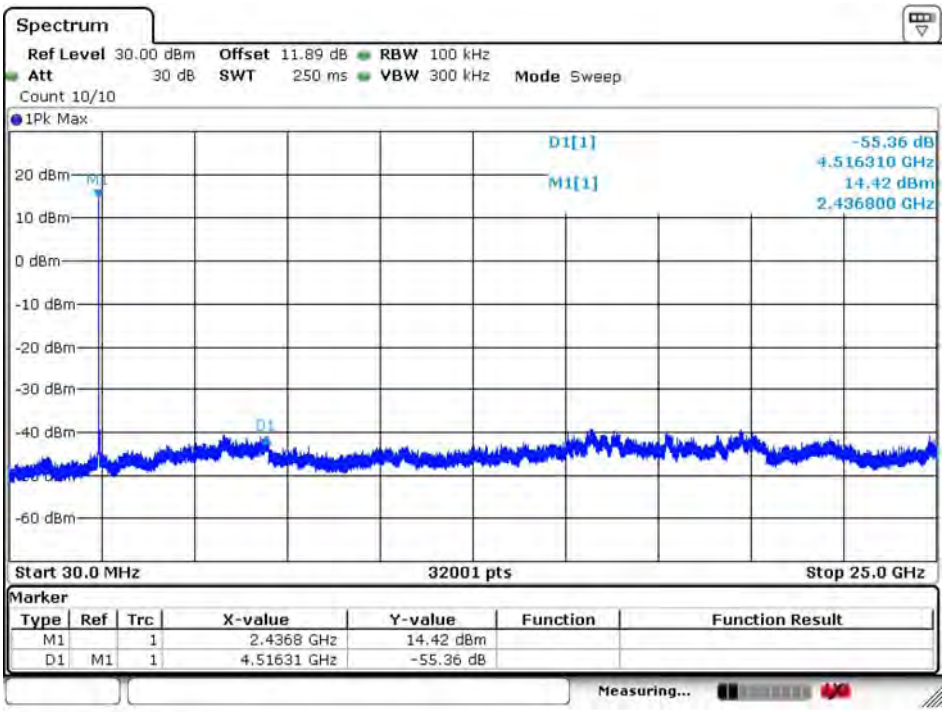


2412MHz (30MHz-25GHz)-802.11b-ANT 3



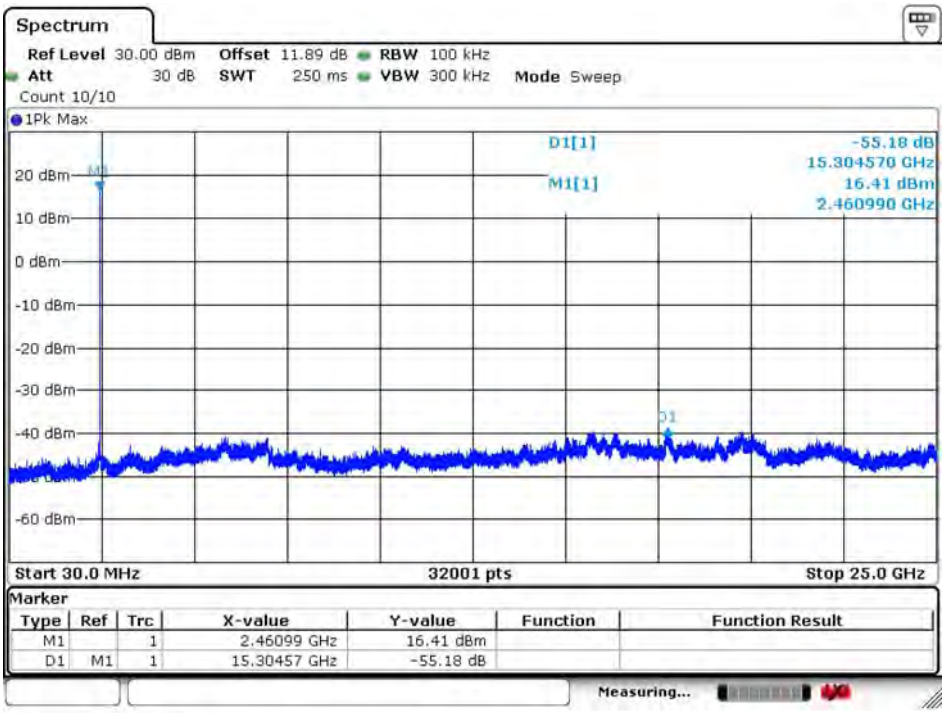
Date: 26.AUG.2018 13:43:07

2437MHz (30MHz-25GHz)-802.11b-ANT 3

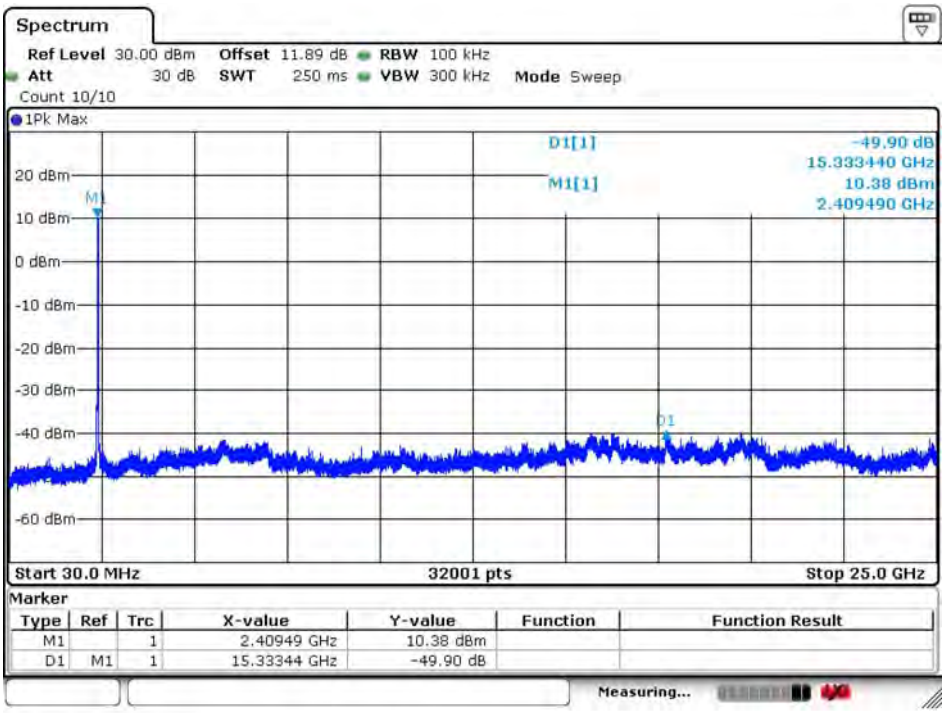


Date: 26.AUG.2018 13:45:55

2462MHz (30MHz-25GHz)-802.11b-ANT 3

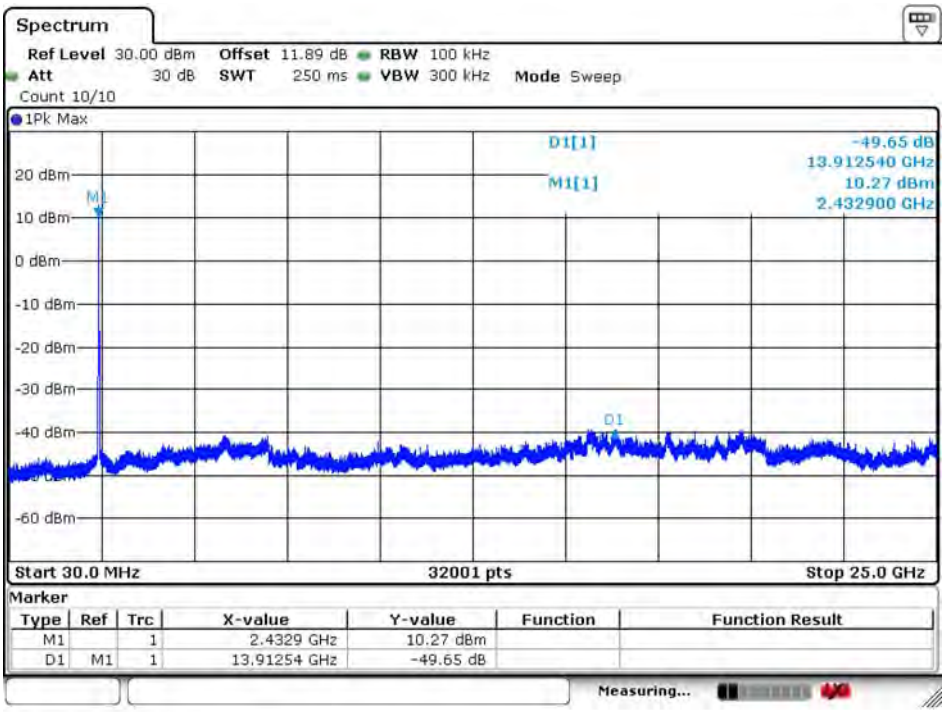


2412MHz (30MHz-25GHz)-802.11g-ANT 0



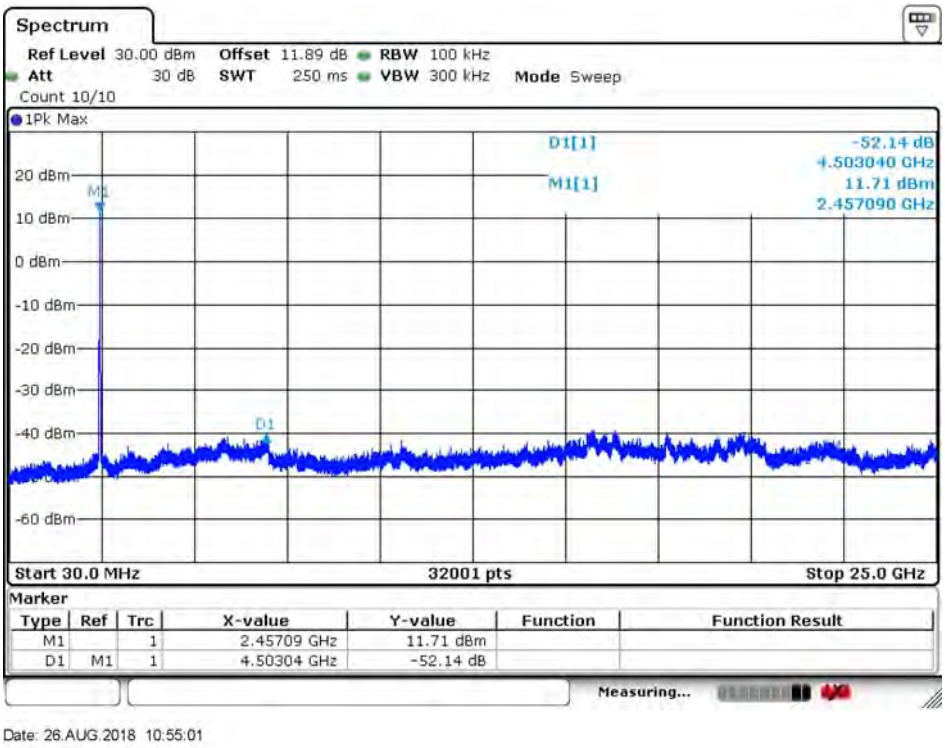
Date: 26.AUG.2018 10:50:55

2437MHz (30MHz-25GHz)-802.11g-ANT 0

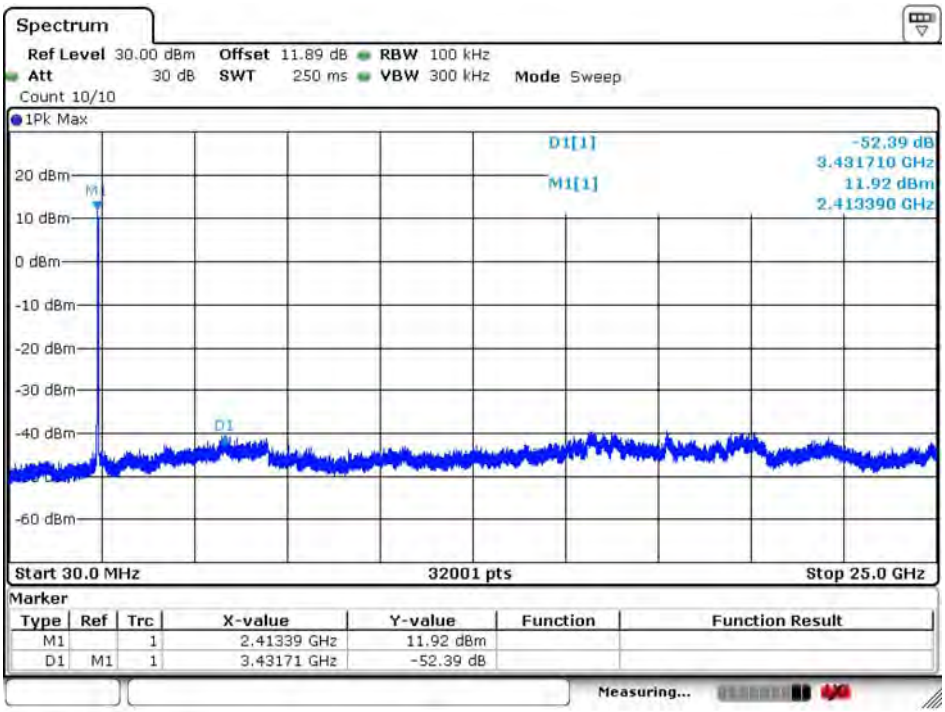


Date: 26.AUG.2018 10:53:13

2462MHz (30MHz-25GHz)-802.11g-ANT 0

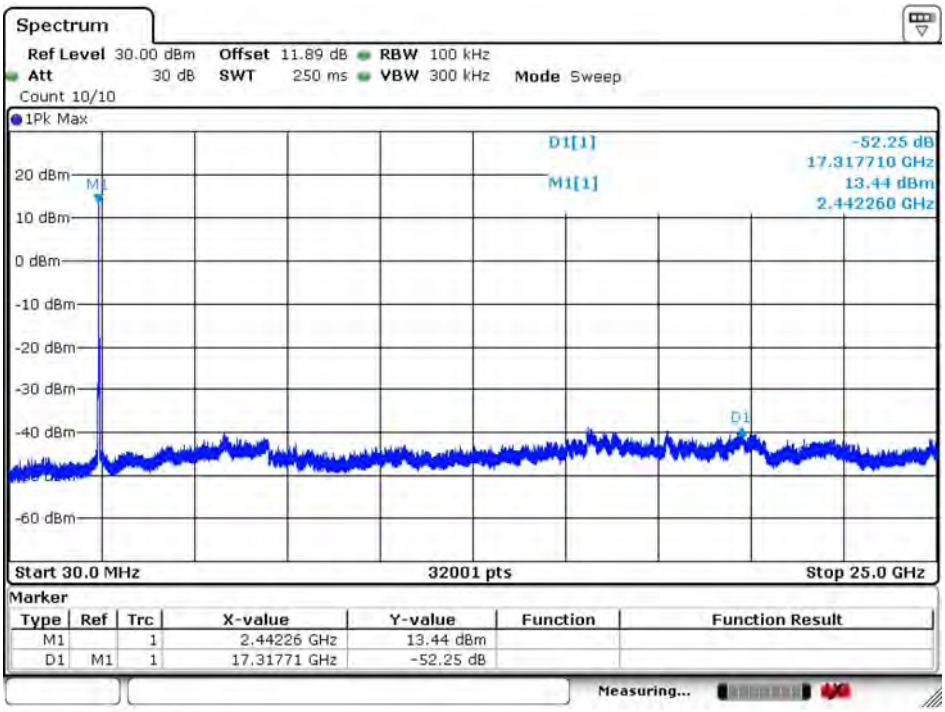


2412MHz (30MHz-25GHz)-802.11g-ANT 1



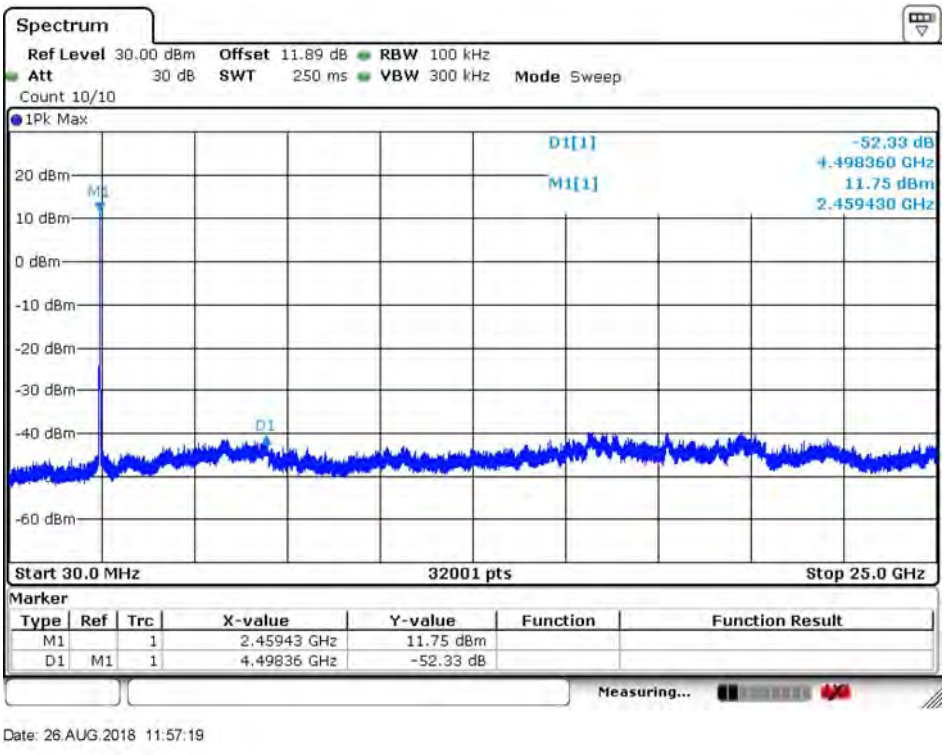
Date: 26.AUG.2018 11:53:04

2437MHz (30MHz-25GHz)-802.11g-ANT 1

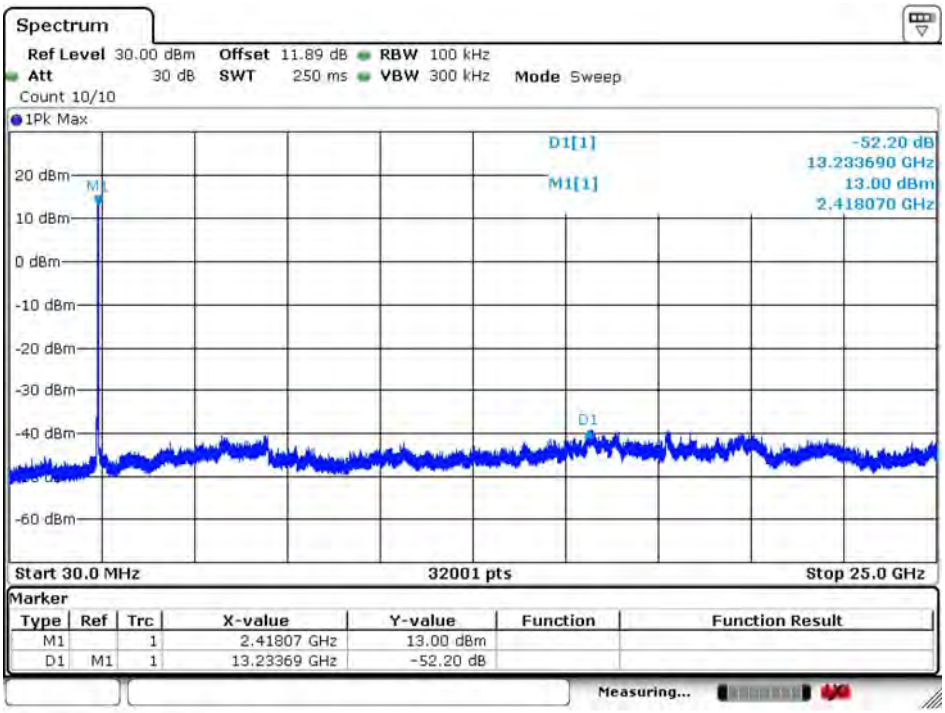


Date: 26.AUG.2018 11:55:32

2462MHz (30MHz-25GHz)-802.11g-ANT 1

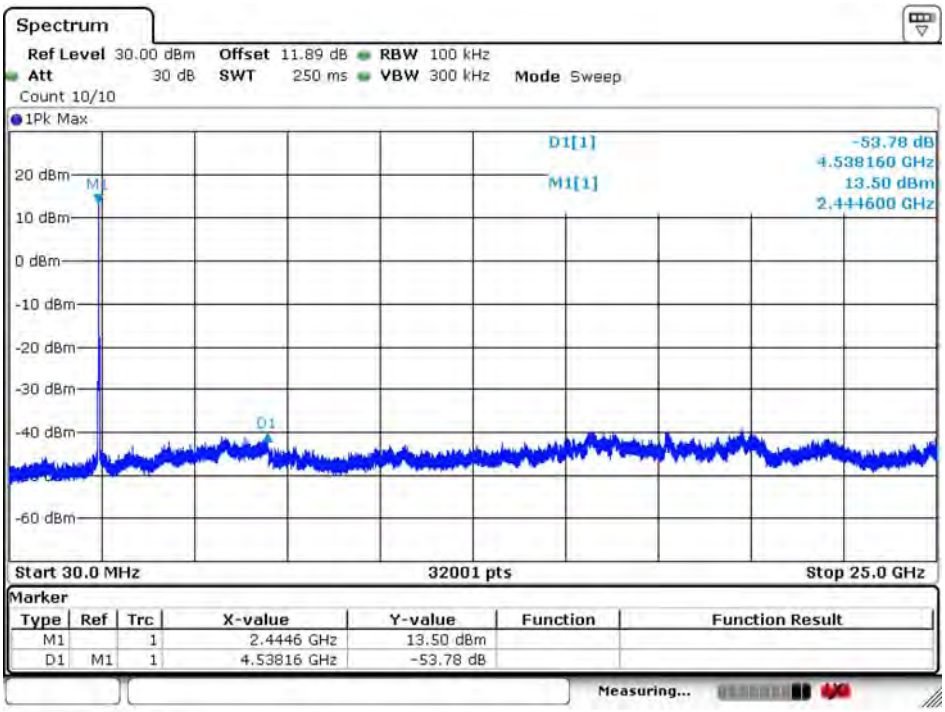


