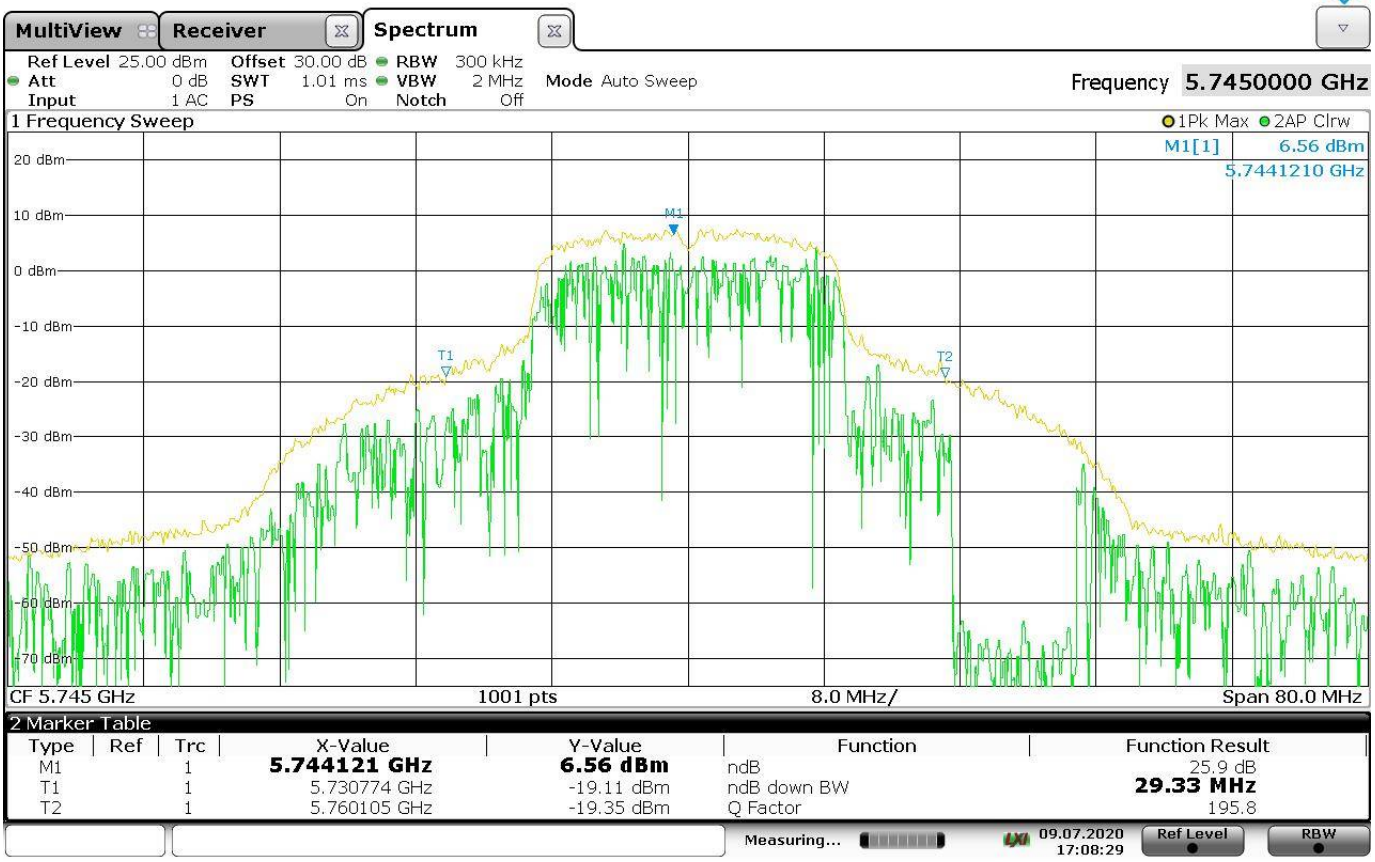
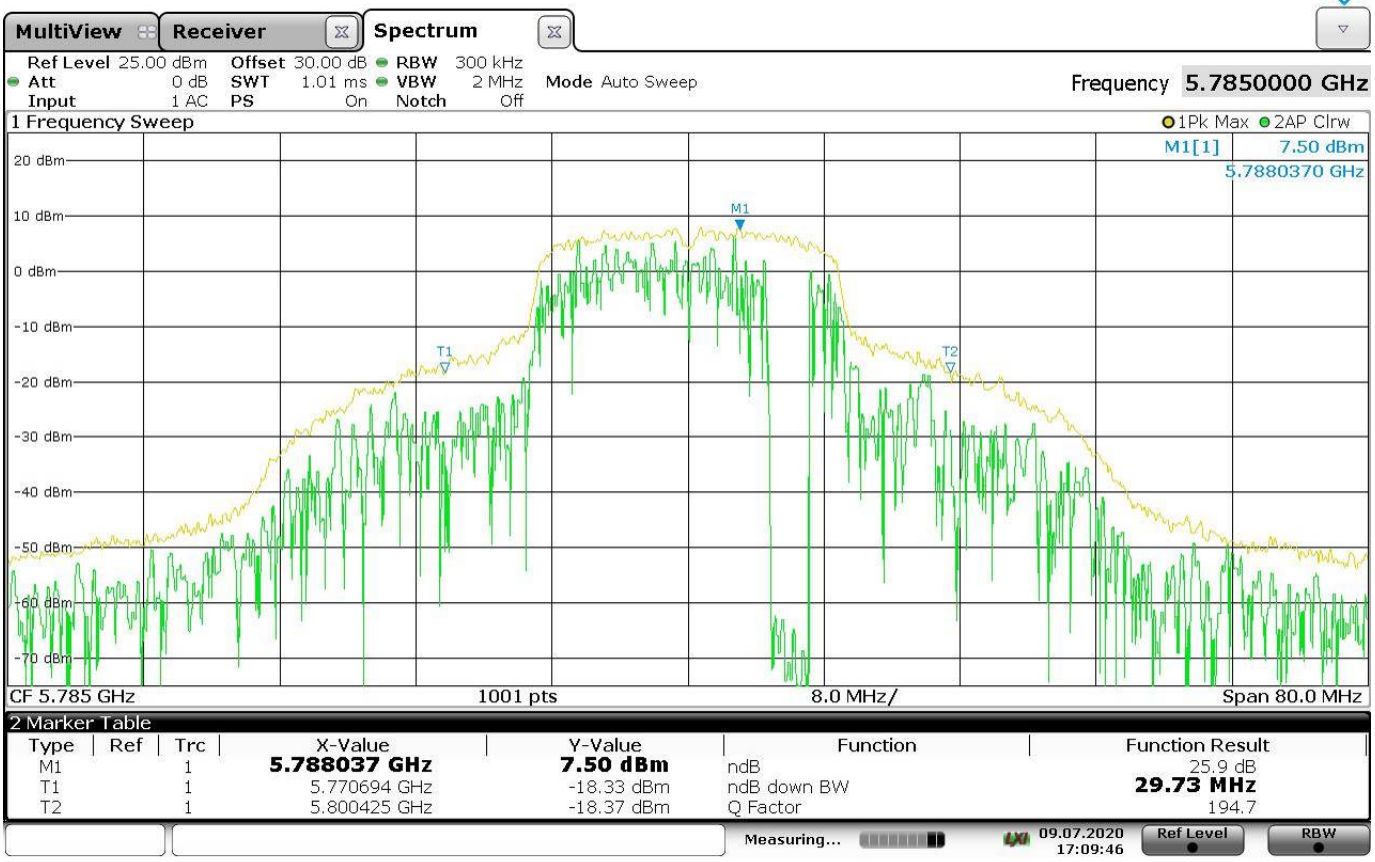
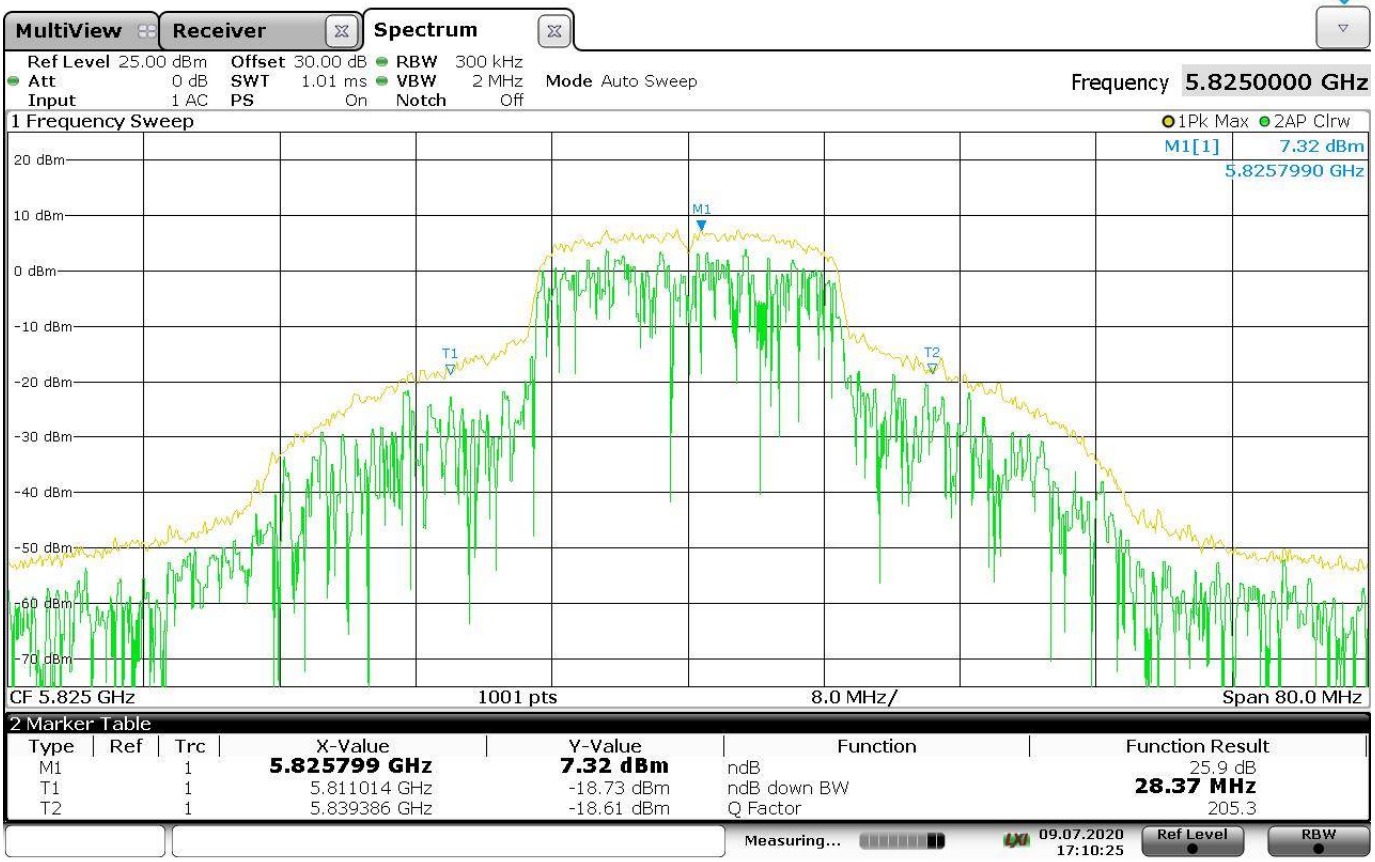


