

TEST REPORT



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Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2008-0259

2. Customer

• Name (FCC) : Point Mobile Co., LTD. / Name (IC) : POINTMOBILE CO.,LTD

• Address (FCC) : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709
Address (IC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)

3. Use of Report : FCC & IC Original Grant

4. Product Name / Model Name : Mobile Computer / PM451W
FCC ID : V2X-PM451W / IC : 10664A-PM451W

5. Test Method Used : KDB558074 D01v05r02, ANSI C63.10-2013
Test Specification : FCC Part 15.247

RSS-247 Issue 2(2017-02), RSS-GEN Issue 5(2019-03)

6. Date of Test : 2020.05.22 ~ 2020-06-17, 2020.06.29 ~ 2020.07.02

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by	Reviewed by
	Name : JaeHyeok Bang 	Name : JaeJin Lee  (Signature)

2020. 08. 24.

DT&C Co., Ltd.

Not abided by KS Q ISO / IEC 17025 and KOLAS accreditation.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2008-0259	Aug. 24, 2020	Initial issue	JaeHyeok Bang	JaeJin Lee

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1. EUT DESCRIPTION

FCC Equipment Class	Digital Transmission System(DTS)
Product	Mobile Computer
Model Name(FCC, IC)	PM451W
Add Model Name (FCC)	NA
Add Model Name (IC)	NA
Hardware Version	MP
Software Version	45.00xxx
Serial Number (Reference Model) ^{Note1}	Conducted : 2010510294 Radiated: 2010610203
Serial Number (Separated Model) ^{Note2}	Conducted : 2010610195 Radiated: 2010610230
Power Supply	DC 3.7 V
Frequency Range	802.11b/g/n(20 MHz) : 2 412 MHz ~ 2 462 MHz 802.11n/ac(40 MHz) : 2 422 MHz ~ 2 452 MHz
Max. RF Output Power	2.4 GHz Band 802.11b : 21.42 dBm 802.11g : 22.52 dBm 802.11n (HT20) : 22.73 dBm 802.11ac (VHT20) : 23.16 dBm 802.11n (HT40) : 23.42 dBm 802.11ac (VHT40) : 22.76 dBm
Modulation Type	802.11b: CCK, DSSS 802.11g/n/ac: OFDM
Antenna Specification	Antenna type: LDS Antenna Antenna gain: Refer to the clause 7 in test report.

Note1: Reference FCC ID: V2X-PM451 / IC: 10664A-PM451

Note2: Separated FCC ID: V2X-PM451W / IC: 10664A-PM451W

Transmitting configuration of EUT

Mode	SISO		MIMO(CDD)	MIMO(SDM)
	Ant 1	Ant 2	Ant 1 & 2	Ant 1 & 2
	Data rate			
802.11b	1 Mbps ~ 11 Mbps	1 Mbps ~ 11 Mbps	1 Mbps ~ 11 Mbps	-
802.11g	6 Mbps ~ 54 Mbps	6 Mbps ~ 54 Mbps	6 Mbps ~ 54 Mbps	-
802.11n(HT20)	MCS 0 ~ MCS 7	MCS 0 ~ MCS 7	MCS 0 ~ MCS 7	MCS 8 ~ MCS 15
802.11ac(VHT20)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (2SS)
802.11n(HT40)	MCS 0 ~ MCS 7	MCS 0 ~ MCS 7	MCS 0 ~ MCS 7	MCS 8 ~ MCS 15
802.11ac(VHT40)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (1SS)	MCS 0 ~ MCS 8 (2SS)

Note1: SDM = Spatial Diversity Multiplexing, CDD = Cycle Delay Diversity, SS = Spatial Streams

2. INFORMATION ABOUT TESTING

2.1 Explanations for Reference Test Data

2.1.1 Introduction

This report includes the WLAN test data of FCC ID: V2X-PM451 / IC: 10664A-PM451 with reference to KDB 484596 D01v01. The applicant takes full responsibility that the test data as reference section below represents compliance for FCC ID: V2X-PM451W / IC: 10664A-PM451W.

Reference FCC ID / IC	Exhibit type	Separated FCC ID / IC
FCC ID: V2X-PM451 / IC: 10664A-PM451	Original Grant / New Single Certification	FCC ID: V2X-PM451W / IC: 10664A-PM451W

2.1.2 Explain the Differences

FCC ID: V2X-PM451W / IC: 10664A-PM451W is same the internal printed circuit board with FCC ID: V2X-PM451 / IC: 10664A-PM451. For FCC ID: V2X-PM451W / IC: 10664A-PM451W, WWAN module has been removed. (It does not changed the SW/HW component of WLAN.)

2.1.3 Spot Check Verification Data

Equipment Class (capability)	FCC Part/ RSS Std.	Mode	TX Freq. (MHz)	Test item	Detector Mode	Reference FCC ID: V2X-PM451 / IC: 10664A-PM451		Separated FCC ID: V2X-PM451W / IC: 10664A-PM451W		Limit (dBuV/m)	Deviation (dB)
						Frequency (MHz)	Result (dBuV/m)	Frequency (MHz)	Result (dBuV/m)		
DTS (WLAN)	15.247 / RSS-247	802.11n (HT40)	2 452	Radiated Band edge	Average	2 484.71	51.08	2 486.07	51.85	54.00	0.77
		802.11b	2 437	Radiated Spurious emission	Average	4 874.02	46.53	4 873.86	44.94	54.00	-1.59

Note1: The spot check were performed based on worst-case results reported in the original test report.

The spot check test results are within 3dB and two products shows a good correlation. It also complies with the FCC limit.

2.1.4 Reference Section

Reference FCC ID: V2X-PM451 / IC: 10664A-PM451

Equipment Class	FCC Part/ RSS Std.	Capability	Band(MHz)	Exhibit type	Report title	Reference Sections
DTS	15.247 / RSS-247	WLAN	2 412 ~ 2 462	Original Grant/ New Single Certification	DTS_WLAN	All

2.2 Test mode

Test mode	Worst case data rate	Tested Frequency (MHz)		
TM 1	802.11b 1 Mbps (CDD Multiple transmitting)	2 412	2 437	2 462
TM 2	802.11g 54 Mbps (CDD Multiple transmitting)	2 412	2 437	2 462
TM 3	802.11ac(VHT20) MCS 8 (CDD Multiple transmitting)	2 412	2 437	2 462
TM 4	802.11n(HT40) MCS 7 (CDD Multiple transmitting)	2 412	2 437	2 462

Note1: The worst case data rate was determined according to the power measurements.

Note2: We have done all TX test cases and attached the MIMO test result of 802.11b/g/n/ac mode since MIMO is the worst case.

Note3: The power measurement results for all modes and data rate were reported.

2.3 Auxiliary equipment

Equipment	Model No.	Serial No.	Manufacturer	Note
-	-	-	-	-
-	-	-	-	-

2.4 Tested environment

Temperature	: +20 °C ~ +25 °C
Relative humidity content	: +35 % ~ +45 %
Details of power supply	: DC 3.7 V

2.5 EMI suppression Device(s) / Modifications

EMI suppression device(s) added and/or modifications made during testing
→ None

2.6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014 and ANSI C 63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Transmitter Output Power	0.9 dB (The confidence level is about 95 %, $k = 2$)
Conducted spurious emission	0.9 dB (The confidence level is about 95 %, $k = 2$)
AC conducted emission	3.6 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (1 GHz Below)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.1 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, $k = 2$)

3. SUMMARY OF TESTS

FCC Part	RSS Std.	Parameter	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247 [5.2]	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		C
15.247(d)	RSS-247 [5.5]	Out of Band Emissions / Band Edge	20 dBc in any 100 kHz BW		C
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8 dBm/3 kHz		C
-	RSS-Gen [6.7]	Occupied Bandwidth (99 %)	RSS-Gen(6.7)		C
15.247(d) 15.205 15.209	RSS-247 [5.5] RSS-GEN [8.9] RSS-GEN [8.10]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	FCC 15.209 limits	Radiated	C Note 3
15.207	RSS-Gen [8.8]	AC Line Conducted Emissions	FCC 15.207 limits	AC Line Conducted	C
15.203	RSS-Gen [8.3]	Antenna Requirements	FCC 15.203	-	C

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: This test item was performed in each axis and the worst case data was reported.

4. TEST METHODOLOGY

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r02 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB558074 D01v05r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

4.1 EUT configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r02.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector

Radiated Emissions

Basically the radiated tests were performed with KDB558074 D01v05r02. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10 as stated on section 12.1 of the KDB558074 D01V05R02.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axes.

4.4 Description of test modes

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode.

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Operation test setup for EUT

- Test Software Version: QRCT / 3.0.277.0

- Power setting:

Mode	Frequency [MHz]	Power Setting
802.11b	2 412	15.5
	2 437	15.5
	2 462	15.5
802.11g	2 412	11.5
	2 437	11.5
	2 462	11.5
802.11ac (VHT20)	2 412	11.5
	2 437	11.5
	2 462	11.0
802.11n (HT40)	2 422	11.0
	2 437	11.5
	2 452	10.0

5. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

DT&C Co., Ltd.				
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.				
- FCC & ISSED MRA Designation No. : KR0034				
- ISSED#: 5740A				
www.dtnc.net				
Telephone	:	+ 82-31-321-2664		
FAX	:	+ 82-31-321-1664		

6.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, loop, horn. Spectrum analyzers with pre-selectors and peak, quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7. ANTENNA REQUIREMENTS

7.1 According to FCC 47 CFR §15.203

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The antenna is attached on the device by means of unique coupling method (Spring Tension).
Therefore this E.U.T Complies with the requirement of §15.203**

7.2 Directional antenna gain:

Bands	SISO		MIMO (CDD) ^{Note 1.}	MIMO (SDM) ^{Note 2}
	ANT 1 [dBi]	ANT 2 [dBi]	Directional Gain [dBi]	Directional Gain [dBi]
2.4 GHz	2.56	1.01	4.83	1.85

Note 1. Directional gain (Correlated signal with unequal antenna gain and equal transmit power)

$$10 \log \left[\left(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

Note 2. Directional gain (Completely uncorrelated signal with unequal antenna gain and equal transmit power)

$$10 \log \left[\left(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10} \right) / N_{ANT} \right] \text{ dBi}$$

8. TEST RESULT

8.1 6 dB bandwidth

■ Test Requirements and limit, §15.247(a)

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r02 - Section 8.2
- ANSI C63.10-2013 – Section 11.8.2

Option 2

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = **Peak**.
4. Trace mode = **Max hold**.
5. Sweep = **Auto couple**.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level in the fundamental emission.

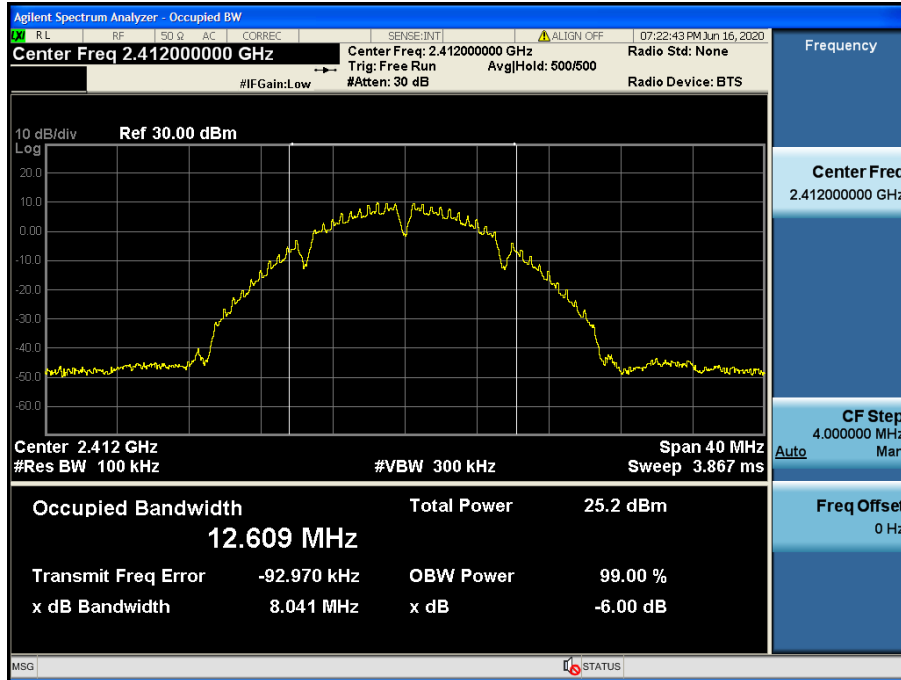
■ Test Results: **Comply**

Test Mode	Frequency	Test Results[MHz]	
		ANT 1	ANT 2
TM 1	2 412	8.04	7.58
	2 437	8.05	7.14
	2 462	8.04	8.08
TM 2	2 412	16.45	16.47
	2 437	16.47	16.44
	2 462	16.48	16.46
TM 3	2 412	17.69	17.62
	2 437	17.68	17.71
	2 462	17.70	17.71
TM 4	2 422	36.30	35.58
	2 437	36.42	35.75
	2 452	36.41	35.23

RESULT PLOTS

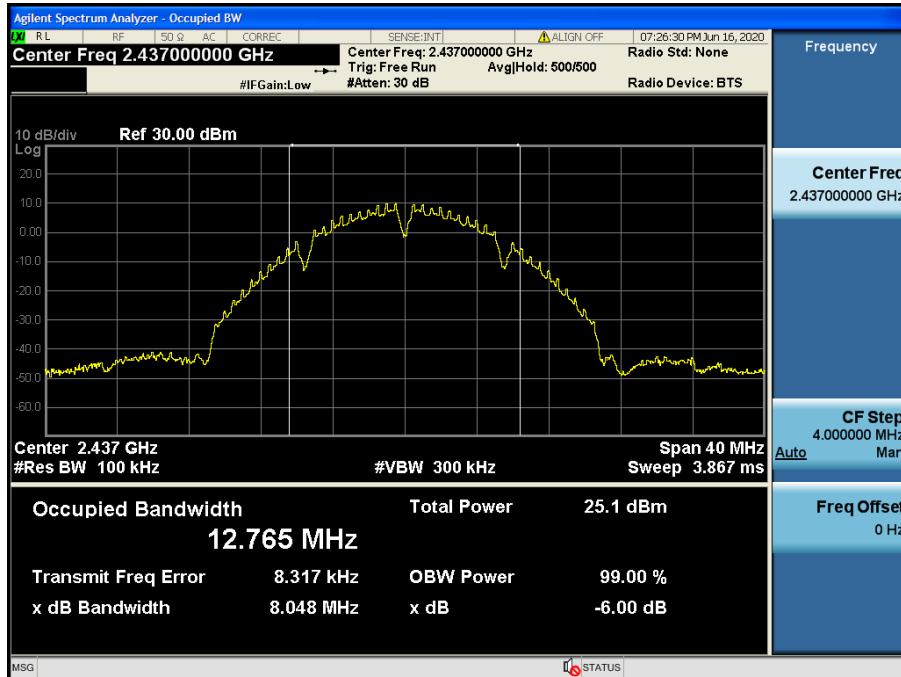
6 dB Bandwidth

TM 1 & ANT 1 & 2 412



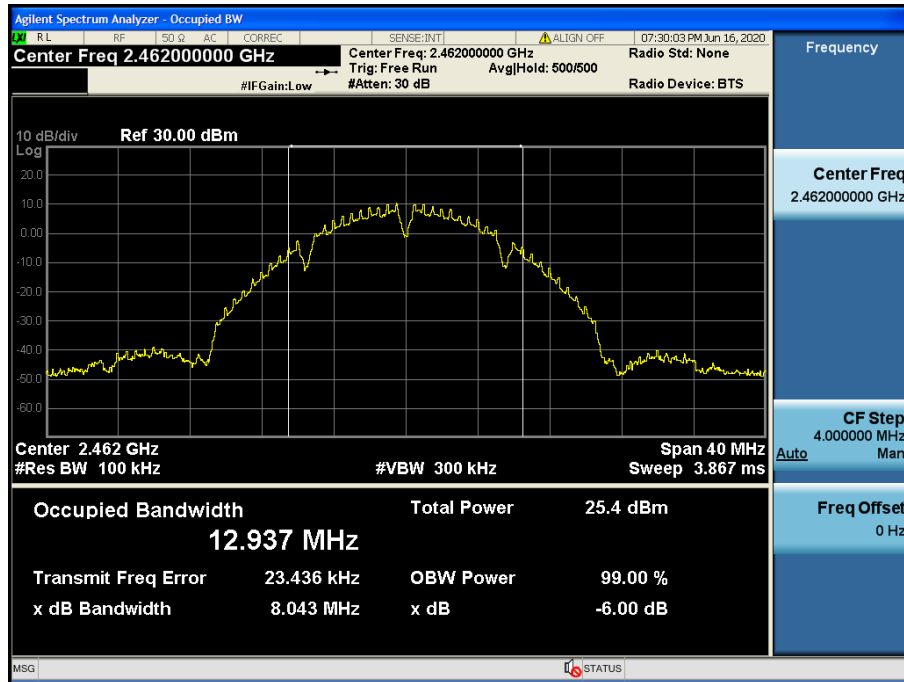
6 dB Bandwidth

TM 1 & ANT 1 & 2 437



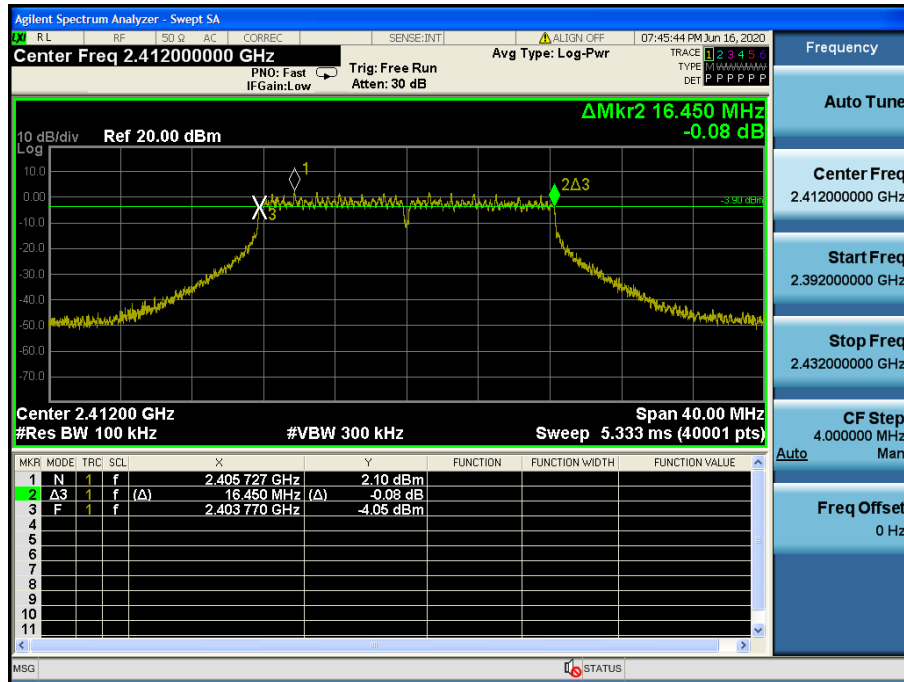
6 dB Bandwidth

TM 1 & ANT 1 & 2 462



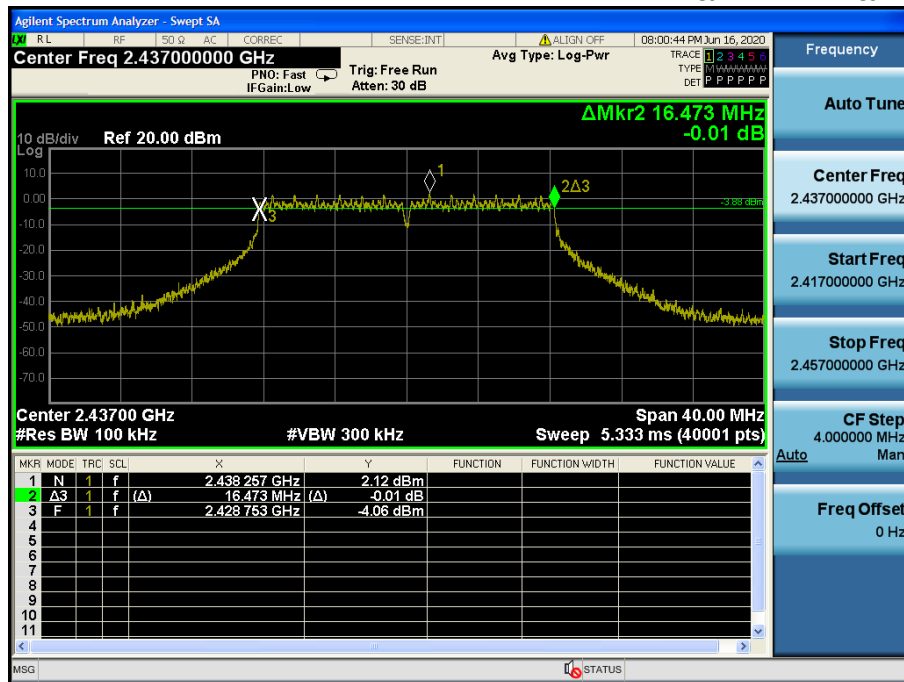
6 dB Bandwidth

TM 2 & ANT 1 & 2 412



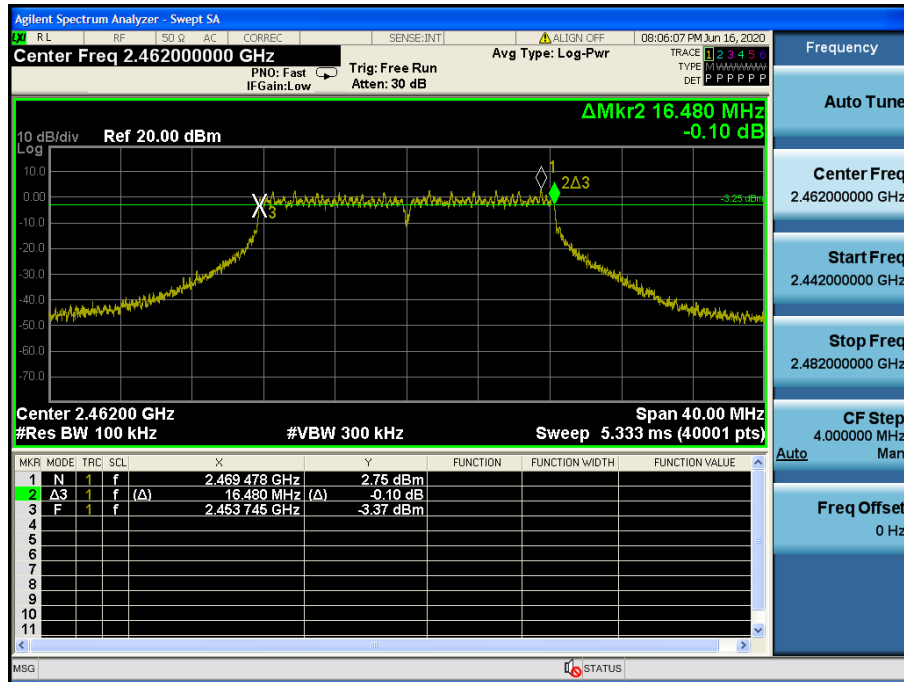
6 dB Bandwidth

TM 2 & ANT 1 & 2 437



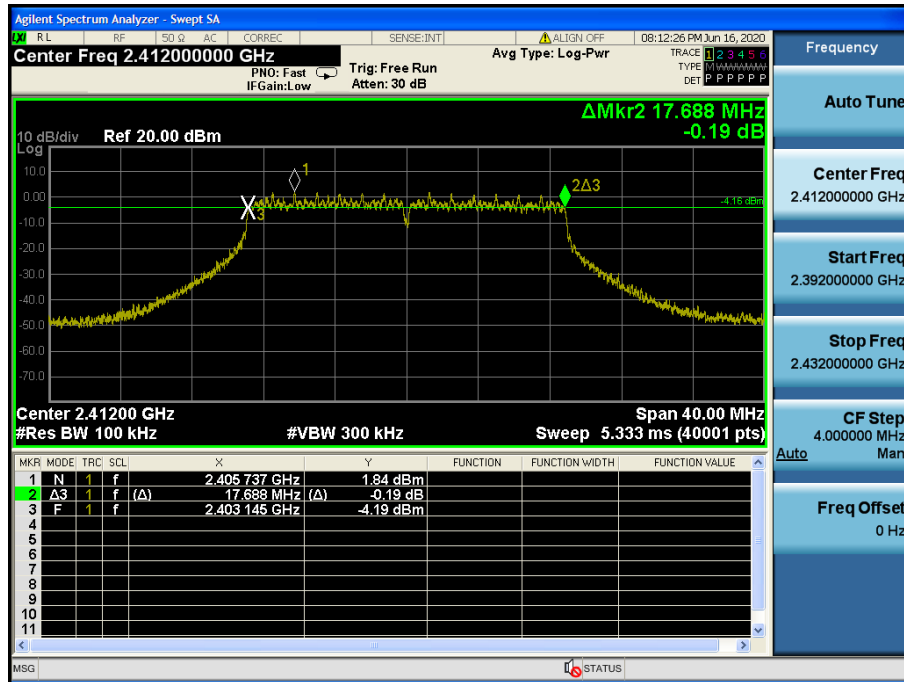
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TM 2 & ANT 1 & 2 462