2412MHz (30MHz-25GHz)-802.11g-ANT 2



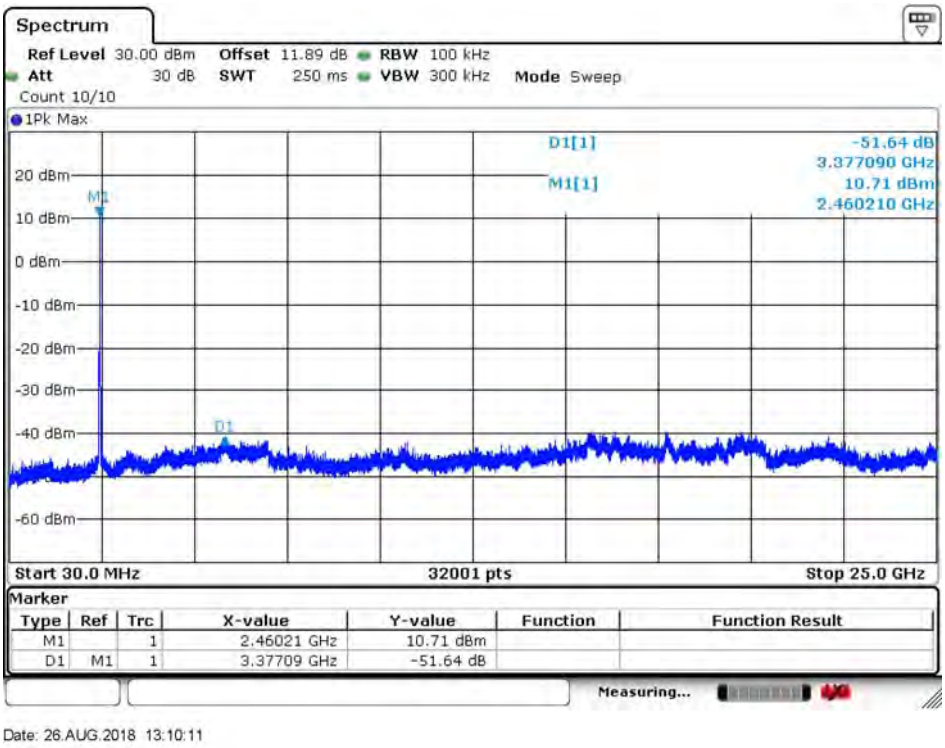
Date: 26.AUG.2018 13:06:11

2437MHz (30MHz-25GHz)-802.11g-ANT 2

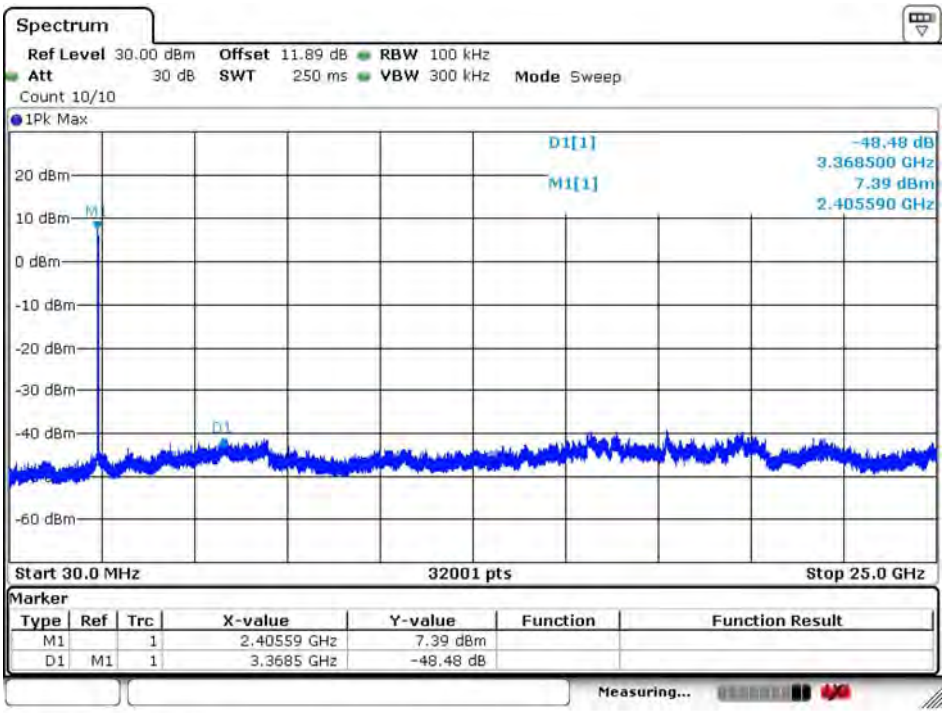


Date: 26.AUG.2018 13:08:45

2462MHz (30MHz-25GHz)-802.11g-ANT 2

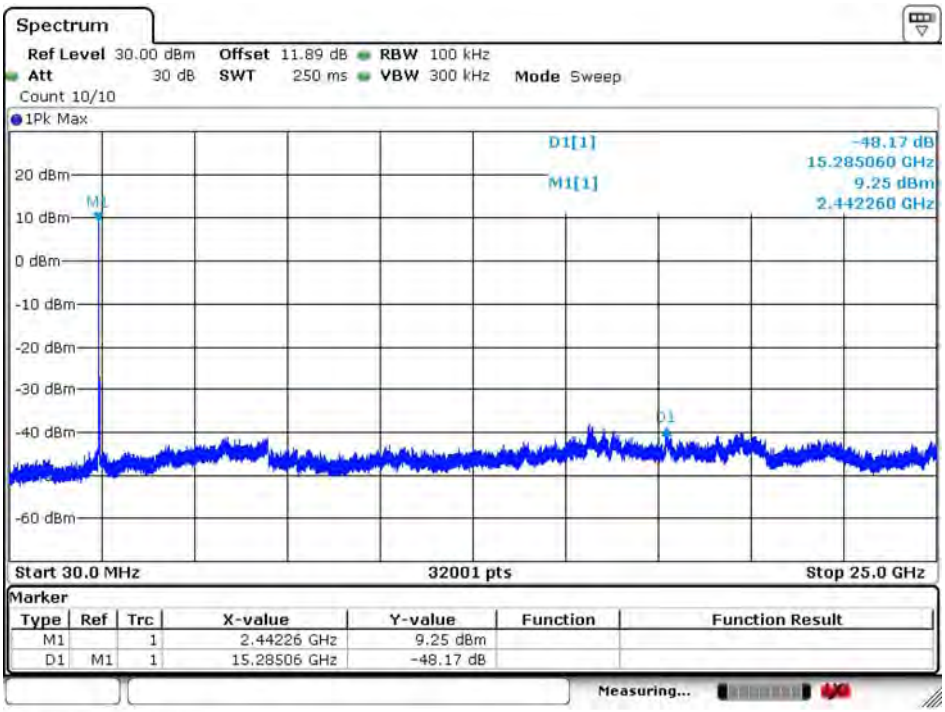


2412MHz (30MHz-25GHz)-802.11g-ANT 3



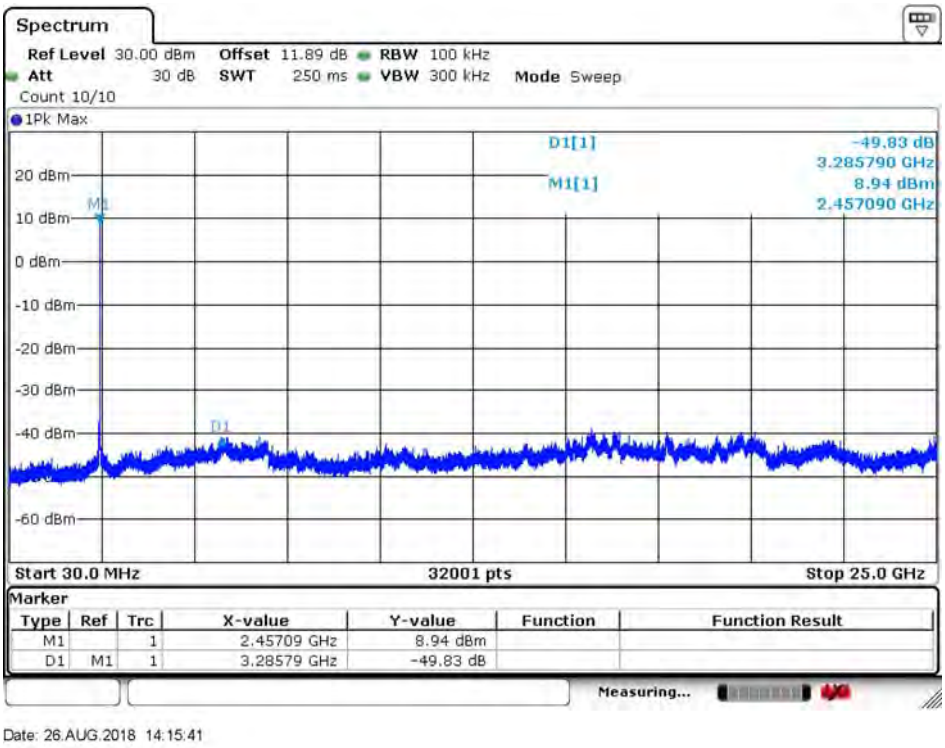
Date: 26.AUG.2018 14:12:48

2437MHz (30MHz-25GHz)-802.11g-ANT 3

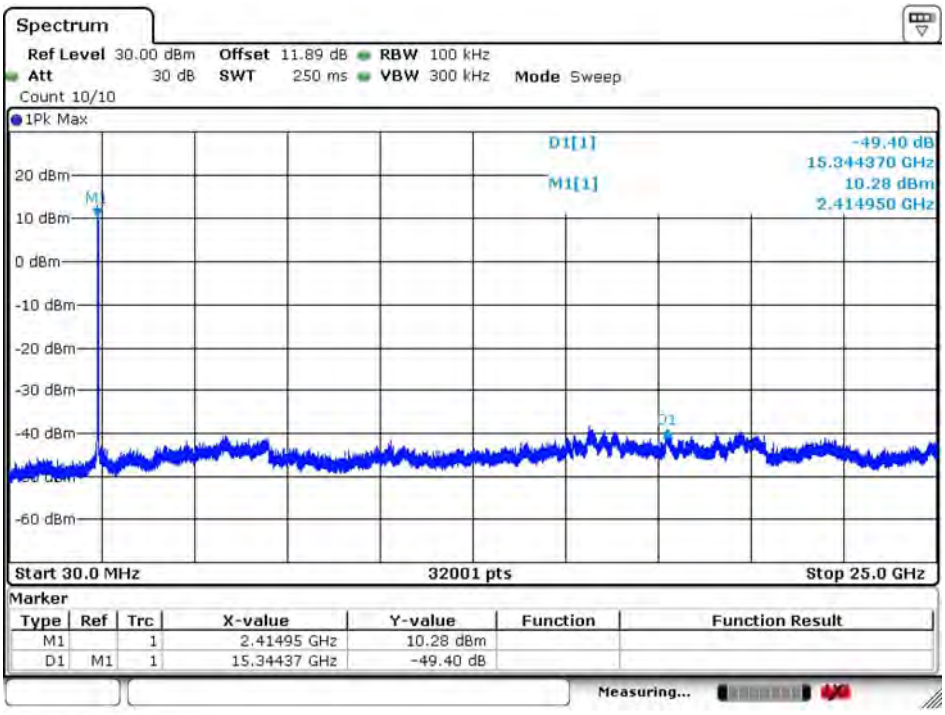


Date: 26.AUG.2018 14:14:08

2462MHz (30MHz-25GHz)-802.11g-ANT 3

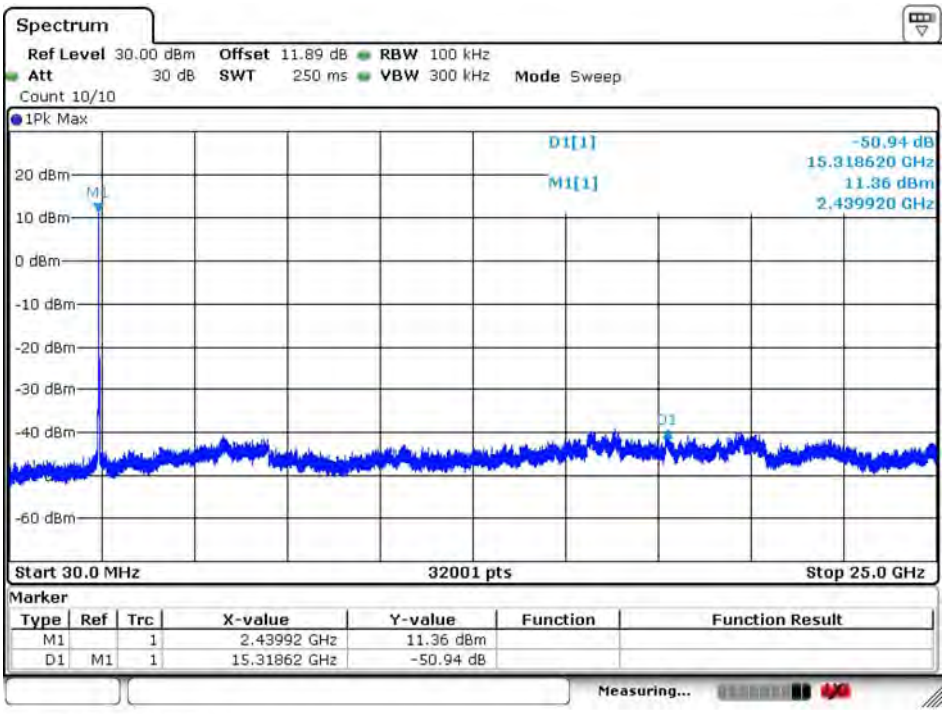


2412MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 0



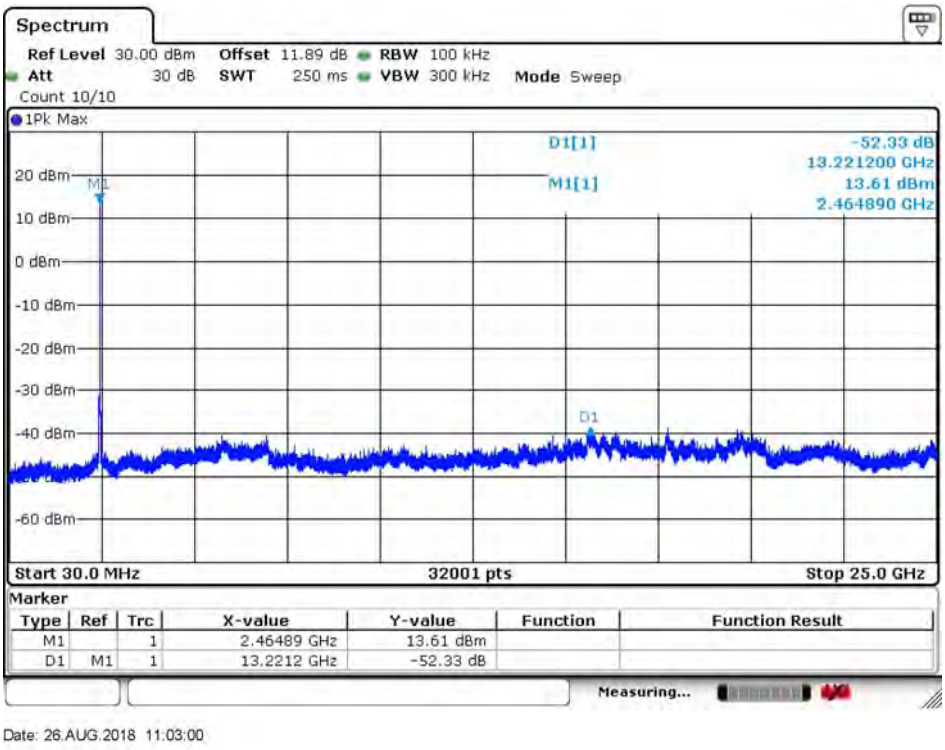
Date: 26.AUG.2018 10:59:16

2437MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 0

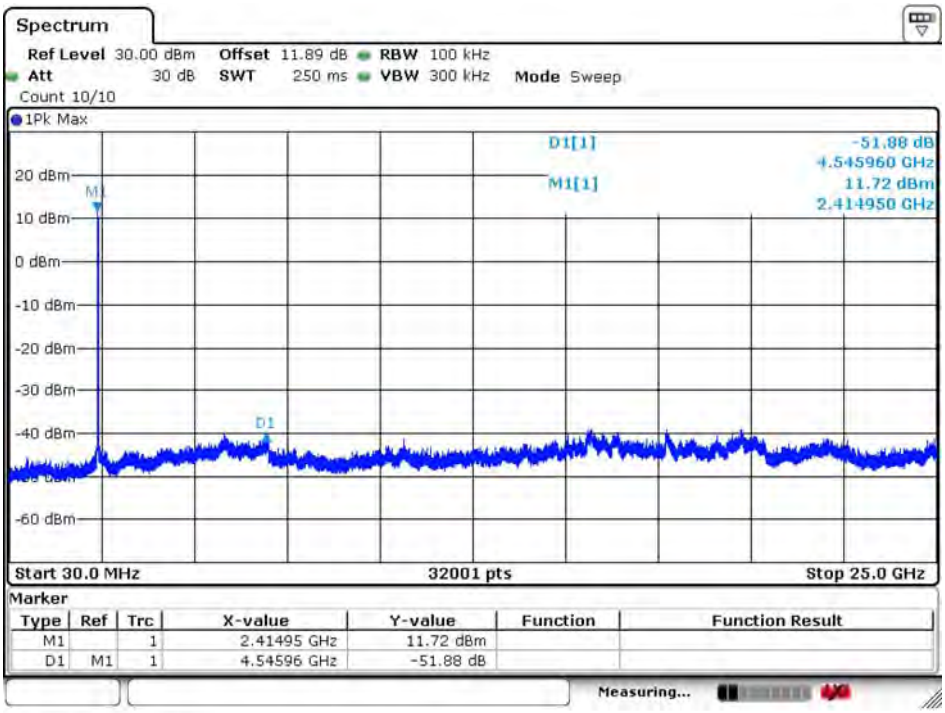


Date: 26.AUG.2018 11:00:56

2462MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 0