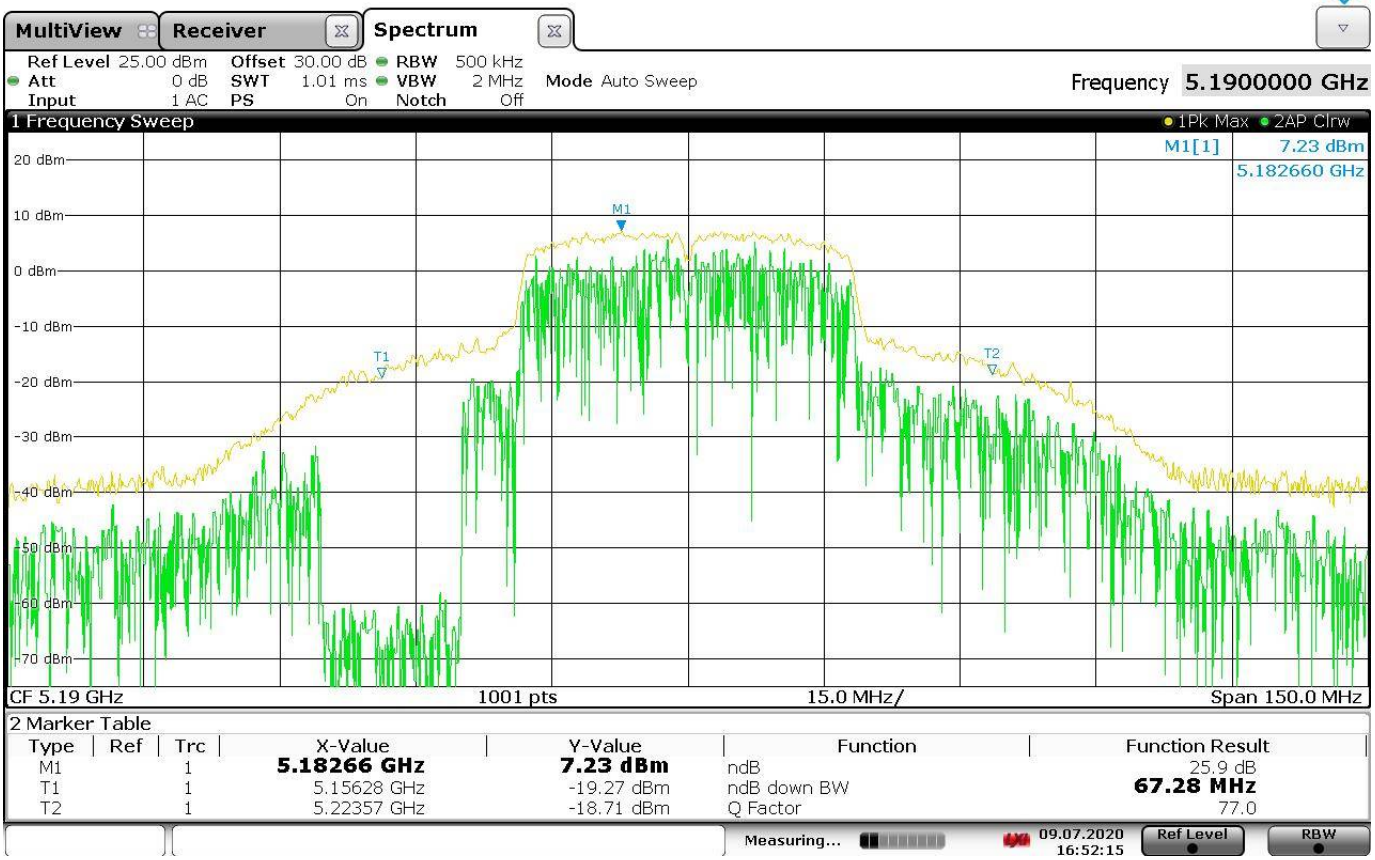
802.11n (HT20), 6.5Mbps



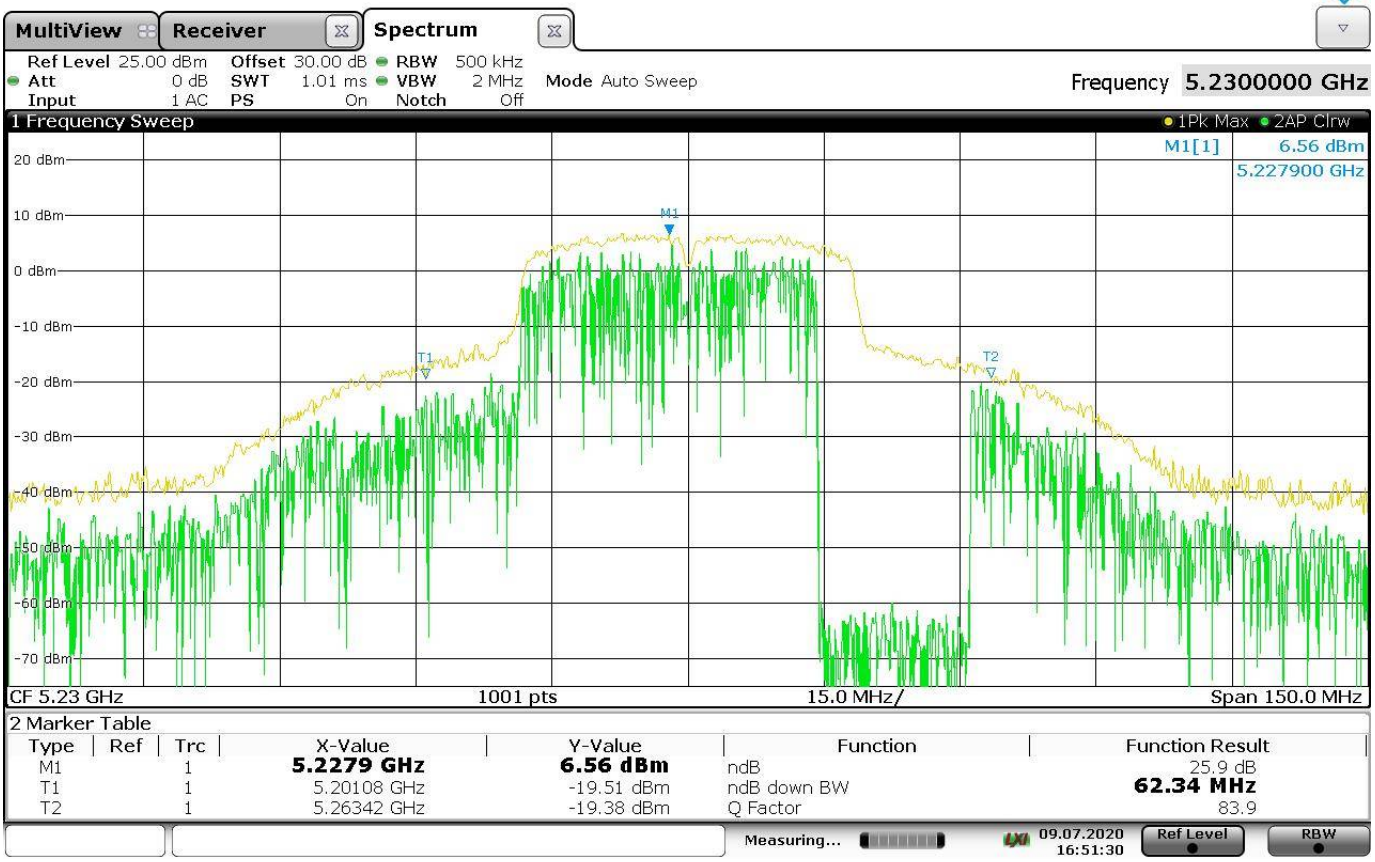
802.11n (HT20), 6.5Mbps



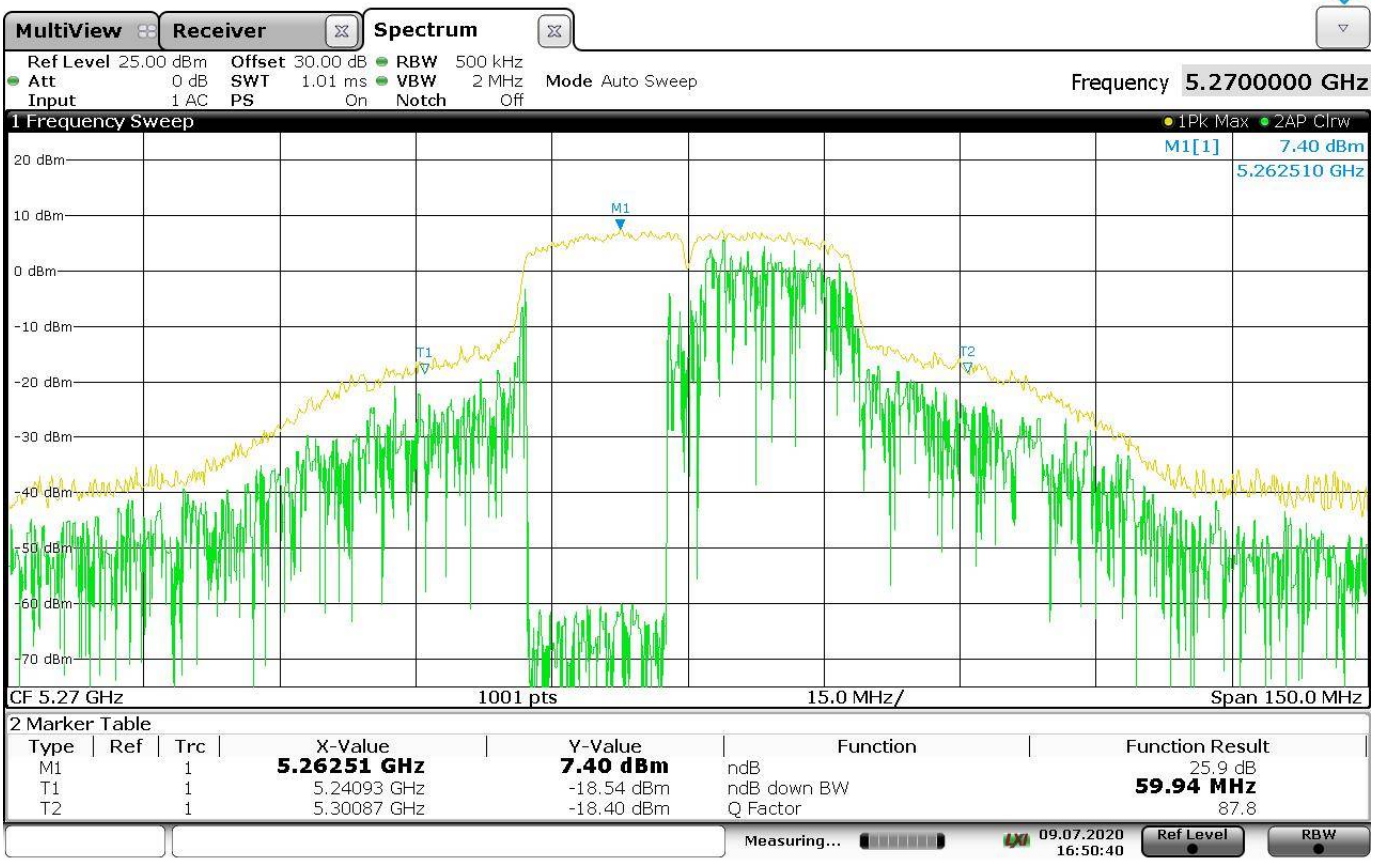
802.11n (HT20), 6.5Mbps



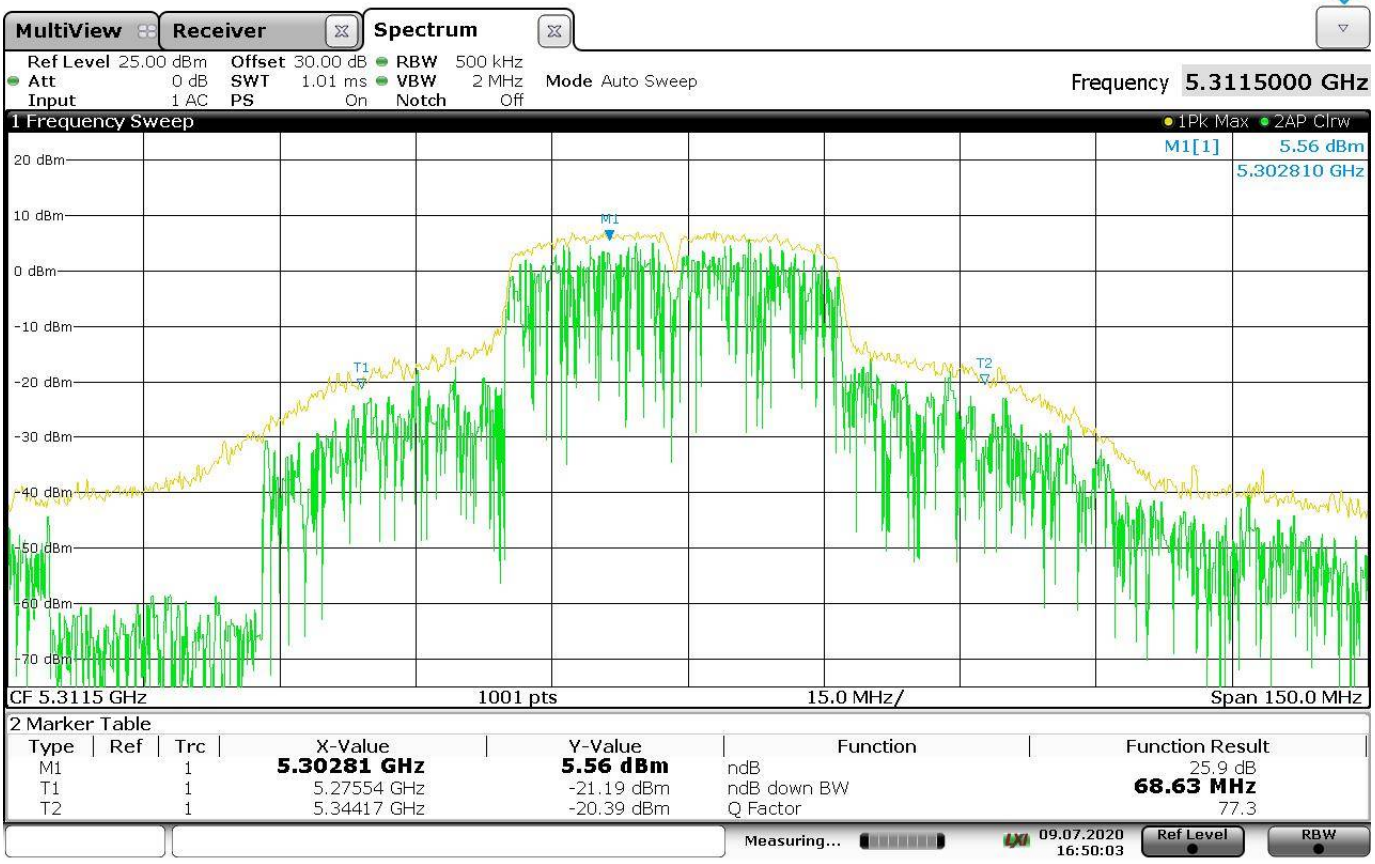
802.11n (HT40), 13.5 Mbps,



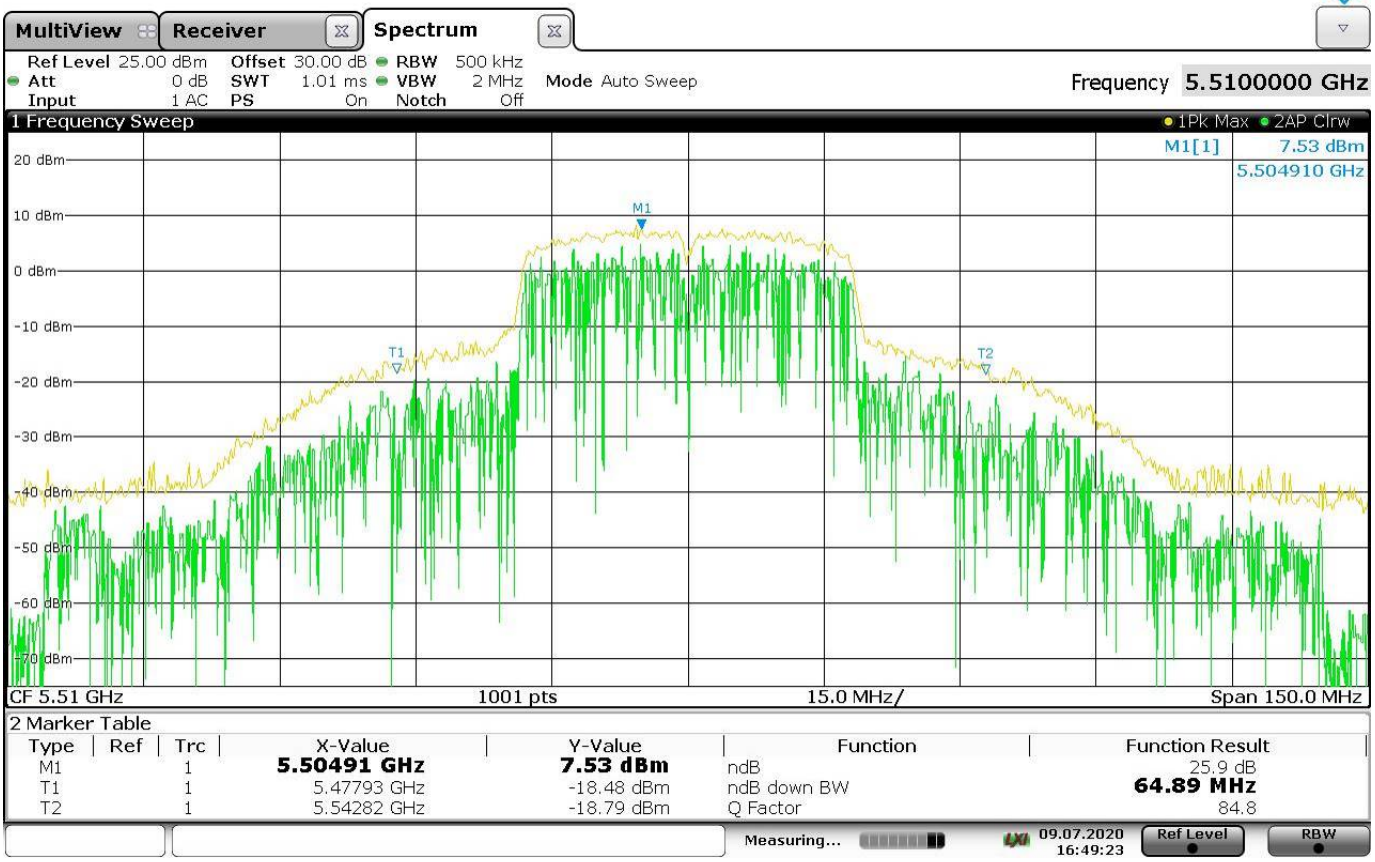
802.11n (HT40), 13.5 Mbps,



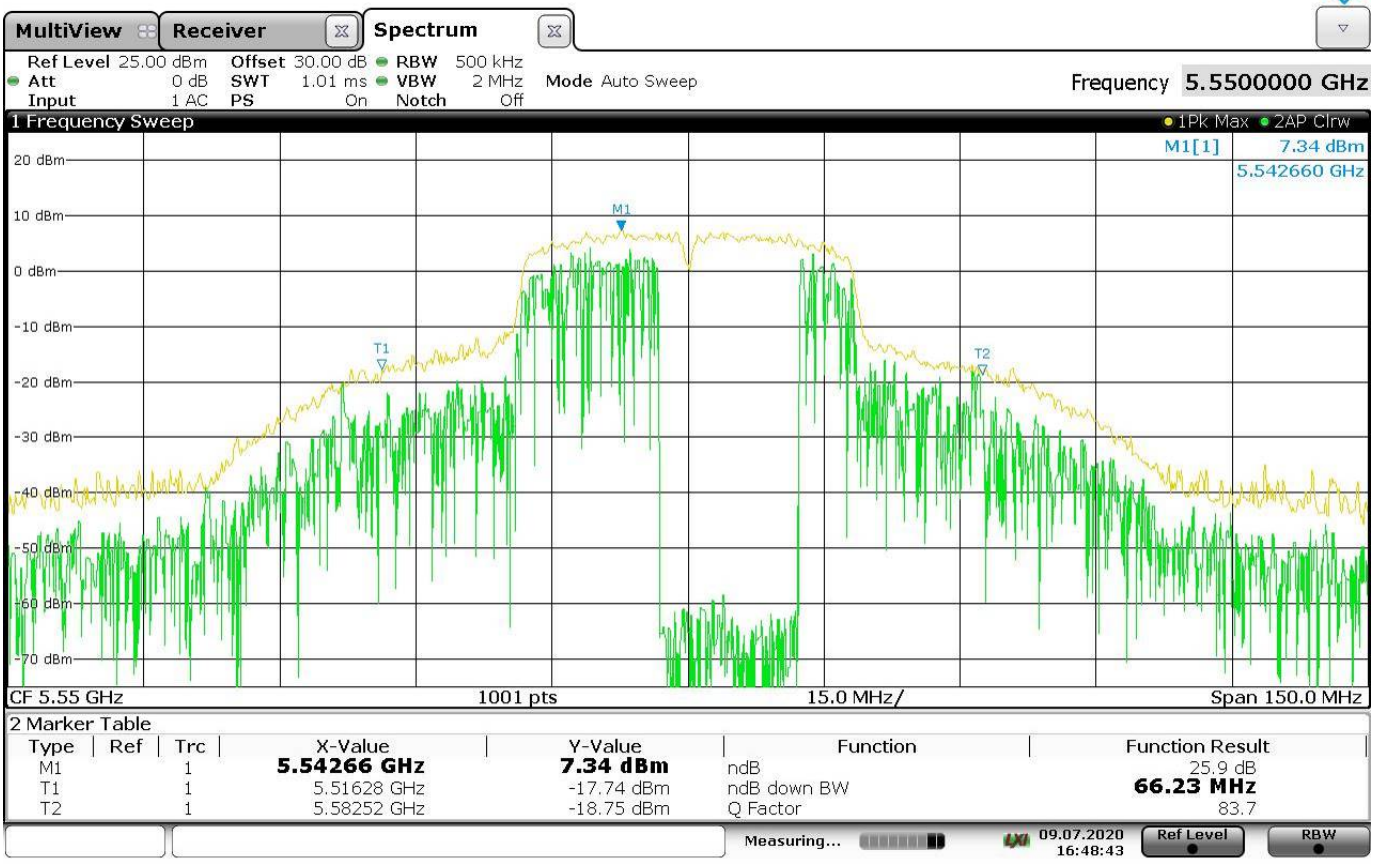
802.11n (HT40), 13.5 Mbps,



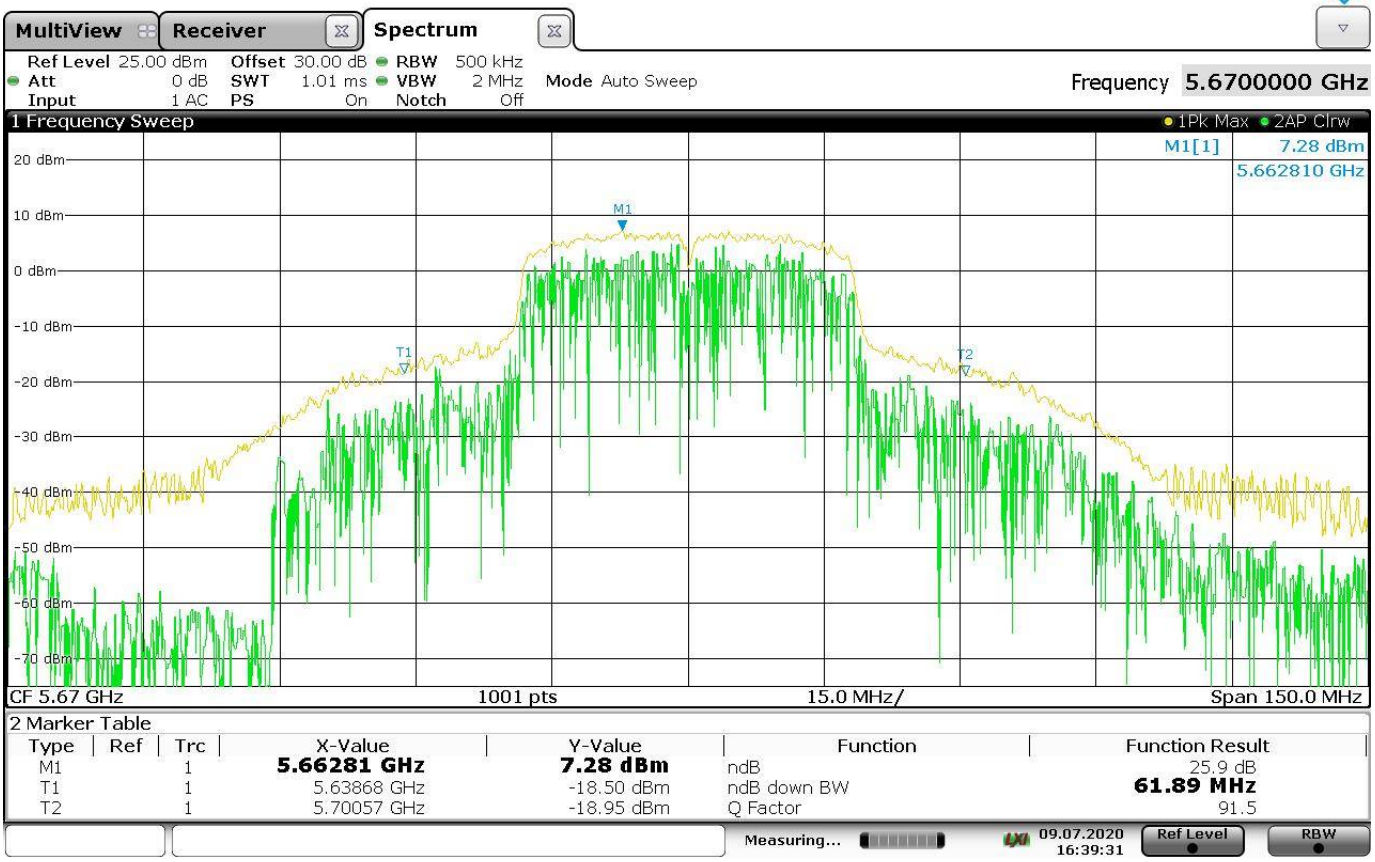
802.11n (HT40), 13.5 Mbps,



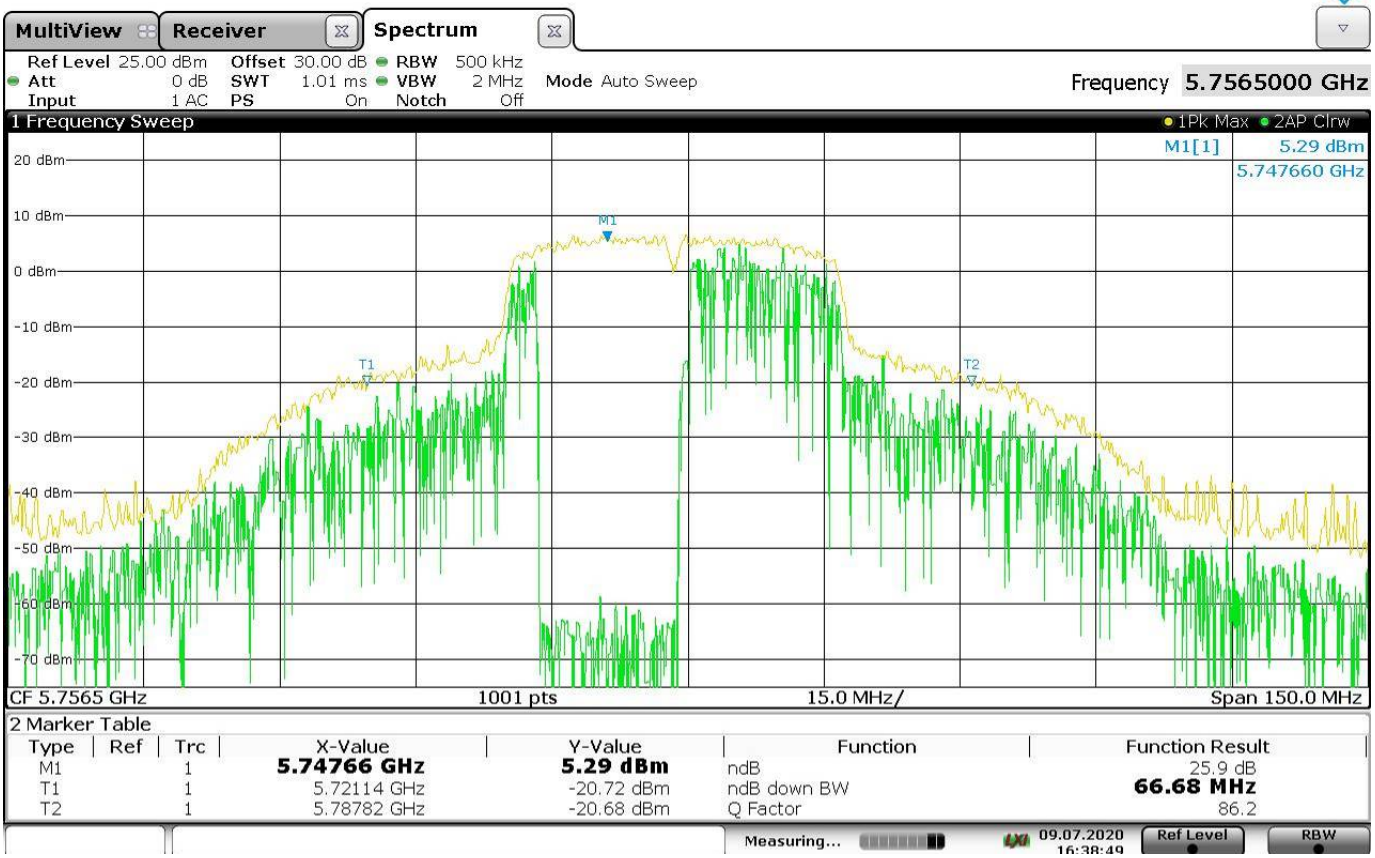
802.11n (HT40), 13.5 Mbps,



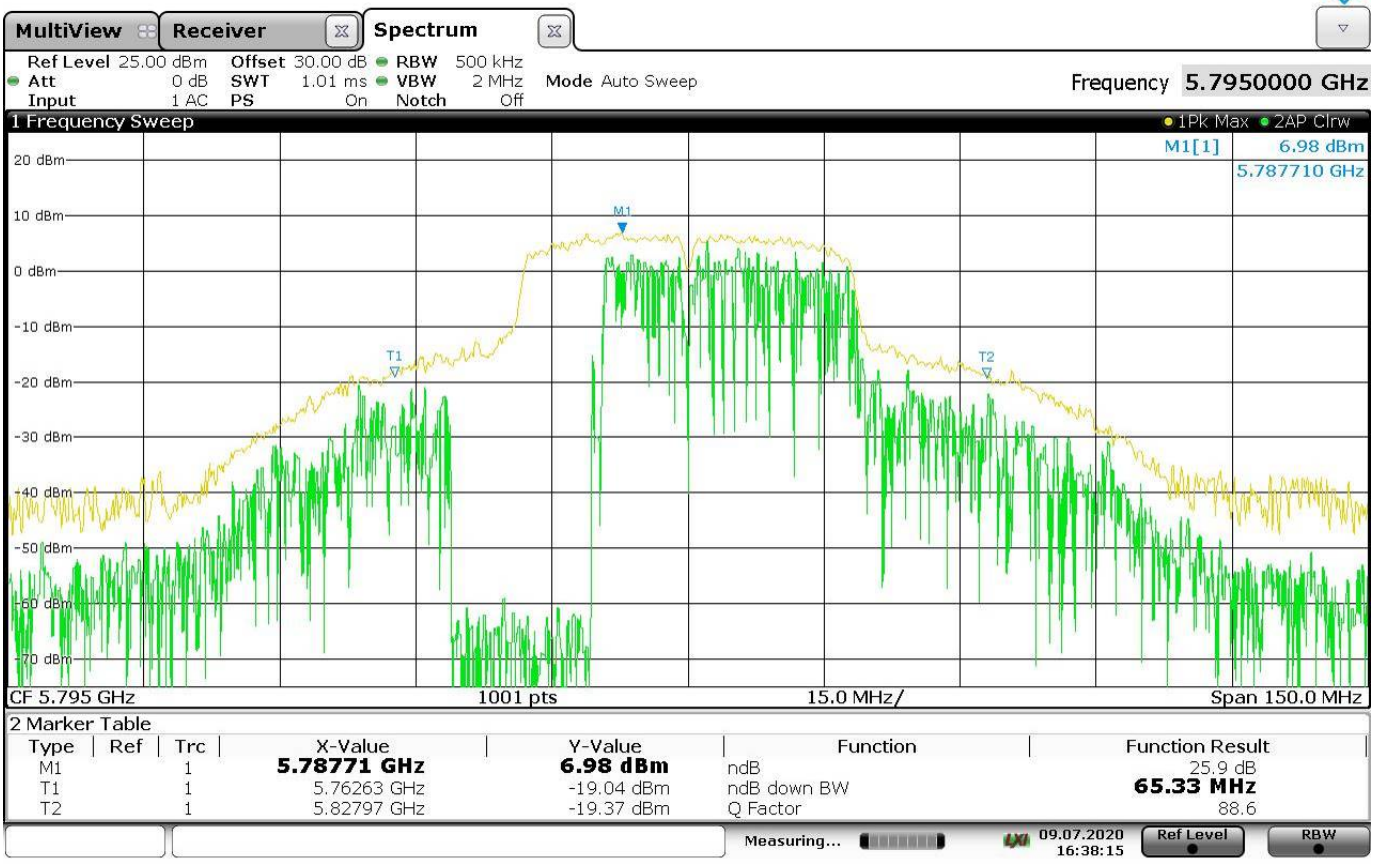
802.11n (HT40), 13.5 Mbps,



802.11n (HT40), 13.5 Mbps,



802.11n (HT40), 13.5 Mbps,



802.11n (HT40), 13.5 Mbps,

7.3 FCC 15.407 output power and spectral density limits

7.3.1 Definitions and limits

FCC:

(i) For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24 dBm) provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED:
LE-LAN devices are restricted to indoor operation only in the band 5150–5250 MHz.
The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or $10 + 10 \times \log_{10}(B)$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

FCC:
For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

ISED: band 5.725–5.85 GHz
The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

FCC:

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz

ISED:

Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.
The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz

Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.

Calculations:

ower measurements results chain 0 fcc										26 dB Band (MHz)	99 % Band (MHz)
Modulation	Frequency,	Conducted output power, dBm			Antenna gain,	EIRP,	EIRP limit,	EIRP margin,			
	MHz	Measured	Limit	Margin, dB	dBi	dBm	dBm	dB	mW		
	5180	13.4	30.0	-16.6	2.3	15.7	36.0	-20.3	21.8	34.5	17.9
	5200	13.3	30.0	-16.7	2.3	15.6	36.0	-20.4	21.3	30.6	17.5
	5240	12.8	30.0	-17.2	2.3	15.1	36.0	-20.9	19.1	27.5	16.8
	5260	16.6	24.0	-7.4	2.3	18.9	30.0	-11.1	46.1	27.3	16.7
	5300	16.9	24.0	-7.1	2.3	19.2	30.0	-10.8	48.5	33.0	17.2
	5320	16.8	24.0	-7.2	2.3	19.1	30.0	-10.9	48.0	29.9	16.8
	5500	16.8	24.0	-7.2	2.3	19.1	30.0	-10.9	47.8	33.7	**17.1**
	5580	16.9	24.0	-7.1	2.3	19.2	30.0	-10.8	49.0	27.3	17.0
	5660	16.2	24.0	-7.8	2.3	18.5	30.0	-11.5	41.9	30.5	16.6
	5700	16.2	24.0	-7.9	2.3	18.5	30.0	-11.6	41.2	27.0	16.7
802.11a, 6Mbps, single chain	5745	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	30.6	16.9
	5785	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	27.1	17.0
	5825	15.3	30.0	-14.7	2.3	17.6	36.0	-18.4	33.6	30.8	16.9

lsed

power measurements results chain 0											
Modulation	Frequency,	dBm			Antenna gain,	EIRP,	EIRP limit,	EIRP margin,			
	MHz	Measured	Limit	Margin, dB	dBi	dBm	dBm	dB			
	5180	13.4	16.5	-3.1	2.3	15.7	22.5	-6.8	21.8	34.5	17.9
	5200	13.3	16.4	-3.2	2.3	15.6	22.4	-6.9	21.3	30.6	17.5
	5240	12.8	16.2	-3.4	2.3	15.1	22.2	-7.1	19.1	27.5	16.8
	5260	16.6	23.2	-6.6	2.3	18.9	29.2	-10.3	46.1	27.3	16.7
	5300	16.9	23.4	-6.5	2.3	19.2	29.4	-10.2	48.5	33.0	17.2
	5320	16.8	23.3	-6.4	2.3	19.1	29.3	-10.1	48.0	29.9	16.8
	5500	16.8	23.3	-6.5	2.3	19.1	29.3	-10.2	47.8	33.7	**17.1**
	5580	16.9	23.3	-6.4	2.3	19.2	29.3	-10.1	49.0	27.3	17.0
	5660	16.2	23.2	-7.0	2.3	18.5	29.2	-10.7	41.9	30.5	16.6
	5700	16.2	23.2	-7.1	2.3	18.5	29.2	-10.8	41.2	27.0	16.7
802.11a, 6Mbps, single chain	5745	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	30.6	16.9
	5785	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	27.1	17.0
	5825	15.3	30.0	-14.7	2.3	17.6	36.0	-18.4	33.6	30.8	16.9

7.3.2 Test summary

Test start date:	June 03, 2020

7.3.3 Observations, settings and special notes

As per manufacturer declaration, EUT is for indoor fix operation only. EUT was configured to continuous transmit mode during tests.
Output power was tested using RMS power meter.
The highest and lowest data rate setting have been investigated, only the worst-cases were presented.

Spectrum analyzer settings for PSD measurement:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	> EBW
Detector mode	RMS
Trace mode	Power Averaging over 100 sweeps

7.3.4 Test data

Table 7.3-1: *FCC Output power measurements results*

ower measurements results chain 0 fcc										26 dB Band (MHz)	99 % Band (MHz)
Modulation	Frequency,	Conducted output power, dBm			Antenna gain,	EIRP,	EIRP limit,	EIRP margin,			
	MHz	Measured	Limit	Margin, dB	dBi	dBm	dBm	dB	mW		
	5180	13.4	30.0	-16.6	2.3	15.7	36.0	-20.3	21.8	34.5	17.9
	5200	13.3	30.0	-16.7	2.3	15.6	36.0	-20.4	21.3	30.6	17.5
	5240	12.8	30.0	-17.2	2.3	15.1	36.0	-20.9	19.1	27.5	16.8
	5260	16.6	24.0	-7.4	2.3	18.9	30.0	-11.1	46.1	27.3	16.7
	5300	16.9	24.0	-7.1	2.3	19.2	30.0	-10.8	48.5	33.0	17.2
	5320	16.8	24.0	-7.2	2.3	19.1	30.0	-10.9	48.0	29.9	16.8
	5500	16.8	24.0	-7.2	2.3	19.1	30.0	-10.9	47.8	33.7	**17.1**
	5580	16.9	24.0	-7.1	2.3	19.2	30.0	-10.8	49.0	27.3	17.0
	5660	16.2	24.0	-7.8	2.3	18.5	30.0	-11.5	41.9	30.5	16.6
	5700	16.2	24.0	-7.9	2.3	18.5	30.0	-11.6	41.2	27.0	16.7
802.11a, 6Mbps, single chain	5745	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	30.6	16.9
	5785	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	27.1	17.0
	5825	15.3	30.0	-14.7	2.3	17.6	36.0	-18.4	33.6	30.8	16.9
lsed											
power measurements results chain 0											
Modulation	Frequency,	dBm			Antenna gain,	EIRP,	EIRP limit,	EIRP margin,			
	MHz	Measured	Limit	Margin, dB	dBi	dBm	dBm	dB			
	5180	13.4	16.5	-3.1	2.3	15.7	22.5	-6.8	21.8	34.5	17.9
	5200	13.3	16.4	-3.2	2.3	15.6	22.4	-6.9	21.3	30.6	17.5
	5240	12.8	16.2	-3.4	2.3	15.1	22.2	-7.1	19.1	27.5	16.8
	5260	16.6	23.2	-6.6	2.3	18.9	29.2	-10.3	46.1	27.3	16.7
	5300	16.9	23.4	-6.5	2.3	19.2	29.4	-10.2	48.5	33.0	17.2
	5320	16.8	23.3	-6.4	2.3	19.1	29.3	-10.1	48.0	29.9	16.8
	5500	16.8	23.3	-6.5	2.3	19.1	29.3	-10.2	47.8	33.7	**17.1**
	5580	16.9	23.3	-6.4	2.3	19.2	29.3	-10.1	49.0	27.3	17.0
	5660	16.2	23.2	-7.0	2.3	18.5	29.2	-10.7	41.9	30.5	16.6
	5700	16.2	23.2	-7.1	2.3	18.5	29.2	-10.8	41.2	27.0	16.7
802.11a, 6Mbps, single chain	5745	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	30.6	16.9
	5785	12.2	30.0	-17.8	2.3	14.5	36.0	-21.5	16.6	27.1	17.0
	5825	15.3	30.0	-14.7	2.3	17.6	36.0	-18.4	33.6	30.8	16.9

ut power measurements results

Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,						26 dB Band (MHz)
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB	Ch0 mW	Ch1 mW	CH0 dBm	Ch2 dBm	CH1+CH2 dm	
	5180	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	36.0	-14.2	38.9	49.5	15.9	17.0	19.5	34.5
	5200	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	36.0	-14.2	38.6	50.2	15.9	17.0	19.5	30.6
	5240	15.9	16.6	19.3	30.0	-10.7	2.3	21.6	36.0	-14.4	38.6	45.7	15.9	16.6	19.3	27.5
	5260	15.7	16.5	19.1	24.0	-4.9	2.3	21.4	30.0	-8.6	36.9	44.4	15.7	16.5	19.1	27.3
	5300	15.9	16.3	19.1	24.0	-4.9	2.3	21.4	30.0	-8.6	39.3	43.0	15.9	16.3	19.1	33.0
	5320	16.0	16.3	19.2	24.0	-4.8	2.3	21.5	30.0	-8.5	39.4	43.0	16.0	16.3	19.2	29.9
	5500	**15.8**	**16.2**	**19.0**	**24.0**	**-5.0**	**2.3**	**21.3**	30.0	**-8.7**	**37.7**	**41.9**	**15.8**	**16.2**	**19.0**	33.7
	5580	15.1	15.7	18.4	24.0	-5.6	2.3	20.7	30.0	-9.3	32.3	36.7	15.1	15.7	18.4	27.3
	5660	14.7	13.9	17.4	24.0	-6.6	2.3	19.7	30.0	-10.3	29.6	24.7	14.7	13.9	17.4	30.5
	5700	13.8	14.6	17.2	24.0	-6.8	2.3	19.5	30.0	-10.5	23.8	29.0	13.8	14.6	17.2	27.0
	5745	13.9	14.7	17.3	30.0	-12.7	2.3	19.6	36.0	-16.4	24.3	29.6	13.9	14.7	17.3	30.6
802.11a,	5785	13.8	15.3	17.6	30.0	-12.4	2.3	19.9	36.0	-16.1	24.0	33.6	13.8	15.3	17.6	27.1
6Mbps, multi chain	5825	13.4	16.3	18.1	30.0	-11.9	2.3	20.4	36.0	-15.6	21.6	42.6	13.4	16.3	18.1	30.8

ut power measurements results

Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,						
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB						
	5180	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	36.0	-14.2	38.9	49.5	15.9	17.0	19.5	35.1
	5200	15.9	16.9	19.4	30.0	-10.6	2.3	21.7	36.0	-14.3	38.6	48.5	15.9	16.9	19.4	33.6
	5240	15.5	16.3	18.9	30.0	-11.1	2.3	21.2	36.0	-14.8	35.6	42.8	15.5	16.3	18.9	28.7
	5260	15.4	16.2	18.8	24.0	-5.2	2.3	21.1	30.0	-8.9	34.4	41.3	15.4	16.2	18.8	31.5
	5300	15.7	16.1	18.9	24.0	-5.1	2.3	21.2	30.0	-8.8	37.0	40.9	15.7	16.1	18.9	32.3
	5320	15.7	16.0	18.8	24.0	-5.2	2.3	21.1	30.0	-8.9	36.7	39.8	15.7	16.0	18.8	29.6
	5500	15.2	15.8	18.5	24.0	-5.5	2.3	20.8	30.0	-9.2	33.1	38.0	15.2	15.8	18.5	32.3
	5580	14.7	15.6	18.2	24.0	-5.8	2.3	20.5	30.0	-9.5	29.5	36.4	14.7	15.6	18.2	34.5
	5660	13.8	14.6	17.2	24.0	-6.8	2.3	19.5	30.0	-10.5	23.9	29.1	13.8	14.6	17.2	29.3
	5700	13.6	14.6	17.1	24.0	-6.9	2.3	19.4	30.0	-10.6	23.0	28.6	13.6	14.6	17.1	28.5
	5745	14.6	12.6	16.7	30.0	-13.3	2.3	19.0	36.0	-17.0	28.9	18.0	14.6	12.6	16.7	29.3
	5785	13.5	12.6	16.1	30.0	-13.9	2.3	18.4	36.0	-17.6	22.5	18.2	13.5	12.6	16.1	29.7
802.11n	5825	12.6	12.3	15.4	30.0	-14.6	2.3	17.7	36.0	-18.3	18.0	16.9	12.6	12.3	15.4	28.4
(HT20), 6.5Mbps,																

ut power measurements results

Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,						
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB						
	5190	15.6	17.0	19.4	30.0	-10.6	2.3	21.7	36.0	-14.3	36.6	49.7	15.6	17.0	19.4	67.3
	5230	15.8	16.7	19.3	30.0	-10.7	2.3	21.6	36.0	-14.4	38.2	46.8	15.8	16.7	19.3	62.3
	5270	15.5	16.2	18.9	30.0	-11.1	2.3	21.2	36.0	-14.8	35.3	42.0	15.5	16.2	18.9	60.0
	5310	15.8	16.2	19.0	24.0	-5.0	2.3	21.3	36.0	-14.7	37.8	42.1	15.8	16.2	19.0	68.6
	5510	15.4	16.1	18.7	24.0	-5.3	2.3	21.0	36.0	-15.0	34.4	40.3	15.4	16.1	18.7	64.9
	5550	15.8	15.8	18.8	24.0	-5.2	2.3	21.1	36.0	-14.9	38.1	38.4	15.8	15.8	18.8	66.2
	5670	13.9	14.9	17.4	24.0	-6.6	2.3	19.7	36.0	-16.3	24.5	31.0	13.9	14.9	17.4	61.9
	5755	13.4	14.0	16.7	30.0	-13.3	2.3	19.0	36.0	-17.0	21.9	25.2	13.4	14.0	16.7	66.7
	5795	13.4	14.2	16.8	30.0	-13.2	2.3	19.1	36.0	-16.9	21.9	26.4	13.4	14.2	16.8	65.3
802.11n (HT40), 13.5 Mbps,																

Ised

ut power measurements results

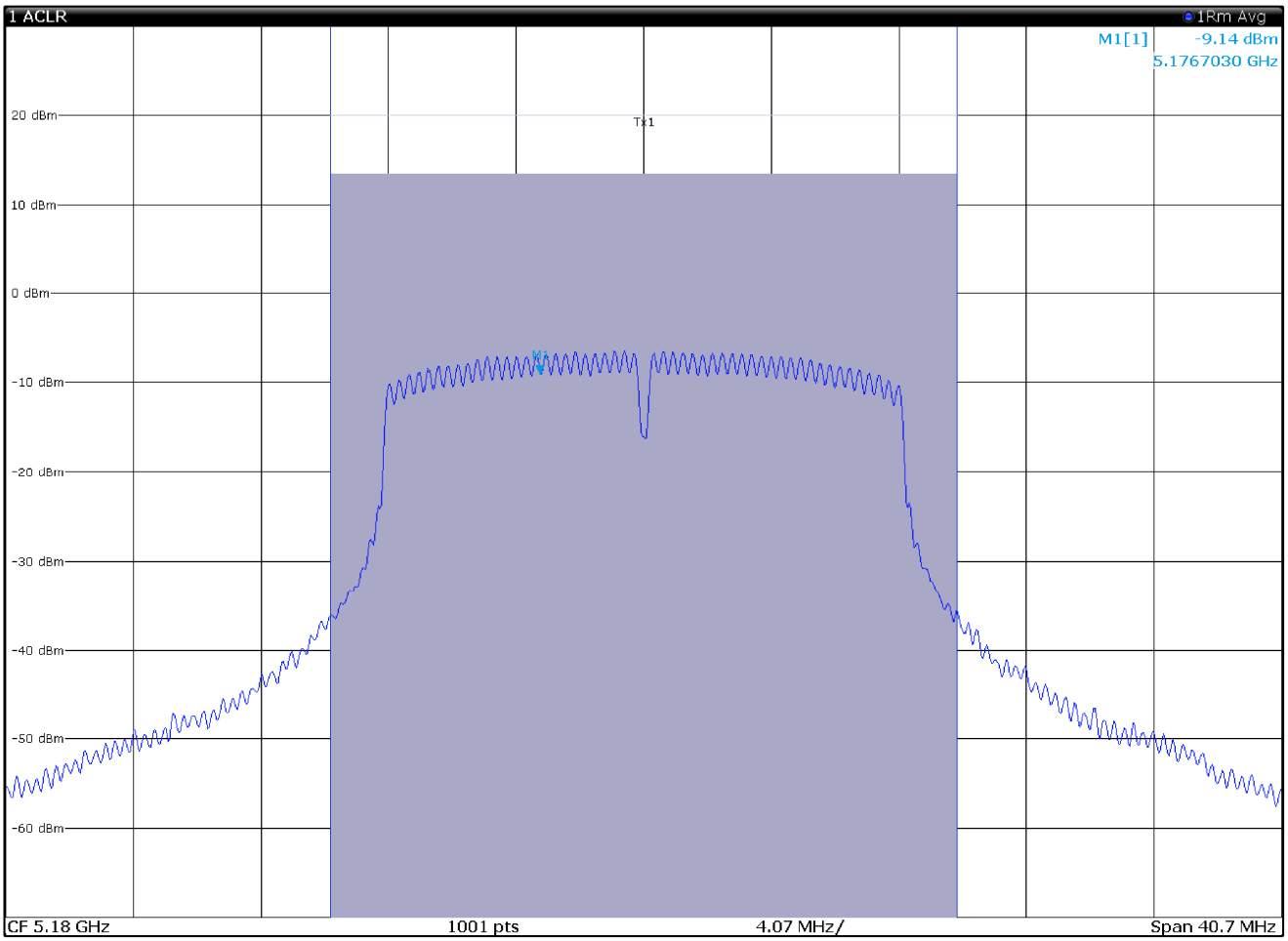
Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,						26 dB Band (MHz)	99 % Band (MHz)
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB	Ch0 mW	Ch1 mW	CH0 dBm	Ch2 dBm	CH1+CH2 dm		
	5180	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	22.5	-0.8	38.9	49.5	15.9	17.0	19.5	34.5	17.9
	5200	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	22.4	-0.6	38.6	50.2	15.9	17.0	19.5	30.6	17.5
	5240	15.9	16.6	19.3	30.0	-10.7	2.3	21.6	22.2	-0.7	38.6	45.7	15.9	16.6	19.3	27.5	16.8
	5260	15.7	16.5	19.1	24.0	-4.9	2.3	21.4	22.2	-0.8	36.9	44.4	15.7	16.5	19.1	27.3	16.7
	5300	15.9	16.3	19.1	24.0	-4.9	2.3	21.4	22.4	-0.9	39.3	43.0	15.9	16.3	19.1	33.0	17.2
	5320	16.0	16.3	19.2	24.0	-4.8	2.3	21.5	22.3	-0.8	39.4	43.0	16.0	16.3	19.2	29.9	16.8
	5500	**15.8**	**16.2**	**19.0**	**24.0**	**-5.0**	**2.3**	**21.3**	22.3	**-1.0**	**37.7**	**41.9**	**15.8**	**16.2**	**19.0**	33.7	**17.1**
	5580	15.1	15.7	18.4	24.0	-5.6	2.3	20.7	22.3	-1.6	32.3	36.7	15.1	15.7	18.4	27.3	17.0
	5660	14.7	13.9	17.4	24.0	-6.6	2.3	19.7	22.1	-2.5	29.6	24.7	14.7	13.9	17.4	30.5	16.4
	5700	13.8	14.6	17.2	30.0	-12.8	2.3	19.5	36.0	-16.5	23.8	29.0	13.8	14.6	17.2	27.0	16.7
	5745	13.9	14.7	17.3	30.0	-12.7	2.3	19.6	36.0	-16.4	24.3	29.6	13.9	14.7	17.3	30.6	16.9
802.11a,	5785	13.8	15.3	17.6	30.0	-12.4	2.3	19.9	36.0	-16.1	24.0	33.6	13.8	15.3	17.6	27.1	16.9
6Mbps, multi chain	5825	13.4	16.3	18.1	30.0	-11.9	2.3	20.4	36.0	-15.6	21.6	42.6	13.4	16.3	18.1	30.8	16.9

ut power measurements results

Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,							
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB							
	5180	15.9	17.0	19.5	30.0	-10.5	2.3	21.8	22.7	-0.9	38.9	49.5	15.9	17.0	19.5	35.1	18.7
	5200	15.9	16.9	19.4	30.0	-10.6	2.3	21.7	22.7	-1.0	38.6	48.5	15.9	16.9	19.4	33.6	18.8
	5240	15.5	16.3	18.9	30.0	-11.1	2.3	21.2	22.5	-1.3	35.6	42.8	15.5	16.3	18.9	28.7	18.0
	5260	15.4	16.2	18.8	24.0	-5.2	2.3	21.1	22.5	-1.4	34.4	41.3	15.4	16.2	18.8	31.5	17.9
	5300	15.7	16.1	18.9	24.0	-5.1	2.3	21.2	22.6	-1.4	37.0	40.9	15.7	16.1	18.9	32.3	18.2
	5320	15.7	16.0	18.8	24.0	-5.2	2.3	21.1	22.6	-1.4	36.7	39.8	15.7	16.0	18.8	29.6	18.0
	5500	15.2	15.8	18.5	24.0	-5.5	2.3	20.8	22.7	-1.8	33.1	38.0	15.2	15.8	18.5	32.3	18.4
	5580	14.7	15.6	18.2	24.0	-5.8	2.3	20.5	22.8	-2.3	29.5	36.4	14.7	15.6	18.2	34.5	18.9
	5660	13.8	14.6	17.2	24.0	-6.8	2.3	19.5	22.2	-2.7	23.9	29.1	13.8	14.6	17.2	29.3	16.6
	5700	13.6	14.6	17.1	24.0	-6.9	2.3	19.4	30.0	-10.6	23.0	28.6	13.6	14.6	17.1	28.5	17.8
	5745	14.6	12.6	16.7	30.0	-13.3	2.3	19.0	36.0	-17.0	28.9	18.0	14.6	12.6	16.7	29.3	17.9
	5785	13.5	12.6	16.1	30.0	-13.9	2.3	18.4	36.0	-17.6	22.5	18.2	13.5	12.6	16.1	29.7	17.9
802.11n (HT20),	5825	12.6	12.3	15.4	30.0	-14.6	2.3	17.7	36.0	-18.3	18.0	16.9	12.6	12.3	15.4	28.4	17.9
6.5Mbps,																	

