

Test report No:
NIE: 66084RRF.019A1

Test Report

USA FCC Part 15.407, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Automotive infotainment System
(*) Trademark	Mercedes-Benz
(*) Model and /or type reference	NTG6N HIGH
Other identification of the product	HW version: D9 SW version: E870 FCC ID: T8GNTG6NH1 IC: 6434A-NTG6NH1
(*) Features	FM, AM, DAB, TV, USB, UFS, Bluetooth, WLAN, GPS
Applicant	HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH BECKER-GOERING-STR. 16, 76307 KARLSBAD, GERMANY
Test method requested, standard	USA FCC Part 15.407 (10-1-19) Edition: Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. USA FCC Part 15.209 (10-1-19) Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 Amendment 1 (March 2019). Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Carlos Luque RF Lab. Supervisor 
Date of issue	2021-04-26
Report template No	FDT08_23 (*) "Data provided by the client"

Firmado digitalmente
por 74841983Y JOSE
CARLOS LUQUE
(C:A29507456)
Fecha: 2021.04.26
16:31:12 +02'00'

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Competences and guarantees

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

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

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Uncertainty

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

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample of the model NTG6N HIGH is an automotive head unit to be installed in cars with the following features: FM, AM, DAB, TV, USB, UFS, Bluetooth, WLAN, GPS.

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

Usage of samples

Samples undergoing test have been selected by: The client.

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

Control N°	Description	Model	Serial N°	Date of reception
66084B/019	Automotive infotainment System	NTG6N HIGH	HBM249L4974002	2020/12/23
56848G/050	Harness	--	--	2019/01/11

Auxiliary elements used with the Sample S/01:

Control N°	Description	Model	Serial N°	Date of reception
56848G/014	Ethernet Cable	--	--	2019/01/08
56848G/144	HMI-CAN Box	--	H0034731	2019/01/11

Sample S/01 has undergone the following test(s): The Conducted tests indicated in the Appendixes A, B, C.

- Sample S/02 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
66084B/019	Automotive infotainment System	NTG6N HIGH	HBM249L4974002	2020/12/23
56848G/127	Harness	--	--	2019/01/11

Auxiliary elements used with the Sample S/02:

Control N°	Description	Model	Serial N°	Date of reception
56848G/090	Ethernet Cable	--	--	2019/01/11
56848G/143	HMI-CAN Box	--	H0034735	2019/01/11

Sample S/02 has undergone the following test(s): The U-NII-1 Radiated SISO 802.11 a20 tests, the U-NII-1 Radiated MIMO 802.11 n20 tests but the subrange 1-7 GHz tests, the U-NII-3 Radiated SISO 802.11 ac20 tests, the U-NII-3 Radiated MIMO 802.11 n20 tests but the subrange 1-7 GHz tests indicated in the Appendixes B, C.

- Sample S/03 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
66084B/017	Automotive infotainment System	NTG6N HIGH	HBM	2020/12/23
56848G/050	Harness	--	--	2019/01/11

Auxiliary elements used with the Sample S/03:

Control N°	Description	Model	Serial N°	Date of reception
56848G/014	Ethernet Cable	--	--	2019/01/08
56848G/144	HMI-CAN Box	--	H0034731	2019/01/11

Sample S/03 has undergone the following test(s): The U-NII-1 Radiated SISO 802.11 n20, ac20, n40, ac40, ac80 of the subrange 1-7 GHz tests, the U-NII-1 Radiated MIMO 802.11 n20 of the subrange 1-7 GHz tests, the U-NII-3 Radiated SISO 802.11 a20, n20, n40, ac40, ac80 tests, the U-NII-3 Radiated MIMO 802.11 n20 of the subrange 1-7 GHz tests indicated in the Appendixes B, C.

Test sample description

Ports..... :	Port name and description	Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
	Car Connector A	>3m ^(x1)	☒	☐	☐		
	Car Connector B	>3m ^(x1)	☒	☐	☐		
	Display Connector CID/PIP / RVC	>3m ^(x1)	☒	☒	☐		
	USB Connector	<3m ^(x2)	☒	☒	☐		
	Eth Connector	>3m ^(x1)	☒	☒	☐		
	BT/WLAN-Antenna	>3m ^(x1)	☒	☒	☐		
	FM/AM, TV/SDARS Ant	>3m ^(x1)	☒	☒	☐		
	GPS Antenna	>3m ^(x1)	☒	☒	☐		
Supplementary information to the ports..... :	For EMC-Testing all cables should be connected to the connectors!						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐ AC:		☐	☐	☐	☐	☐
	☐ AC:		☐	☐	☐	☐	☐
	☒ DC: 12V Car battery / attenuator (9,5-15,5V normal operation)						
	☐ DC:						
Rated Power	9,5-15,5V normal operation						
Clock frequencies..... :	see schematics						
Other parameters	FCC ID: T8GNTG6NH1 / IC: 6434A-NTG6NH1						
Software version	E412.007						
Hardware version	D4 / Serial Product						
Dimensions in cm (W x H x D)	182 x 78 x 160 mm						
Mounting position	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other: automotive headunit					
Modules/parts..... :	Module/parts of test item		Type	Manufacturer			
	N/A						
Accessories (not part of the test item)	Description		Type	Manufacturer			
	Display		A247 905 69	Daimler OEM Displ.			
	CAN-Box		-	HBAS			
	Cable harness		-	HBAS			
	BT/WLAN-Antenna		A247 905 83	Hirschmann			
	-						
Documents as provided by the applicant..... :	Description		File name	Issue date			
	Technical Description						
	-						
	-						

Identification of the client

HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
BECKER-GOERING-STR. 16, 76307 KARLSBAD, GERMANY

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2021-01-15
Date (finish)	2021-03-26

Document history

Report number	Date	Description
66084RRF.019	2021-04-13	First release.
66084RRF.019A1	2021-04-26	Second release. This report is modified due to FCC ID/IC update. This modification test report cancels and replaces the test report 66084RRF.019.

Environmental conditions

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

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

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

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

In the chamber for conducted measurements, the following limits were not exceeded during the test:

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

Remarks and comments

The tests have been performed by the technical personnel: Nicolás Salguero, José Manuel Jiménez, Verónica García, Pablo Redondo, Cristina Calle, Miguel Manuel López.

Used instrumentation:

Radiated Measurements:

		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2.	Shielded Room ETS LINDGREN S101	N.A.	N.A.
3.	Biconical/Log Antenna 30 MHz - 6 GHz ETS LINDGREN 3142E	2020/04	2023/04
4.	EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7	2020/12	2022/12
5.	Preamplifier G>40dB 10MHz-6GHz, BONN ELEKTRONIK, BLNA 0160-01N	2021/03	2022/03
6.	Spectrum Analyzer ROHDE AND SCHWARZ FSW50	2020/07	2022/07
7.	RF Preamplifier, 40 dB ,1-18 GHz BONN ELEKTRONIK BLMA 0118-1M	2020/05	2021/05
8.	Horn Antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2019/11	2022/11
9.	Horn Antenna 18-40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170	2020/05	2023/05
10.	EMI Test Receiver 20Hz-40GHz ROHDE AND SCHWARZ ESU40	2019/09	2021/09
11.	RF Preamplifier, 30dB 500MHz-18GHz, NARDA AMF-3D-00501800-24-10P	2021/01	2022/01
12.	Horn Antenna 1-18 GHz SCHWARZBECK MESS- ELEKTRONIK BBHA 9120 D	2018/06	2021/06

Conducted Measurements

		Last Calibration	Due Calibration
1.	Shielded Room ETS LINDGREN S101	N.A.	N.A.
2.	Signal and Spectrum Analyzer 10 Hz - 40 GHz ROHDE AND SCHWARZ FSV40	2019/09	2021/09
3.	DC Power Supply 40V/40A Rohde & Schwarz NGPE40	2018/03	2021/03
4.	Digital Multimeter FLUKE 179	2020/10	2021/10

Testing verdicts

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

Summary

A. Common requirements for all bands

FCC PART 15 PARAGRAPH / RSS-247		
Requirement – Test case	Verdict	Remark
Duty Cycle	P	
Transmitter 99% Occupied Bandwidth	P	
Transmitter 26 dB Emission Bandwidth (EBW)	P	
<u>Supplementary information and remarks:</u> None.		

B. 5.15 GHz – 5.25 GHz Band

FCC PART 15 PARAGRAPH / RSS-247		
Requirement – Test case	Verdict	Remark
FCC 15.407 (a)(1)(iv) Transmitter Maximum conducted Output Power	P	
RSS-247 6.2.1.1 Transmitter Maximum Equivalent Isotropically Radiated Power EIRP	P	
FCC 15.407 (a)(1)(iv) Transmitter Maximum Power Spectral Density	P	
RSS-247 6.2.1.1 Transmitter EIRP Spectral Density	P	
FCC 15.407 (b)(1)(6) / RSS-247 6.2.1.2 Transmitter Out of Band Radiated Emissions	P	
FCC 15.407 (b)(1) / RSS-247 6.2.1.2 Transmitter Band Edge Radiated Emissions	P	
<u>Supplementary information and remarks:</u> None.		

C. 5.725 GHz – 5.85 GHz Band

FCC PART 15 PARAGRAPH / RSS-247			
Requirement – Test case		Verdict	Remark
FCC 15.407 (e) / RSS-247 Clause 6.2.4.1	6 dB Bandwidth.	P	
FCC 15.407 (a)(3) / RSS-247 6.2.4.1	Transmitter Maximum conducted Output Power	P	
FCC 15.407 (a)(3) / RSS-247 Clause 6.2.4.1	Transmitter Maximum Power Spectral Density	P	
FCC 15.407 (b) (4) / RSS-247 6.2.4.2	Transmitter Band Edge Radiated Emissions	P	
FCC 15.407 (b) (4) (6) / RSS-247 6.2.4.2	Transmitter Out of Band Radiated Emissions	P	
<u>Supplementary information and remarks:</u>			
None.			

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Transmitter Duty Cycle

RESULTS:

The results below are for data rates with a duty cycle less than 98%. The results for all rest of modes having a value > 98%.

Preliminary tests determined the SISO worst case: WLAN1_CORE-0_Port3.
Preliminary tests determined the MIMO worst case: WLAN0_CORE-MIMO_Port1 & Port4.

- WLAN1 - CORE 0 – SISO - Antenna port 3**

Mode	Sub-band U-NII-1			Sub-band U-NII-3		
	Pulse Duration (ms)	Period (ms)	Duty Cycle Correction (dB)	Pulse Duration (ms)	Period (ms)	Duty Cycle Correction (dB)
802.11a20	2.06391	2.56627	0.946115917	2.06302	2.56549	0.946668879
802.11n20	1.91987	2.42134	1.007839542	1.91954	2.42068	1.007402155
802.11ac20	1.93198	2.43334	1.00200169	1.93154	2.43334	1.002990889
802.11n40	0.944042	1.445789	1.851135999	0.944321	1.445847	1.850026905
802.11ac40	0.951711	1.453016	1.837653076	0.951158	1.453127	1.840509073
802.11ac80	0.459863	0.961368	3.20261194	0.45993	0.961469	3.202435478

- WLAN0 – MIMO - Antenna port 1 & 4.**

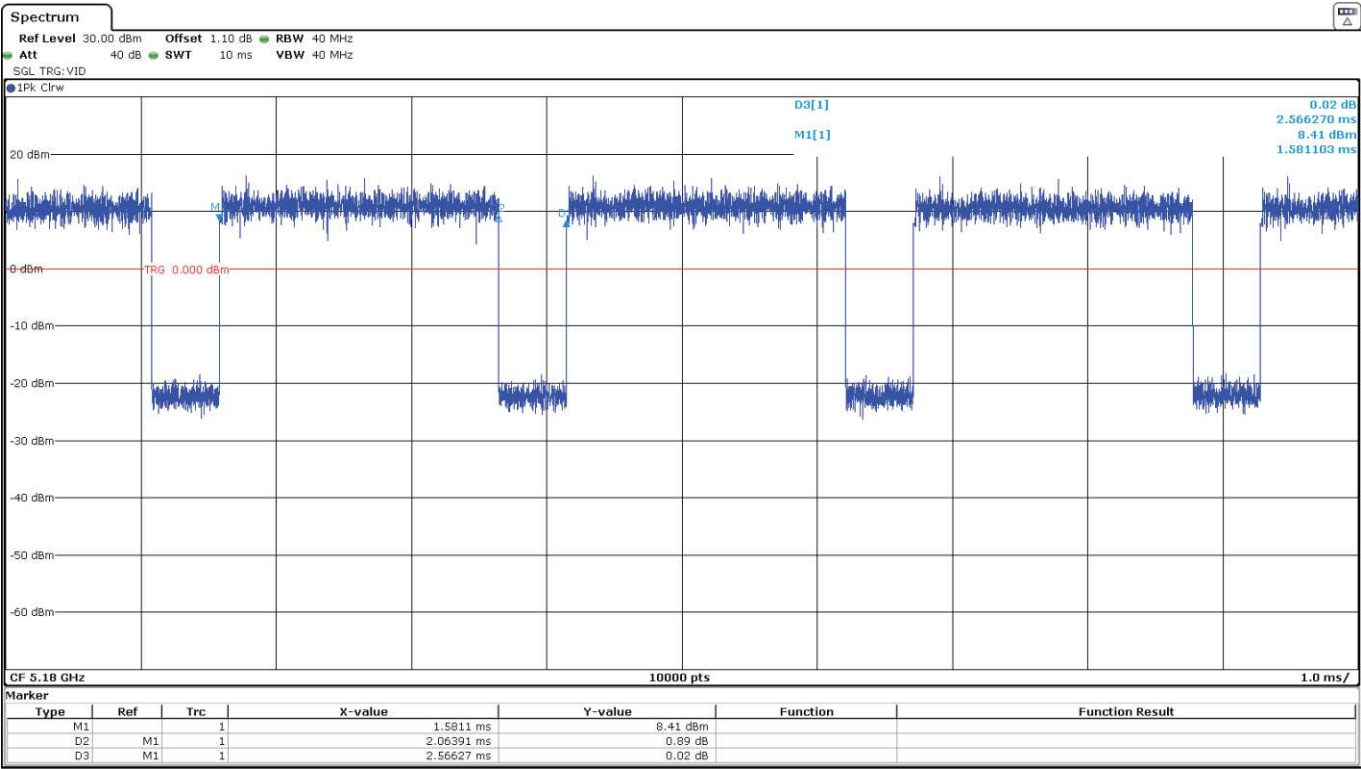
MIMO does not support the modes 802.11 n40, ac40, ac80.