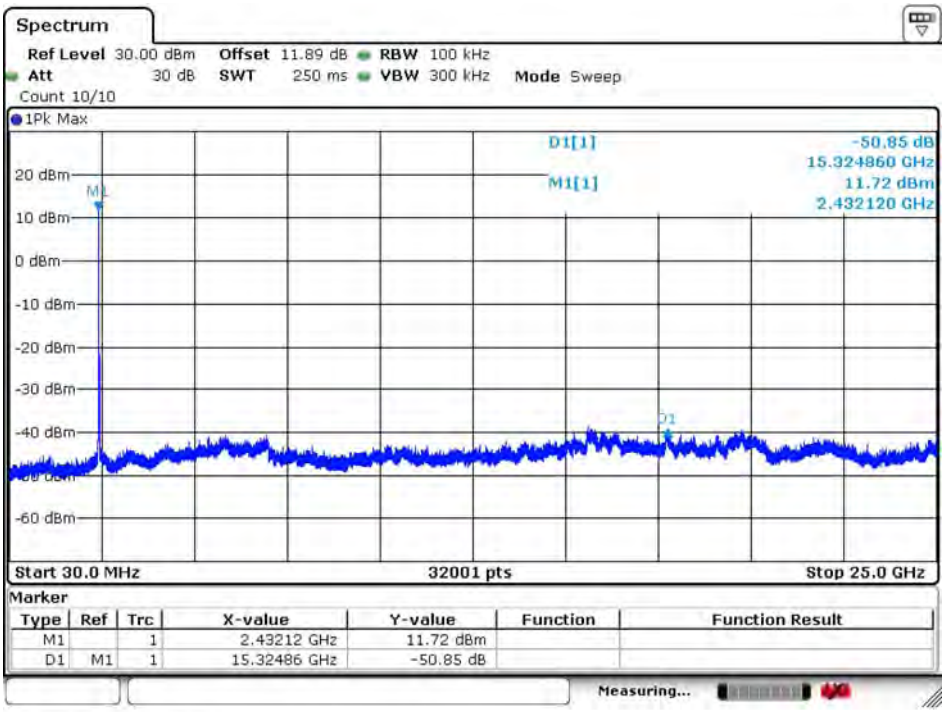


2412MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 1



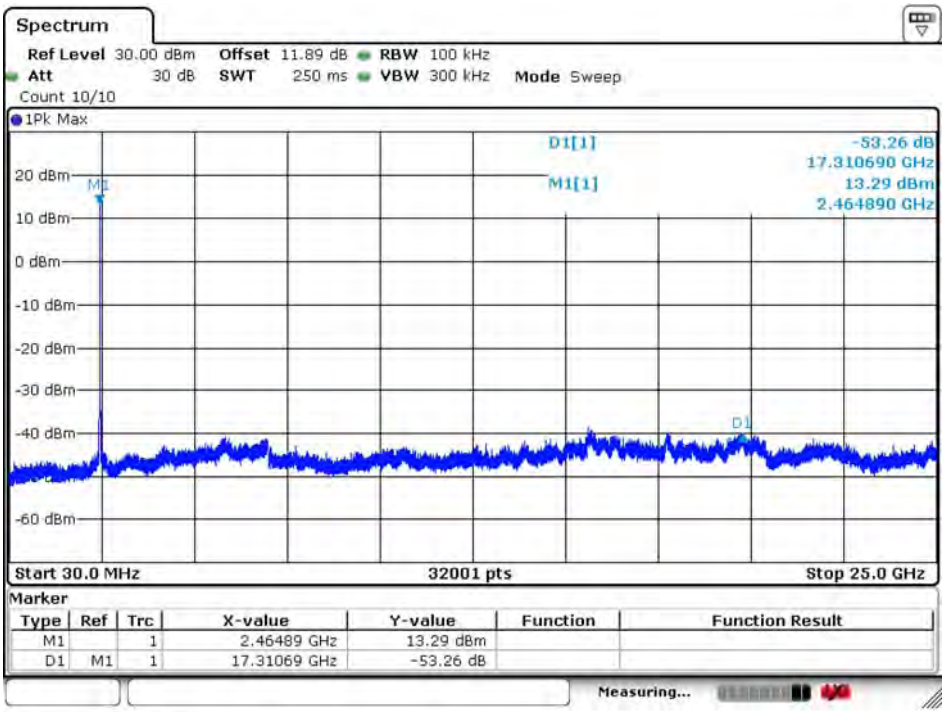
Date: 26.AUG.2018 12:04:33

2437MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 1

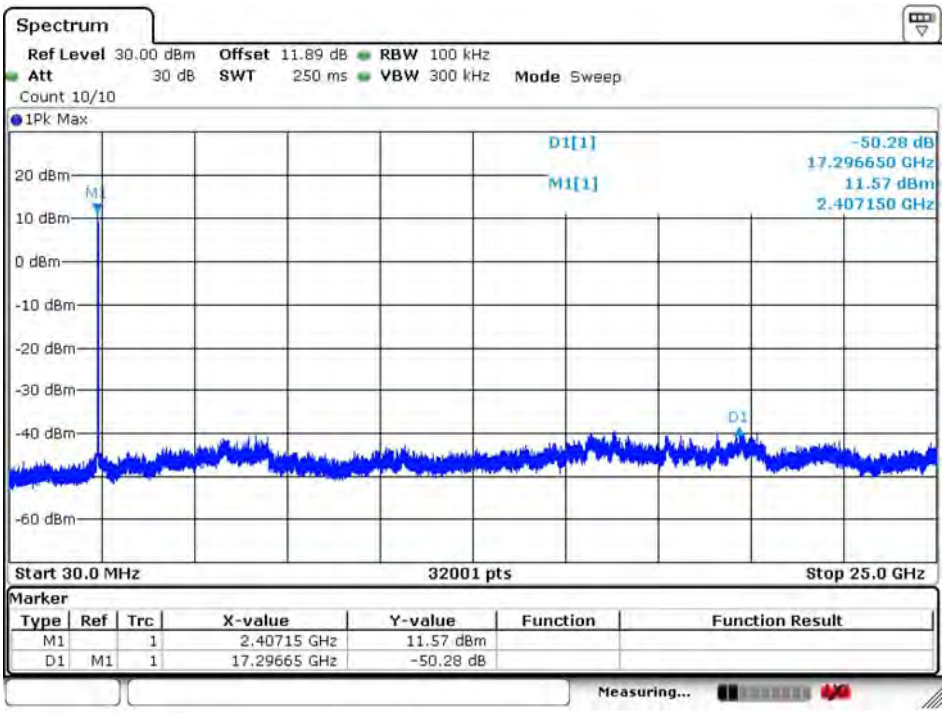


Date: 26.AUG.2018 12:08:19

2462MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 1

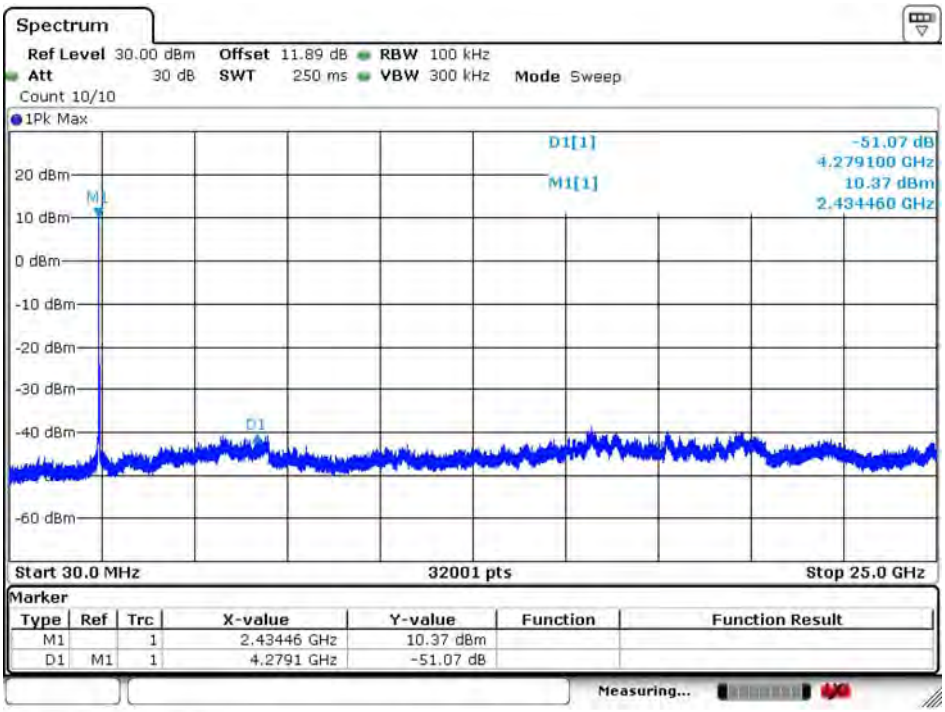


2412MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 2



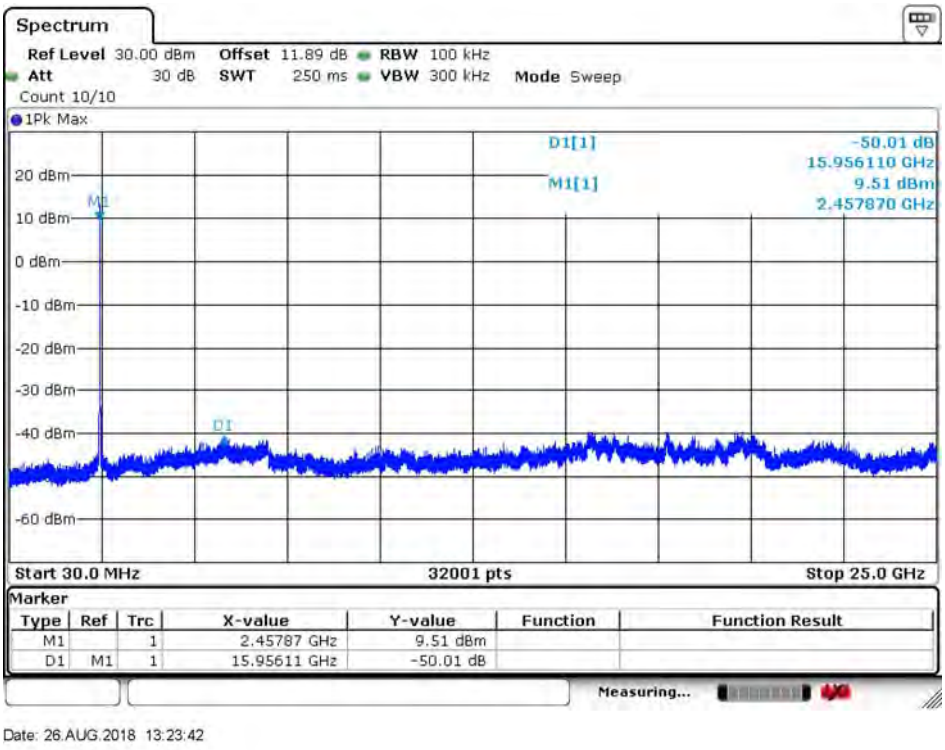
Date: 26.AUG.2018 13:11:37

2437MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 2

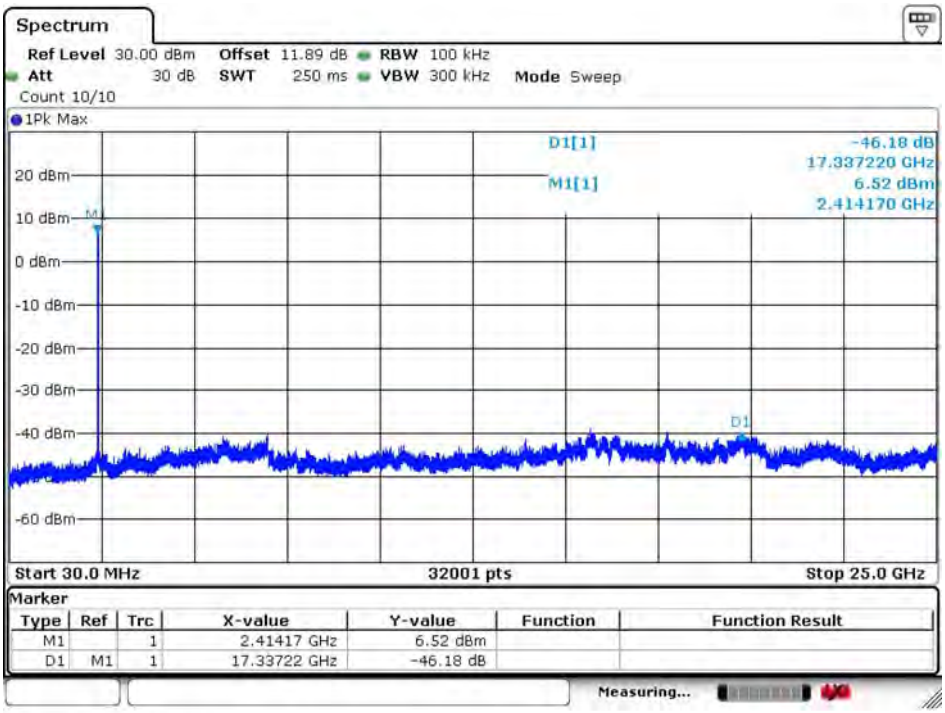


Date: 26.AUG.2018 13:13:44

2462MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 2

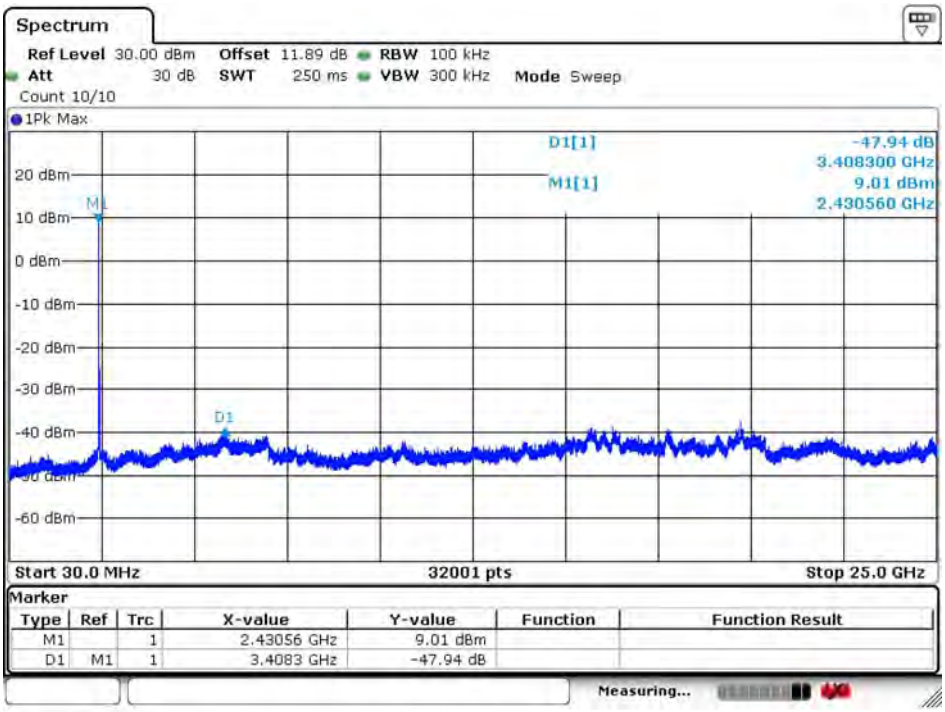


2412MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 3



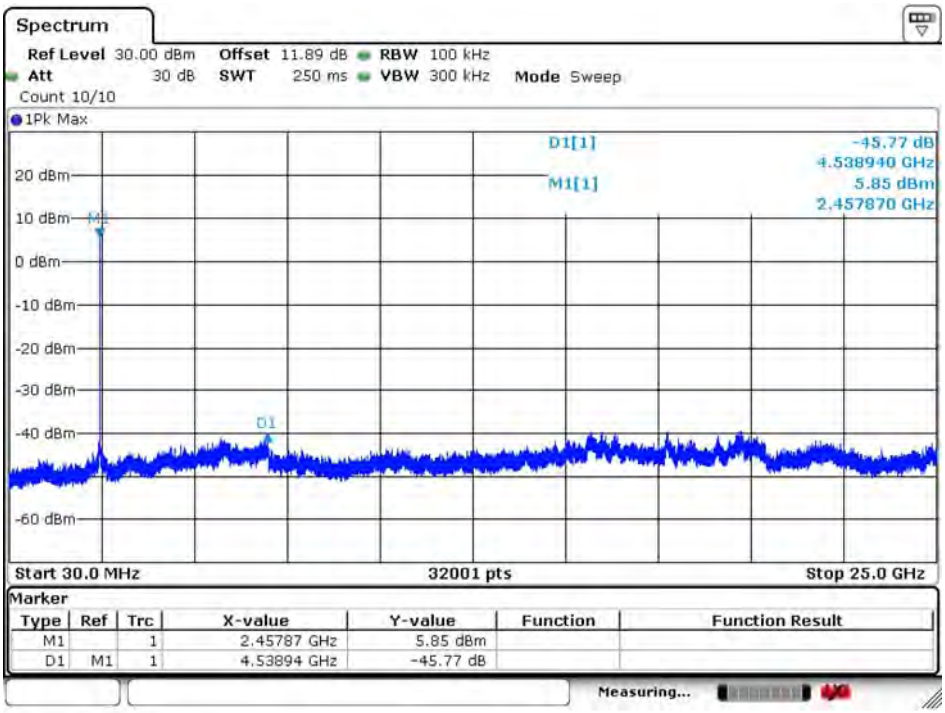