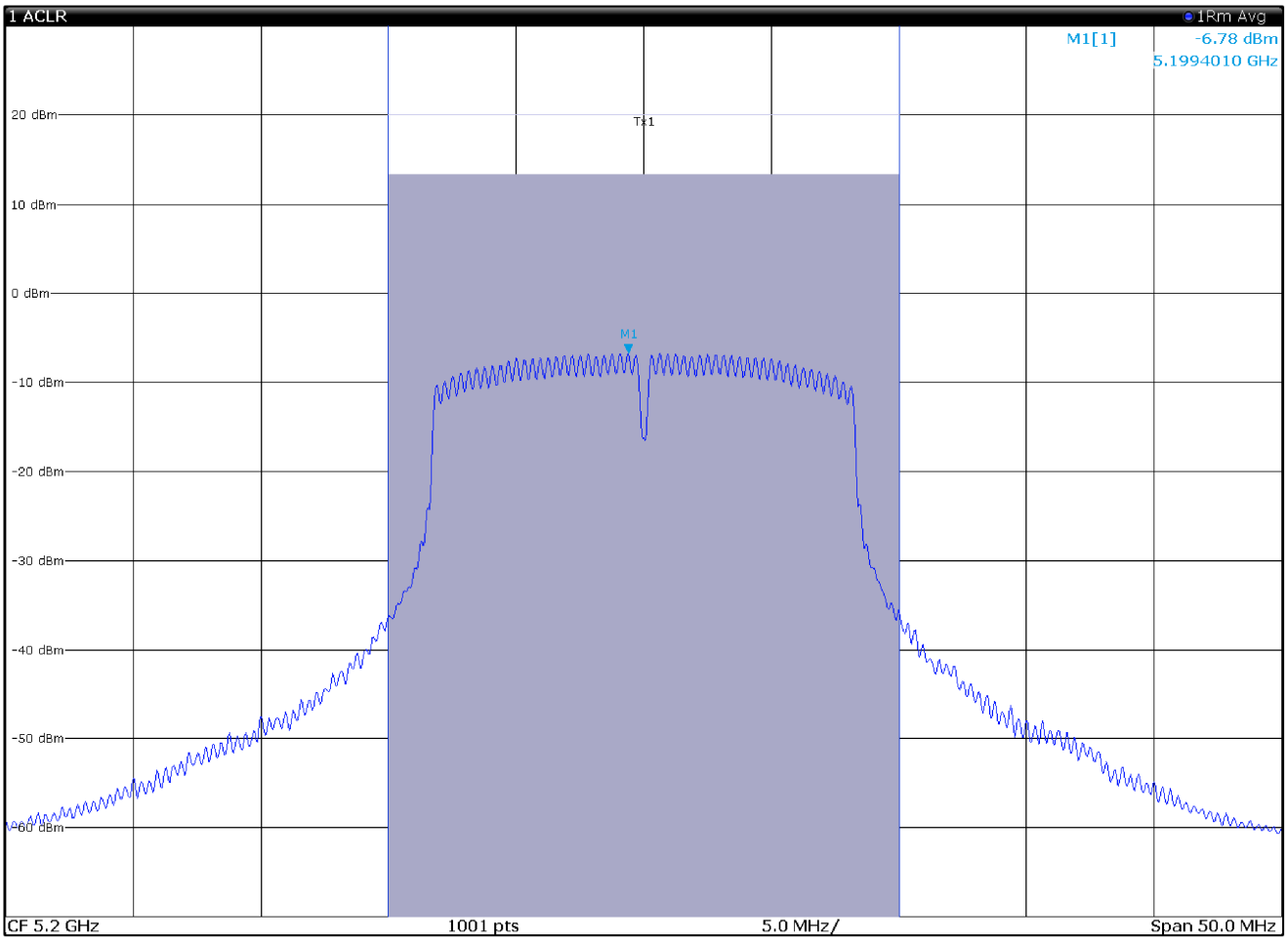
ut power measurements results

Modulation	Frequency,	Conducted output power, dBm					Antenna gain,	EIRP,	EIRP limit,	EIRP margin,							
	MHz	Measured ch 0	Measured ch1	Sum ch0 + ch1	Limit	Margin, dB	dBi	dBm	dBm	dB							
	5190	15.6	17.0	19.4	30.0	-10.6	2.3	21.7	23.0	-1.3	36.6	49.7	15.6	17.0	19.4	67.3	37.0
	5230	15.8	16.7	19.3	30.0	-10.7	2.3	21.6	23.0	-1.4	38.2	46.8	15.8	16.7	19.3	62.3	36.7
	5270	15.5	16.2	18.9	30.0	-11.1	2.3	21.2	23.0	-1.8	35.3	42.0	15.5	16.2	18.9	60.0	36.6
	5310	15.8	16.2	19.0	24.0	-5.0	2.3	21.3	25.6	-4.3	37.8	42.1	15.8	16.2	19.0	68.6	36.8
	5510	15.4	16.1	18.7	24.0	-5.3	2.3	21.0	25.7	-4.6	34.4	40.3	15.4	16.1	18.7	64.9	37.2
	5550	15.8	15.8	18.8	24.0	-5.2	2.3	21.1	25.7	-4.6	38.1	38.4	15.8	15.8	18.8	66.2	37.3
	5670	13.9	14.9	17.4	24.0	-6.6	2.3	19.7	25.7	-6.0	24.5	31.0	13.9	14.9	17.4	61.9	36.5
	5755	13.4	14.0	16.7	30.0	-13.3	2.3	19.0	36.0	-17.0	21.9	25.2	13.4	14.0	16.7	66.7	36.6
	5795	13.4	14.2	16.8	30.0	-13.2	2.3	19.1	36.0	-16.9	21.9	26.4	13.4	14.2	16.8	65.3	36.7
802.11n (HT40), 13.5 Mbps,																	



2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**13.38 dBm**
Tx Total			**13.38 dBm**

Output power TX 5180 MHz, CH36, 802.11a, 6Mbps, single chain



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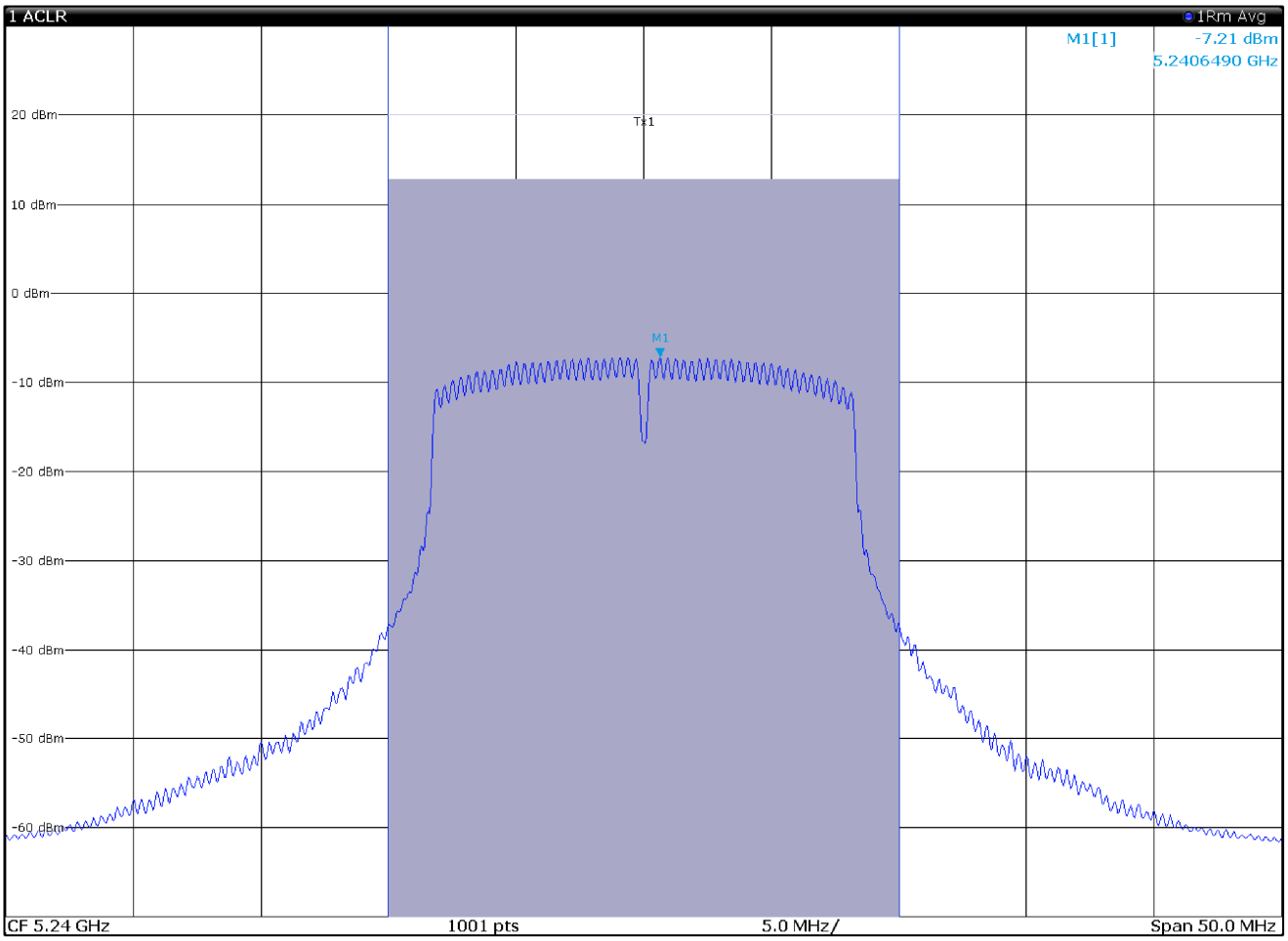
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**13.28 dBm**
Tx Total			**13.28 dBm**

Output power TX 5200 MHz, CH40, 802.11a, 6Mbps, single chain



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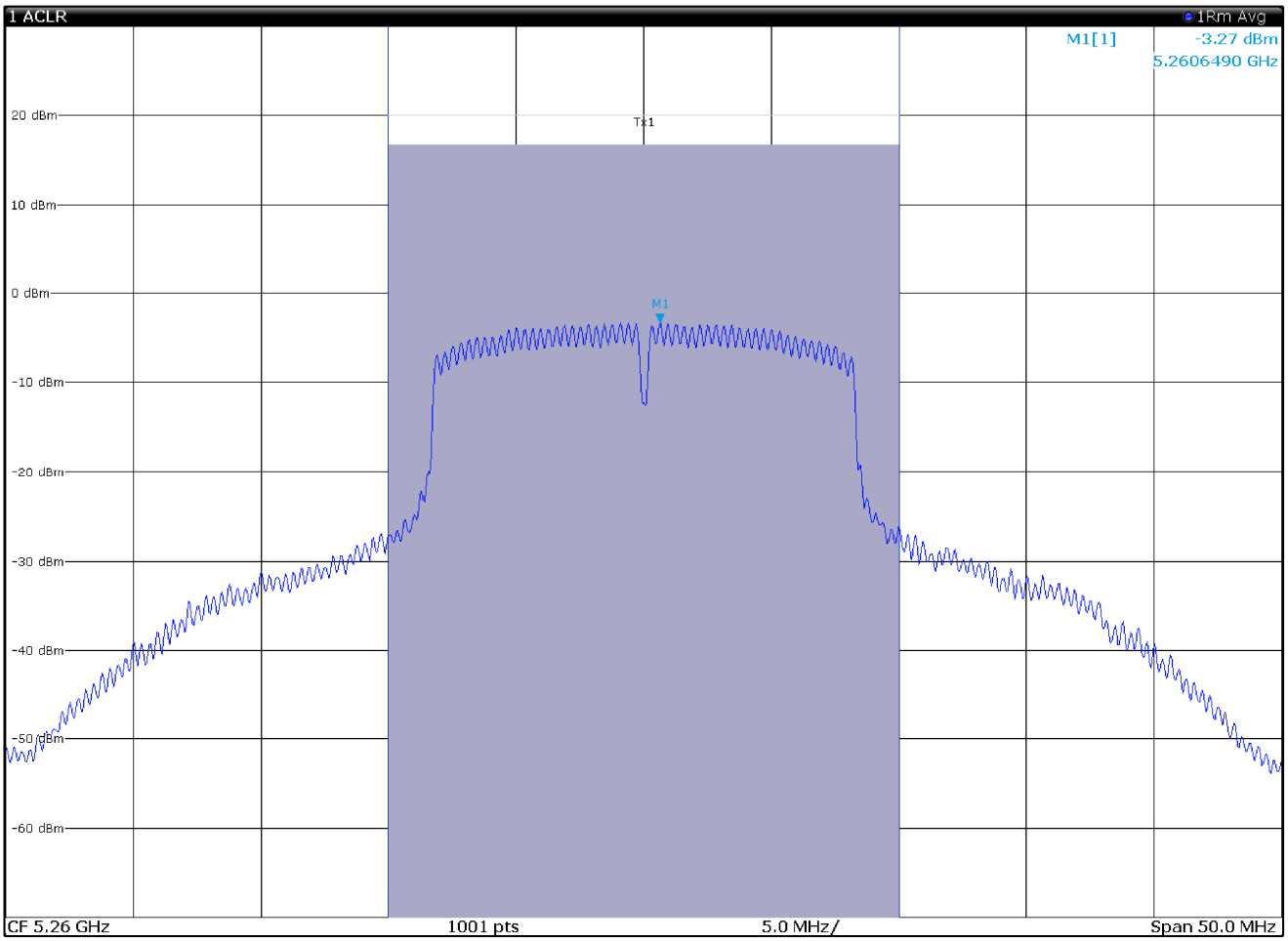
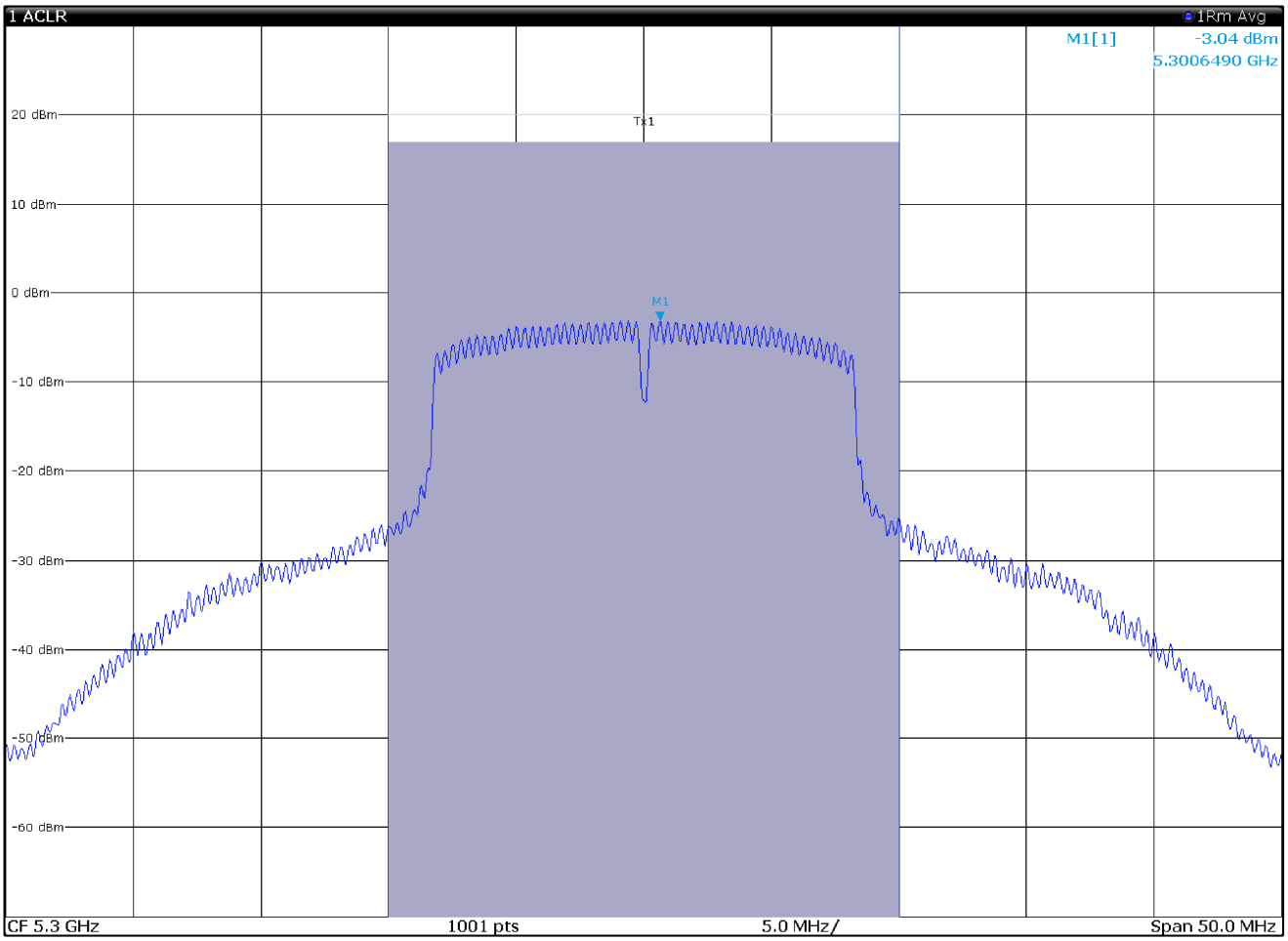
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**12.80 dBm**
Tx Total			**12.80 dBm**

Output power TX 5240 MHz, CH40, 802.11a, 6Mbps, single chain



2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.64 dBm**
Tx Total			**16.64 dBm**

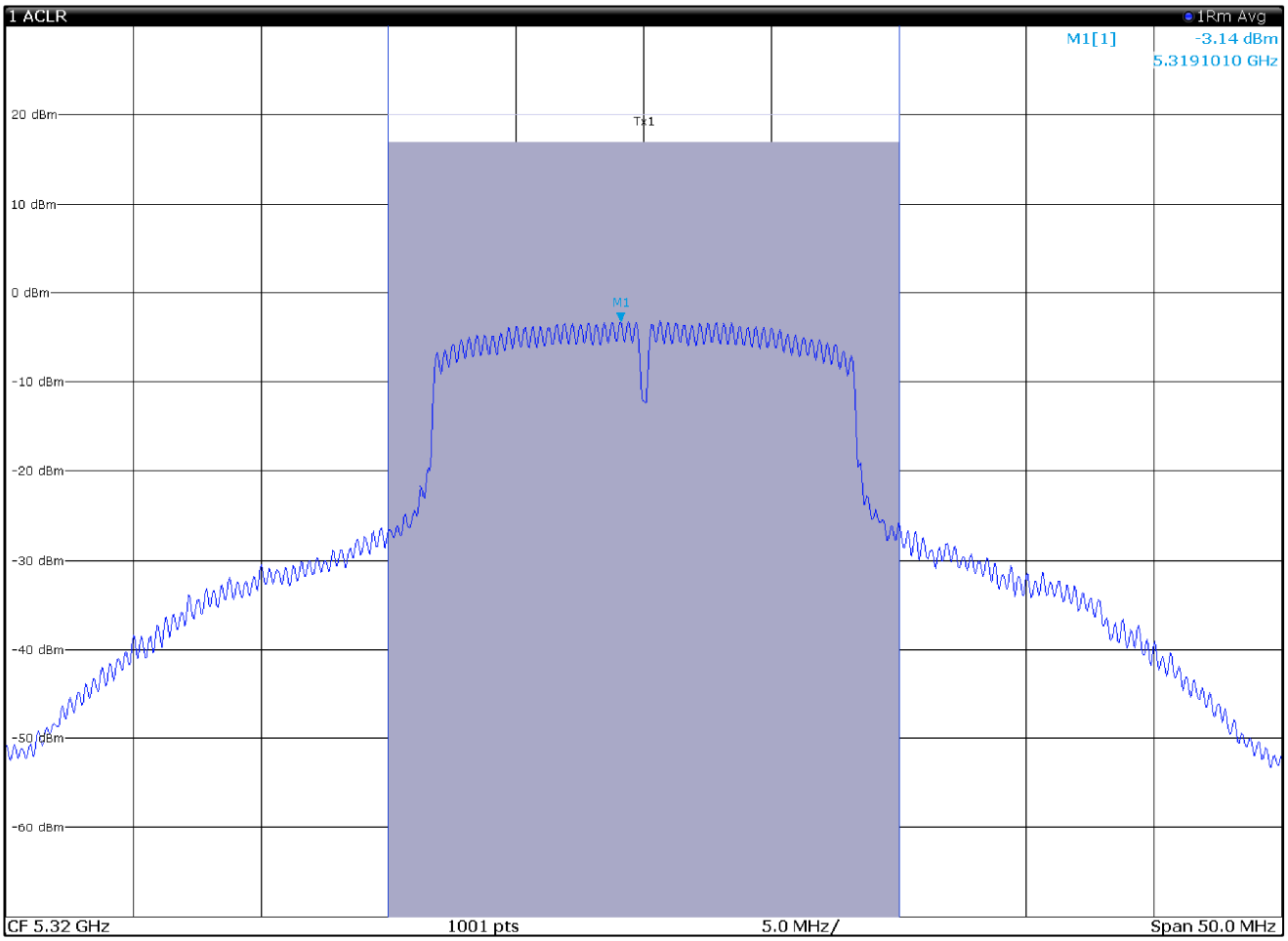
Output power TX 5260 MHz, CH52, 802.11a, 6Mbps, single chain



2 Result Summary — WLAN 802.11a

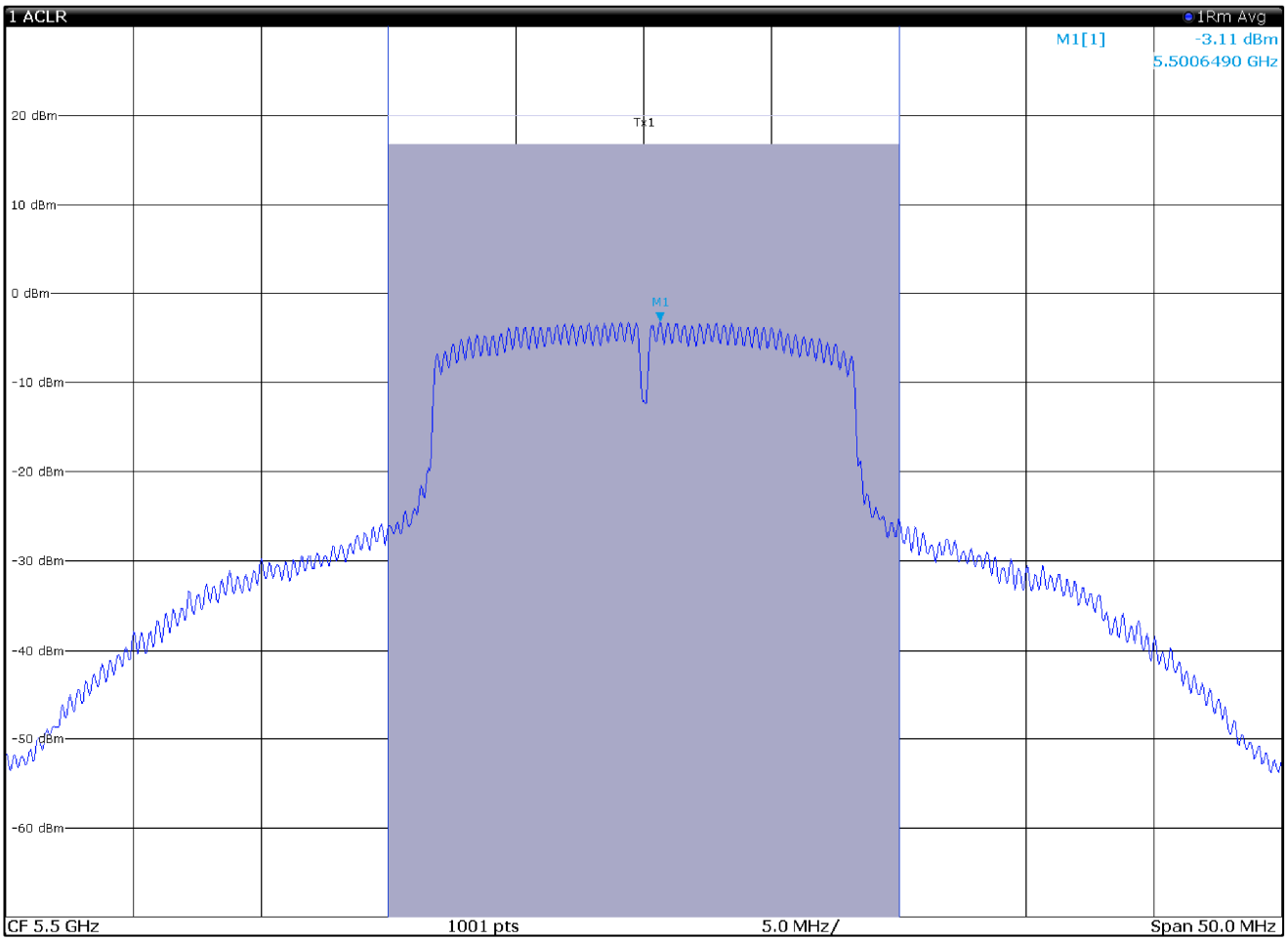
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.86 dBm**
Tx Total			**16.86 dBm**

F*Output power TX 5300 MHz, CH60, 802.11a, 6Mbps, single chain*



2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.81 dBm**
Tx Total			**16.81 dBm**

Output power TX 5320 MHz, CH64, 802.11a, 6Mbps, single chain



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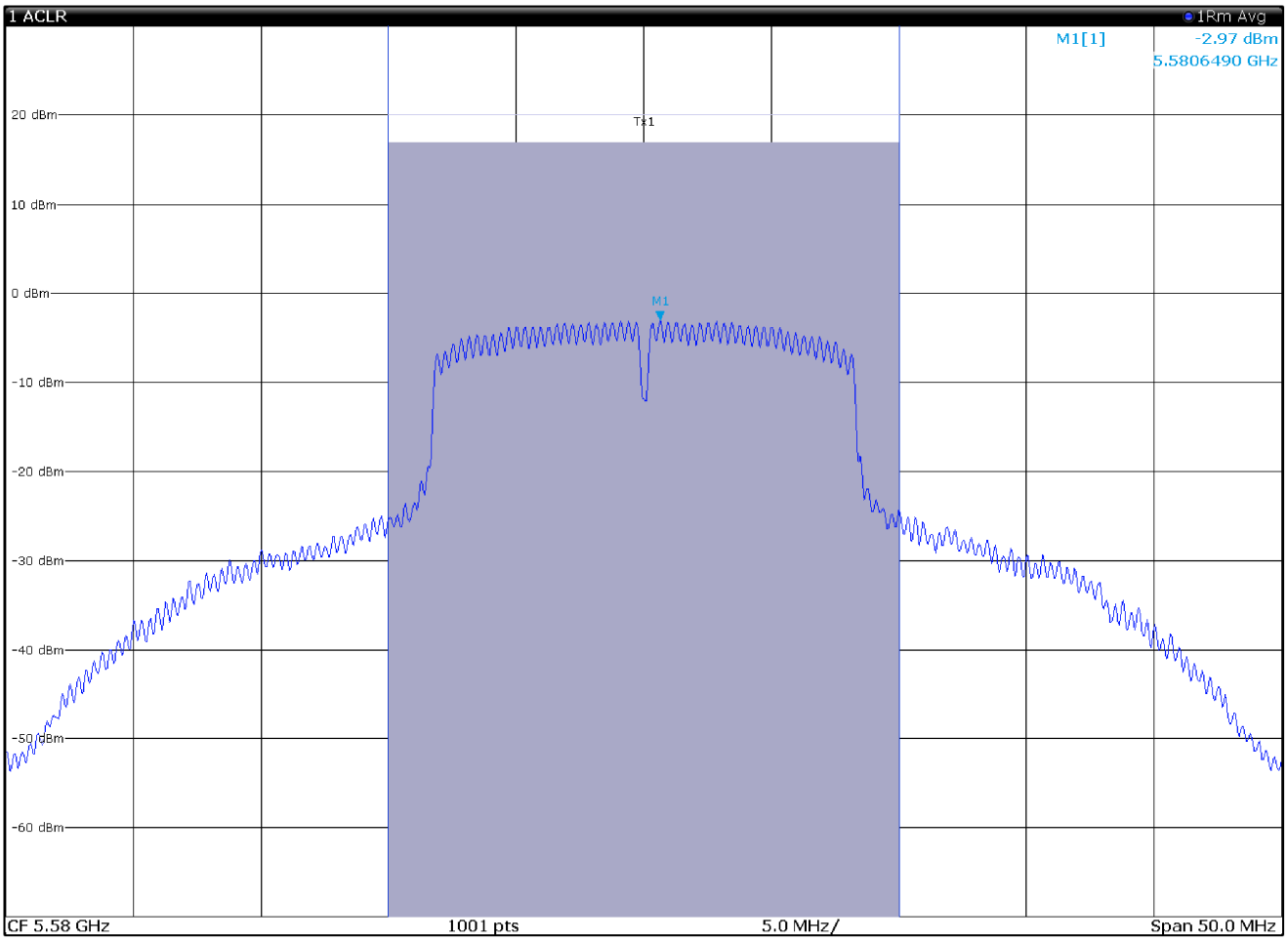
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.79 dBm**
Tx Total			**16.79 dBm**