Preliminary testing determined the MIMO 802.11 ac20 as the worst case mode

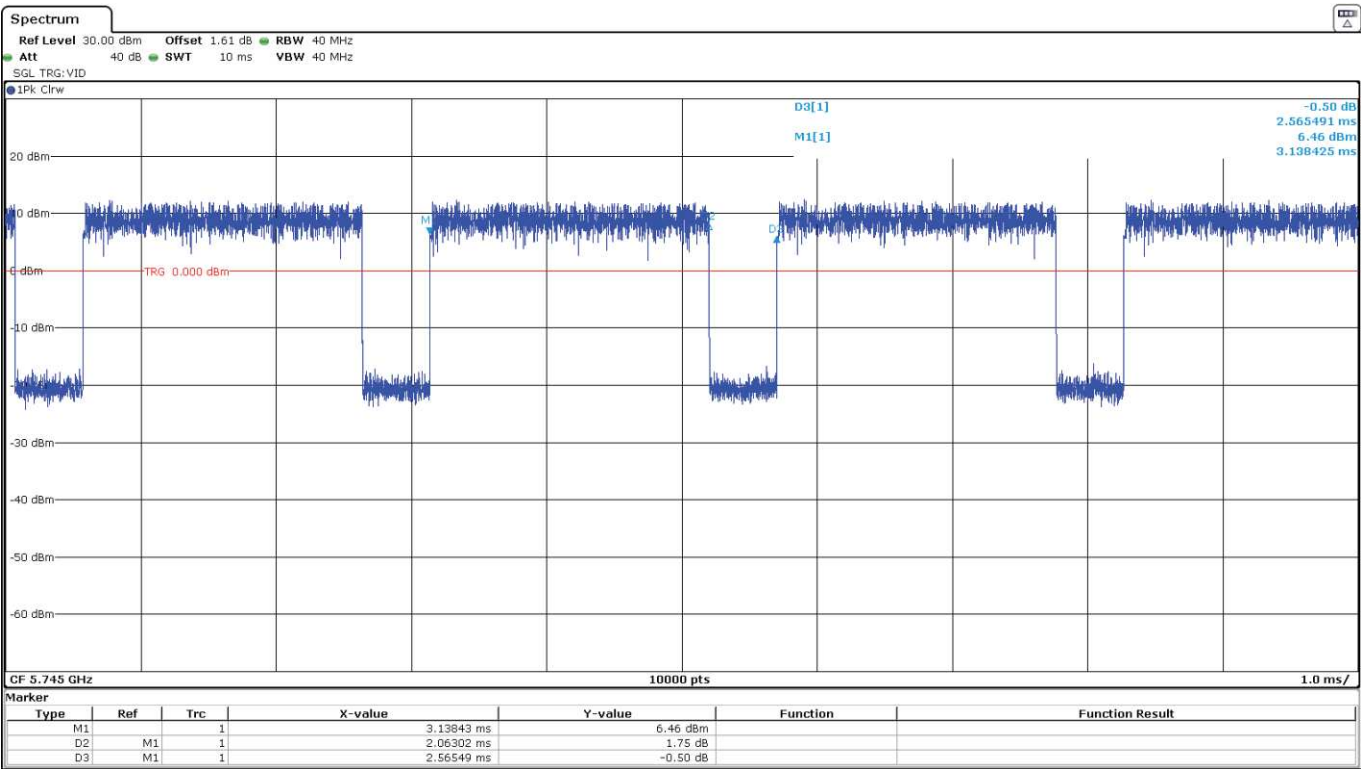
Mode	Port	Sub-band U-NII-1			Sub-band U-NII-3		
		Pulse Duration (ms)	Period (ms)	Duty Cycle Correction (dB)	Pulse Duration (ms)	Period (ms)	Duty Cycle Correction (dB)
802.11ac20	1	1.93242	2.433898	1.002008502	1.90202	2.433901	1.070876514
	4	1.93242	2.433561	1.001407131	1.90902	2.436901	1.060272296

SISO WLAN1_CORE-0_Port3:

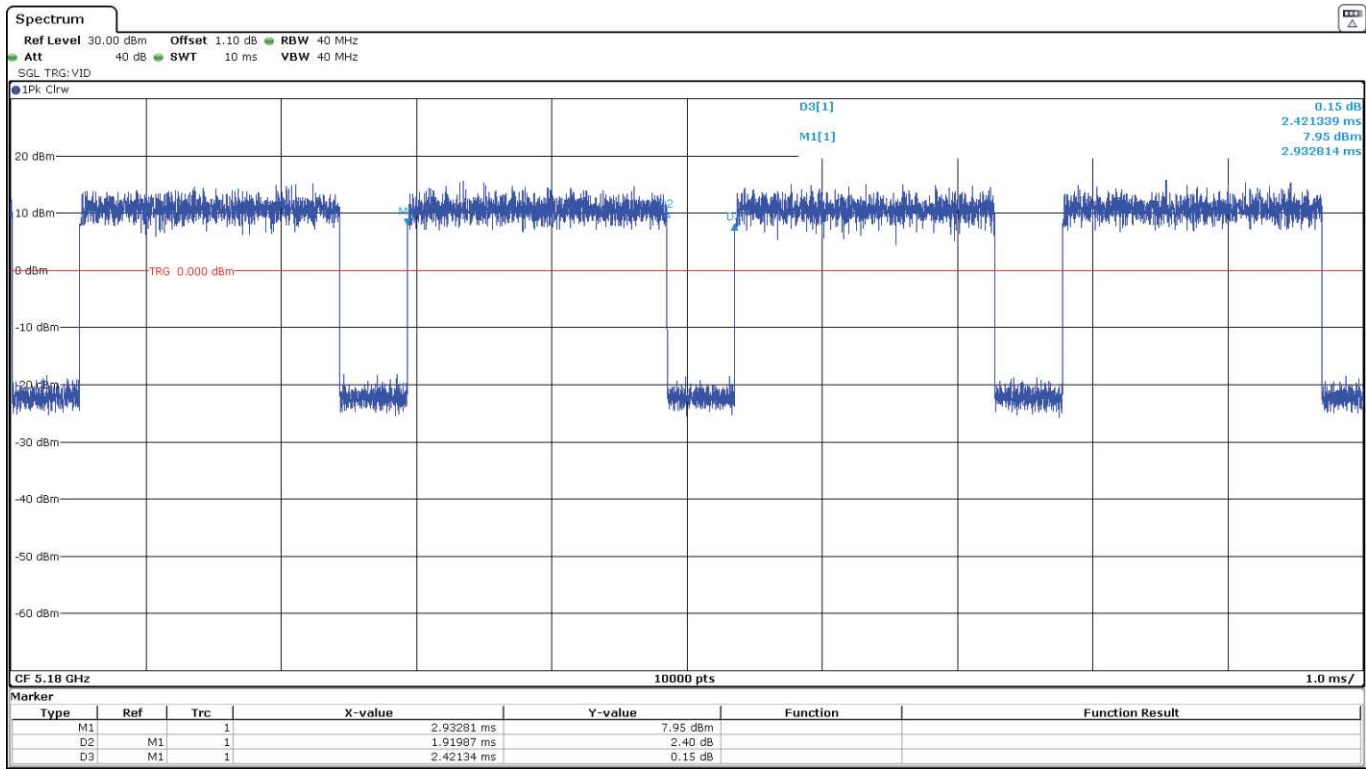
SISO 802.11 a20 (U-NII-1):



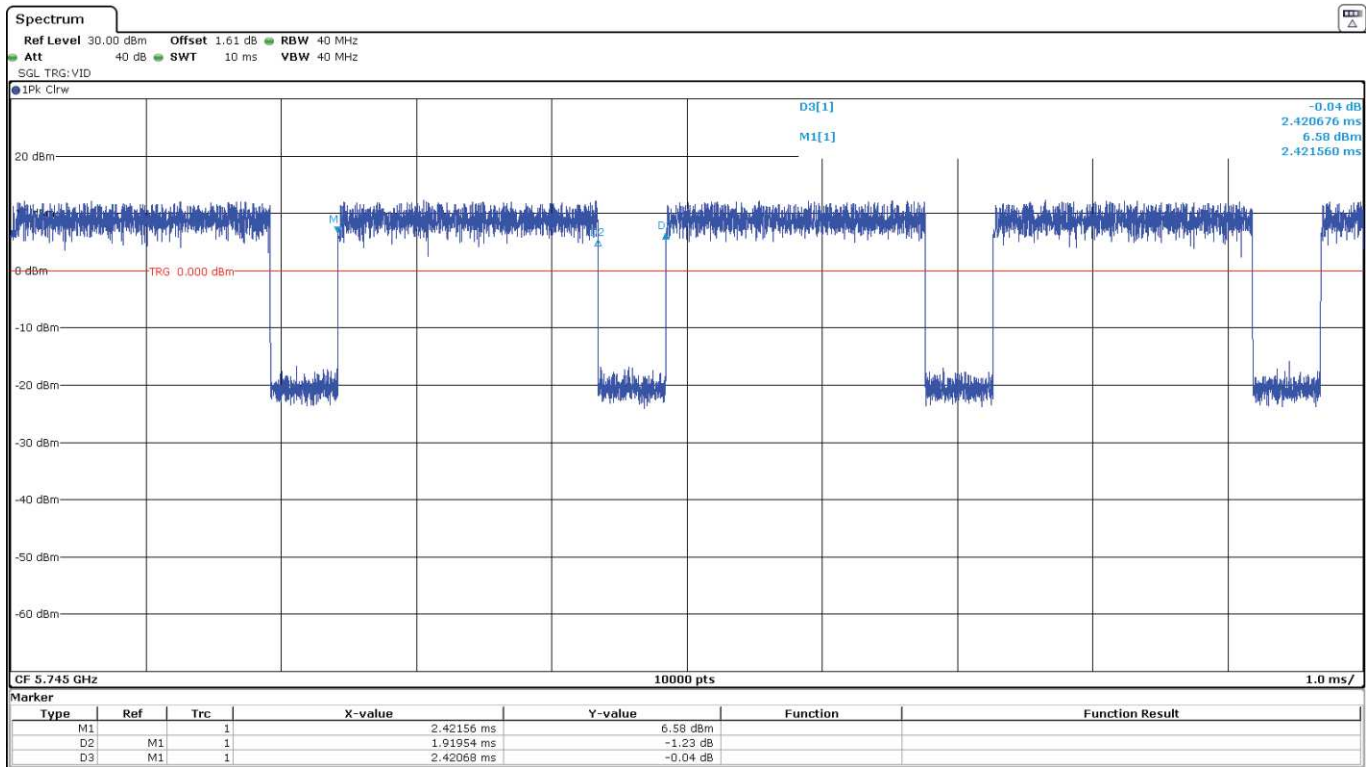
SISO 802.11 a20 (U-NII-3):



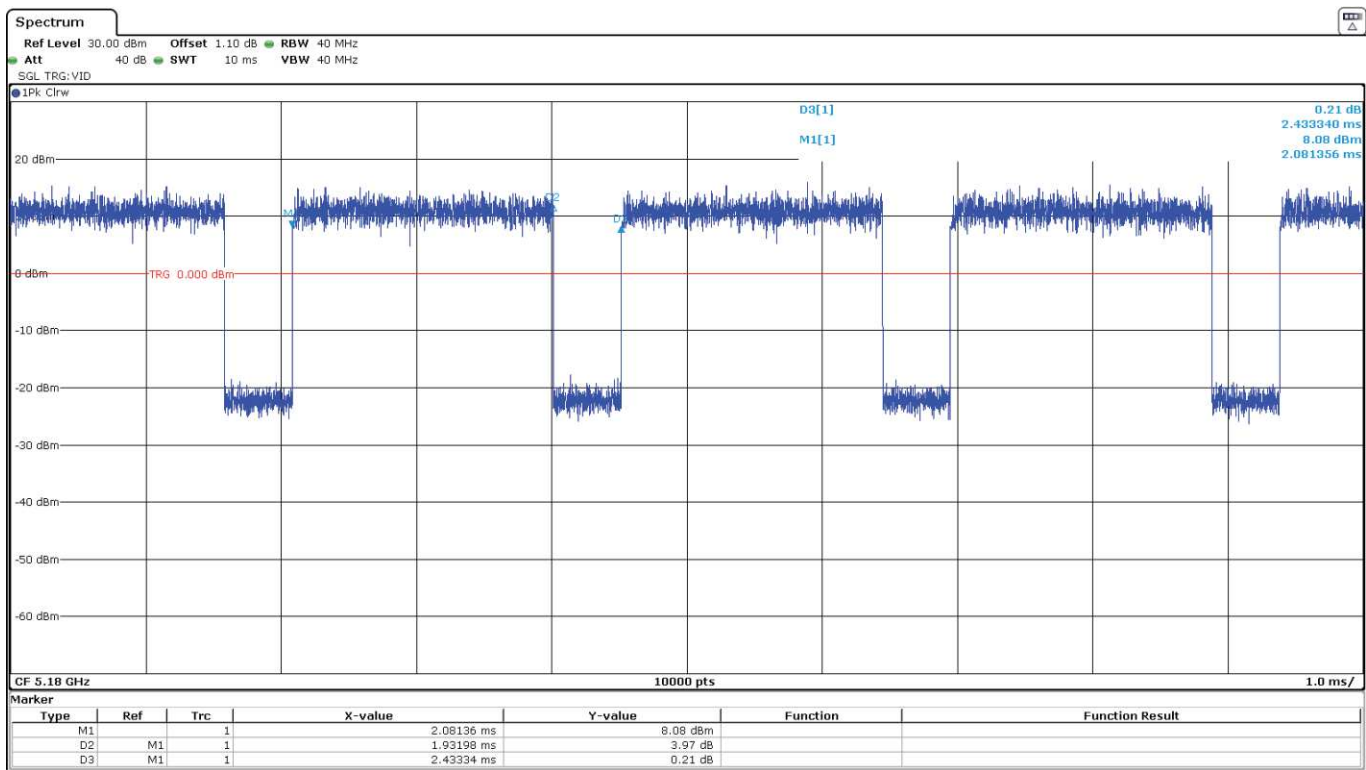
SISO 802.11 n20 (U-NII-1):



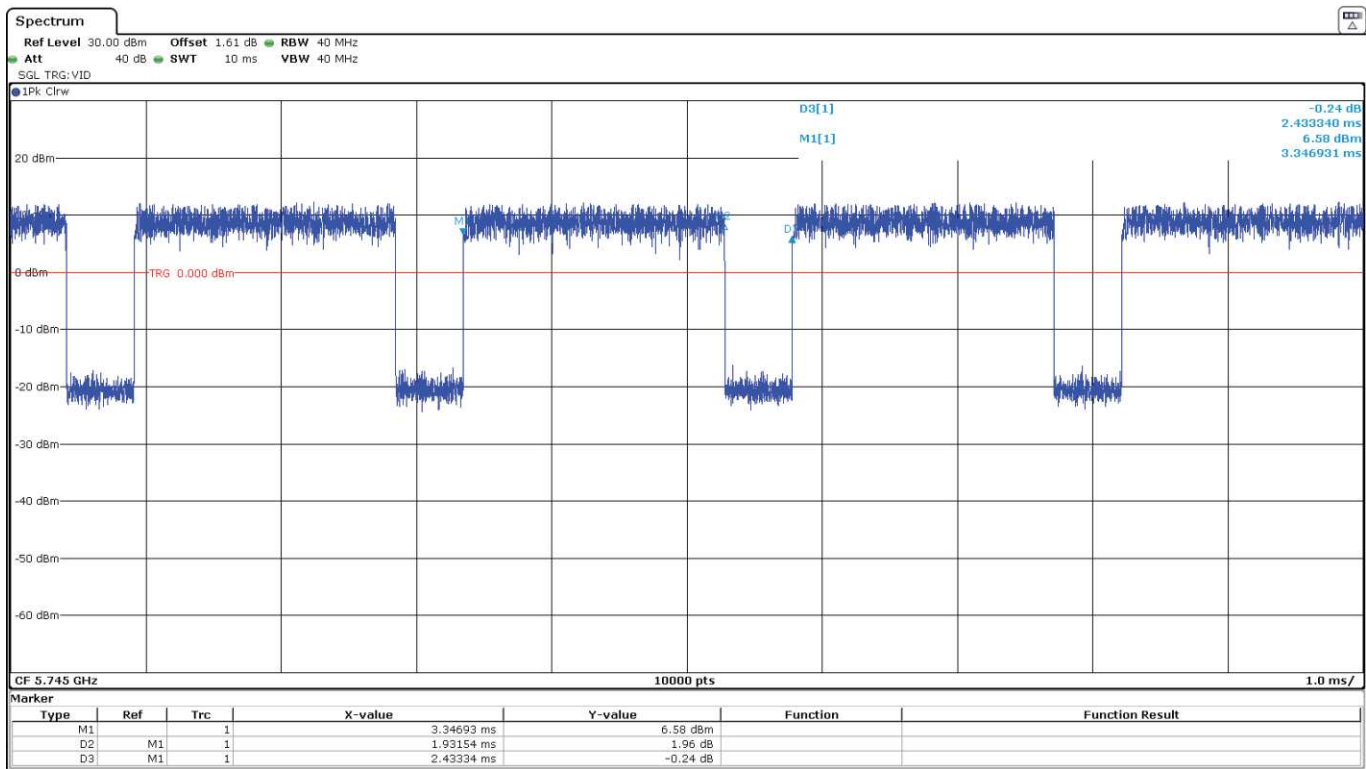
SISO 802.11 n20 (U-NII-3):



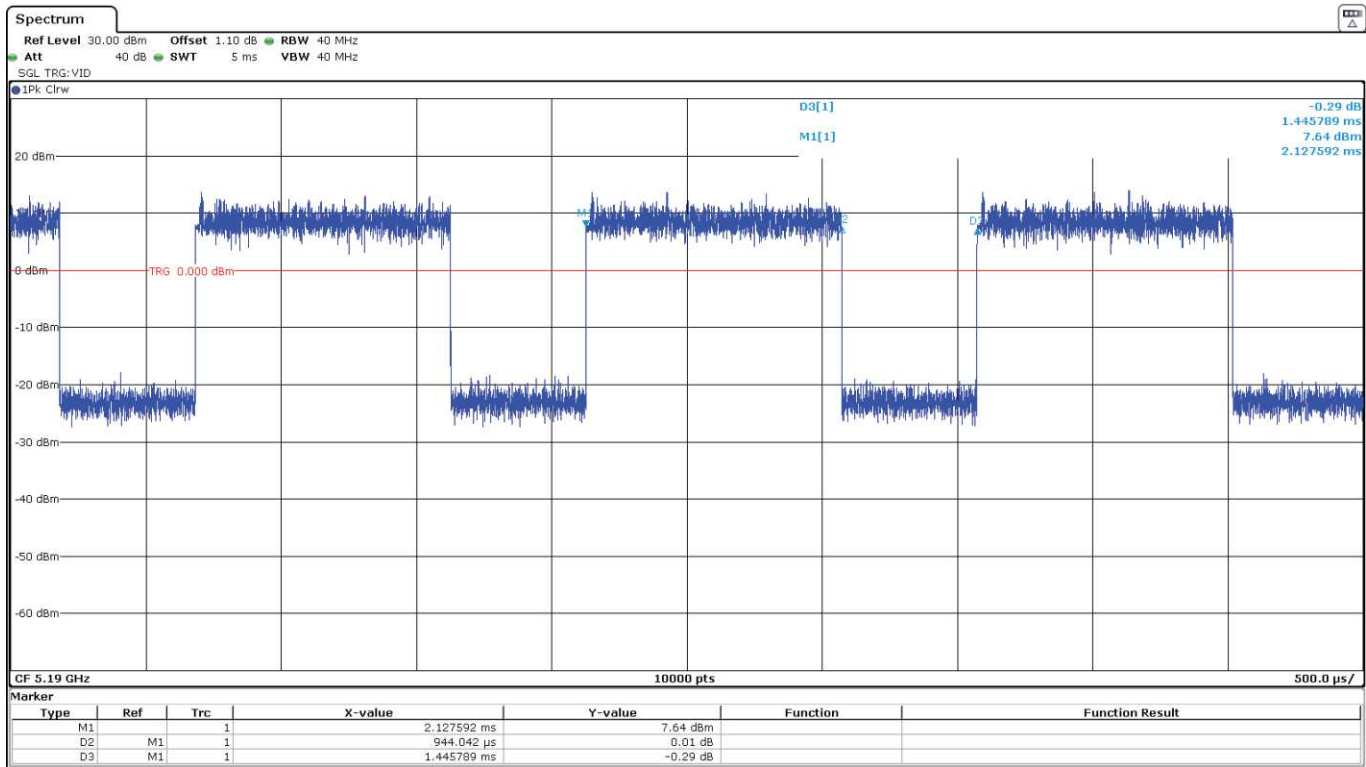
SISO 802.11 ac20 (U-NII-1):