Date: 26.AUG.2018 14:17:33

2437MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 3

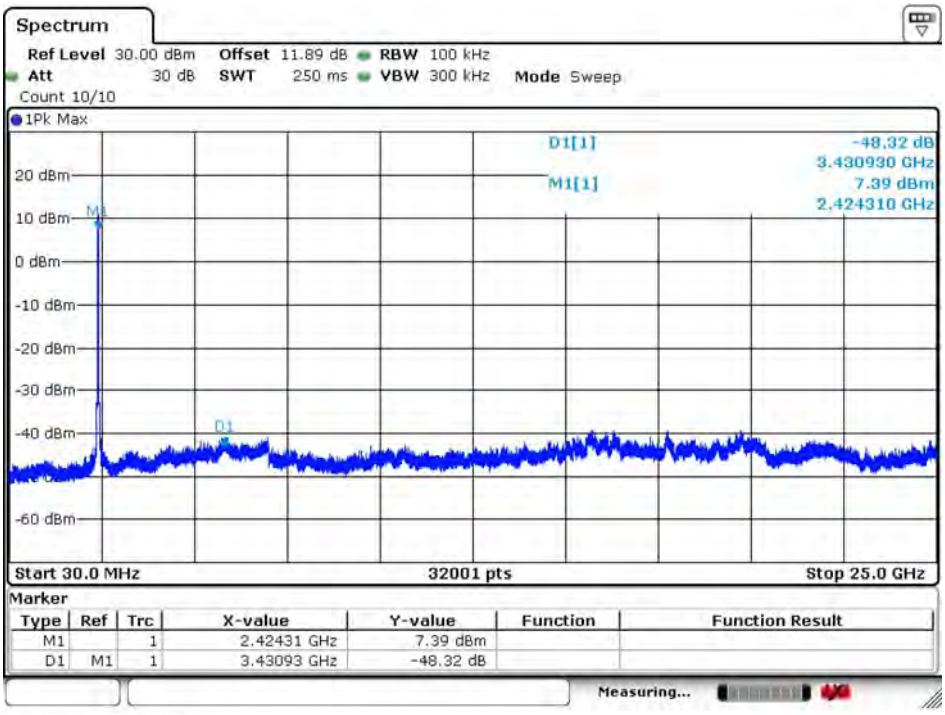


Date: 26.AUG.2018 14:23:28

2462MHz (30MHz-25GHz)-802.11ac VHT(20MHz)-ANT 3

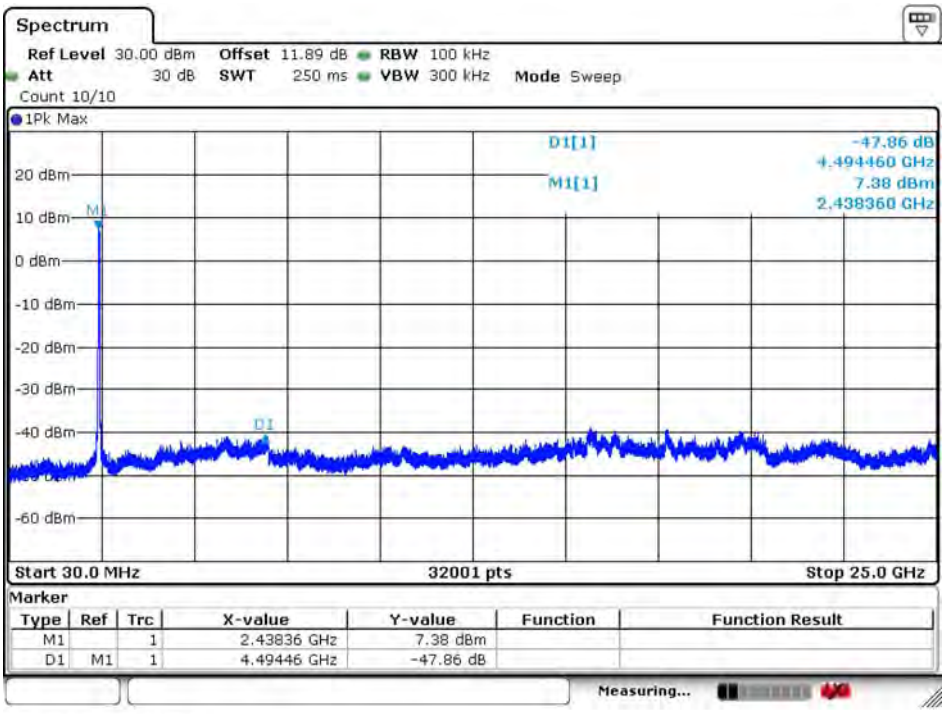


2422MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 0



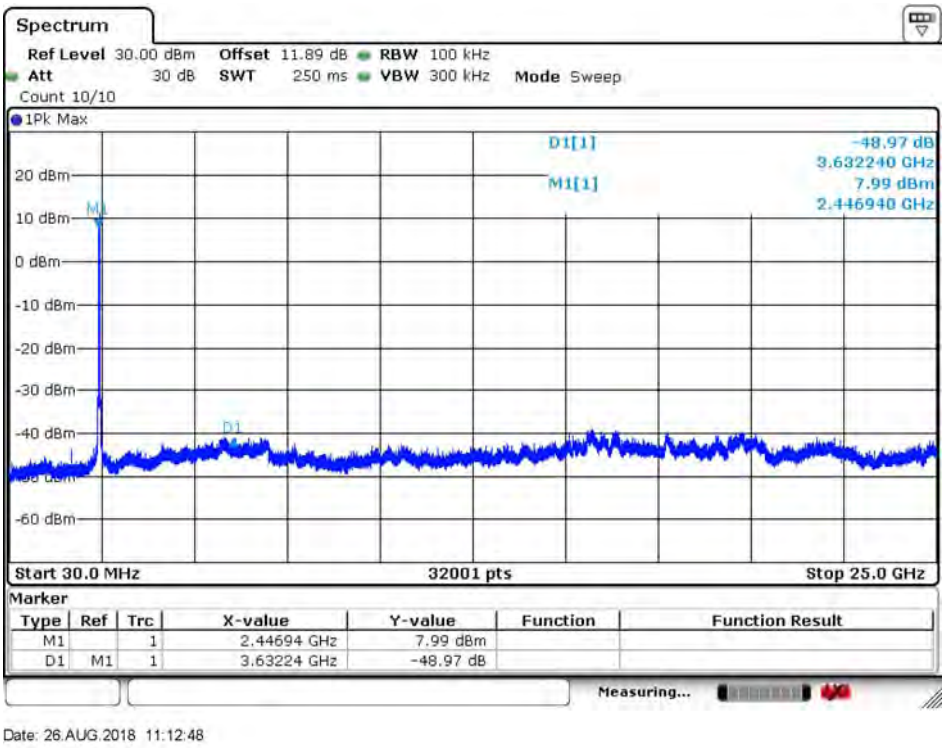
Date: 26.AUG.2018 11:06:55

2437MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 0

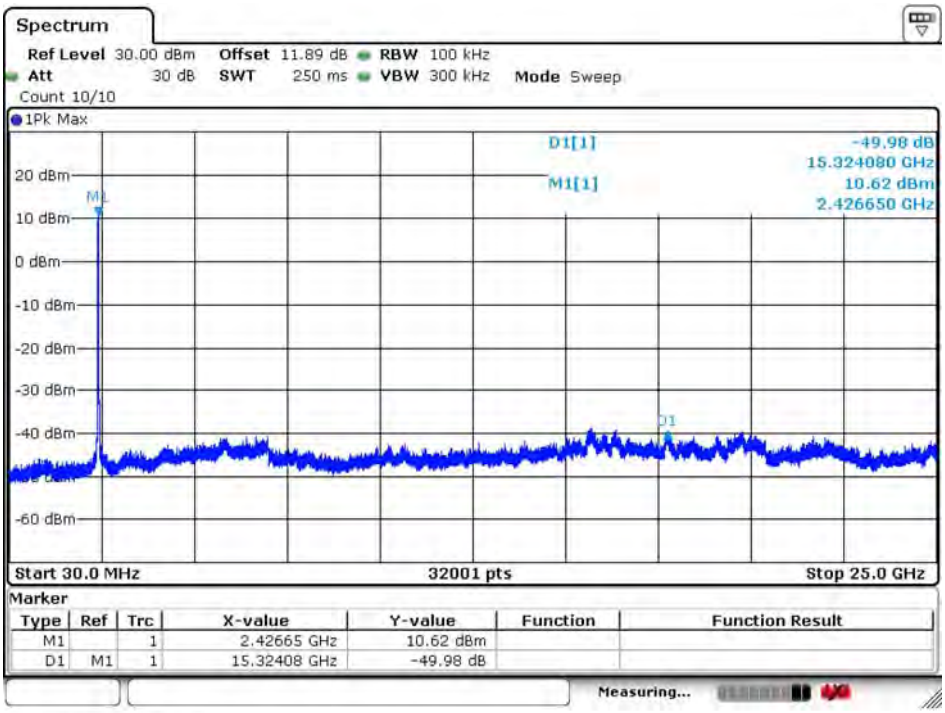


Date: 26.AUG.2018 11:09:23

2452MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 0

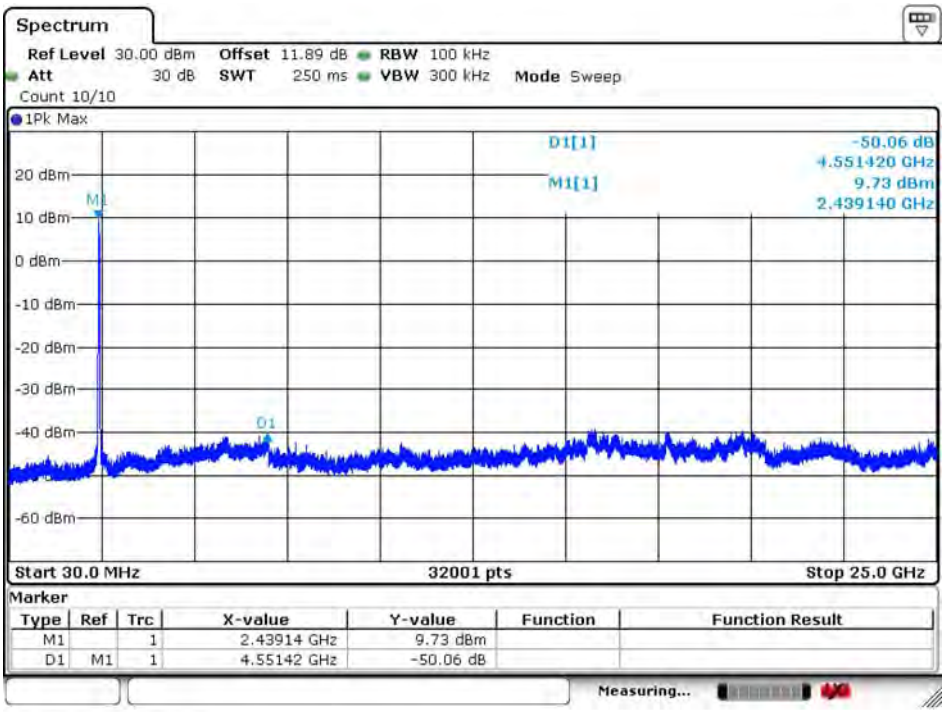


2422MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 1



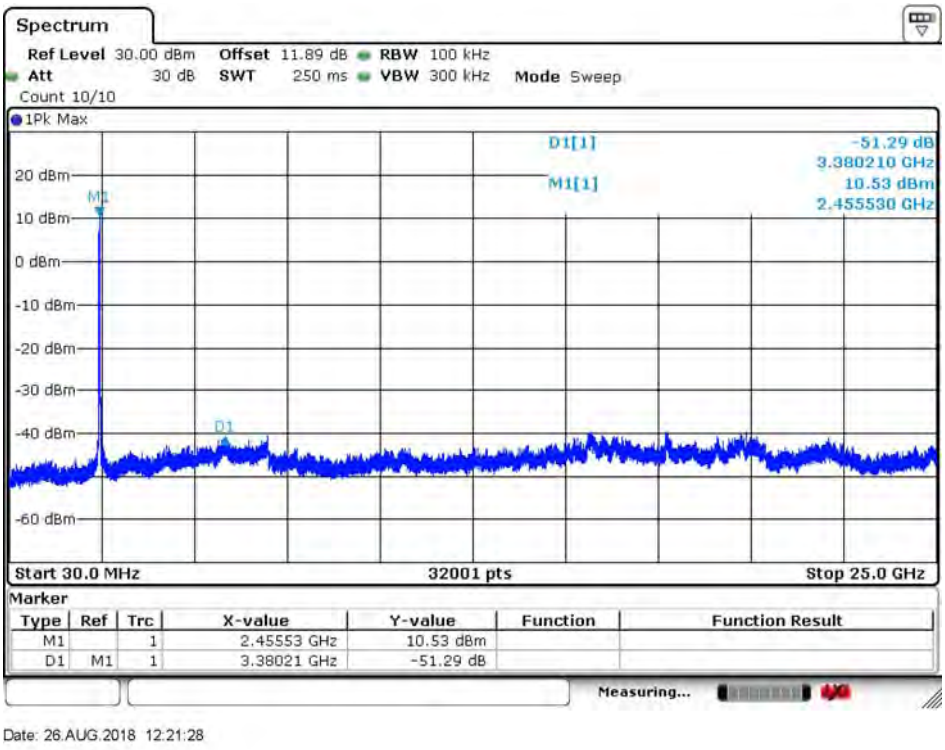
Date: 26.AUG.2018 12:16:26

2437MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 1

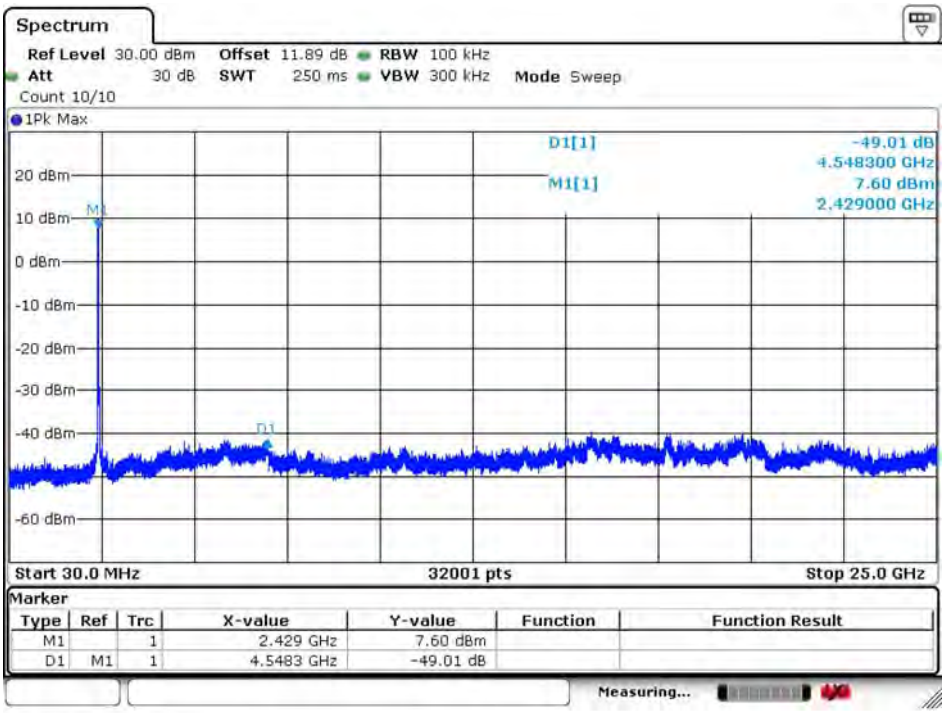


Date: 26.AUG.2018 12:18:41