Output power TX 5500 MHz, CH100, 802.11a, 6Mbps, single chain



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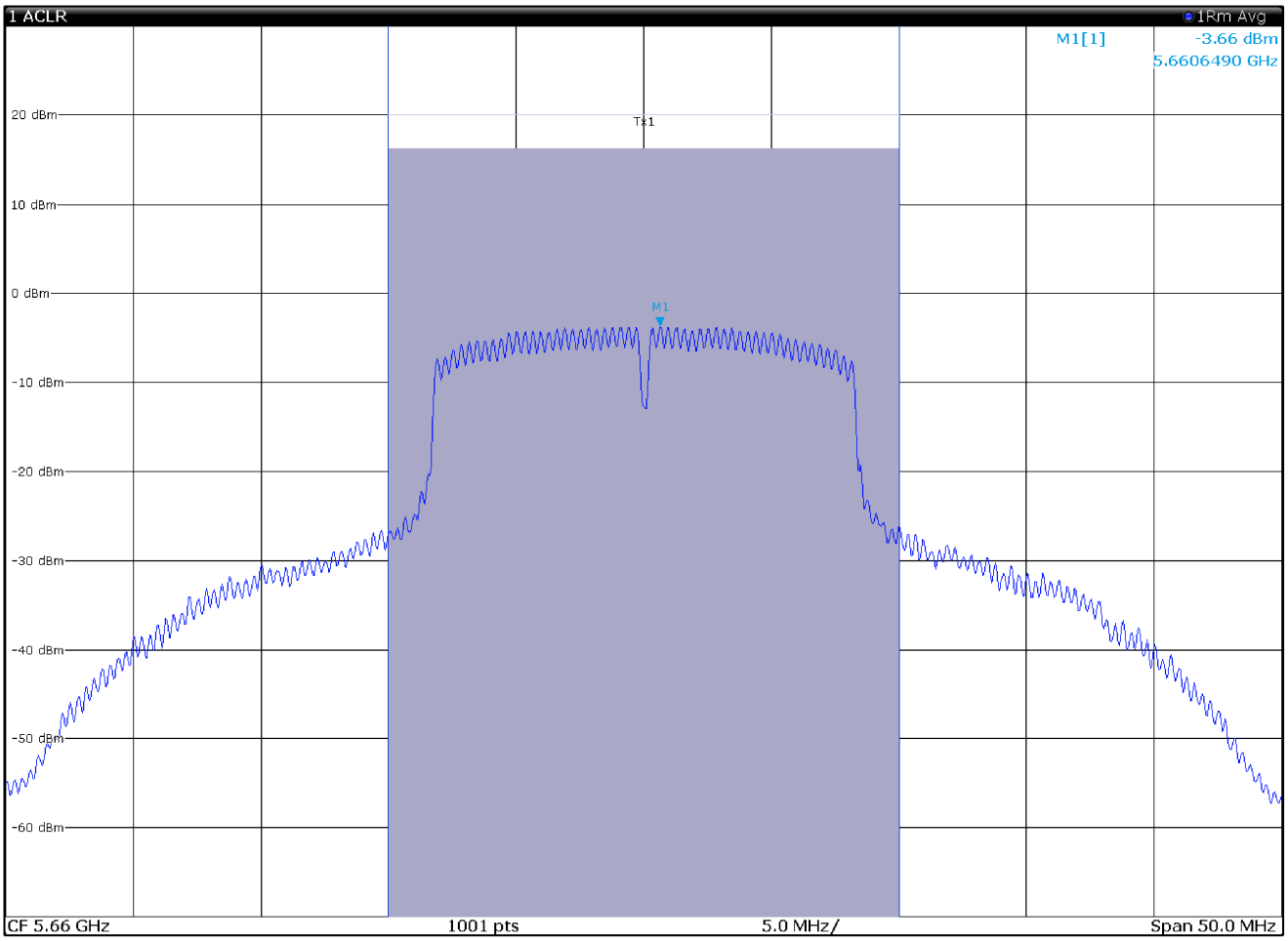
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.90 dBm**
Tx Total			**16.90 dBm**

Output power TX 5580 MHz, CH116, 802.11a, 6Mbps, single chain



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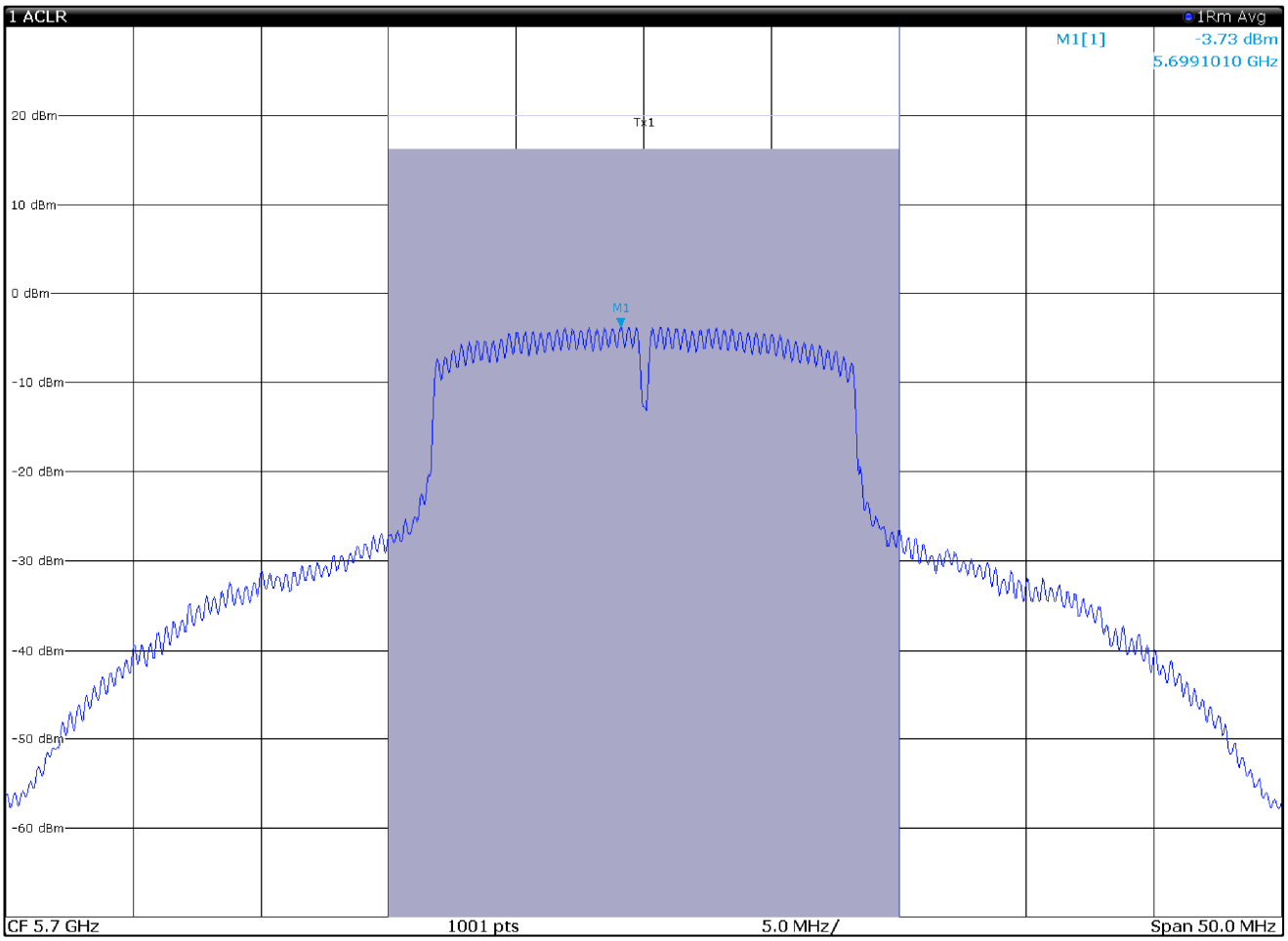
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.22 dBm**
Tx Total			**16.22 dBm**

Output power TX 5660 MHz, CH132, 802.11a, 6Mbps, single chain



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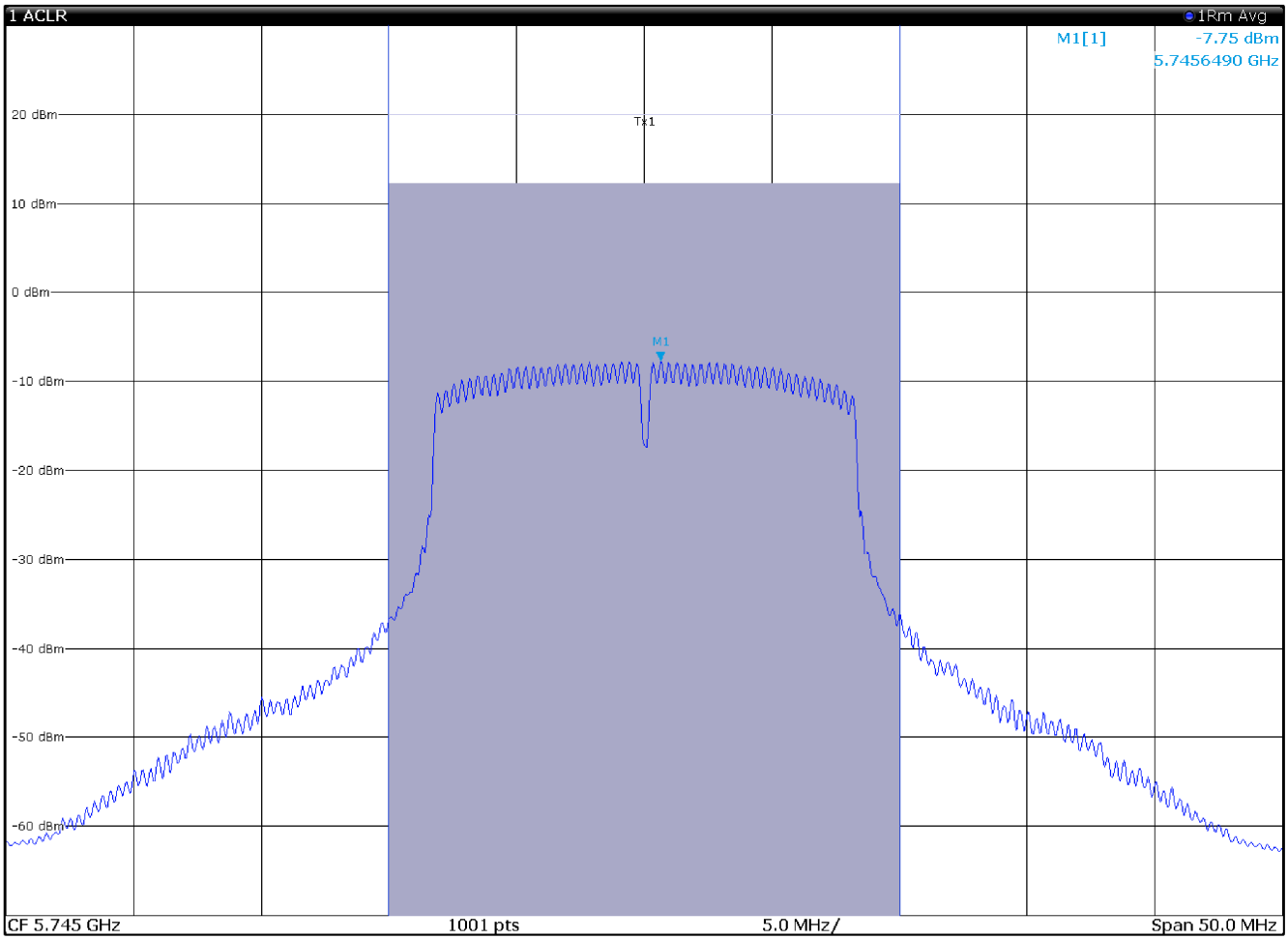
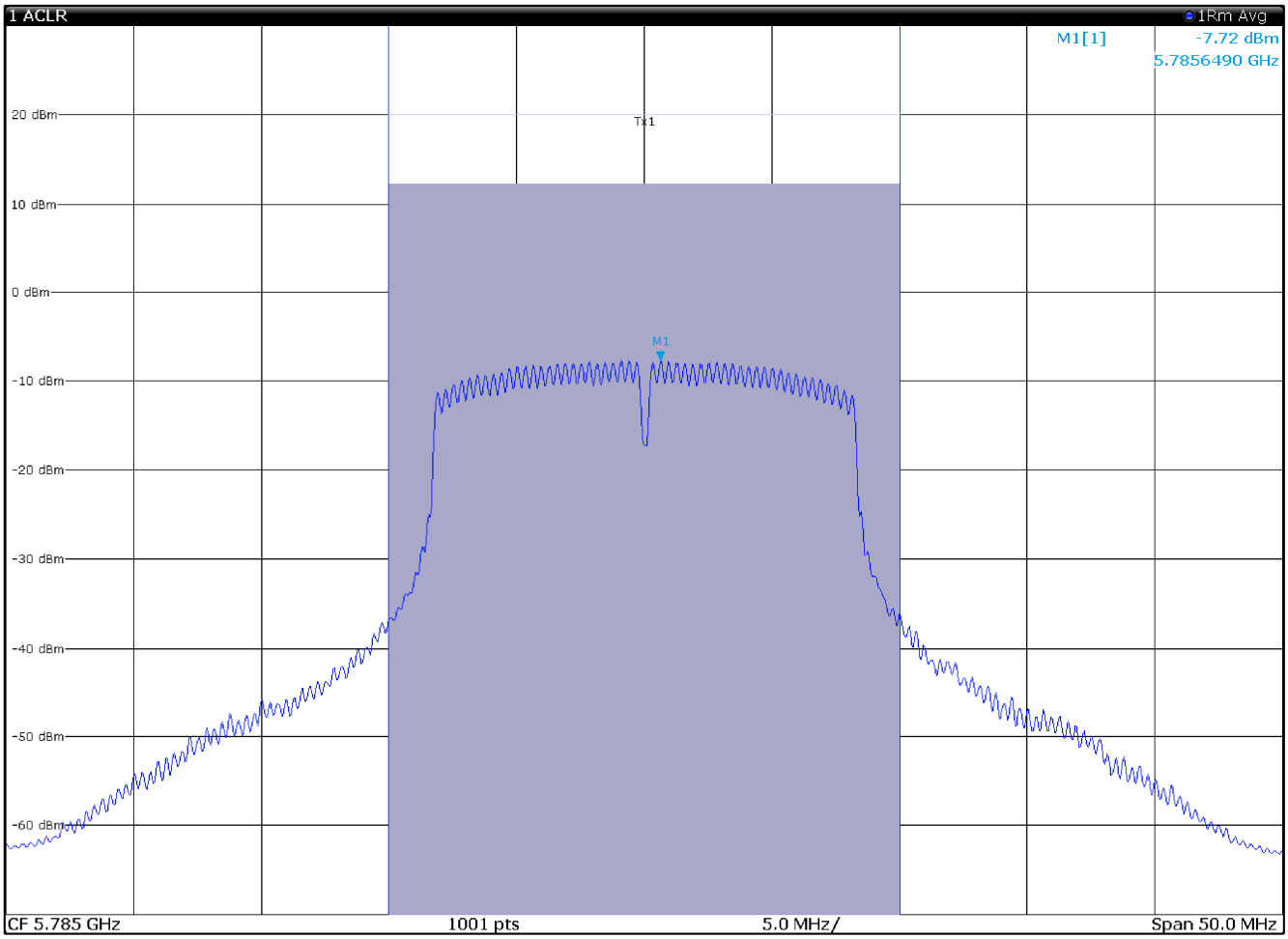
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.15 dBm**
Tx Total			**16.15 dBm**

Output power TX 5700 MHz, CH140, 802.11a, 6Mbps, single chain



2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**12.20 dBm**
Tx Total			**12.20 dBm**

Output power TX 5745 MHz, CH149, 802.11a, 6Mbps, for 1 TX



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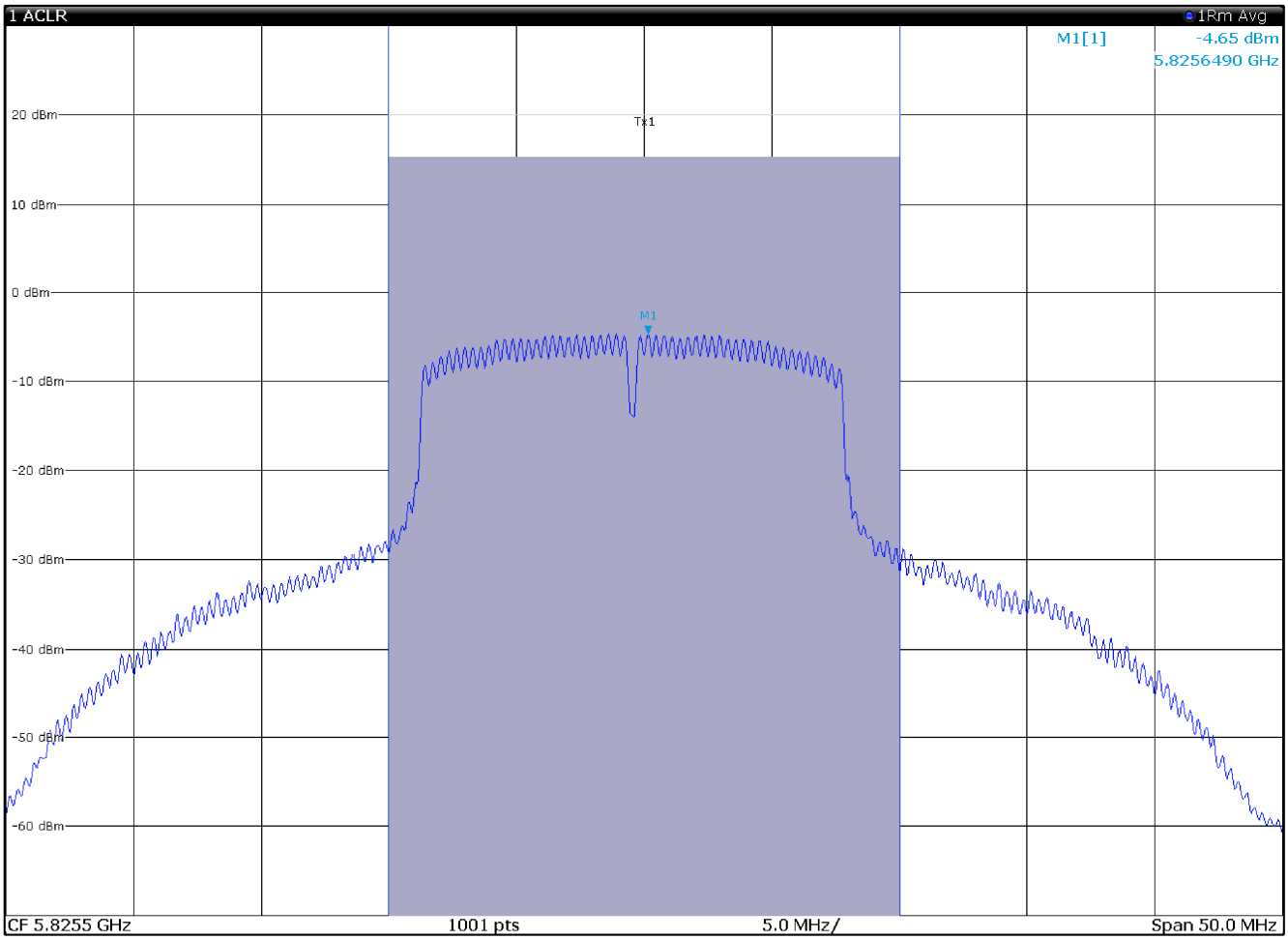
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**12.19 dBm**
Tx Total			**12.19 dBm**

Output power TX 5785 MHz, CH157, 802.11a, 6Mbps, for 1 TX



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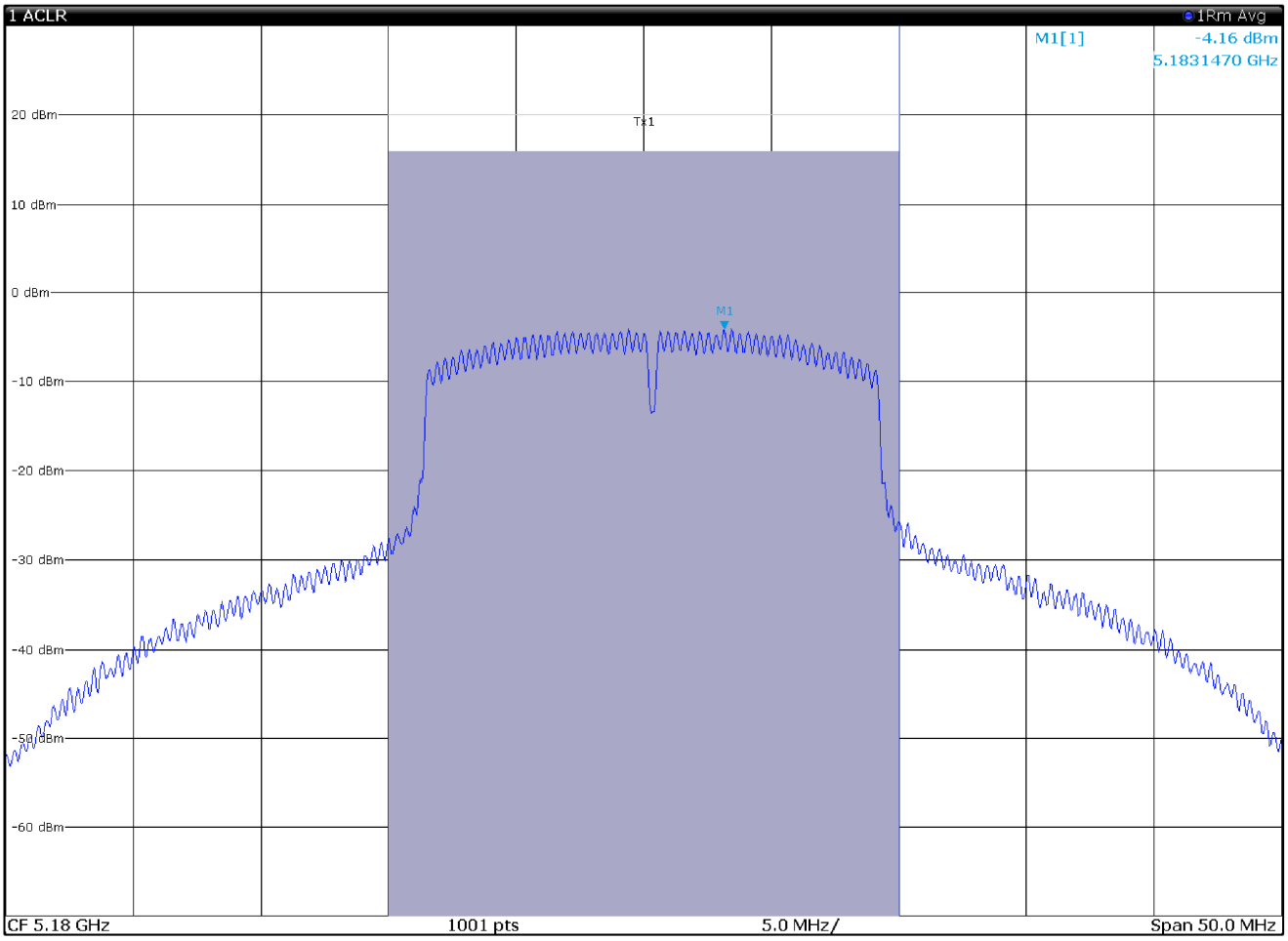
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.26 dBm**
Tx Total			**15.26 dBm**

Output power *TX 5825 MHz, CH165, 802.11a, 6Mbps, for 1 TX*



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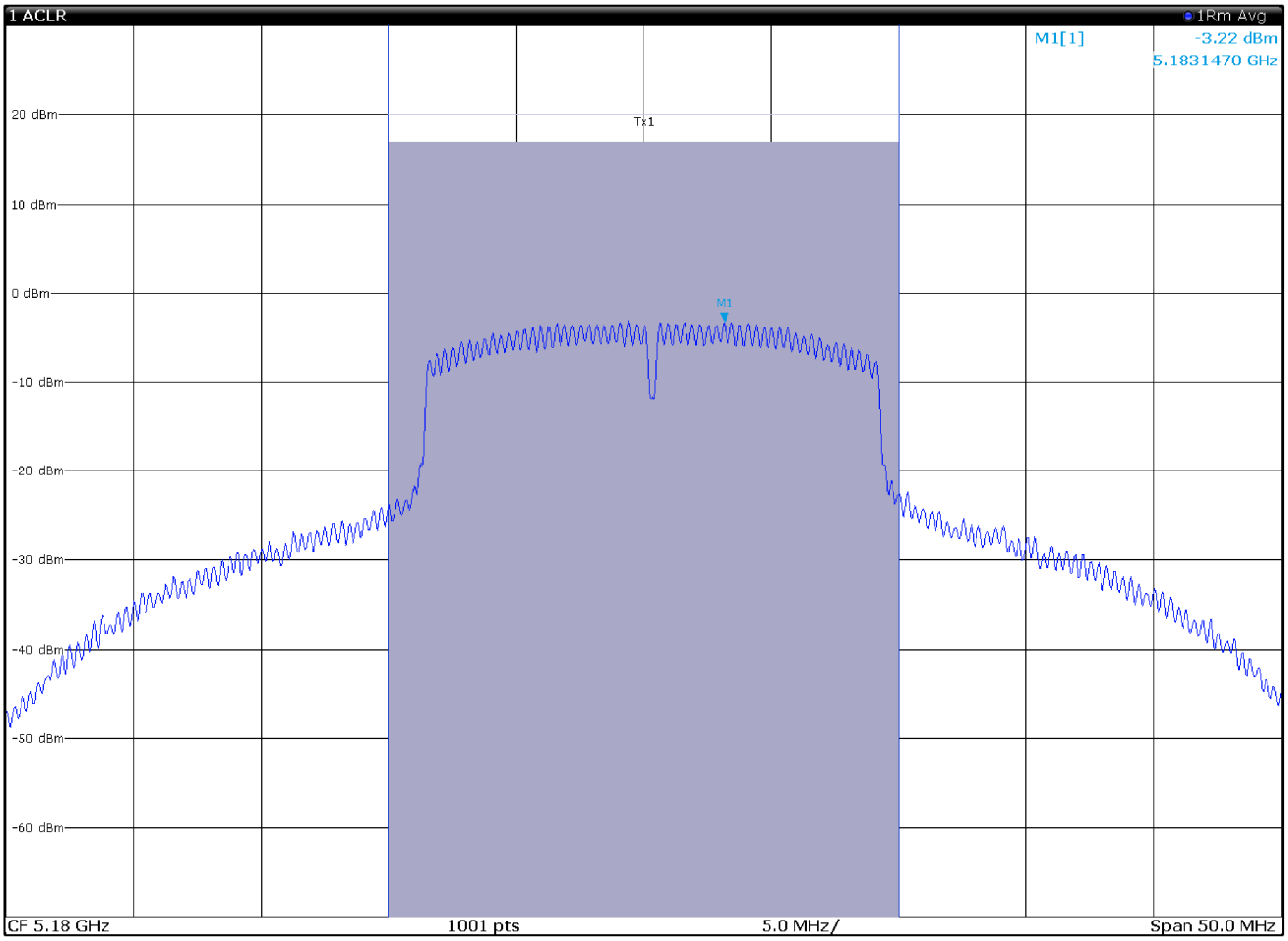
2 Result Summary — WLAN 802.11a

Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.90 dBm**
Tx Total			**15.90 dBm**

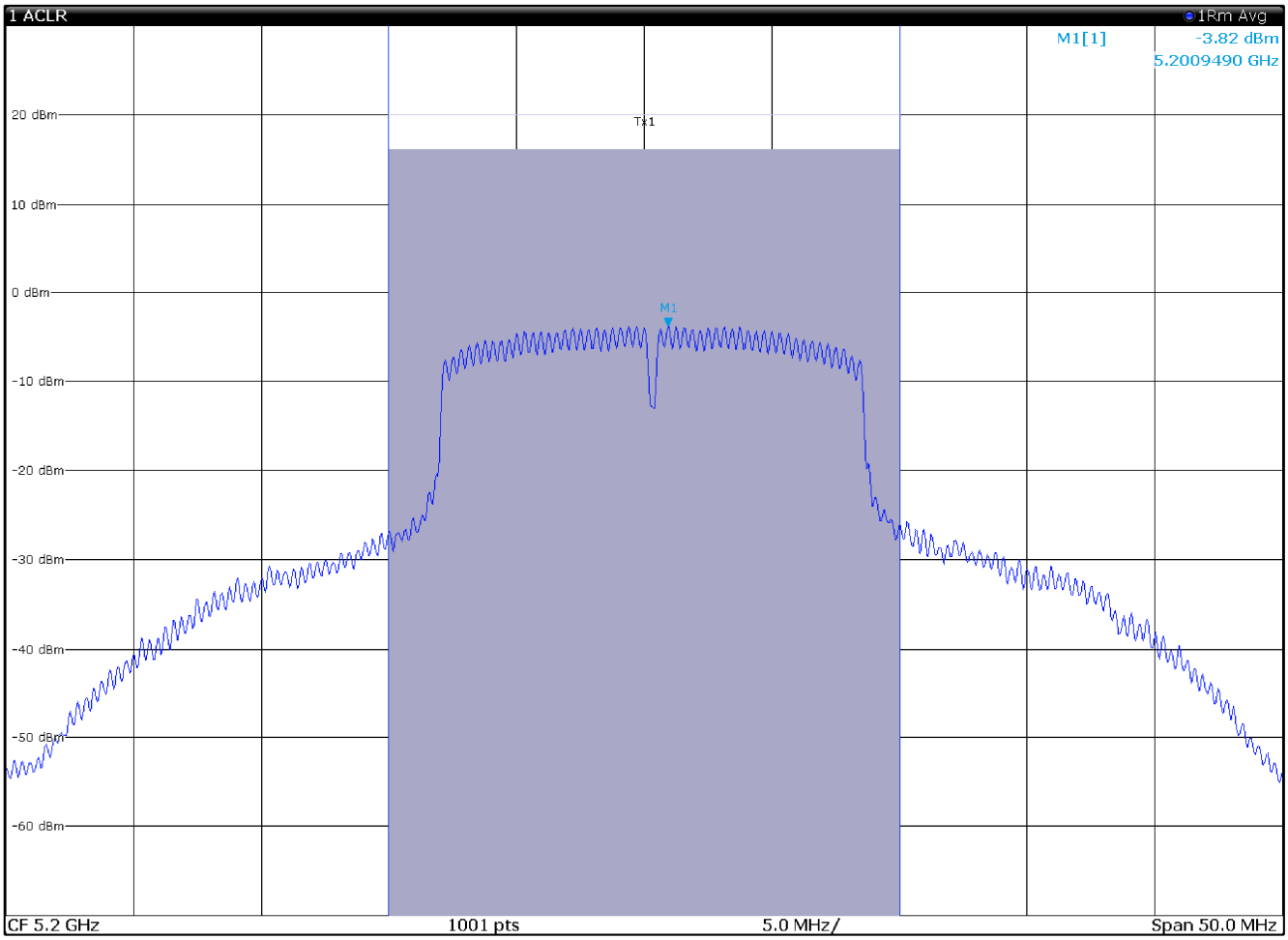
Output power *TX 5180 MHz, CH36, 802.11a, 6Mbps, multi chain:chain 0*



18:03:02 06.07.2020 **Page 1/2**

2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.95 dBm**
Tx Total			**16.95 dBm**