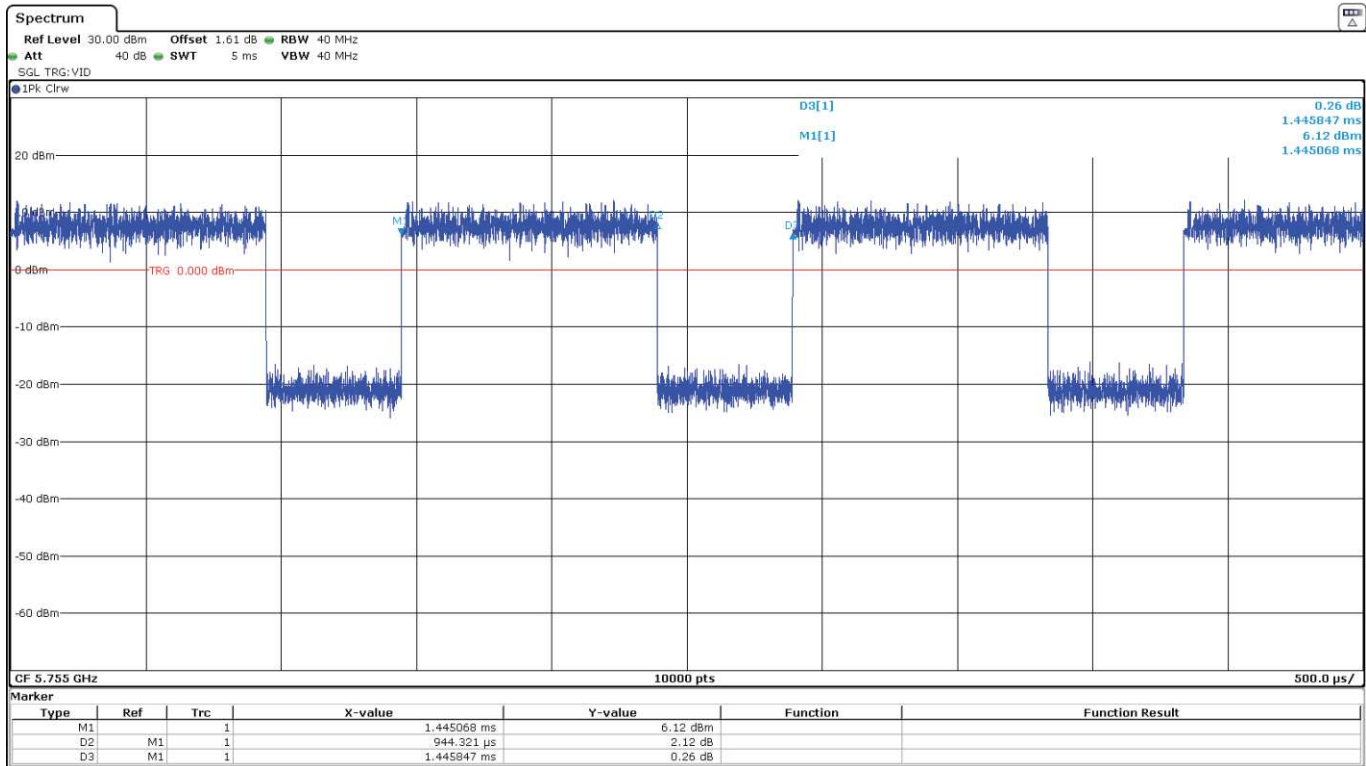
SISO 802.11 ac20 (U-NII-3):



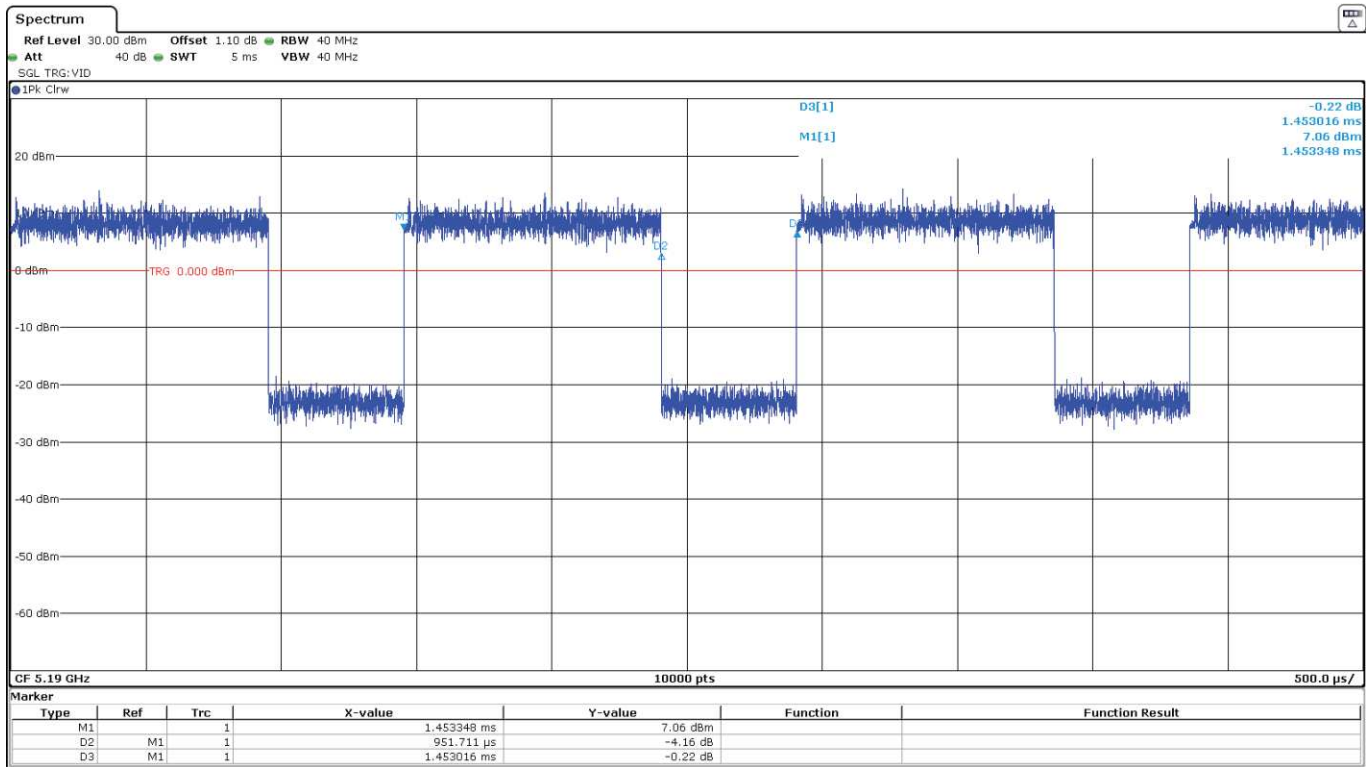
SISO 802.11 n40 (U-NII-1):



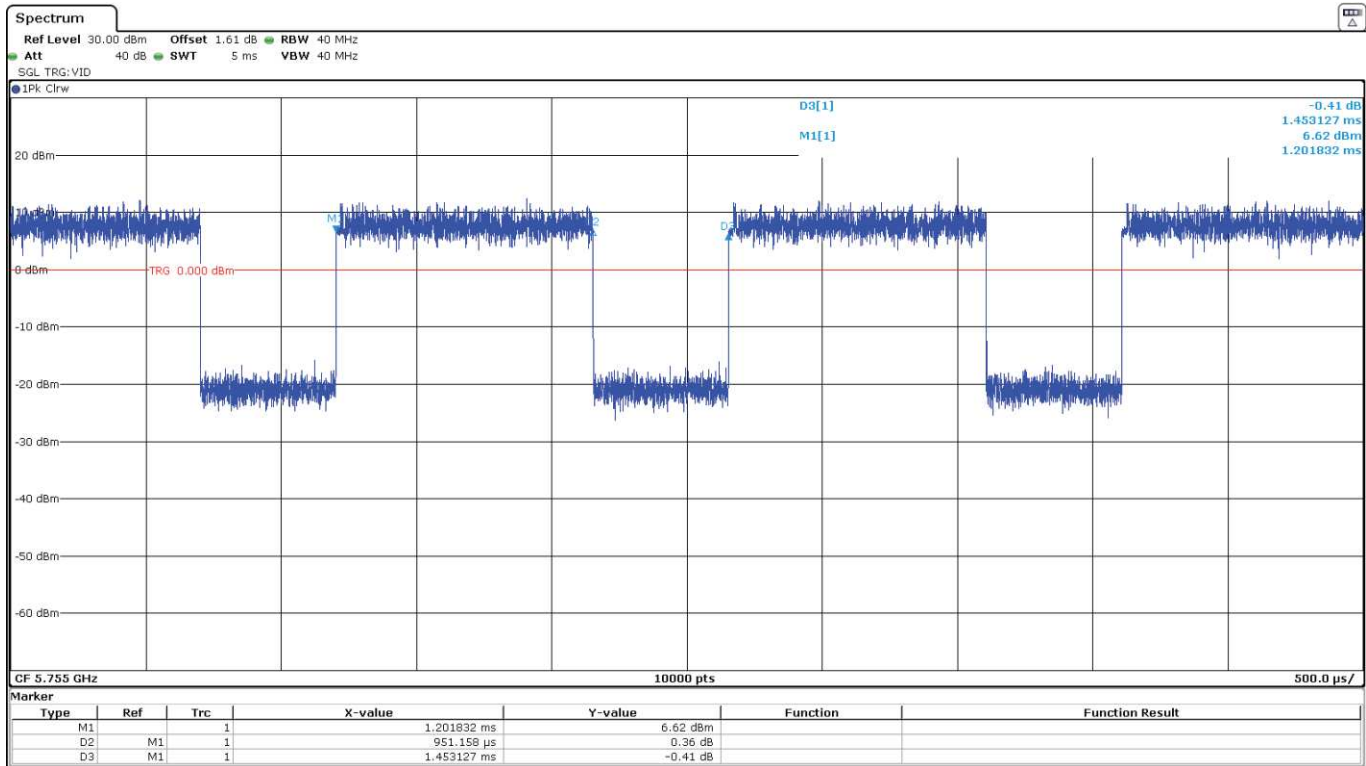
SISO 802.11 n40 (U-NII-3):



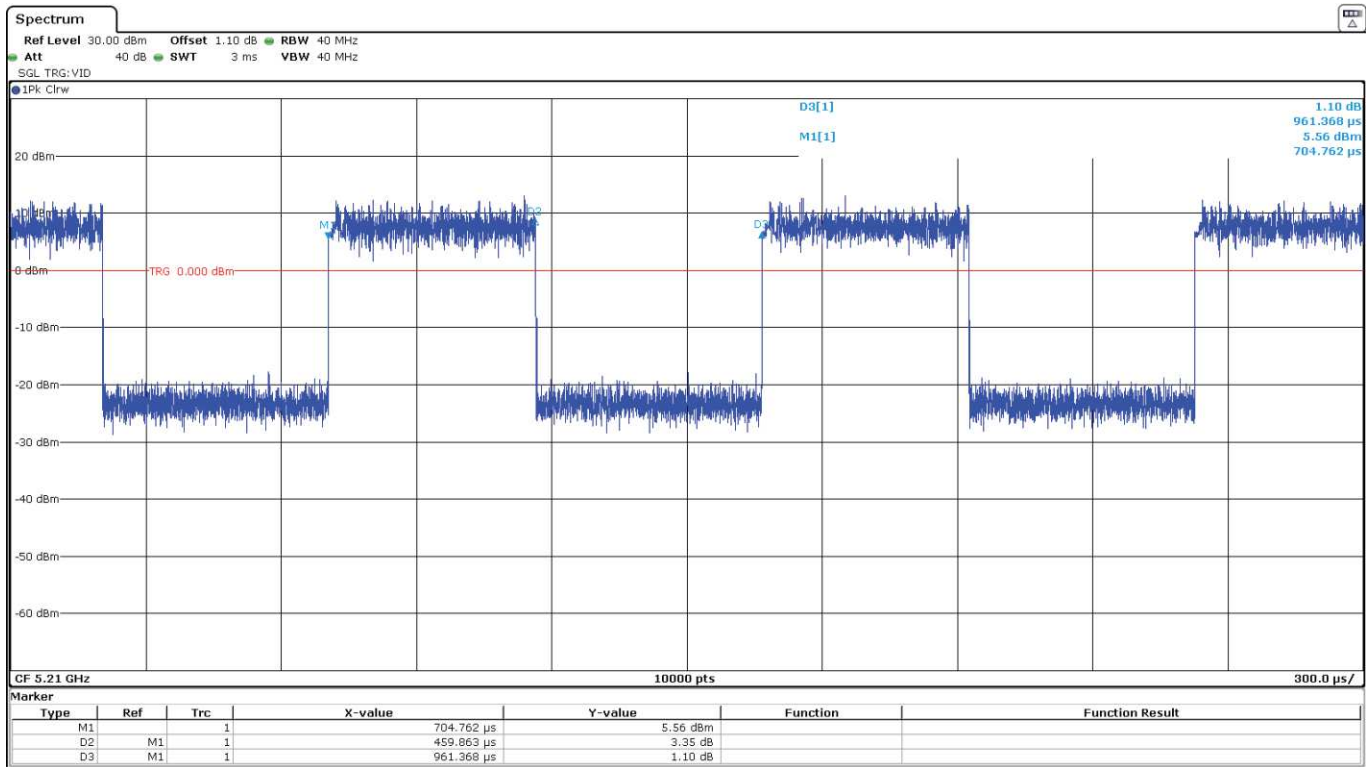
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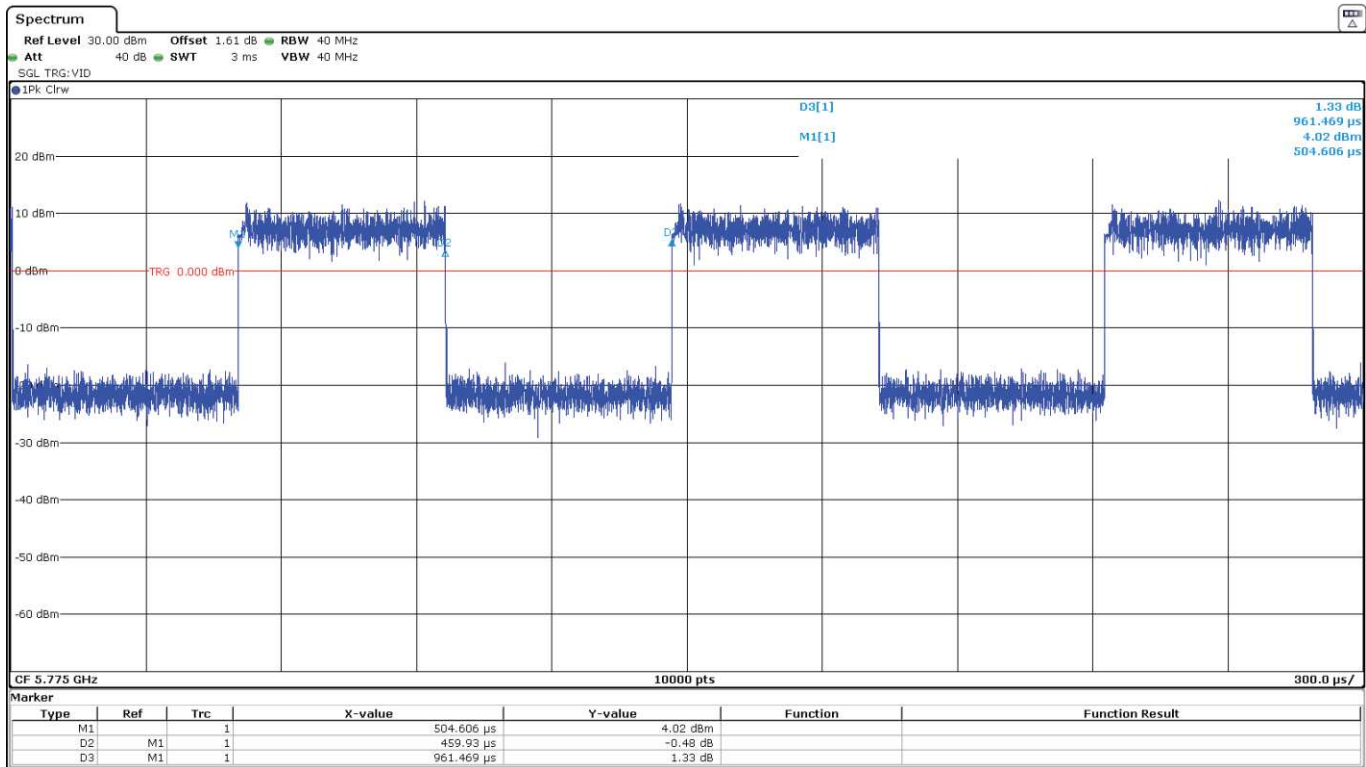
SISO 802.11 ac40 (U-NII-3):