2452MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 1

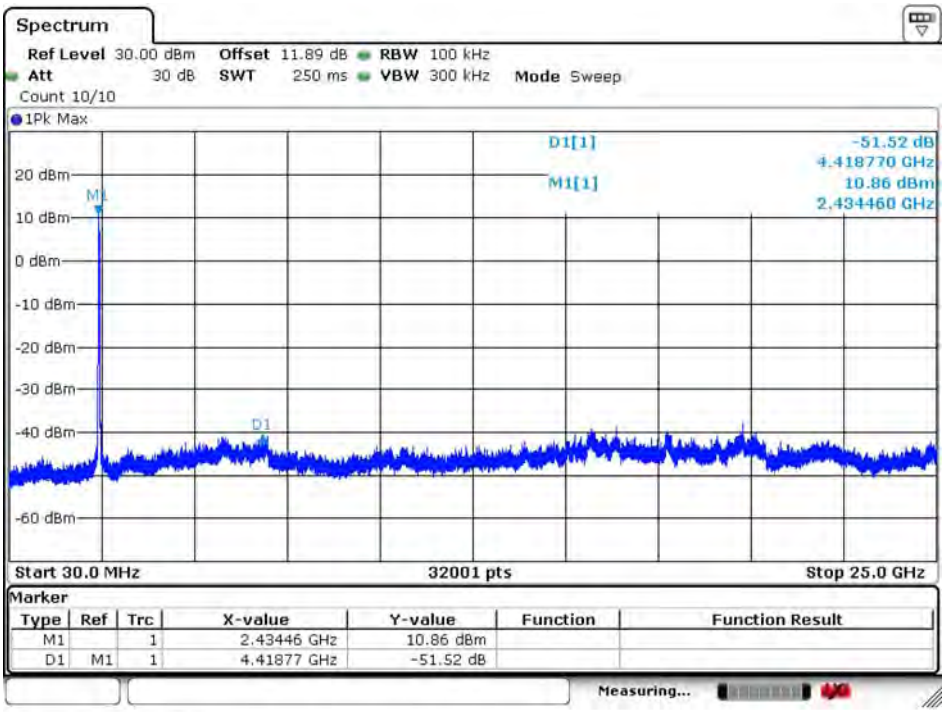


2422MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 2



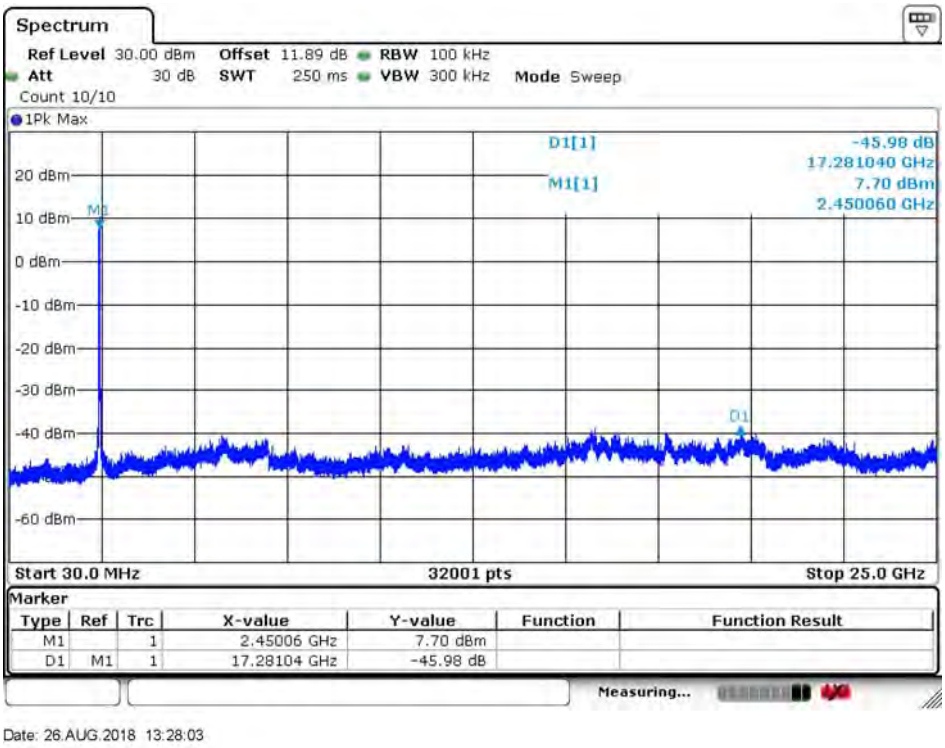
Date: 26.AUG.2018 13:25:17

2437MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 2

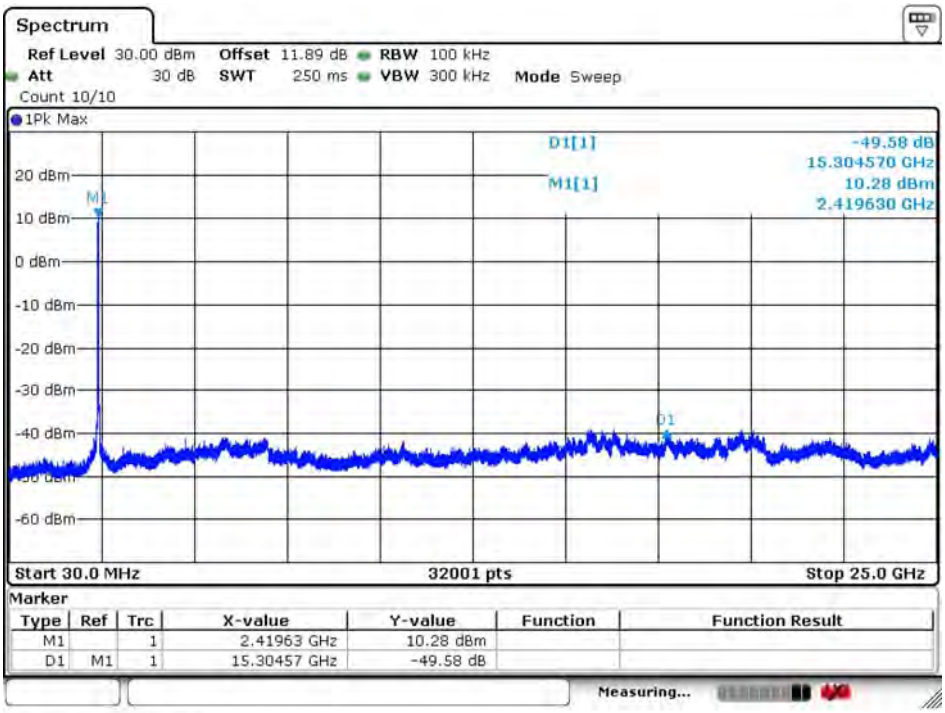


Date: 26.AUG.2018 13:26:24

2452MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 2

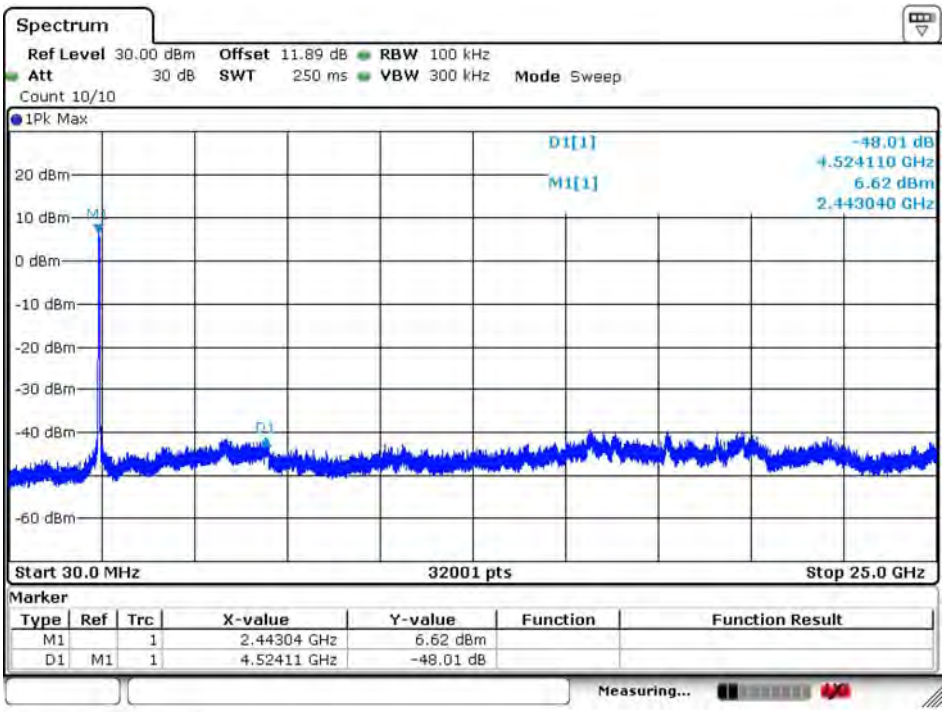


2422MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 3



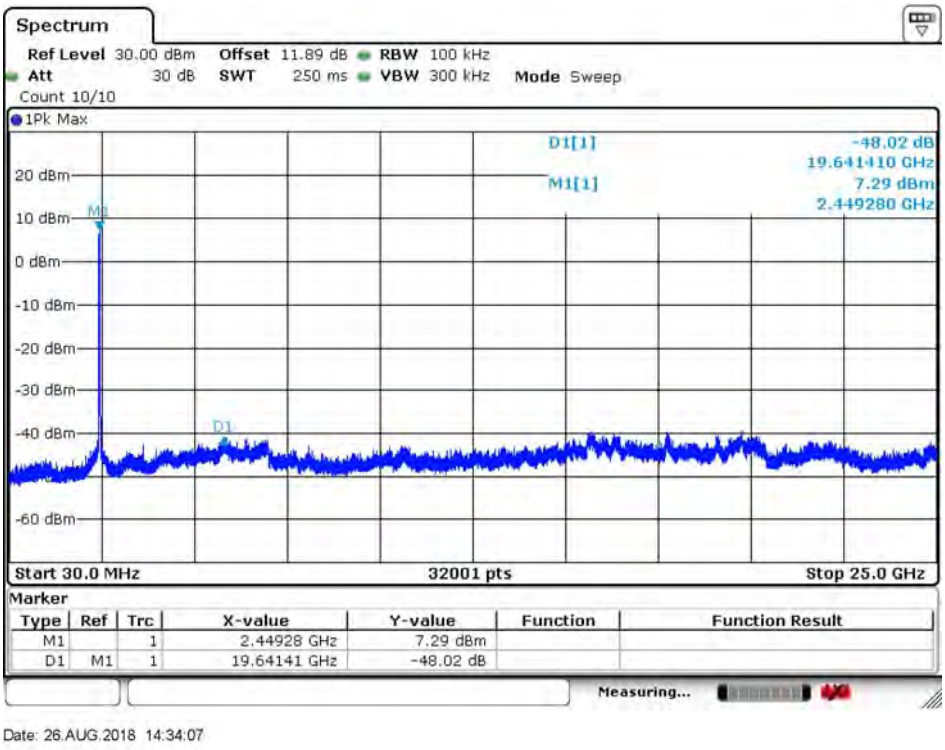
Date: 26.AUG.2018 14:31:42

2437MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 3

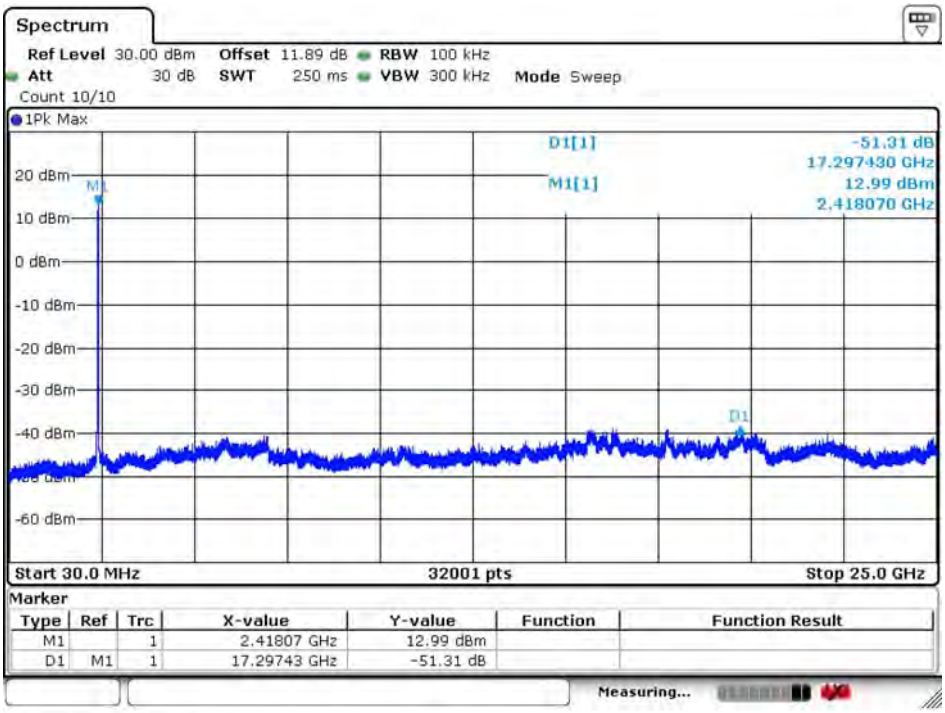


Date: 26.AUG.2018 14:32:42

2452MHz (30MHz-25GHz)-802.11ac VHT(40MHz)-ANT 3

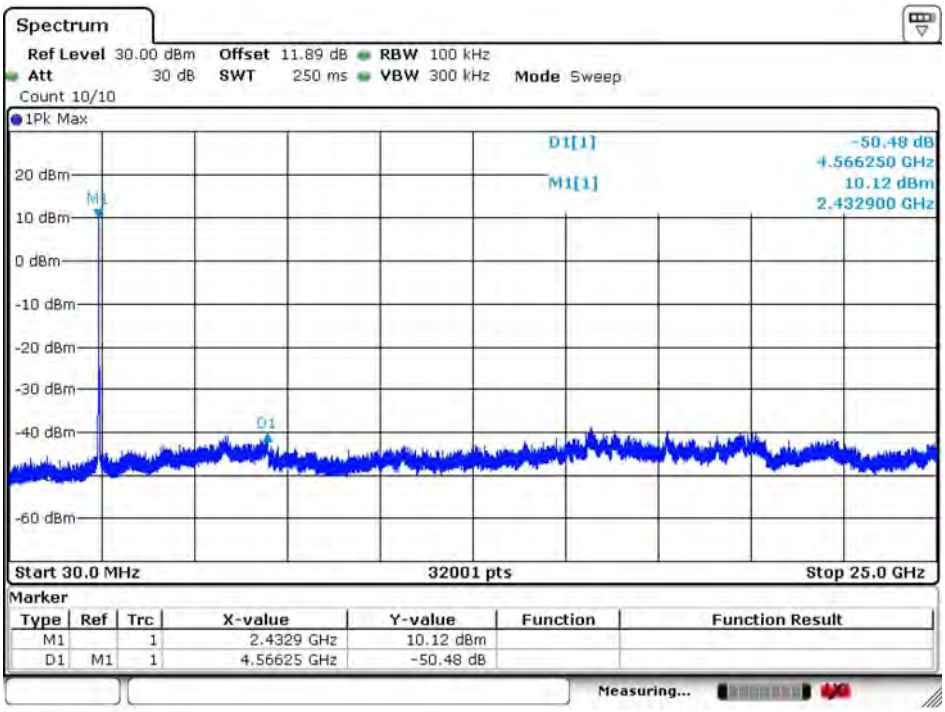


2412MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 0



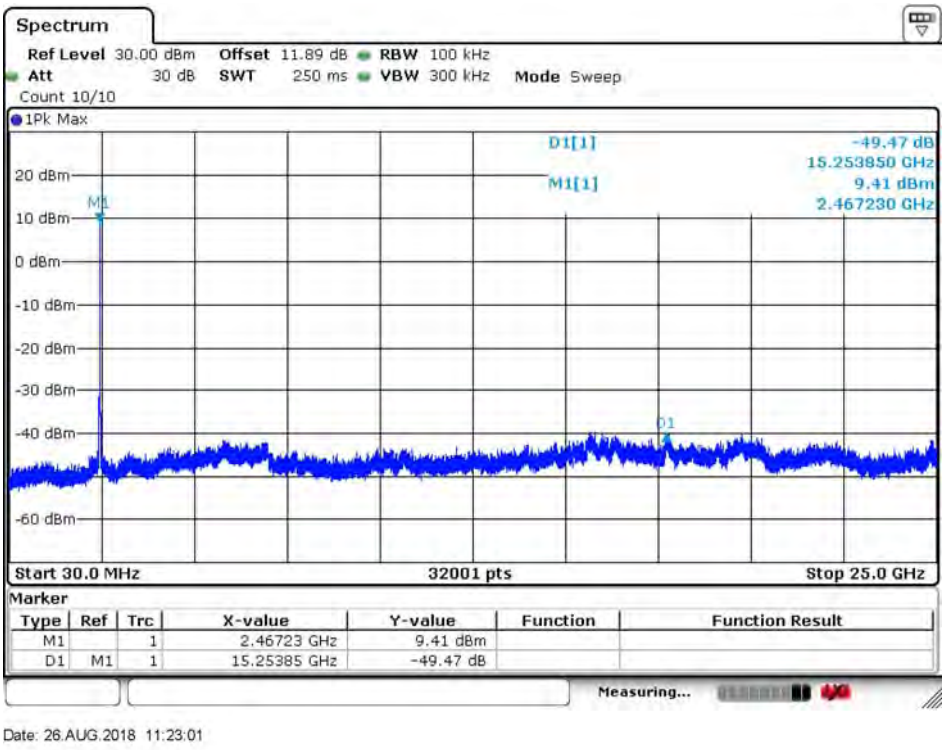