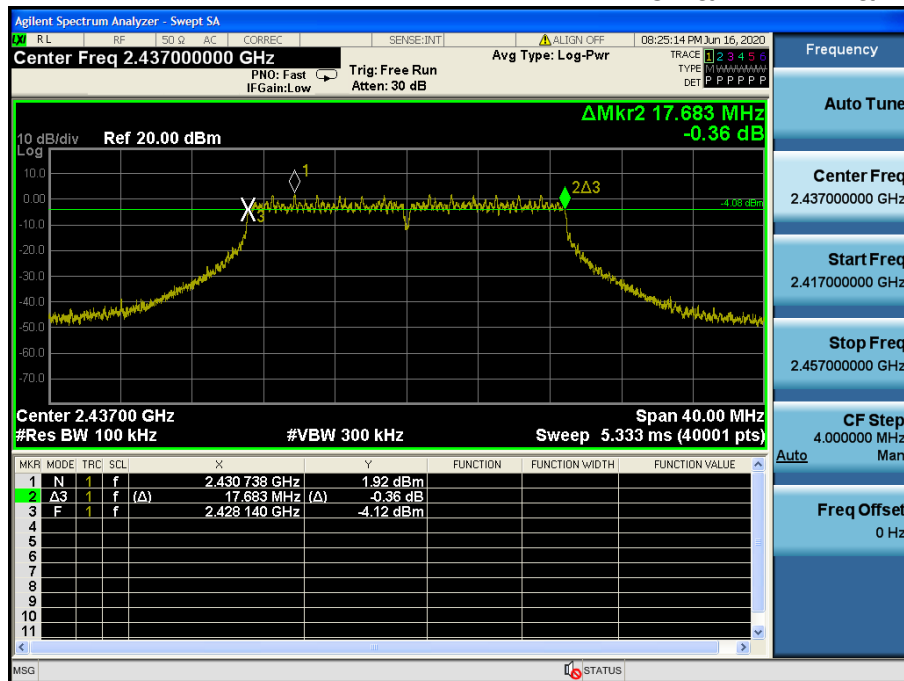
6 dB Bandwidth

TM 3 & ANT 1 & 2 412



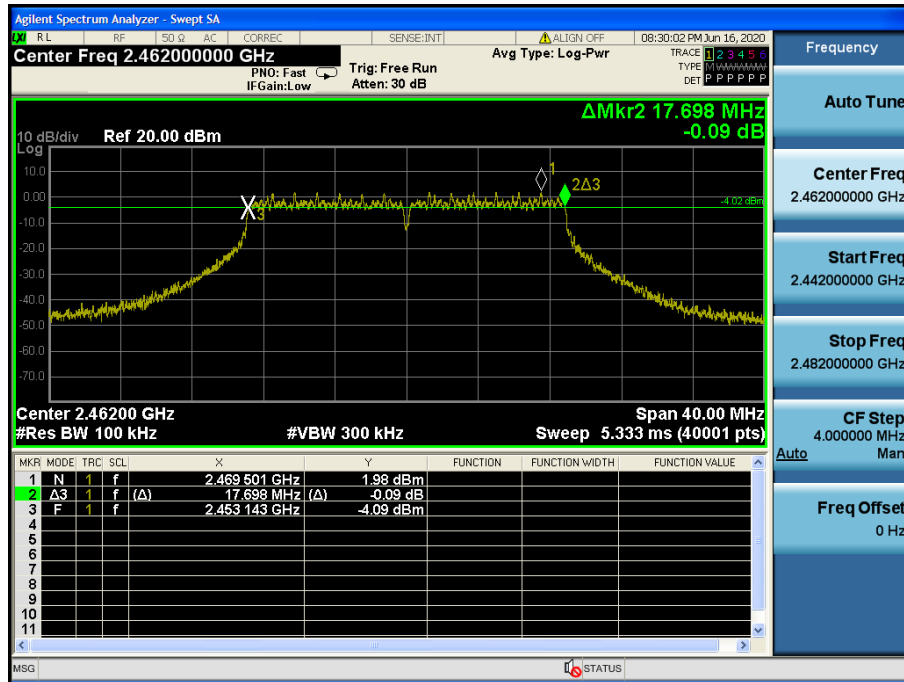
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TM 3 & ANT 1 & 2 437



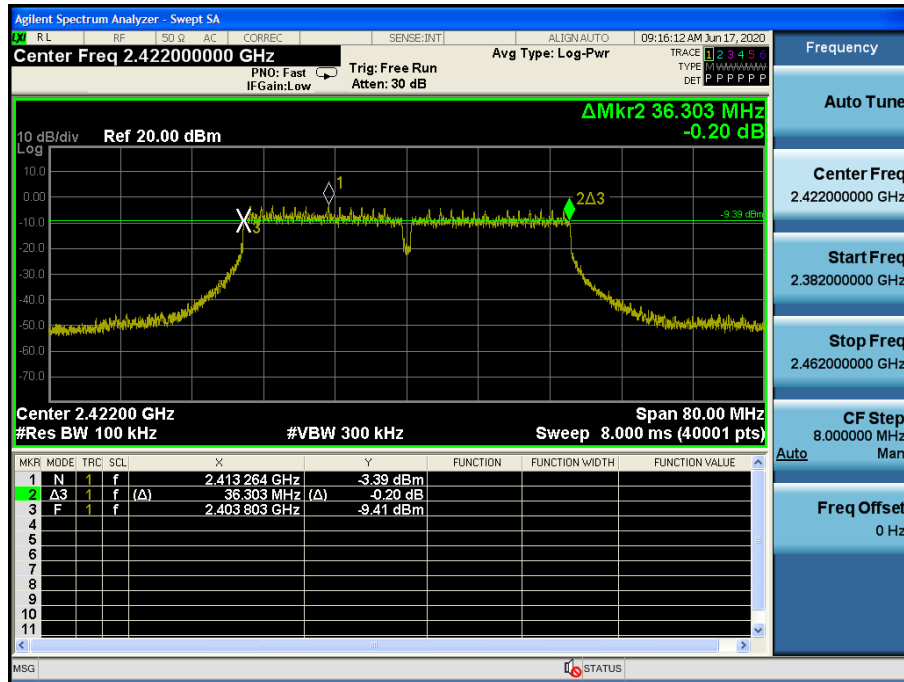
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TM 3 & ANT 1 & 2 462



