

Test Report

Product	Handheld Battery Powered Power Tool with WiFi
Name and address of the applicant	Atlas Copco SE-105 23 Stockholm Sweden
Name and address of the manufacturer	Atlas Copco SE-105 23 Stockholm Sweden
Model	ICB-A
Rating	Secondary Battery (Li-Ion, 18 V _{DC} , 2.6 Ah, 46.8 Wh)
Trademark	Atlas Copco
Serial number	Nemko Order/Item No 3890810004
Additional information	WiFi
Tested according to	Parts of FCC Part 15.407 Unlicensed National Information Infrastructure Devices (U-NII) Parts of Industry Canada RSS-247, Issue 2 Licence-Exempt Local Area Network (LE-LAN) Devices
Order number	389081
Tested in period	2020-07-03 to 2020-08-26
Issue date	2020-09-28
Name and address of the testing laboratory	 Instituttveien 6 Kjeller, Norway www.nemko.com CAB Number FCC: NO0001 ISED: NO0470 TEL: +47 22 96 03 30 FAX: +47 22 96 05 50   An accredited technical test executed under the Norwegian accreditation scheme
 Prepared by [Jan G Eriksen]  Approved by [Frode Sveinsen]	
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1 INFORMATION

1.1 Test Item

Name	Atlas Copco
Model/version	ICB-A
FCC ID	2AQ8P-ICB
ISED ID	24224-ICB
Serial number	Item no: 3890810004
Hardware identity and/or version	2
Software identity and/or version	3.3
Frequency Ranges	U-NII-1 : 5180 – 5240 MHz: 4 channels U-NII-2A : 5260 – 5320 MHz: 4 channels U-NII-2C : 5500 – 5700 MHz: 8 channels U-NII-3 : 5745 – 5825 MHz: 5 channels
Operating Modes	802.11a 802.11n (20 MHz BW)
Type of Modulation	Digital (OFDM - Orthogonal frequency-division multiplexing)
Conducted Output Power	5180 – 5240 MHz: 12.9 mW 5260 – 5320 MHz: 12.6 mW 5500 – 5700 MHz: 13.8 mW 5745 – 5825 MHz: 7.9 mW
Antenna Connector	None (Internal U-FL only)
Number of Antennas	2
Antenna Diversity Supported	Yes
Smart Antennas Supported	No
TPC Supported	Not implemented, not required when EIRP is below 500 mW
DFS Supported	Not supported, Client Device without Radar Detection
Power Supply	Secondary Battery (Li-Ion, 18 V _{DC} , 46.8 Wh, 2.6 Ah)
Desktop Charger	N/A (Battery is charged in a separate charger)

Description of Test Item

The tested device is a Power Tool with 2.4GHz and 5GHz WiFi.

1.3 Normal test conditions

Temperature: 20 - 24 °C
Relative humidity: 20 - 50 %
Normal test voltage: 18 V_{DC} (Nominal Voltage)

The values are the limit registered during the test period.

All tests were performed with a fully charged battery.

1.4 Test Engineer(s)

Jan G. Eriksen

1.5 Antenna Requirement

Is the antenna detachable?

☐ Yes ☒ No

If detachable, is the antenna connector non-standard?

☐ Yes ☐ No

Type of antenna connector: N/A, Integral Antenna

1.6 Worst-Case Configuration

Radiated Emissions and Power Line Conducted Emissions were performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario.

Modulation	Worst Case Bitrate	Duty Cycle
802.11a	6 Mb	100 %
802.11n HT20	MCS0	100 %

1.7 EUT Operating Modes

Description of operating modes	Continuous TX, 5GHz, 802.11a 6Mb, 802.11n HT20 MCS0
Additional information	A computer was connected by USB to the EUT. Putty was used to log in with SH, and batch commands were used to program antenna, modulation, bit-rate and channel.

1.8 Comments

All tested parameters are passed.

1.9 Power Levels

Channel	Freq (MHz)	802.11a	802.11n HT20
36	5180	127	124
40	5200	127	127
44	5220	127	127
48	5240	127	127
52	5260	127	127
56	5280	127	127
60	5300	127	127
64	5320	124	124
100	5500	127	127
104	5520	127	127
108	5540	127	127
112	5560	127	127
116	5580	127	127
120	5600	D	D
124	5620	D	D
128	5640	D	D
132	5660	127	127
136	5680	127	127
140	5700	5	5
144	5720	D	D
149	5745	127	127
153	5765	127	127
157	5785	127	127
161	5805	127	127
165	5825	127	127

D = Disabled/ Not Used

ISED Canada require that all channels in the TDWR Band (5.60-5.65 GHz) are disabled, also on client devices

Power Setting values above were used for all tests on this model. Setting Level 127 is the maximum value.

2 TEST REPORT SUMMARY

2.1 General

All measurements are traceable to national standards.

The tests were conducted for demonstrating compliance with FCC CFR 47 Part 15, paragraph 15.247 and ISED RSS-247 Issue 2 and RSS-GEN Issue 5.

Tests were performed in accordance with ANSI C63.4-2014 and ANSI C63.10-2013.

Radiated tests were performed in a semi-anechoic chamber at measuring distance 3m.

A description of the test facility is on file with FCC and ISED Canada.

☒ New Submission

☒ Production Unit

☐ Class II Permissive Change

☐ Pre-production Unit

NII Equipment Code

☐ Family Listing



THIS TEST REPORT APPLIES ONLY TO THE ITEM(S) AND CONFIGURATIONS TESTED.

Deviations from, additions to, or exclusions from the test specifications are described in "Summary of Test Data".

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2.2 Test Summary

Name of test	FCC Part 15 reference	RSS-247 Issue 2 RSS-GEN Issue 5 reference	Result
Supply Voltage Variations	15.31(e)	6.11 (RSS-GEN)	Complies
Antenna Requirement	15.203	6.8 (RSS-GEN)	Complies
Power Line Conducted Emission	15.107(a) 15.207(a)	7.2 / 8.8 (RSS-GEN)	Complies
Maximum Output Power	15.407(a)	6.2	Complies
Power Spectral Density	15.407(a)	6.2	Complies
Emission Bandwidth	15.407(a)(2)	6.2	Complies
Unwanted Emissions	15.407(b)	6.2	Complies
Discontinuation of Transmission	15.407(c)	6.3	N/T ¹
6 dB Bandwidth	15.407(e)	6.2.4	Complies
Transmit Power Control	15.407(h)	6.2.3	N/A ²
Dynamic Frequency Selection	15.407(h)	6.3	Complies ³
Radiated Emissions	15.205 15.209	7.3 (RSS-GEN) 8.9 (RSS-GEN)	Complies

¹ See manufacturers declaration

² Transmit Power Control is not required when Max EIRP is below 500 mW

³ The EUT is a Client Device without Radar Detection.

Revision history

Revision	Date	Comment	Sign
00	2020-09-17	First edition	JGER
01	2020-09-28	Updated version	FS
02	2020-10-01	Radiated power updated	FS

3 TEST RESULTS

3.1 Maximum Output Power (RMS)

FCC 15.407 (a)

ISED RSS-247, Issue 2, Clause 6.2

Measurement procedure: ANSI C63.10-2013 Clause 12.3, method SA-1

Test Results: Complies

Measurement Data:

Ch. No.	Nominal Frequency (MHz)	Maximum Conducted Output Power (dBm)		Maximum Radiated Power (dBm)	
		802.11a 6Mb	802.11n HT20	802.11a 6Mb	802.11n HT20
36	5180	8.7	10.7	10.7	12.7
42	5200	9.5	10.0	11.5	12.0
48	5240	10.5	11.1	12.5	13.1
56	5280	10.4	11.0	12.4	13.0
64	5320	9.9	10.5	11.9	12.5
100	5500	7.1	6.5	9.1	8.5
116	5580	9.4	11.4	11.4	13.4
140	5700	10.4	10.6	12.4	12.6
149	5745	5.1	4.9	7.1	6.9
157	5785	7.4	8.3	9.4	10.3
165	5825	8.2	9.0	10.2	11.0

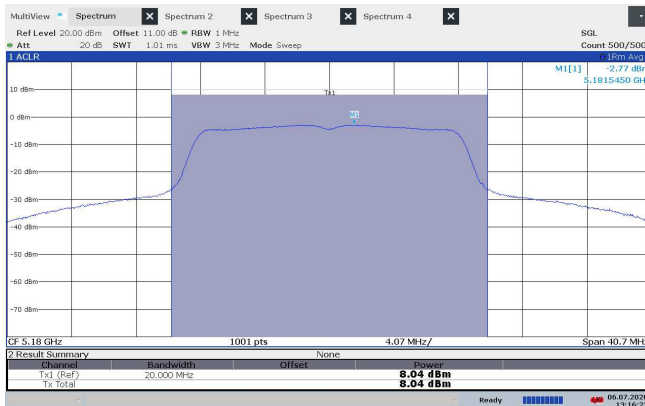
Manufacturer value for Antenna Gain = 2.0 dBi

The EUT operates continuously; therefore, method SA-1 of ANSI C63.10-2013 clause 12.3 was used.

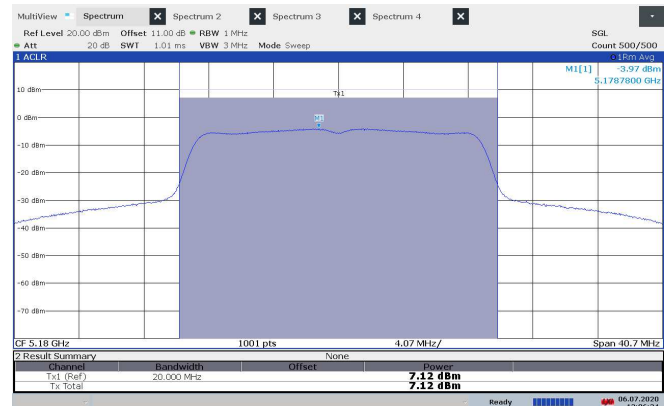
EIRP values were calculated from Field Strength values using the method described in KDB 412172 D01.

Limits for Indoor Device:

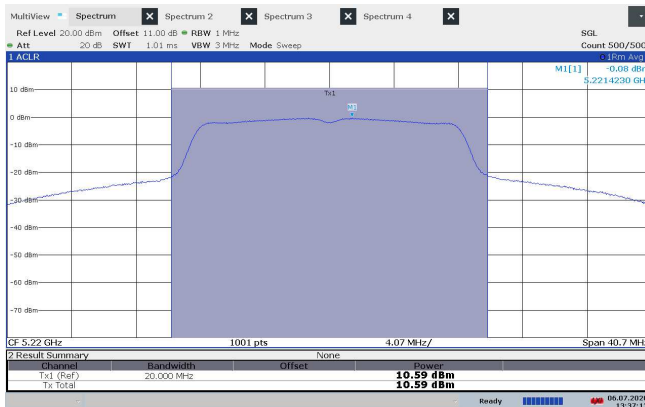
Frequency Band	FCC 15.407(a)	ISED RSS-247 Issue 2
5150 – 5250 MHz	Less than 250 mW (24 dBm) for client device Less than 1 W (30 dBm) for master device	Less than the lesser of 200 mW e.i.r.p. or $10 + 10 \log_{10} B$ dBm e.i.r.p.
5250 – 5350 MHz	Less than the lesser of 250 mW (24 dBm) or $11 + 10 \log_{10} B$ dBm	Less than the lesser of 250 mW or $11 + 10 \log_{10} B$ dBm, and
5470 – 5725 MHz		Less than the lesser of 1 W e.i.r.p. or $17 + 10 \log_{10} B$ dBm e.i.r.p. Devices with e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W
5725 – 5825 MHz	Less than 1 Watt	Less than 1 Watt If Antenna Gain is more than 6 dBi the Power Limit is reduced by the amount exceeding 6 dBi
	If Antenna Gain is more than 6 dBi the Power Limit is reduced by the amount exceeding 6 dBi	
	B is the 26dB emission bandwidth in MHz	B is the 99% emission bandwidth in MHz



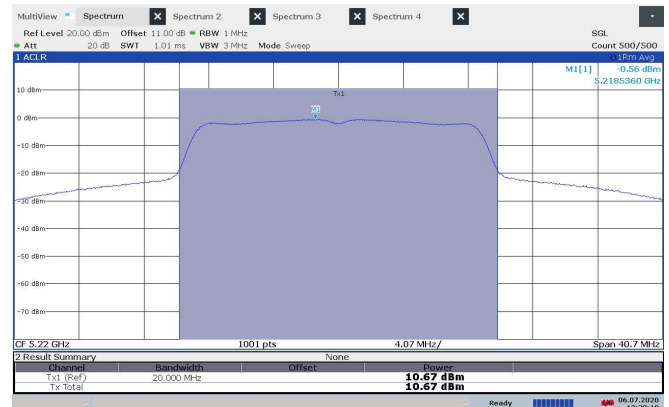
RMS Conducted Power, 5180 MHz, 802.11a, 6Mb



