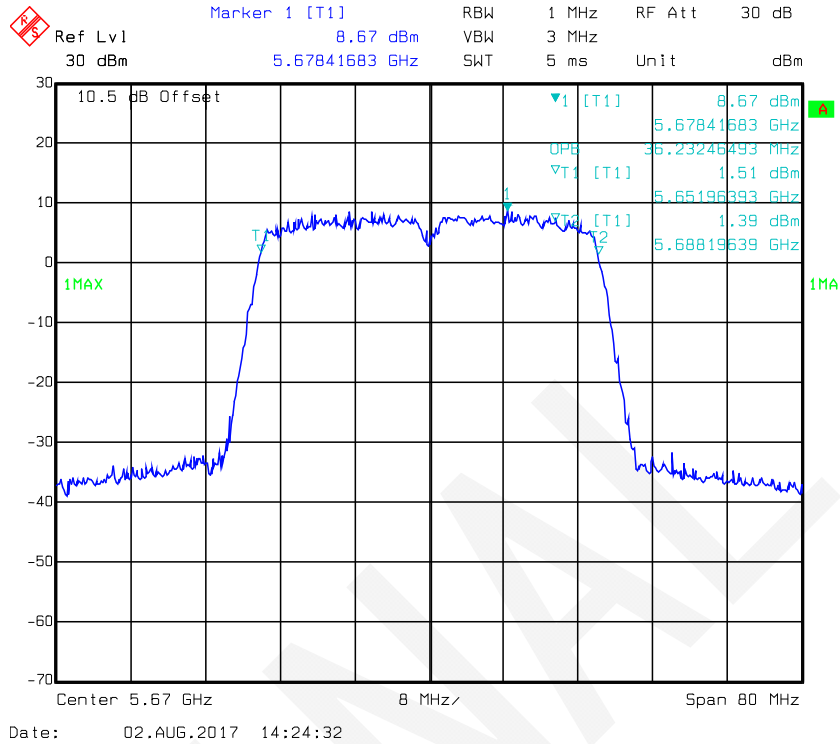
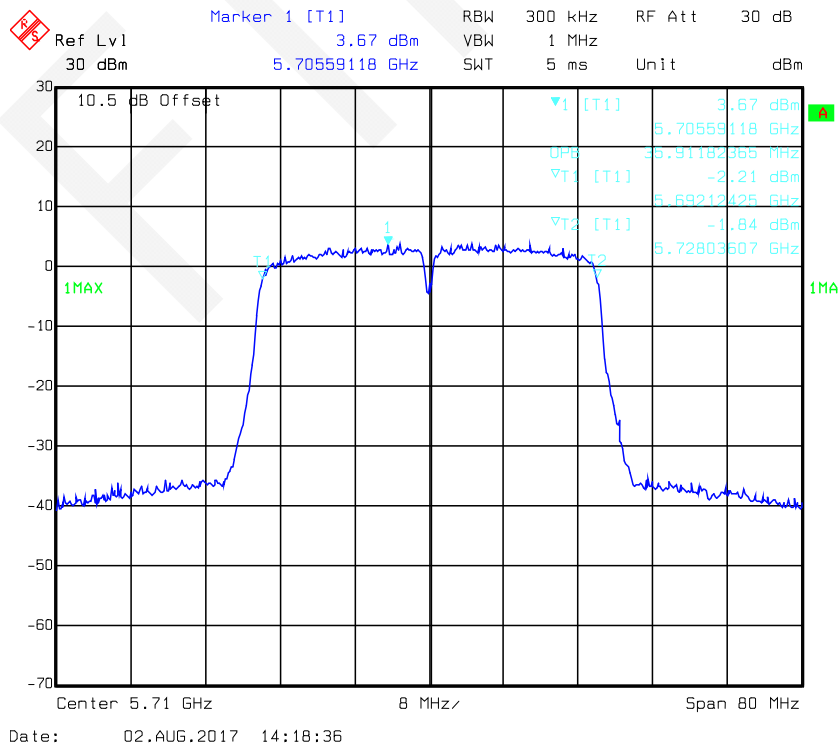


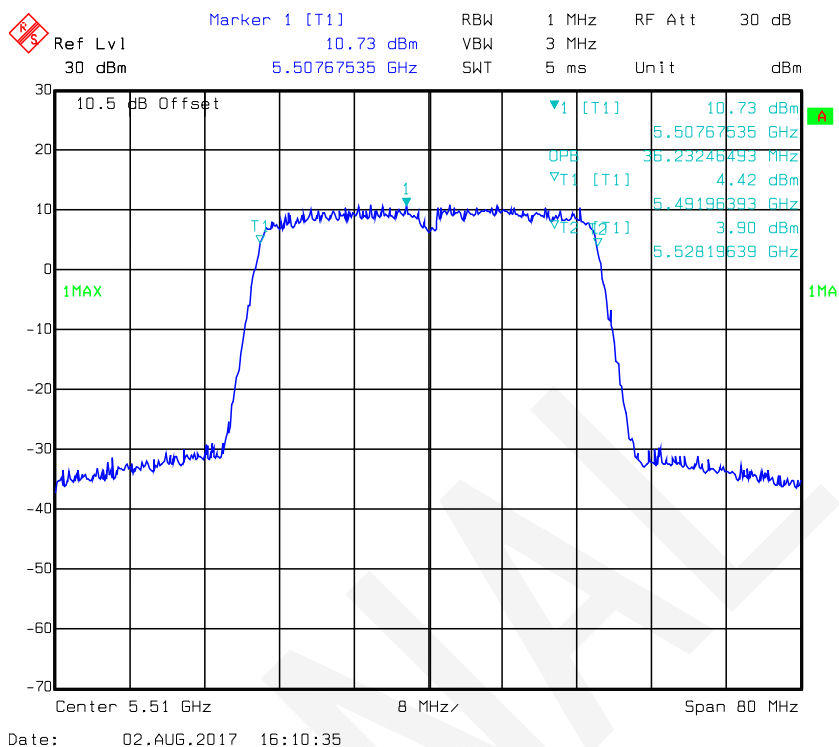
### 802.11ac40 mode, 99% Occupied Bandwidth-5670 MHz, Antenna 0