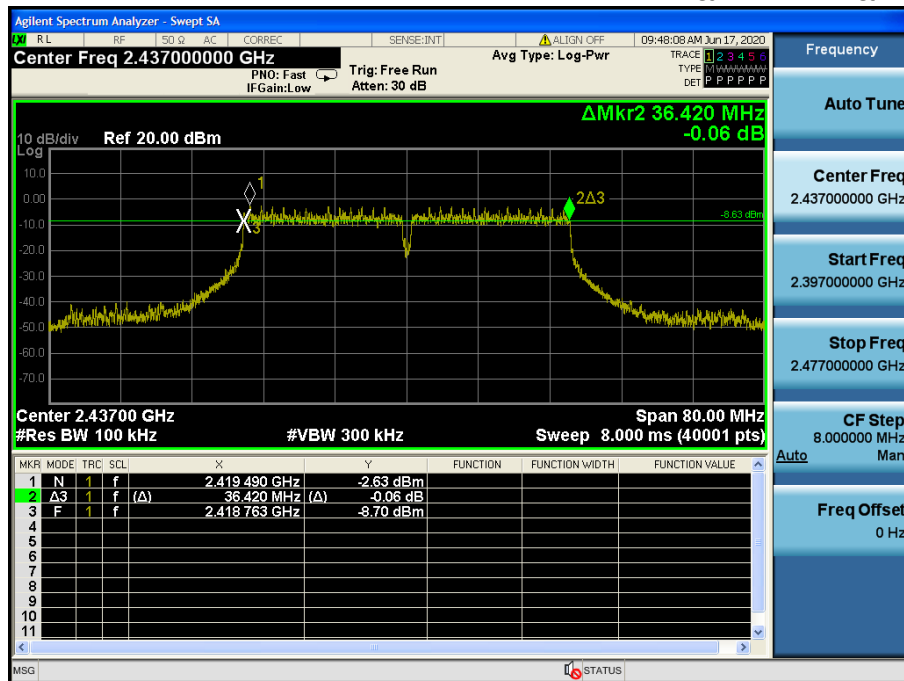
6 dB Bandwidth

TM 4 & ANT 1 & 2422



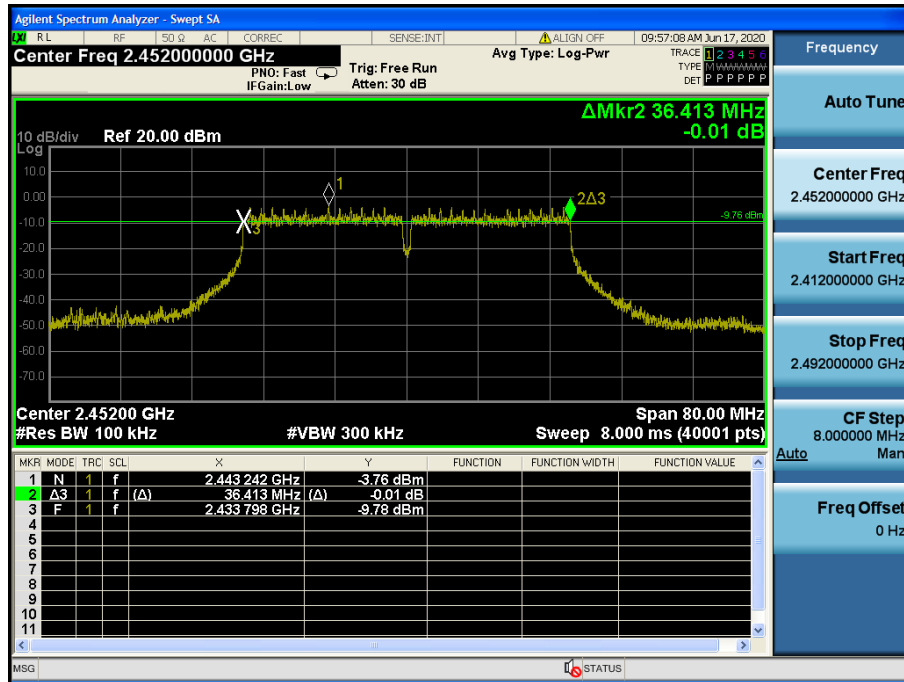
6 dB Bandwidth

TM 4 & ANT 1 & 2437



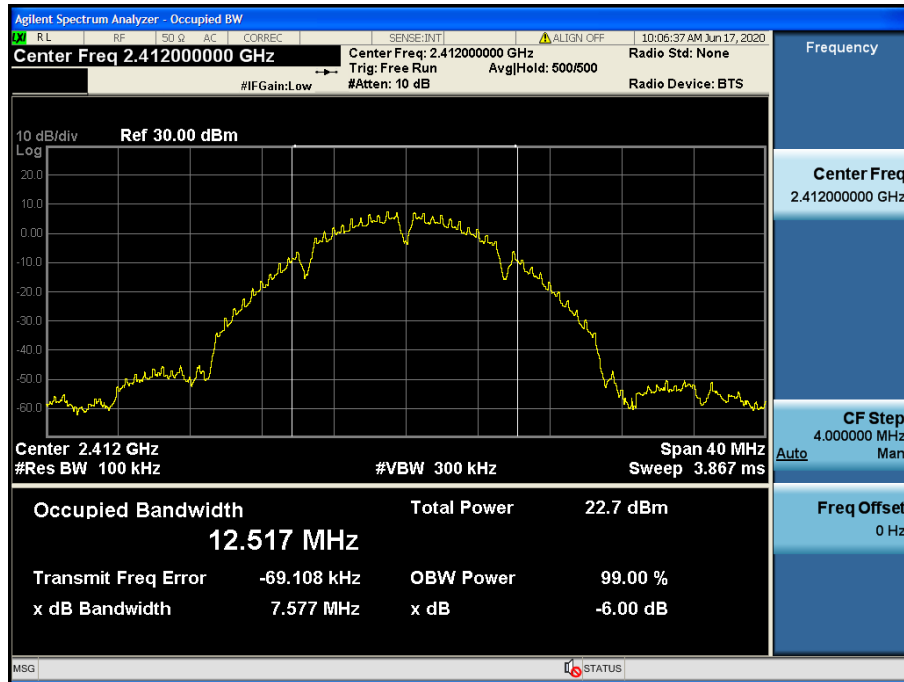
6 dB Bandwidth

TM 4 & ANT 1 & 2 452



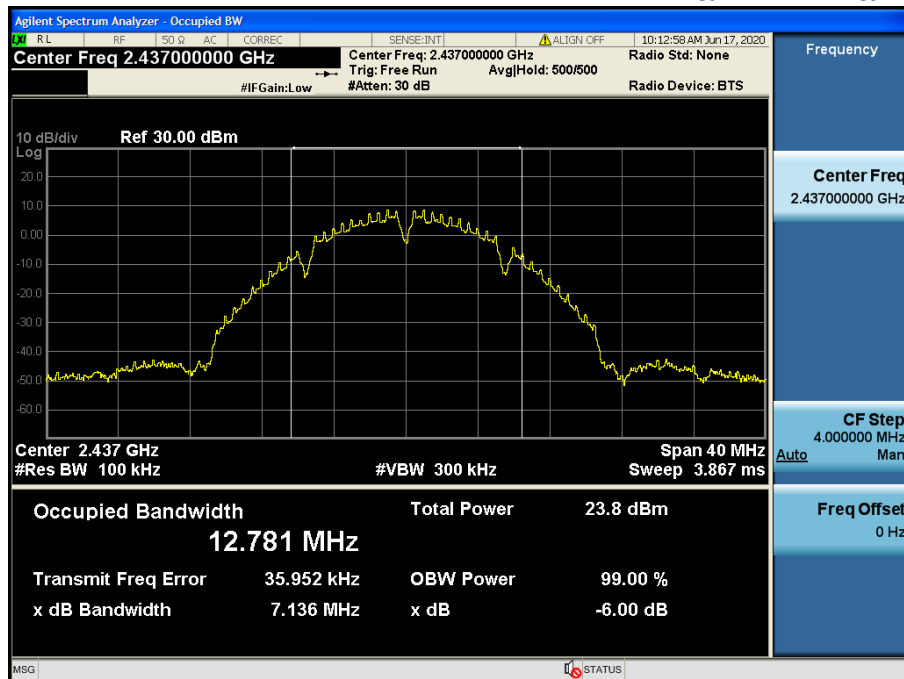
6 dB Bandwidth

TM 1 & ANT 2 & 2 412



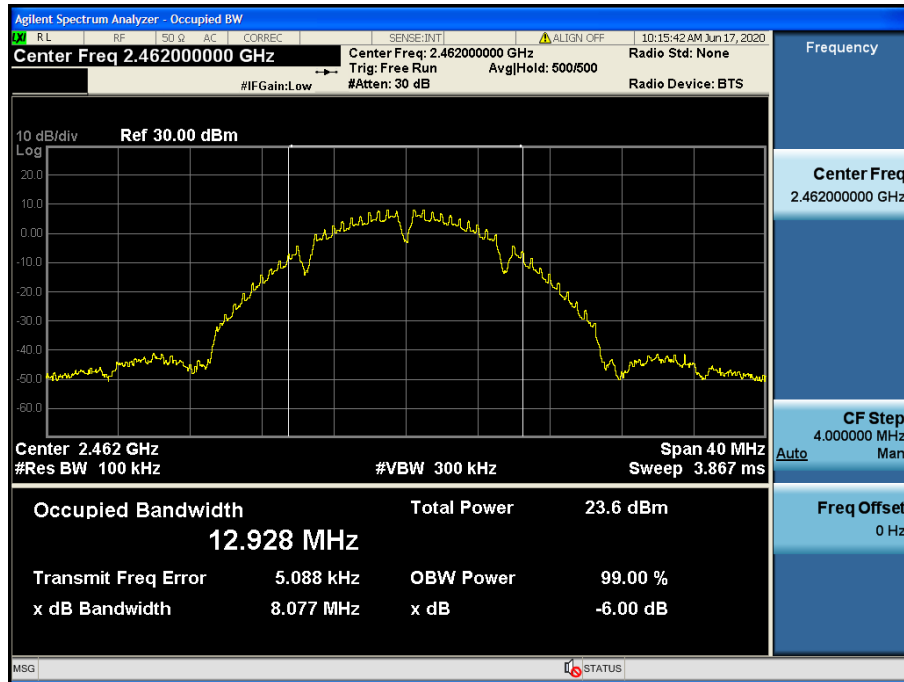
6 dB Bandwidth

TM 1 & ANT 2 & 2 437



6 dB Bandwidth

TM 1 & ANT 2 & 2 462



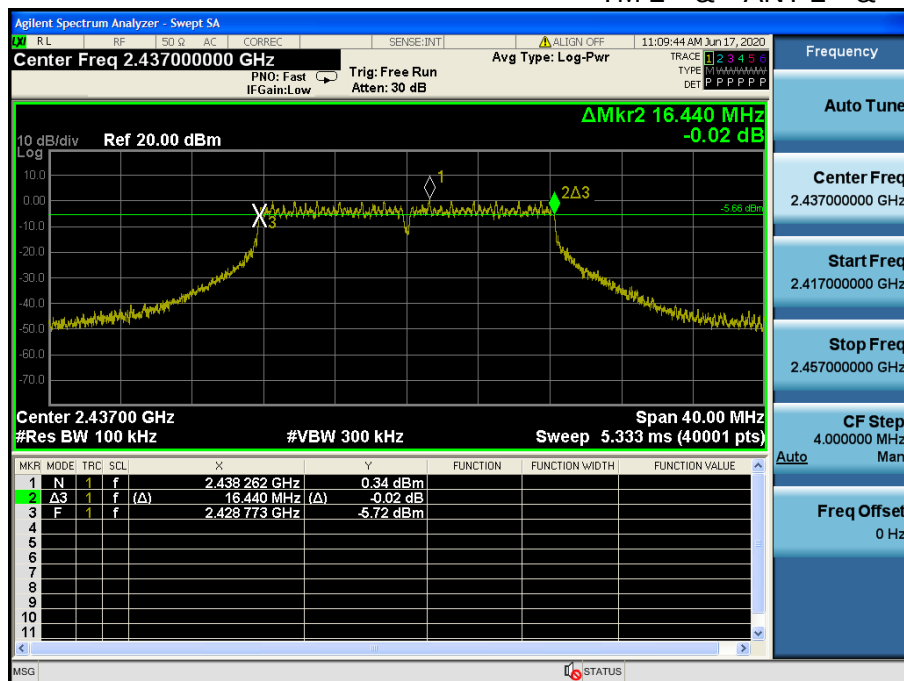
6 dB Bandwidth

TM 2 & ANT 2 & 2 412



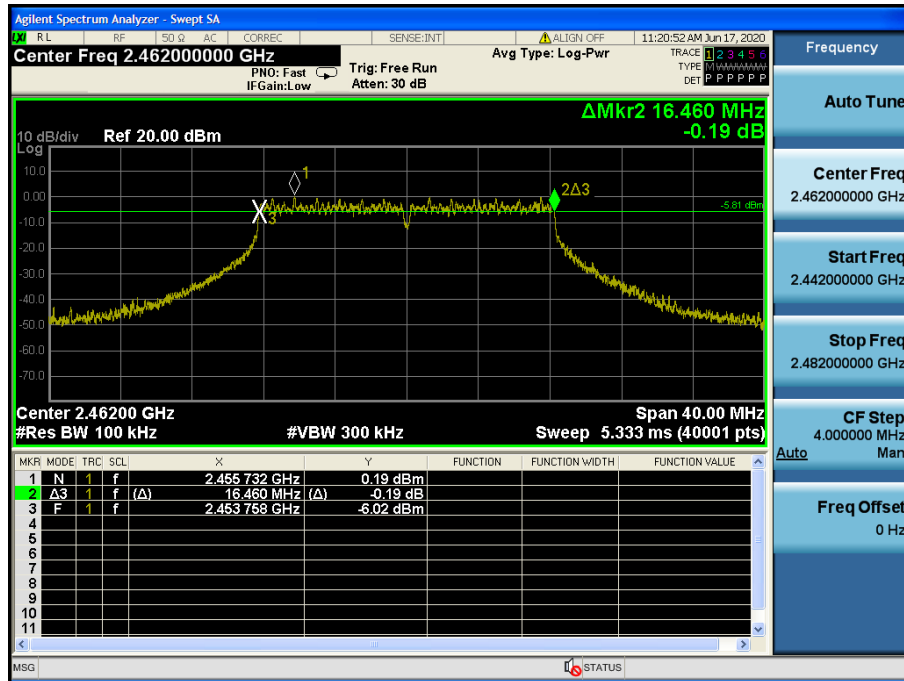
6 dB Bandwidth

TM 2 & ANT 2 & 2 437



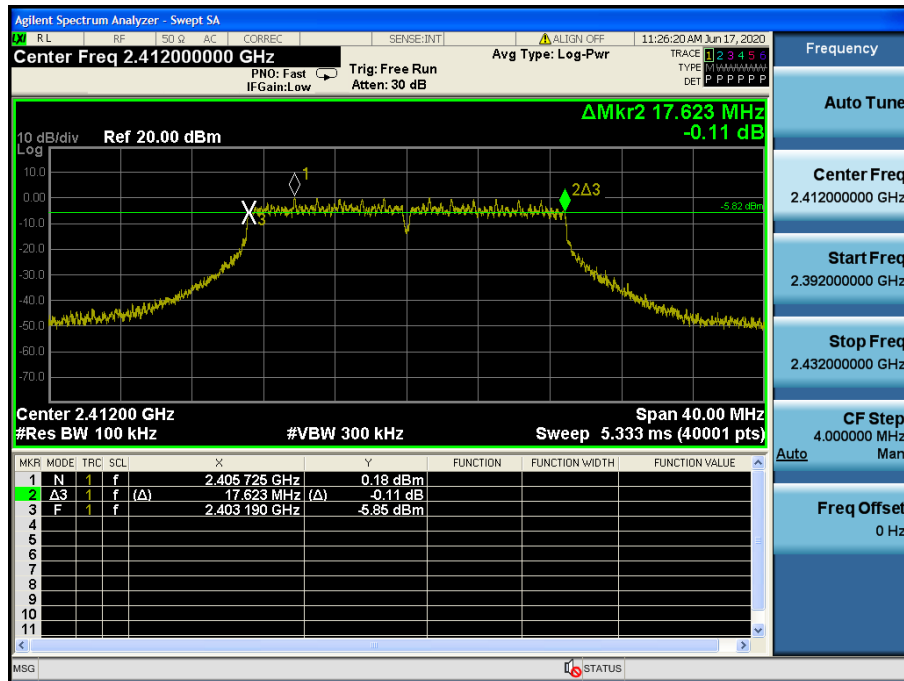
6 dB Bandwidth

TM 2 & ANT 2 & 2 462



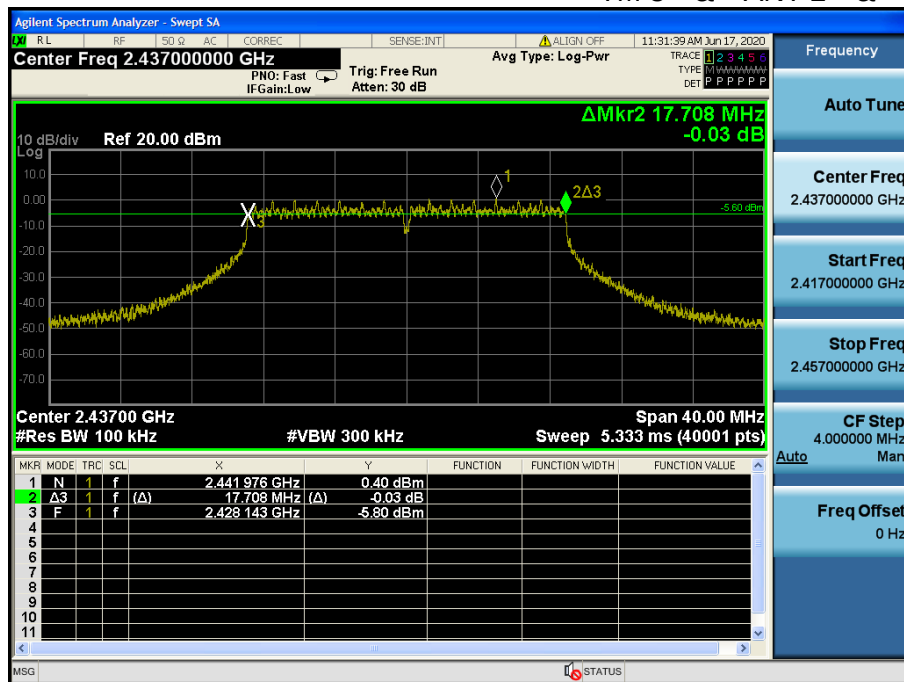
6 dB Bandwidth

TM 3 & ANT 2 & 2 412



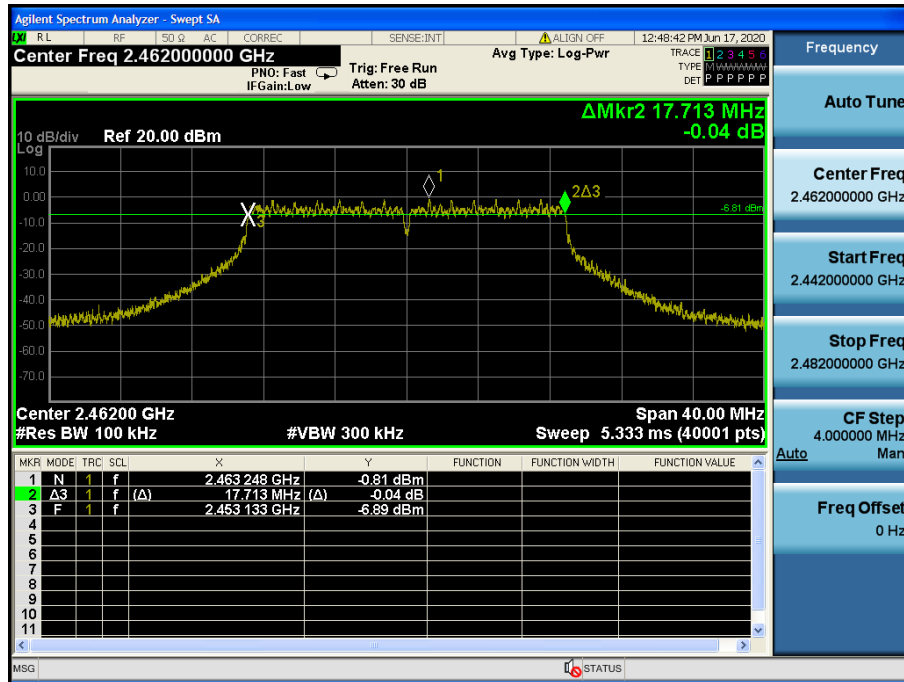
6 dB Bandwidth

TM 3 & ANT 2 & 2 437



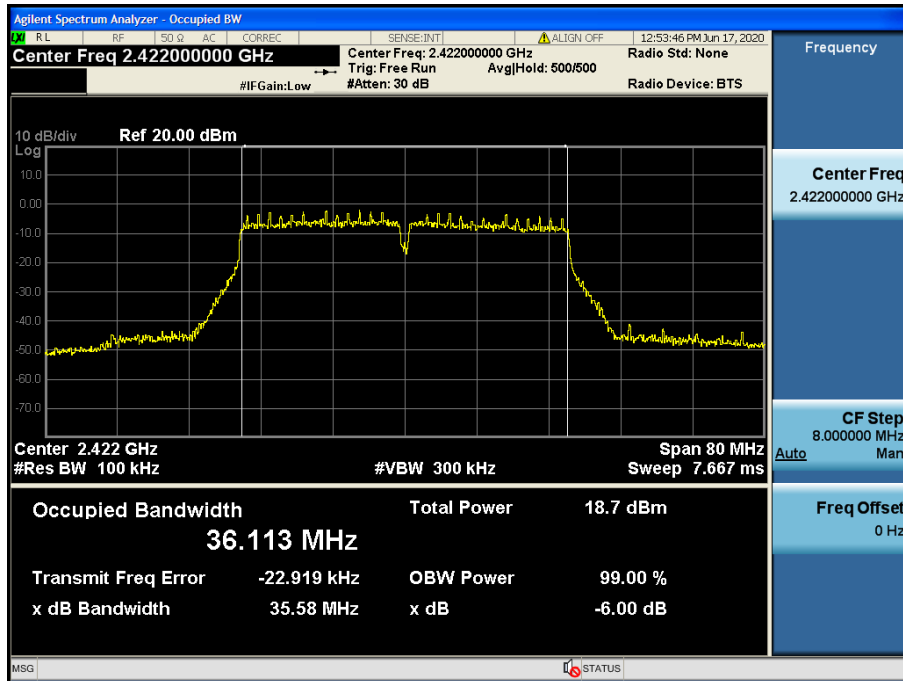
6 dB Bandwidth

TM 3 & ANT 2 & 2 462



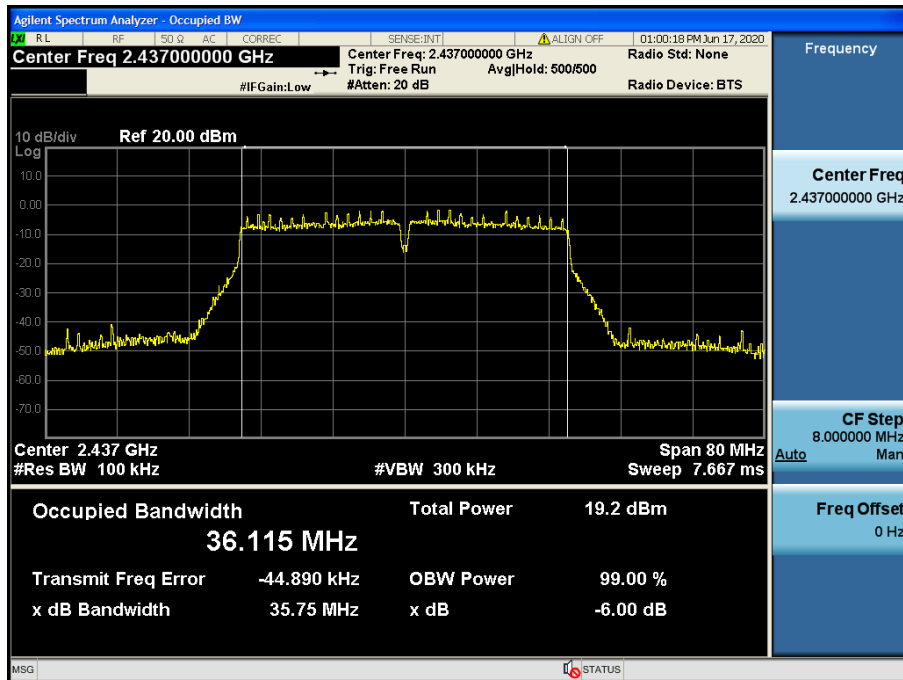
6 dB Bandwidth

TM 4 & ANT 2 & 2 422



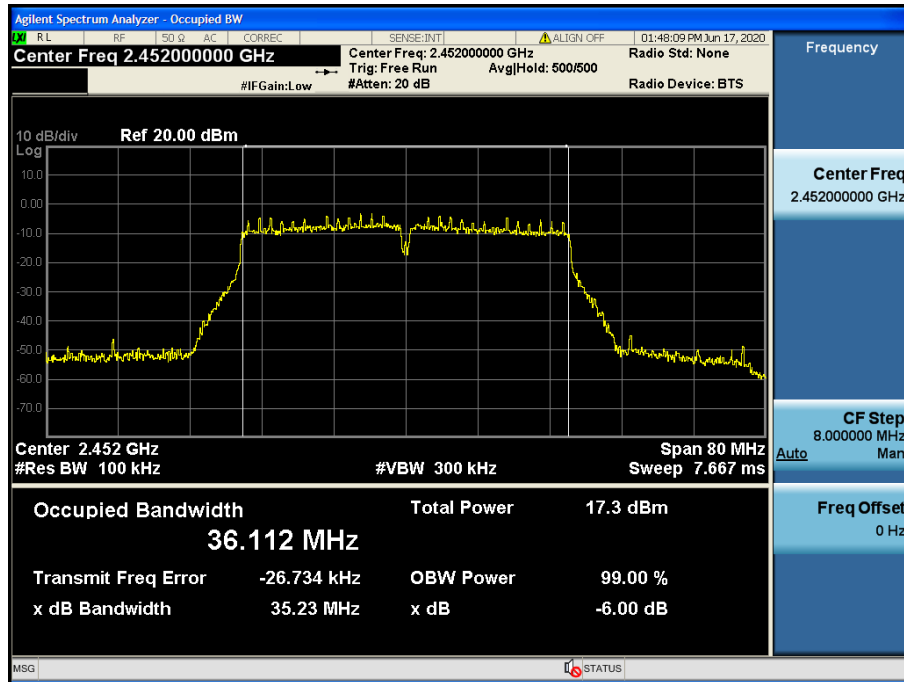
6 dB Bandwidth

TM 4 & ANT 2 & 2 437



6 dB Bandwidth

TM 4 & ANT 2 & 2 452

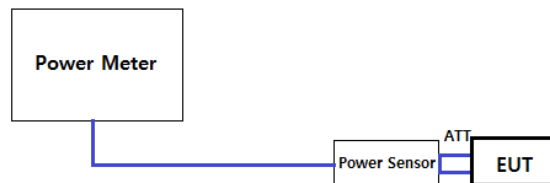


8.2 Maximum peak conducted output power

■ Test Requirements and limit, §15.247(b)

The maximum permissible conducted output power is **1 Watt**.

■ Test Configuration



■ Test Procedure

1. PKPM1 Peak power meter method of KDB558074 D01V05R02

The maximum conducted output powers were measured using a broadband peak RF power meter which has greater video bandwidth than DUT's DTS bandwidth and utilize a fast-responding diode detector.

2. Method AVGPM-G (Measurement using a gated RF average power meter) of KDB558074 D01V05R02

The average conducted output powers were measured using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.

■ Test Results: **Comply**

▪ Multiple transmitting CDD

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11b</u>							
			Data Rate [Mbps]							
			1	2	5.5	11	-	-	-	-
ANT 1	2 412	PK	18.19	18.15	18.07	18.05	-	-	-	-
		AV	15.43	15.35	15.31	15.33	-	-	-	-
	2 437	PK	18.18	18.17	18.11	18.06	-	-	-	-
		AV	15.50	15.44	15.39	15.42	-	-	-	-
	2 462	PK	18.23	18.18	18.05	18.01	-	-	-	-
		AV	15.51	15.46	15.42	15.43	-	-	-	-
ANT 2	2 412	PK	17.98	17.86	17.88	17.92	-	-	-	-
		AV	15.21	15.17	15.19	15.20	-	-	-	-
	2 437	PK	18.62	18.55	18.56	18.59	-	-	-	-
		AV	15.81	15.78	15.80	15.77	-	-	-	-
	2 462	PK	18.35	18.24	18.29	15.30	-	-	-	-
		AV	15.71	15.66	15.69	15.70	-	-	-	-
Sum (ANT 1+2)	2 412	PK	21.10	21.02	20.99	21.00	-	-	-	-
	2 437	PK	21.42	21.37	21.35	21.34	-	-	-	-
	2 462	PK	21.30	21.22	21.18	19.87	-	-	-	-

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11g</u>							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
ANT 1	2 412	PK	15.27	15.07	15.00	17.27	17.50	19.15	19.19	19.44
		AV	10.76	10.92	10.90	11.29	11.48	10.98	11.03	11.05
	2 437	PK	15.43	15.22	15.12	17.42	17.32	19.34	19.37	19.63
		AV	10.95	11.09	10.99	11.47	11.68	11.05	11.05	11.06
	2 462	PK	15.74	15.56	15.46	17.59	17.82	19.34	19.39	19.53
		AV	11.34	11.51	11.45	11.78	11.91	11.29	11.33	11.34
ANT 2	2 412	PK	15.60	15.64	15.66	17.51	17.69	19.02	19.08	19.22
		AV	10.98	10.99	11.03	11.59	11.76	11.19	11.11	11.15
	2 437	PK	15.61	15.67	15.71	17.72	17.80	19.14	19.12	19.38
		AV	11.15	11.14	11.18	11.70	11.80	11.27	11.18	11.22
	2 462	PK	15.30	15.33	15.38	17.28	17.35	19.11	19.08	19.33
		AV	10.99	11.02	11.09	11.35	11.46	11.22	11.19	11.25
Sum (ANT 1+2)	2 412	PK	18.45	18.37	18.35	20.40	20.61	22.10	22.15	22.34
	2 437	PK	18.53	18.46	18.44	20.58	20.58	22.25	22.26	22.52
	2 462	PK	18.54	18.46	18.43	20.45	20.60	22.24	22.25	22.44

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11n(HT20)</u>							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
ANT 1	2 412	PK	15.30	15.33	17.25	17.32	19.05	19.38	19.24	19.44
		AV	10.63	10.72	11.04	11.11	10.94	10.91	10.95	10.99
	2 437	PK	15.30	15.38	17.45	17.48	19.18	19.43	19.55	19.77
		AV	10.75	10.86	11.20	11.46	11.12	11.14	11.06	11.11
	2 462	PK	14.69	14.75	16.79	16.91	19.14	19.24	19.33	19.51
		AV	10.36	10.39	10.94	11.01	10.62	10.64	10.59	10.65
ANT 2	2 412	PK	15.57	15.65	17.34	17.47	19.11	19.13	19.24	19.33
		AV	10.93	11.06	11.45	11.57	11.09	11.02	11.12	11.20
	2 437	PK	15.51	15.60	17.43	17.70	19.21	19.21	19.35	19.44
		AV	11.08	11.27	11.62	11.75	11.30	11.17	11.26	11.30
	2 462	PK	14.49	14.56	16.57	16.88	18.89	19.10	19.22	19.38
		AV	10.18	10.25	10.75	10.89	10.54	10.56	10.61	10.66
Sum (ANT 1+2)	2 412	PK	18.45	18.50	20.31	20.41	22.09	22.27	22.25	22.40
	2 437	PK	18.42	18.50	20.45	20.60	22.21	22.33	22.46	22.62
	2 462	PK	17.60	17.67	19.69	19.91	22.03	22.18	22.29	22.46

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11ac(VHT20)</u>								
			Data Rate [MCS]								
			0	1	2	3	4	5	6	7	8
ANT 1	2 412	PK	15.24	15.29	17.24	17.33	19.66	19.85	19.91	19.86	20.11
		AV	10.62	10.75	11.24	11.41	11.05	11.11	11.09	11.14	11.19
	2 437	PK	15.32	15.37	17.38	17.54	19.78	19.91	19.99	19.76	20.19
		AV	10.71	10.94	11.47	11.48	11.03	11.15	11.05	11.15	11.10
	2 462	PK	14.58	14.66	17.05	17.12	19.33	19.41	19.51	19.42	19.55
		AV	10.40	10.39	11.12	11.15	10.52	10.58	10.57	10.61	10.55
ANT 2	2 412	PK	15.56	15.65	17.56	17.62	19.12	19.71	19.65	19.55	19.76
		AV	10.77	11.10	11.51	11.52	11.28	11.04	11.28	11.24	11.30
	2 437	PK	15.62	15.77	17.65	17.73	19.32	19.85	19.89	19.75	20.11
		AV	10.85	11.15	11.61	11.63	11.31	11.11	11.34	11.28	11.29
	2 462	PK	14.31	14.36	16.88	16.95	18.57	19.17	19.22	19.20	19.54
		AV	10.23	10.46	10.89	10.92	10.67	10.52	10.68	10.91	10.92
Sum (ANT 1+2)	2 412	PK	18.41	18.48	20.41	20.49	22.41	22.79	22.79	22.72	22.95
	2 437	PK	18.48	18.58	20.53	20.65	22.57	22.89	22.95	22.77	23.16
	2 462	PK	17.46	17.52	19.98	20.05	21.98	22.30	22.38	22.32	22.56

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11n(HT40)</u>							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
ANT 1	2 412	PK	15.68	15.61	16.89	16.54	18.97	19.28	19.33	19.57
		AV	10.23	10.25	10.29	10.24	11.33	11.28	11.29	11.25
	2 437	PK	16.71	16.71	17.47	17.35	19.81	20.37	20.12	20.43
		AV	11.13	11.15	11.21	11.18	11.27	11.20	11.24	11.20
	2 462	PK	14.89	14.92	15.56	15.61	18.24	18.29	18.45	18.87
		AV	9.71	9.75	9.81	9.80	9.86	9.82	9.84	9.88
ANT 2	2 412	PK	16.30	16.39	17.21	17.12	18.89	19.44	19.56	19.72
		AV	10.57	10.55	10.62	10.66	10.72	10.69	10.71	10.72
	2 437	PK	16.77	16.81	17.55	17.31	19.77	20.22	20.10	20.38
		AV	11.22	11.19	11.24	11.19	11.29	11.21	11.22	11.25
	2 462	PK	14.71	14.85	15.41	15.39	18.25	18.14	18.25	18.56
		AV	9.69	9.66	9.92	9.85	9.89	9.92	9.87	9.89
Sum (ANT 1+2)	2 412	PK	19.01	19.03	20.06	19.85	21.94	22.37	22.46	22.66
	2 437	PK	19.75	19.77	20.52	20.34	22.80	23.31	23.12	23.42
	2 462	PK	17.81	17.90	18.50	18.51	21.26	21.23	21.36	21.73

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11ac(VHT40)</u>									
			Data Rate [MCS]									
			0	1	2	3	4	5	6	7	8	9
ANT 1	2 412	PK	16.14	16.25	16.77	16.58	18.41	18.33	18.24	18.33	18.64	18.65
		AV	10.34	10.45	10.38	10.41	10.48	10.52	10.59	10.58	10.62	10.35
	2 437	PK	17.15	17.01	17.72	17.50	19.51	19.41	19.30	19.34	19.75	19.78
		AV	11.03	11.16	11.10	11.14	11.23	11.21	11.31	11.09	11.26	11.28
	2 462	PK	15.16	15.24	15.87	15.71	17.42	17.38	17.20	17.29	17.68	17.71
		AV	9.51	9.55	9.51	9.60	9.67	9.65	9.69	9.57	9.62	9.63
ANT 2	2 412	PK	16.21	16.22	16.58	16.44	18.32	18.29	18.45	18.49	18.66	18.71
		AV	10.27	10.38	10.33	10.42	10.44	10.46	10.52	10.55	10.59	10.63
	2 437	PK	17.15	16.88	17.33	17.44	19.41	19.30	19.40	19.25	19.31	19.32
		AV	11.22	11.08	11.23	11.19	11.20	11.22	11.29	11.13	11.18	11.21
	2 462	PK	15.25	15.19	15.74	15.77	17.24	17.33	17.41	17.25	17.59	17.63
		AV	9.49	9.48	9.52	9.58	9.66	9.69	9.63	9.65	9.66	9.70
Sum (ANT 1+2)	2 412	PK	19.19	19.25	19.69	19.52	21.38	21.32	21.36	21.42	21.66	21.69
	2 437	PK	20.16	19.96	20.54	20.48	22.47	22.37	22.36	22.31	22.55	22.57
	2 462	PK	18.22	18.23	18.82	18.75	20.34	20.37	20.32	20.28	20.65	20.68

▪ Multiple transmitting SDM

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11n(HT20)</u>							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
ANT 1	2 412	PK	15.25	15.28	17.25	17.38	19.41	19.45	19.56	19.62
		AV	10.88	10.91	11.29	11.58	11.02	11.05	11.15	11.01
	2 437	PK	15.39	15.49	17.40	17.52	19.59	19.64	19.62	19.71
		AV	10.95	10.99	11.35	11.60	11.07	11.08	11.13	11.04
	2 462	PK	14.86	14.81	16.69	16.85	19.11	19.25	19.38	19.44
		AV	10.41	10.45	10.86	11.02	10.68	10.60	10.62	10.69
ANT 2	2 412	PK	15.36	15.44	17.29	17.40	18.89	19.11	19.17	19.24
		AV	10.88	11.02	11.37	11.52	11.14	11.17	11.15	11.25
	2 437	PK	15.66	15.42	17.24	17.72	19.57	19.61	19.66	19.72
		AV	11.21	11.23	11.28	11.83	11.34	11.24	11.19	11.11
	2 462	PK	14.27	14.33	16.42	16.79	18.66	18.87	19.06	19.22
		AV	10.11	10.19	10.81	10.76	10.49	10.44	10.58	10.67
Sum (ANT 1+2)	2 412	PK	18.32	18.37	20.28	20.40	22.17	22.29	22.38	22.44
	2 437	PK	18.54	18.47	20.33	20.63	22.59	22.64	22.65	22.73
	2 462	PK	17.59	17.59	19.57	19.83	21.90	22.07	22.23	22.34

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11ac(VHT20)</u>								
			Data Rate [MCS]								
			0	1	2	3	4	5	6	7	8
ANT 1	2 412	PK	15.11	15.20	17.12	17.22	19.54	19.62	19.88	19.72	20.03
		AV	10.57	10.66	11.12	11.33	10.99	11.04	11.08	11.16	11.20
	2 437	PK	15.45	15.29	17.44	17.32	19.32	19.74	19.43	19.15	20.11
		AV	10.83	11.06	11.52	11.59	11.07	11.06	11.02	10.92	11.06
	2 462	PK	14.44	14.51	16.93	17.16	19.45	19.39	19.60	19.57	19.62
		AV	10.38	10.34	10.88	10.91	10.46	10.55	10.57	10.54	10.58
ANT 2	2 412	PK	15.42	15.59	17.61	17.38	18.88	19.66	19.46	19.42	19.69
		AV	10.69	10.93	11.46	11.44	11.24	11.11	11.20	11.21	11.27
	2 437	PK	15.69	15.46	17.84	17.59	19.57	19.66	19.58	19.54	19.39
		AV	11.05	11.12	11.61	11.70	11.25	11.29	11.37	11.18	11.16
	2 462	PK	14.25	14.44	16.72	16.85	18.67	19.11	19.15	19.04	19.47
		AV	10.25	10.38	10.91	10.94	10.87	10.72	10.88	10.85	10.96
Sum (ANT 1+2)	2 412	PK	18.28	18.41	20.38	20.31	22.23	22.65	22.69	22.58	22.87
	2 437	PK	18.58	18.39	20.65	20.47	22.46	22.71	22.52	22.36	22.78
	2 462	PK	17.36	17.49	19.84	20.02	22.09	22.26	22.39	22.32	22.56

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11n(HT40)</u>							
			Data Rate [MCS]							
			0	1	2	3	4	5	6	7
ANT 1	2 412	PK	15.49	15.33	16.71	16.55	18.85	19.26	19.45	19.67
		AV	10.11	10.23	10.18	10.24	10.28	10.22	10.24	10.23
	2 437	PK	16.61	16.55	17.39	17.24	19.70	20.27	20.22	20.34
		AV	11.09	11.17	11.15	11.19	11.25	11.26	11.28	11.29
	2 462	PK	15.14	15.24	15.84	15.74	18.25	18.11	18.34	18.69
		AV	9.76	9.81	9.77	9.74	9.78	9.81	9.82	9.85
ANT 2	2 412	PK	16.12	16.28	17.15	17.11	18.79	19.25	19.35	19.58
		AV	10.51	10.53	10.59	10.61	10.65	10.68	10.74	10.75
	2 437	PK	16.24	16.66	17.24	17.15	19.56	20.15	20.11	20.34
		AV	11.12	11.23	11.18	11.22	11.25	11.24	11.18	11.24
	2 462	PK	14.76	14.70	15.26	15.29	18.26	18.28	18.16	18.39
		AV	9.66	9.67	9.86	9.81	9.86	9.91	9.88	9.92
Sum (ANT 1+2)	2 412	PK	18.83	18.84	19.95	19.85	21.83	22.27	22.41	22.64
	2 437	PK	19.44	19.62	20.33	20.21	22.64	23.22	23.18	23.35
	2 462	PK	17.96	17.99	18.57	18.53	21.27	21.21	21.26	21.55

ANT	Freq. (MHz)	Det.	Maximum Peak Conducted Output Power (dBm) for <u>802.11ac(VHT40)</u>									
			Data Rate [MCS]									
			0	1	2	3	4	5	6	7	8	9
ANT 1	2 412	PK	15.98	16.12	16.58	16.62	18.35	18.29	18.33	18.25	18.59	18.63
		AV	10.28	10.39	10.38	10.35	10.44	10.48	10.52	10.57	10.60	10.62
	2 437	PK	17.19	17.11	17.60	17.59	19.62	19.55	19.42	19.44	19.69	19.73
		AV	11.12	11.19	11.08	11.15	11.20	11.23	11.29	11.25	11.30	11.32
	2 462	PK	15.24	15.22	15.76	15.78	17.33	17.29	17.41	17.44	17.69	17.75
		AV	9.53	9.56	9.52	9.57	9.62	9.66	9.68	9.61	9.66	9.71
ANT 2	2 412	PK	16.12	16.28	16.42	16.48	18.44	18.40	18.31	18.33	18.51	18.62
		AV	10.33	10.35	10.28	10.44	10.41	10.48	10.56	10.52	10.57	10.59
	2 437	PK	17.52	17.35	17.44	17.51	19.88	19.65	19.48	19.51	19.53	19.55
		AV	11.04	11.15	11.19	11.15	11.18	11.22	11.28	11.10	11.24	11.27
	2 462	PK	15.11	15.12	15.63	15.51	17.12	17.22	17.28	17.20	17.44	17.51
		AV	9.44	9.47	9.51	9.56	9.59	9.61	9.66	9.62	9.67	9.69
Sum (ANT 1+2)	2 412	PK	19.06	19.21	19.51	19.56	21.41	21.36	21.33	21.30	21.56	21.64
	2 437	PK	20.37	20.24	20.53	20.56	22.76	22.61	22.46	22.49	22.62	22.65
	2 462	PK	18.19	18.18	18.71	18.66	20.24	20.27	20.36	20.33	20.58	20.64

8.3 Maximum power spectral density

■ Test requirements and limit, §15.247(e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r02 - Section 8.4
- ANSI C63.10-2013 – Section 11.10.2

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to **1.5 times** the DTS bandwidth.
3. Set the RBW to : **3 kHz $\leq$ RBW $\leq$ 100 kHz**
4. Set the VBW **$\geq$ 3 x RBW**
5. Detector = **Peak**
6. Sweep time = **Auto couple**
7. Trace mode = **Max hold.**
8. Allow trace to fully stabilize.
9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

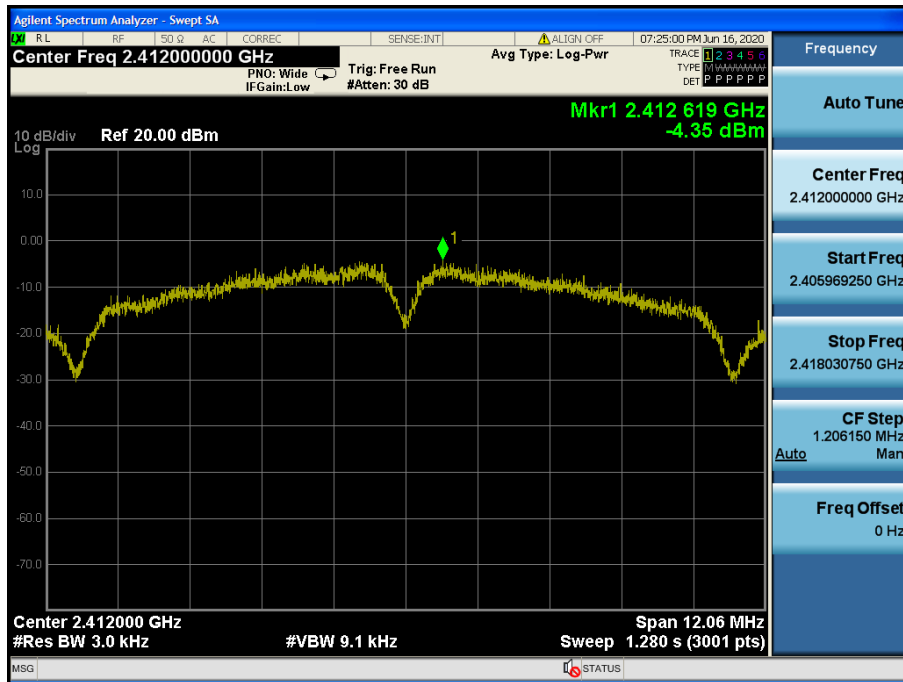
■ Test Results: **Comply**

Test Mode	Frequency	RBW	PKPSD [dBm]			Limit [dBm]
			ANT 1	ANT 2	SUM (ANT 1 + ANT 2)	
TM 1	2 412	3 kHz	-4.35	-6.57	-2.31	8.00
	2 437	3 kHz	-3.72	-4.84	-1.23	8.00
	2 462	3 kHz	-2.72	-5.36	-0.83	8.00
TM 2	2 412	3 kHz	-12.01	-13.12	-9.52	8.00
	2 437	3 kHz	-11.10	-13.00	-8.94	8.00
	2 462	3 kHz	-11.37	-13.82	-9.41	8.00
TM 3	2 412	3 kHz	-11.30	-13.72	-9.33	8.00
	2 437	3 kHz	-11.30	-13.39	-9.21	8.00
	2 462	3 kHz	-11.63	-13.95	-9.63	8.00
TM 4	2 412	3 kHz	-18.14	-16.57	-14.27	8.00
	2 437	3 kHz	-16.31	-15.92	-13.10	8.00
	2 462	3 kHz	-18.12	-17.85	-14.97	8.00