Output power *TX 5180 MHz, CH36, 802.11a, 6Mbps, multi chain:chain 1*



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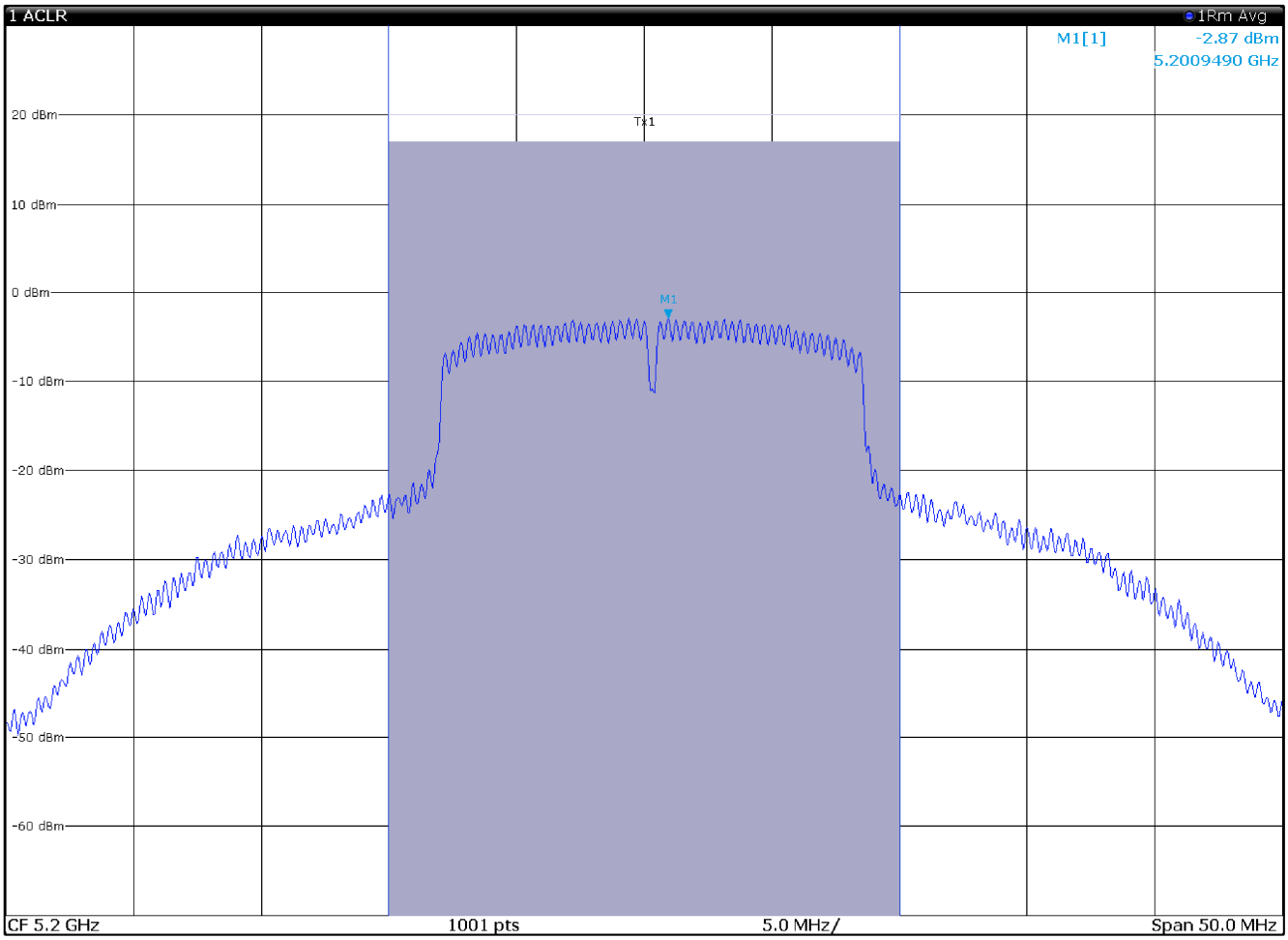
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.87 dBm**
Tx Total			**15.87 dBm**

Output power TX 5200 MHz, CH40, 802.11a, 6Mbps, multi chain:**chain 0**



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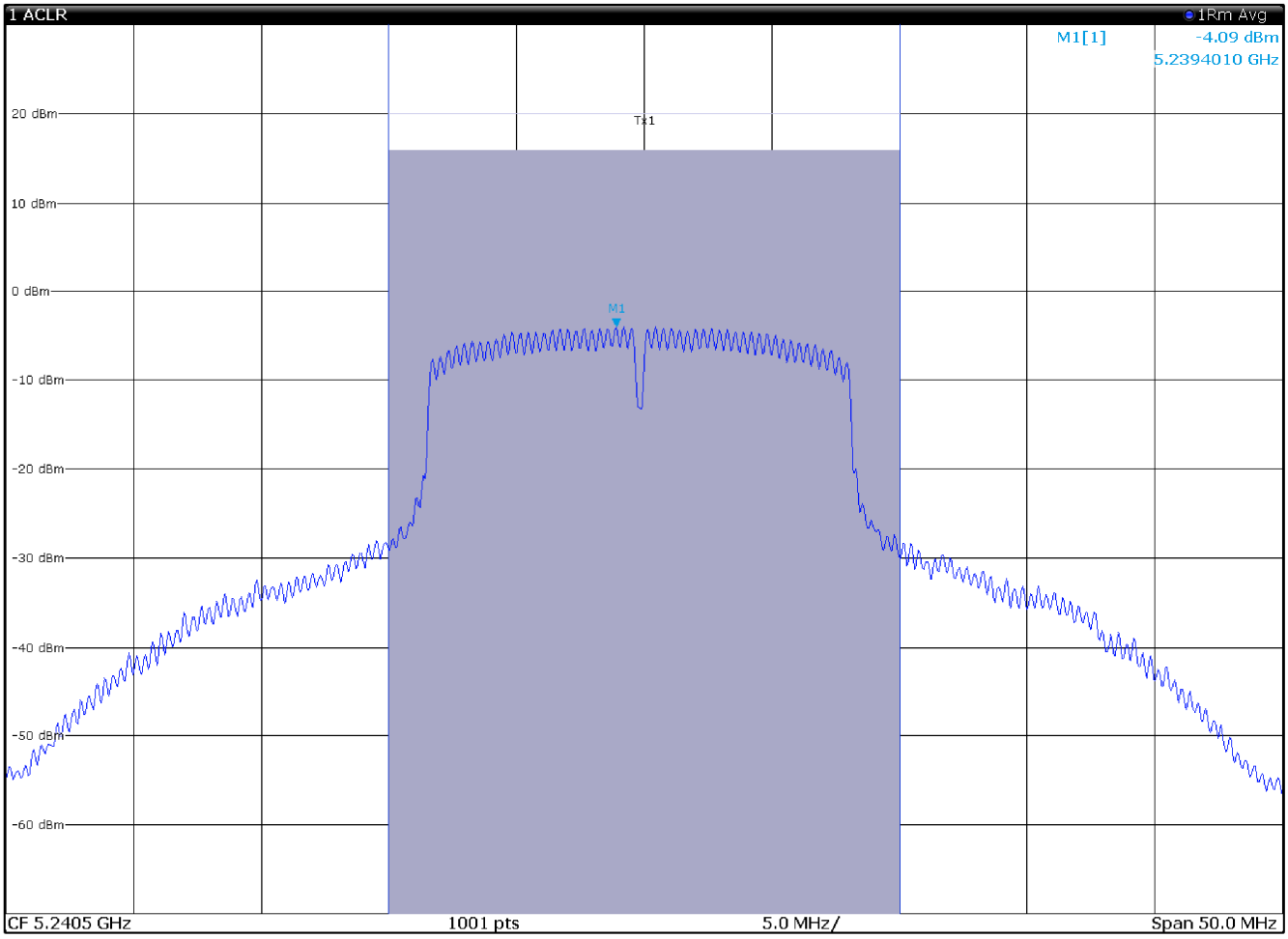
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**17.01 dBm**
Tx Total			**17.01 dBm**

Output power TX 5200 MHz, CH40, 802.11a, 6Mbps, multi chain**: chain 1**



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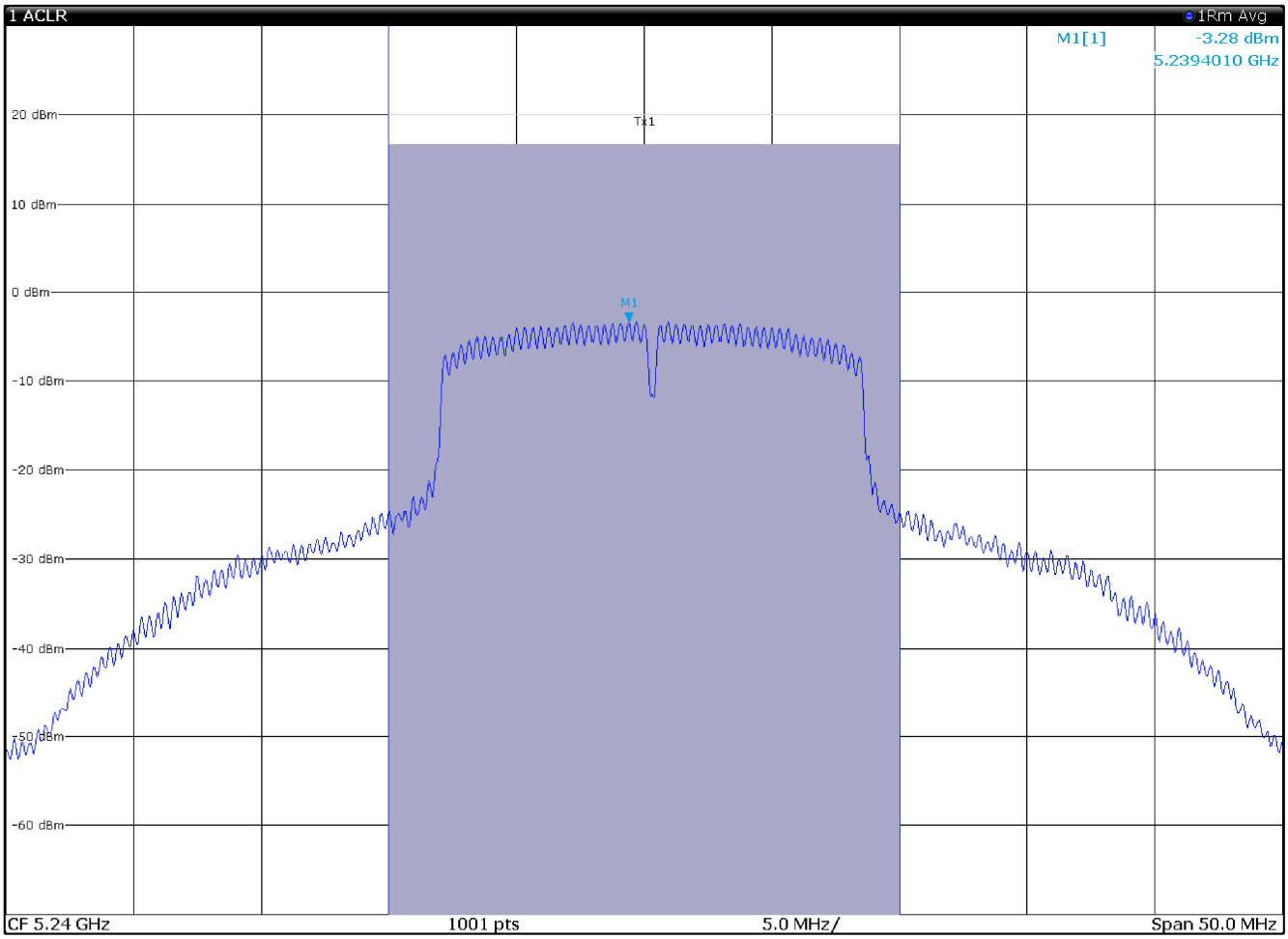
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.87 dBm**
Tx Total			**15.87 dBm**

Output power TX 5240 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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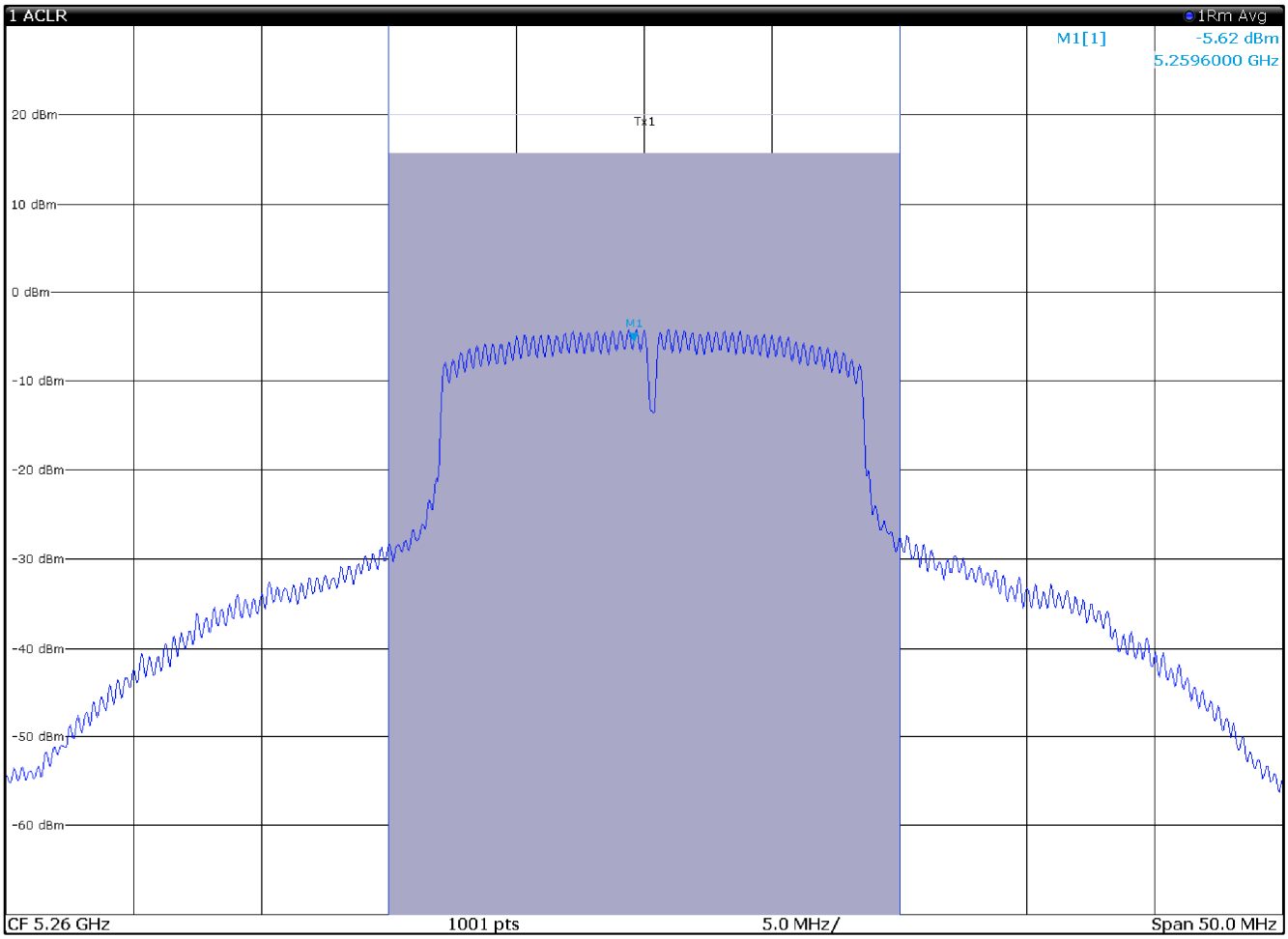
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.60 dBm**
Tx Total			**16.60 dBm**

Output power TX 5240 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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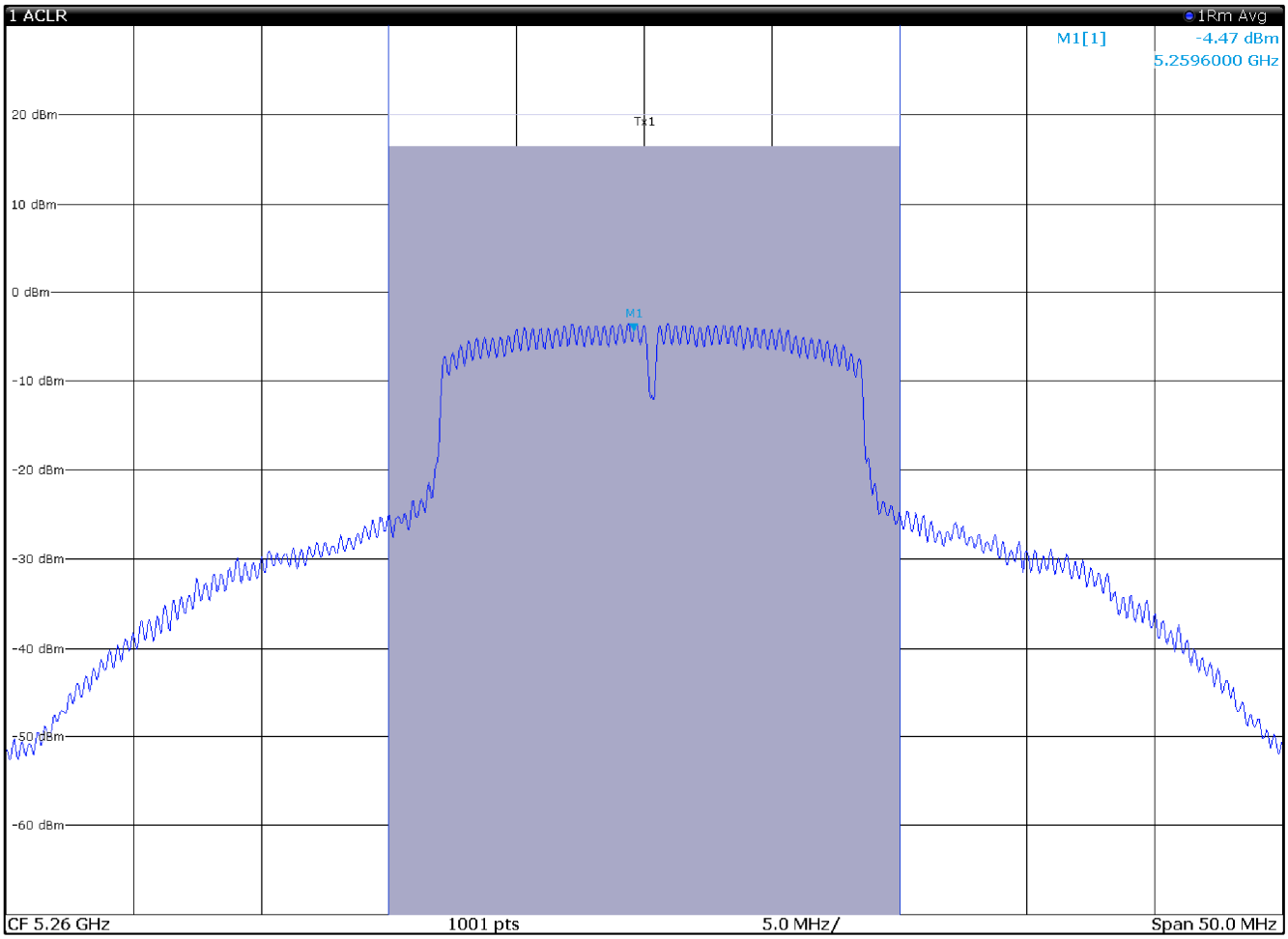
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.67 dBm**
Tx Total			**15.67 dBm**

Output power TX 5260 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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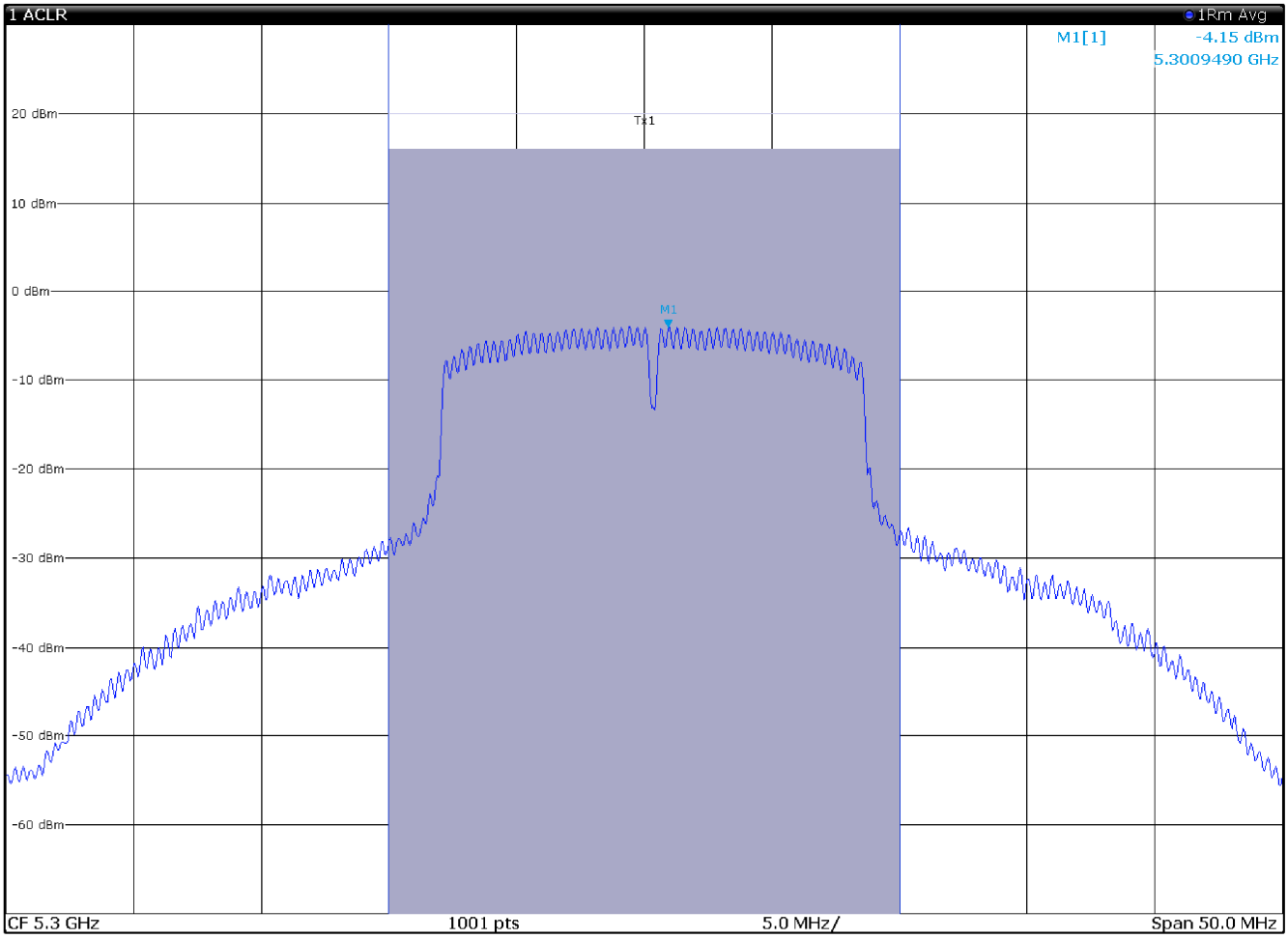
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.47 dBm**
Tx Total			**16.47 dBm**

Output power TX 5260 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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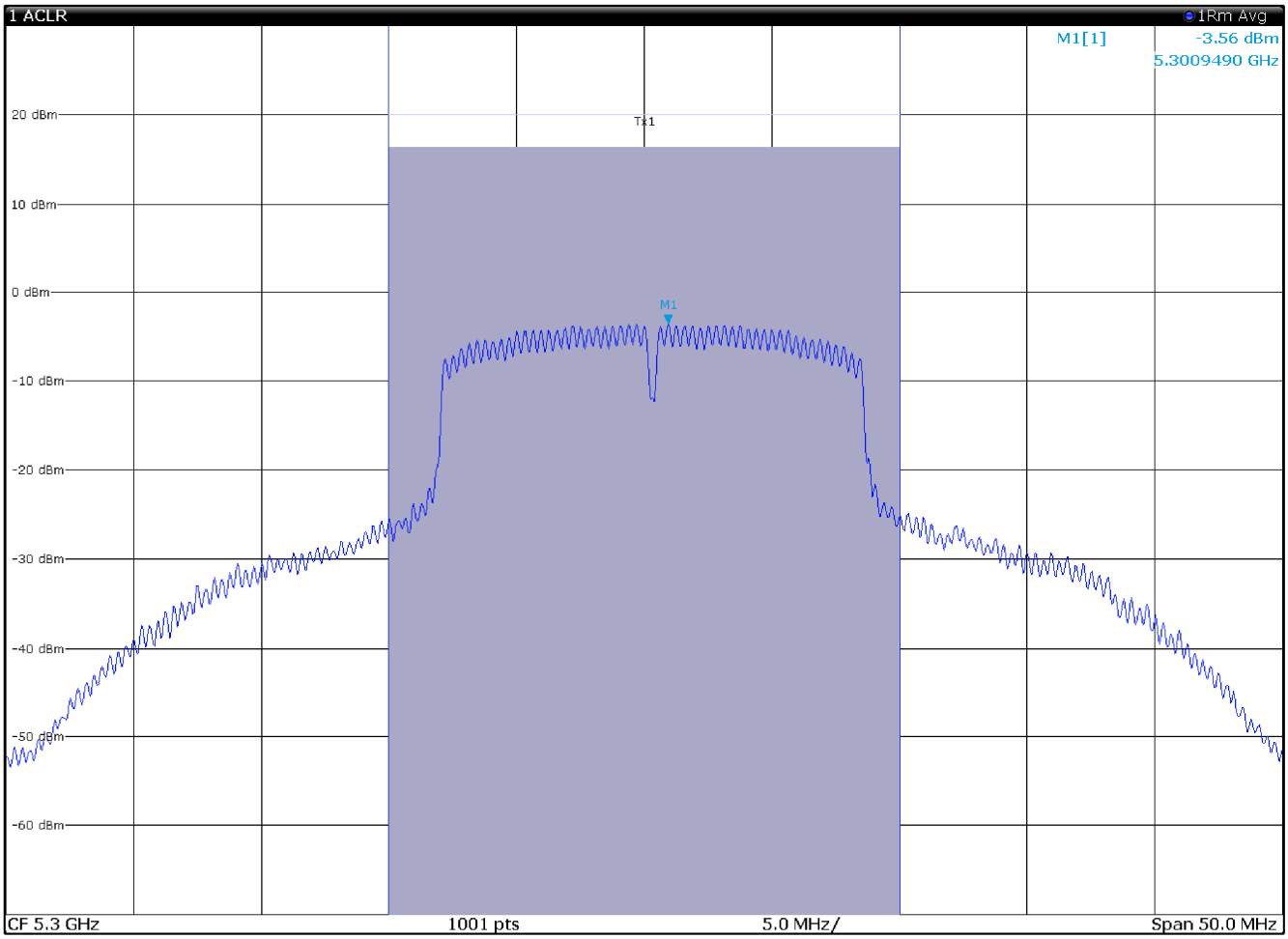
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.94 dBm**
Tx Total			**15.94 dBm**

Output power TX 5300 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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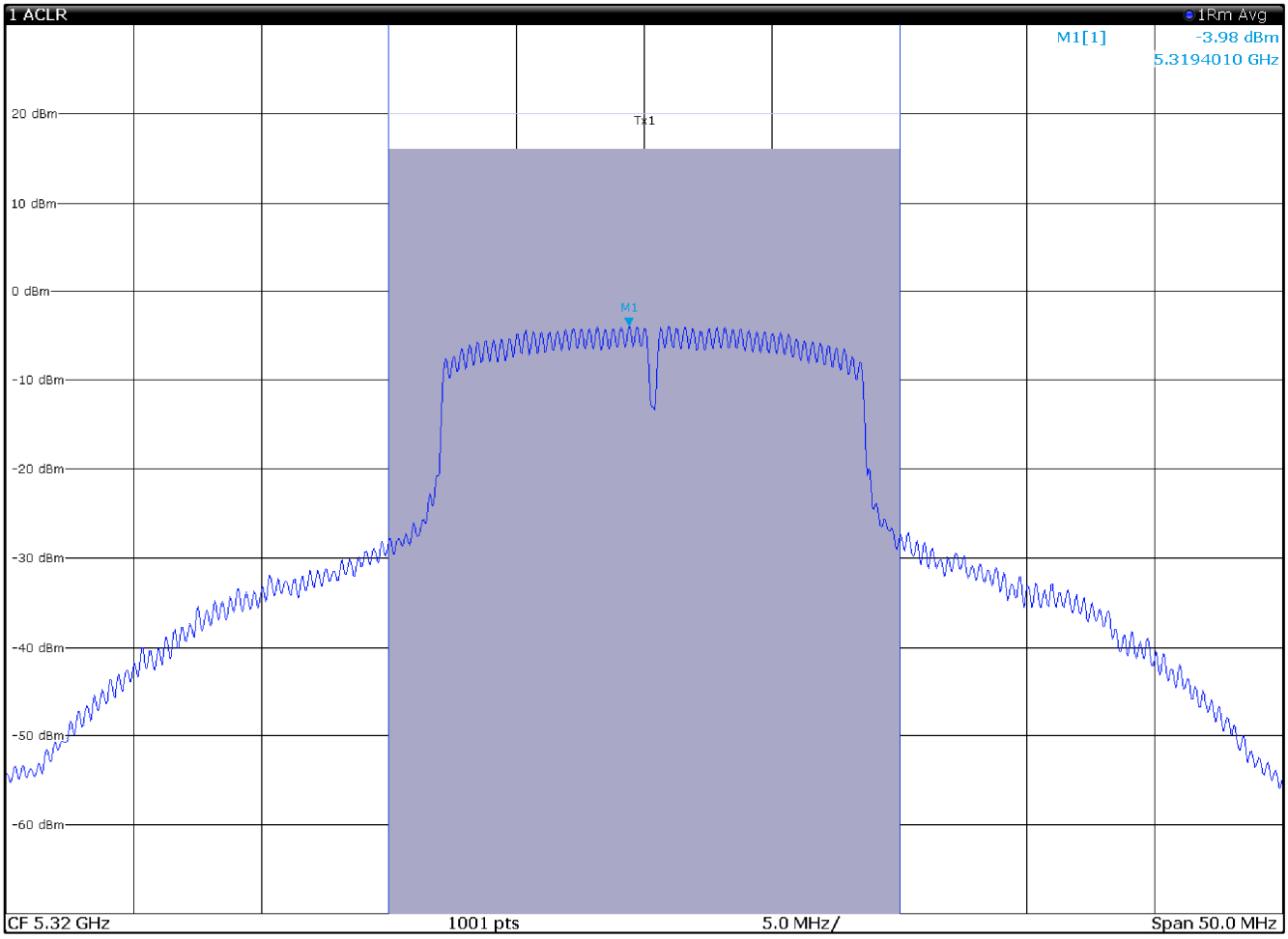
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.33 dBm**
Tx Total			**16.33 dBm**

Output power TX 5300 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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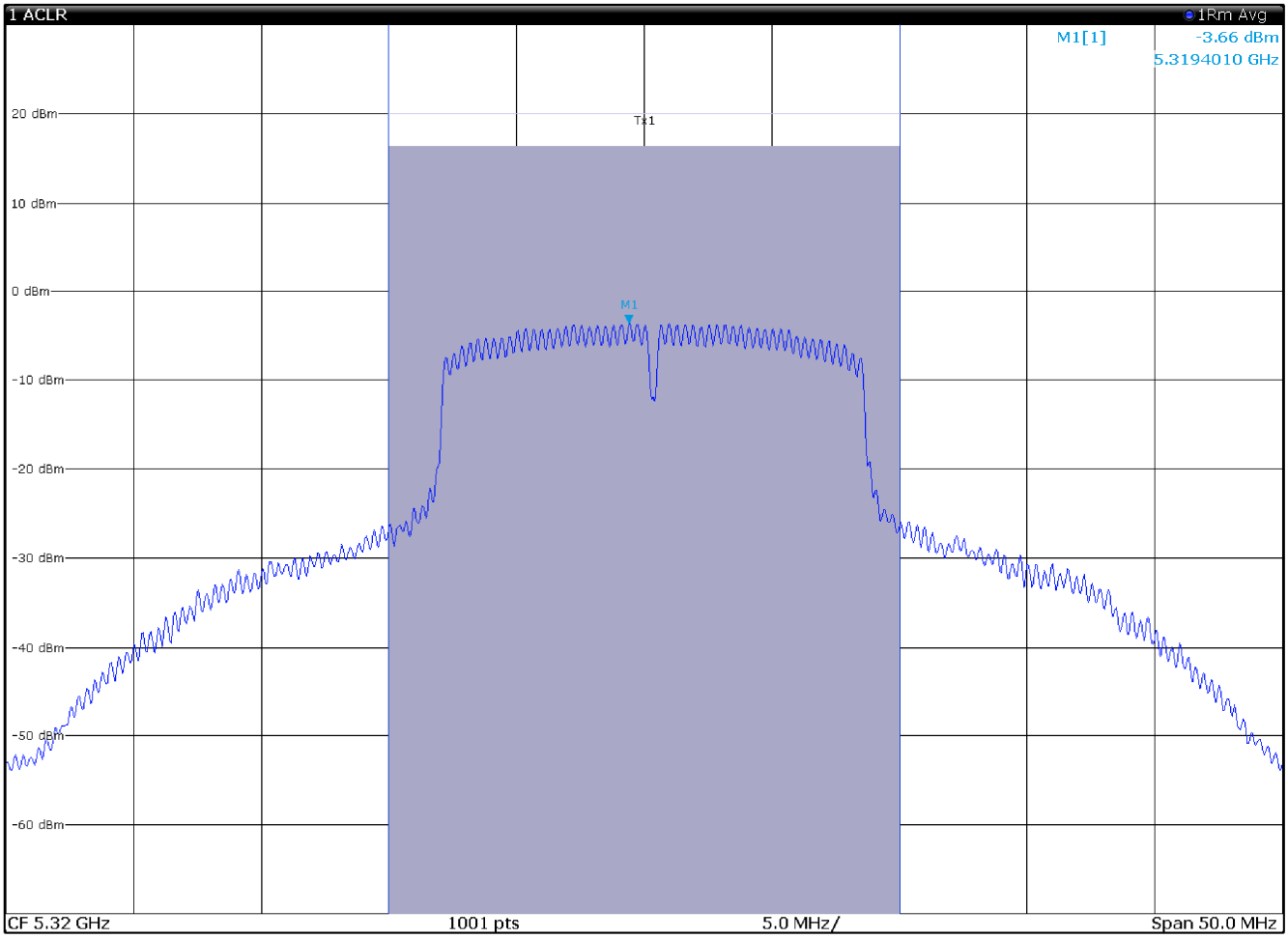
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.96 dBm**
Tx Total			**15.96 dBm**