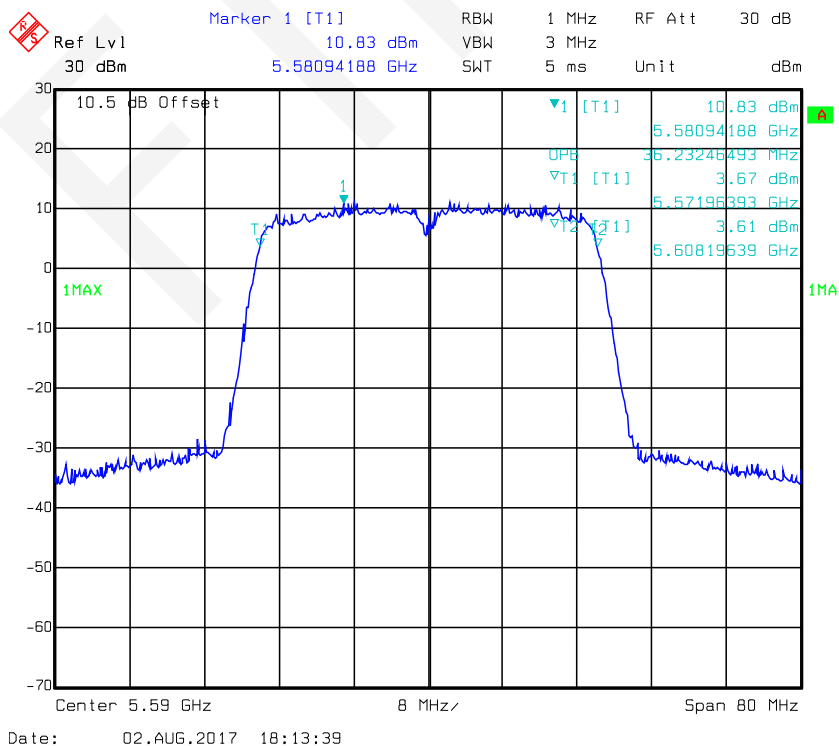
### 802.11ac40 mode, 99% Occupied Bandwidth-5710 MHz, Antenna 0



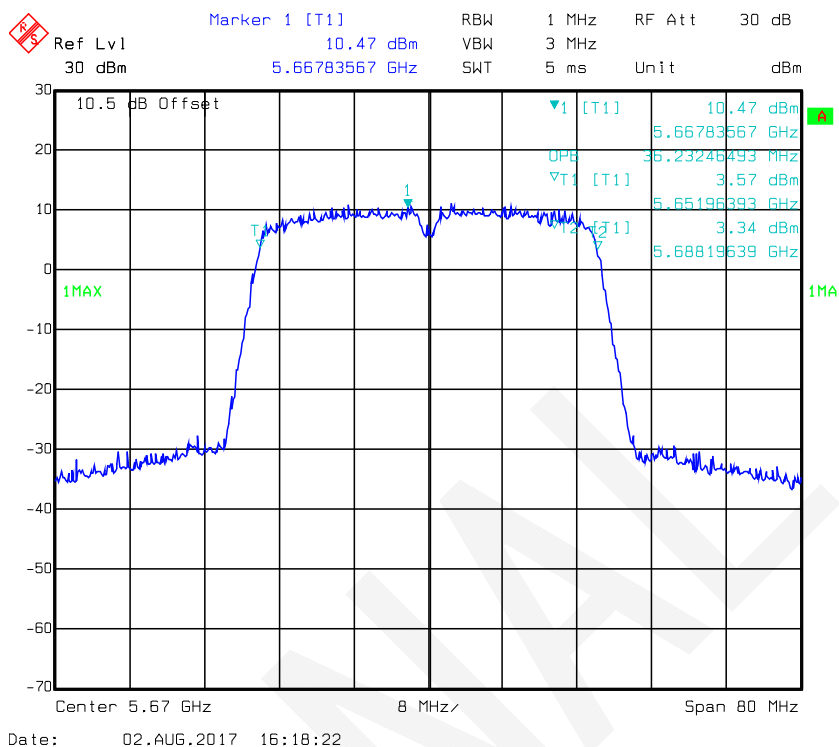
### 802.11ac40 mode, 99% Occupied Bandwidth-5510 MHz, Antenna 1