RESULT PLOTS

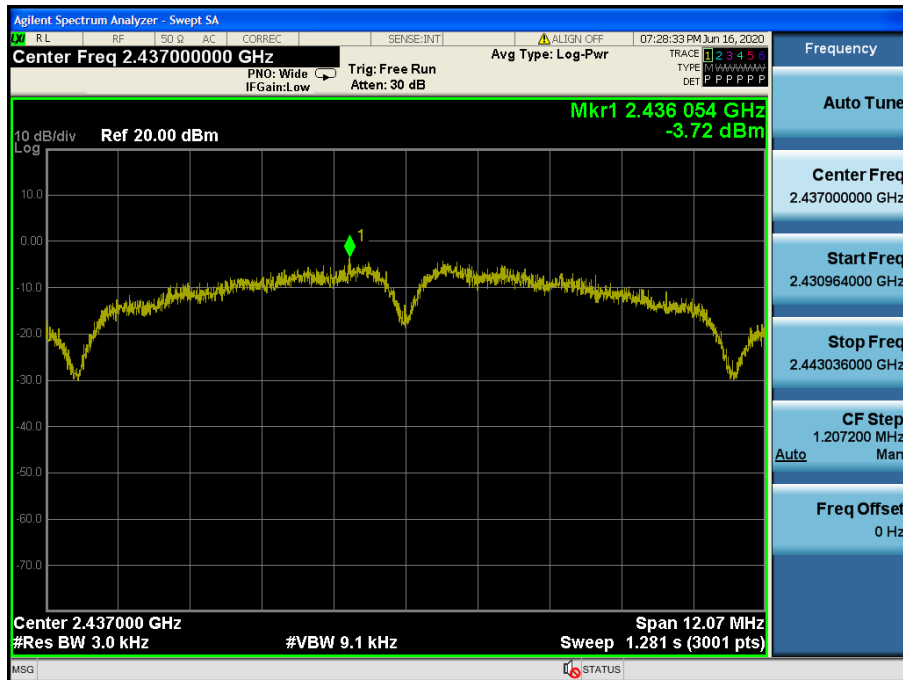
Maximum PPSD

TM 1 & ANT 1 & 2 412



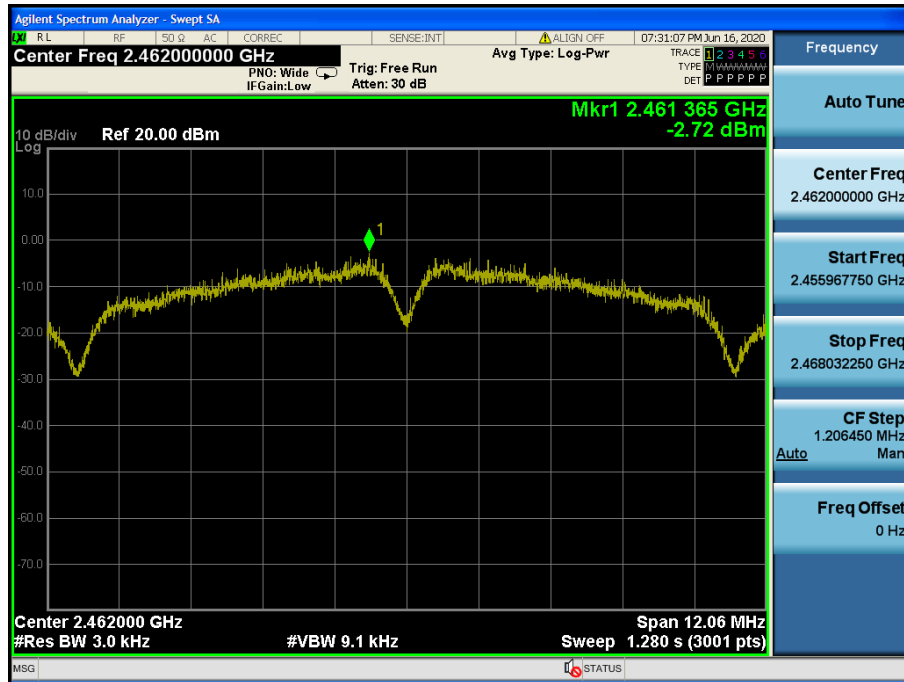
Maximum PPSD

TM 1 & ANT 1 & 2 437



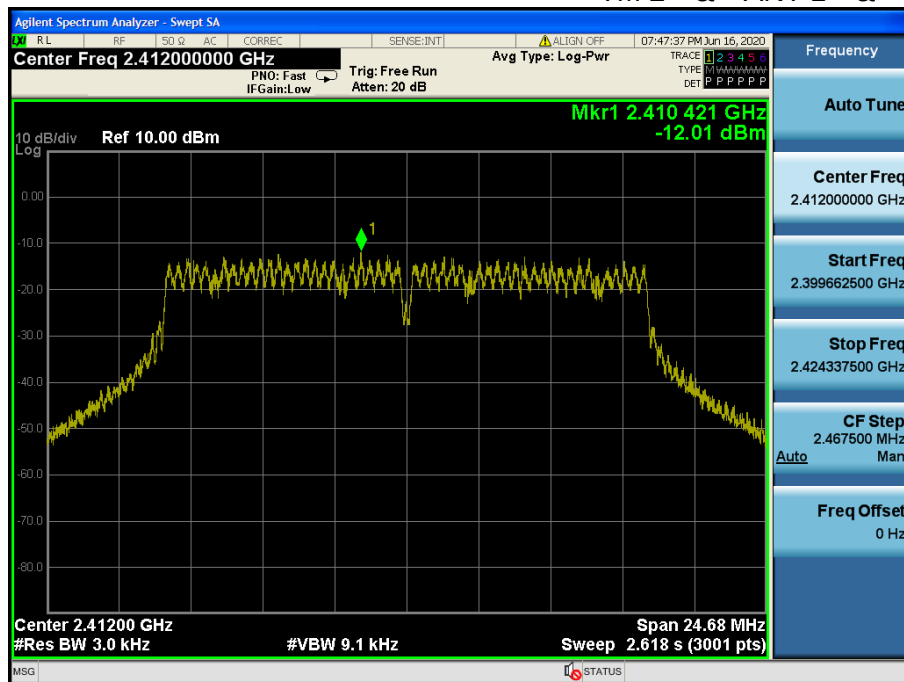
Maximum PPSP

TM 1 & ANT 1 & 2 462



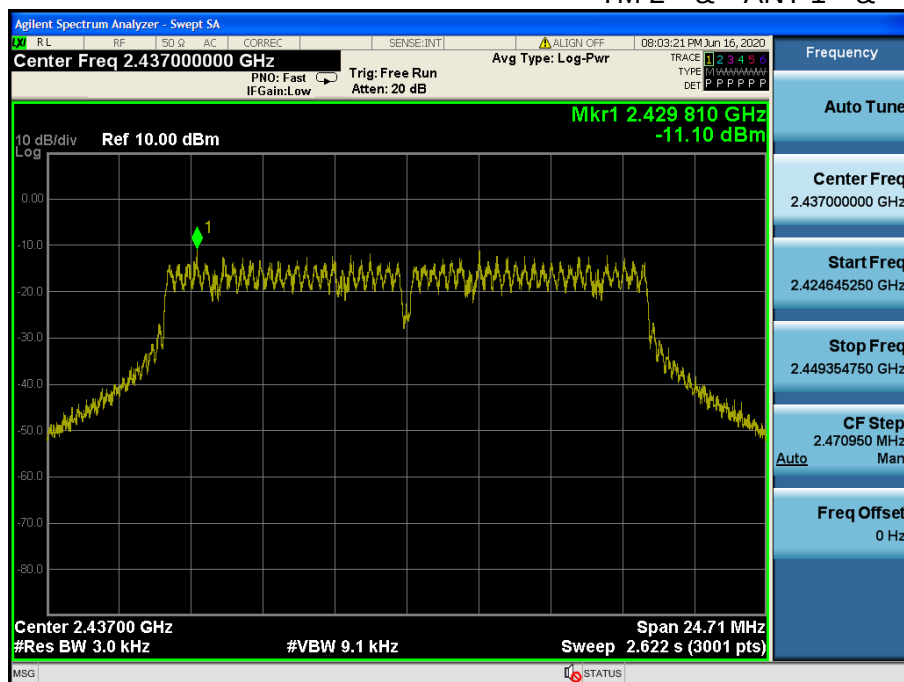
Maximum PPSD

TM 2 & ANT 1 & 2 412



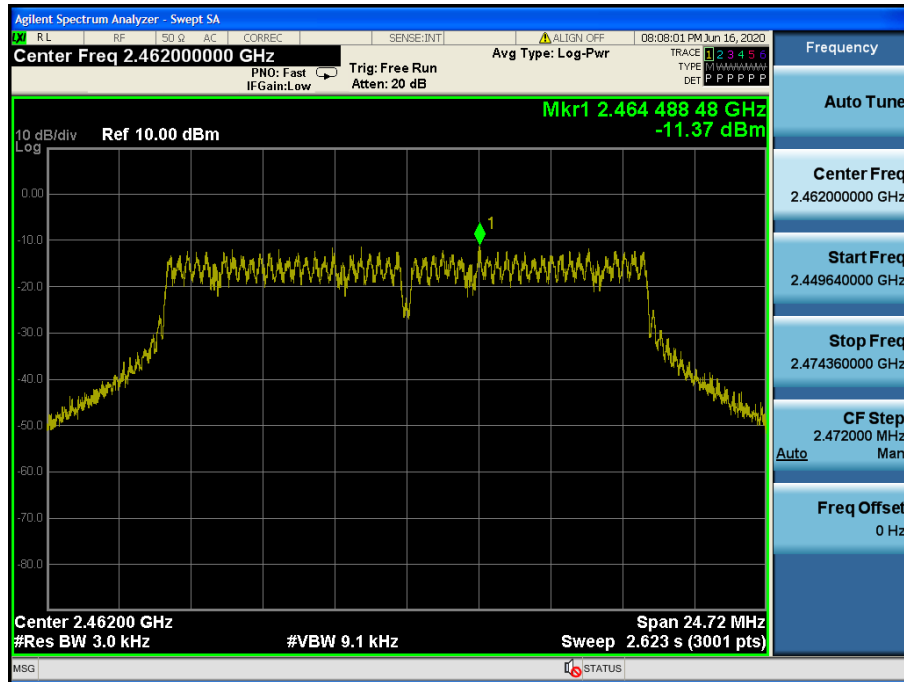
Maximum PPSD

TM 2 & ANT 1 & 2 437



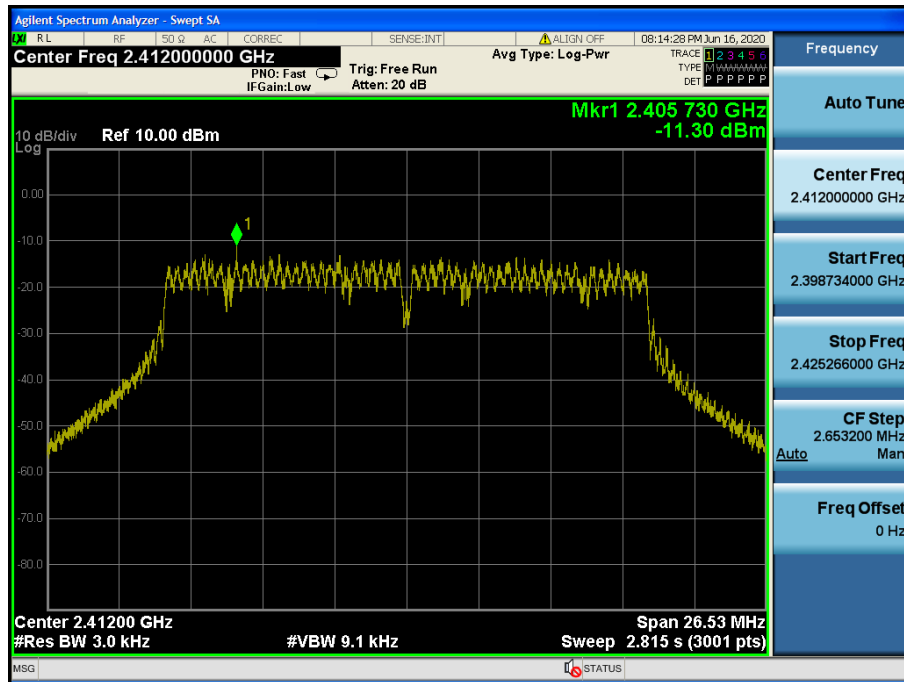
Maximum PPSD

TM 2 & ANT 1 & 2 462



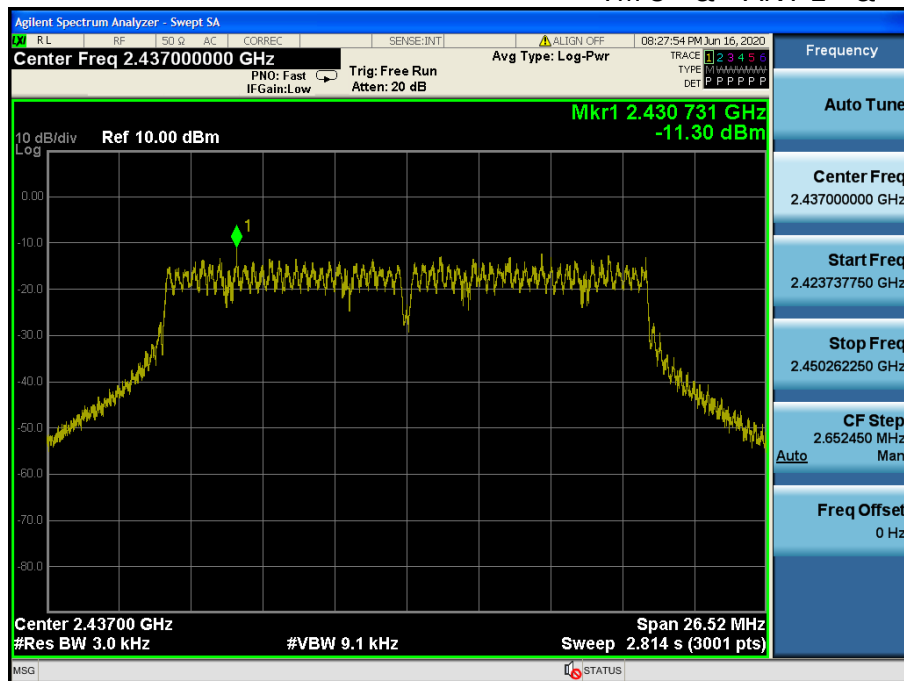
Maximum PPSD

TM 3 & ANT 1 & 2 412



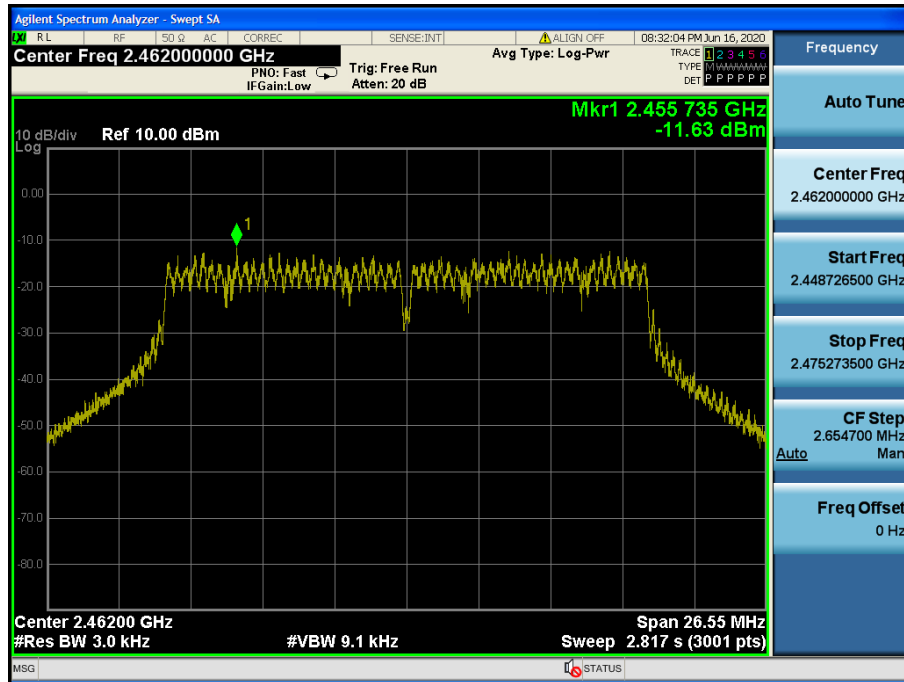
Maximum PPSD

TM 3 & ANT 1 & 2 437



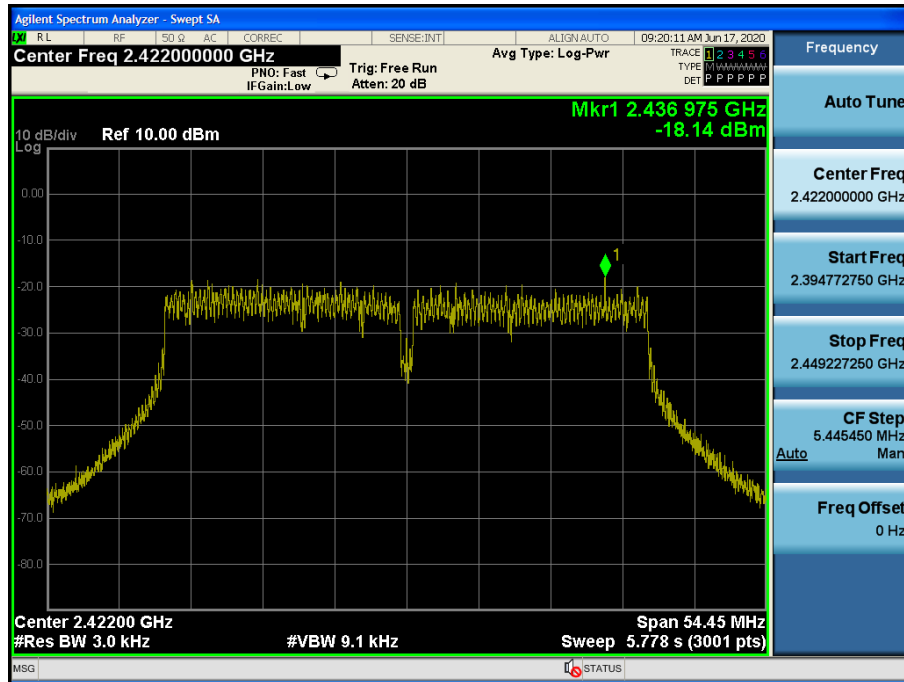
Maximum PPSD

TM 3 & ANT 1 & 2 462



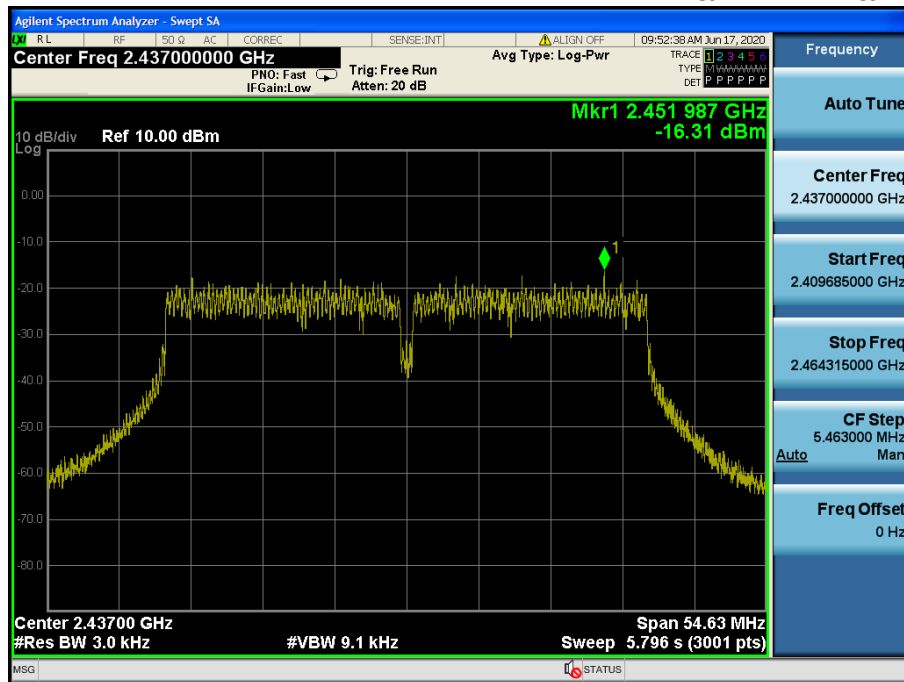
Maximum PPSP

TM 4 & ANT 1 & 2 412



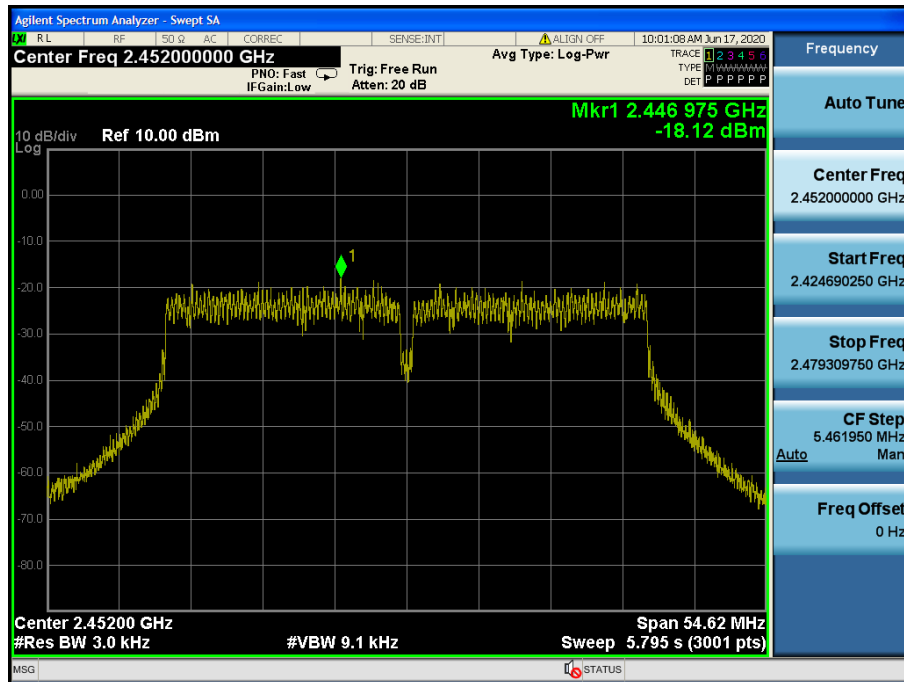
Maximum PPSP

TM 4 & ANT 1 & 2 437



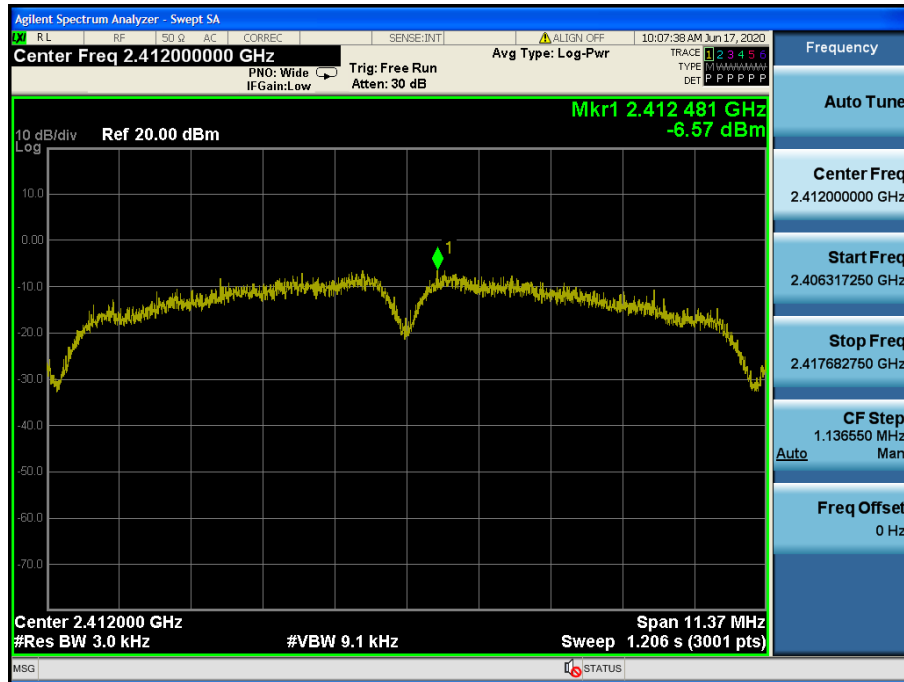
Maximum PPSD

TM 4 & ANT 1 & 2 462



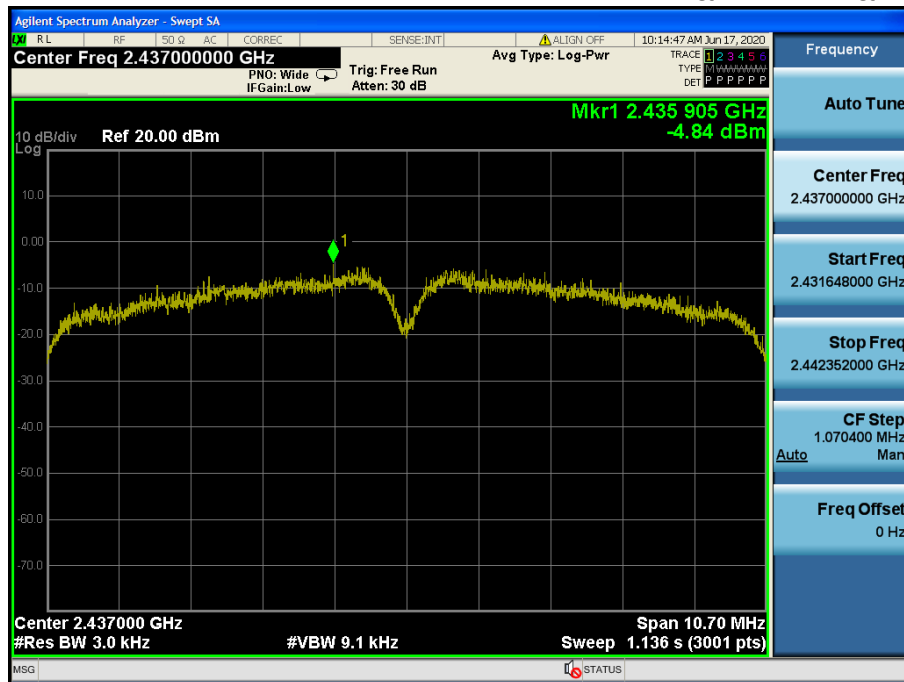
Maximum PPSD

TM 1 & ANT 2 & 2 412



Maximum PPSD

TM 1 & ANT 2 & 2 437



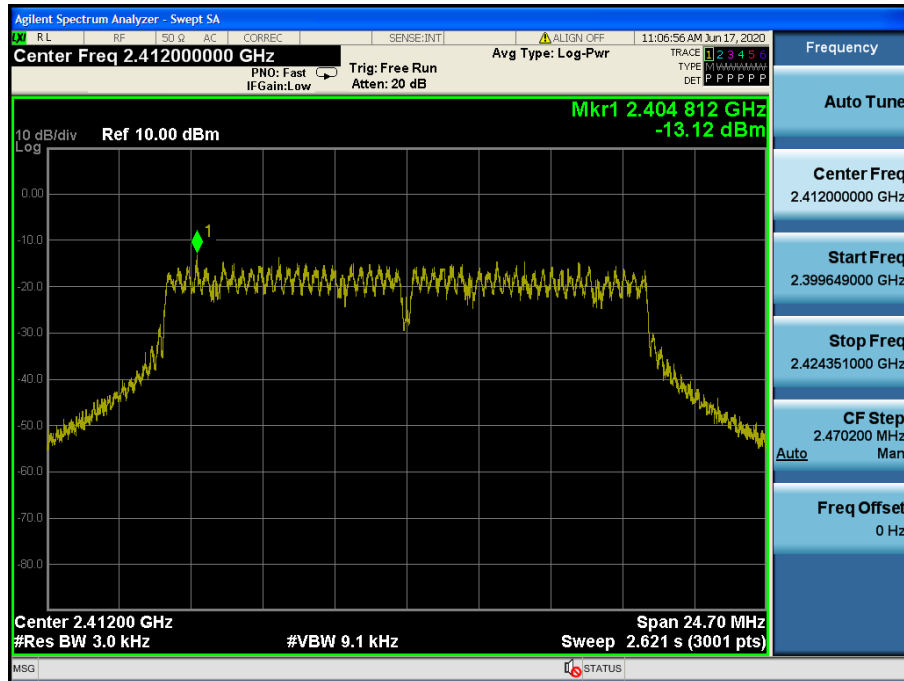
Maximum PPSD

TM 1 & ANT 2 & 2 462



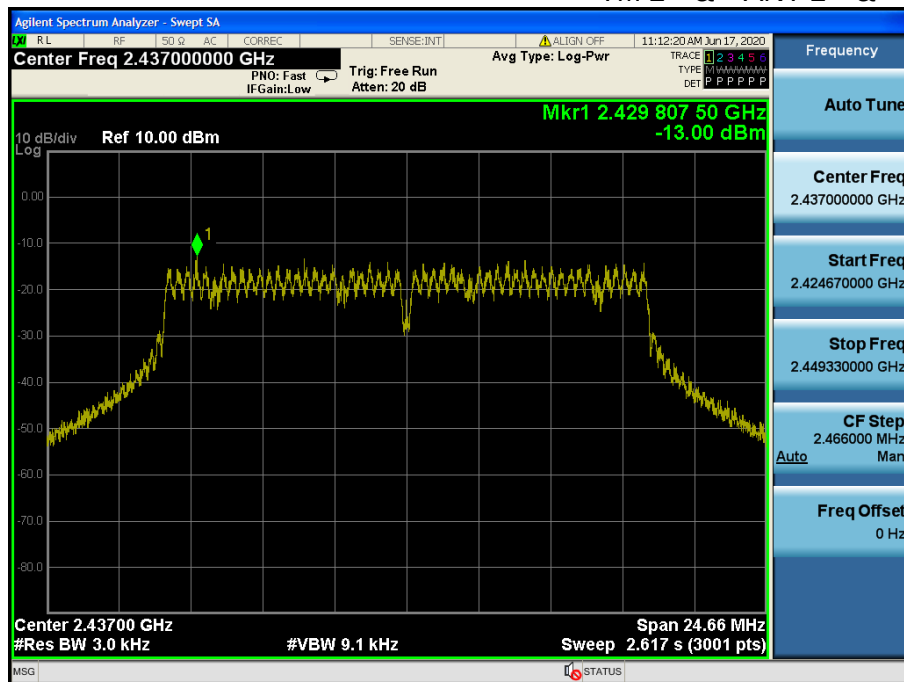
Maximum PPSD

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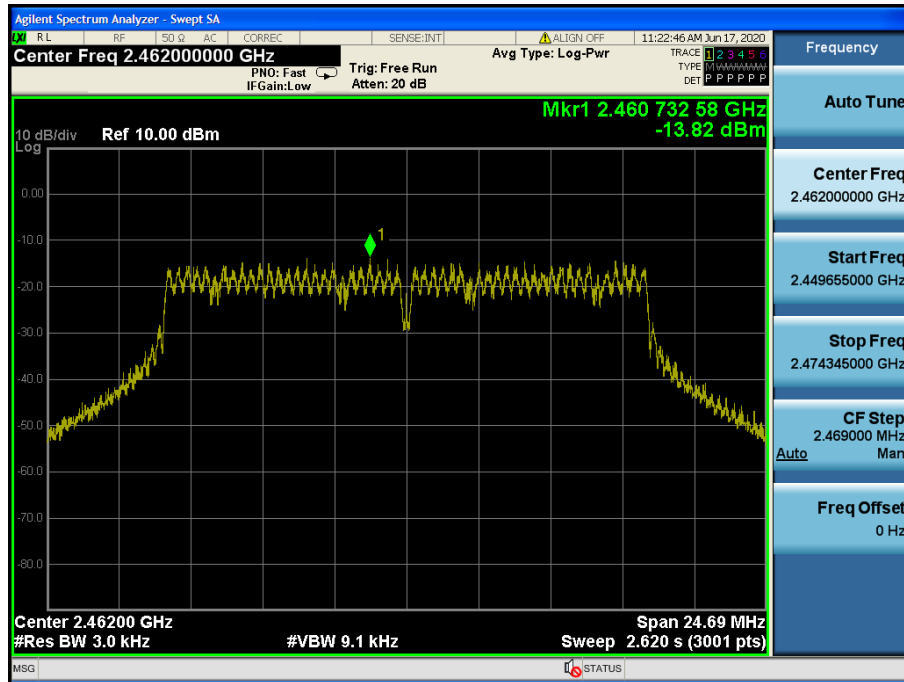
Maximum PPSD

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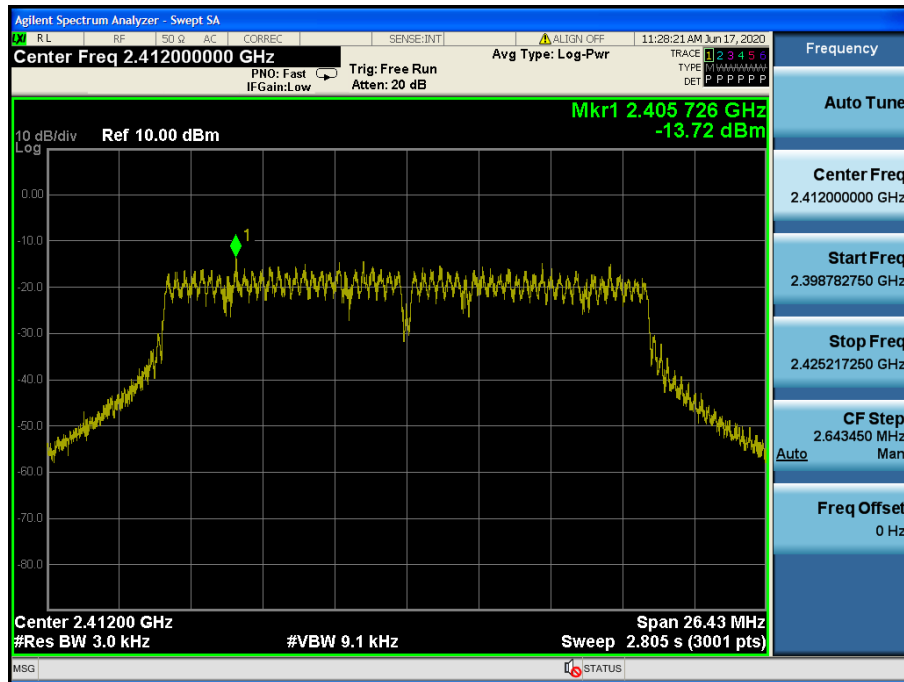
Maximum PPSD

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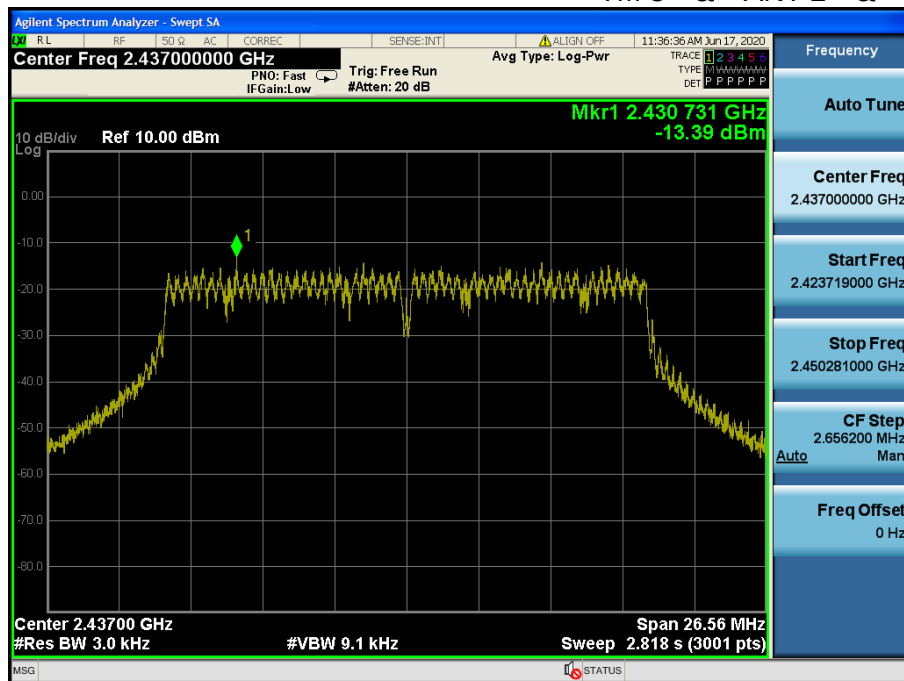
Maximum PPSD

TM 3 & ANT 2 & 2 412



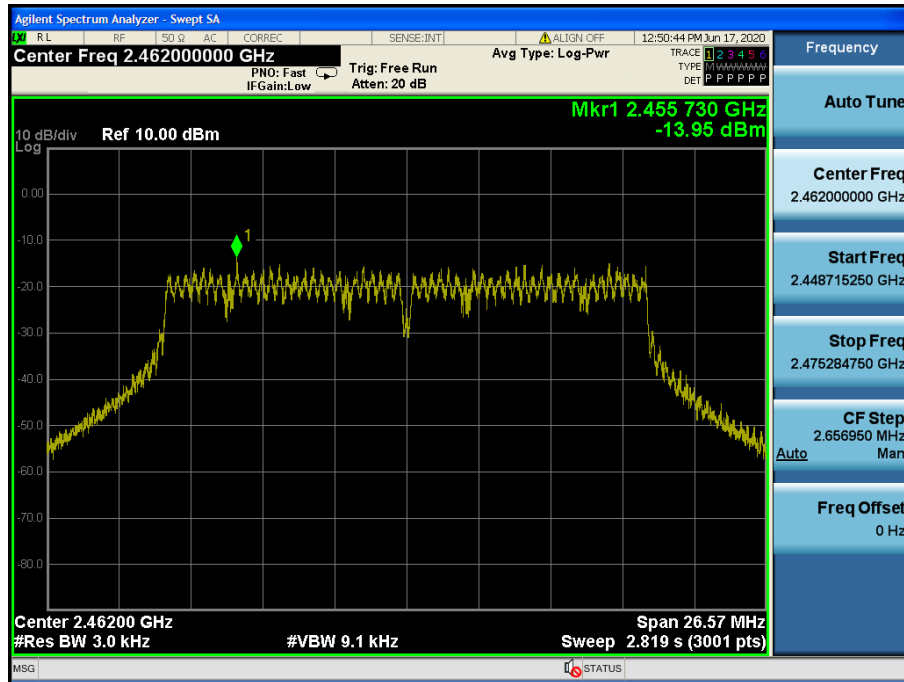
Maximum PPSD

TM 3 & ANT 2 & 2 437



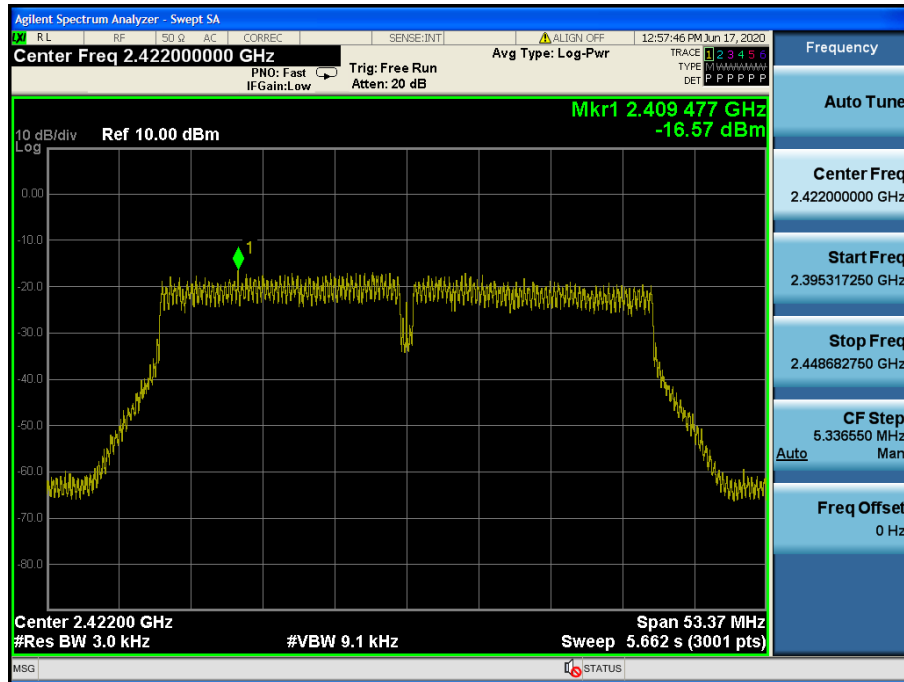
Maximum PPSD

TM 3 & ANT 2 & 2 462



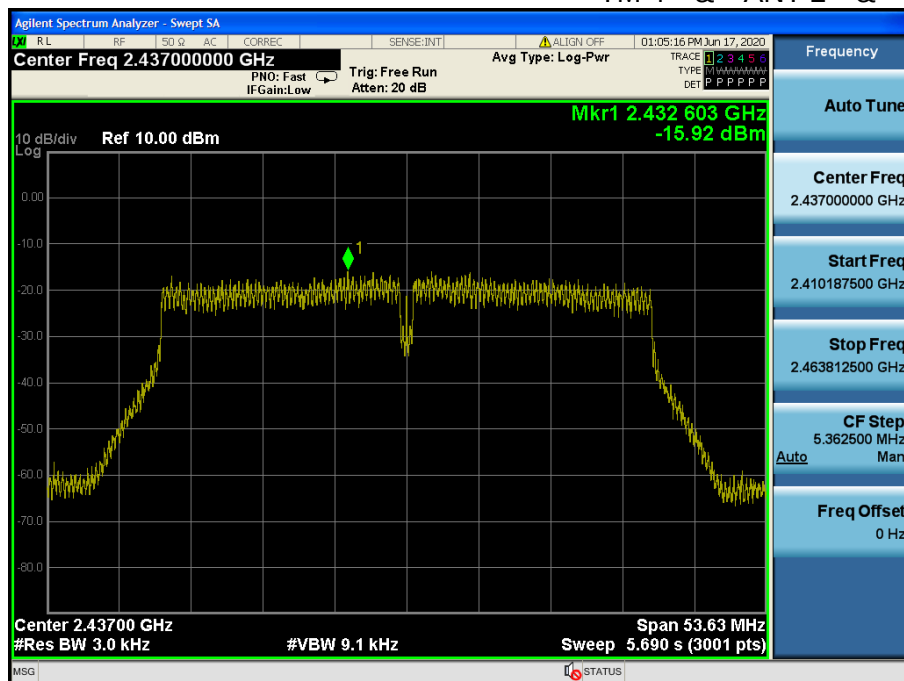
Maximum PPSD

TM 4 & ANT 2 & 2422



Maximum PPSD

TM 4 & ANT 2 & 2 437



8.4 Out of band emissions at the band edge / conducted spurious emissions

■ Test requirements and limit, §15.247(d)