Output power TX 5320 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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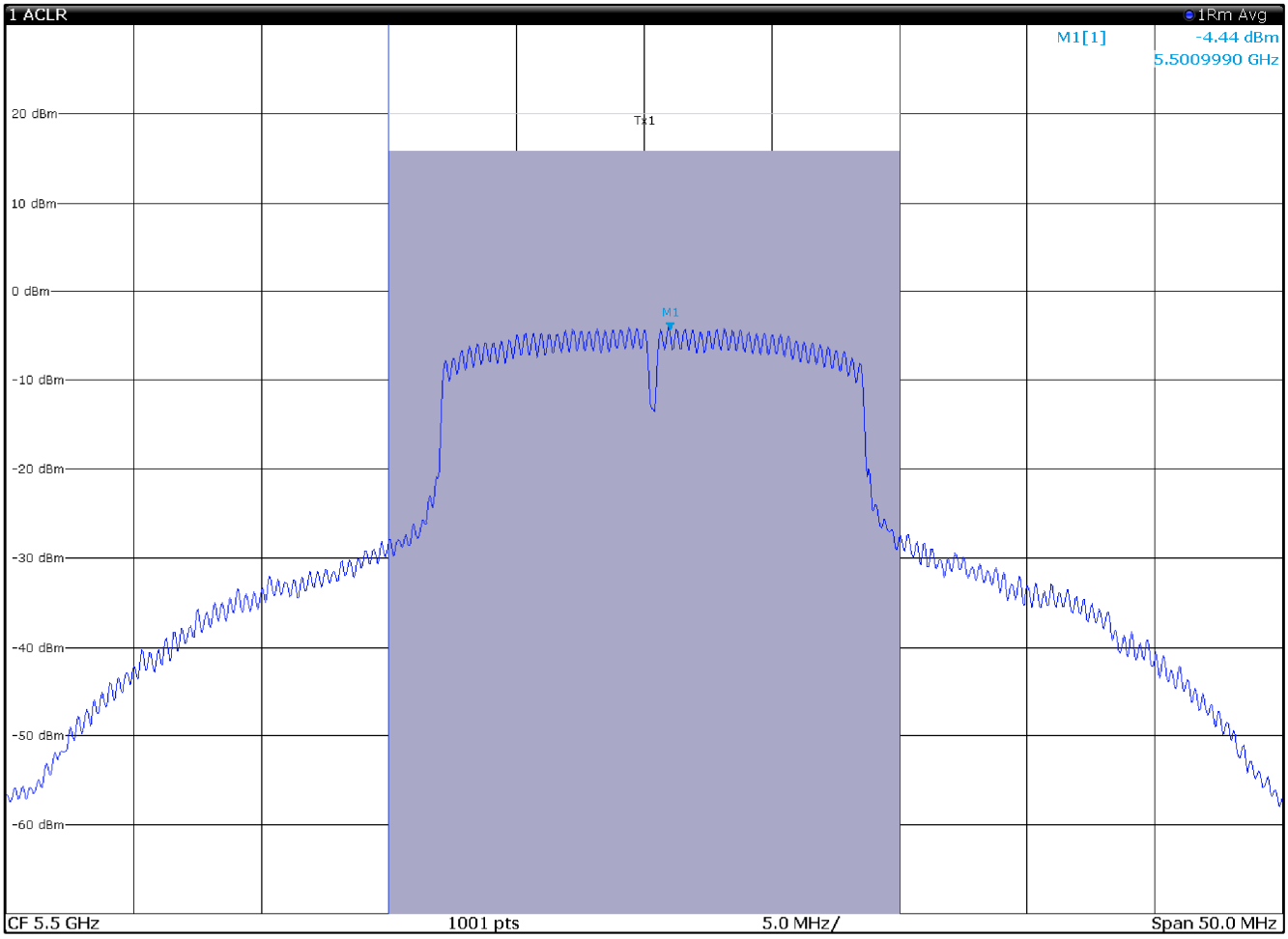
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.33 dBm**
Tx Total			**16.33 dBm**

Output power TX 5320 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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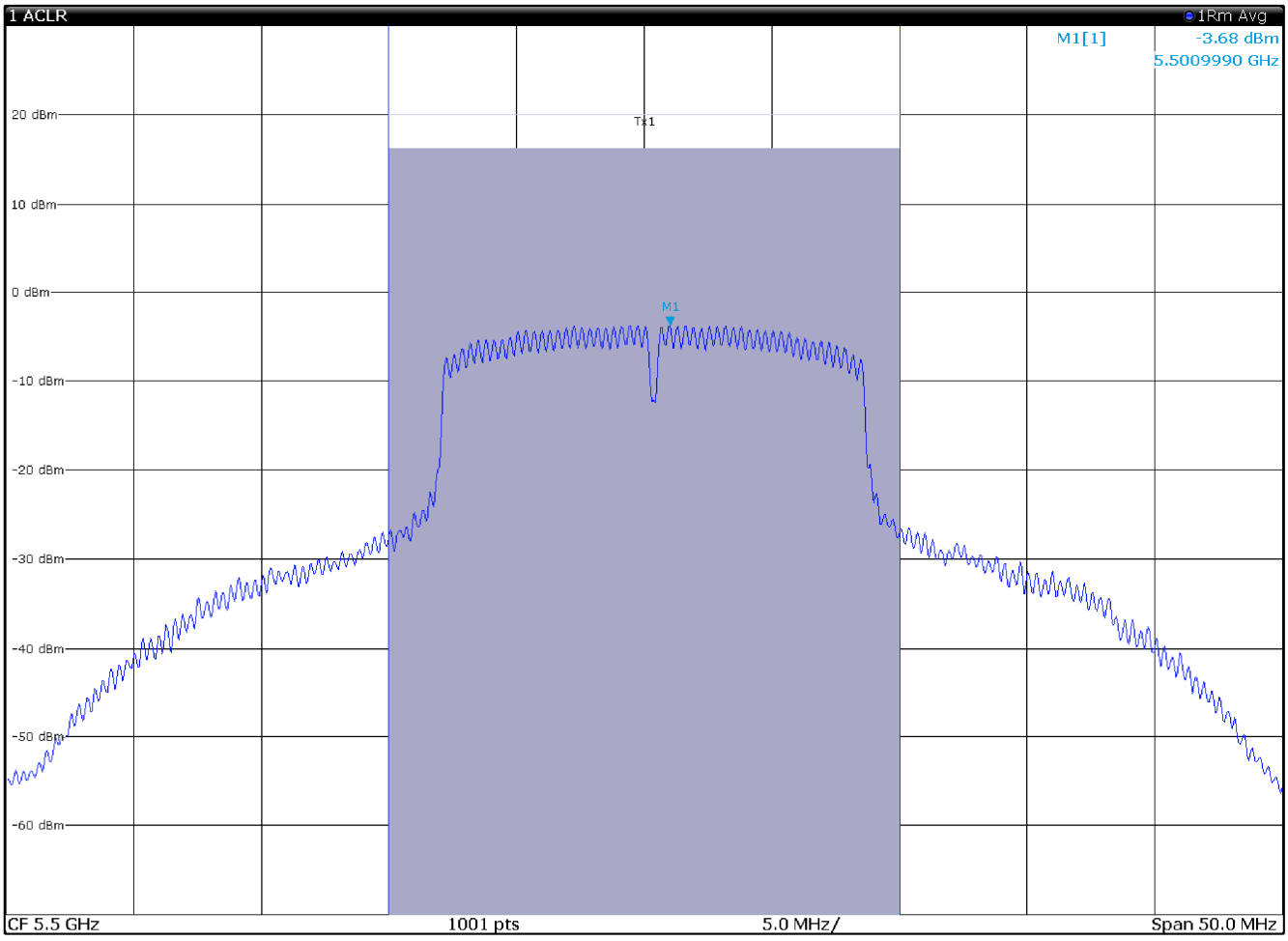
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.76 dBm**
Tx Total			**15.76 dBm**

Output power TX 5500 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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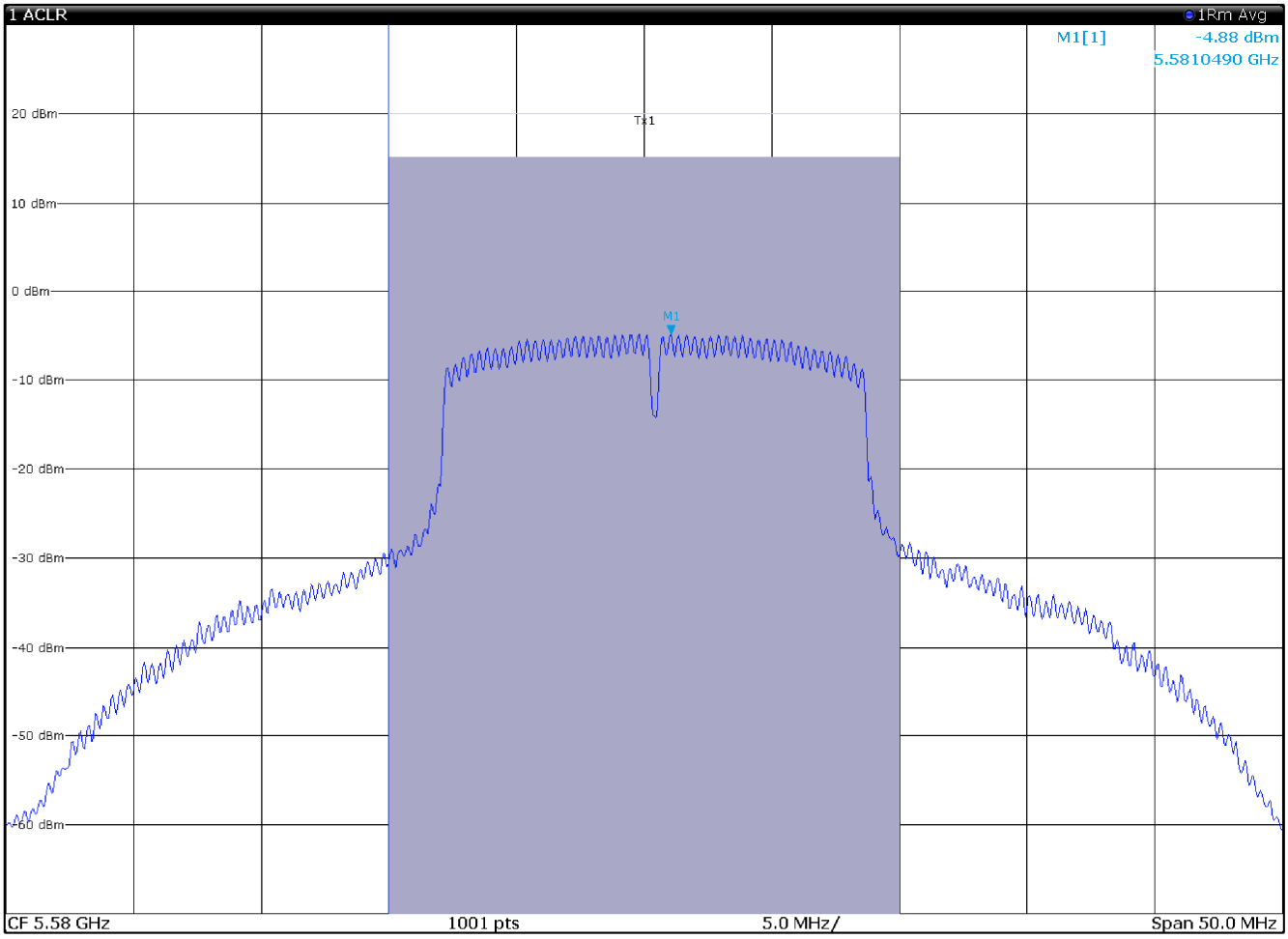
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.22 dBm**
Tx Total			**16.22 dBm**

Output power TX 5500 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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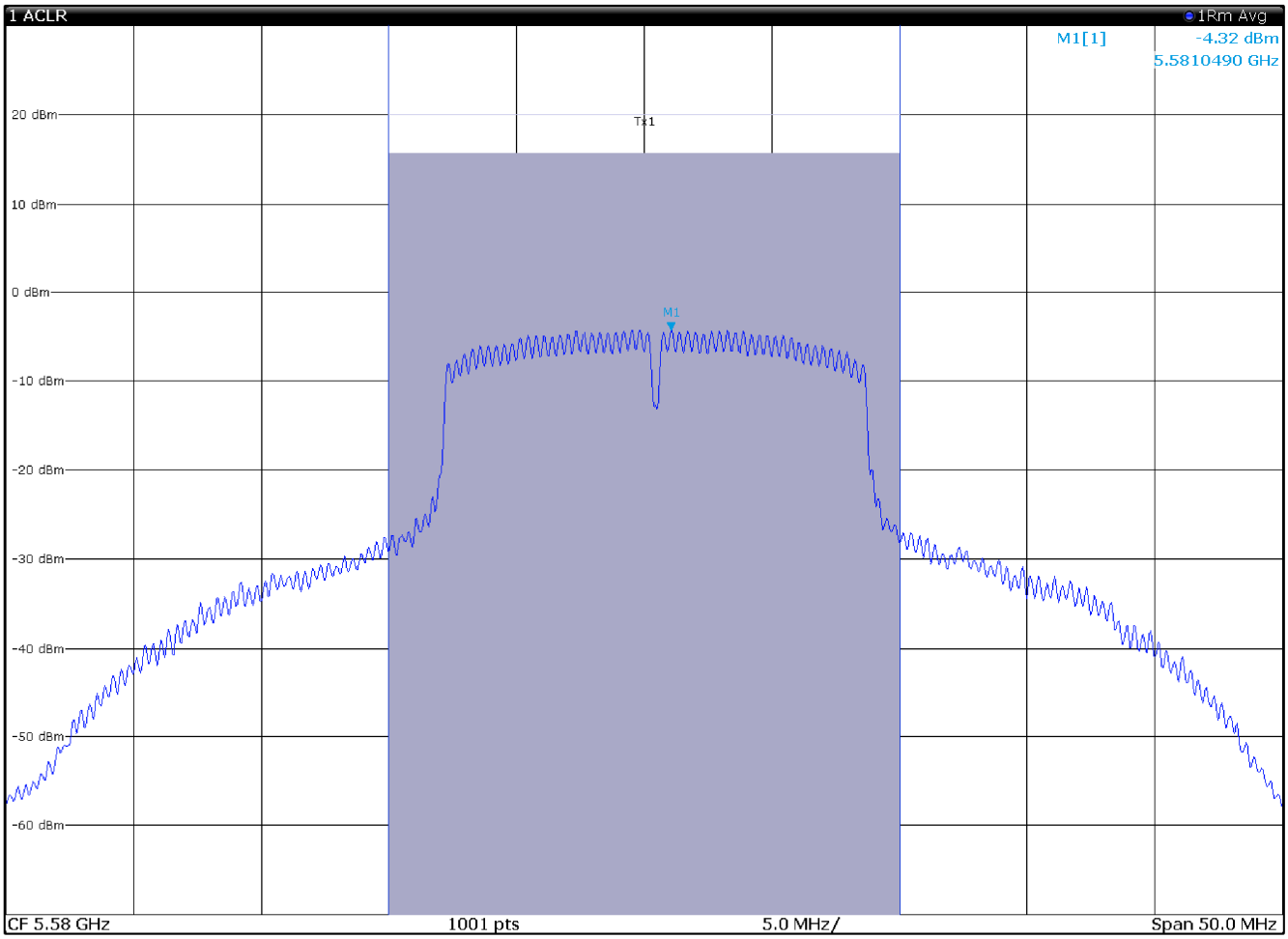
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.09 dBm**
Tx Total			**15.09 dBm**

Output power TX 5580 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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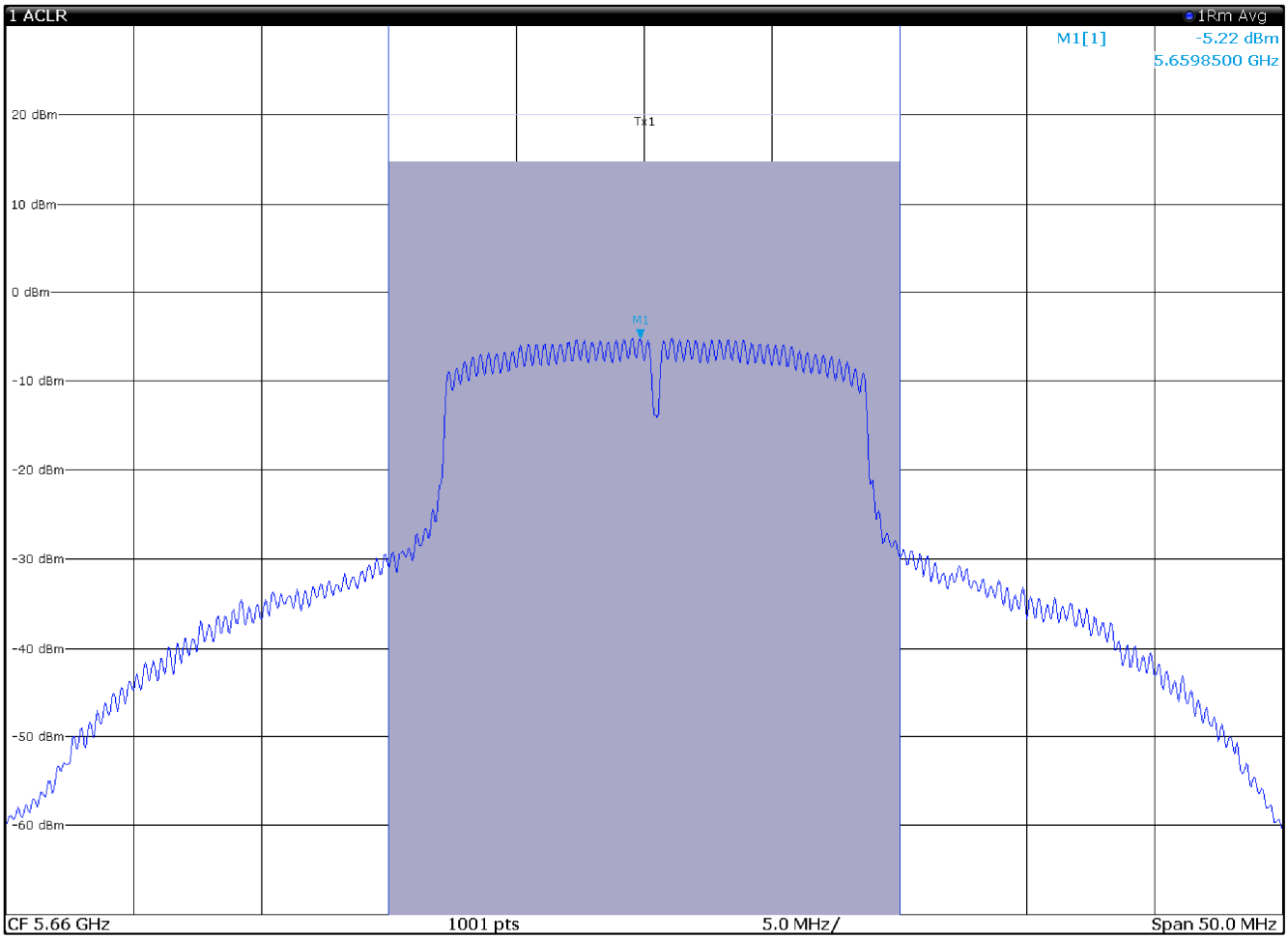
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.65 dBm**
Tx Total			**15.65 dBm**

Output power TX 5580 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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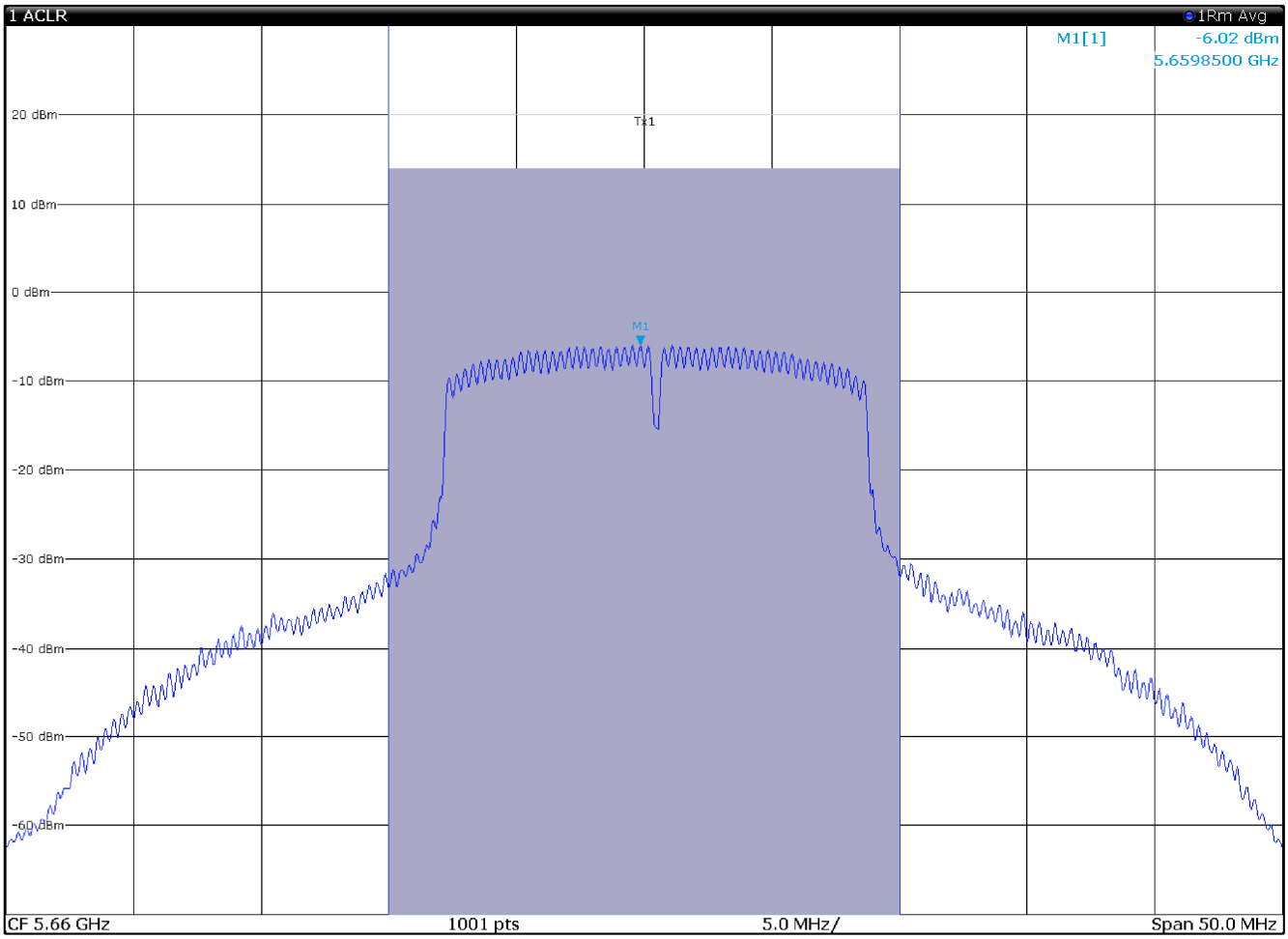
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**14.72 dBm**
Tx Total			**14.72 dBm**

Output power TX 5660MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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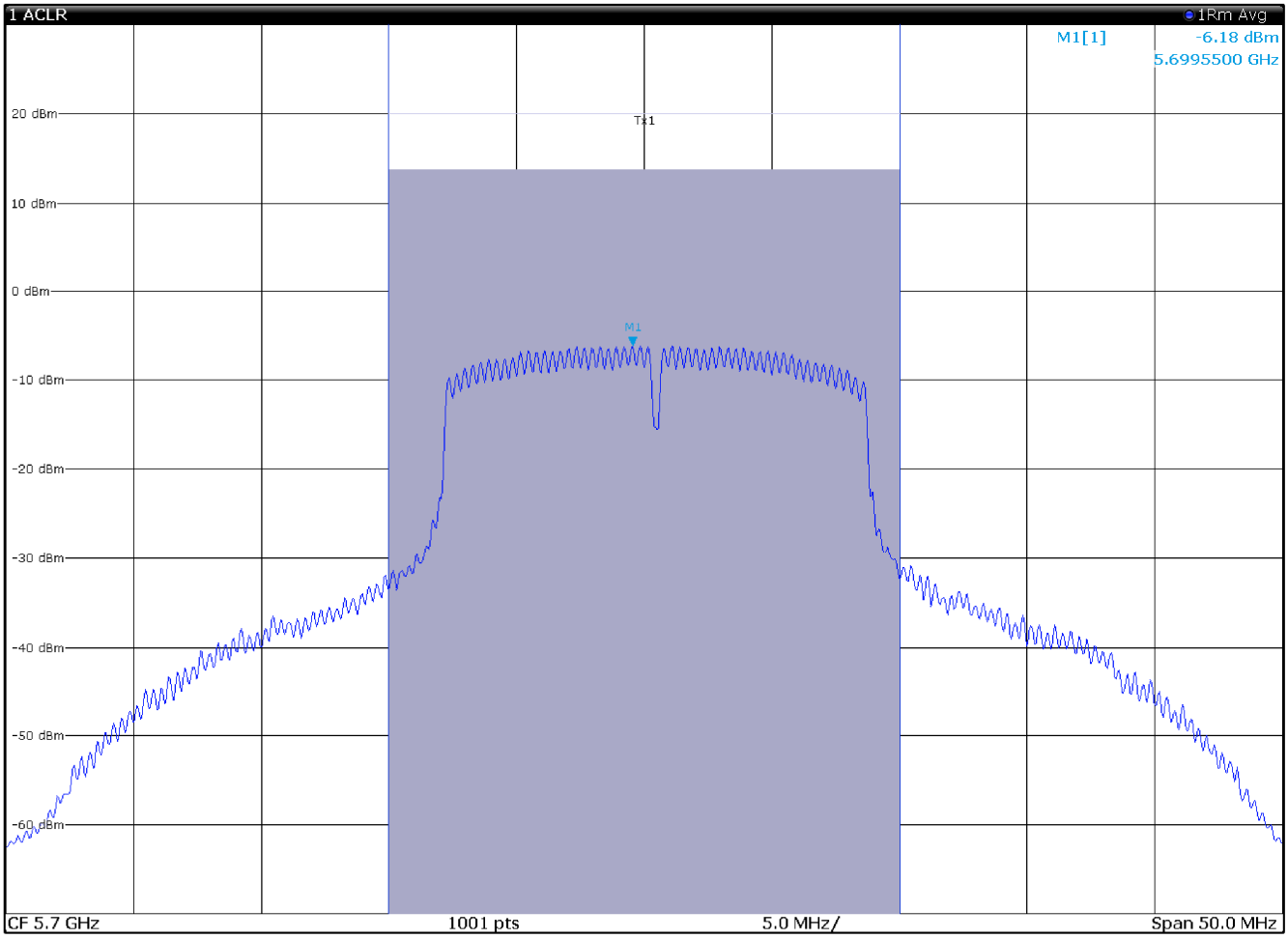
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**13.93 dBm**
Tx Total			**13.93 dBm**

Output power TX 5660MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



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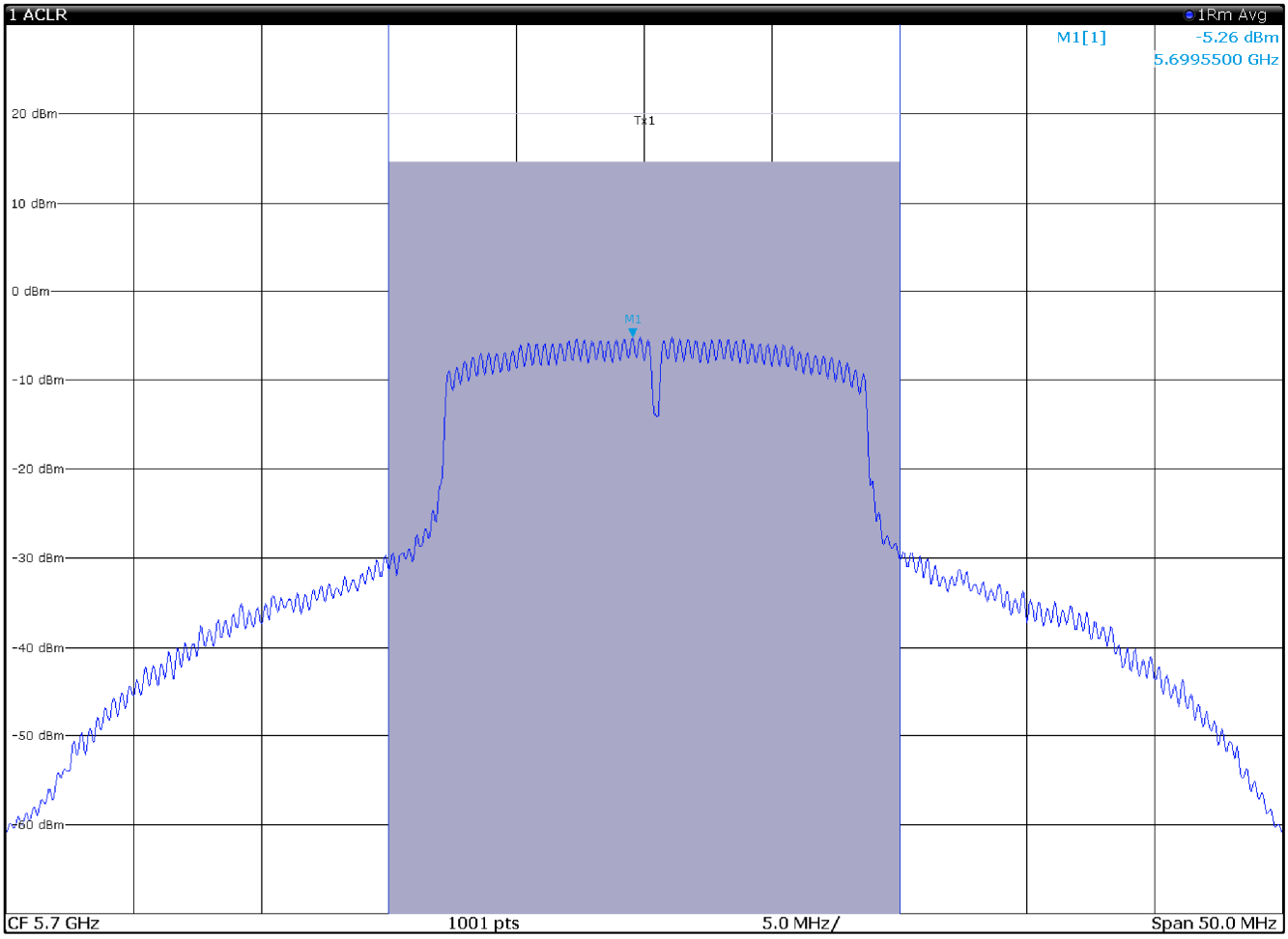
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**13.77 dBm**
Tx Total			**13.77 dBm**