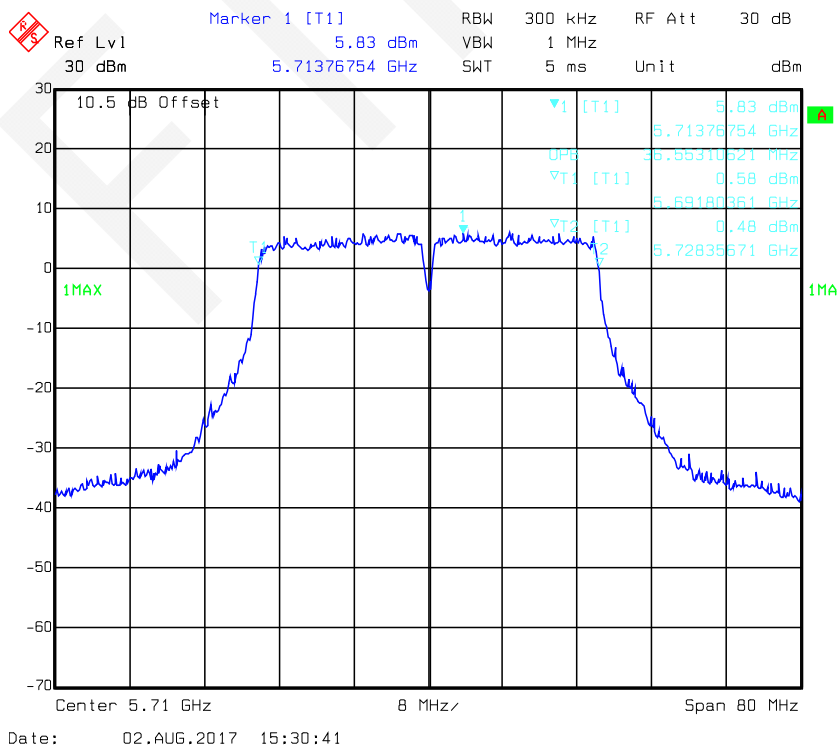
### 802.11ac40 mode, 99% Occupied Bandwidth-5590 MHz, Antenna 1



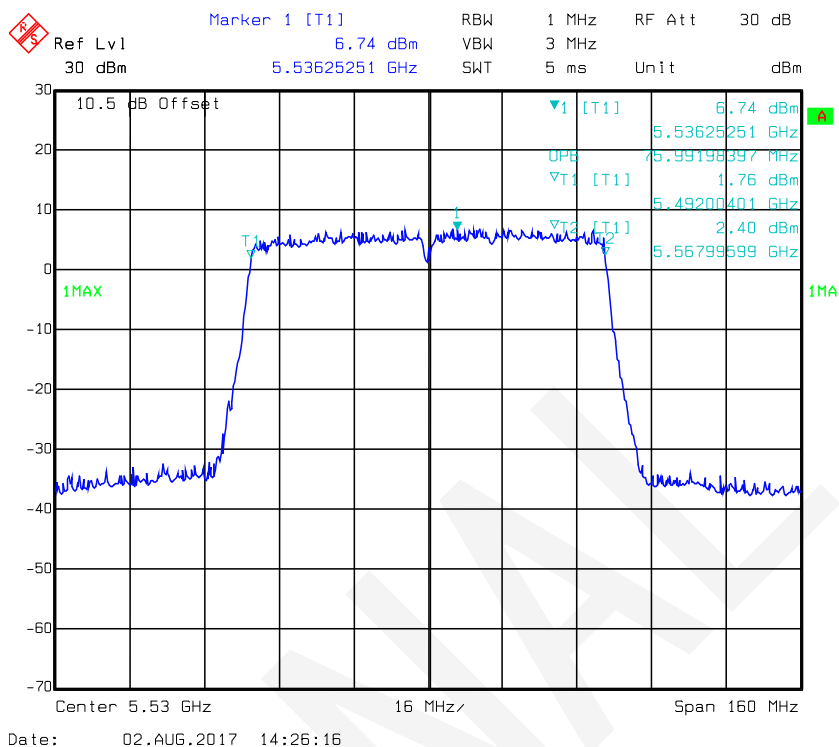
### 802.11ac40 mode, 99% Occupied Bandwidth-5670 MHz, Antenna 1



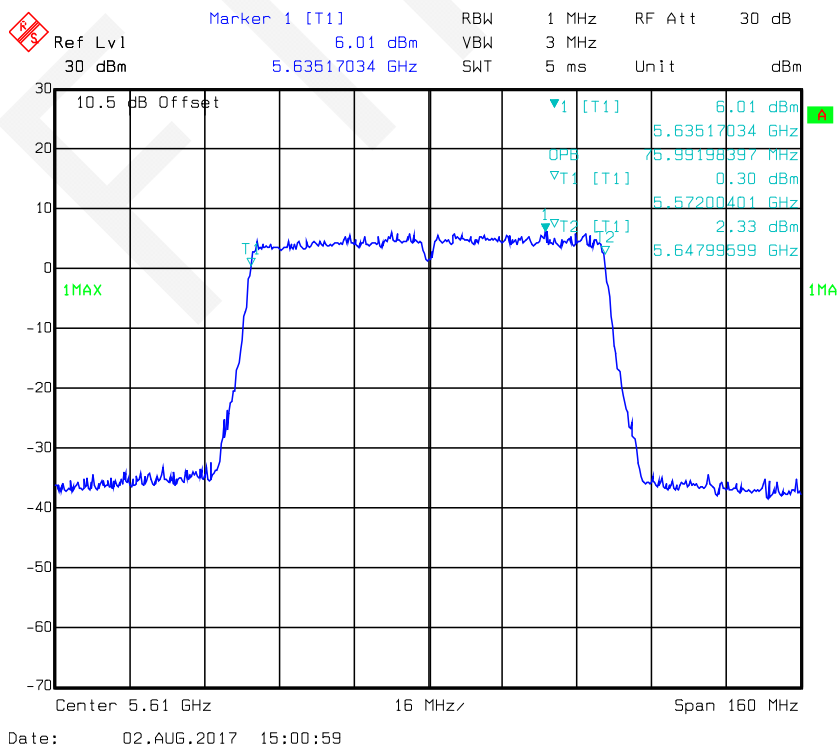
### 802.11ac40 mode, 99% Occupied Bandwidth-5710 MHz, Antenna 0