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the **peak output power procedure** is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated **by at least 20 dB** relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in band average PSD level.

In either case, attenuation to levels below the general emission limits specified in **§15.209(a)** is not required.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r02 - Section 8.5
- ANSI C63.10-2013 – Section 11.11

Reference level measurement

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = **100 kHz**.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = **Peak**.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow trace to fully stabilize**.
9. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = **100 kHz. (Actual 1 MHz, See below note)**
3. Set the VBW $\geq 3 \times$ RBW. **(Actual 3 MHz, See below note)**
4. Detector = **Peak**.
5. Ensure that the number of measurement points $\geq$ Span / RBW.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow the trace to stabilize.** (this may take some time, depending on the extent of the span)
9. Use the peak marker function to determine the maximum amplitude level.

Note: The conducted spurious emission was tested with below settings.

Frequency range: 9 kHz ~ 30 MHz

RBW = 100 kHz, VBW = 300 kHz, Sweep time = Auto, Detector = Peak, Trace = Max hold, Sweep points: 40 001

Frequency range: 30 MHz ~ 10 GHz, 10 GHz ~ 25 GHz

RBW = 1 MHz, VBW = 3 MHz, Sweep time = Auto, Detector = Peak, Trace = Max hold, Sweep points: 40 001

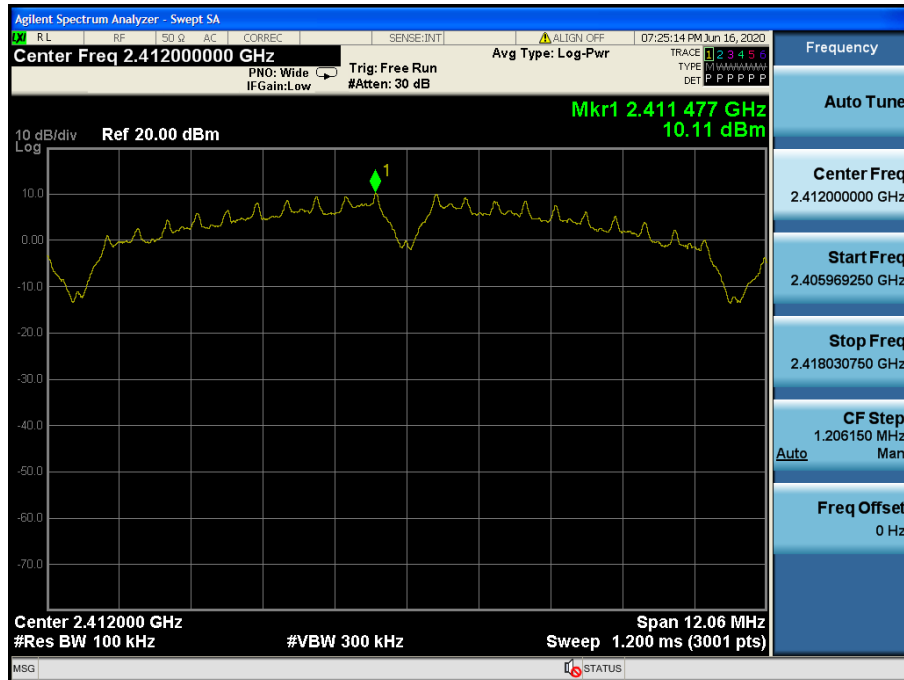
LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

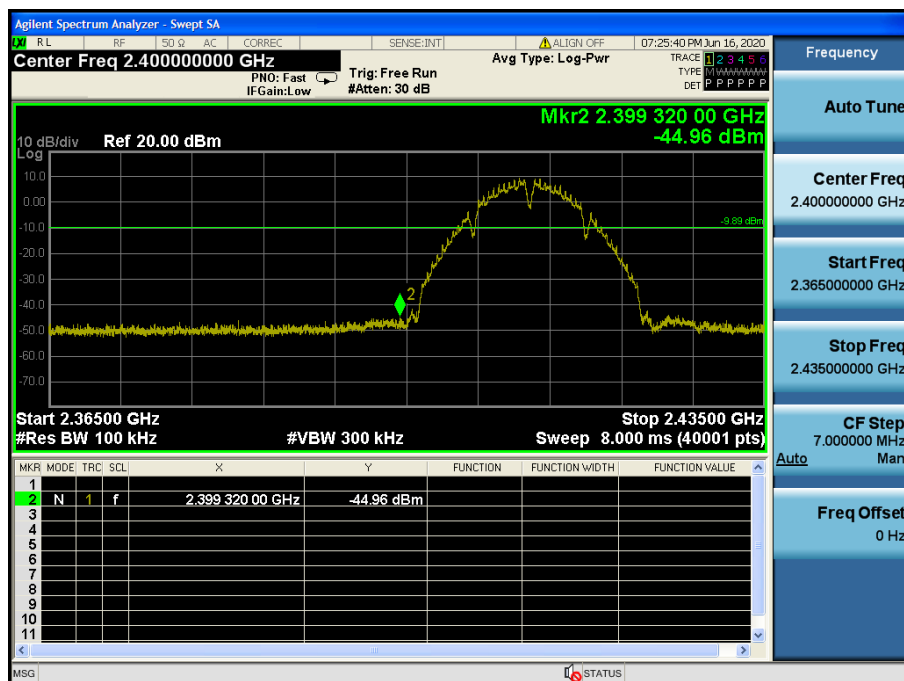
RESULT PLOTS

TM 1 & ANT 1 & 2 412

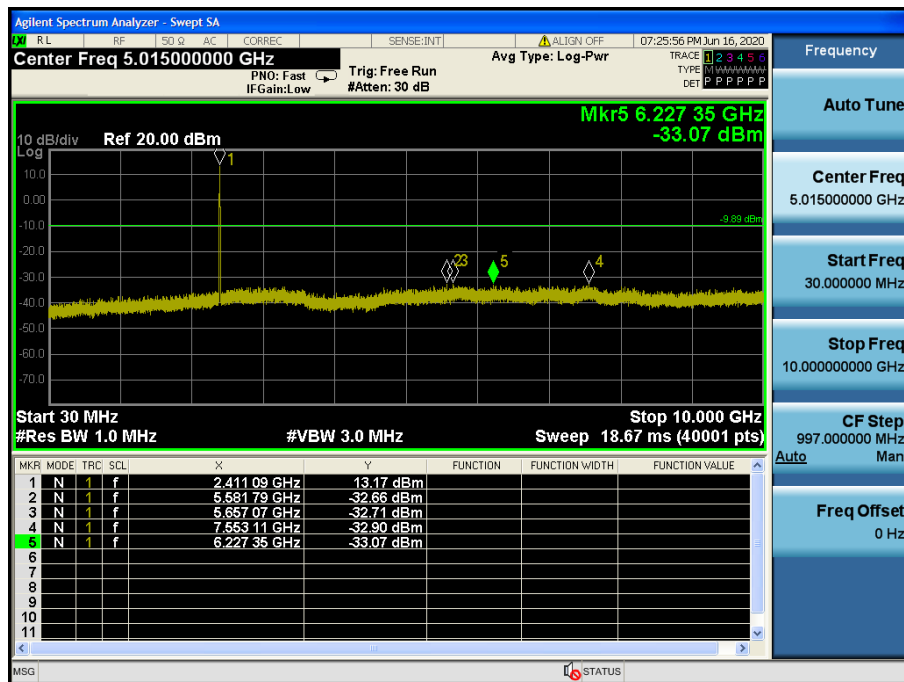
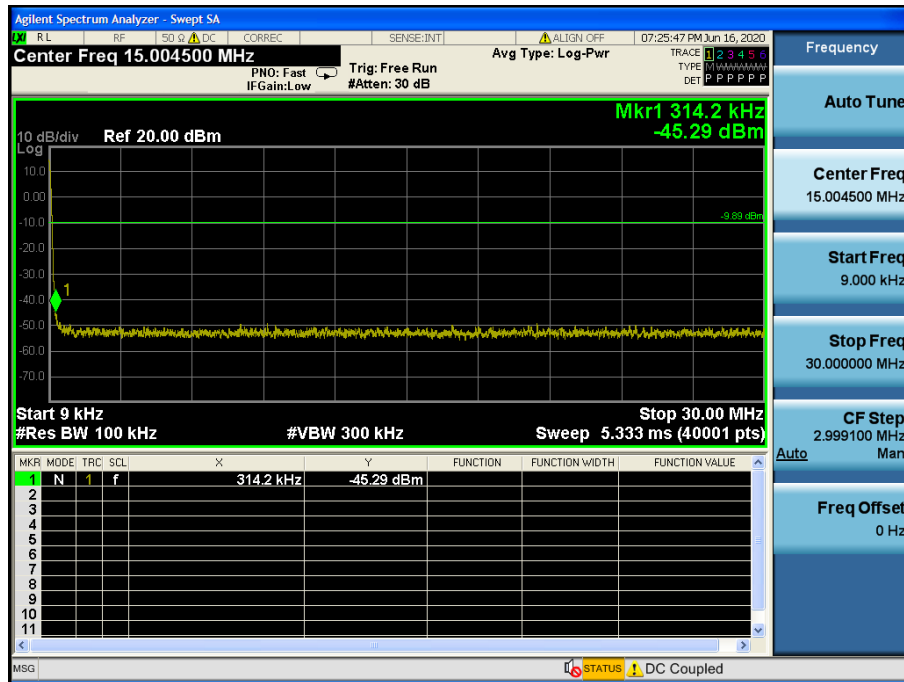
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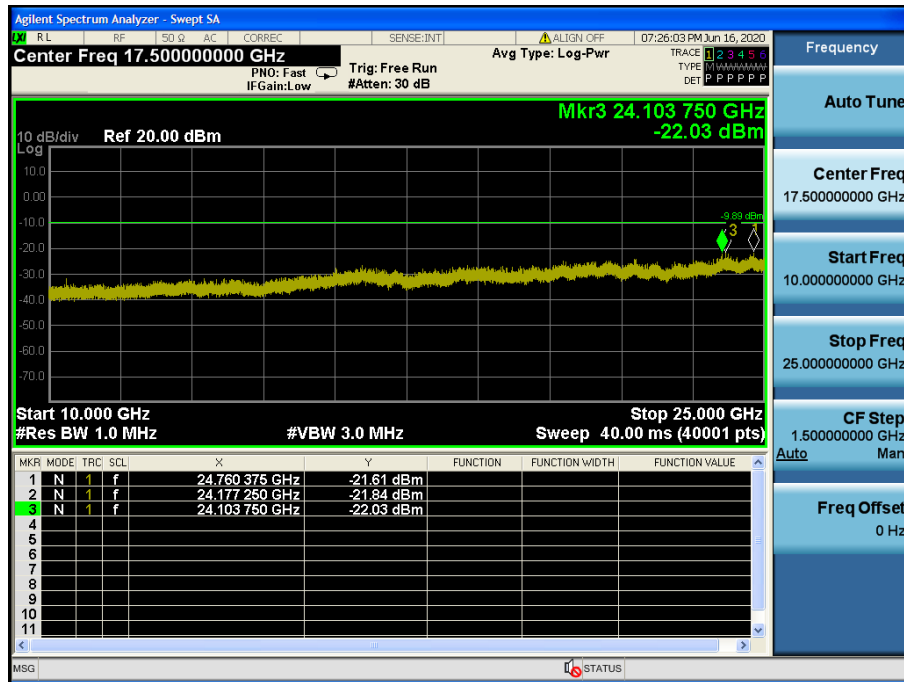
Low Band-edge