SISO 802.11 ac80 (U-NII-1):



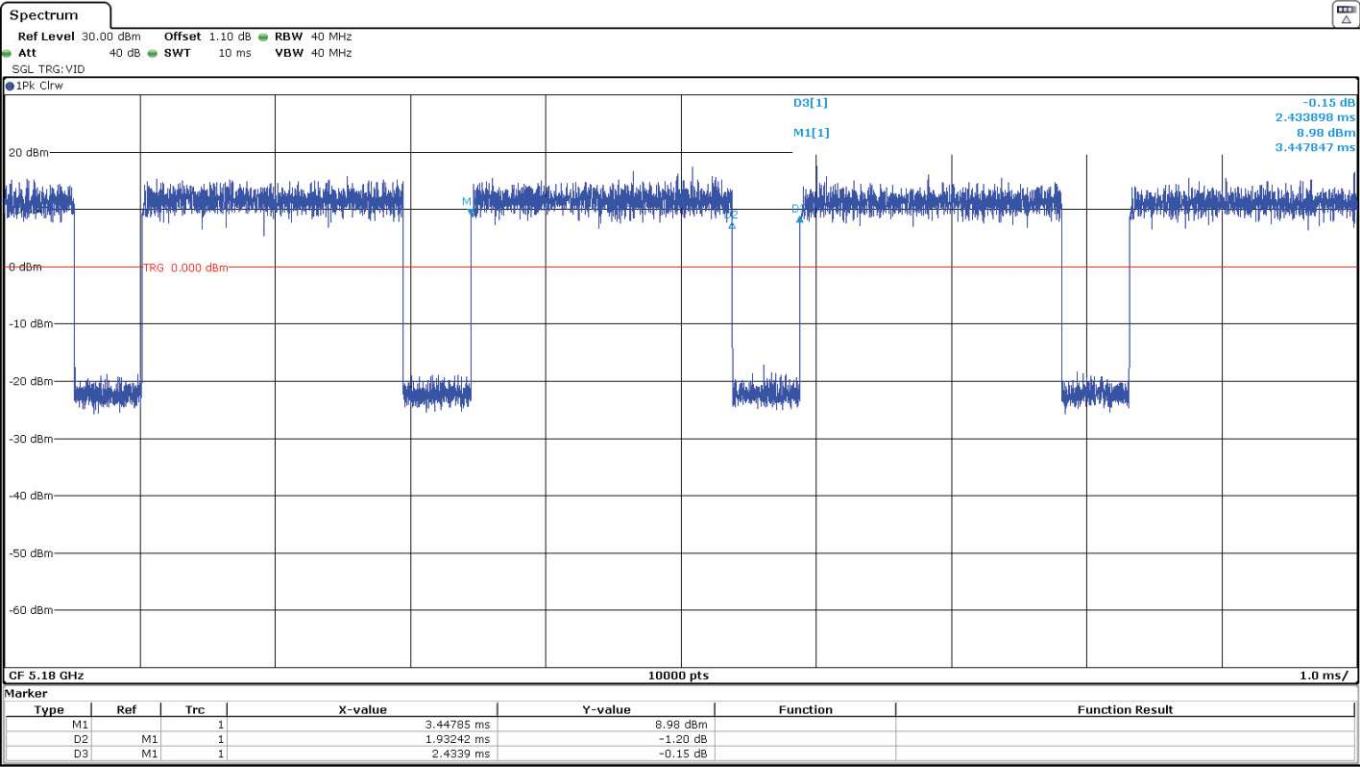
SISO 802.11 ac80 (U-NII-3):



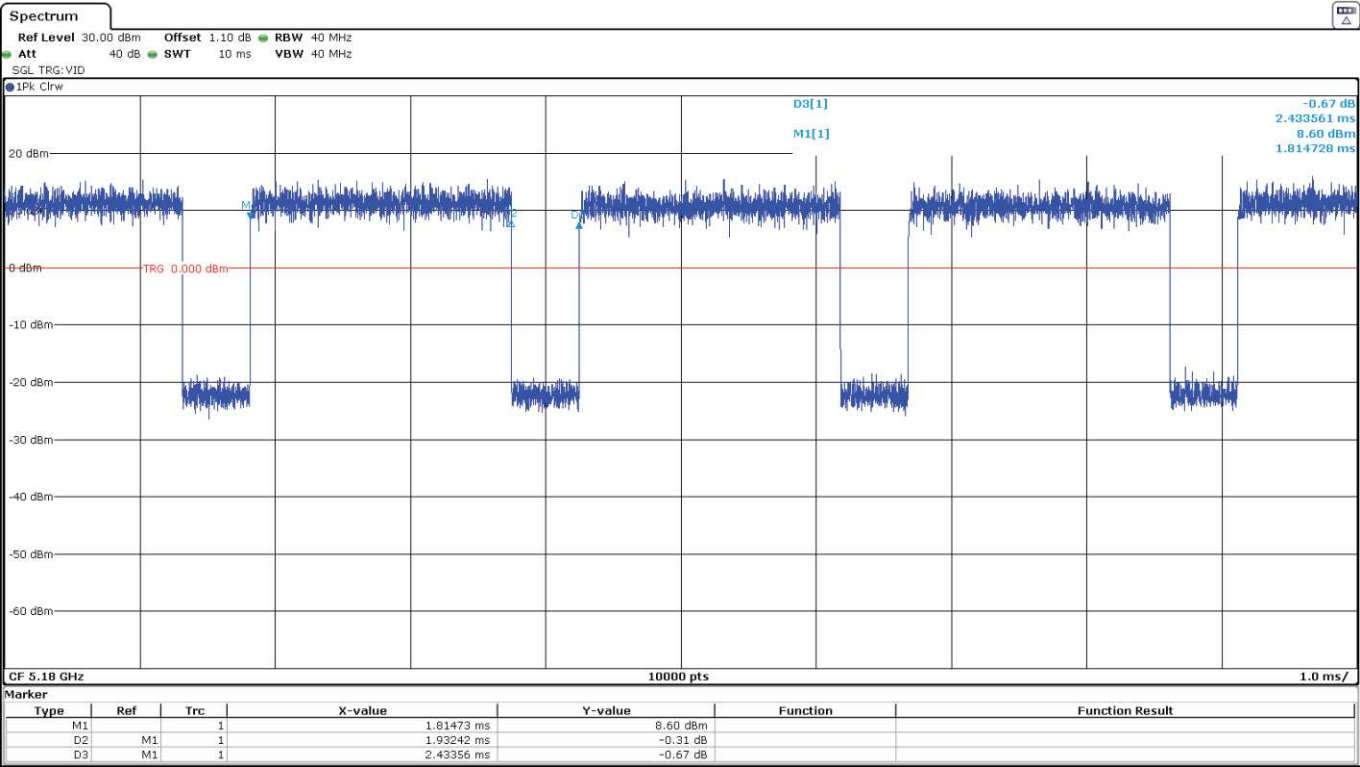
MIMO WLAN0_CORE-MIMO_Port1 & Port4:

MIMO 802.11 ac20 (U-NII-1):

Port 1:

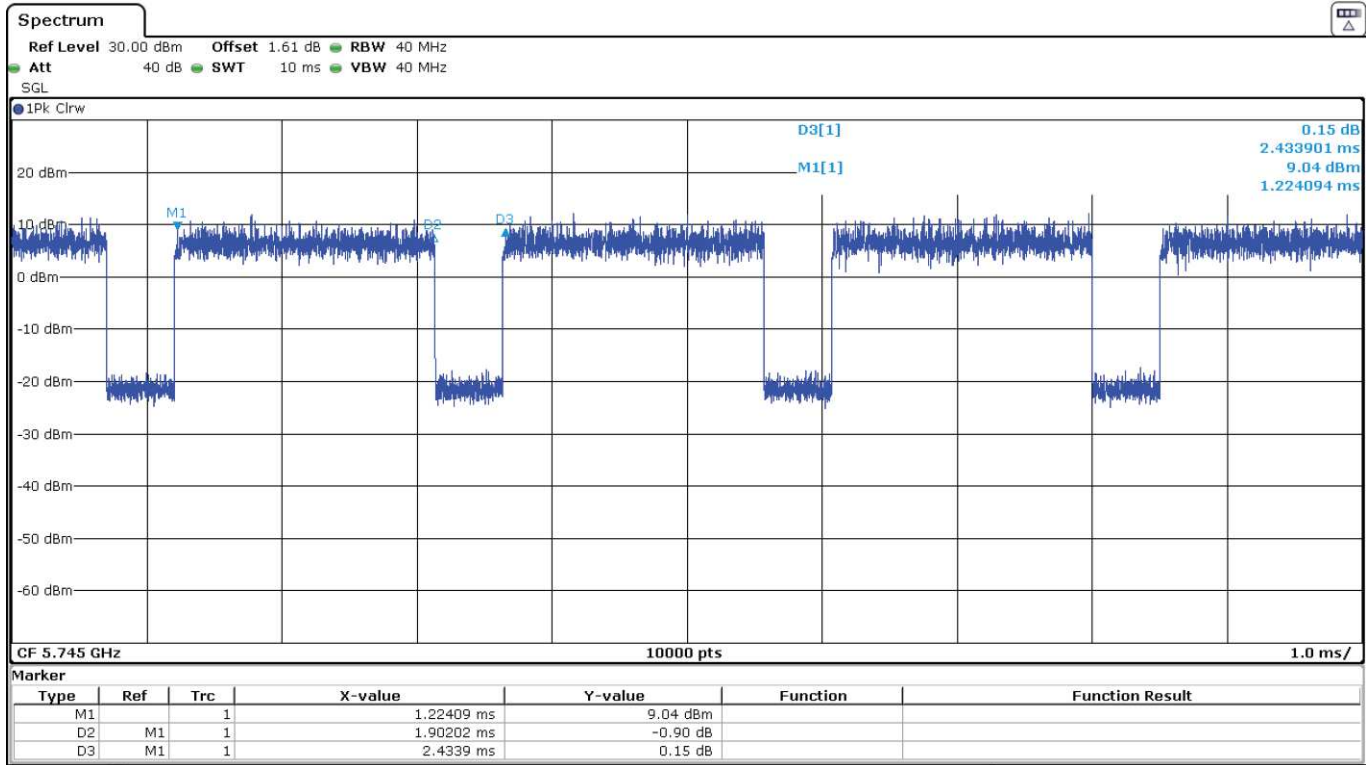


Port 4:

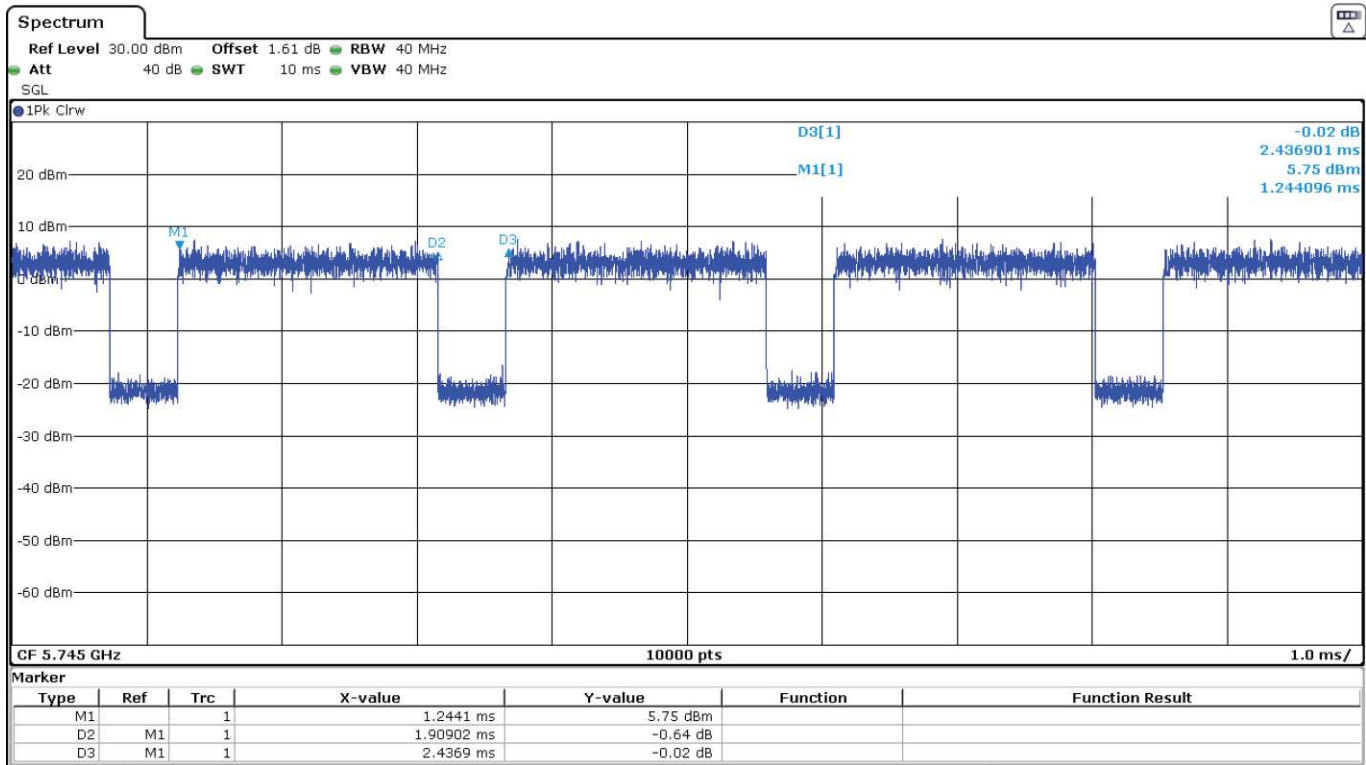


MIMO 802.11 ac20 (U-NII-3):

Port 1:



Port 4:



Transmitter 99% Occupied Bandwidth

RESULTS:

The following modes and data rates were selected based on preliminary testing that identified those corresponding to the worst cases:

- 802.11a: 6 Mbit/s.
- 802.11n HT20: MCS0.
- 802.11n HT40: MCS0.
- 802.11ac VHT80: MCS0

SISO worst case:

- Preliminary tests determined the SISO worst case: WLAN1_CORE-0_Port3.