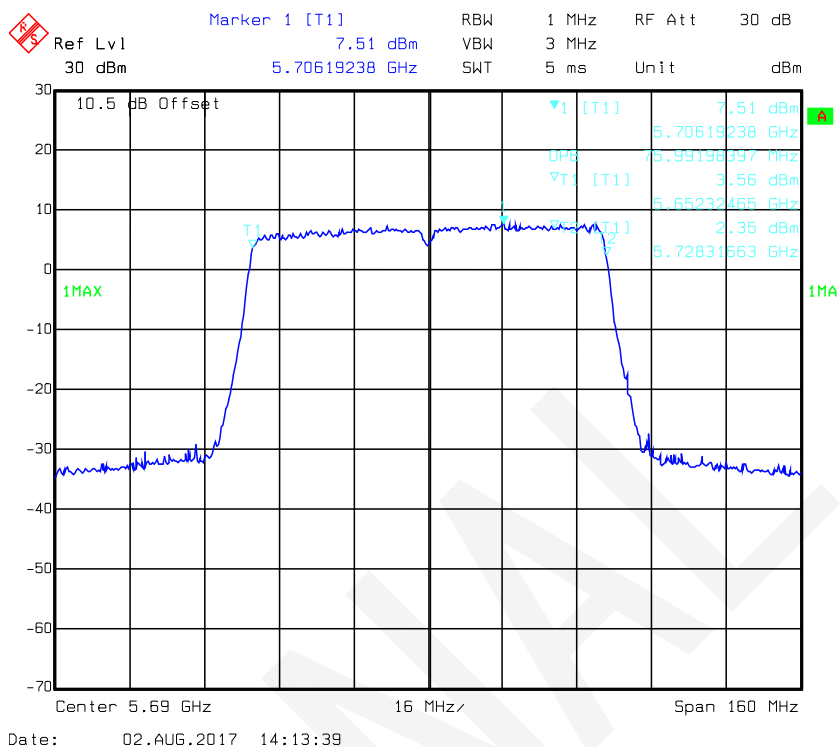
### 802.11ac80 mode, 99% Occupied Bandwidth-5530 MHz, Antenna 0



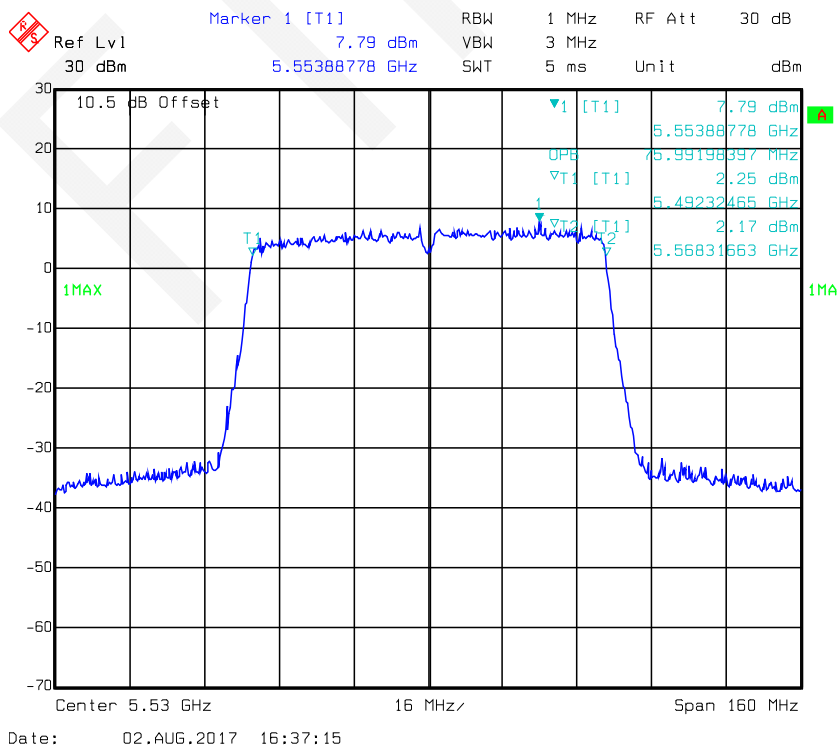
### 802.11ac80 mode, 99% Occupied Bandwidth-5610 MHz, Antenna 0



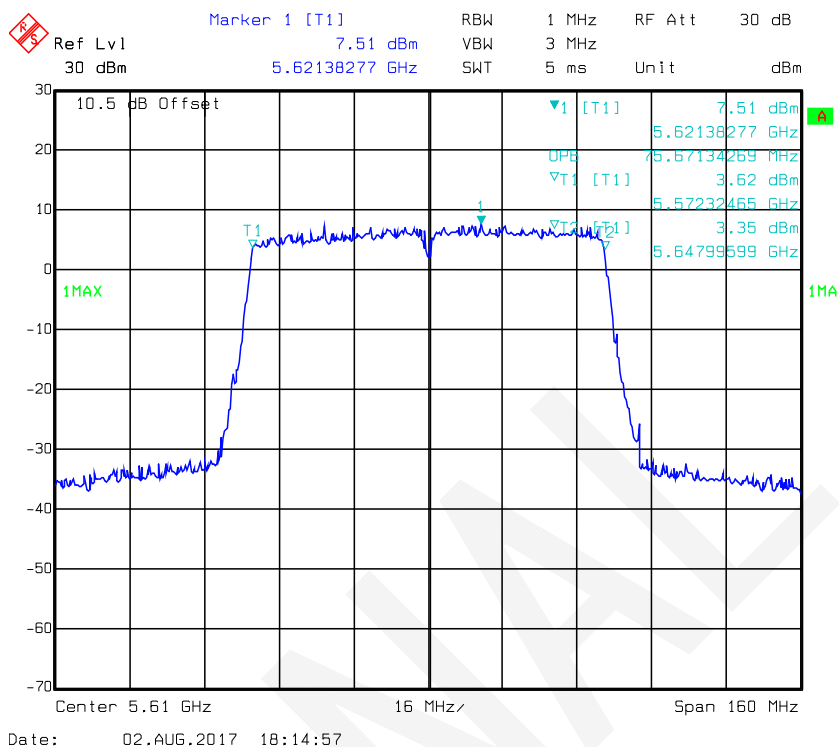
### 802.11ac80 mode, 99% Occupied Bandwidth-5690 MHz, Antenna 0