Conducted Spurious Emissions

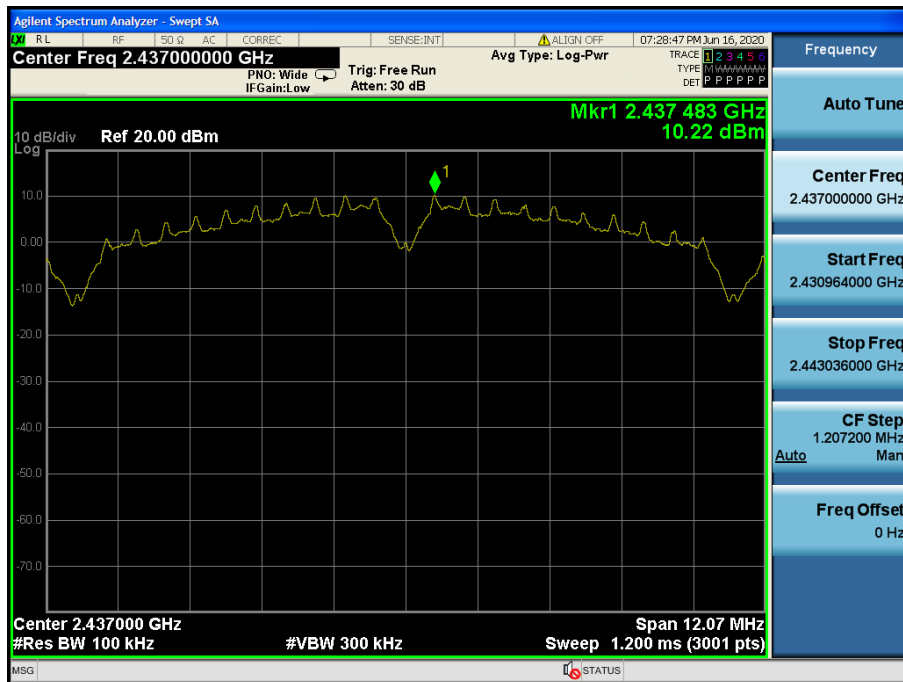


Conducted Spurious Emissions

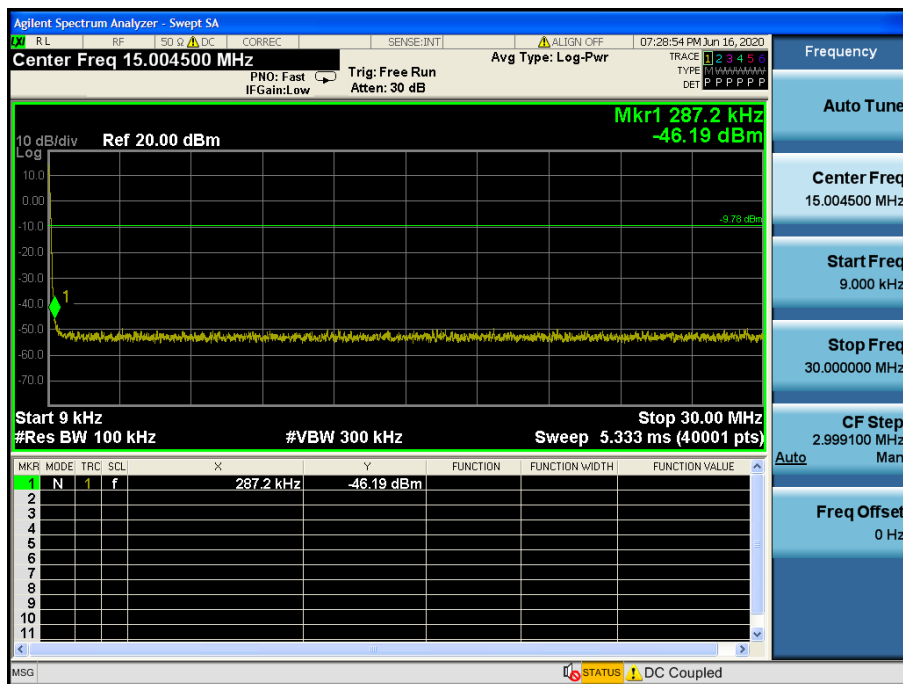


TM 1 & ANT 1 & 2 437

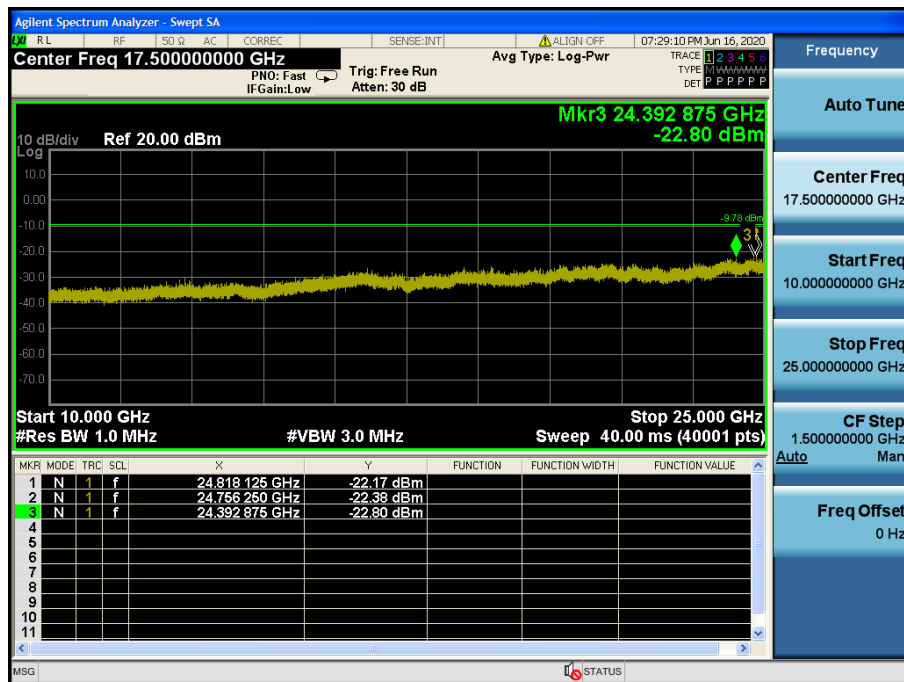
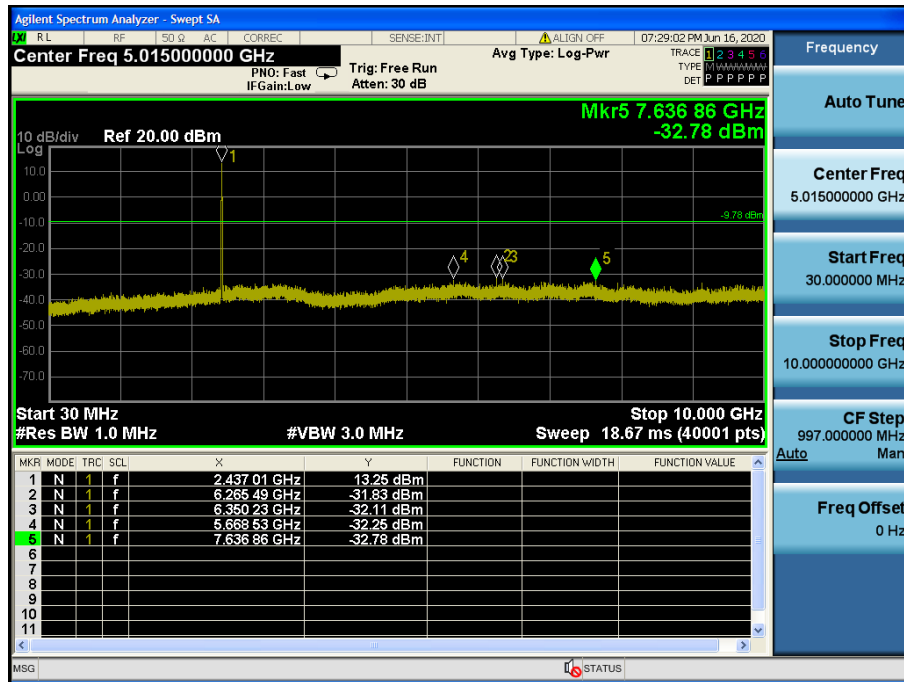
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Conducted Spurious Emissions

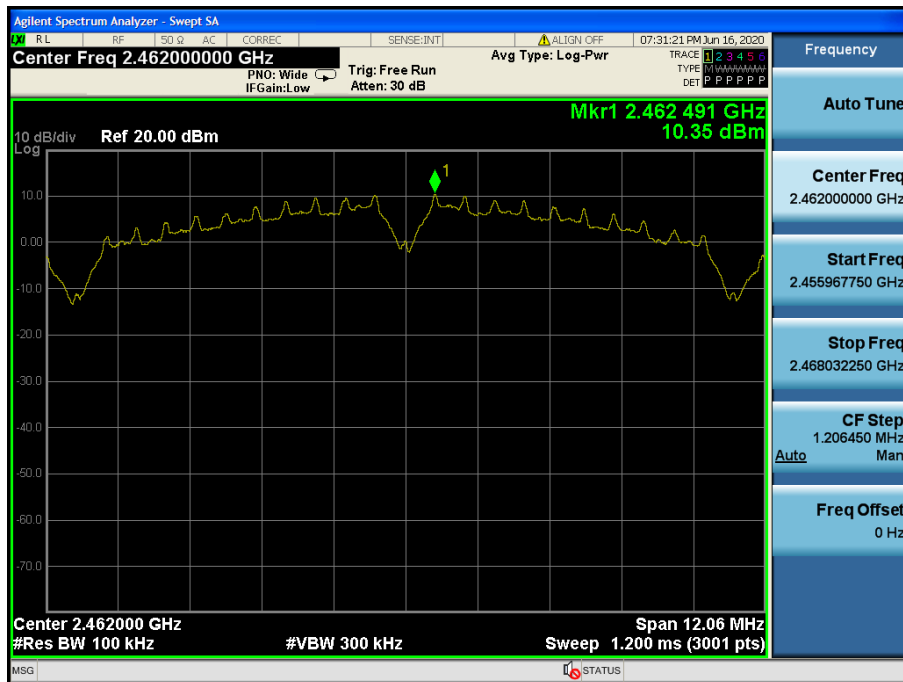


Conducted Spurious Emissions

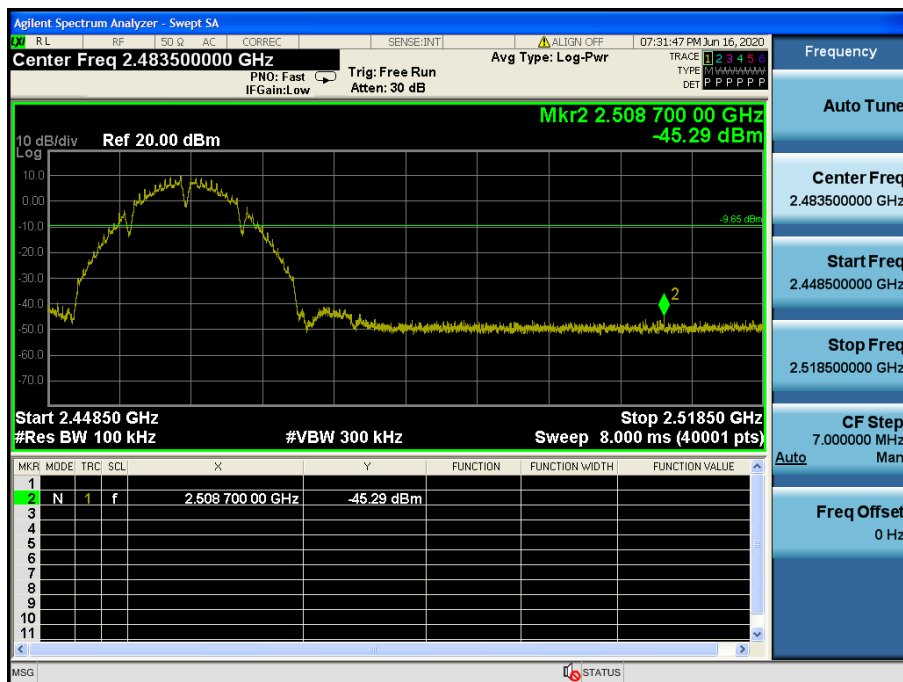


TM 1 & ANT 1 & 2 462

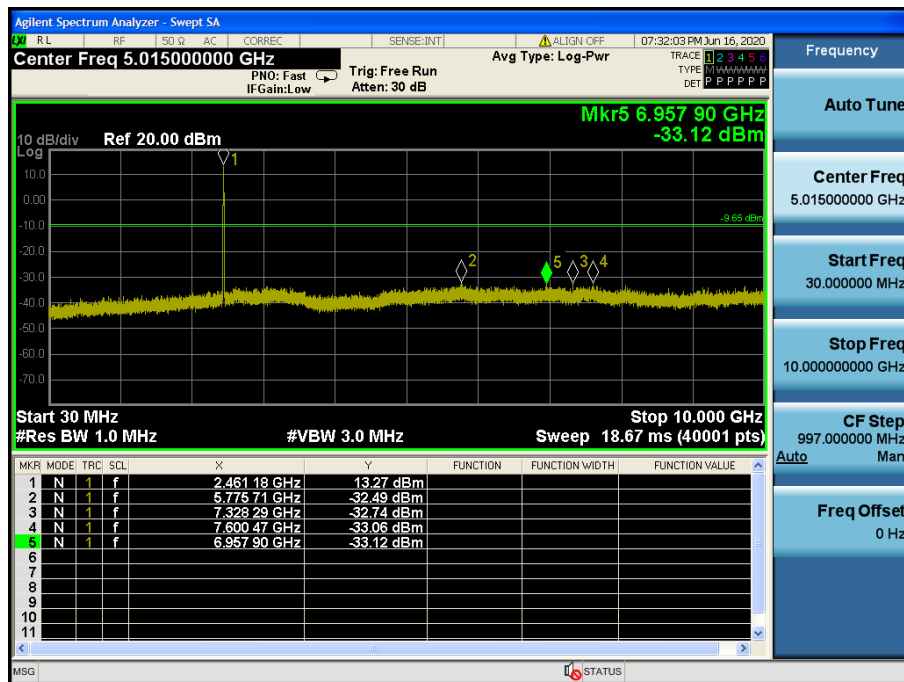
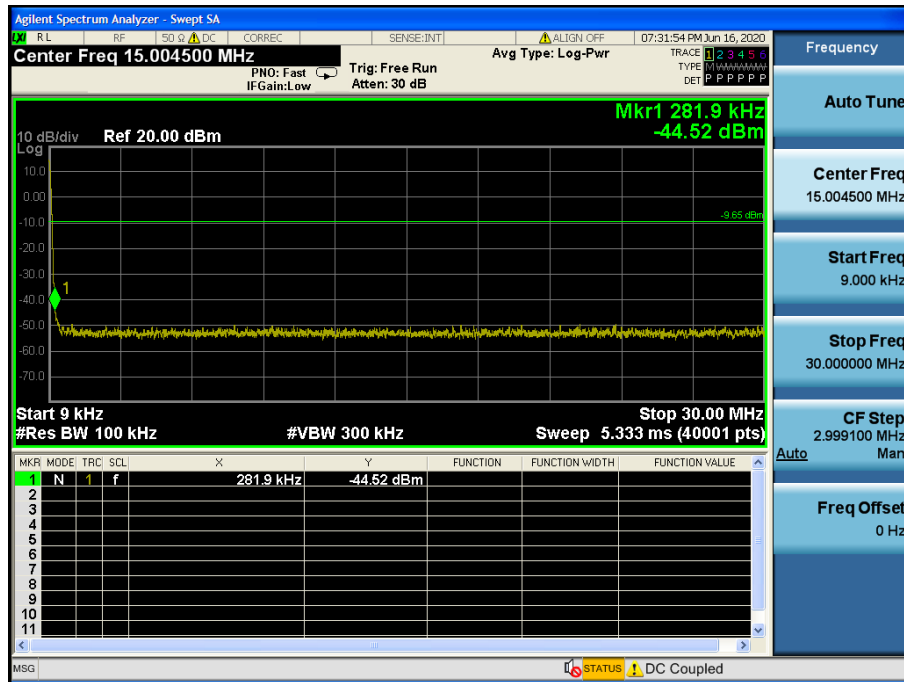
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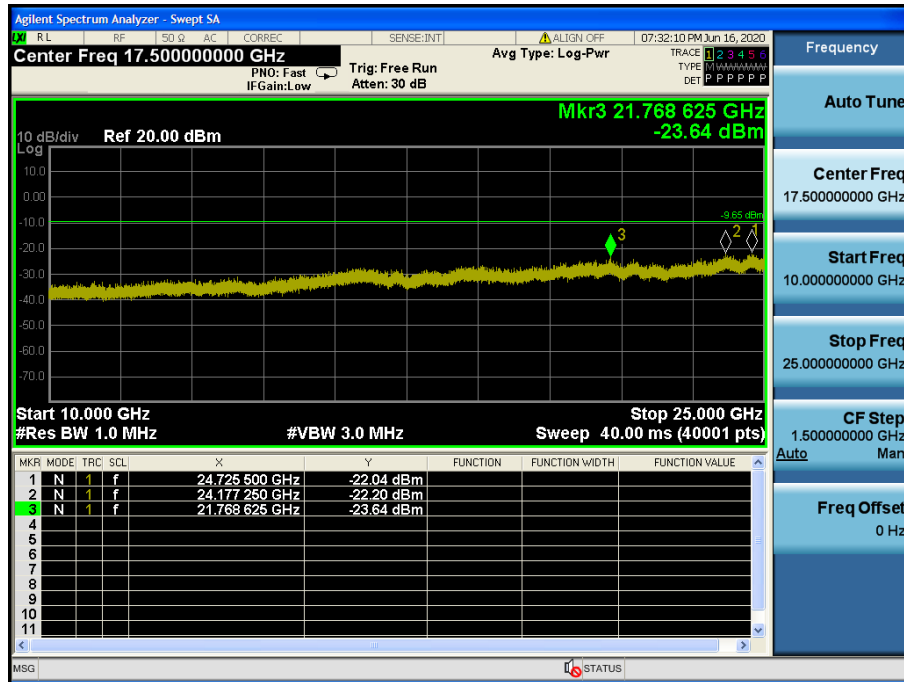
High Band-edge



Conducted Spurious Emissions

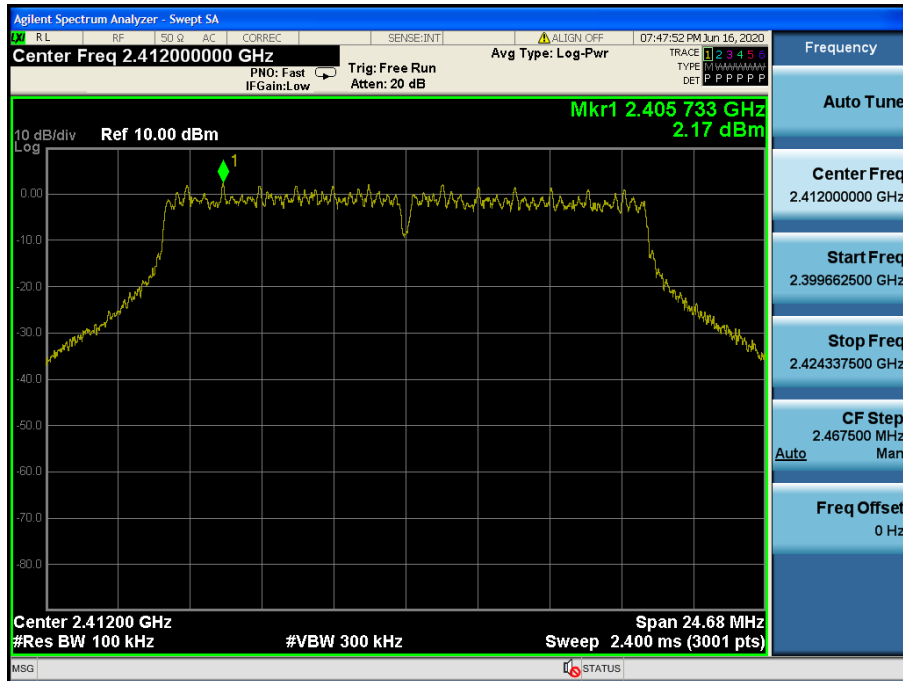


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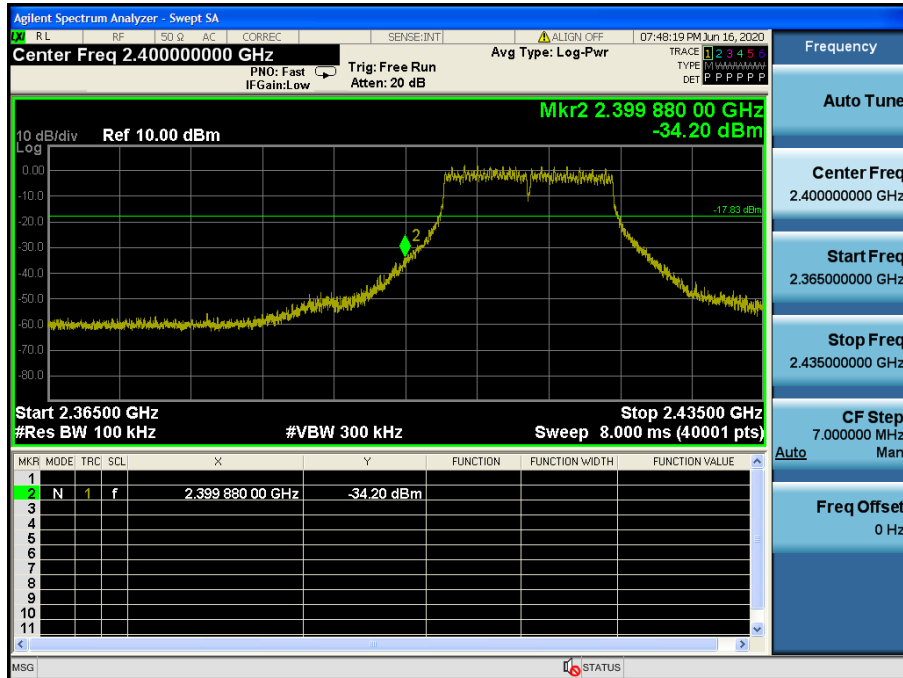


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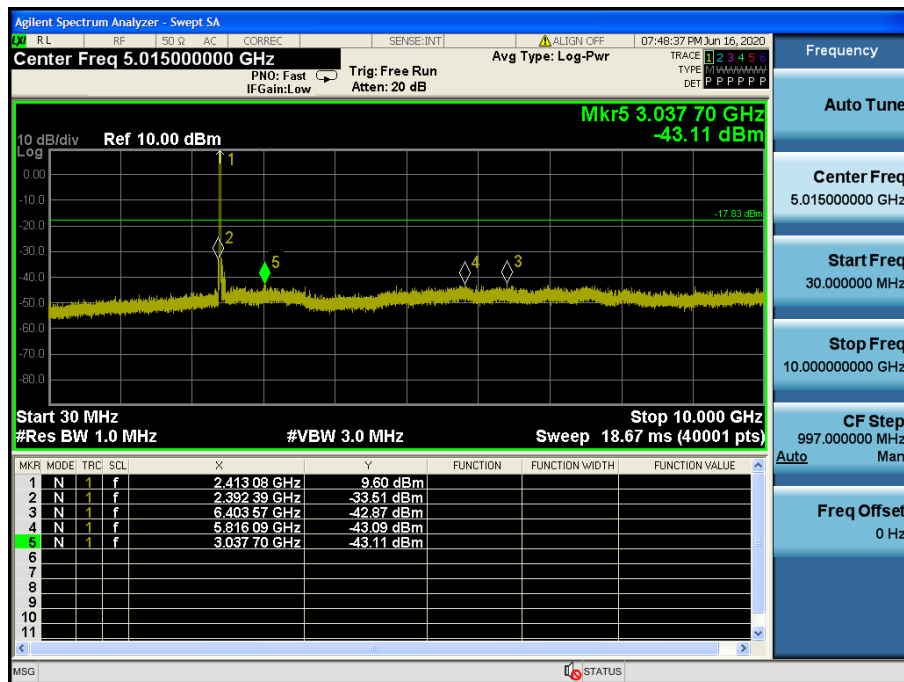
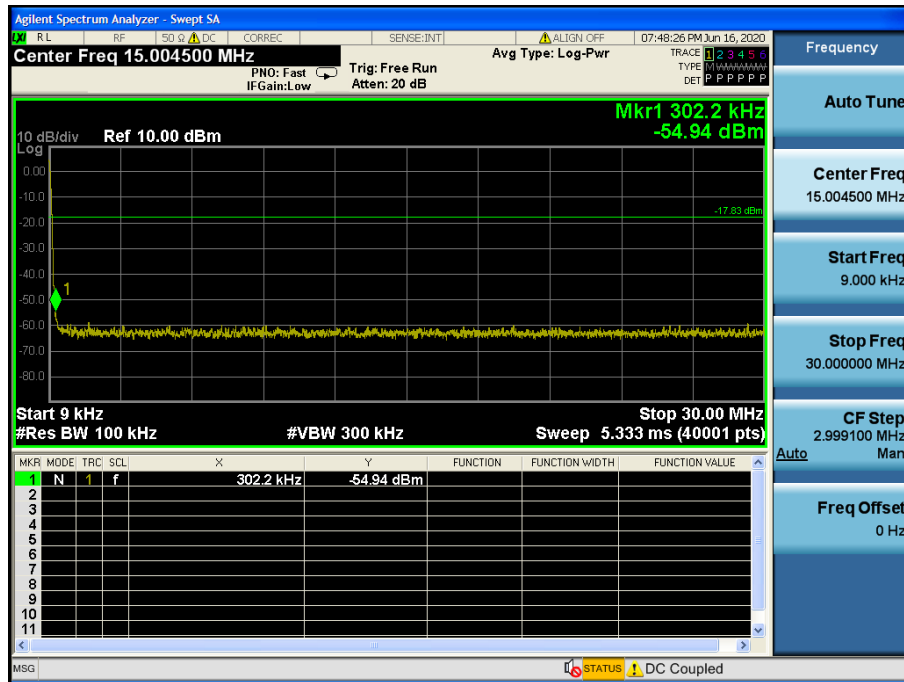
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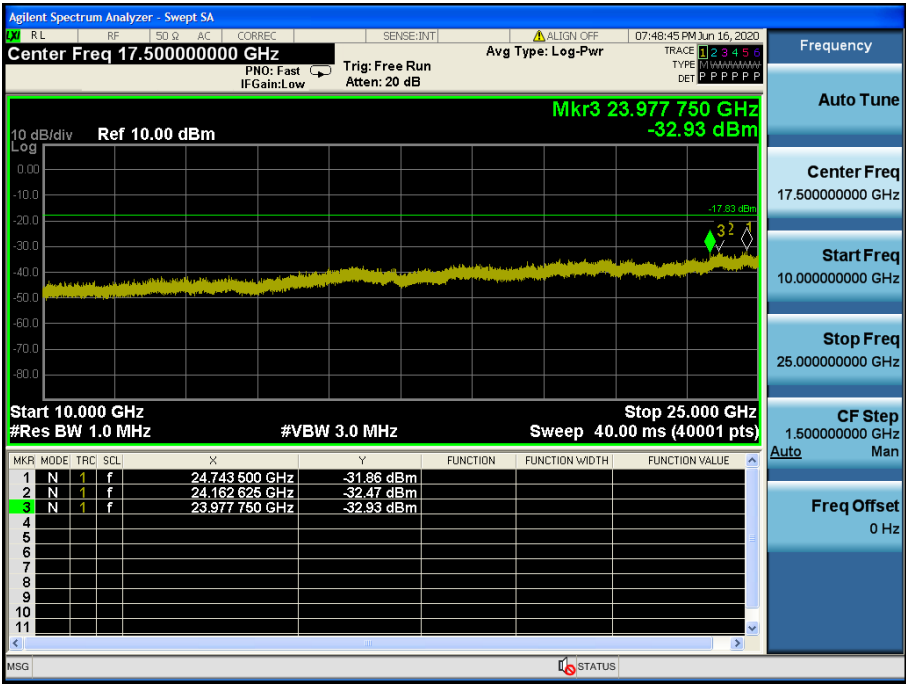
Low Band-edge