SISO 802.11 a20:

U-NII-1 (5150-5250 MHz)

Channels	Low Channel 36 (5180 MHz)	Middle Channel 40 (5200 MHz)	High Channel 48 (5240 MHz)
99% Occupied Bandwidth (MHz)	17.080	17.032	16.972
Measurement uncertainty (kHz)	<±36.95		

U-NII-3 (5725-5850 MHz)

Channels	Low Channel 149 (5745 MHz)	Middle Channel 157 (5785 MHz)	High Channel 165 (5825 MHz)
99% Occupied Bandwidth (MHz)	17.096	17.024	17.064
Measurement uncertainty (kHz)	<±36.95		

SISO 802.11 n20 (HT20):

U-NII-1 (5150-5250 MHz)

Channels	Low Channel 36 (5180 MHz)	Middle Channel 40 (5200 MHz)	High Channel 48 (5240 MHz)
99% Occupied Bandwidth (MHz)	18.168	18.192	18.08
Measurement uncertainty (kHz)	<±36.95		

U-NII-3 (5725-5850 MHz)

Channels	Low Channel 149 (5745 MHz)	Middle Channel 157 (5785 MHz)	High Channel 165 (5825 MHz)
99% Occupied Bandwidth (MHz)	18.228	18.152	18.24
Measurement uncertainty (kHz)	<±36.95		

SISO 802.11 ac20:

U-NII-1 (5150-5250 MHz)

Channels	Low Channel 36 (5180 MHz)	Middle Channel 40 (5200 MHz)	High Channel 48 (5240 MHz)
99% Occupied Bandwidth (MHz)	18.440	18.176	18.036
Measurement uncertainty (kHz)	<±36.95		

U-NII-3 (5725-5850 MHz)

Channels	Low Channel 149 (5745 MHz)	Middle Channel 157 (5785 MHz)	High Channel 165 (5825 MHz)
99% Occupied Bandwidth (MHz)	18.180	18.152	18.236
Measurement uncertainty (kHz)	<±36.95		

SISO 802.11 n40 (HT40):

U-NII-1 (5150-5250 MHz)

Channels	Low Channel 38 (5190 MHz)	High Channel 46 (5230 MHz)
99% Occupied Bandwidth (MHz)	36.384	36.208
Measurement uncertainty (kHz)	<±62.36	

U-NII-3 (5725-5850 MHz)

Channels	Low Channel 151 (5755 MHz)	High Channel 159 (5795 MHz)
99% Occupied Bandwidth (MHz)	36.272	36.296
Measurement uncertainty (kHz)	<±62.36	

SISO 802.11 ac40 (HT40):

U-NII-1 (5150-5250 MHz)

Channels	Low Channel 38 (5190 MHz)	High Channel 46 (5230 MHz)
99% Occupied Bandwidth (MHz)	36.368	36.216
Measurement uncertainty (kHz)	<±62.36	

U-NII-3 (5725-5850 MHz)

Channels	Low Channel 151 (5755 MHz)	High Channel 159 (5795 MHz)
99% Occupied Bandwidth (MHz)	36.264	36.28
Measurement uncertainty (kHz)	<±62.36	

SISO 802.11 ac80 (VHT80):

U-NII-1 (5150-5250 MHz)

Channel	Single Channel 42 (5210 MHz)
99% Occupied Bandwidth (MHz)	76.368
Measurement uncertainty (kHz)	<±124.71

U-NII-3 (5725-5850 MHz)

Channel	Single Channel 155 (5775 MHz)
99% Occupied Bandwidth (MHz)	75.280
Measurement uncertainty (kHz)	<±124.71

MIMO worst case:

- Preliminary tests determined the MIMO worst case: WLAN0_CORE-MIMO_Port1 & Port4.

MIMO 802.11 ac20 (VHT20):

U-NII-1 (5150-5250 MHz):

Channels	Low Channel 36 (5180 MHz)		Middle Channel 40 (5200 MHz)		High Channel 48 (5240 MHz)	
	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4
99% Occupied Bandwidth (MHz)	18.084	17.836	18.140	17.880	18.148	17.864
Measurement uncertainty (kHz)	<±36.95					

U-NII-3 (5725-5850 MHz):

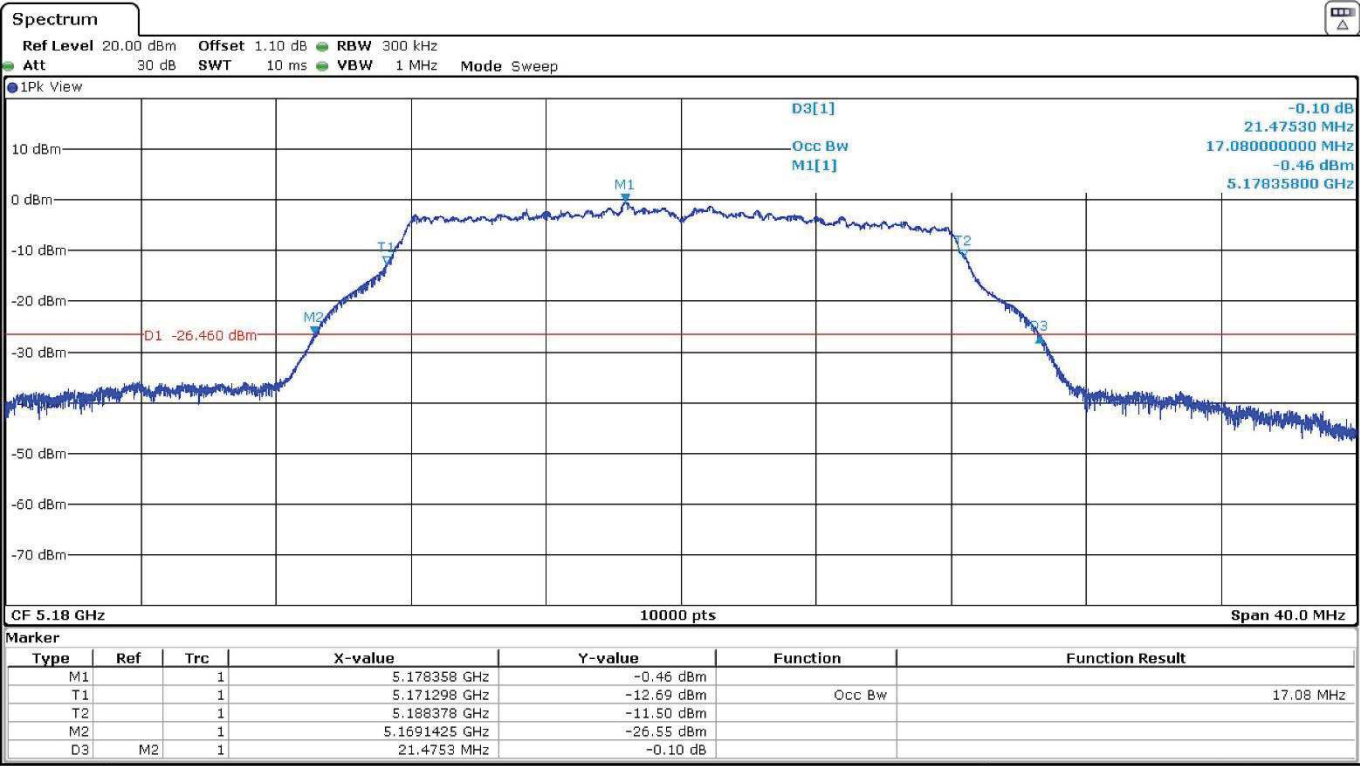
Channels	Low Channel 149 (5745 MHz)		Middle Channel 157 (5785 MHz)		High Channel 165 (5825 MHz)	
	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4	WLAN0_COR E- MIMO_Port1	WLAN0_COR E- MIMO_Port4
99% Occupied Bandwidth (MHz)	18.140	17.956	18.136	17.896	18.084	17.836
Measurement uncertainty (kHz)	<±36.95					

SISO worst case:

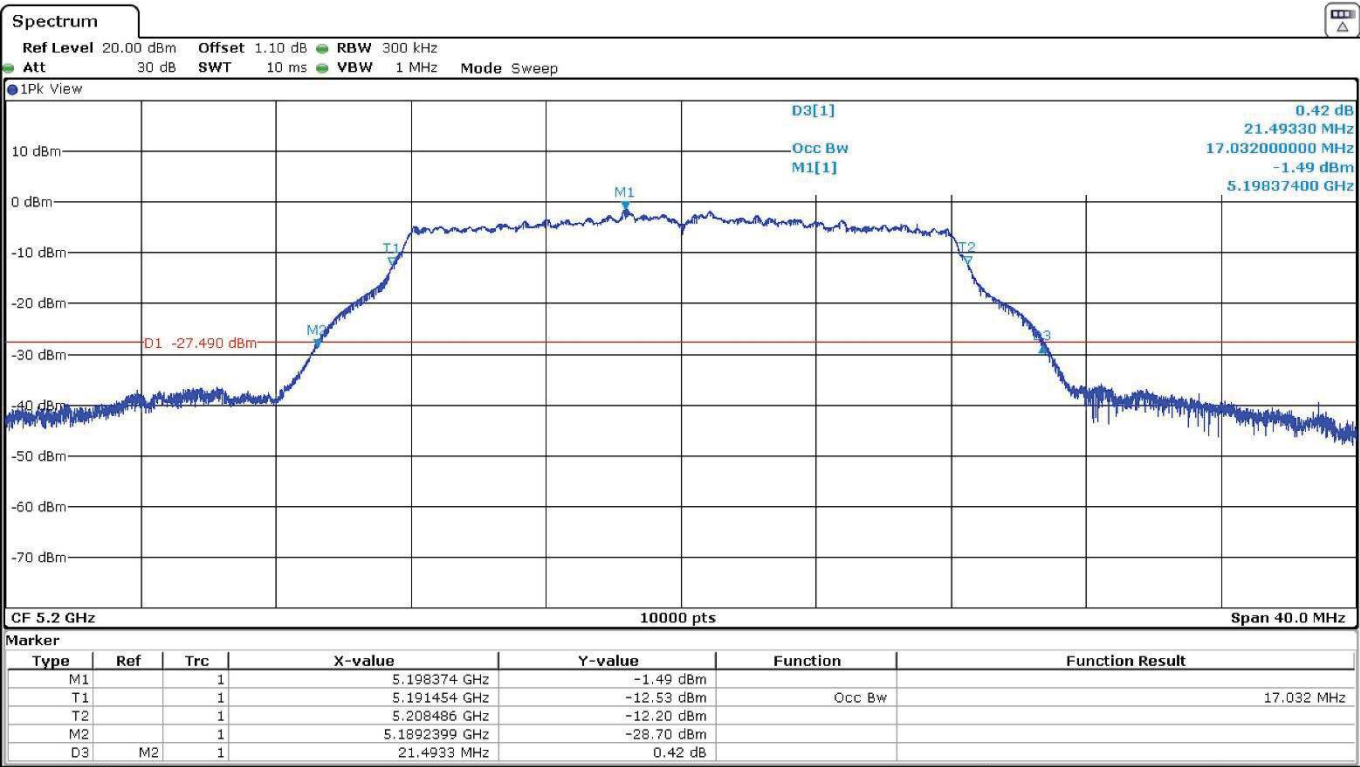
SISO 802.11 a20:

U-NII-1 (5150-5250 MHz)

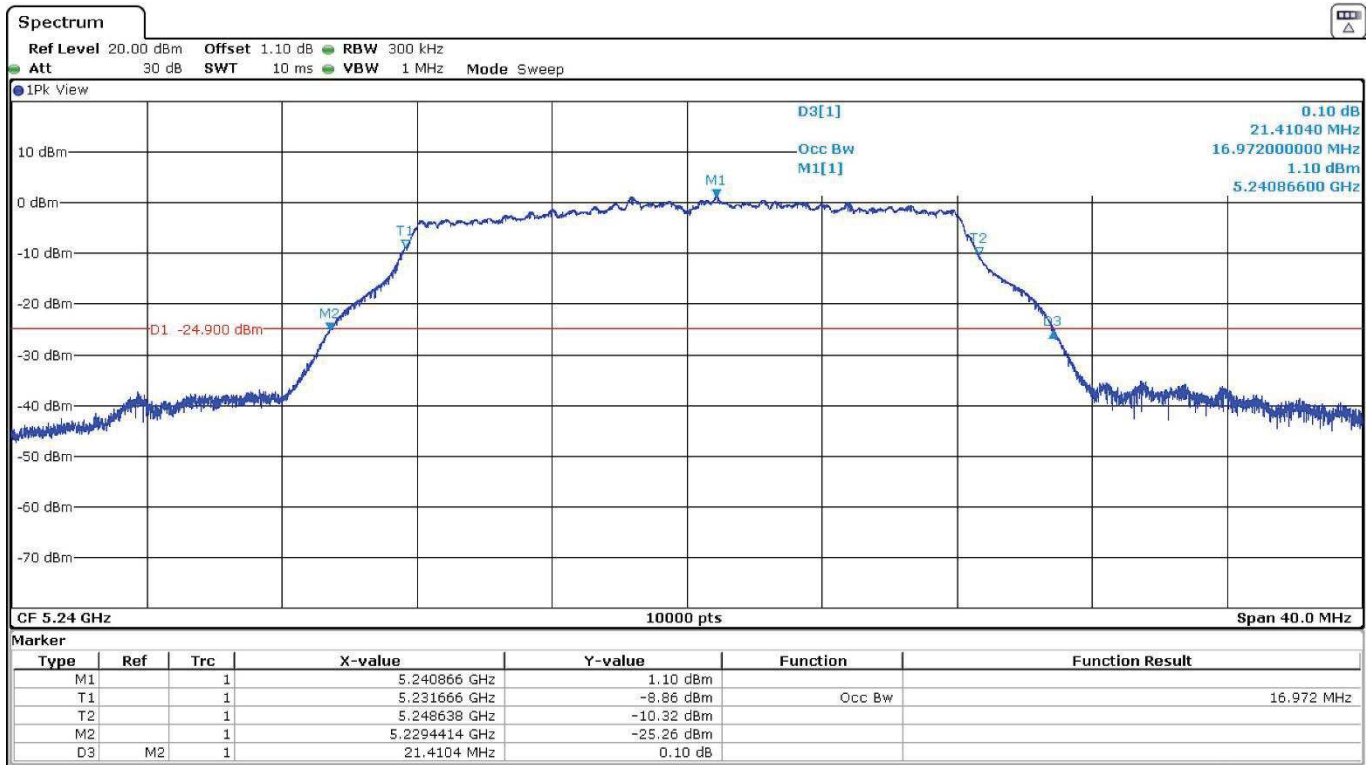
- Low Channel 36 (5180 MHz):



- Middle Channel 40 (5200 MHz):

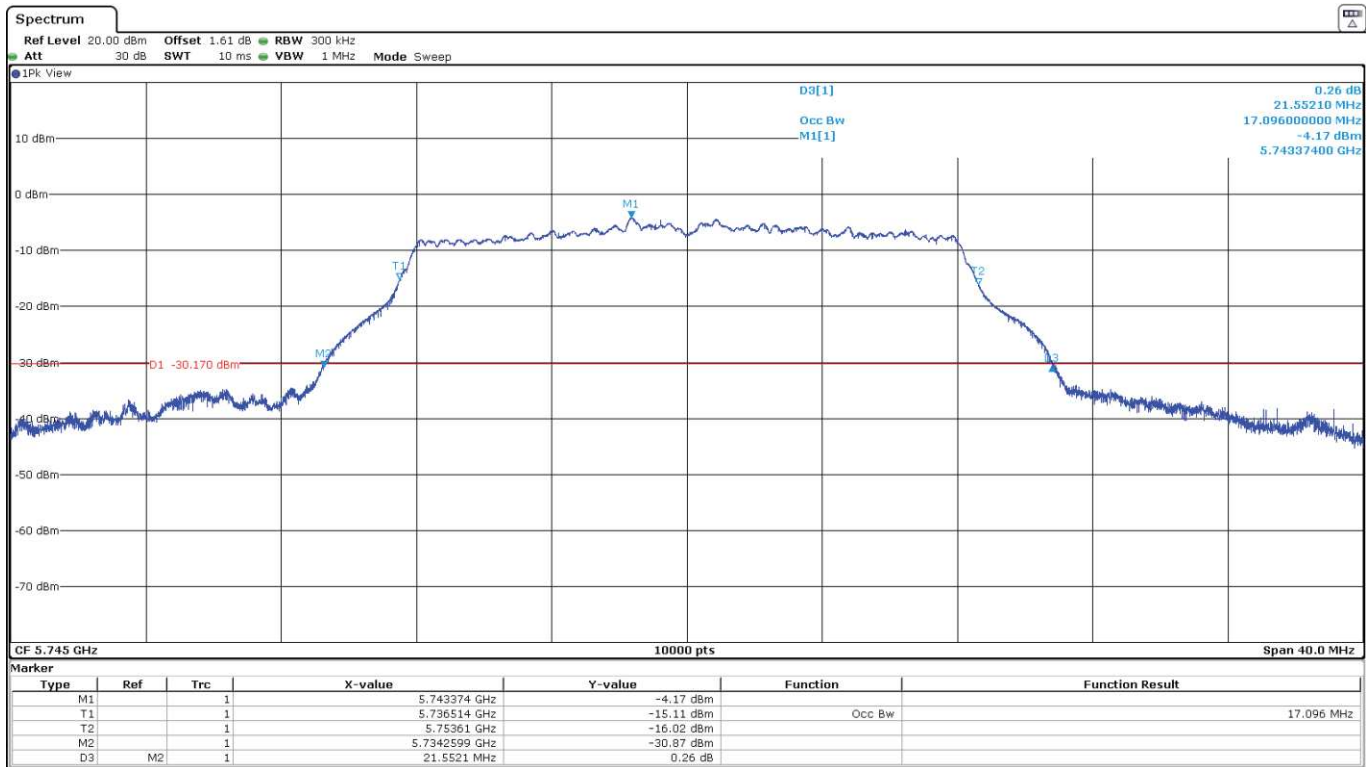


- High Channel 48 (5240 MHz):