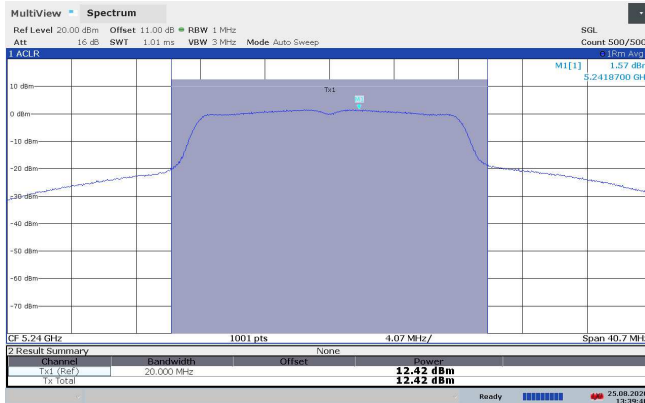
RMS Conducted Power, 5180 MHz, 802.11n, HT20



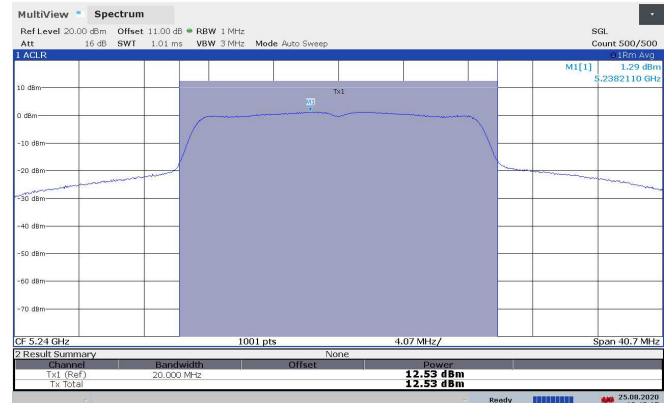
RMS Conducted Power, 5220 MHz, 802.11a, 6Mb



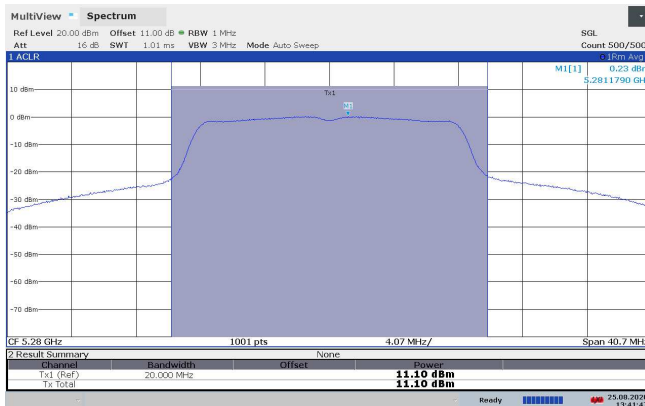
RMS Conducted Power, 5220 MHz, 802.11n, HT20



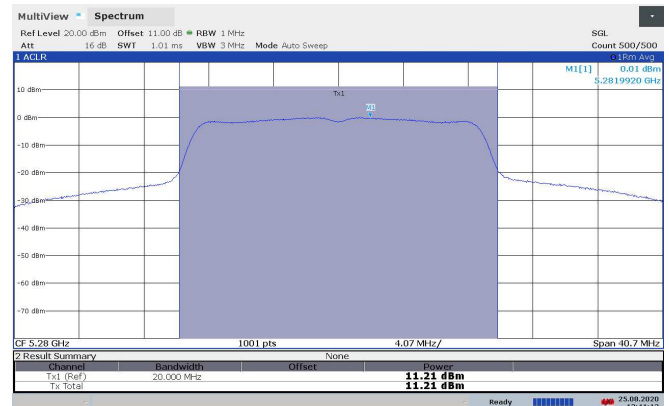
RMS Conducted Power, 5240 MHz, 802.11a, 6Mb



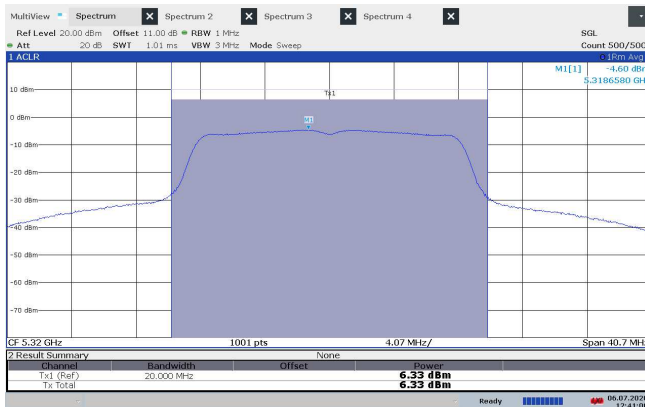
RMS Conducted Power, 5240 MHz, 802.11n, HT20



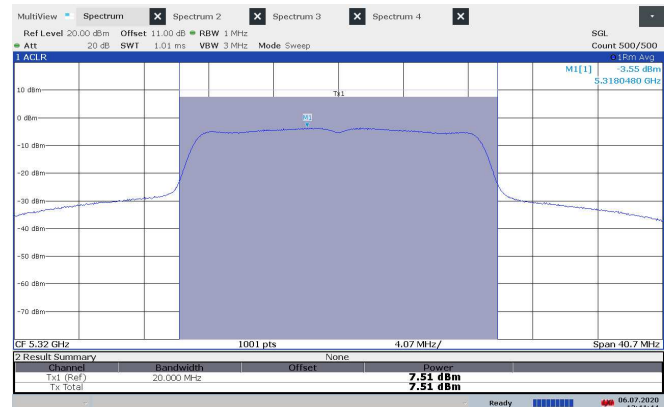
RMS Conducted Power, 5280 MHz, 802.11a, 6Mb



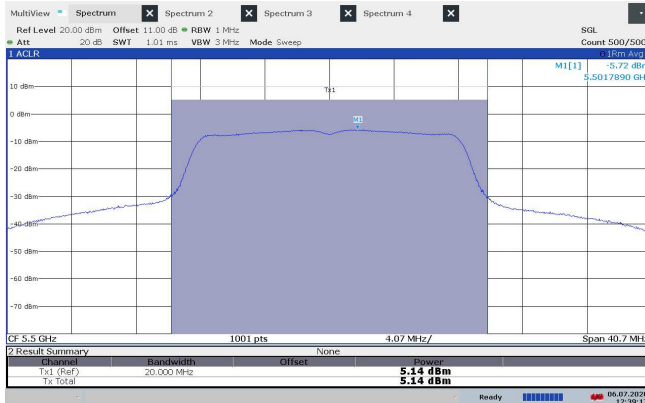
RMS Conducted Power, 5280 MHz, 802.11n, HT20



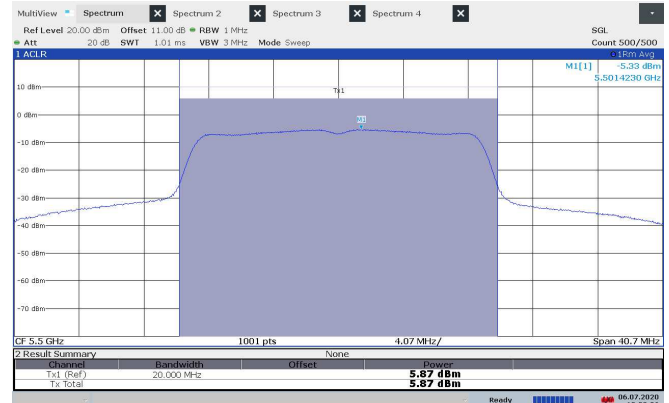
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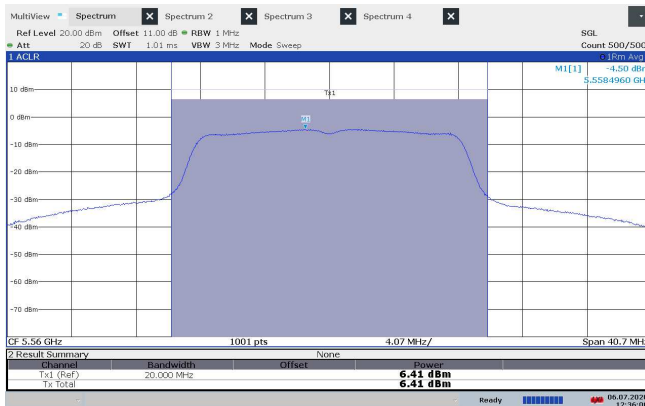
RMS Conducted Power, 5320 MHz, 802.11n, HT20



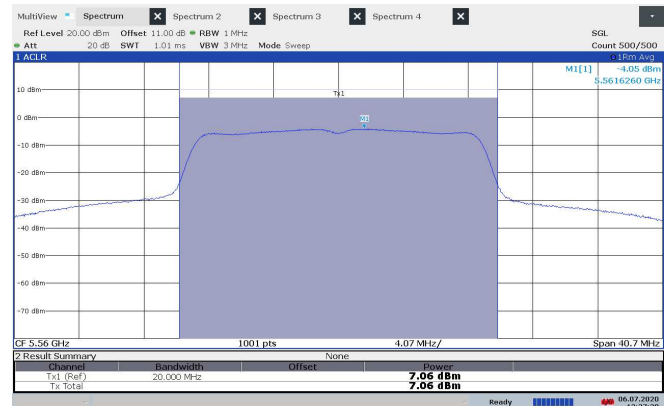
RMS Conducted Power, 5500 MHz, 802.11a, 6Mb



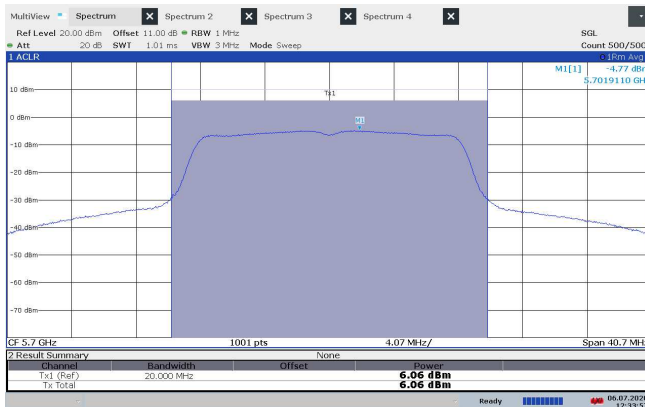
RMS Conducted Power, 5500 MHz, 802.11n, HT20



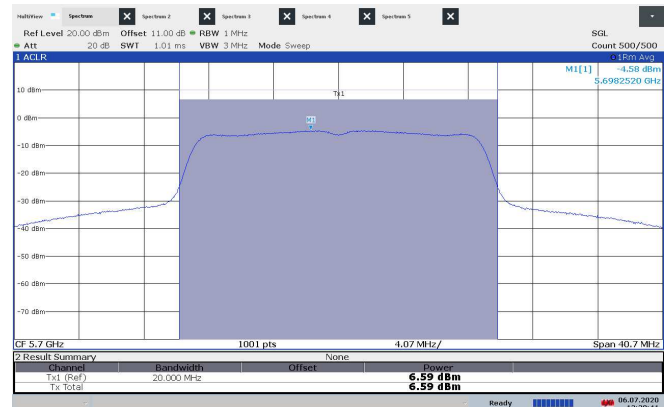
RMS Conducted Power, 5560 MHz, 802.11a, 6Mb



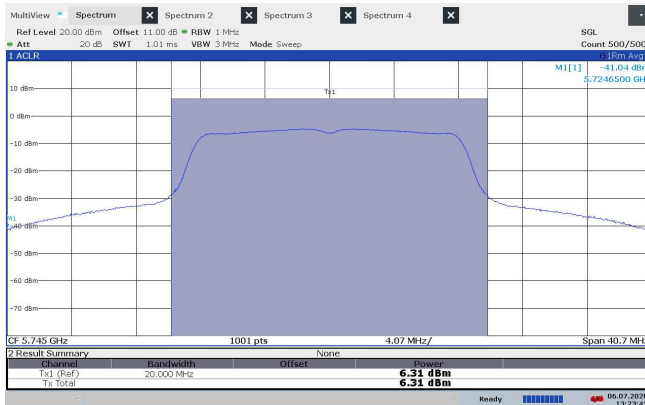
RMS Conducted Power, 5560 MHz, 802.11n, HT20