Conducted Spurious Emissions

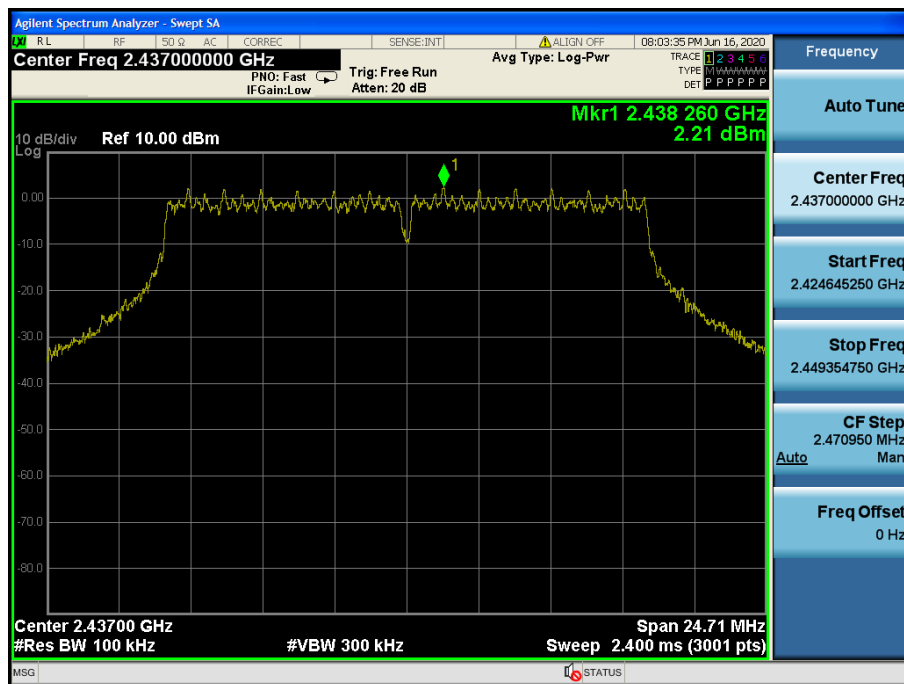


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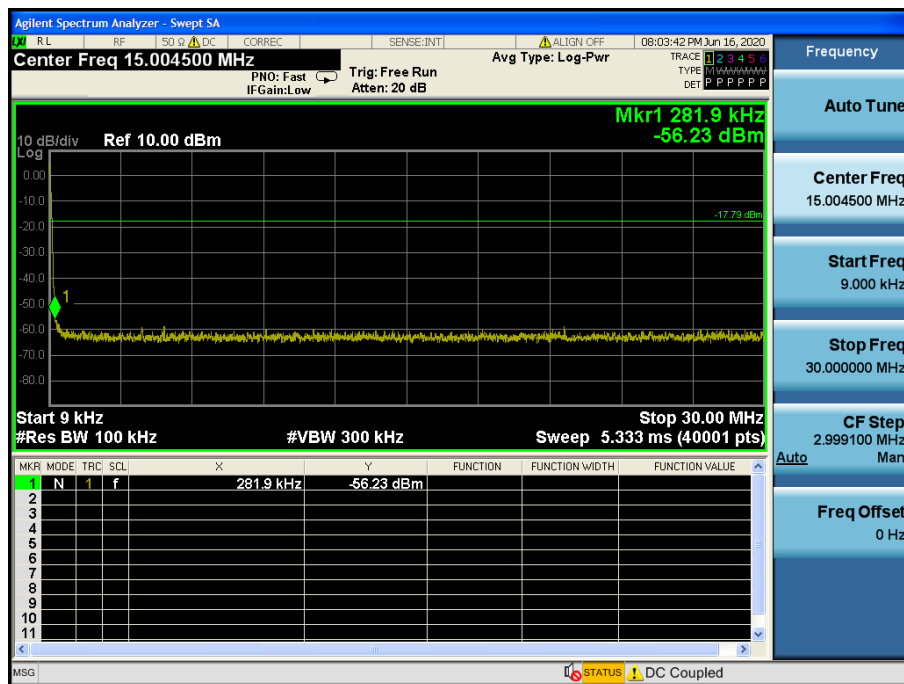


TM 2 & ANT 1 & 2 437

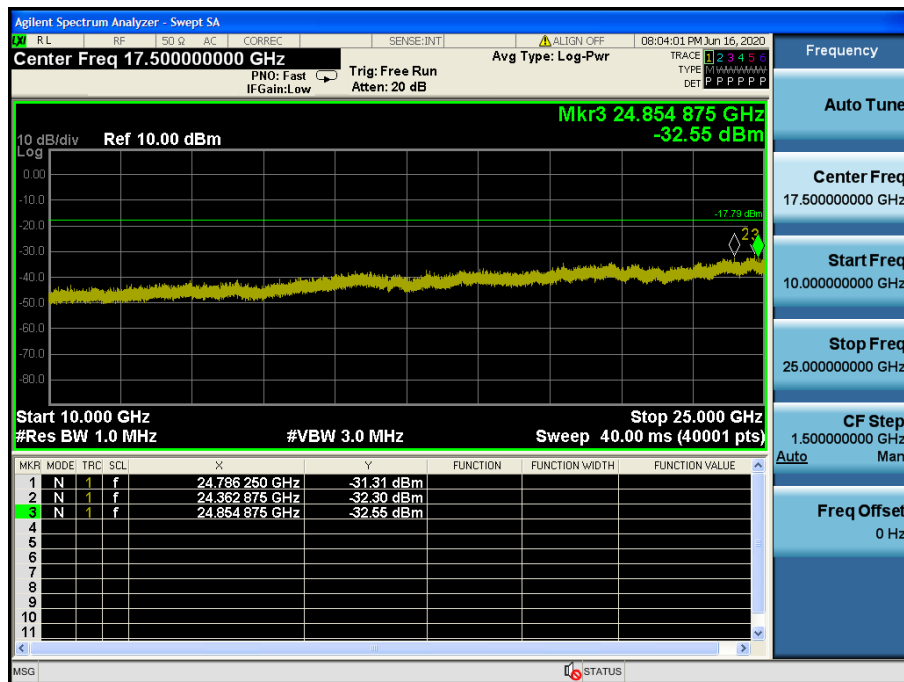
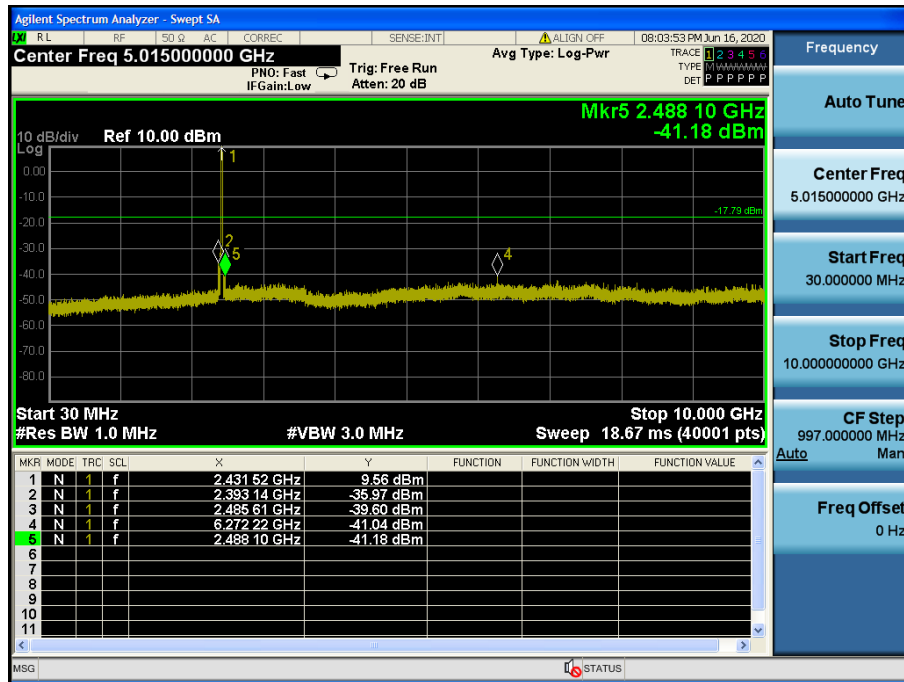
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Conducted Spurious Emissions

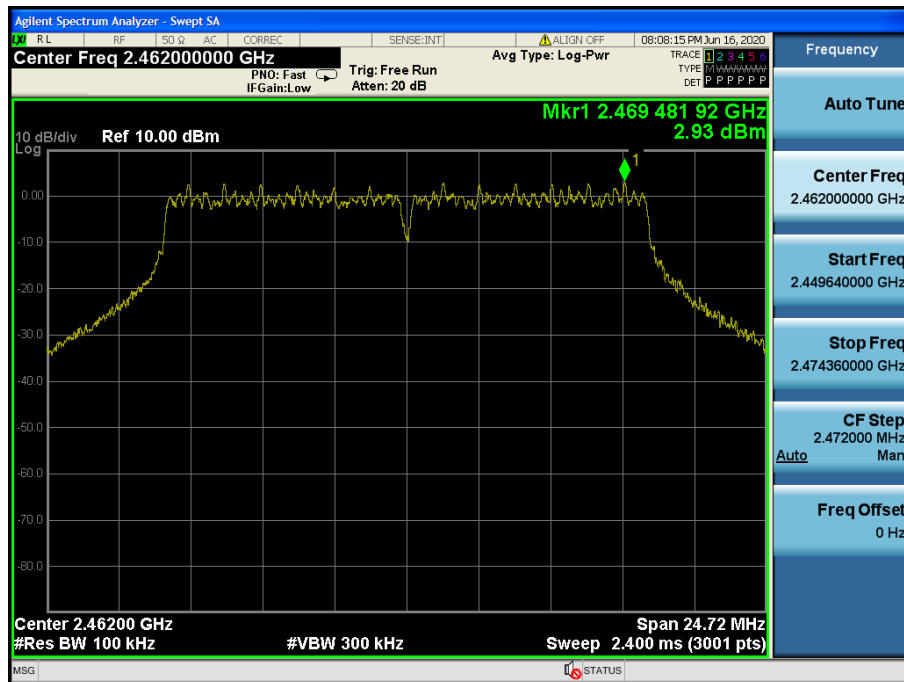


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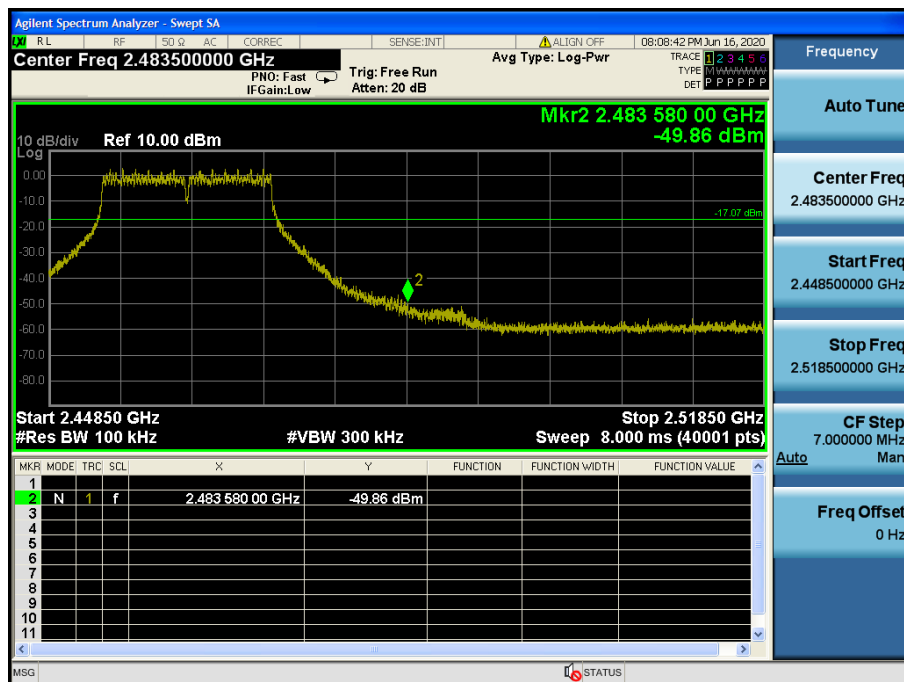


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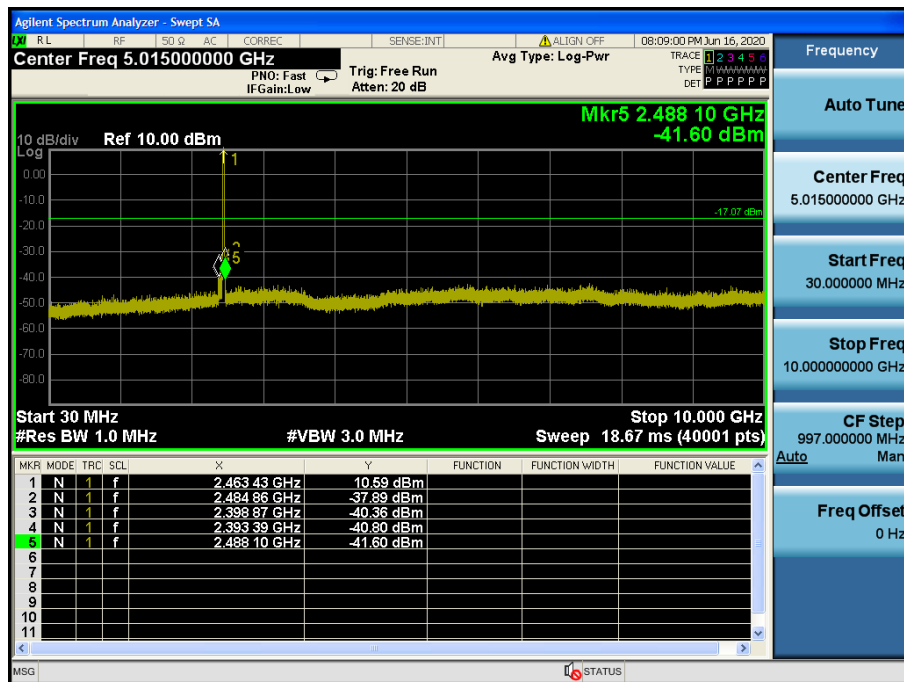
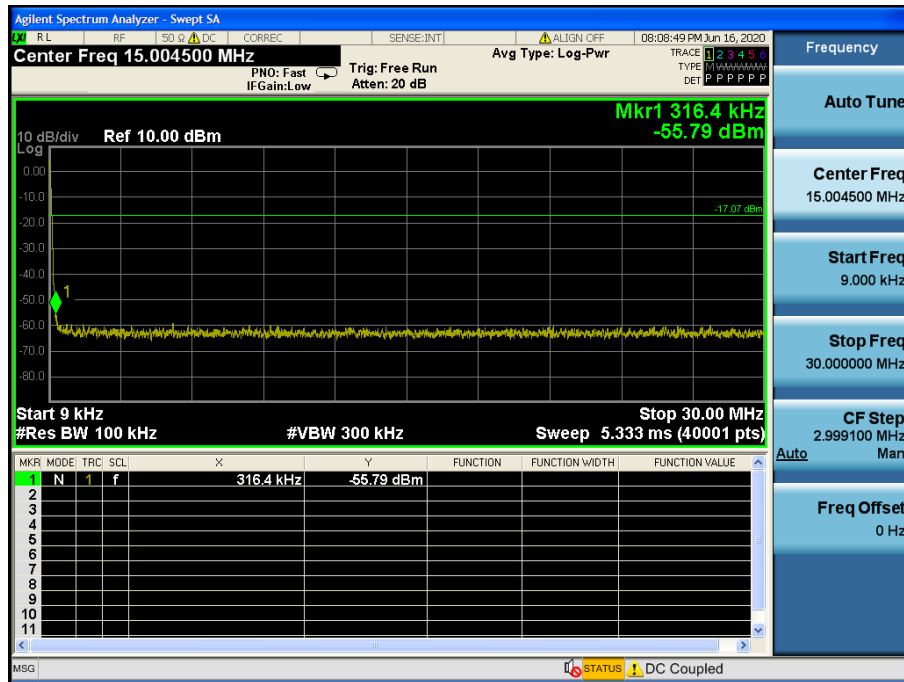
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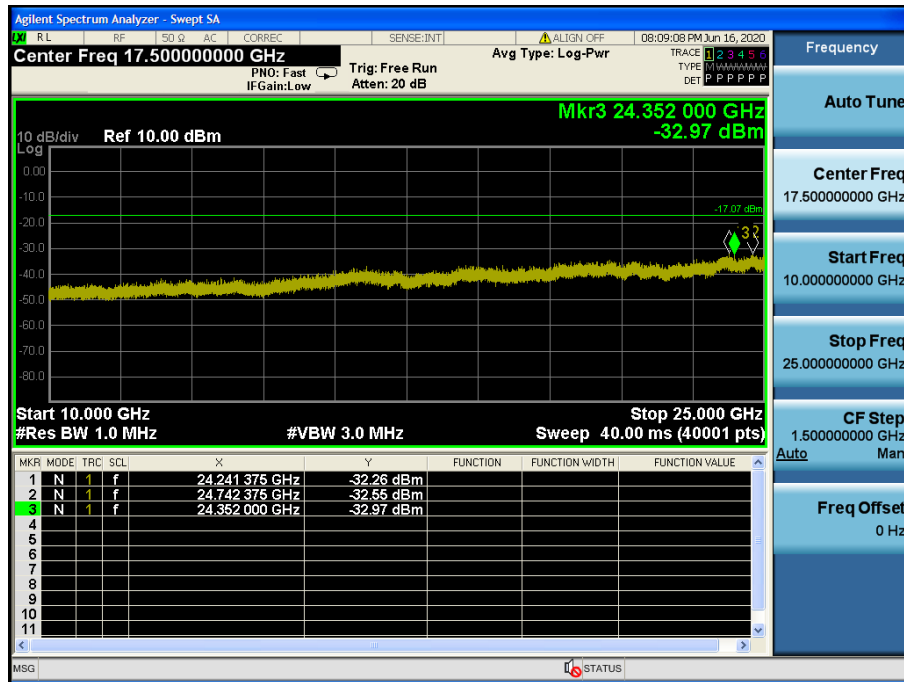
High Band-edge



Conducted Spurious Emissions

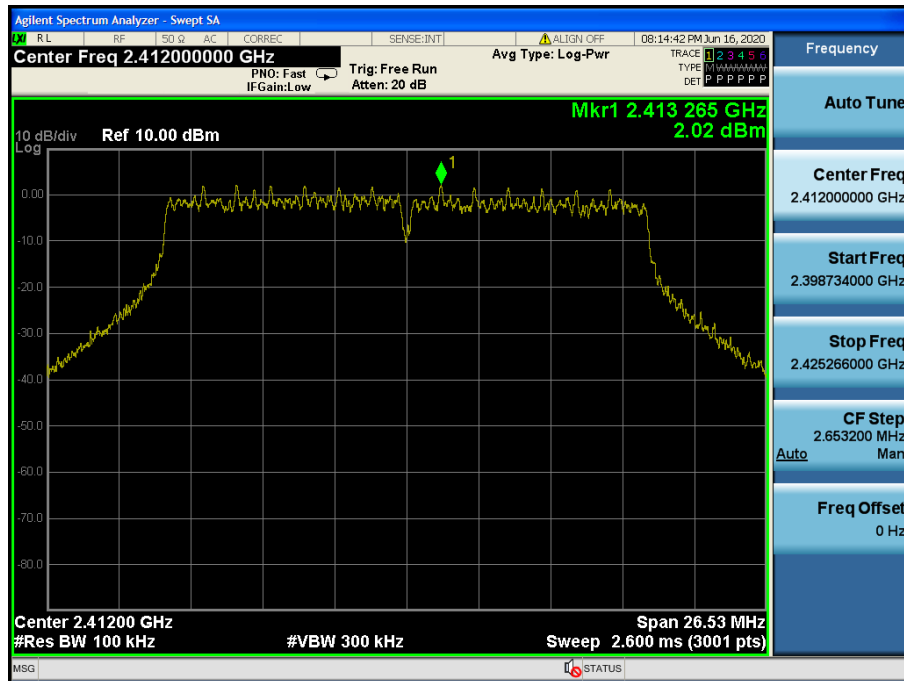


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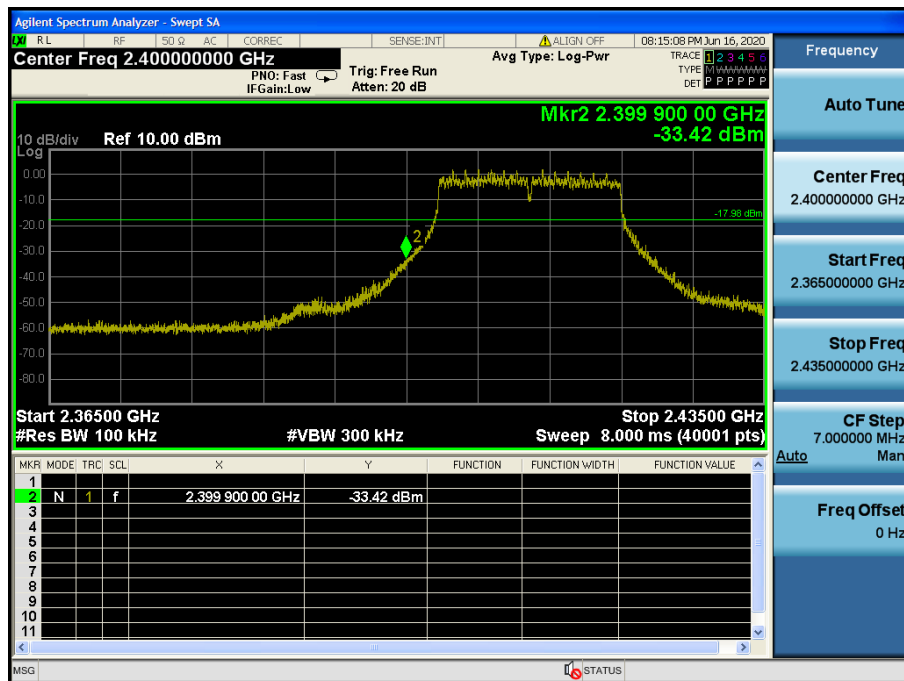