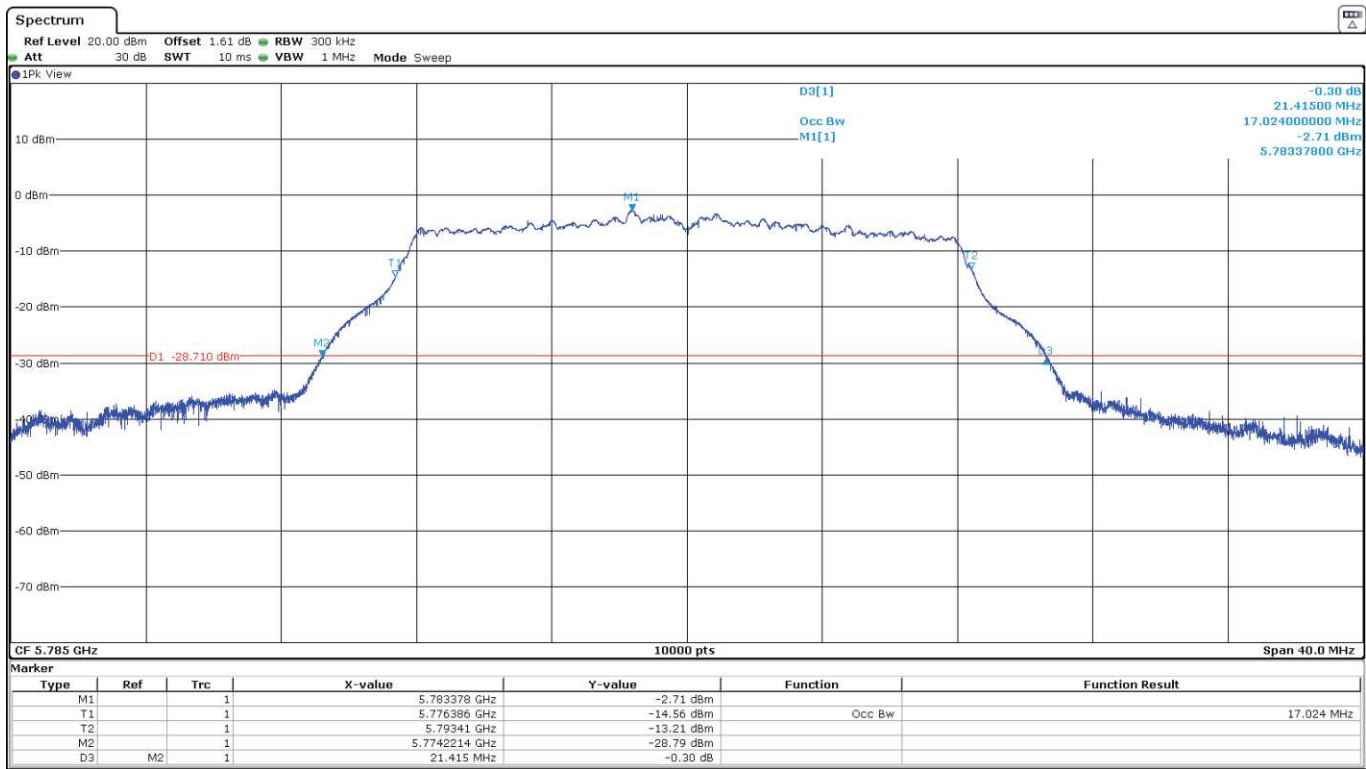


U-NII-3 (5725-5850 MHz)

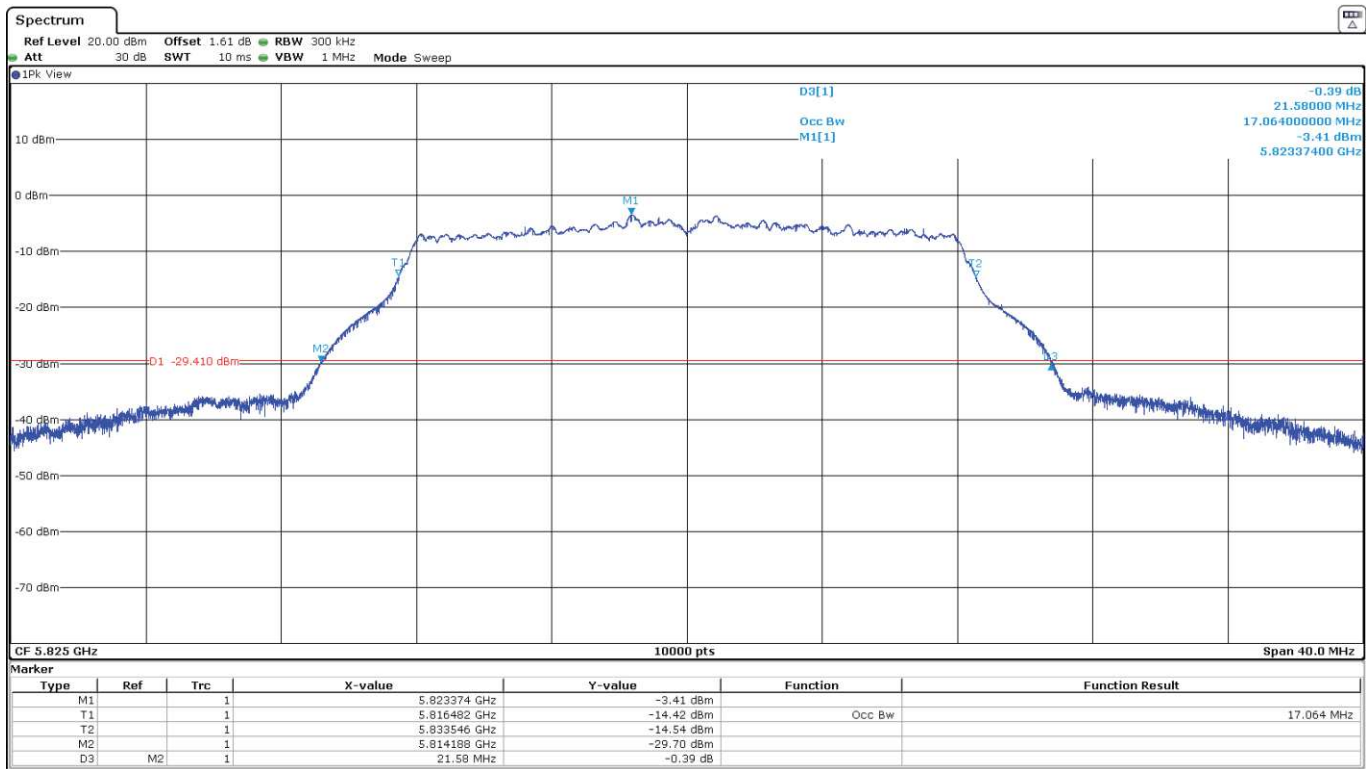
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



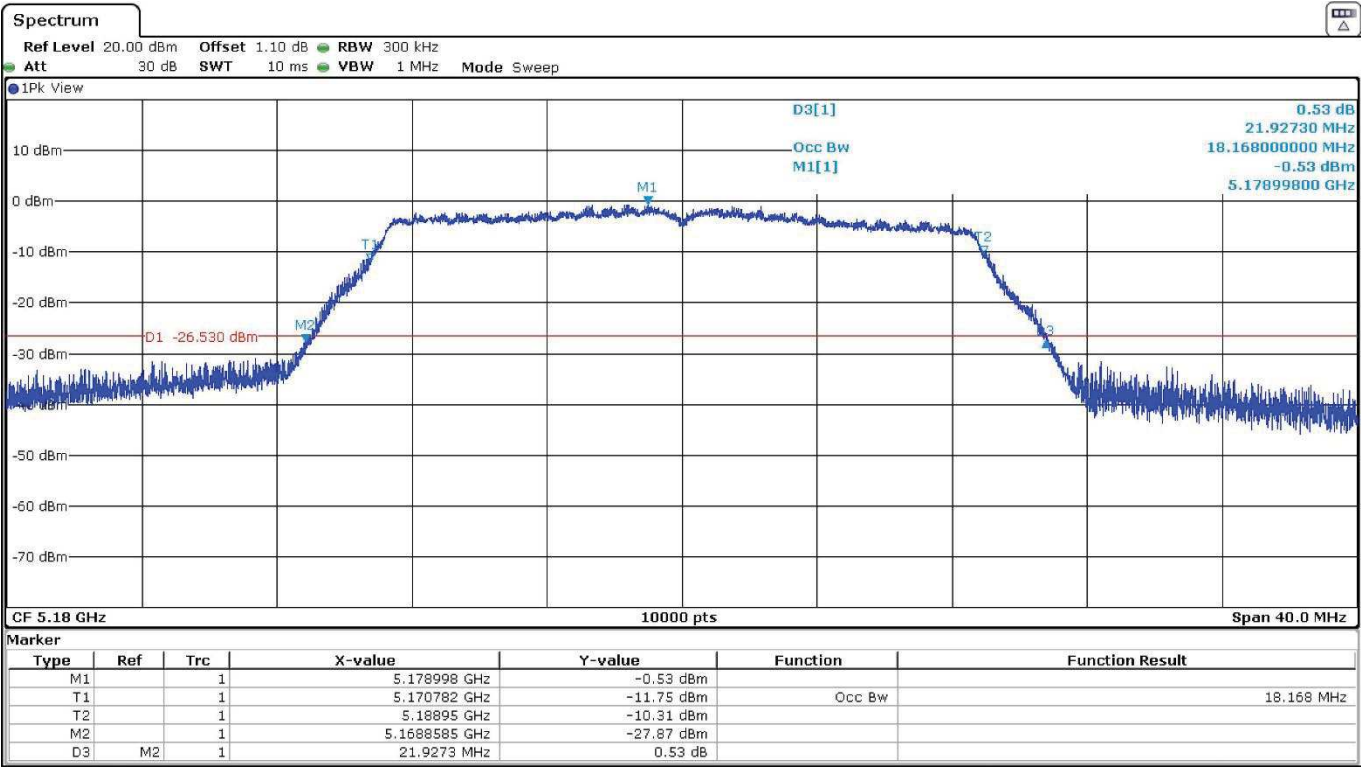
- High Channel 165 (5825 MHz):



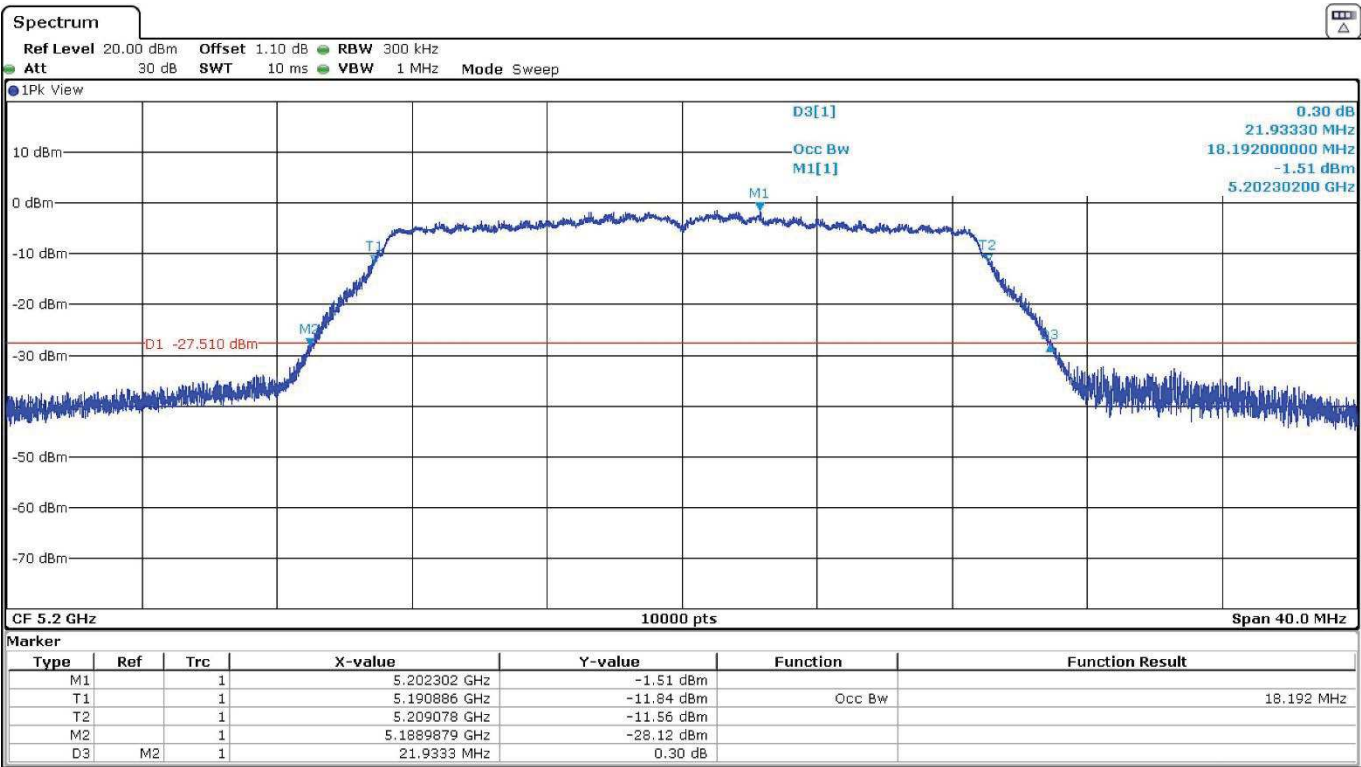
SISO 802.11 n20 HT20:

U-NII-1 (5150-5250 MHz)

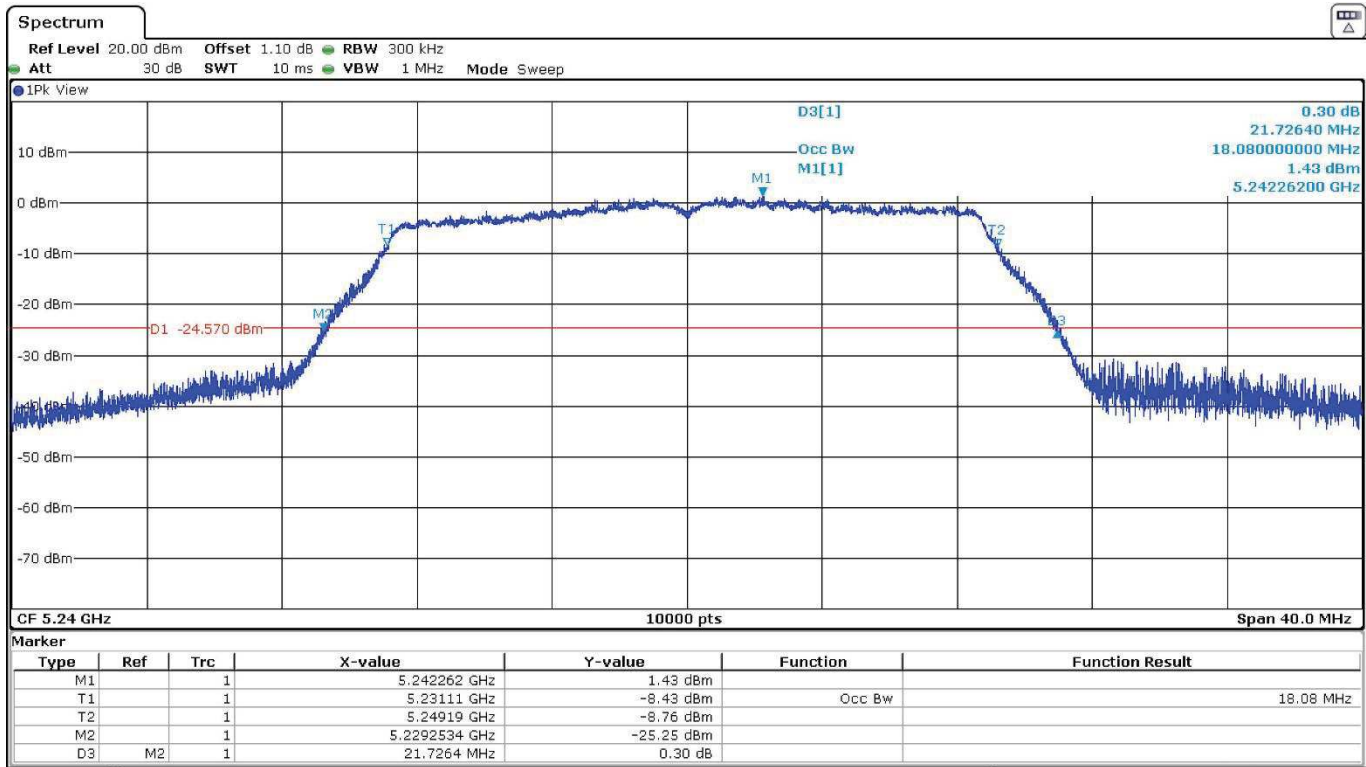
- Low Channel 36 (5180 MHz):



- Middle Channel 40 (5200 MHz):