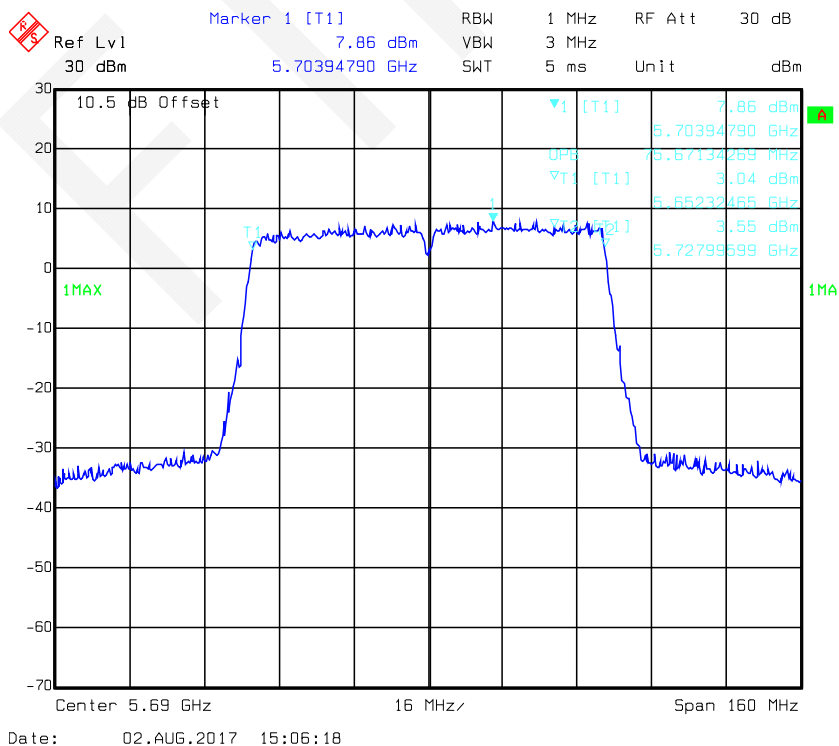
### 802.11ac80 mode, 99% Occupied Bandwidth-5530 MHz, Antenna 0



### 802.11ac80 mode, 99% Occupied Bandwidth-5610 MHz, Antenna 0



### 802.11ac80 mode, 99% Occupied Bandwidth-5690 MHz, Antenna 0



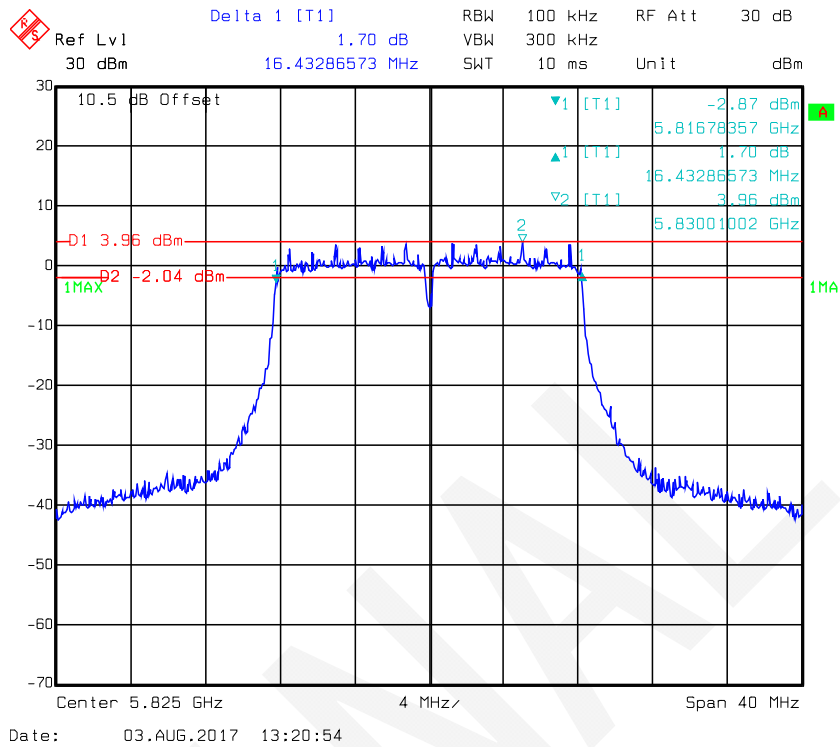
**For 5725-5850 MHz:**

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
			Antenna 0	Antenna 1	Antenna 0	Antenna 1
802.11a	Low	5745	16.43	16.43	16.51	16.59
	Middle	5785	16.43	16.43	16.51	16.59
	High	5825	16.43	16.35	16.51	16.59
802.11n-HT20	Low	5745	17.64	17.56	17.72	17.72
	Middle	5785	17.64	17.64	17.72	17.72
	High	5825	17.64	17.56	17.72	17.72
802.11n-HT40	Low	5755	35.75	35.91	36.23	36.23
	High	5795	36.07	35.75	36.23	36.23
802.11ac20	Low	5745	17.64	17.64	17.72	17.72
	Middle	5785	17.64	17.56	17.72	17.72
	High	5825	17.56	17.64	17.72	17.72
802.11ac40	Low	5755	35.75	35.91	36.23	36.23
	High	5795	35.75	35.43	36.23	36.23
802.11ac80	Middle	5775	76.63	76.63	75.67	75.67