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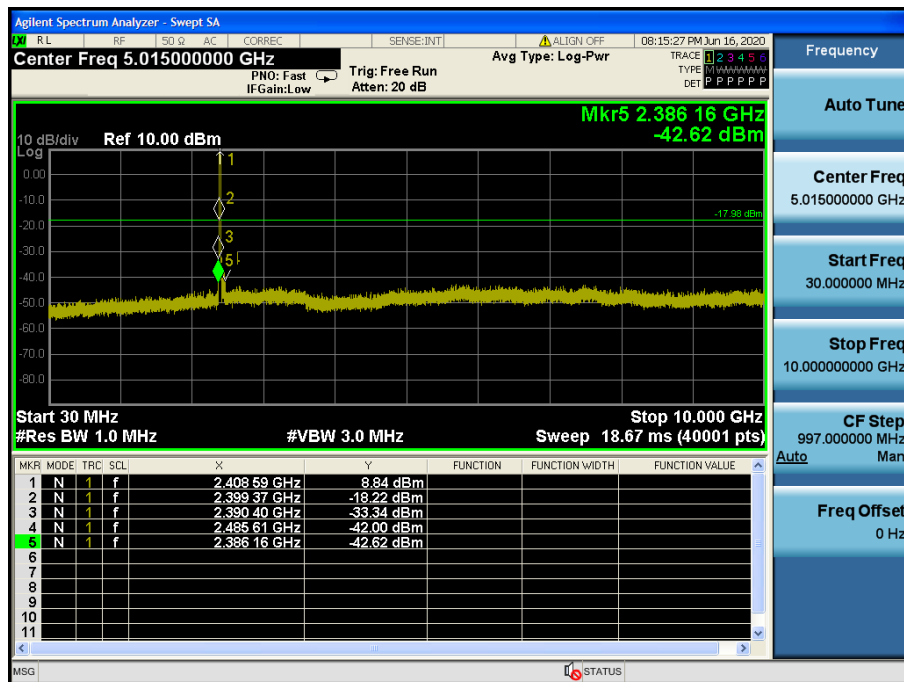
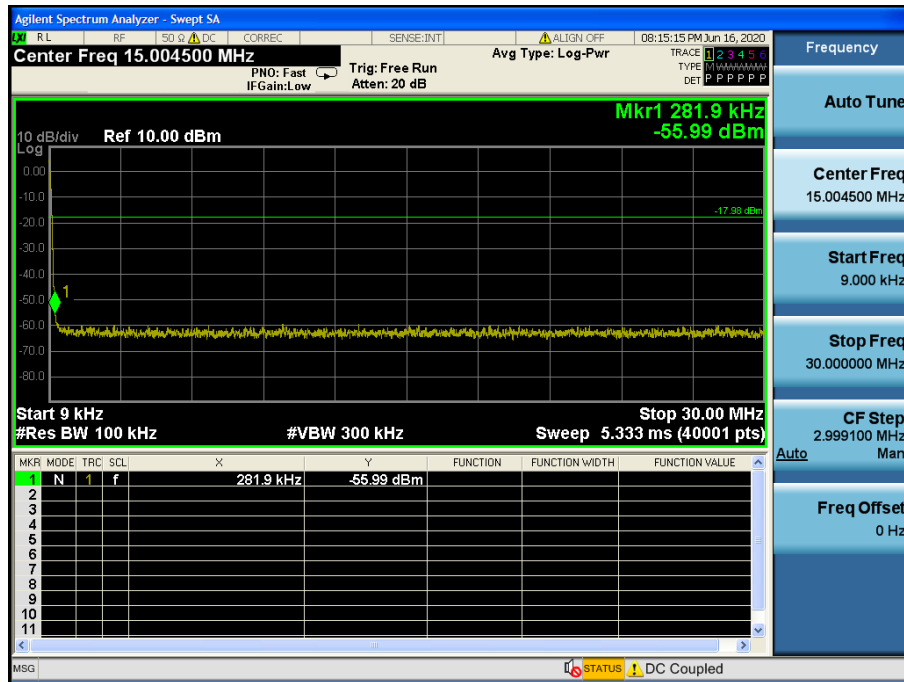
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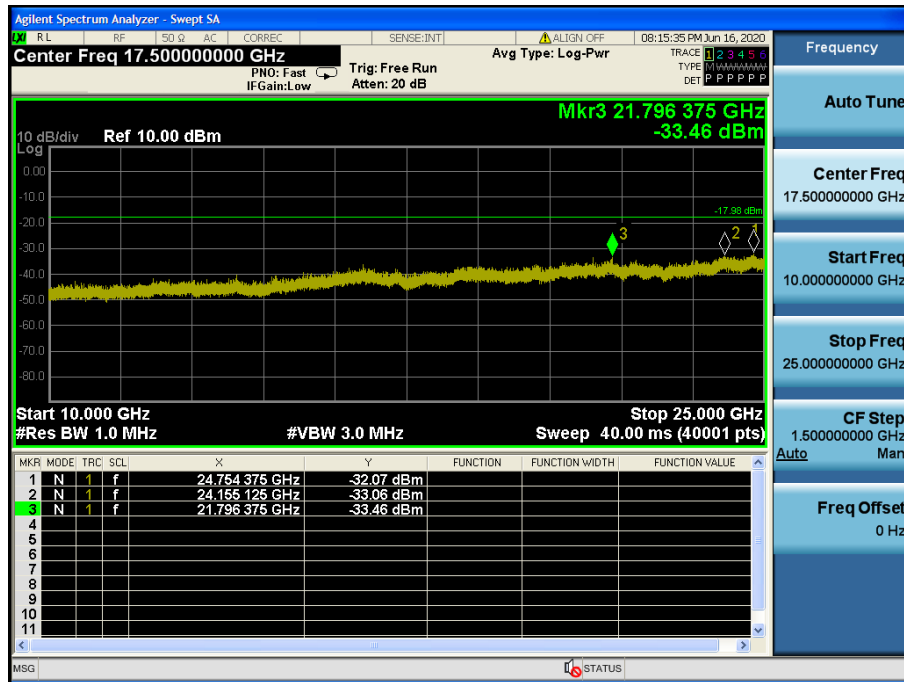
Low Band-edge



Conducted Spurious Emissions

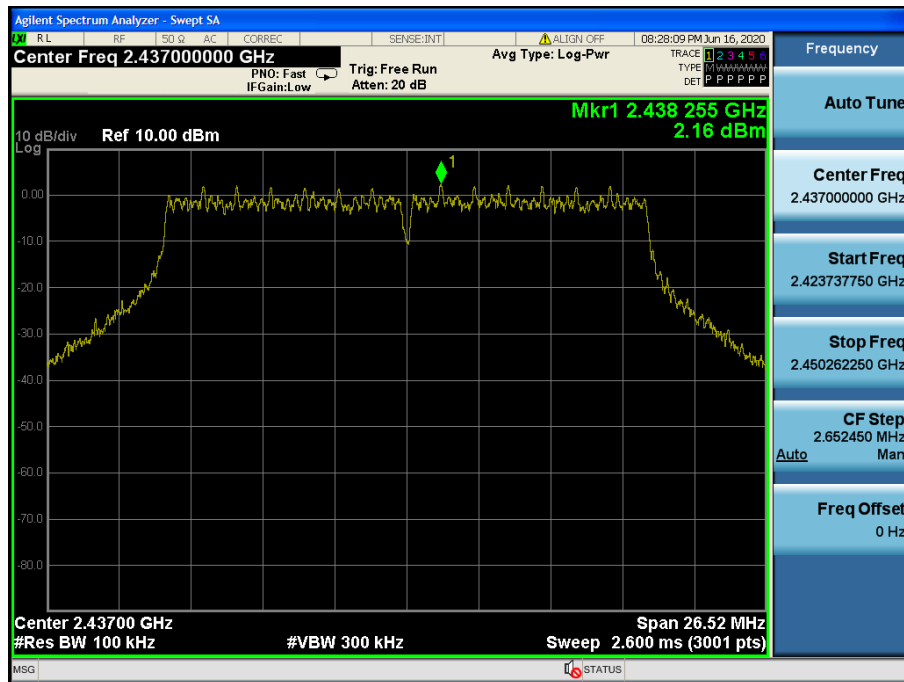


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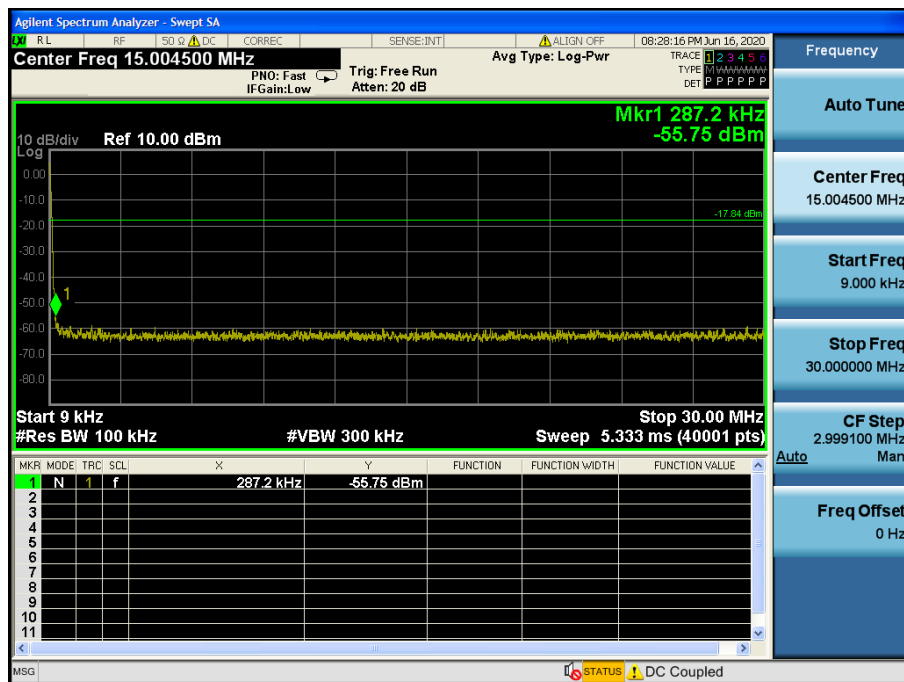


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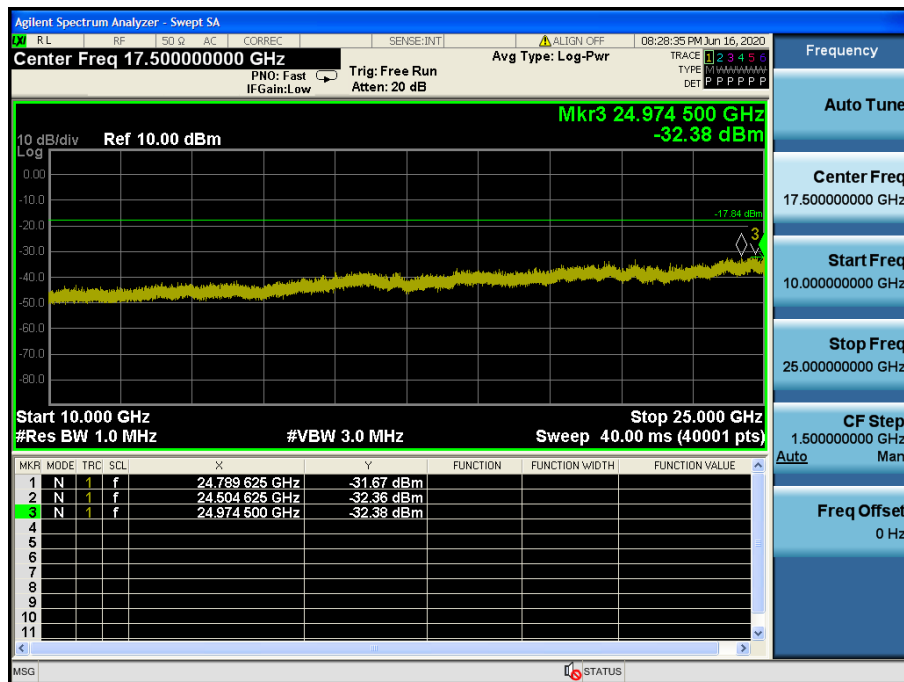
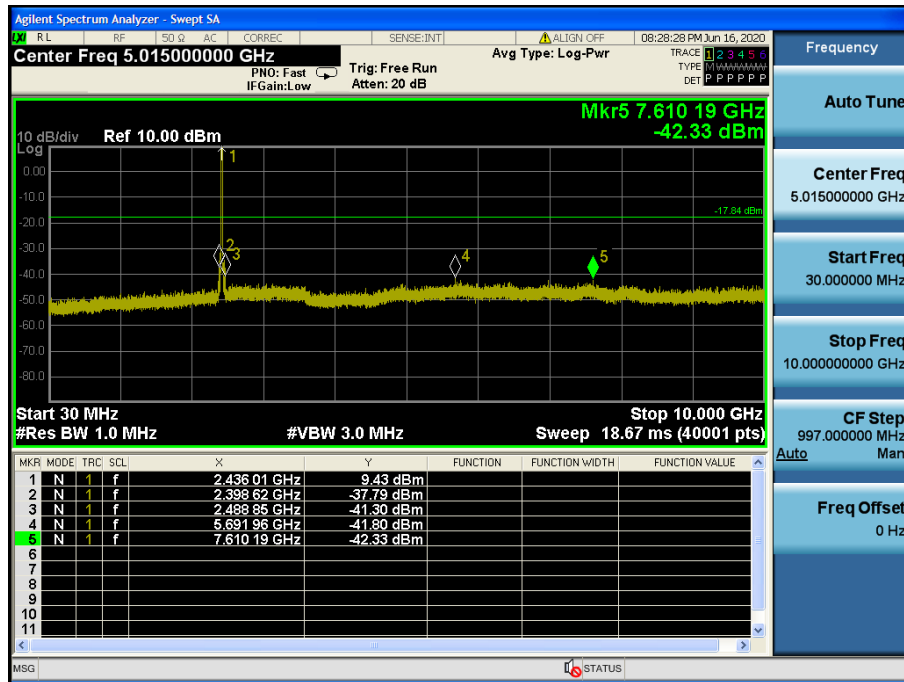
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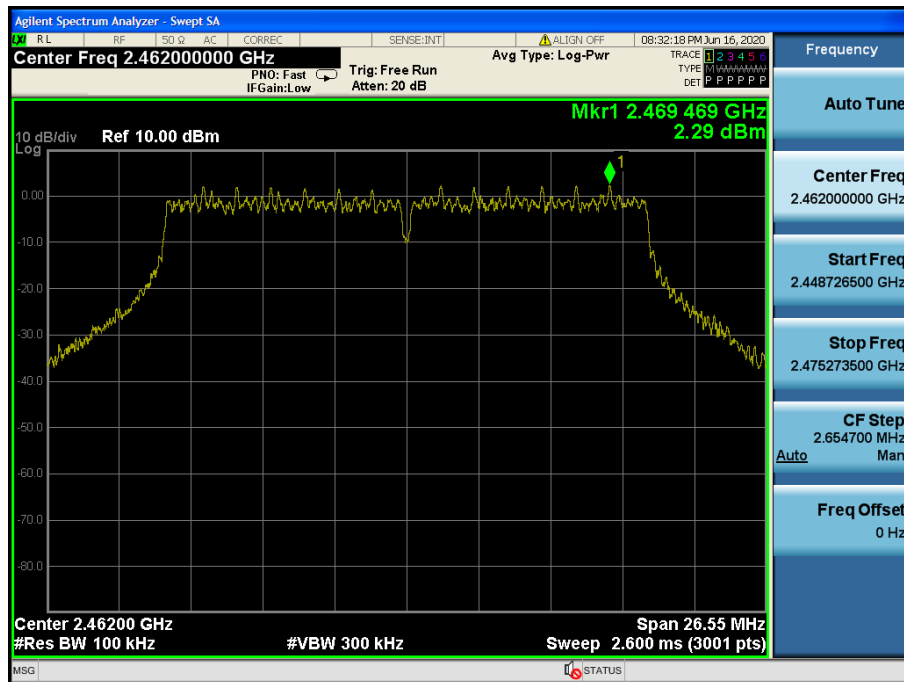


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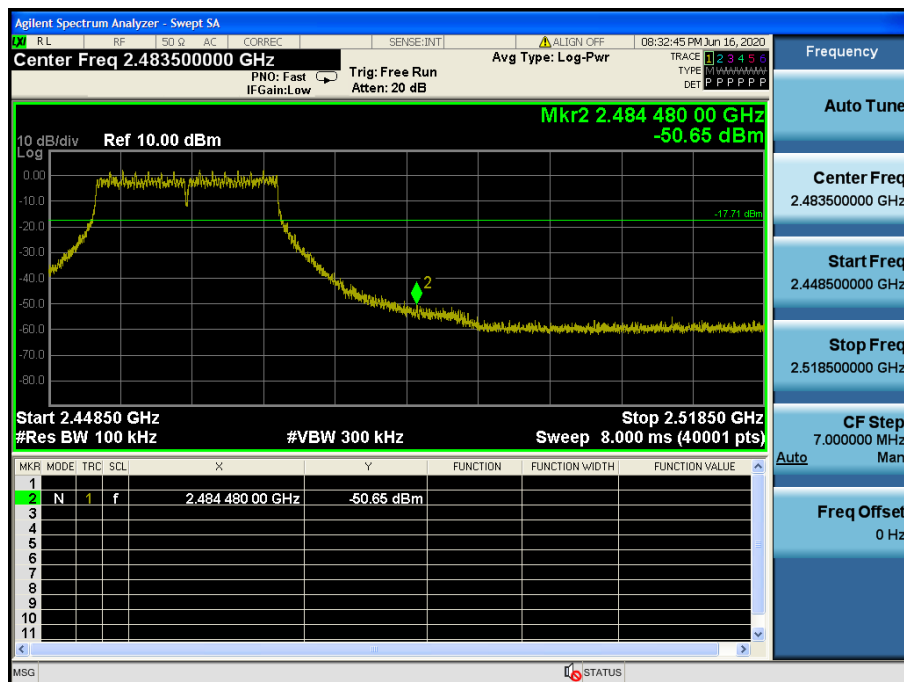


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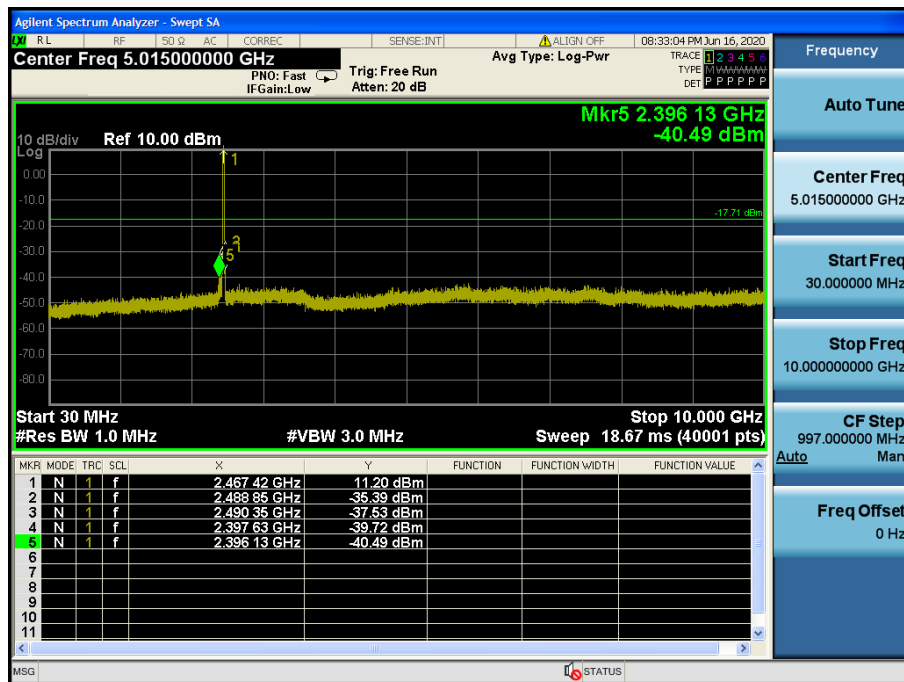
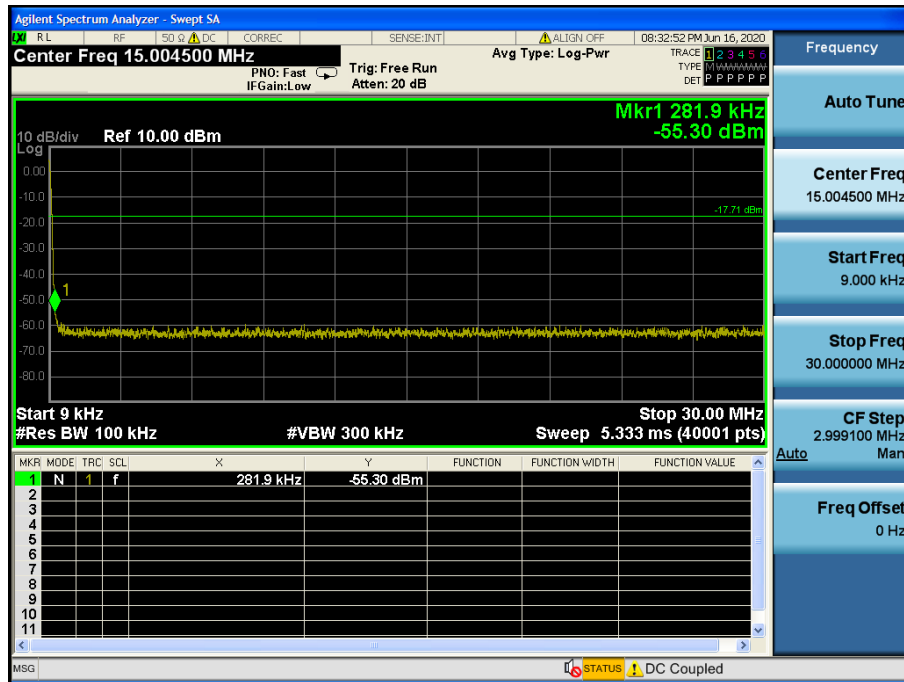
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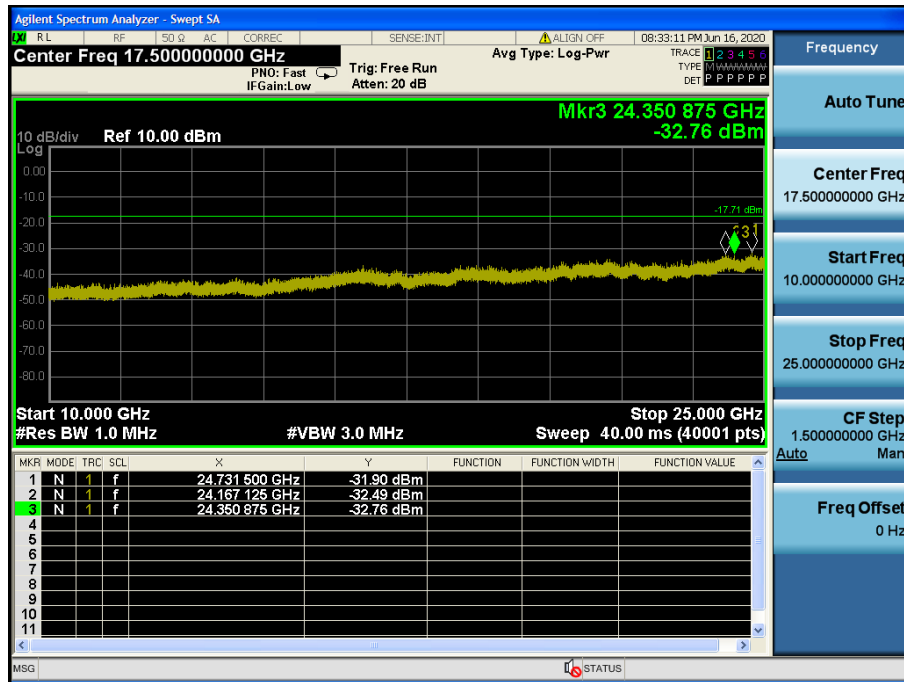
High Band-edge



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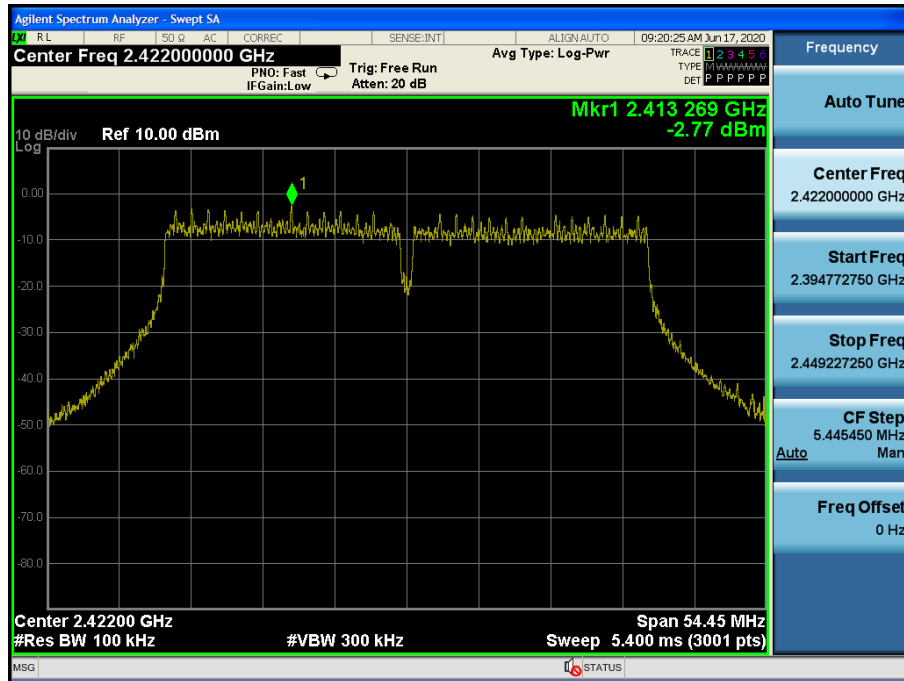


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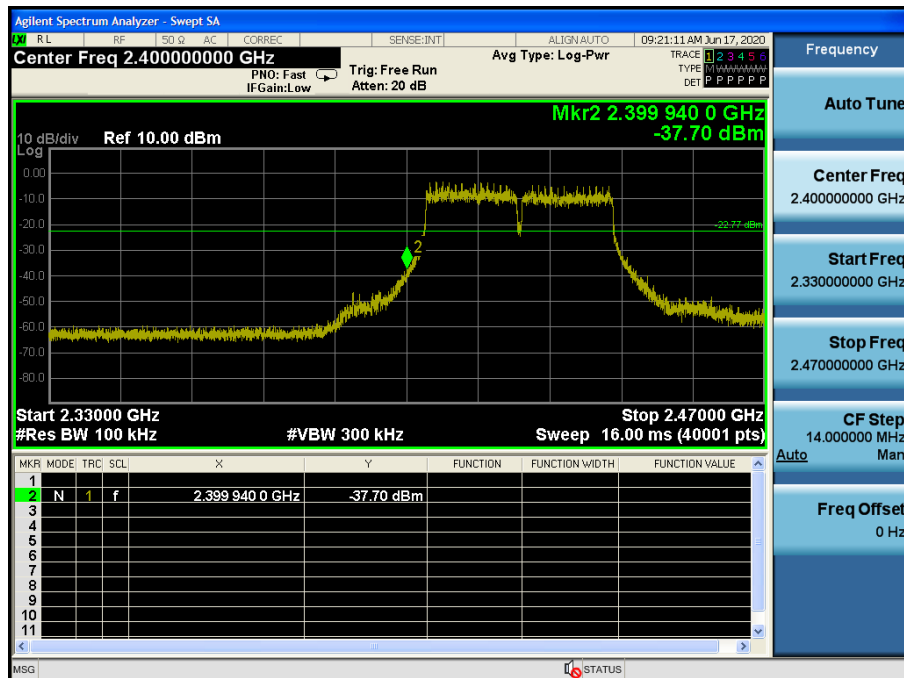


TM 4 & ANT 1 & 2 412

Reference



Low Band-edge



Conducted Spurious Emissions