Date: 26.AUG.2018 11:19:51

2437MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 0

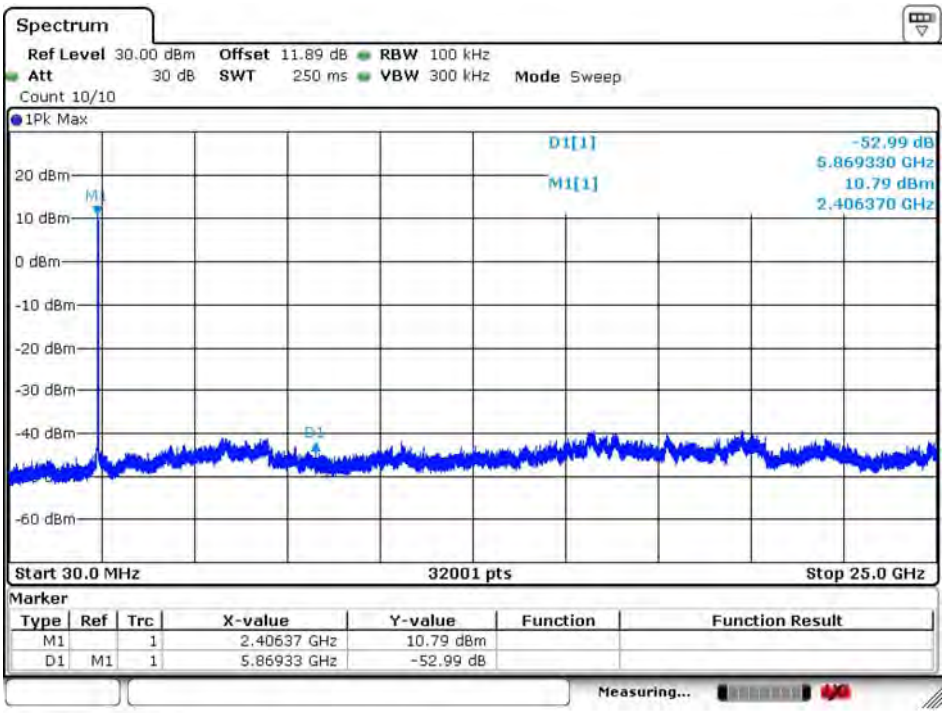


Date: 26.AUG.2018 11:21:49

2462MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 0

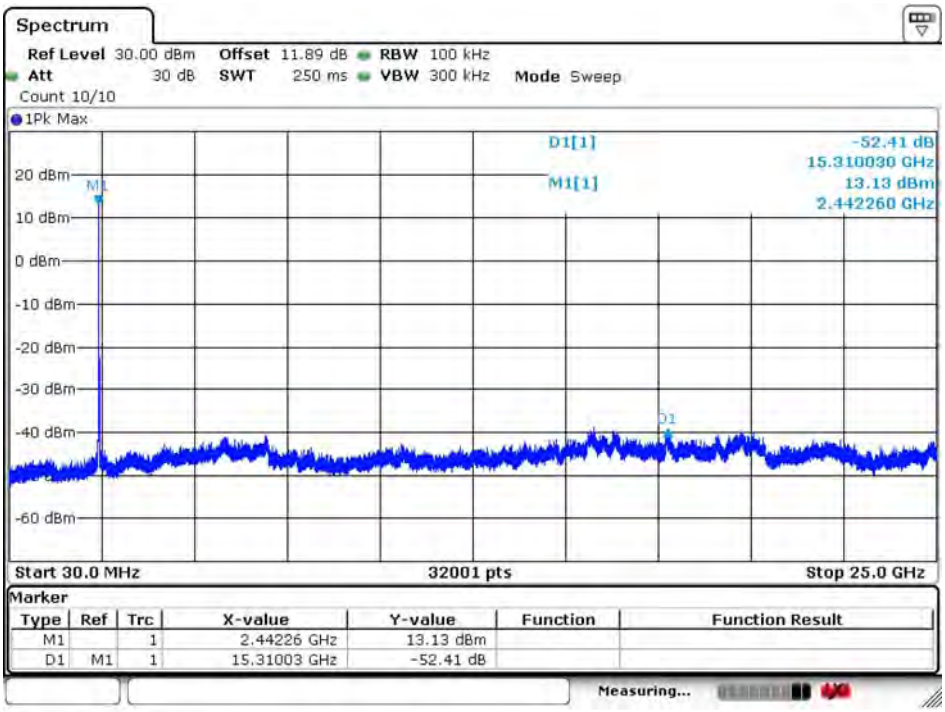


2412MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 1



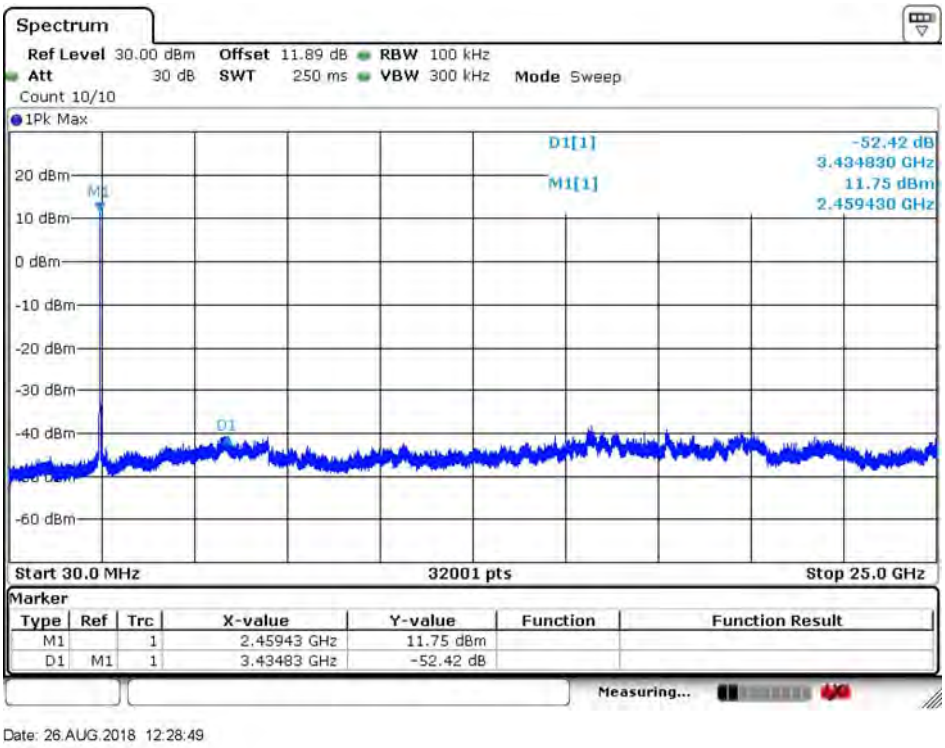
Date: 26.AUG.2018 12:23:51

2437MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 1

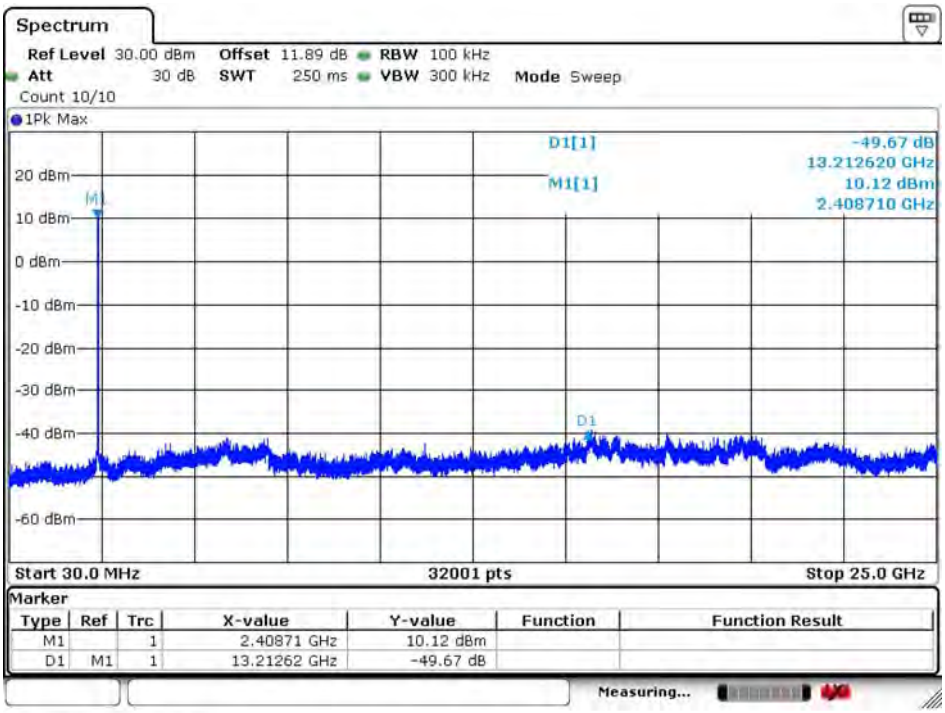


Date: 26.AUG.2018 12:25:25

2462MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 1

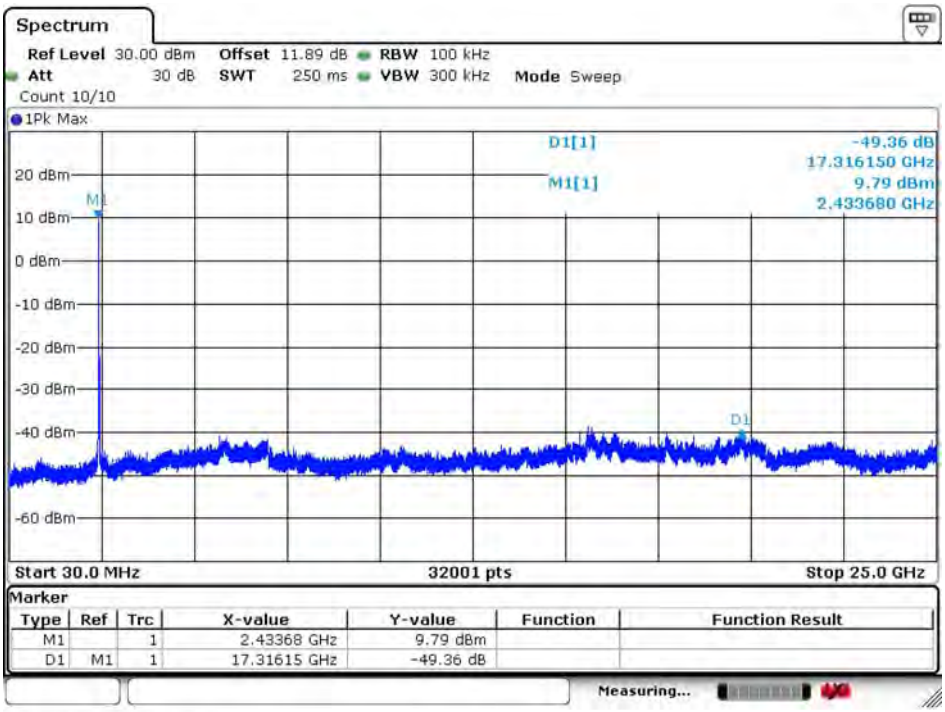


2412MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 2



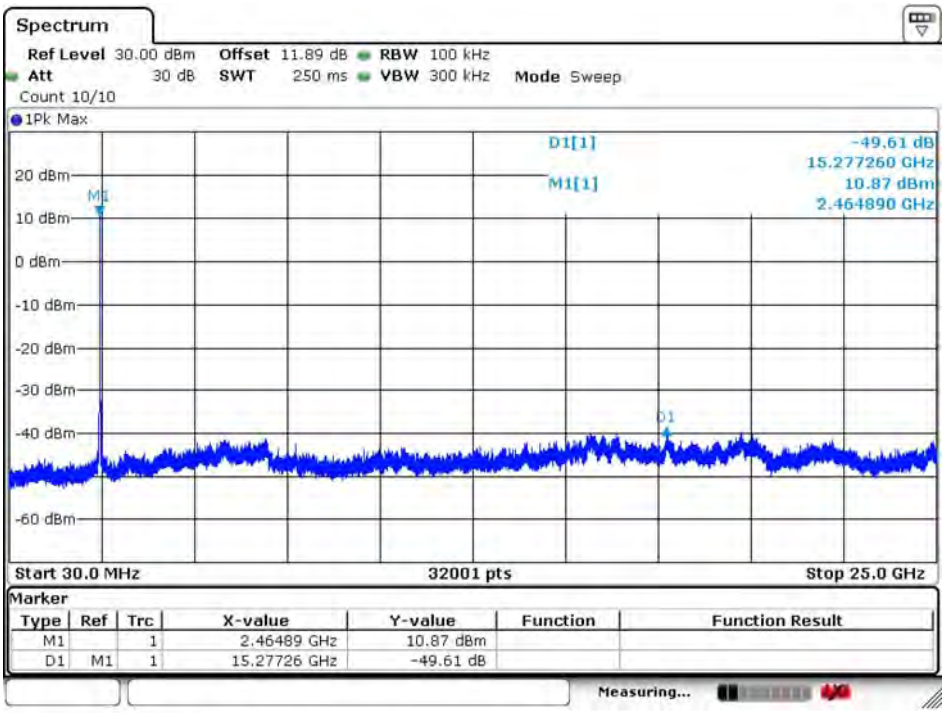
Date: 26.AUG.2018 13:30:54

2437MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 2

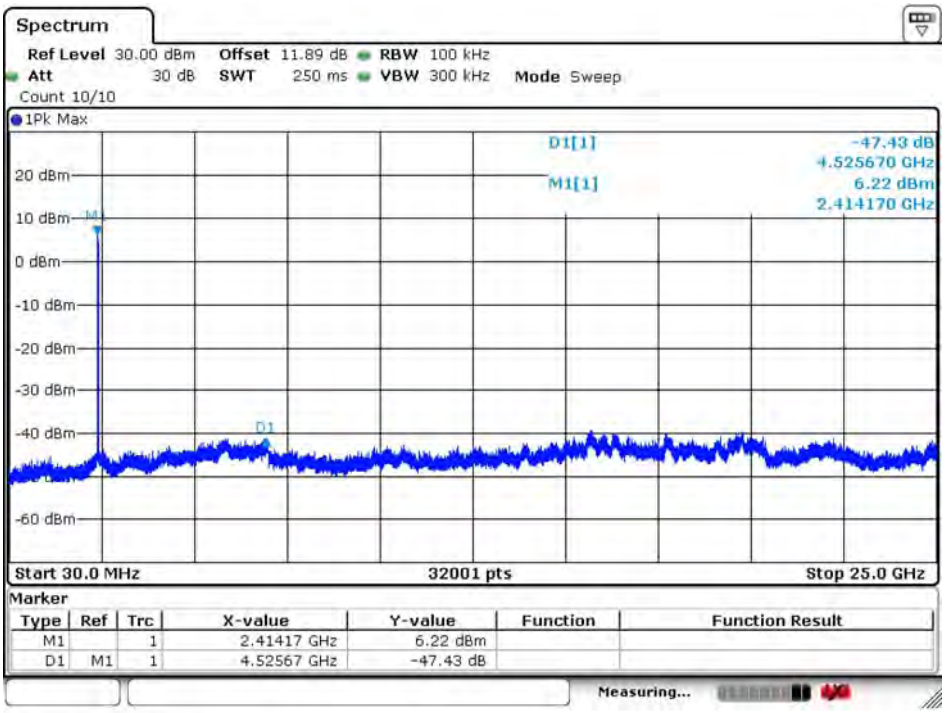


Date: 26.AUG.2018 13:32:58