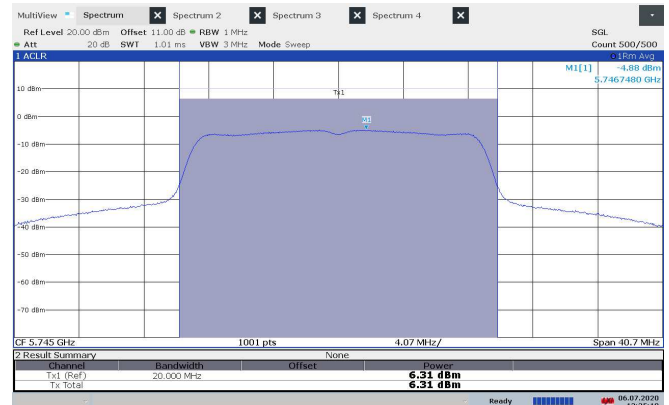
RMS Conducted Power, 5700 MHz, 802.11a, 6Mb



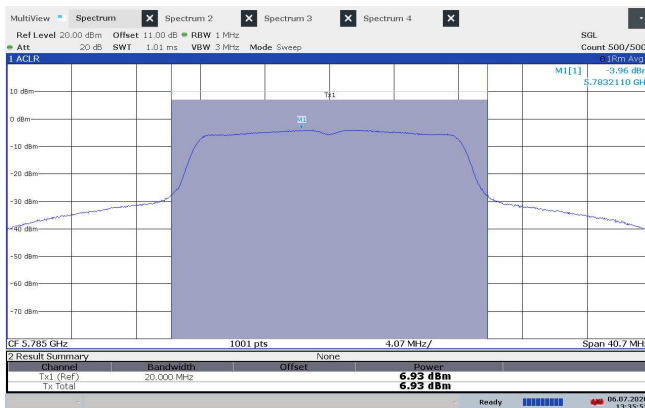
RMS Conducted Power, 5700 MHz, 802.11n, HT20



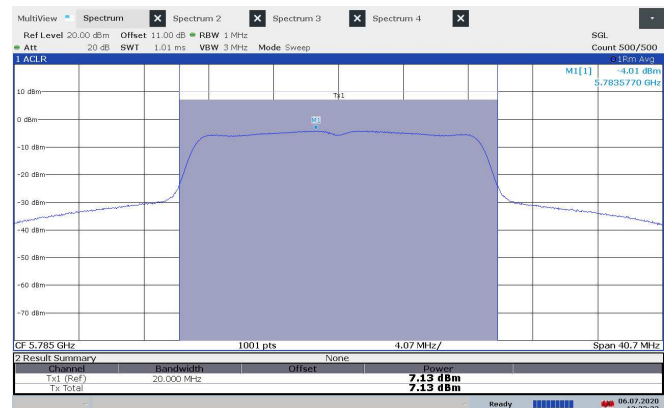
RMS Conducted Power, 5745 MHz, 802.11a, 6Mb



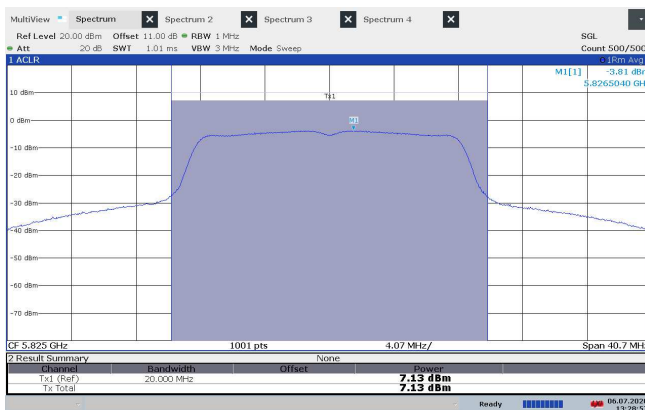
RMS Conducted Power, 5745 MHz, 802.11n, HT20



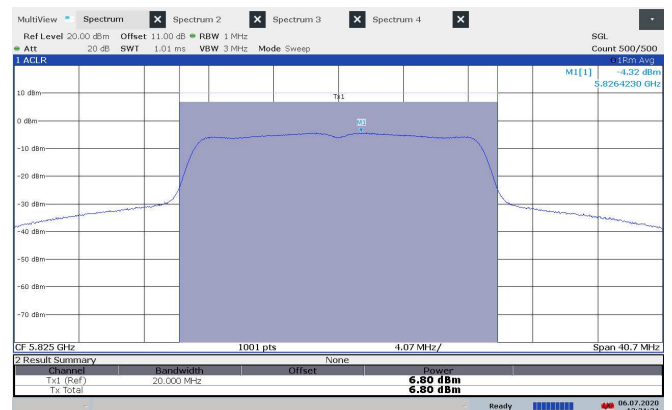
RMS Conducted Power, 5785 MHz, 802.11a, 6Mb



RMS Conducted Power, 5785 MHz, 802.11n, HT20



RMS Conducted Power, 5825 MHz, 802.11a, 6Mb



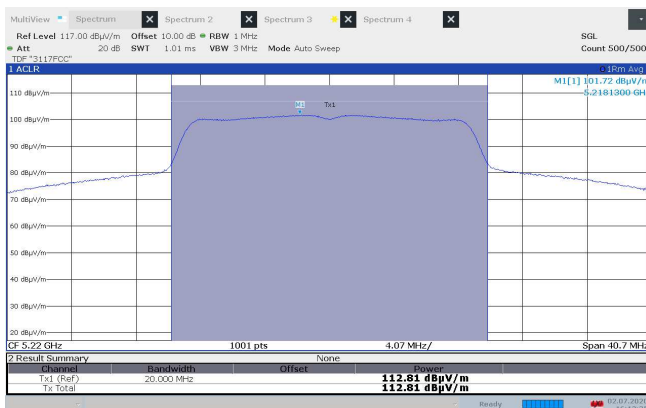
RMS Conducted Power, 5825 MHz, 802.11n, HT20



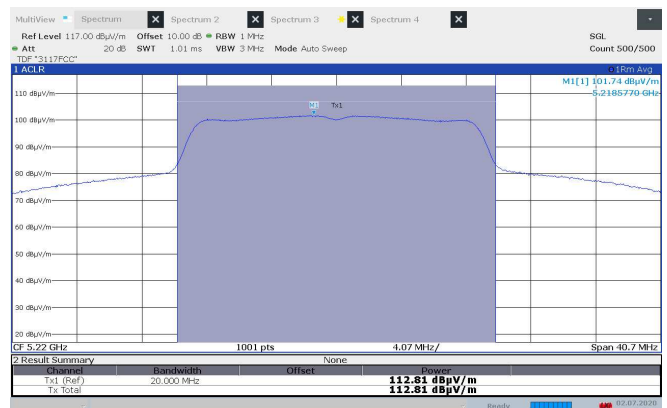
EIRP, 5180 MHz, 802.11a, 6Mb, EUT V, Ant 2, VP, Max



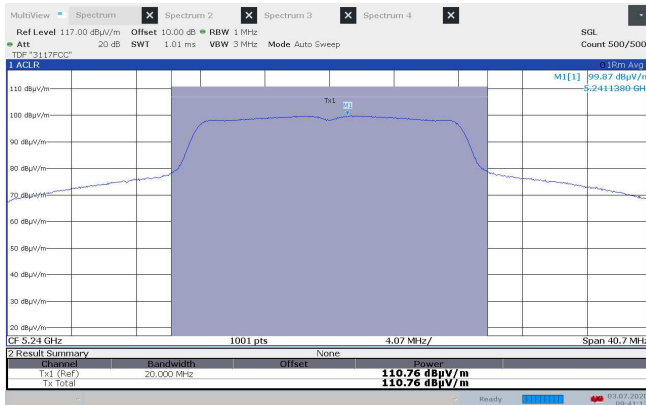
EIRP, 5180 MHz, 802.11n, HT20, Ant 2, VP, Max



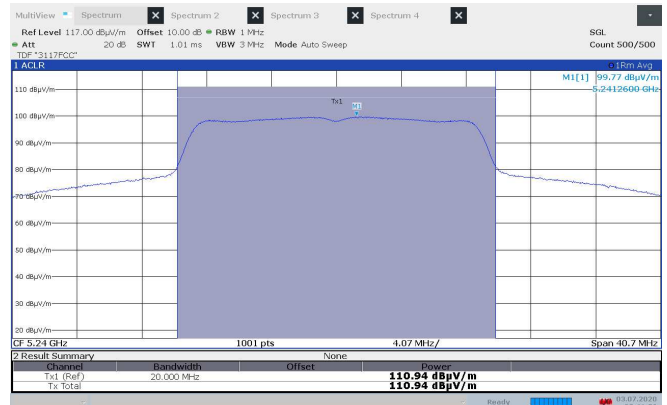
EIRP, 5220 MHz, 802.11a, 6Mb, EUT V, Ant 2, VP, Max



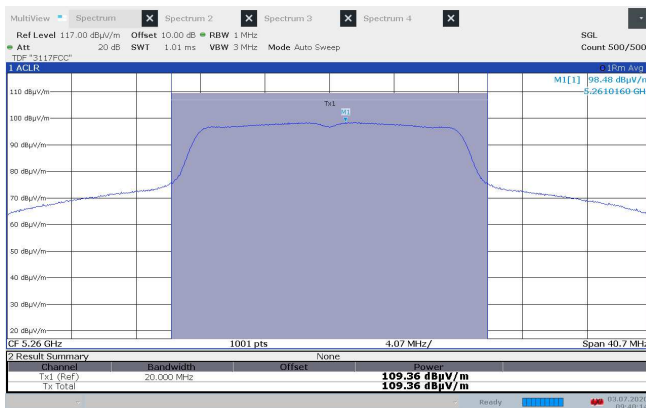
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EIRP, 5240 MHz, 802.11a, 6Mb, EUT V, Ant 2, VP, Max



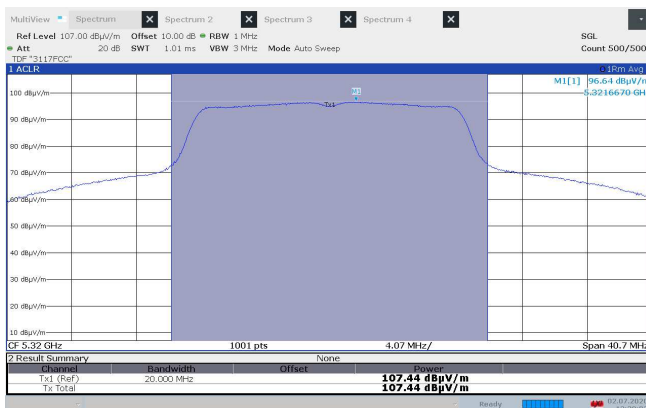
EIRP, 5240 MHz, 802.11n, HT20, Ant 2, VP, Max



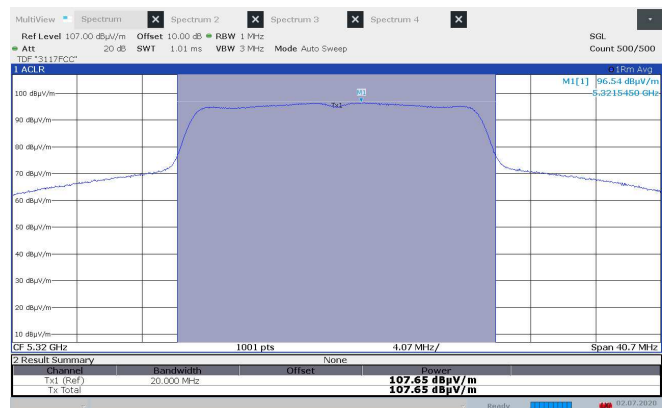
EIRP, 5260 MHz, 802.11a, 6Mb, EUT V, Ant 2, VP, Max



EIRP, 5260 MHz, 802.11n, HT20, Ant 2, VP, Max



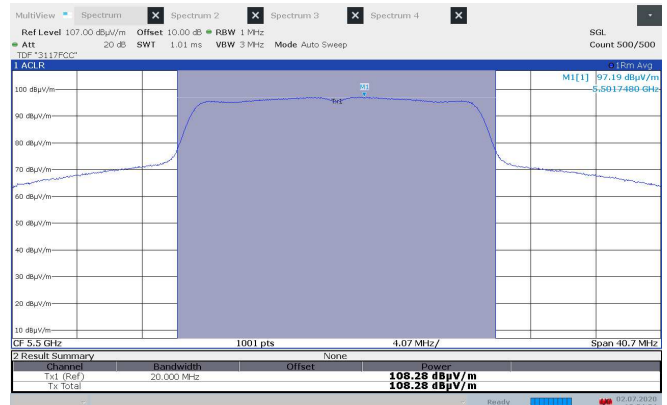
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EIRP, 5320 MHz, 802.11n, HT20, Ant 1, VP, Max