Output power TX 57’00 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



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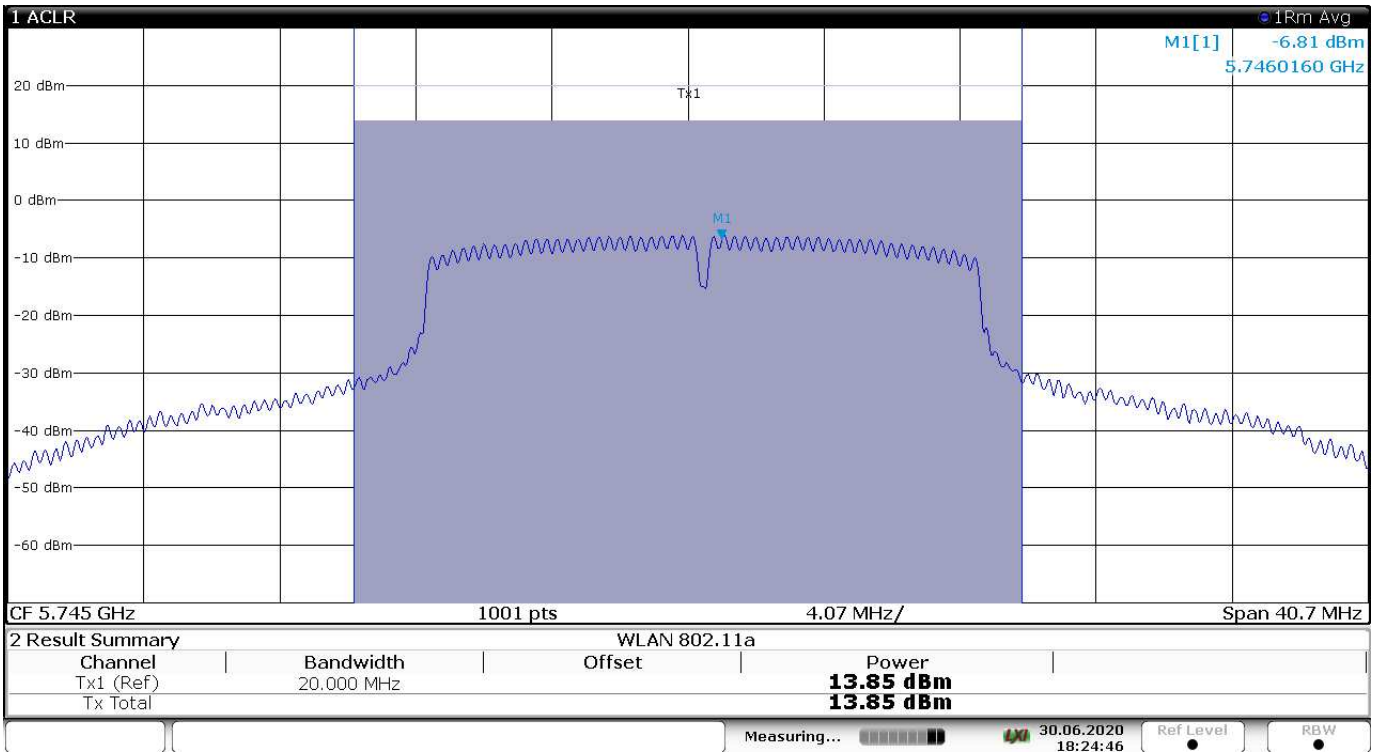
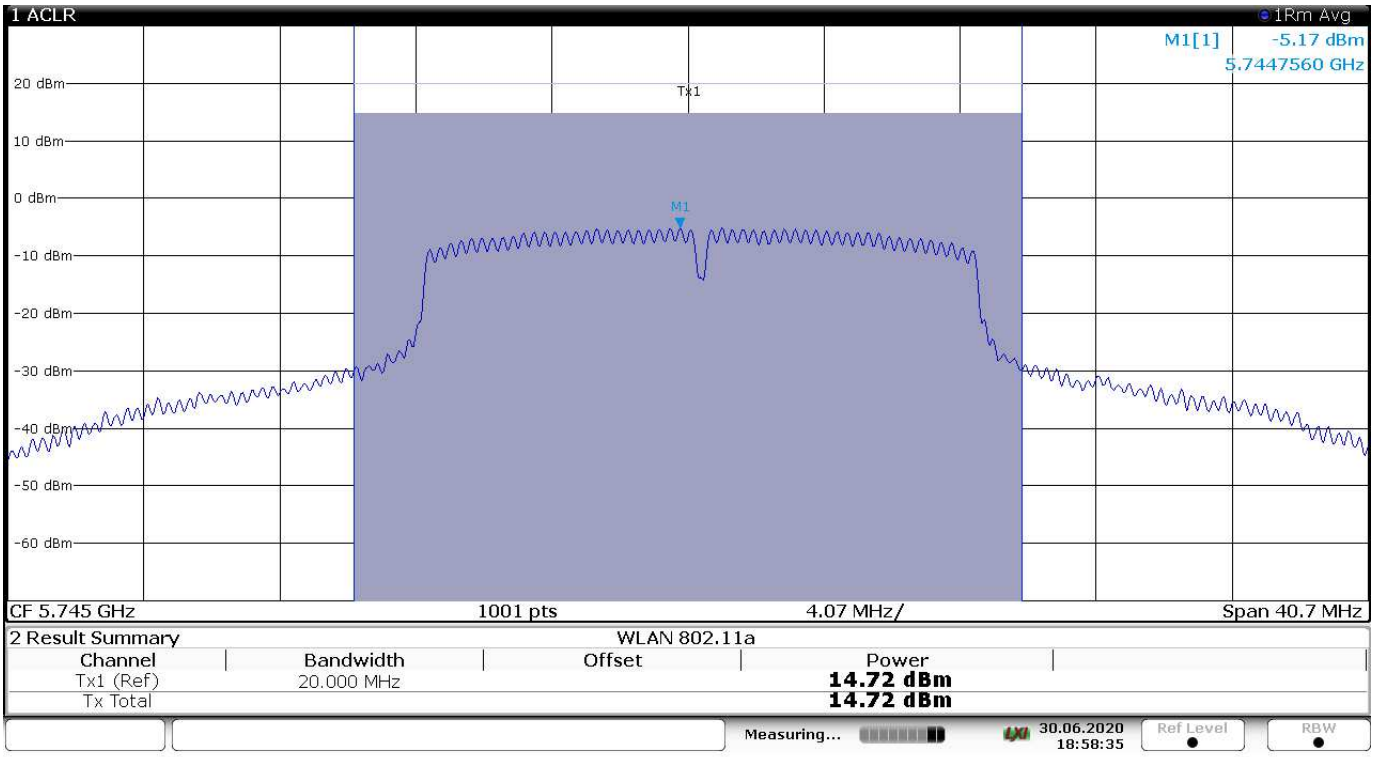
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**14.62 dBm**
Tx Total			**14.62 dBm**

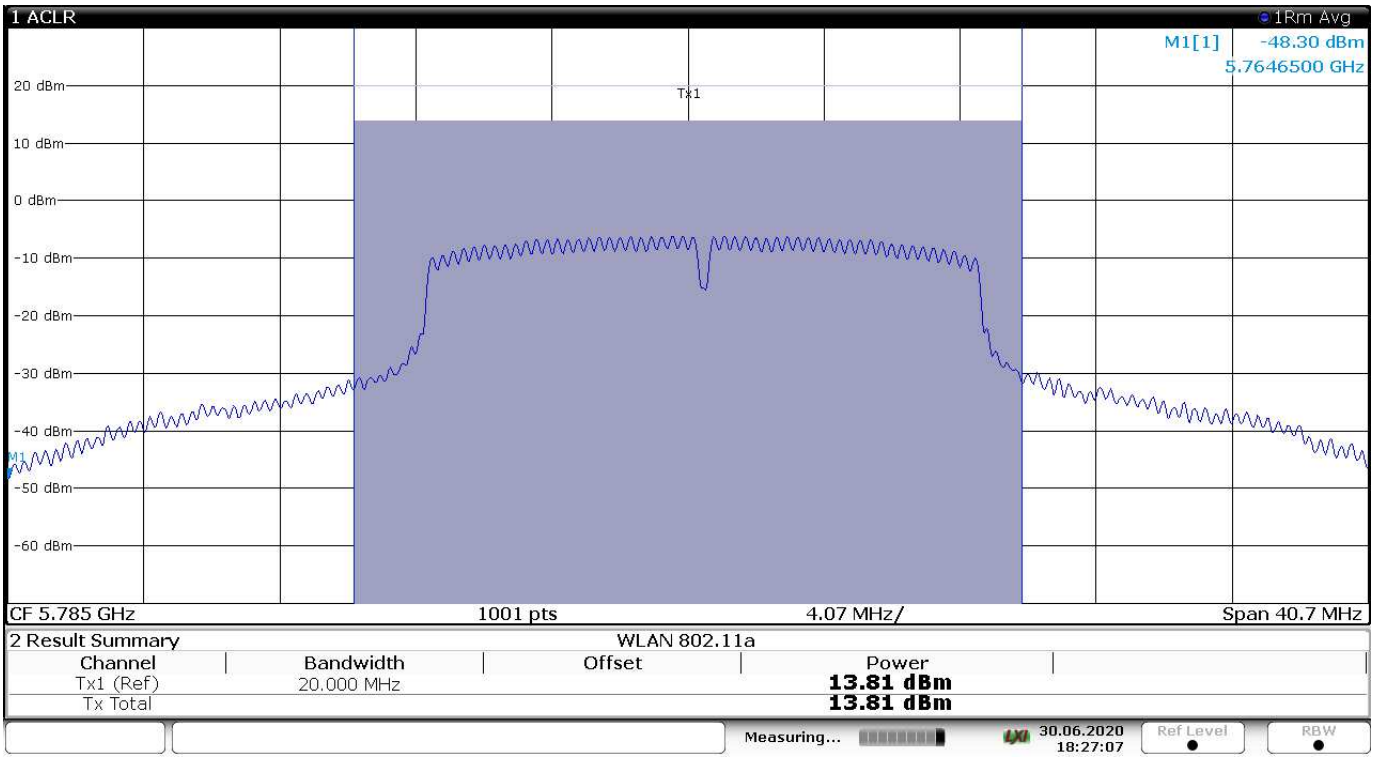
Output power TX 57'00 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



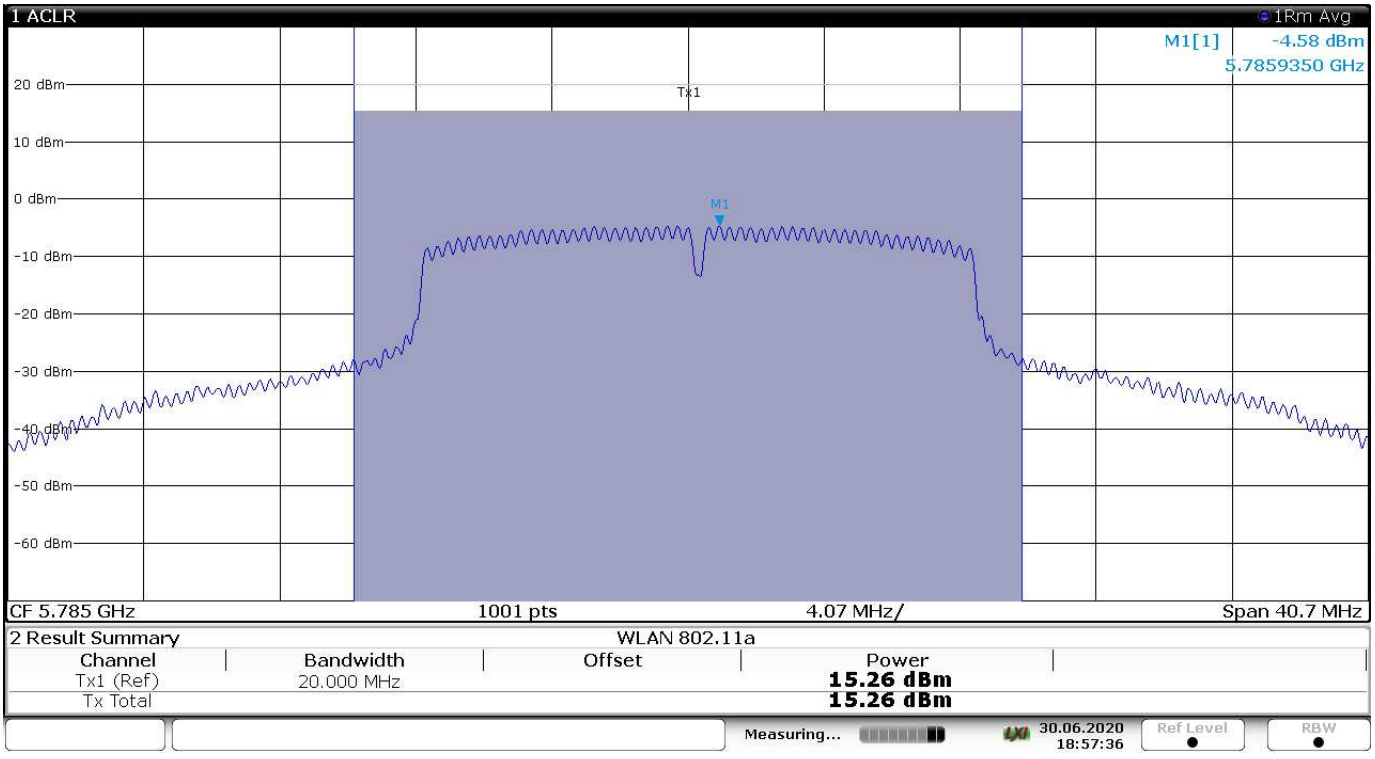
Output power TX 5745 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



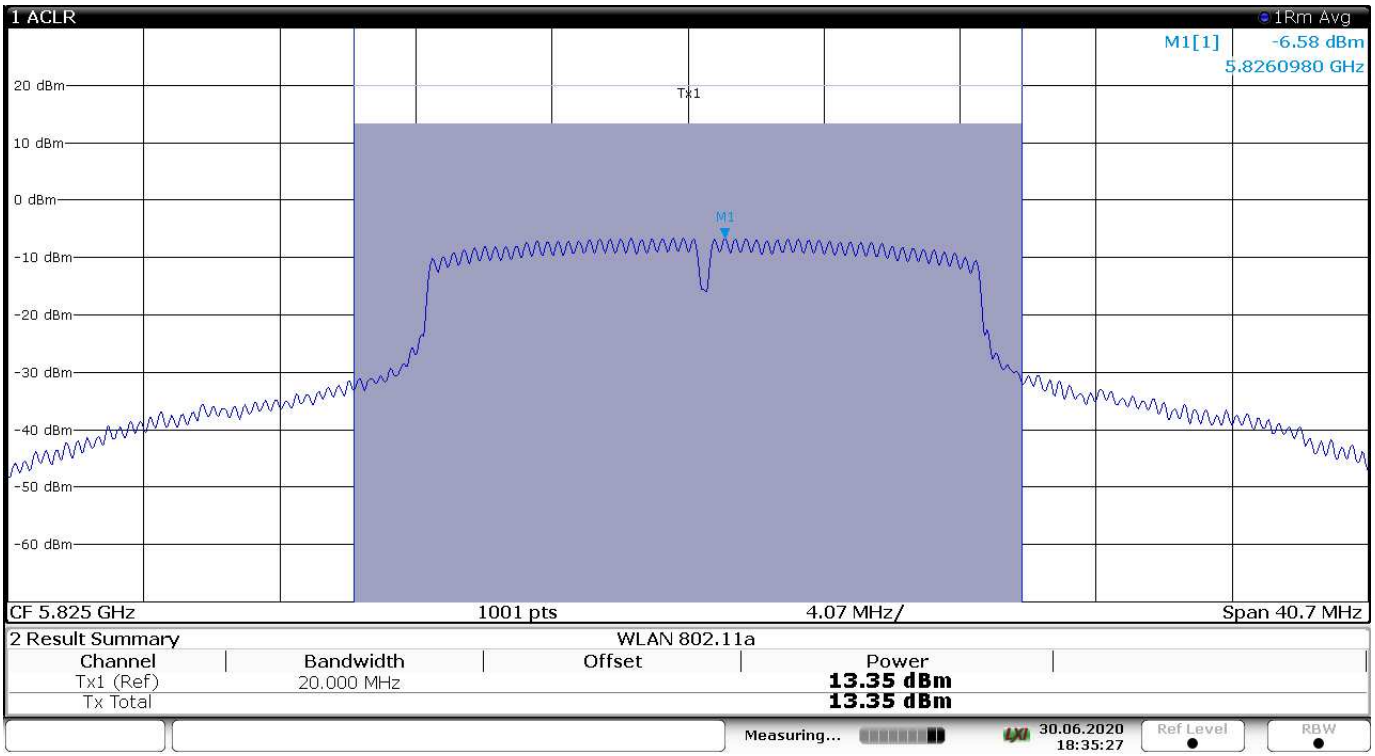
Output power TX 5745 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



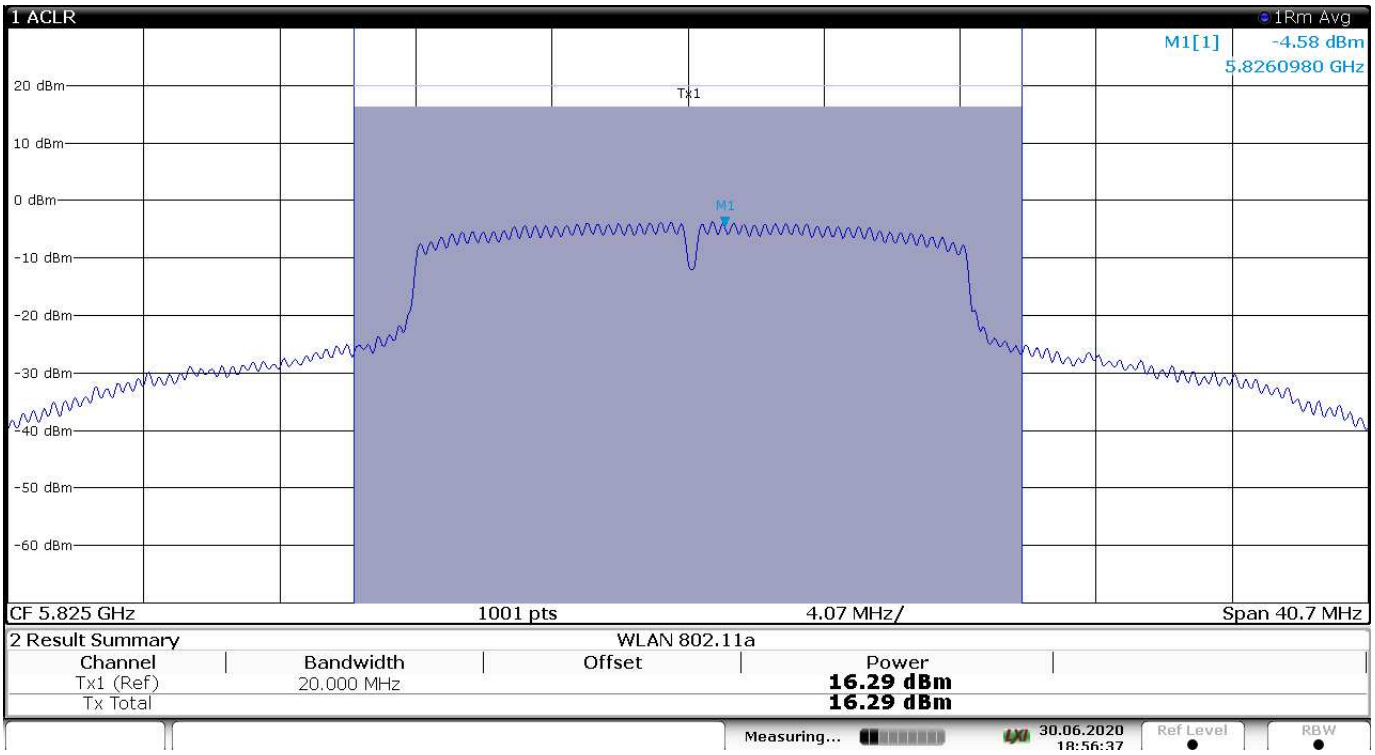
Output power TX 5785MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



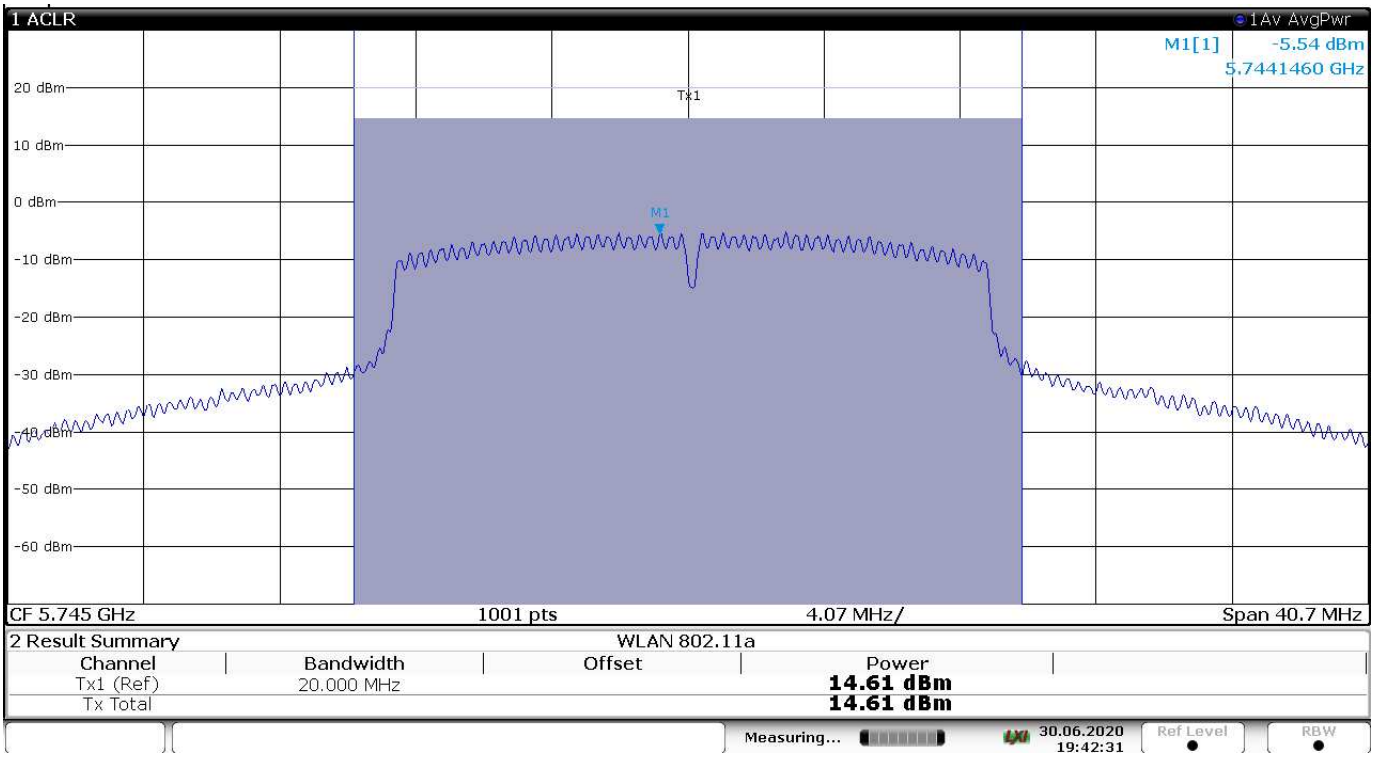
Output power TX 5785 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



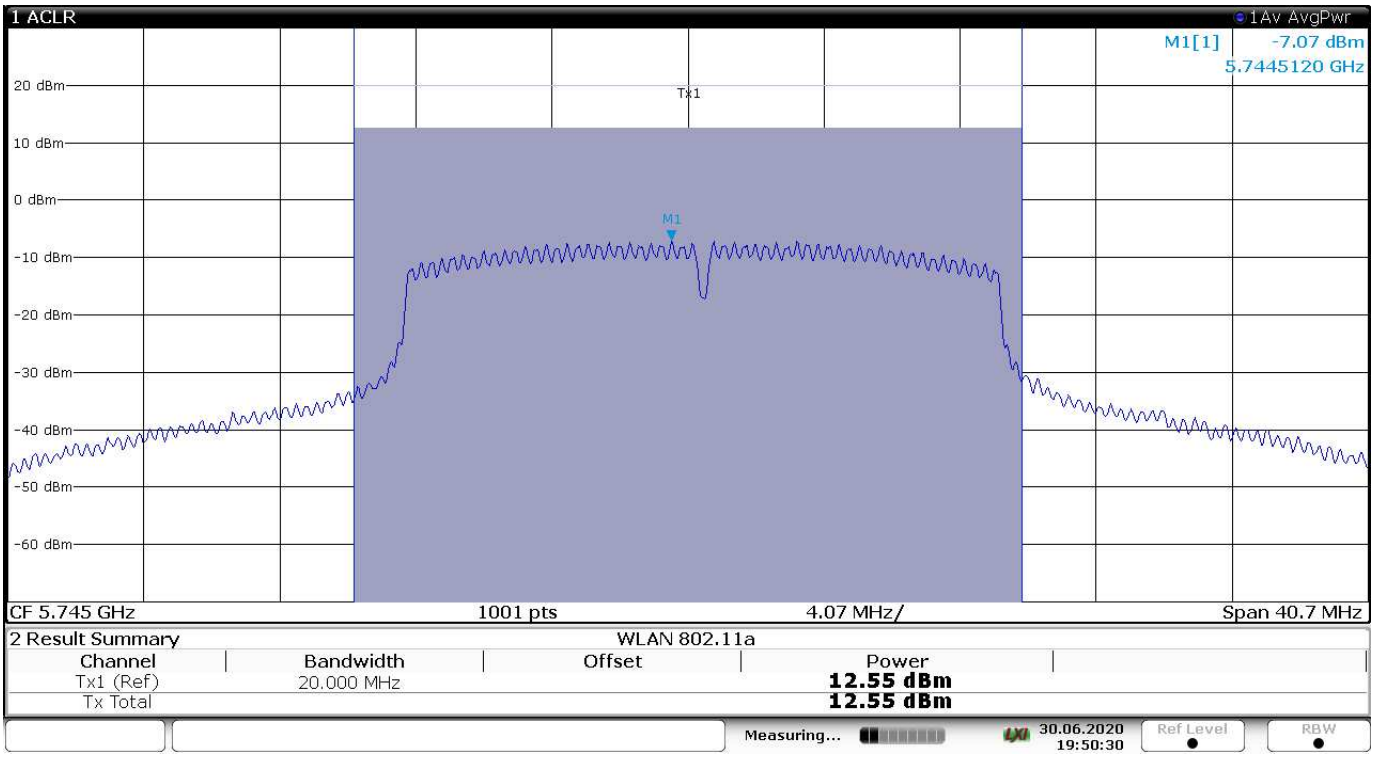
Output power TX 5825 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 0**



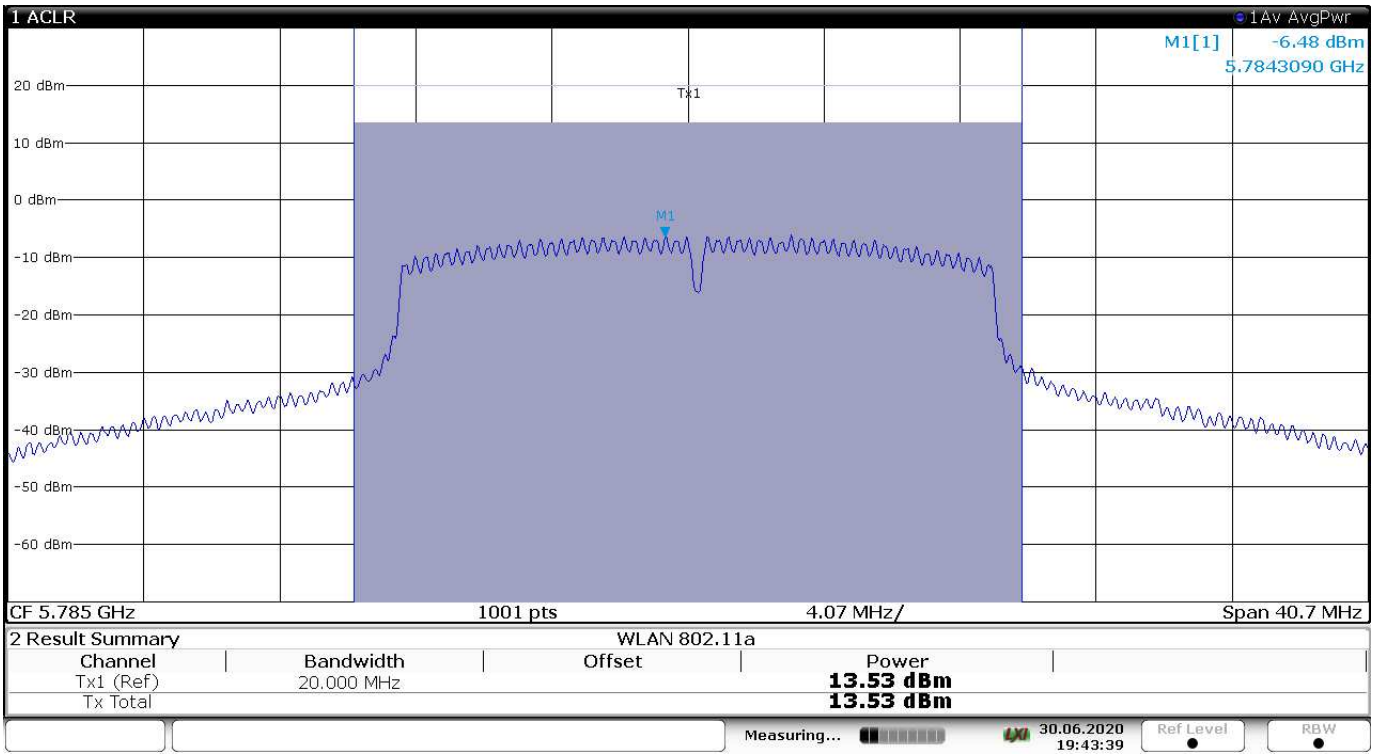
Output power TX 5825 MHz, CH48, 802.11a, 6Mbps, multi chain **chain 1**