2462MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 2

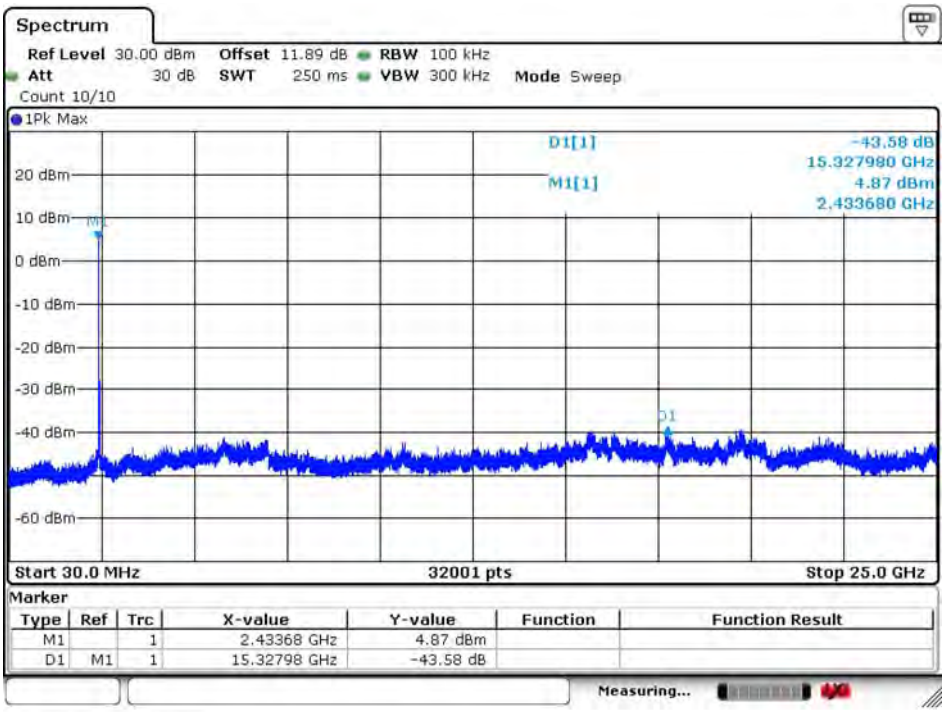


2412MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 3



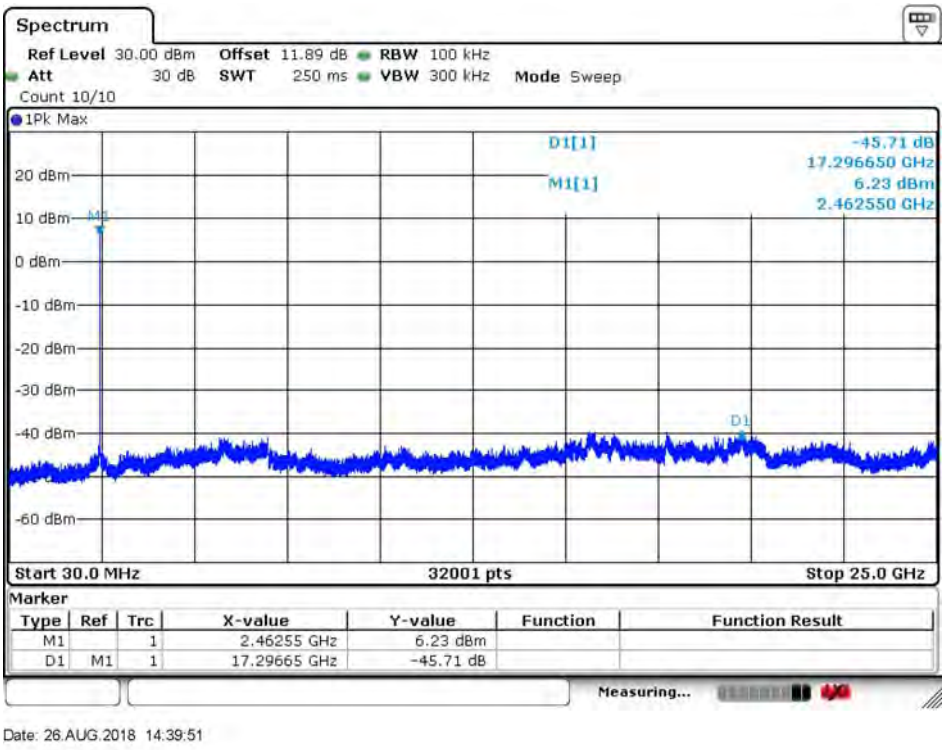
Date: 26.AUG.2018 14:36:13

2437MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 3

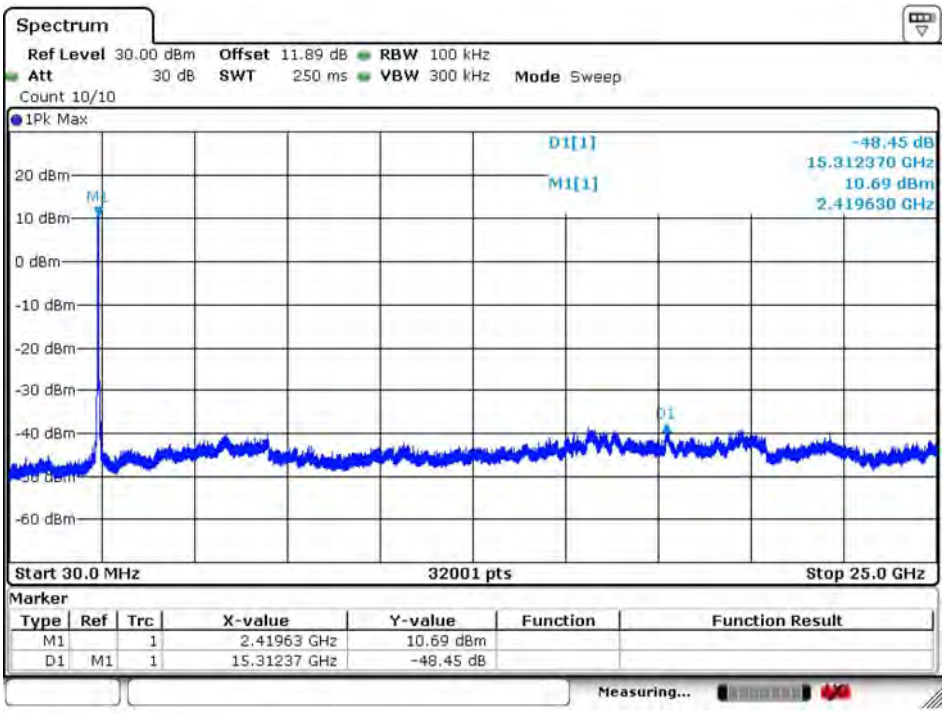


Date: 26.AUG.2018 14:38:18

2462MHz (30MHz-25GHz)-802.11ax HE(20MHz)-ANT 3

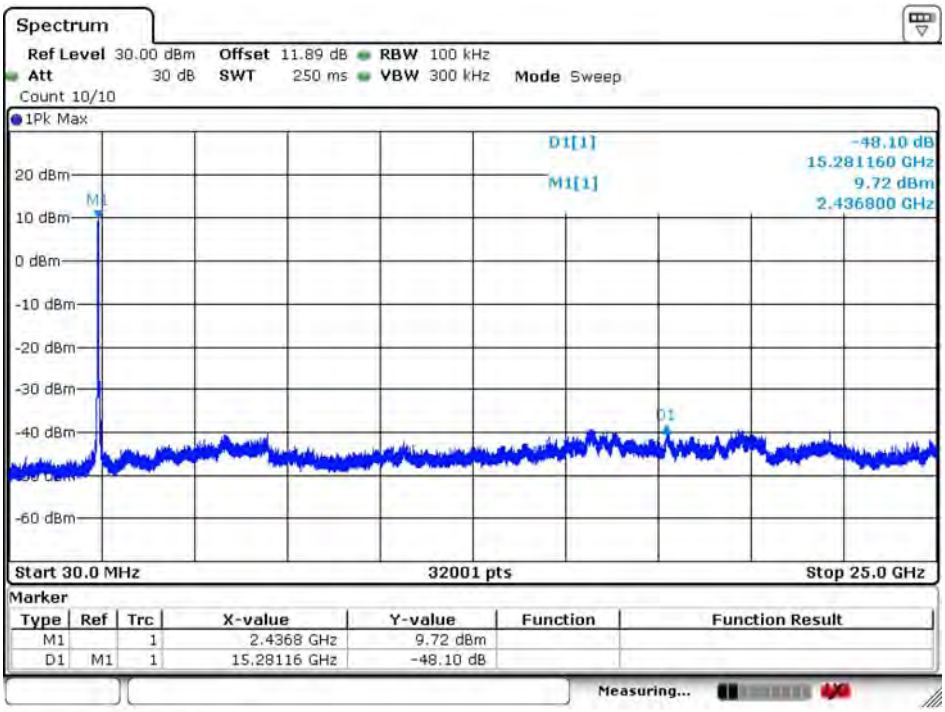


2422MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 0



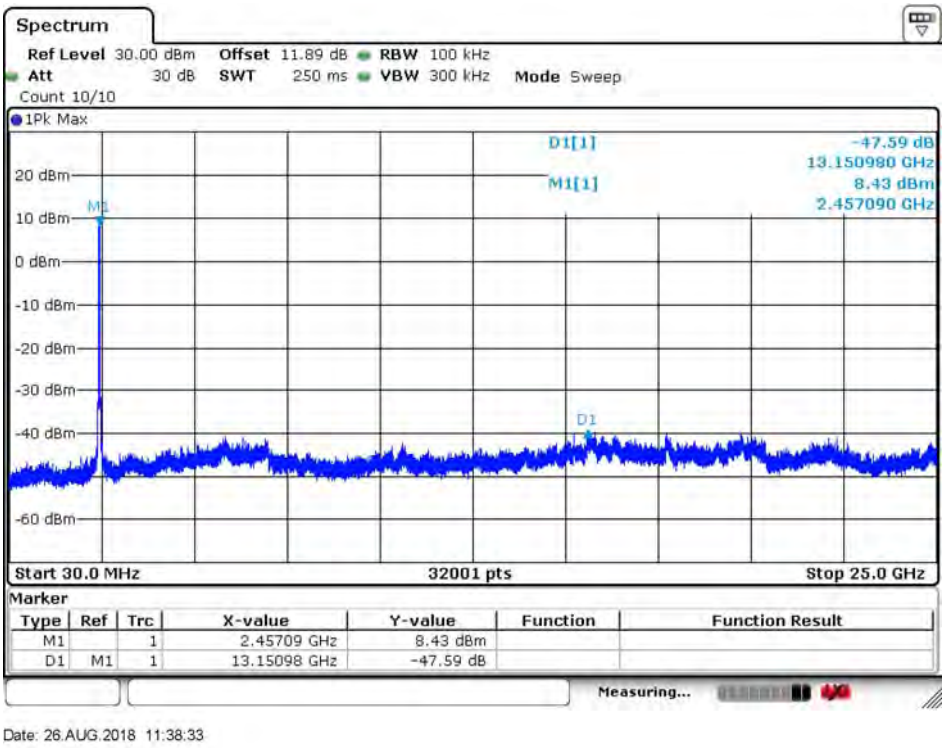
Date: 26.AUG.2018 11:33:44

2437MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 0

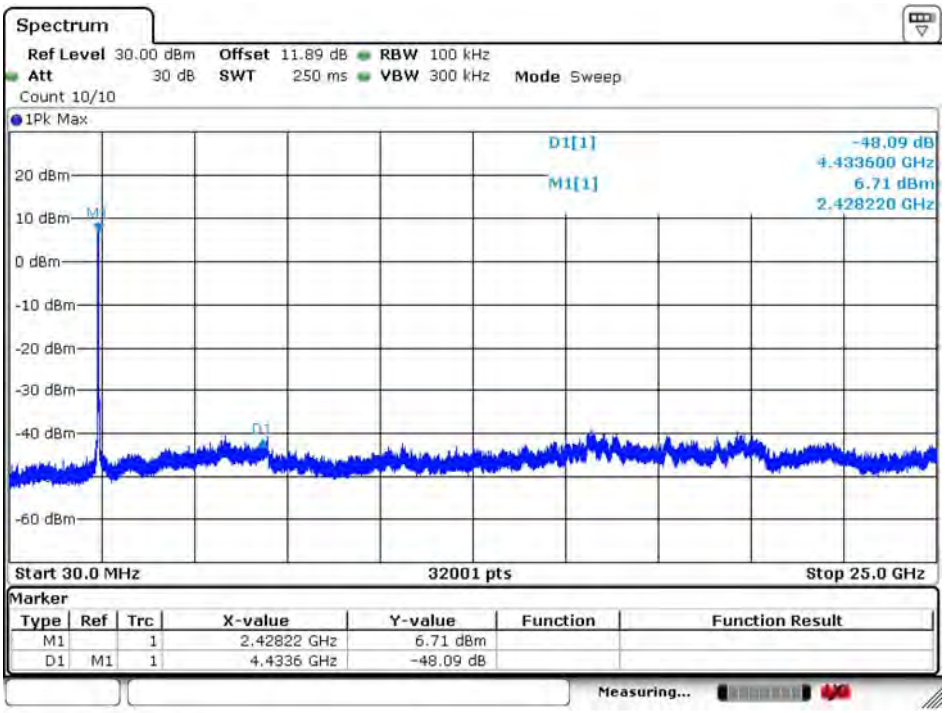


Date: 26.AUG.2018 11:31:39

2452MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 0

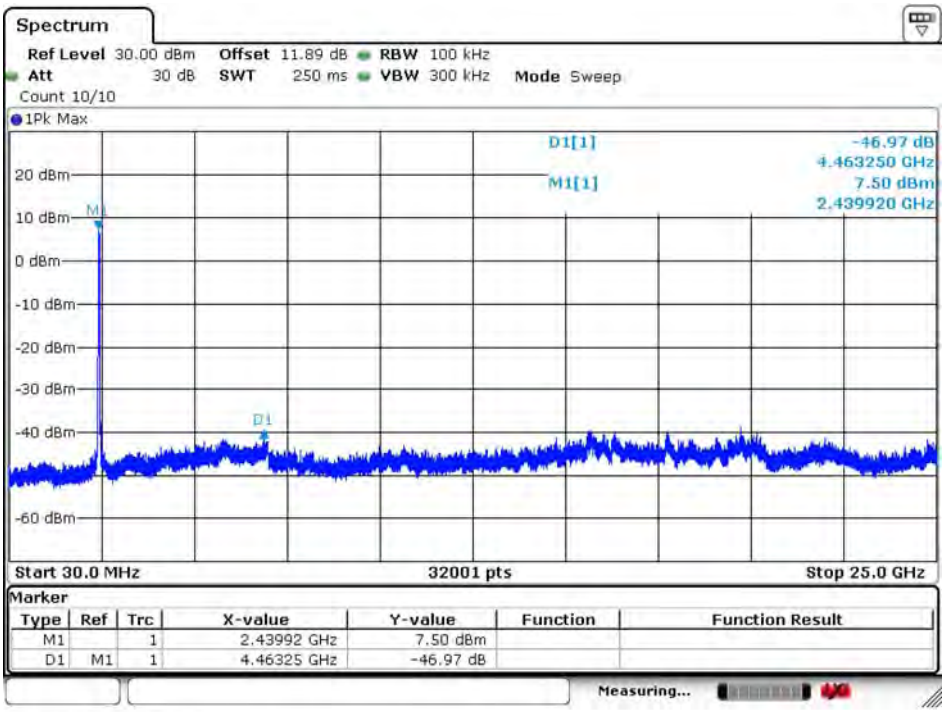


2422MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 1



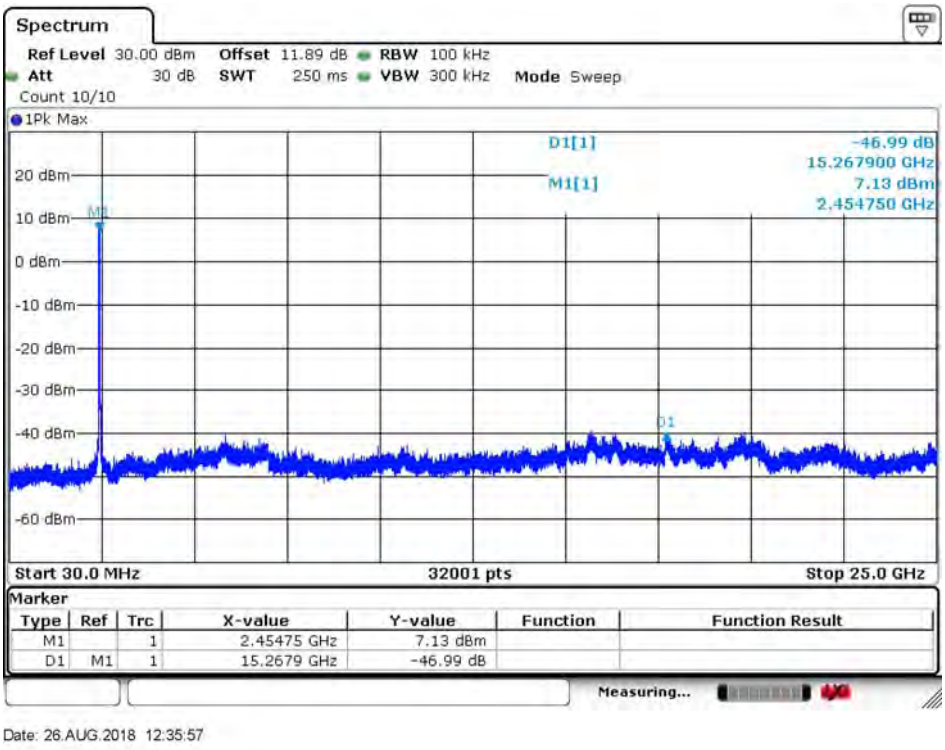