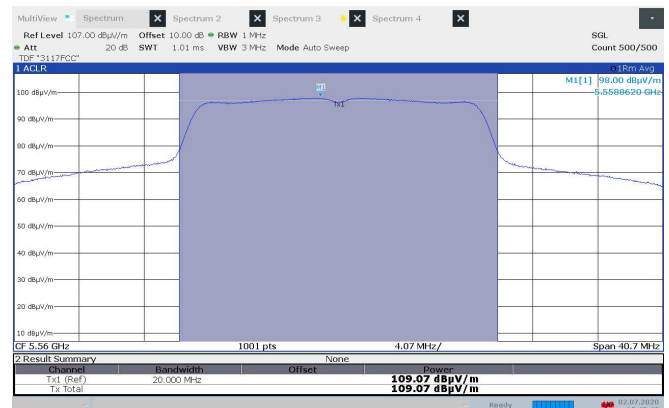
EIRP 5500 MHz, 802.11a, 6Mb, EUT V, Ant 1, VP, Max



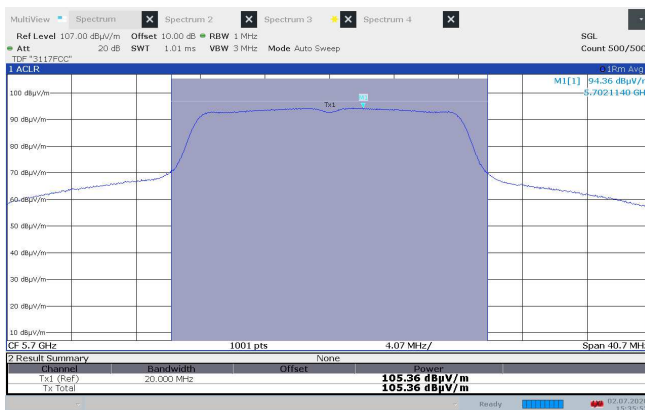
EIRP, 5500 MHz, 802.11n, HT20, Ant 1, VP, Max



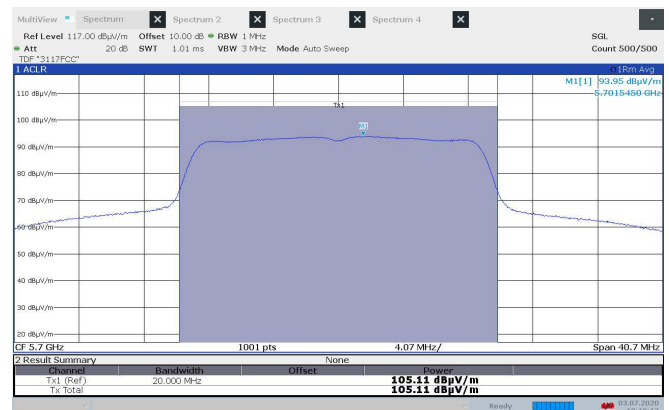
EIRP, 5560 MHz, 802.11a, 6Mb, EUT V, Ant 1, VP, Max



EIRP, 5560 MHz, 802.11n, HT20, Ant 1, VP, Max



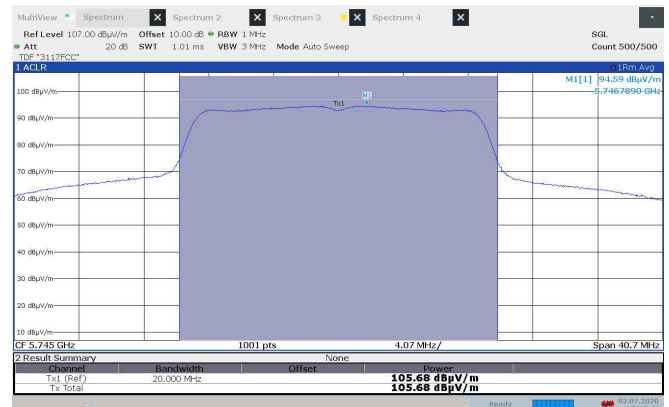
EIRP, 5700 MHz, 802.11a, 6Mb, EUT V, Ant 2, VP, Max



EIRP, 5700 MHz, 802.11n, 6Mb, Ant 1, VP, Max



EIRP, 5745 MHz, 802.11a, 6Mb, EUT V, Ant 1, VP, Max



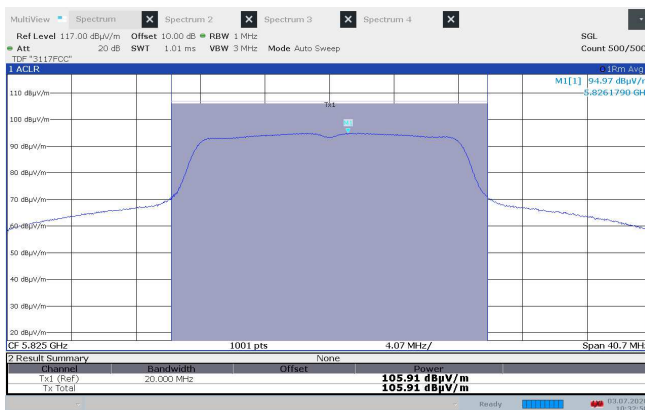
EIRP, 5745 MHz, 802.11n, HT20, Ant 1, VP, Max



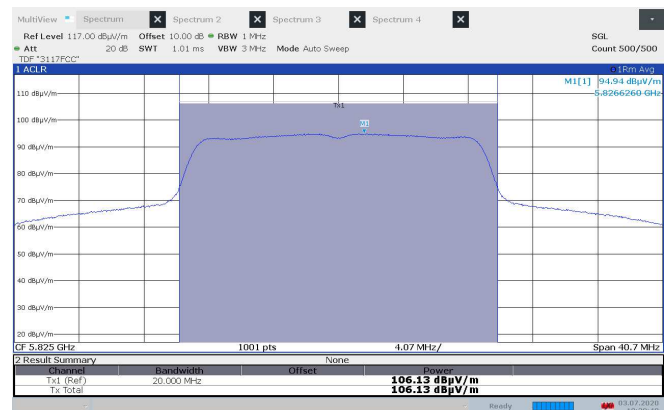
EIRP, 5785 MHz, 802.11a, 6Mb, EUT V, Ant 1, VP, Max



EIRP, 5785 MHz, 802.11n, 6Mb, Ant 1, VP, Max



EIRP, 5825 MHz, 802.11a, HT20, EUT V, Ant 2, VP, Max



EIRP, 5825 MHz, 802.11n, HT20, Ant 2, VP, Max

3.2 Emission Bandwidth

Para. No.: 15.407(a)(2)

ISED RSS-247, Issue 2, Clause 6.2

Measurement procedure: ANSI C63.10-2013 Clause 6.9.3 and 12.4.1

Test Results: Complies

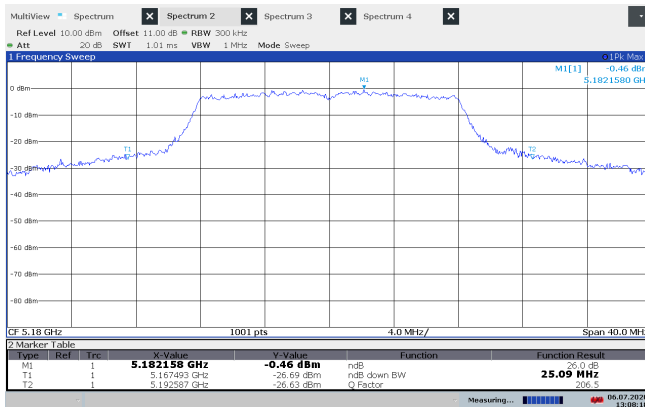
Measurement Data:

Ch. No.	Nominal Frequency (MHz)	FCC 26dB Bandwidth, Measured Values (MHz)	
		802.11a 6Mb	802.11n HT20
36	5180	25.2	34.1
48	5240	29.3	35.6
64	5320	34.2	38.9
100	5500	26.3	26.7
116	5580	35.6	40.0
140	5700	33.8	40.0

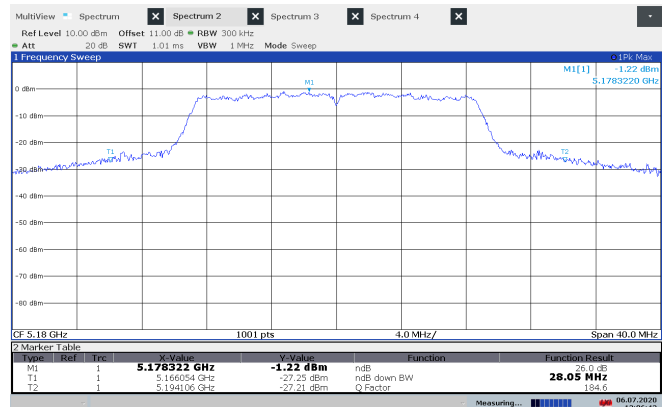
Ch. No.	Nominal Frequency (MHz)	ISED Canada 99% Bandwidth, Measured Values (MHz)	
		802.11a 6Mb	802.11n HT20
36	5180	16.9	18.8
48	5240	17.5	19.2
64	5320	18.3	21.4
100	5500	17.2	18.1
116	5580	18.3	24.8
140	5700	17.5	18.7
149	5745	17.0	18.0
157	5785	17.3	18.3
165	5825	17.2	18.3

Limit:

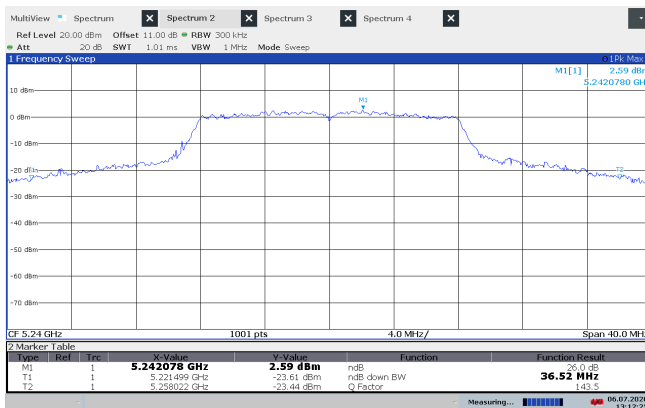
No requirements as long as the emissions are within the band-edges.