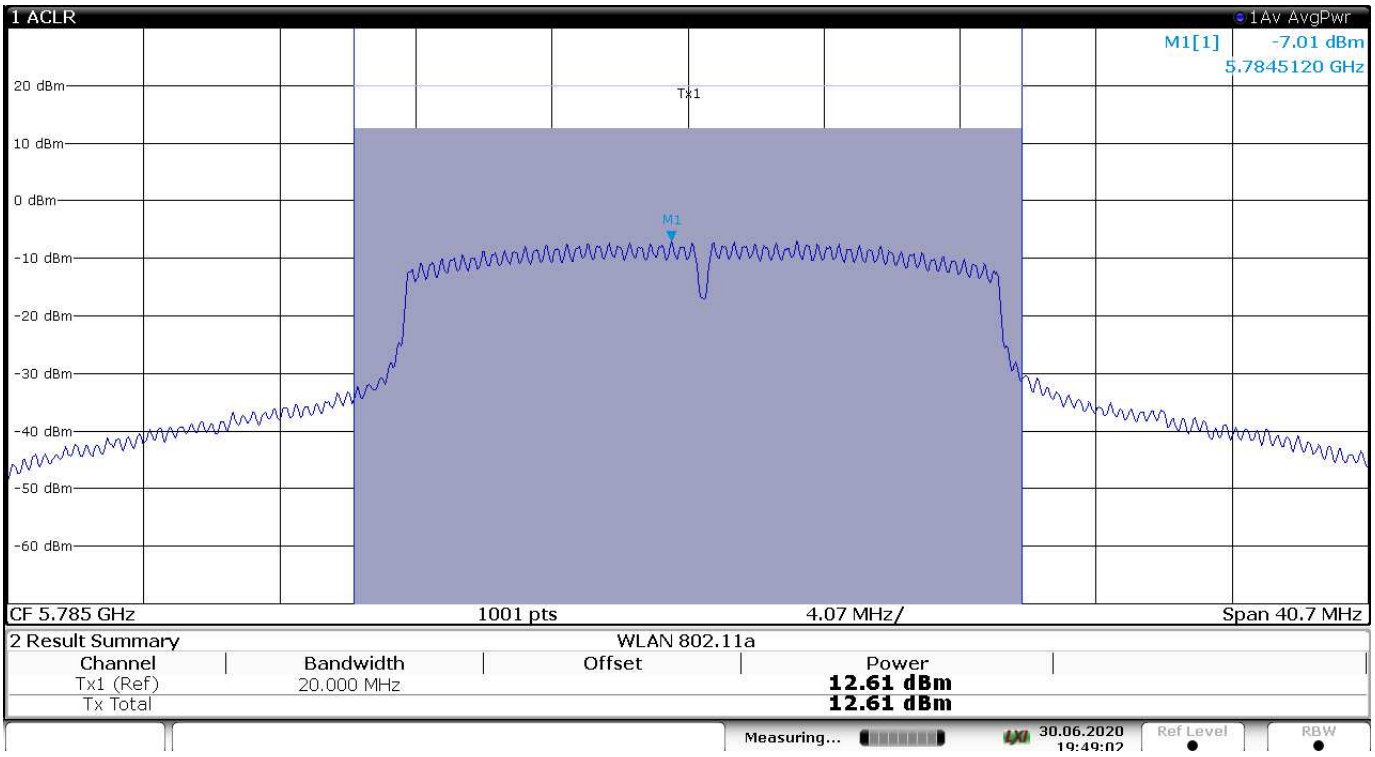
Output power TX 5745 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 0**



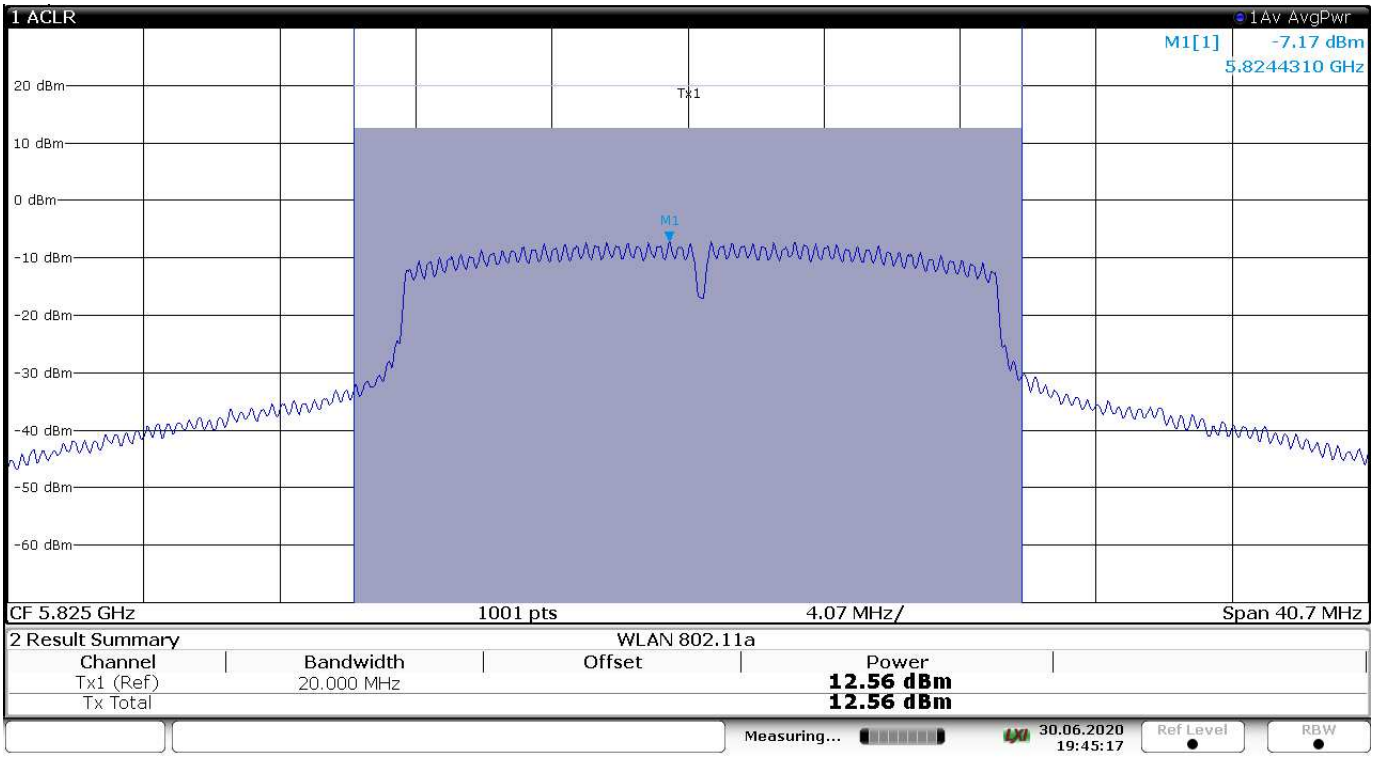
Output power TX 5745 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 1**



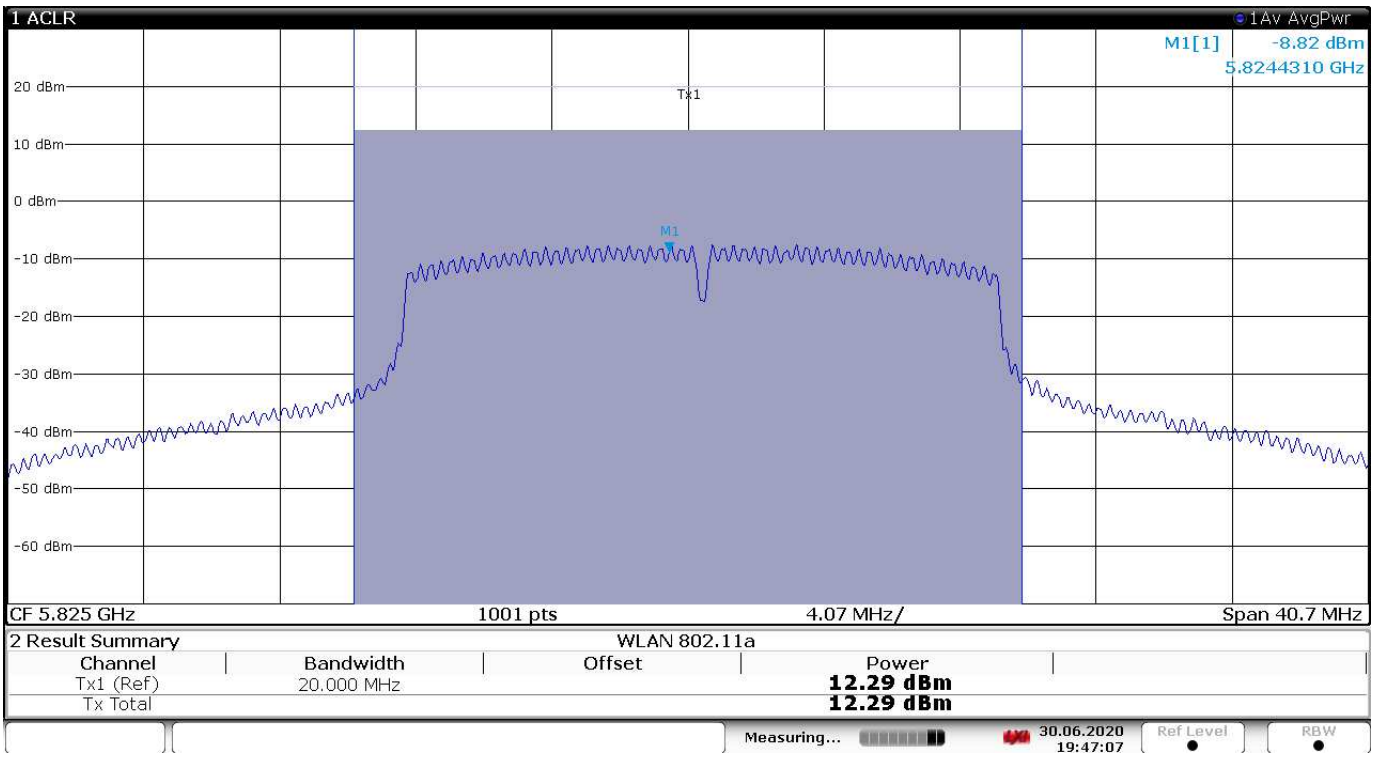
Output power TX 5785 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 0**



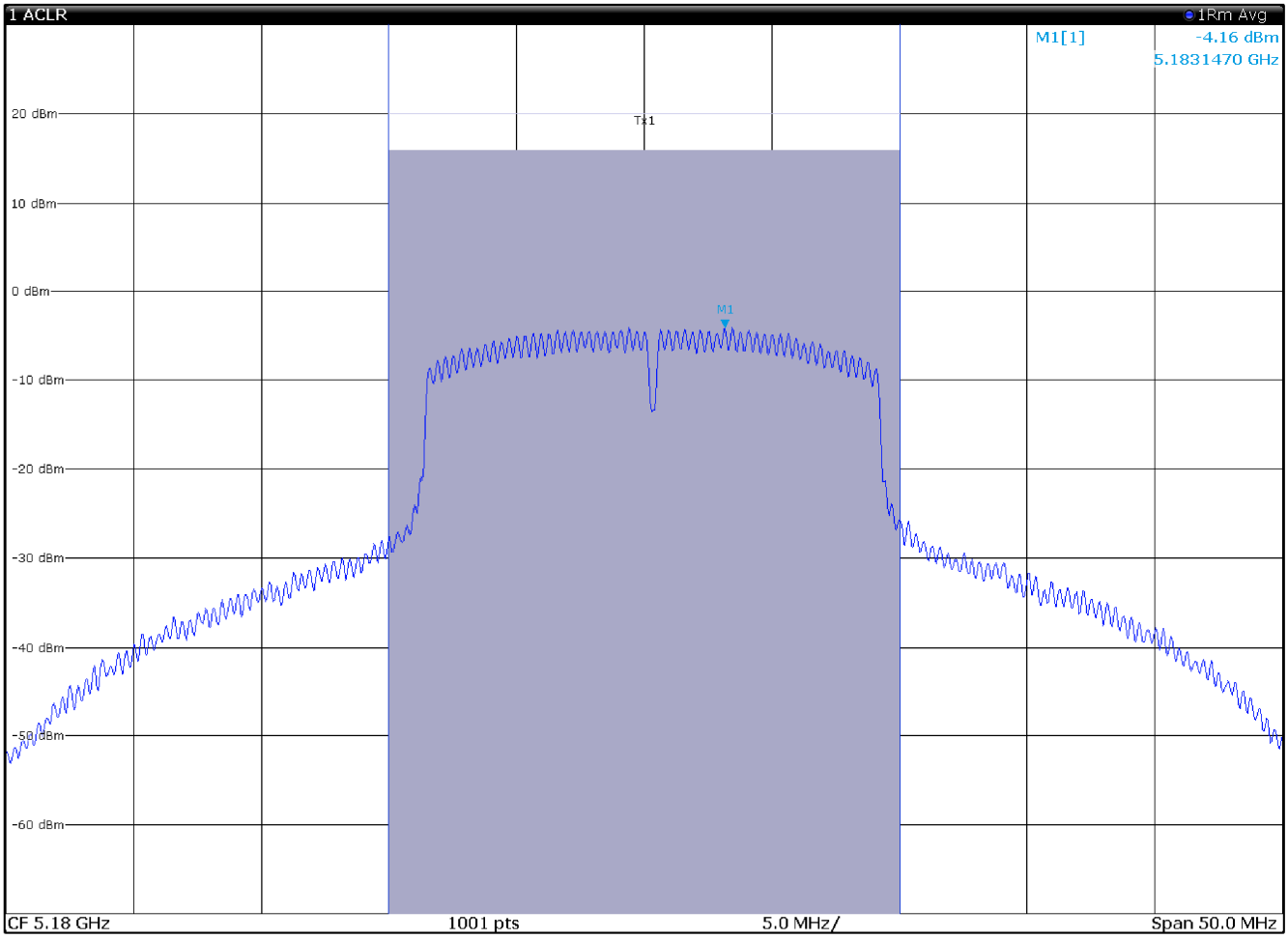
Output power TX 5785 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 1**



Output power TX 5825 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 0**



Output power TX 5825 MHz, CH149, 802.11n (HT20), 6.5Mbps, multi chain **chain 1**



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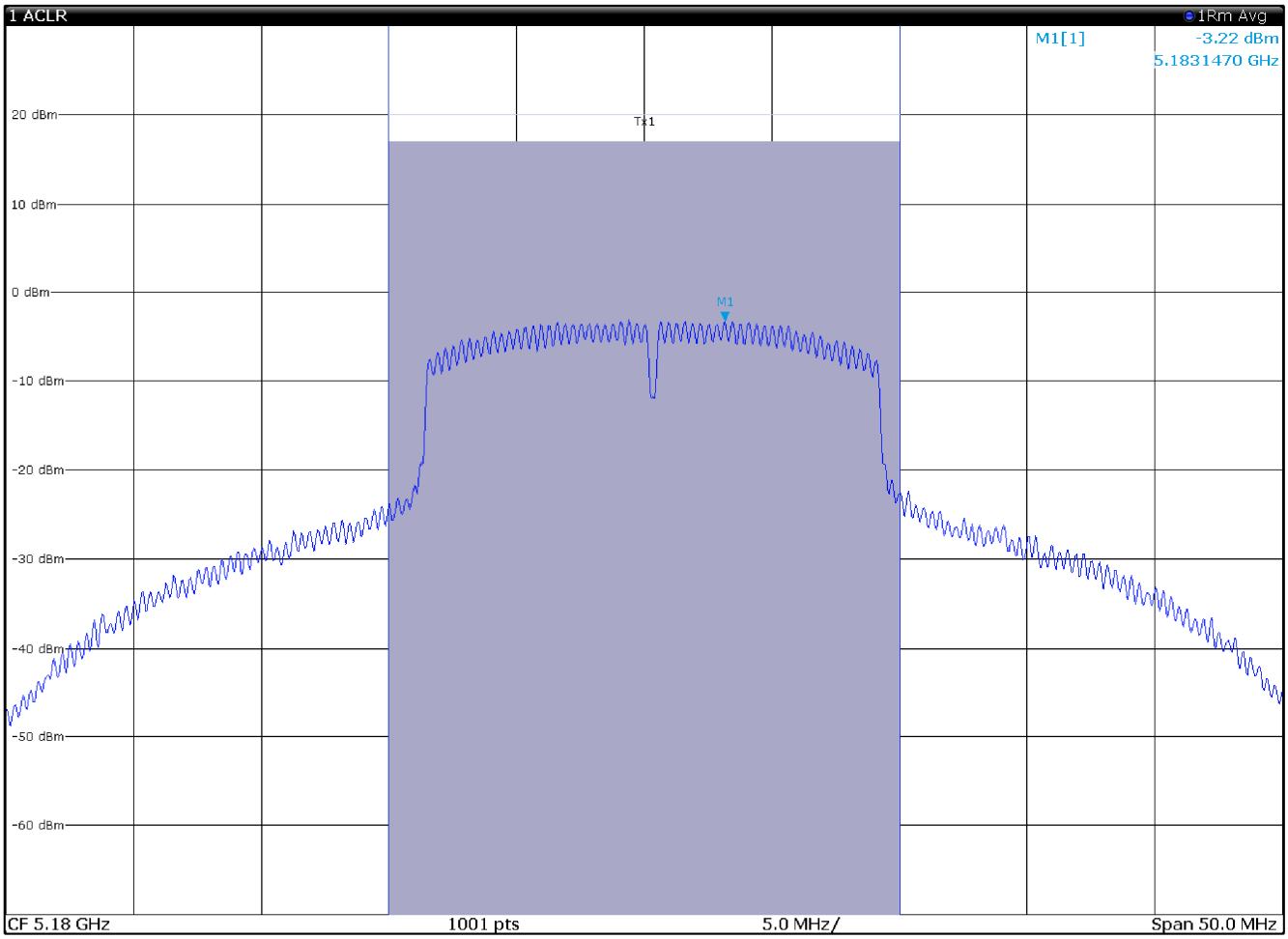
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.90 dBm**
Tx Total			**15.90 dBm**

Output power TX 5180 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 0**



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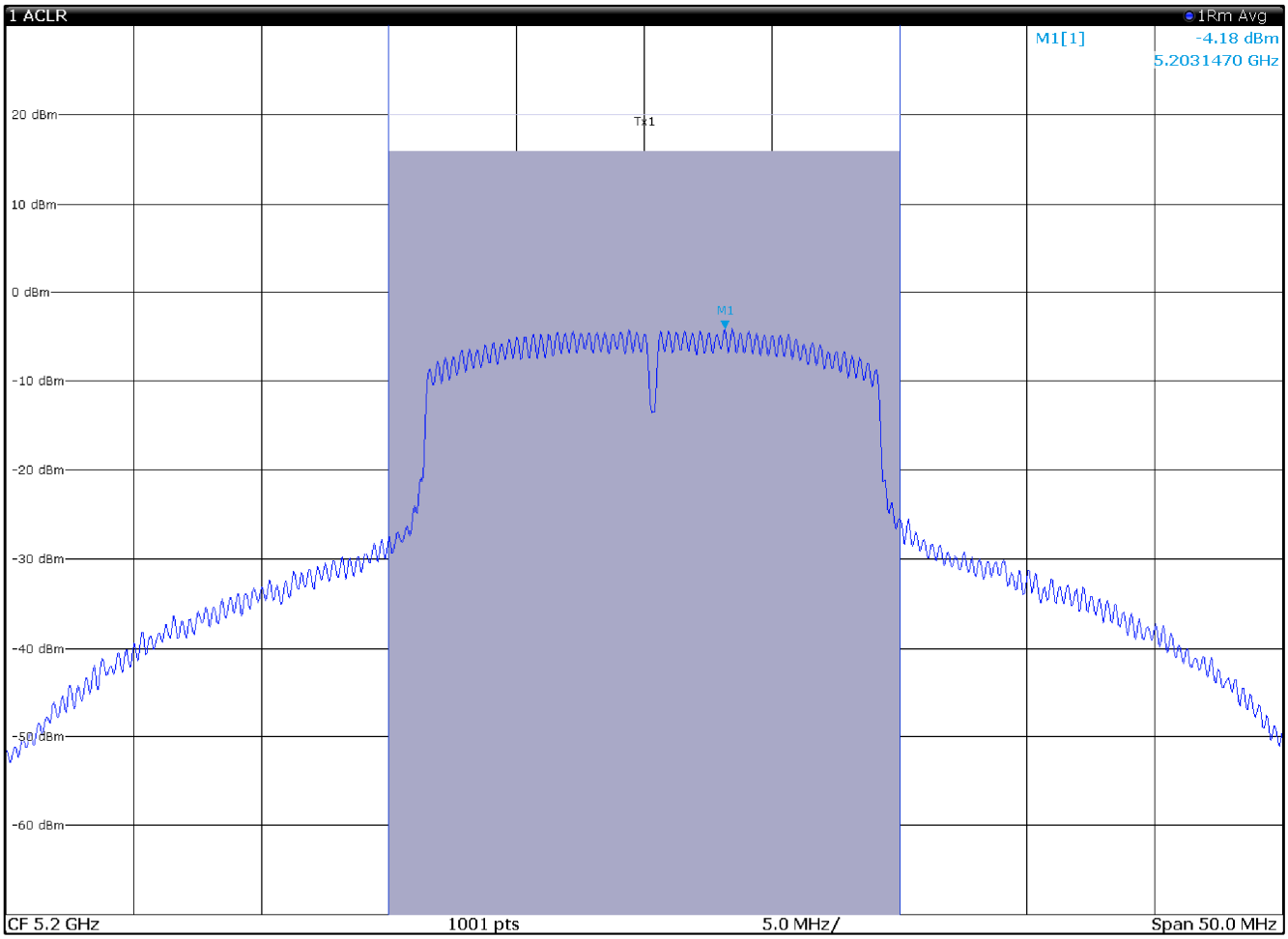
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.95 dBm**
Tx Total			**16.95 dBm**

Output power TX 5180 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 1**



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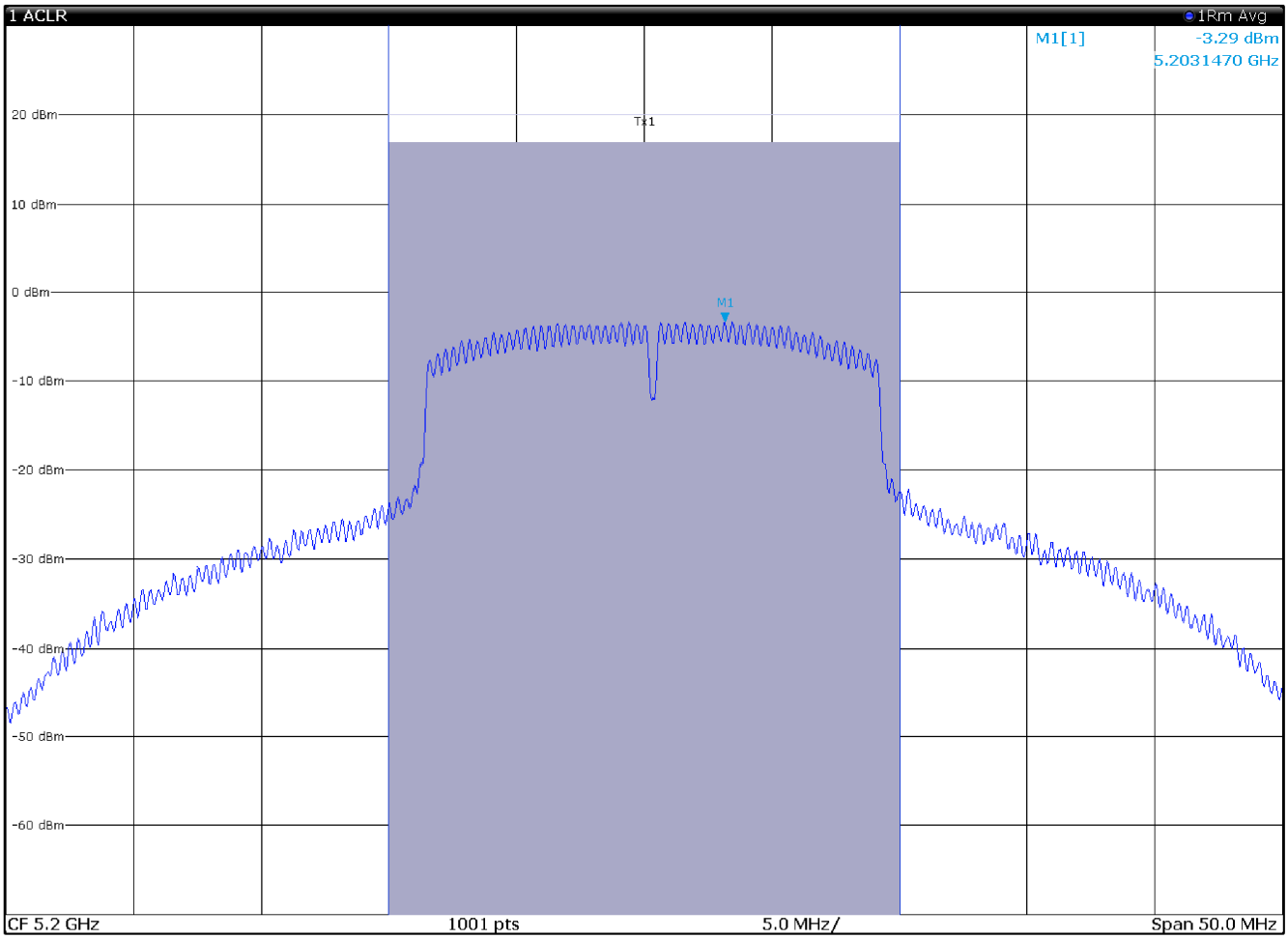
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.87 dBm**
Tx Total			**15.87 dBm**

Output power TX 5200 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 0**



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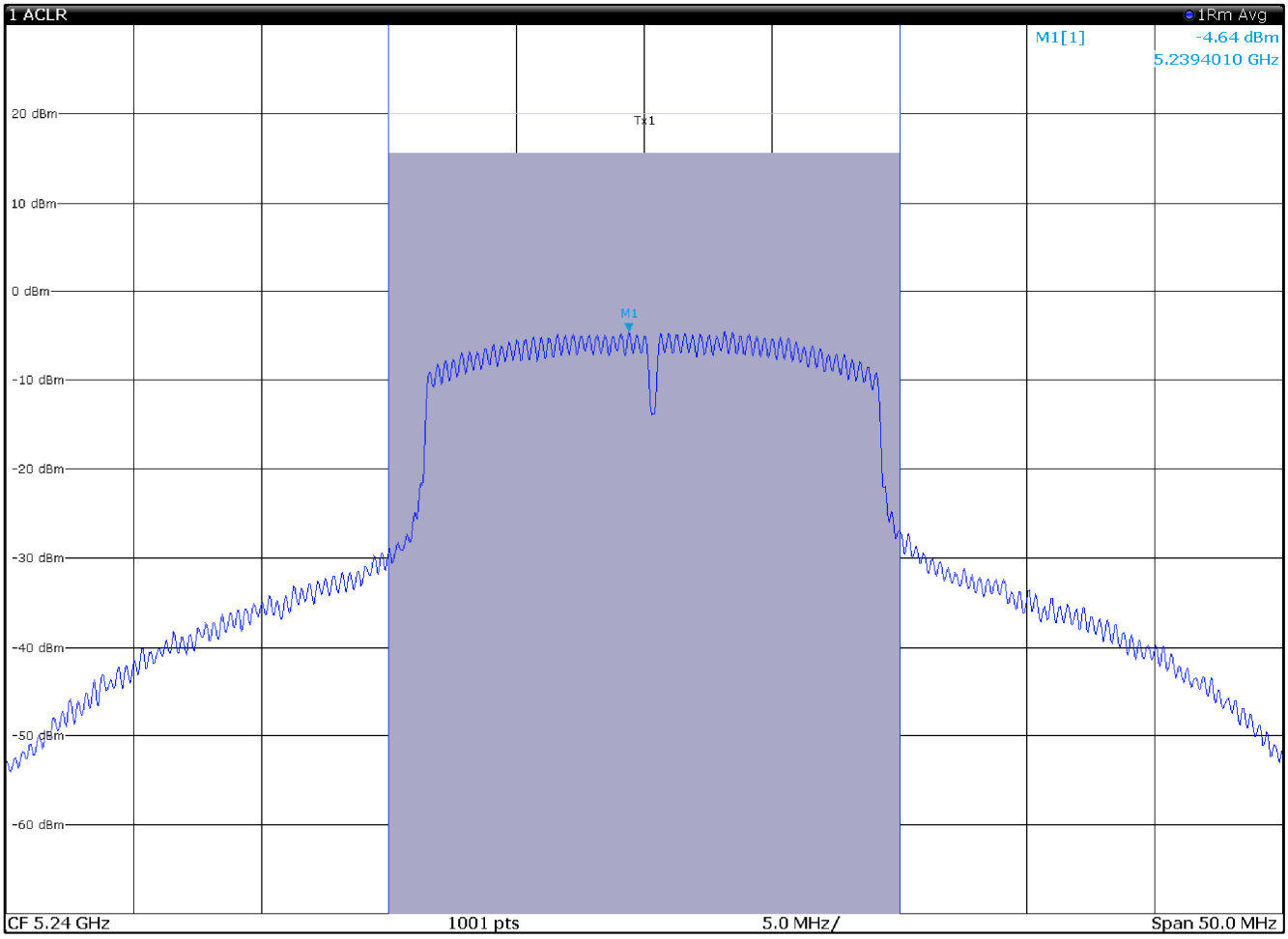
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.86 dBm**
Tx Total			**16.86 dBm**

Output power TX 5200 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 1**



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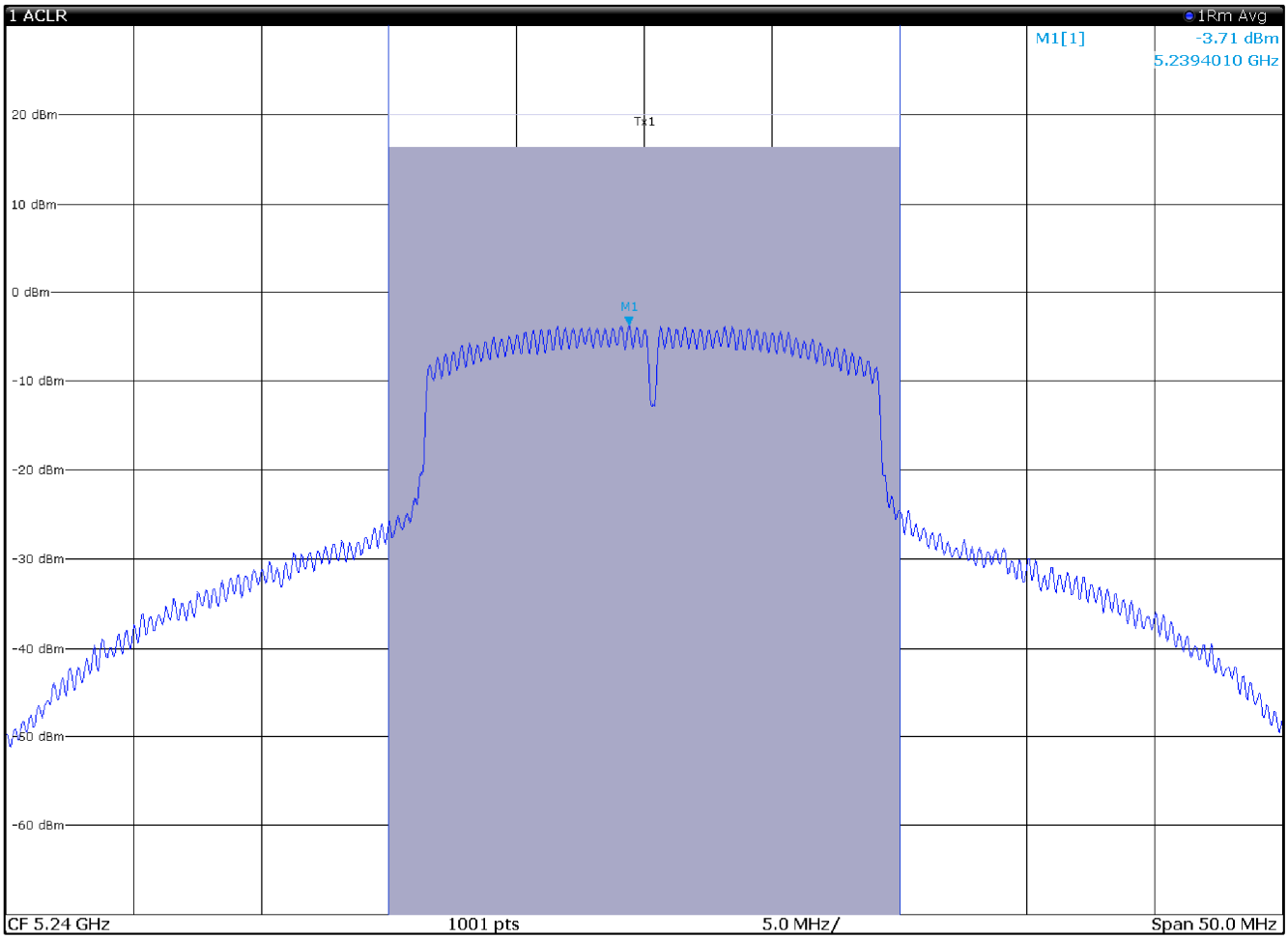
2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**15.51 dBm**
Tx Total			**15.51 dBm**

Output power TX 5240 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 0**



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2 Result Summary		WLAN 802.11a	
Channel	Bandwidth	Offset	Power
Tx1 (Ref)	20.000 MHz		**16.31 dBm**
Tx Total			**16.31 dBm**

Output power TX 5240 MHz, CH36, 802.11n (20MHz), 6.5Mbps,, multi chain **chain 1**