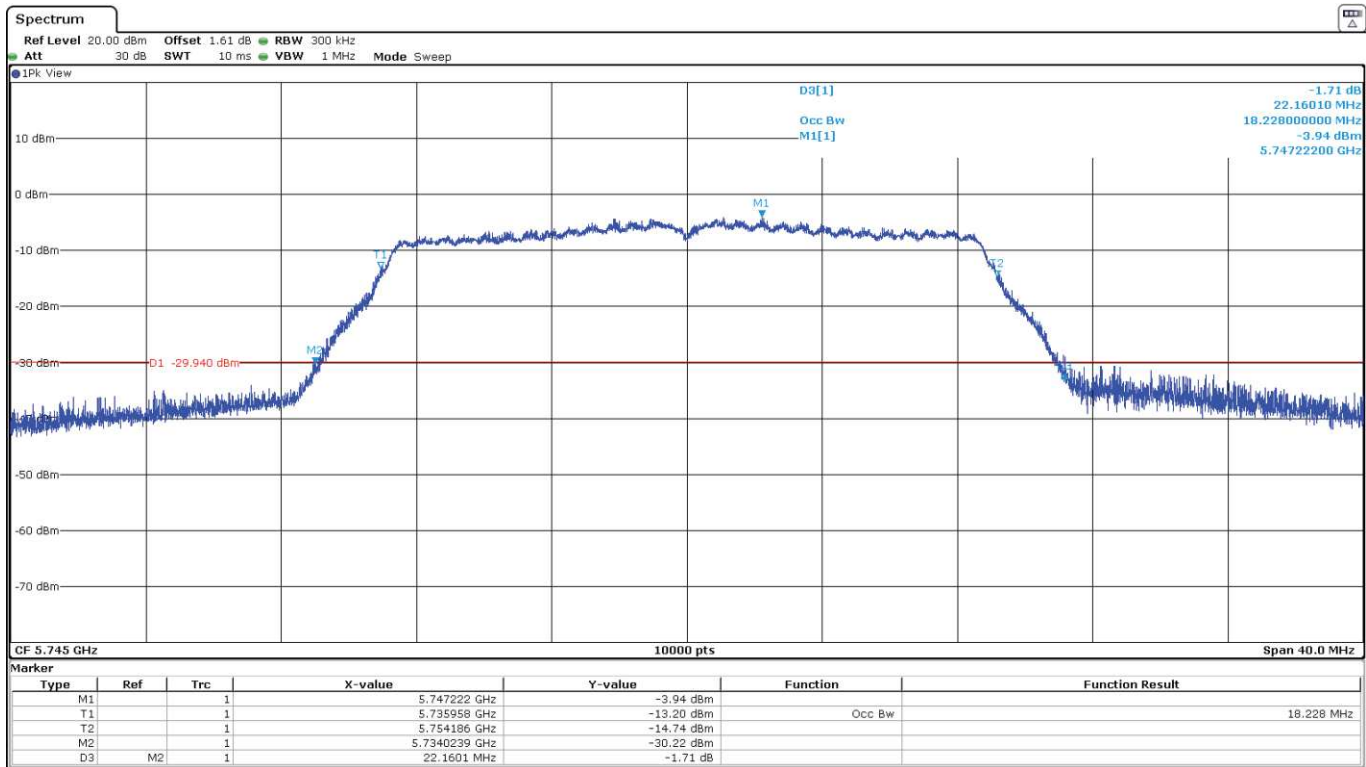


- High Channel 48 (5240 MHz):

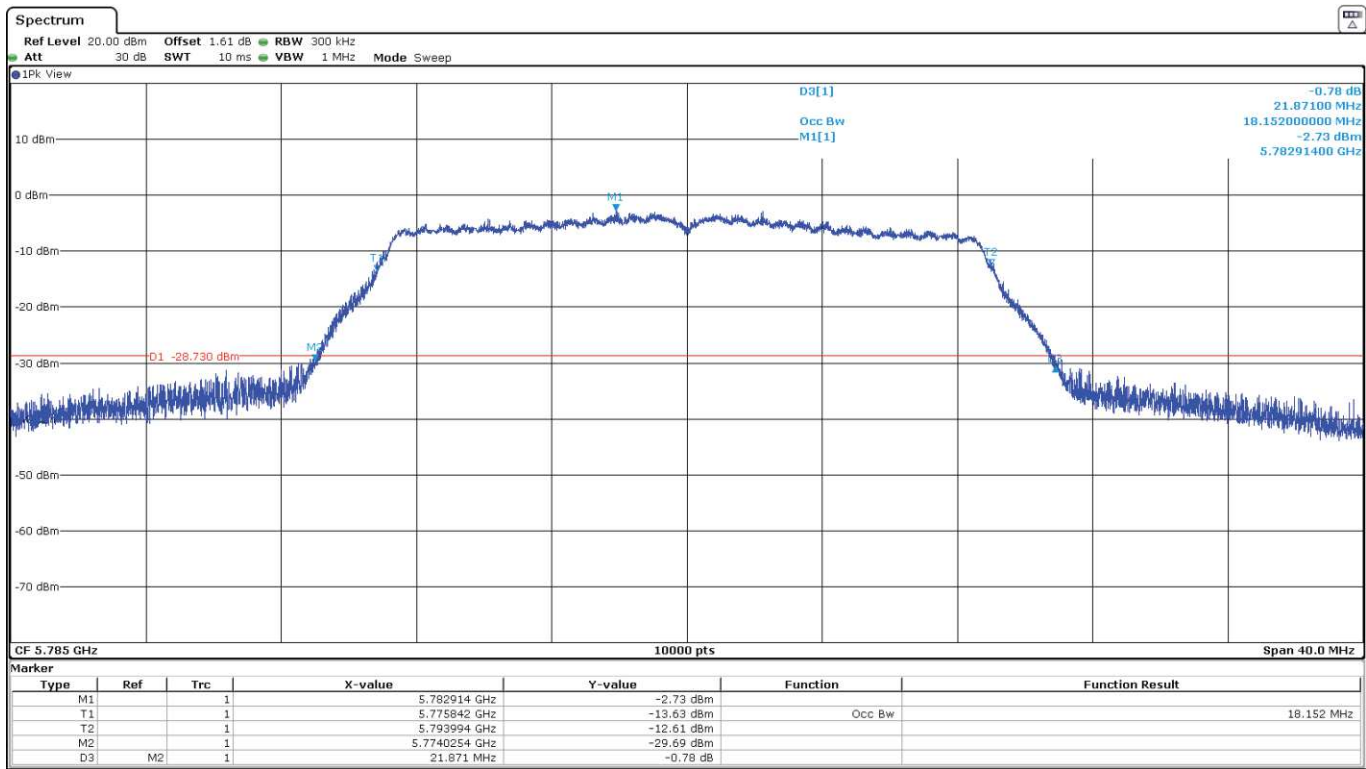


U-NII-3 (5725-5850 MHz)

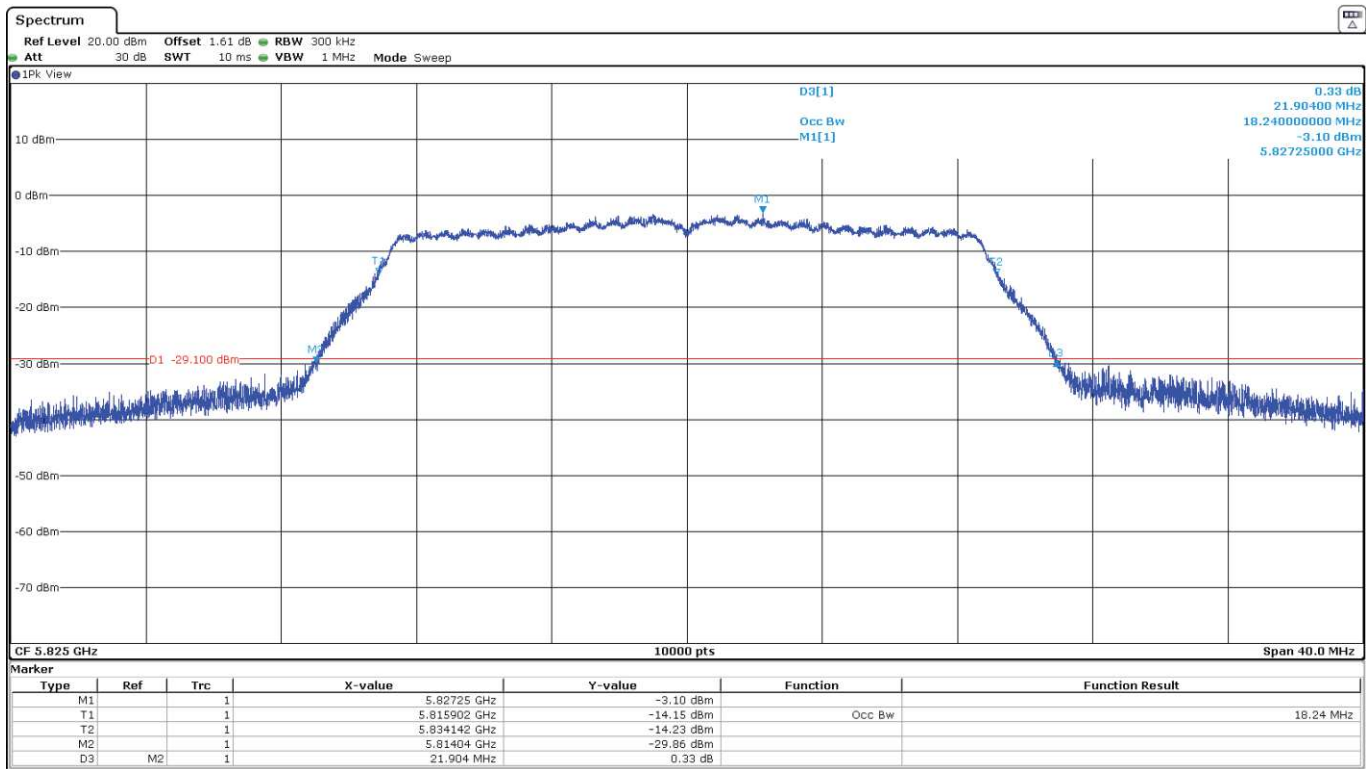
- Low Channel 149 (5745 MHz):



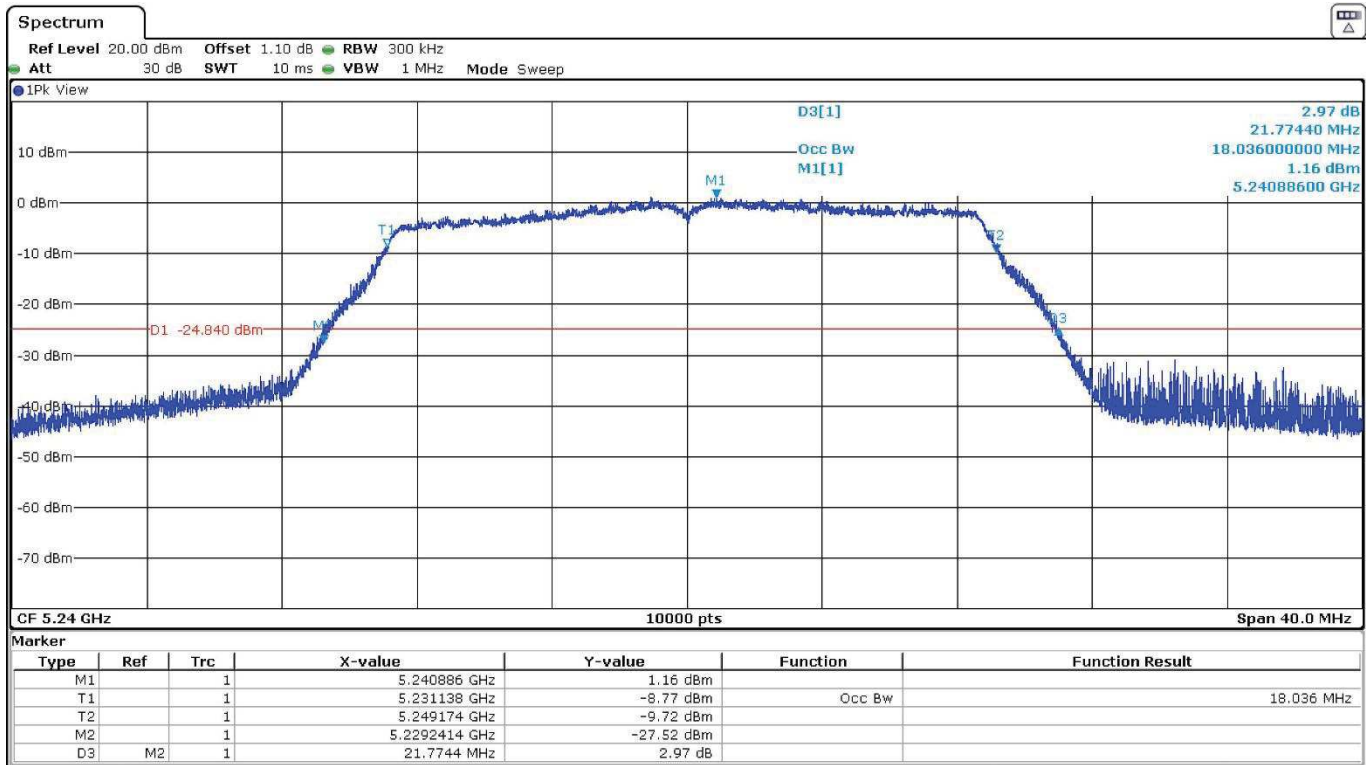
- Middle Channel 157 (5785 MHz):



- High Channel 165 (5825 MHz):

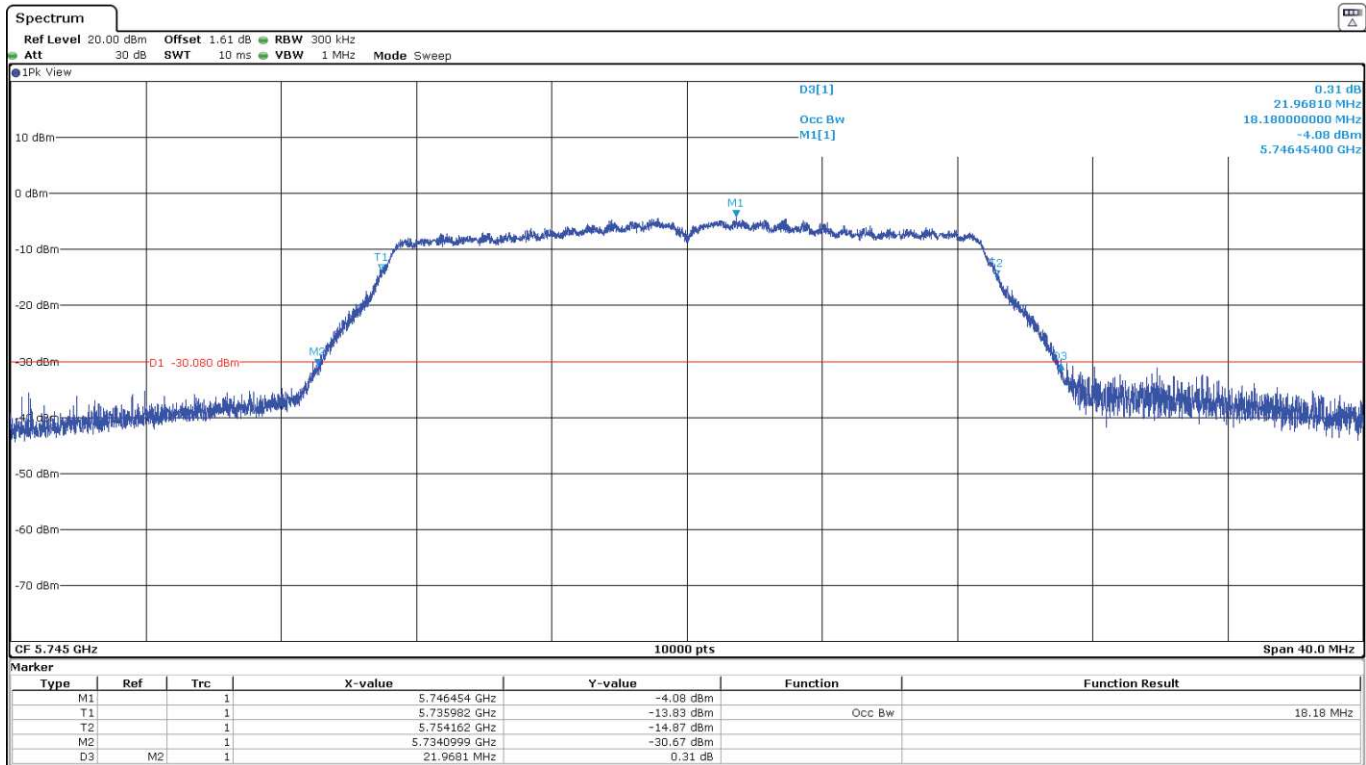


- High Channel 48 (5240 MHz):