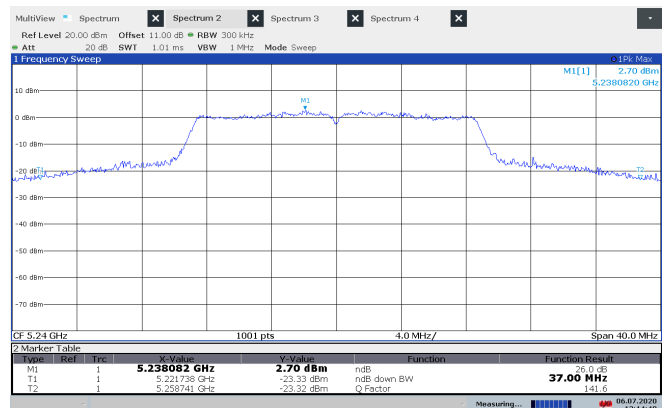
Emission BW, 5180 MHz, 802.11a, 6Mb



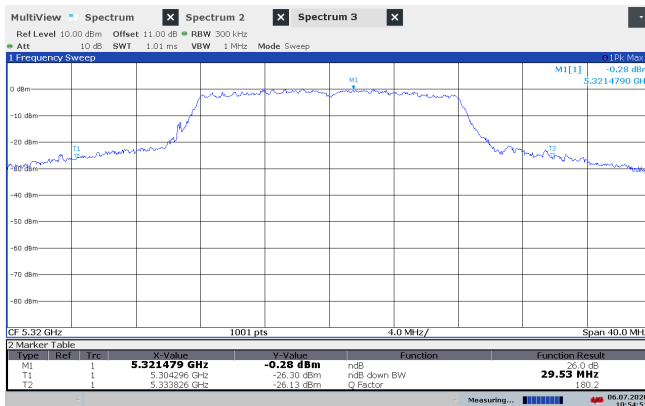
Emission BW, 5180 MHz, 802.11n, HT20



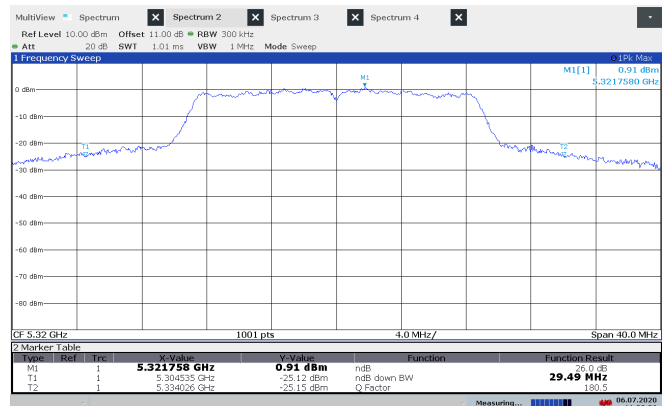
Emission BW, 5240 MHz, 802.11a, 6Mb



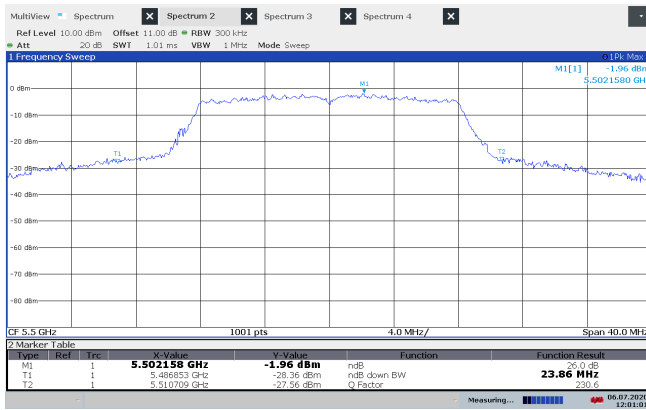
Emission BW, 5240 MHz, 802.11n, HT20



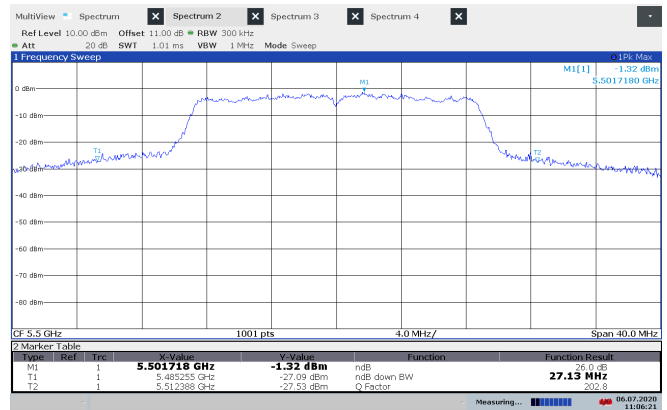
Emission BW, 5320 MHz, 802.11a, 6Mb



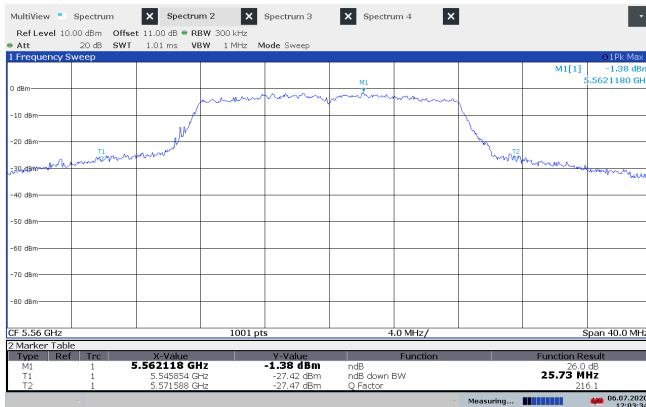
Emission BW, 5320 MHz, 802.11n, HT20



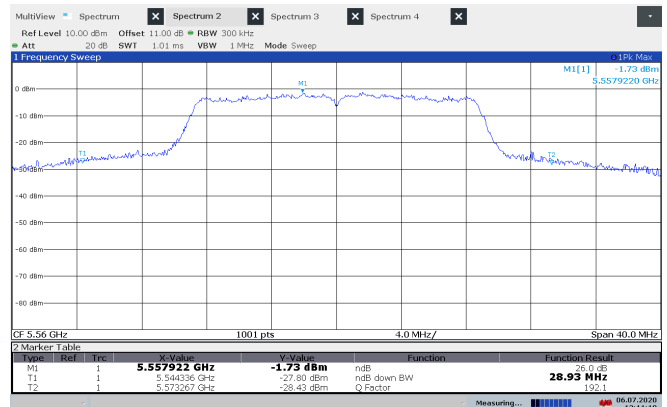
Emission BW, 5500 MHz, 802.11a, 6Mb



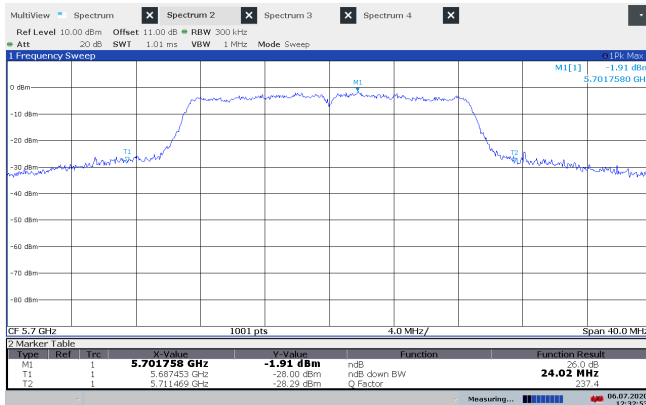
Emission BW, 5500 MHz, 802.11n, HT20



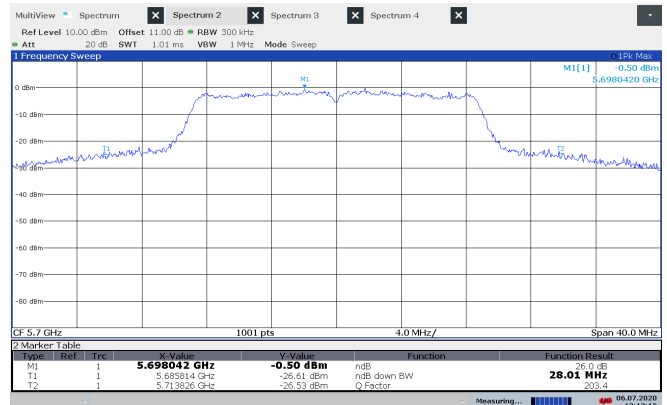
Emission BW, 5560 MHz, 802.11a, 6Mb



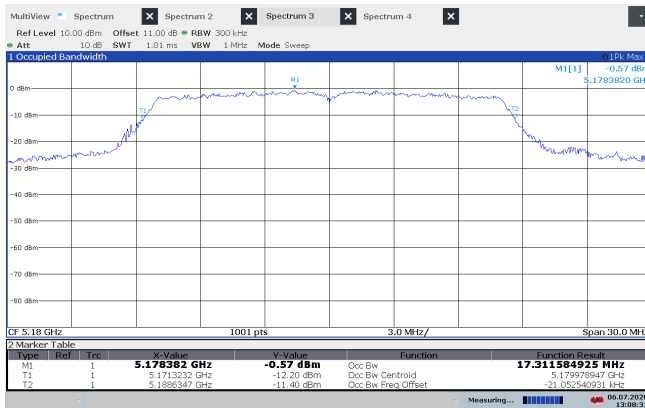
Emission BW, 5560 MHz, 802.11n, HT20



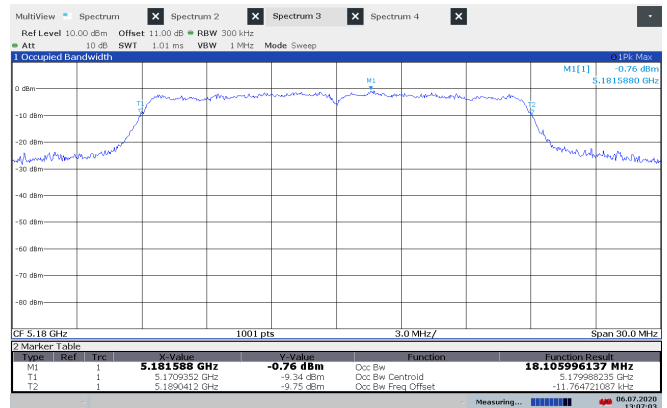
Emission BW, 5700 MHz, 802.11a, 6Mb



Emission BW, 5700 MHz, 802.11n, HT20



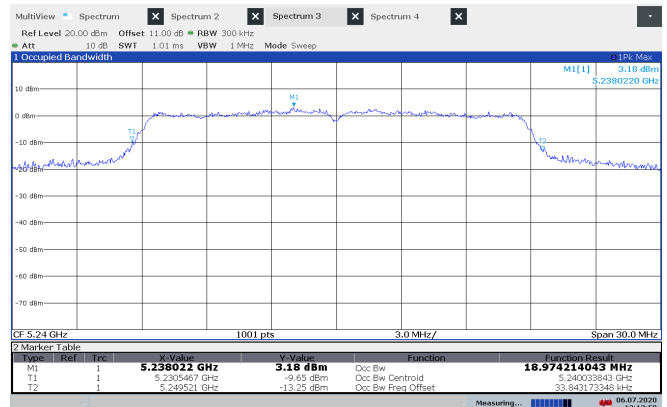
99% Occupied BW, 5180 MHz, 802.11a, 6Mb



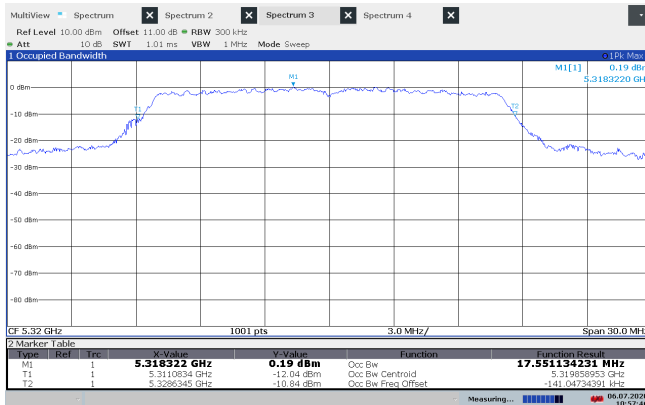
99% Occupied BW, 5180 MHz, 802.11n, HT20



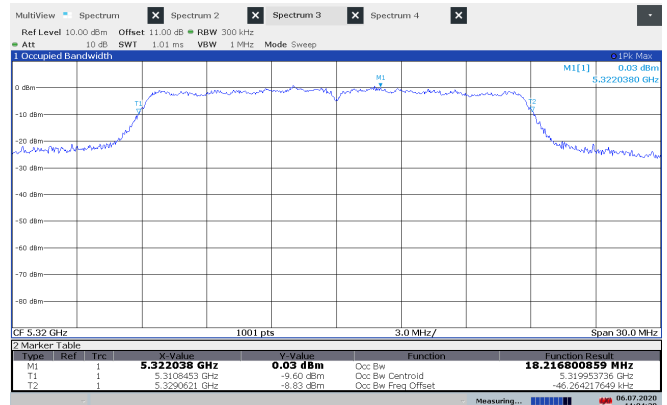
99% Occupied BW, 5240 MHz, 802.11a, 6Mb



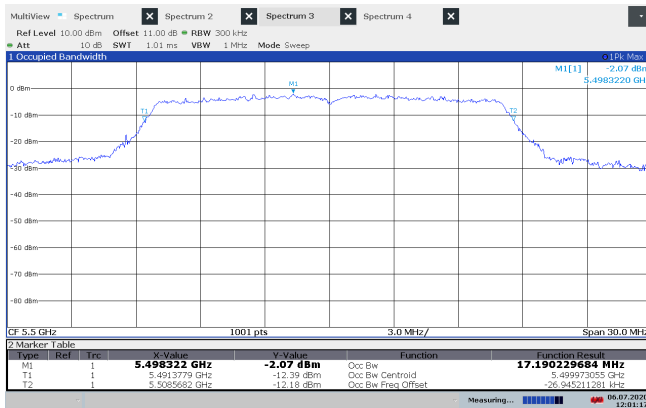
99% Occupied BW, 5240 MHz, 802.11n, HT20



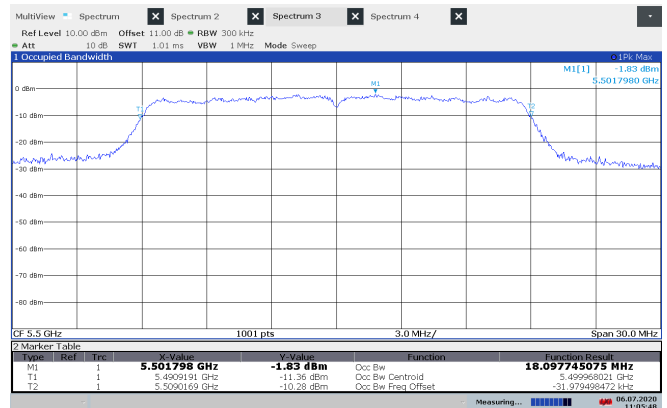
99% Occupied BW, 5320 MHz, 802.11a, 6Mb



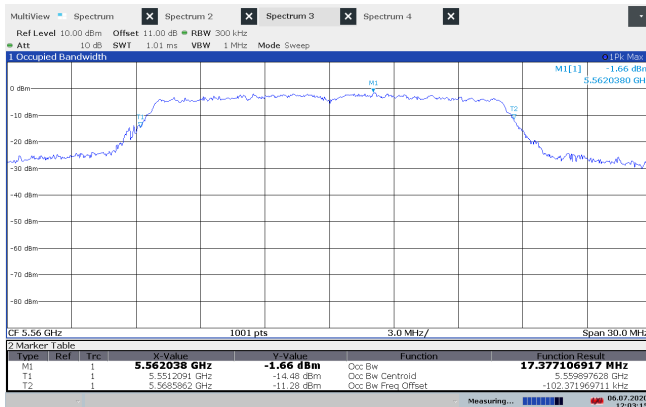
99% Occupied BW, 5320 MHz, 802.11n, HT20