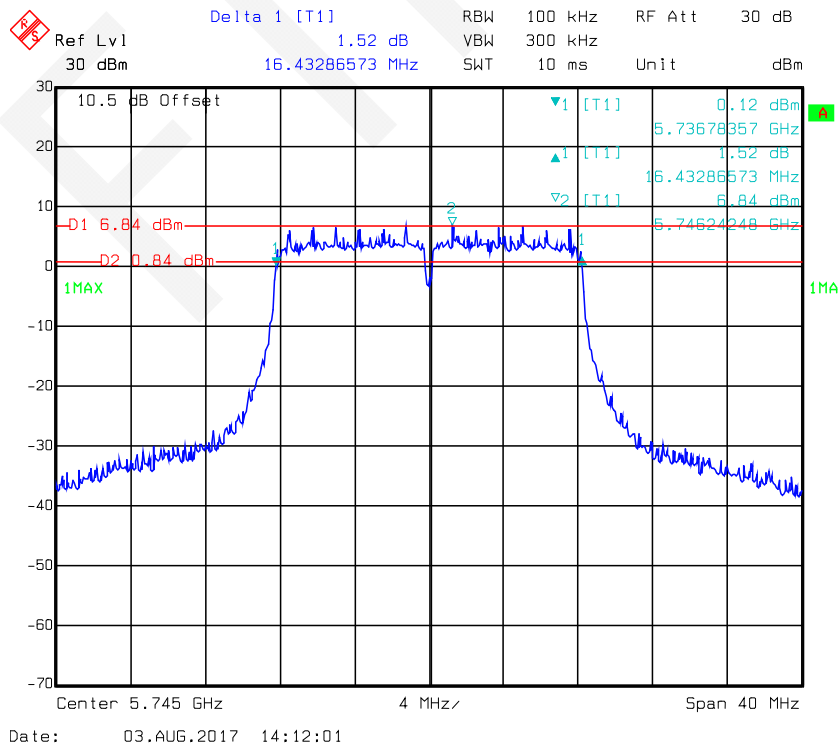




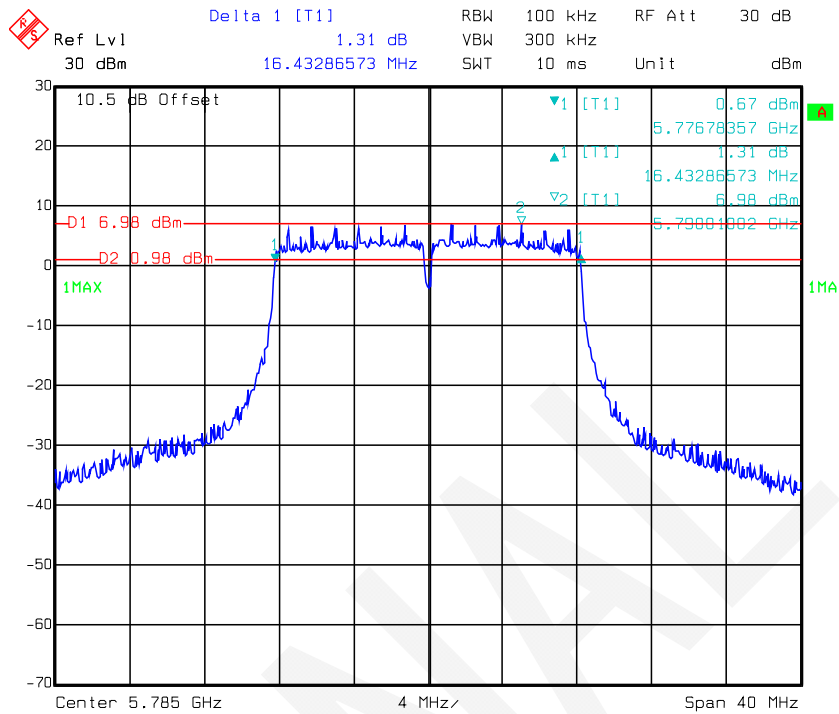
### 802.11a mode, 6 dB Bandwidth-5825 MHz, Antenna 0