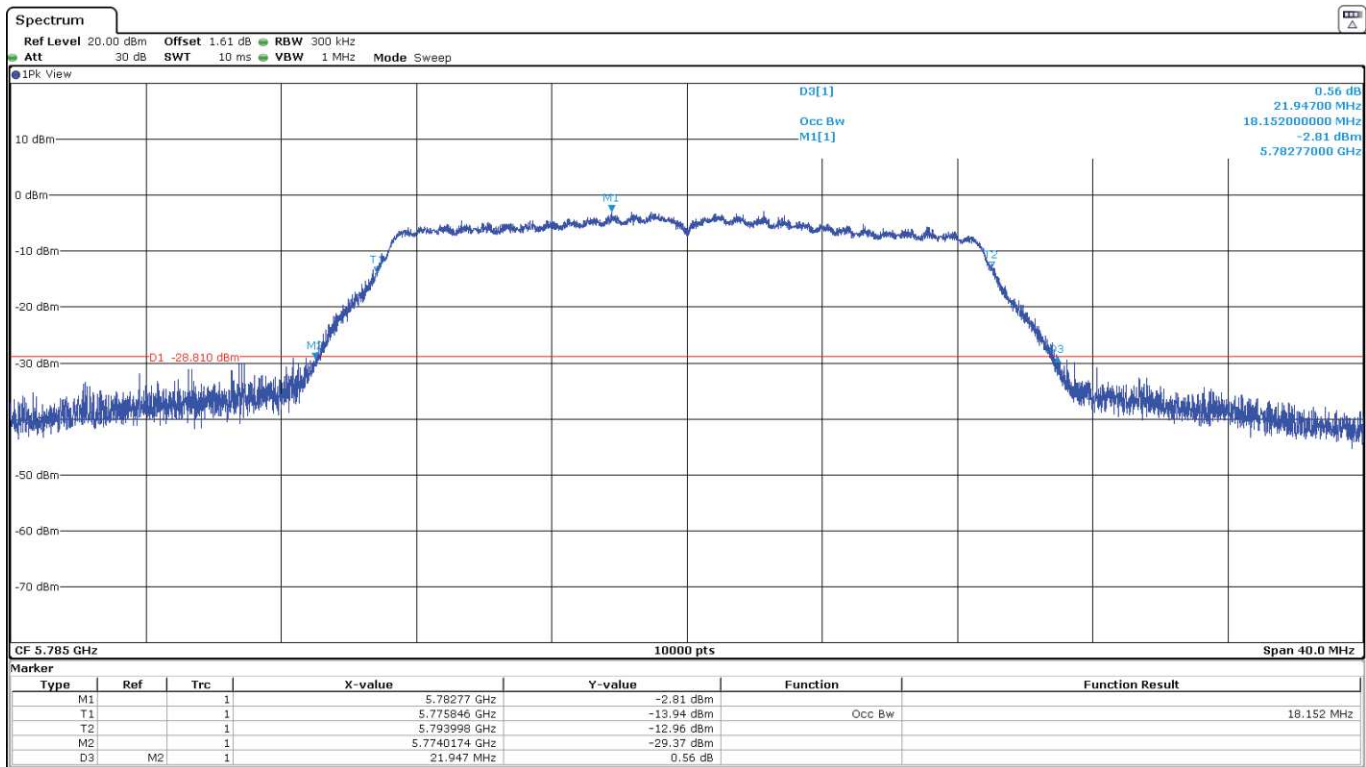


U-NII-3 (5725-5850 MHz)

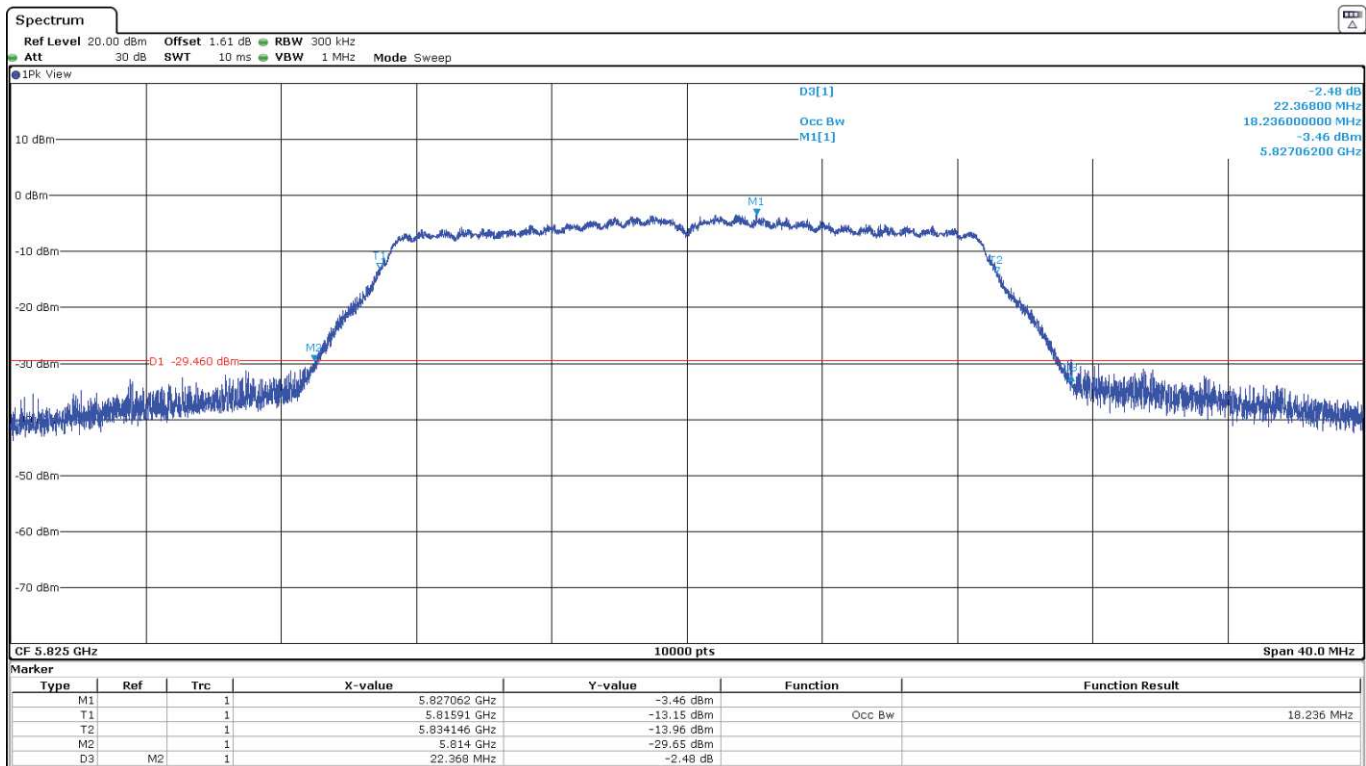
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



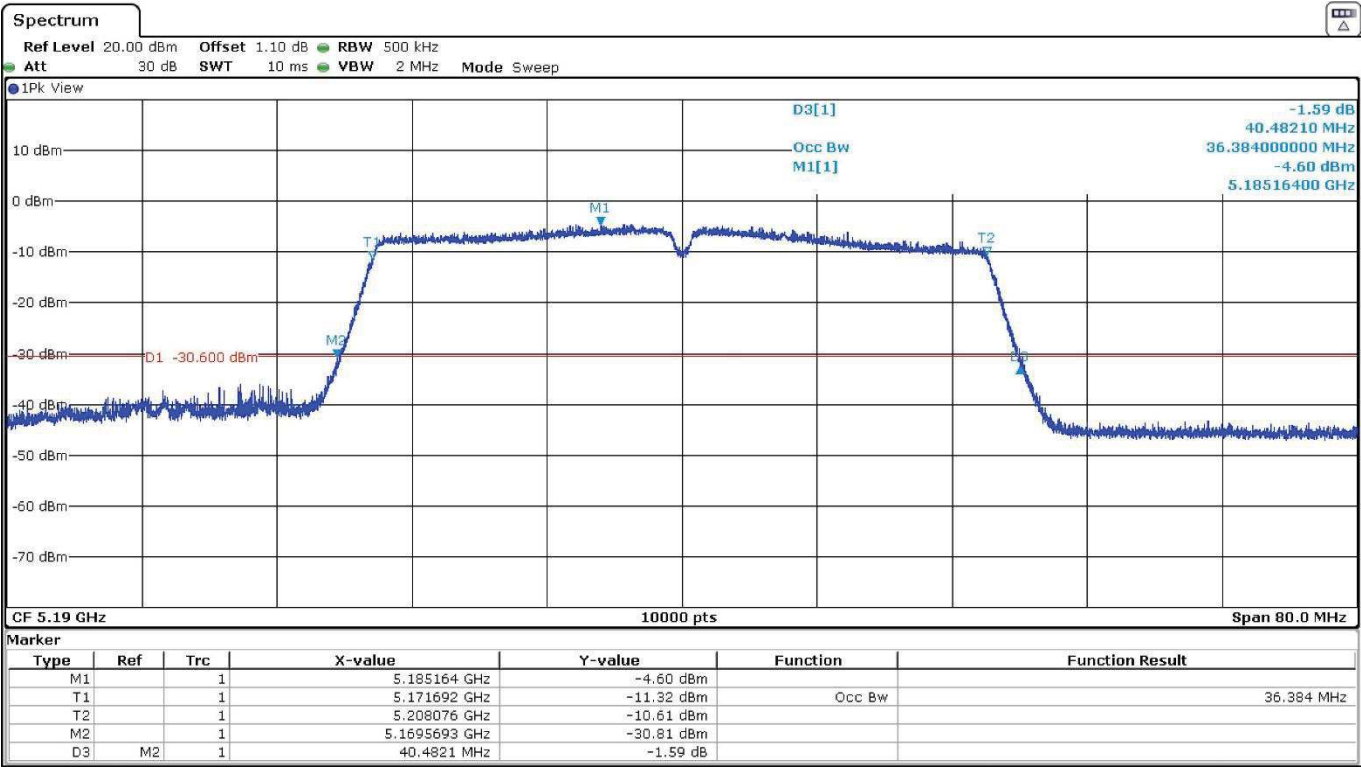
- High Channel 165 (5825 MHz):



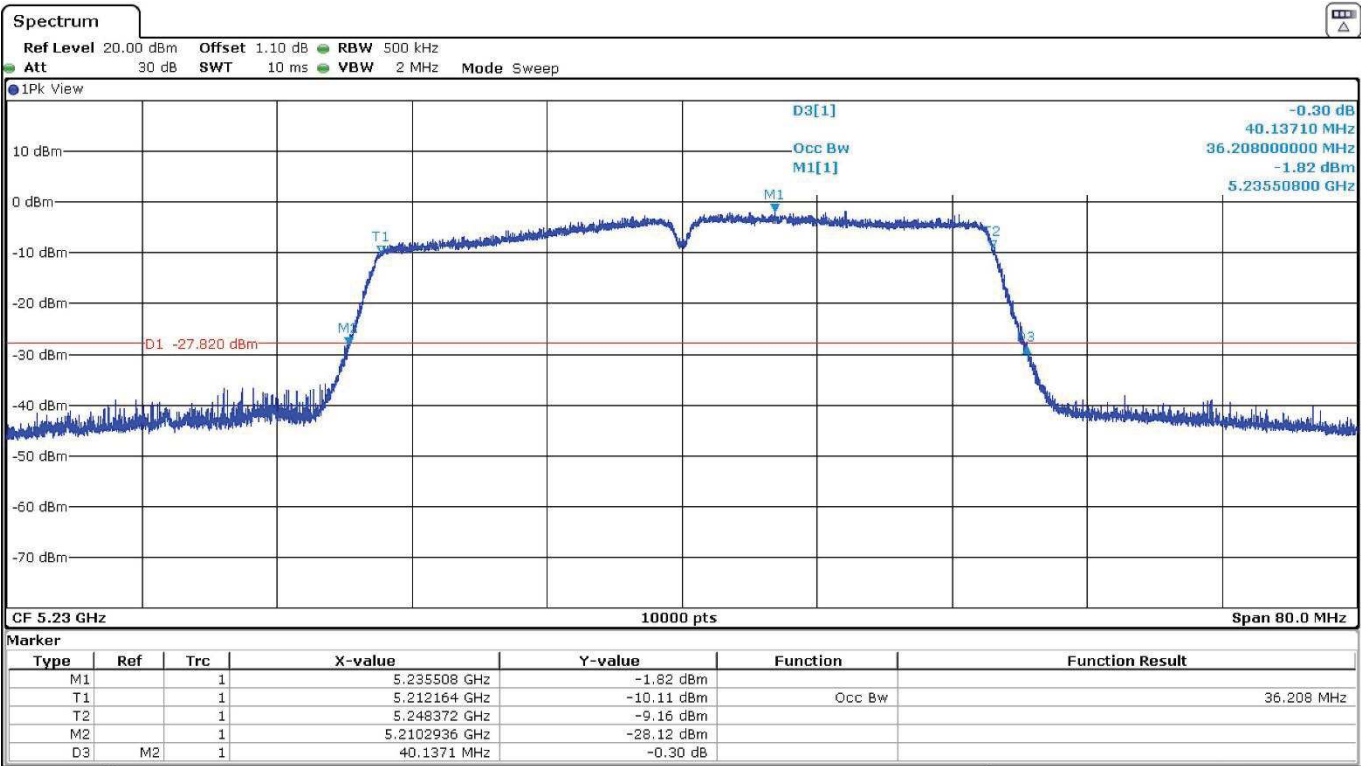
SISO 802.11 n40 (HT40):

U-NII-1 (5150-5250 MHz)

- Low Channel 38 (5190 MHz):

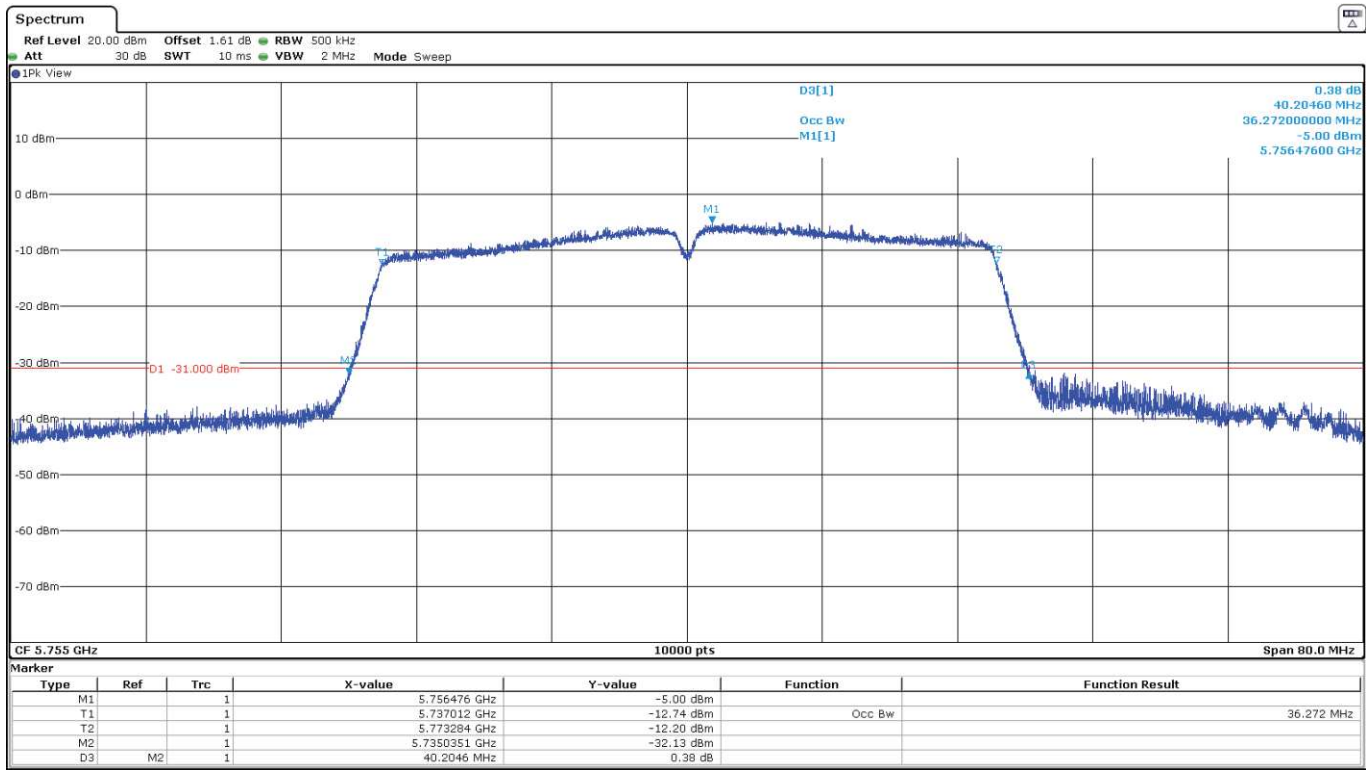


- High Channel 46 (5230 MHz):



U-NII-3 (5725-5850 MHz)

- Low Channel 151 (5755 MHz):



- High Channel 159 (5795 MHz):