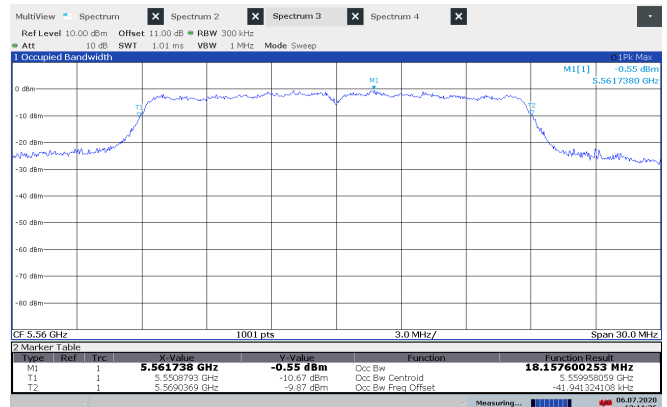
99% Occupied BW, 5500 MHz, 802.11a, 6Mb



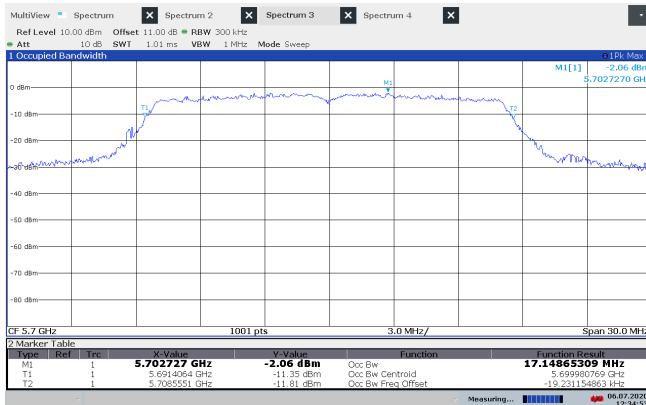
99% Occupied BW, 5500 MHz, 802.11n, HT20



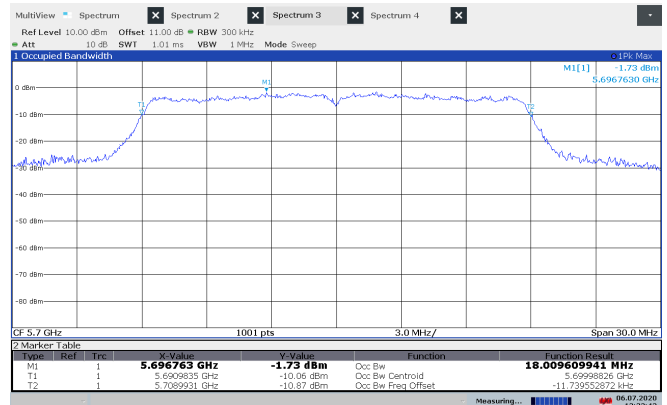
99% Occupied BW, 5560 MHz, 802.11a, 6Mb



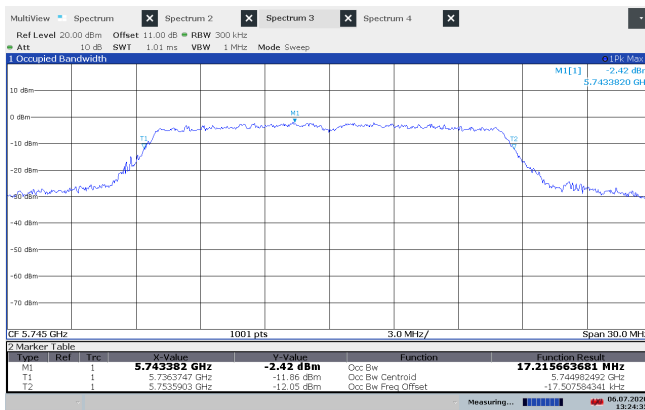
99% Occupied BW, 5560 MHz, 802.11n, HT20



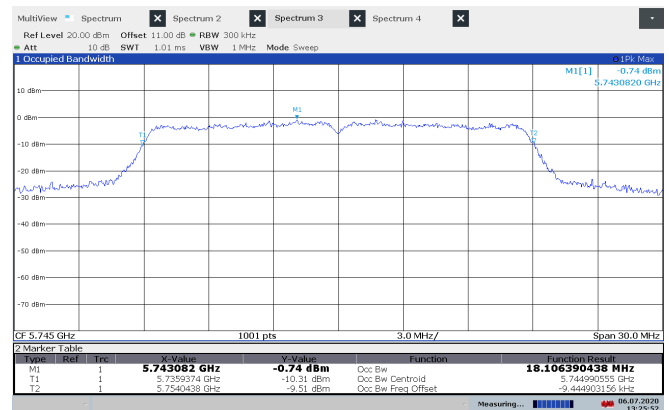
99% Occupied BW, 5700 MHz, 802.11a, 6Mb



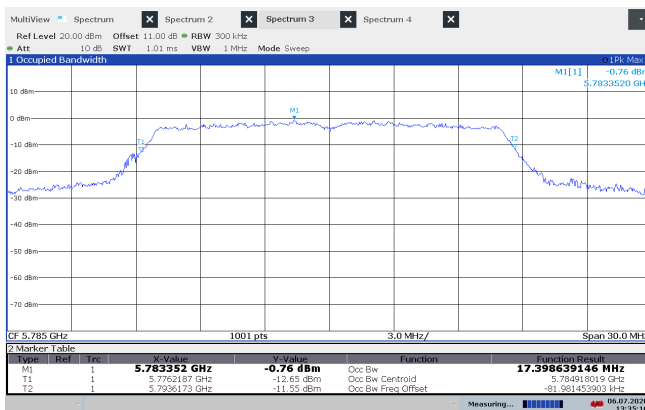
99% Occupied BW, 5700 MHz, 802.11n, HT20



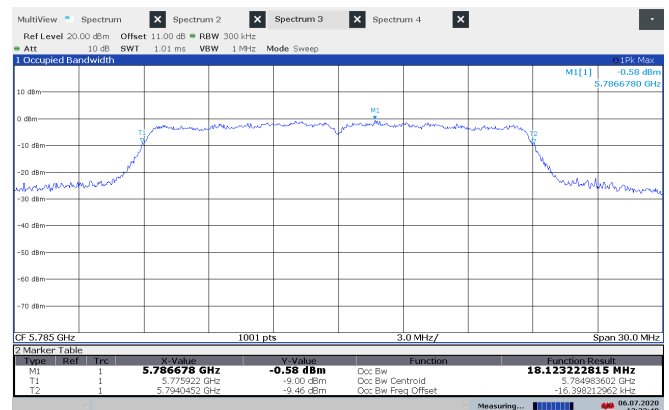
99% Occupied BW, 5745 MHz, 802.11a, 6Mb



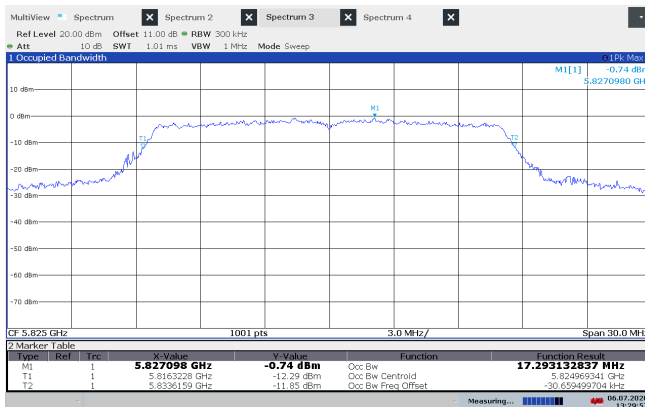
99% Occupied BW, 5745 MHz, 802.11n, HT20



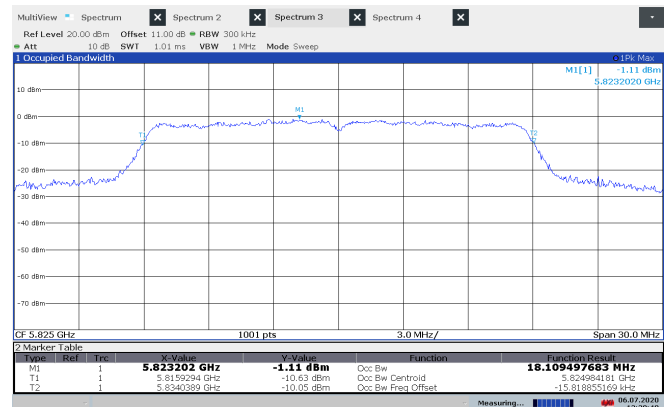
99% Occupied BW, 5785 MHz, 802.11a, 6Mb



99% Occupied BW, 5785 MHz, 802.11n, HT20



99% Occupied BW, 5825 MHz, 802.11a, 6Mb



99% Occupied BW, 5825 MHz, 802.11n, HT20

3.3 DTS Bandwidth

Para. No.: 15.407(e)

ISED RSS-247, Issue 2, Clause 6.2.4

Measurement procedure: ANSI C63.10-2013 Clause 11.8, Option 1

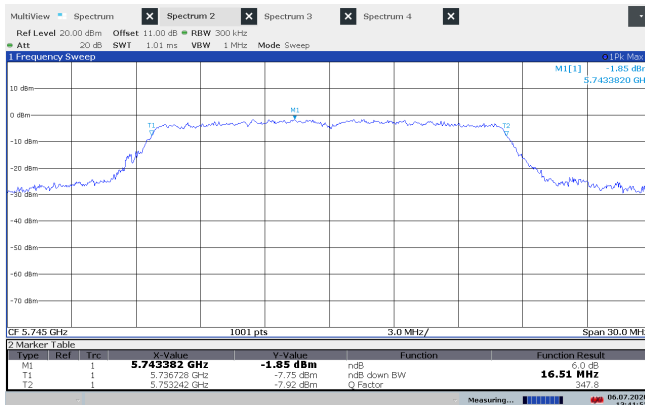
Test Results: Complies

Measurement Data:

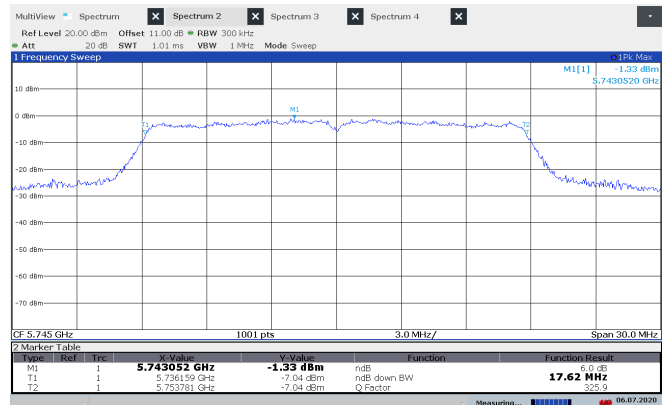
Ch. No.	Nominal Frequency (MHz)	DTS Bandwidth, Measured Values (MHz)	
		802.11a 6Mb	802.11n HT20
149	5745	16.65	17.95
157	5785	16.65	17.90
165	5825	16.65	17.95

Limit:

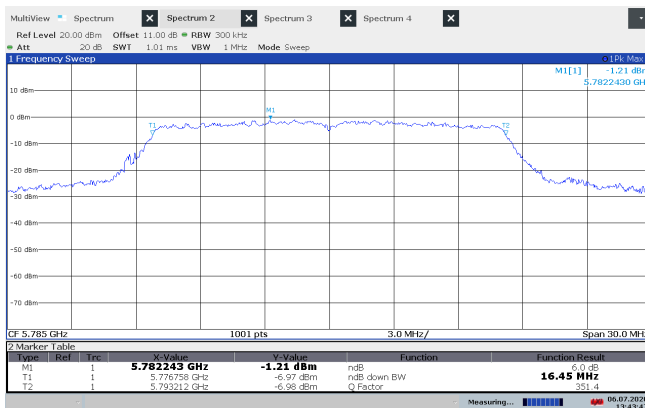
Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.