### 802.11a mode, 6 dB Bandwidth-5745 MHz, Antenna 1

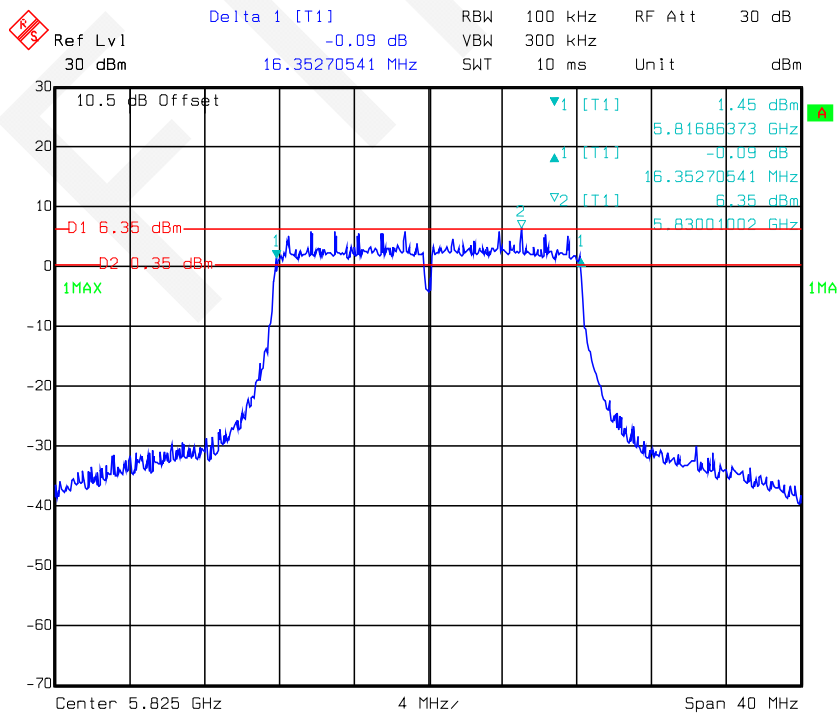


### 802.11a mode, 6 dB Bandwidth-5785 MHz, Antenna 1



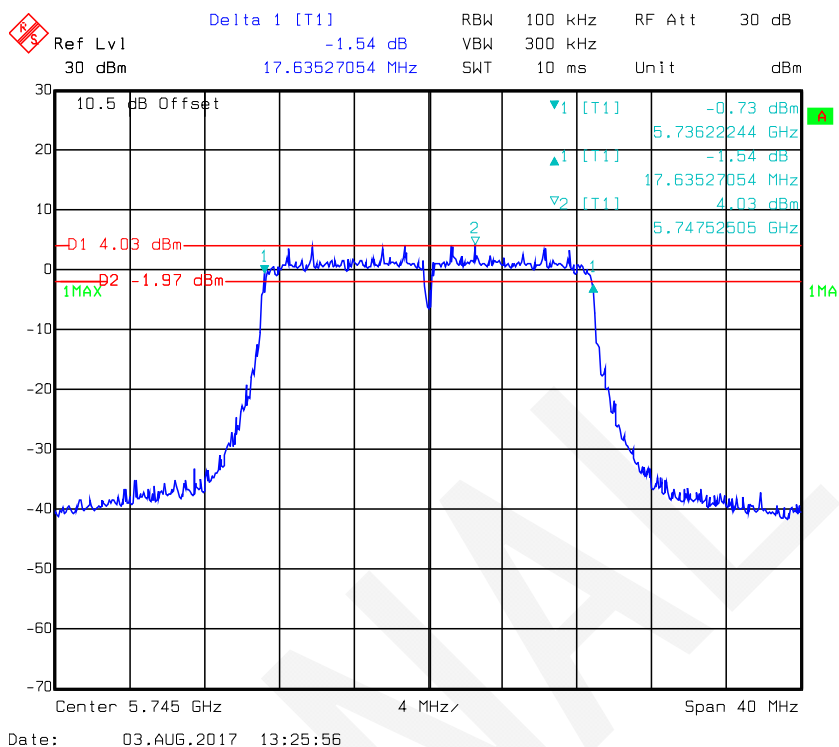
Date: 03.AUG.2017 14:12:51

### 802.11a mode, 6 dB Bandwidth-5825 MHz, Antenna 1

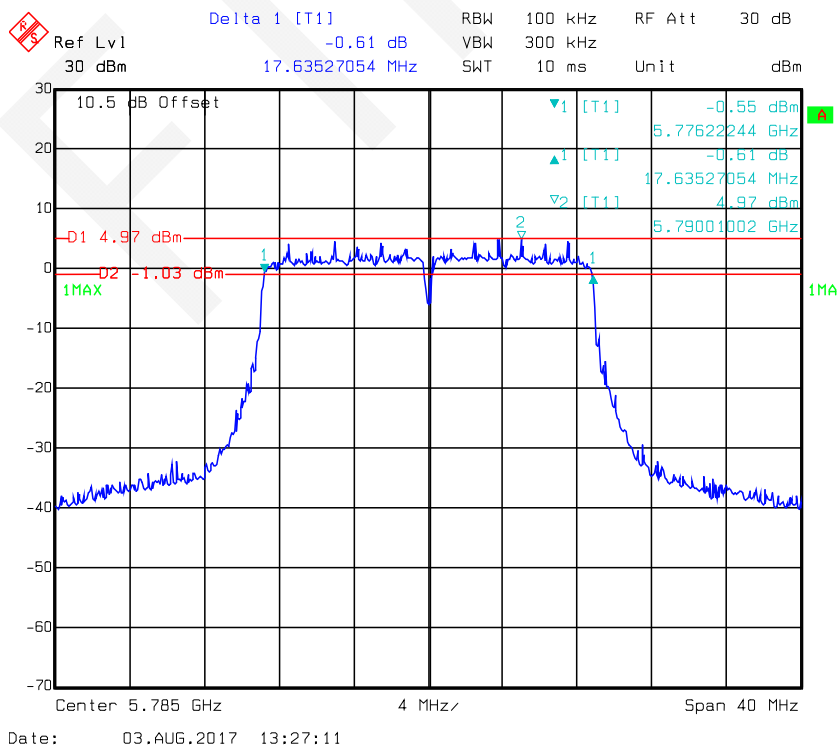