Date: 26.AUG.2018 12:32:24

2437MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 1

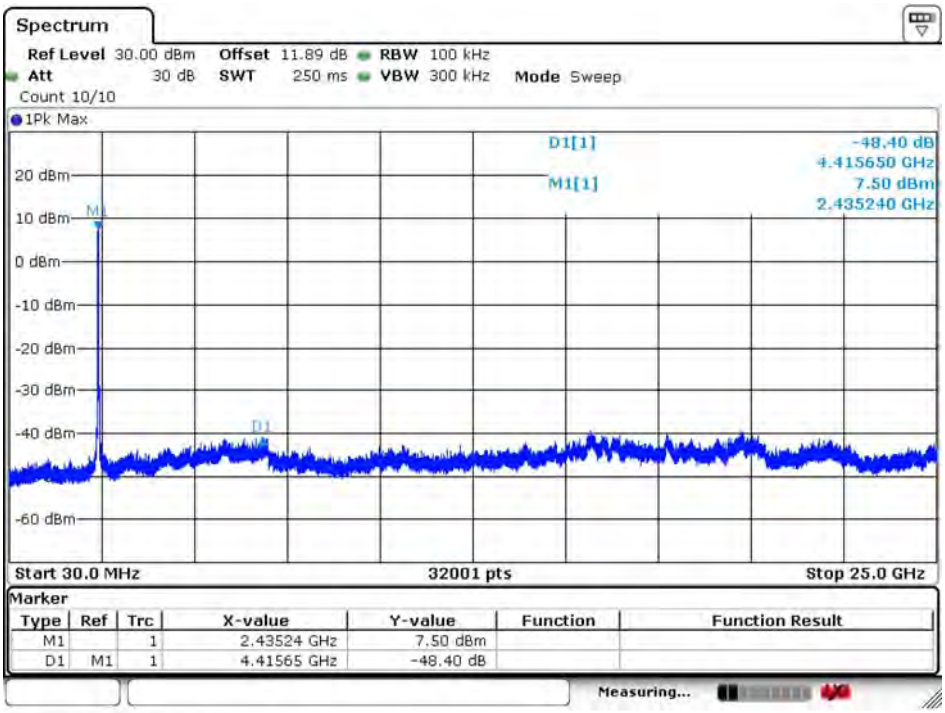


Date: 26.AUG.2018 12:34:13

2452MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 1

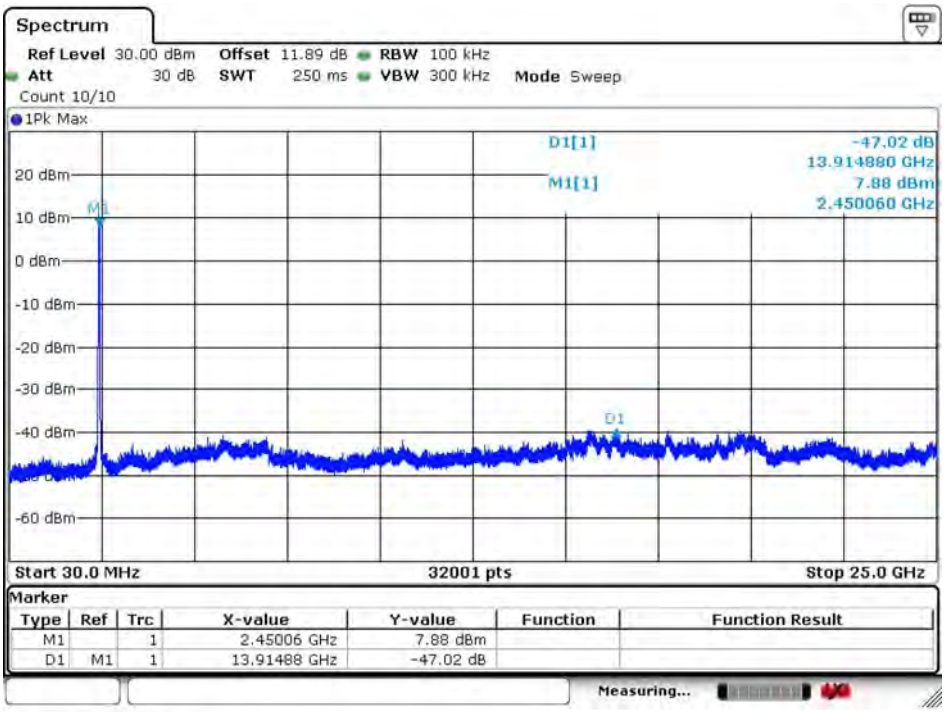


2422MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 2



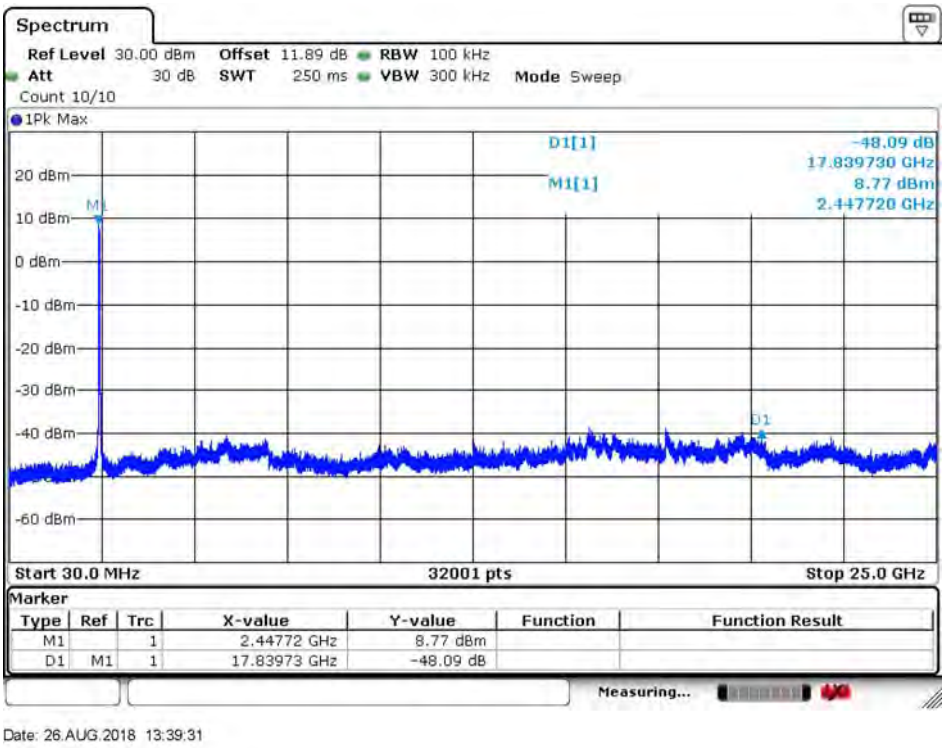
Date: 26.AUG.2018 13:35:49

2437MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 2

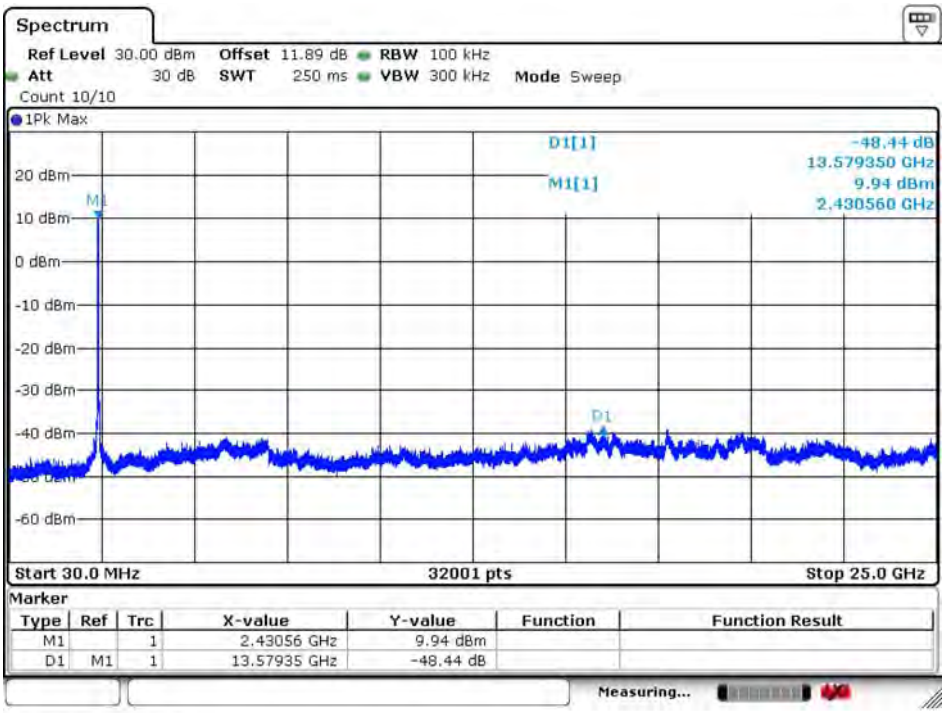


Date: 26.AUG.2018 13:38:00

2452MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 2

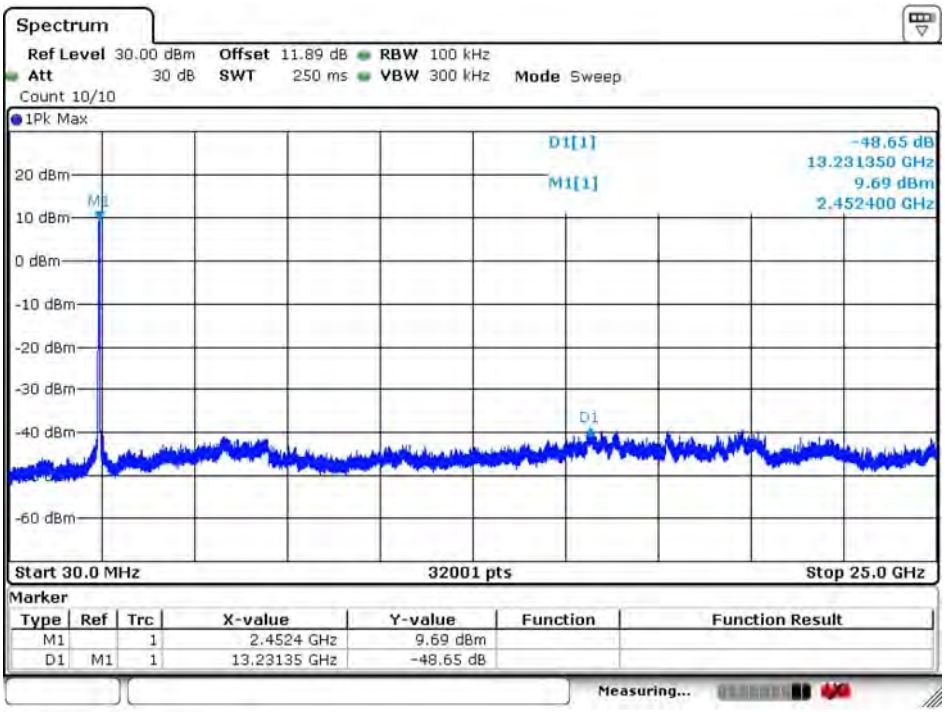


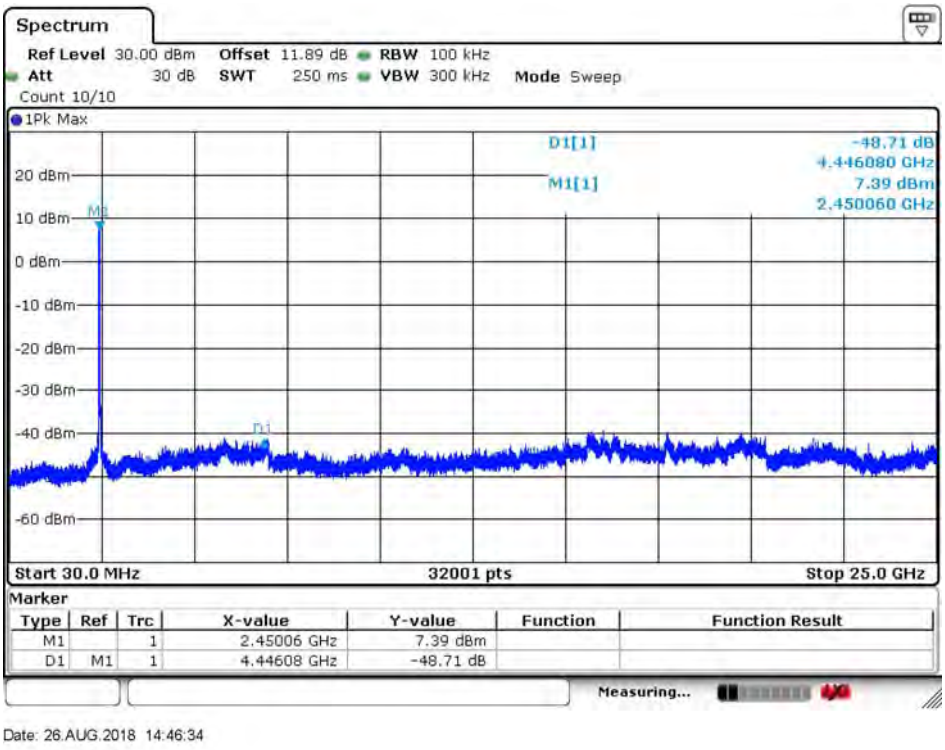
2422MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 3



Date: 26.AUG.2018 14:43:40

2437MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 3



Date: 26.AUG.2018 14:45:31

2452MHz (30MHz-25GHz)-802.11ax HE(40MHz)-ANT 3