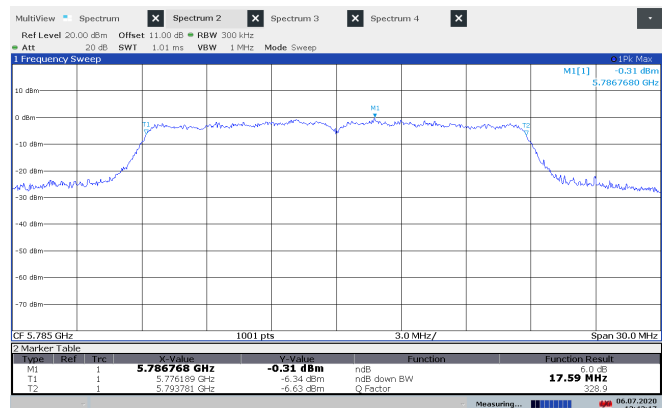
DTS BW, 5745 MHz, 802.11a, 6Mb



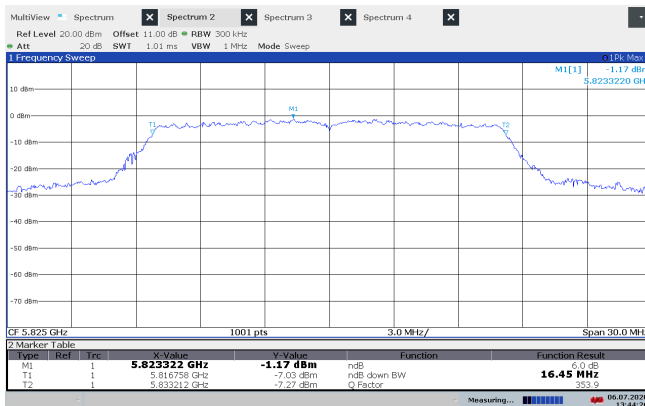
DTS BW, 5745 MHz, 802.11n, HT20



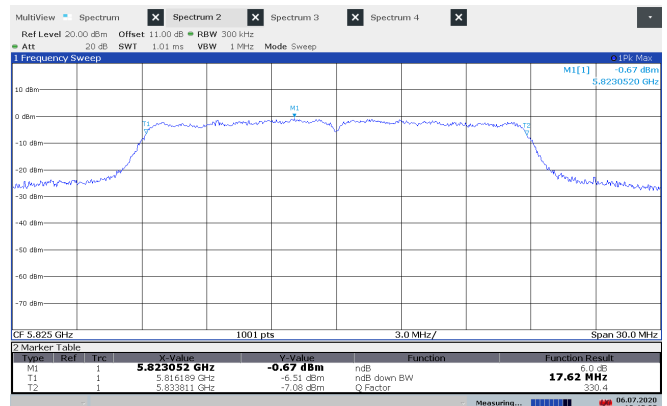
DTS BW, 5785 MHz, 802.11a, 6Mb



DTS BW, 5785 MHz, 802.11n, HT20



DTS BW, 5825 MHz, 802.11a, 6Mb



DTS BW, 5825 MHz, 802.11n, HT20

3.4 Peak Power Spectral Density

FCC 15.407(a)

ISED RSS-247, Issue 2, Clause 6.2

Measurement procedure: ANSI C63.10-2013 Clause 12.5

Test Results: Complies

Measurement Data:

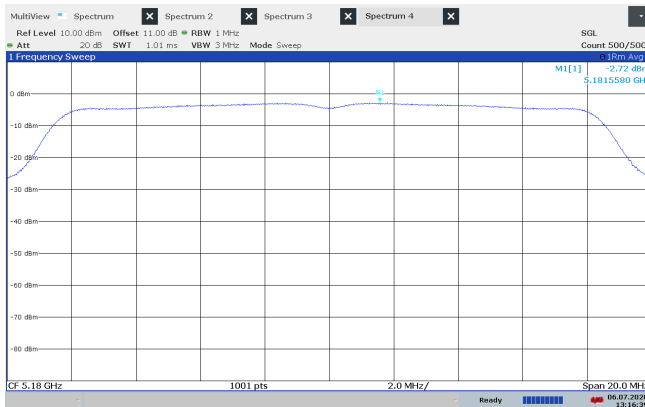
Ch. No.	Nominal Frequency (MHz)	Measured Value (dBm)	
		802.11a 6Mb	802.11n HT20
36	5180	-6.0	-4.0
40	5200	-4.6	-4.3
48	5240	-3.9	-3.5
52	5280	-3.8	-3.6
64	5320	-3.9	-5.6
100	5500	-9.3	-10.0
116	5580	-8.0	-6.1
140	5700	-7.6	-7.6
149	5745	-13.2	-13.6
157	5785	-10.6	-9.7
165	5825	-10.1	-9.4

Values in U-NII Band 3 that were measured with RBW=1MHz have been corrected by -3dB.

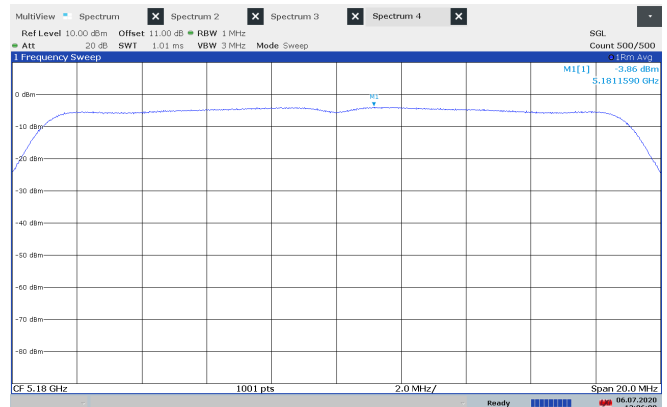
Antenna Gain is less than 6 dBi for all frequencies above.

Limits:

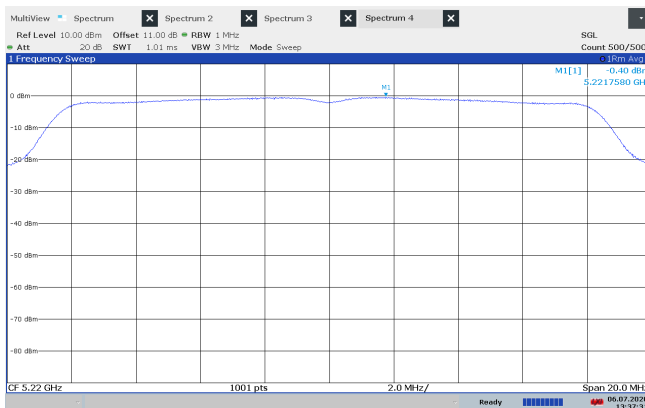
Frequency Band	FCC 15.407(a)	RSS-247, Issue 2
5150 – 5250 MHz	Less than 17 dBm/MHz for master device Less than 11 dBm/MHz for client device	Less than 10 dBm/MHz e.i.r.p. (only indoor allowed)
5250 – 5350 MHz	Less than 11 dBm/MHz	Less than 11 dBm/MHz
5470 – 5725 MHz	Less than 11 dBm/MHz	Less than 11 dBm/MHz
5725 – 5825 MHz	Less than 30 dBm/500kHz	Less than 30 dBm/500kHz
	If Antenna Gain is more than 6 dBi the limit above is reduced by the amount exceeding 6 dBi	



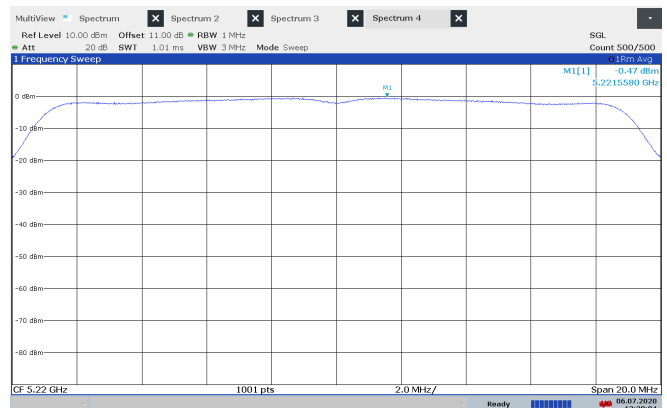
PSD, 5180 MHz, 802.11a, 6Mb



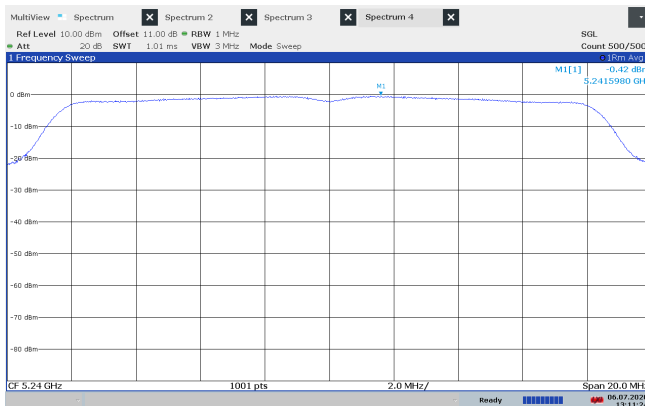
PSD, 5180 MHz, 802.11n, HT20



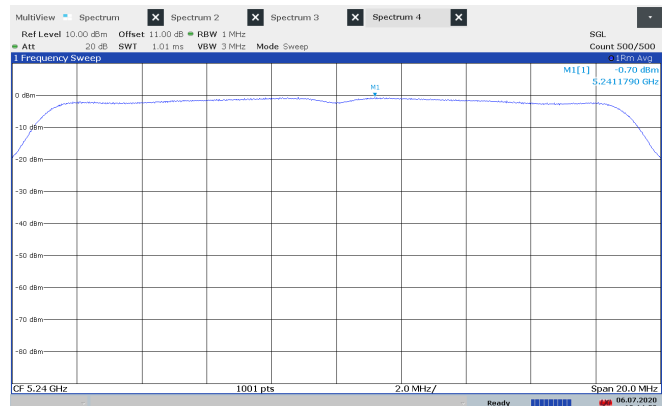
PSD, 5220 MHz, 802.11a, 6Mb



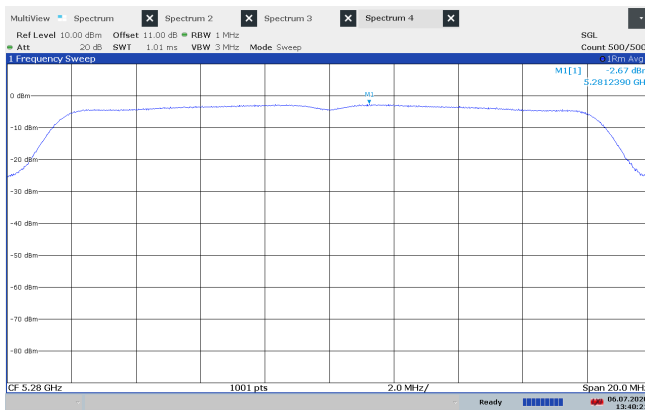
PSD, 5220 MHz, 802.11n, HT20



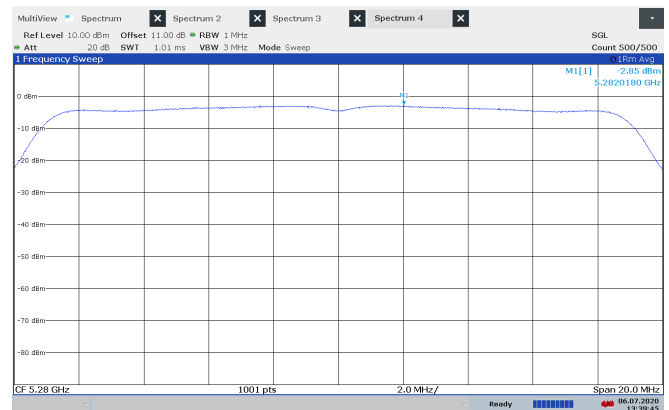
PSD, 5240 MHz, 802.11a, 6Mb



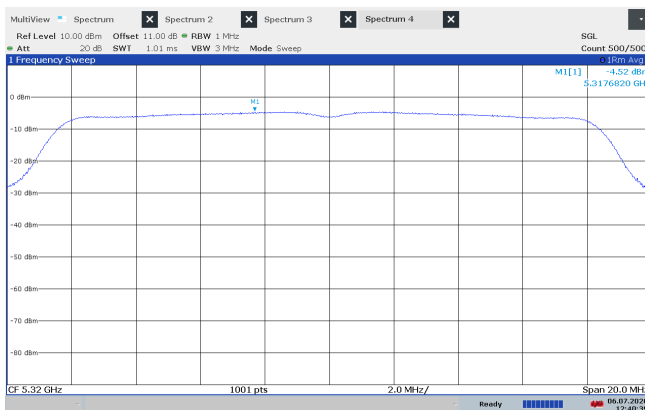
PSD, 5240 MHz, 802.11n, HT20



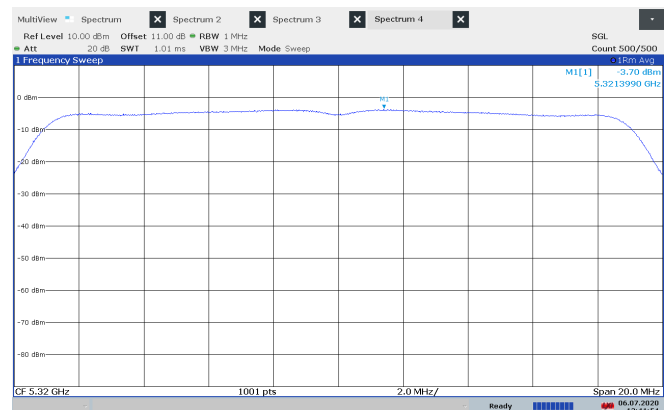
PSD, 5280 MHz, 802.11a, 6Mb



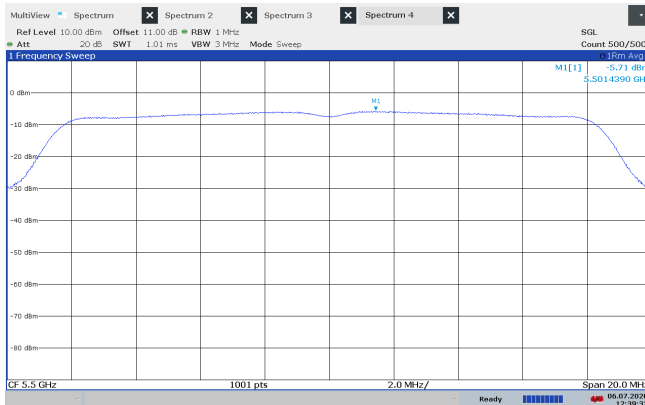
PSD, 5280 MHz, 802.11n, HT20



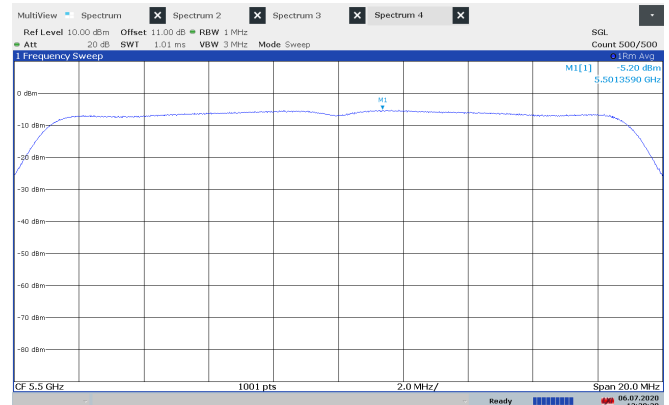
PSD, 5320 MHz, 802.11a, 6Mb



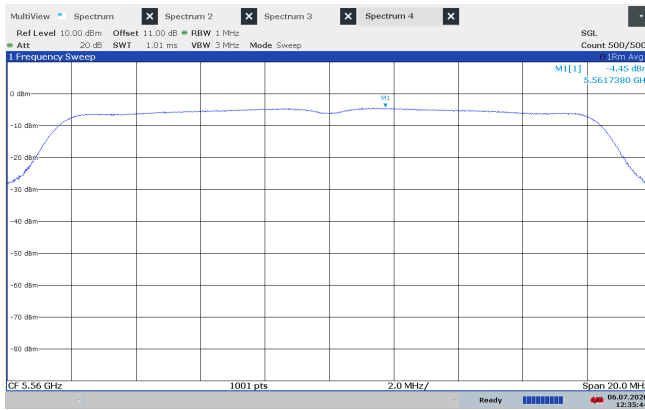
PSD, 5320 MHz, 802.11n, HT20



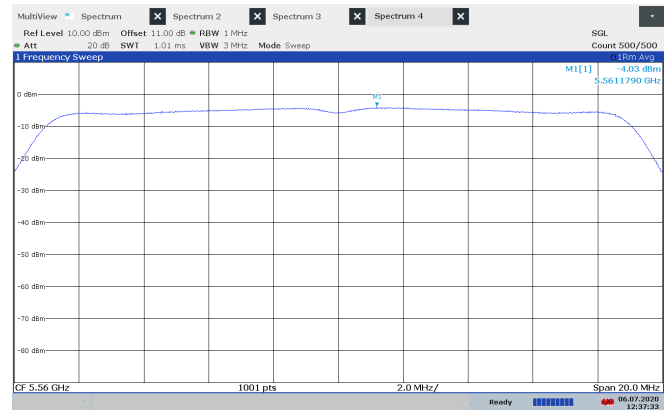
PSD, 5500 MHz, 802.11a, 6Mb



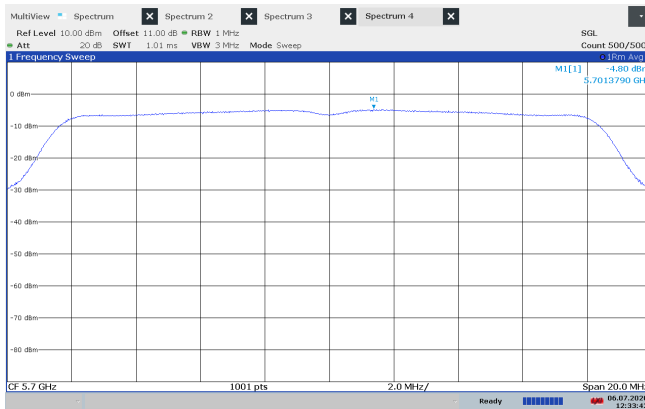
PSD, 5500 MHz, 802.11n, HT20



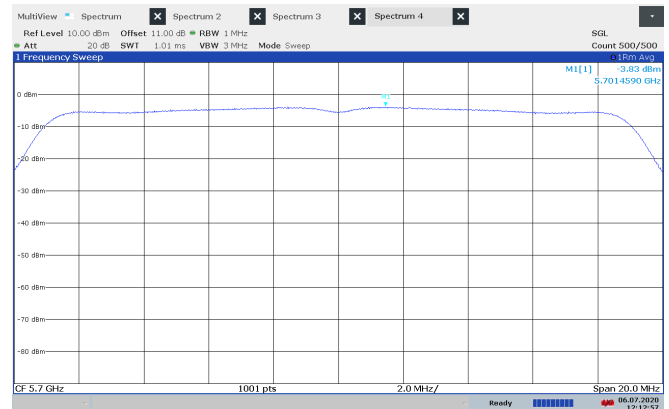
PSD, 5560 MHz, 802.11a, 6Mb



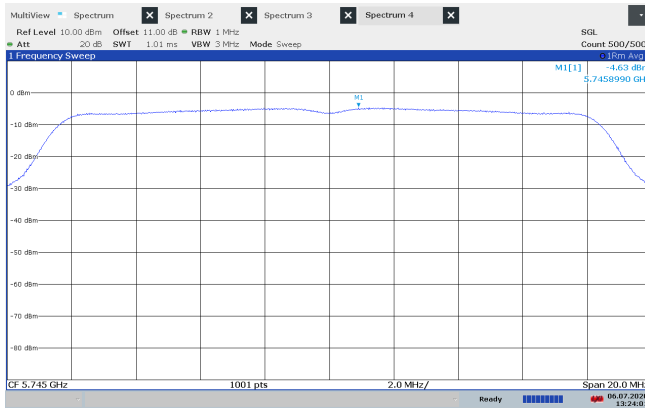
PSD, 5560 MHz, 802.11n, HT20



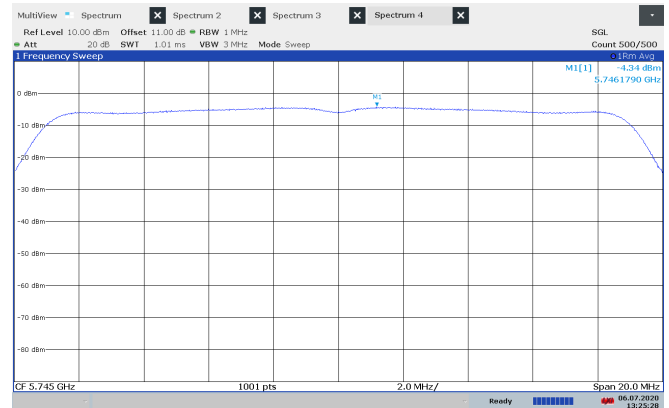
PSD, 5700 MHz, 802.11a, 6Mb



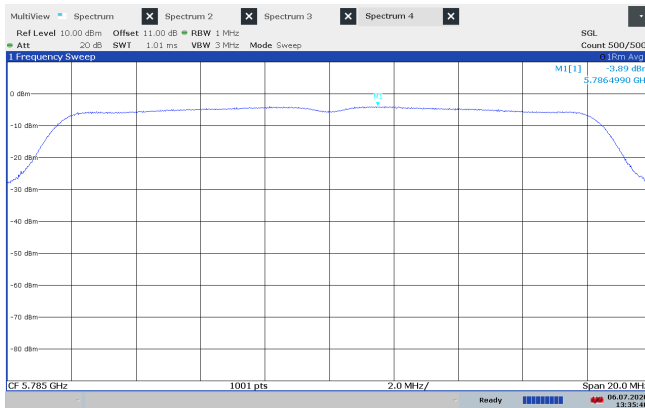
PSD, 5700 MHz, 802.11n, HT20



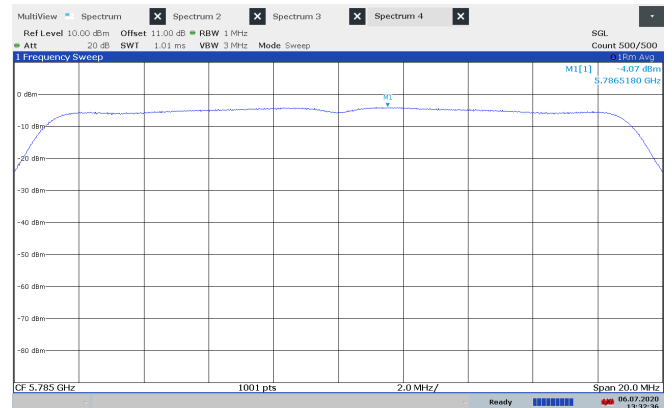
PSD, 5745 MHz, 802.11a, 6Mb



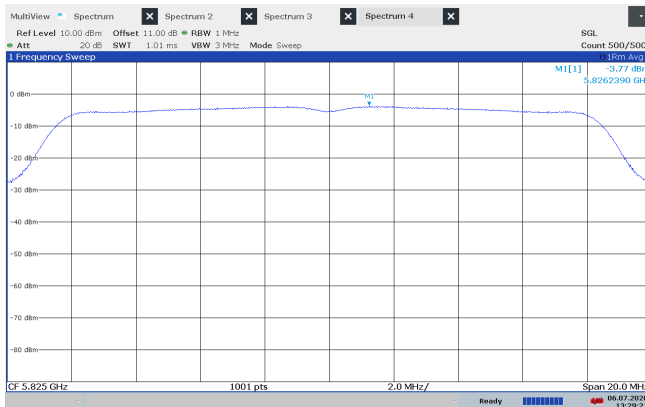
PSD, 5745 MHz, 802.11n, HT20



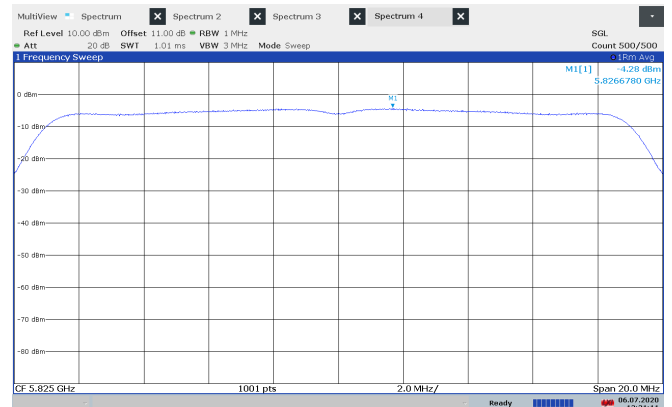
PSD, 5785 MHz, 802.11a, 6Mb



PSD, 5785 MHz, 802.11n, HT20



PSD, 5825 MHz, 802.11a, 6Mb



PSD, 5825 MHz, 802.11n, HT20