Date: 03.AUG.2017 14:13:53

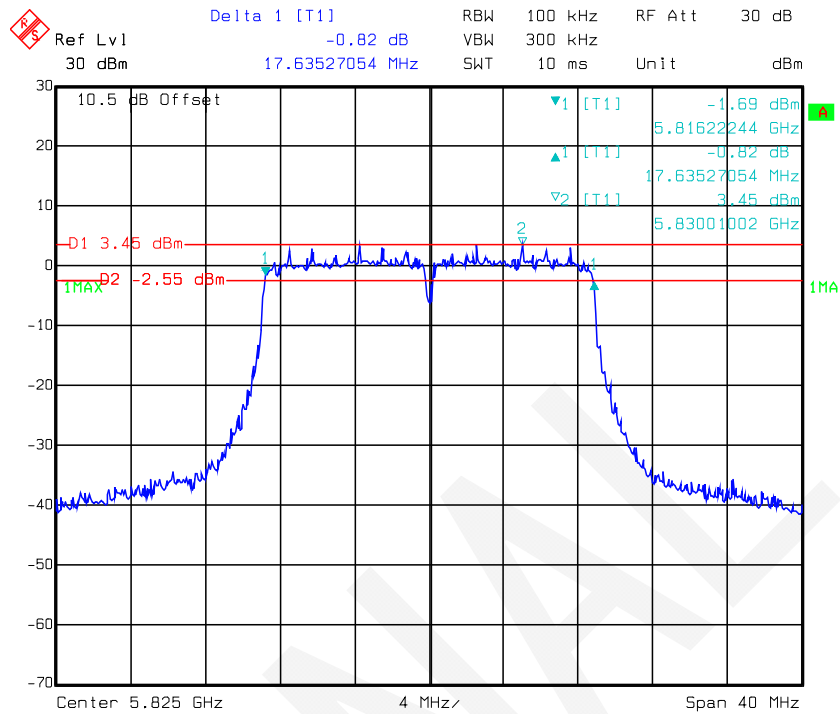
### 802.11n-HT20 mode, 6 dB Bandwidth-5745 MHz, Antenna 0



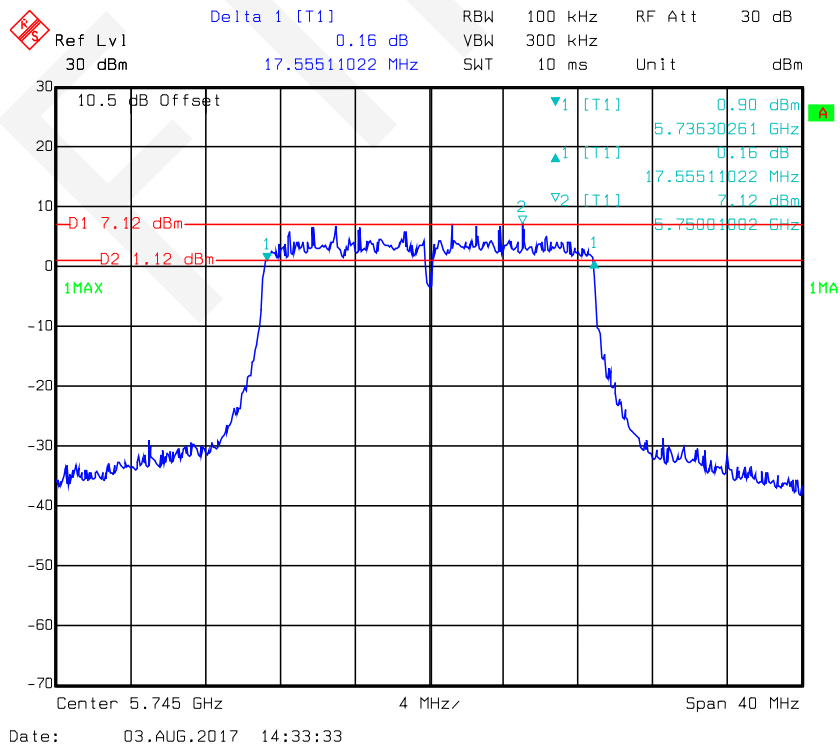
### 802.11n-HT20 mode, 6 dB Bandwidth-5785 MHz, Antenna 0



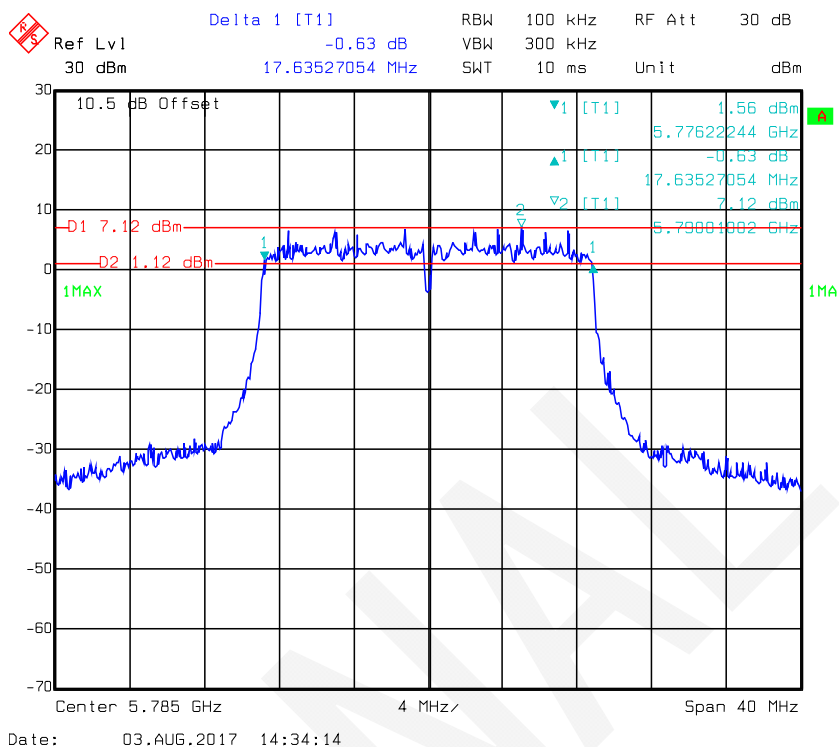
### 802.11n-HT20 mode, 6 dB Bandwidth-5825 MHz, Antenna 0



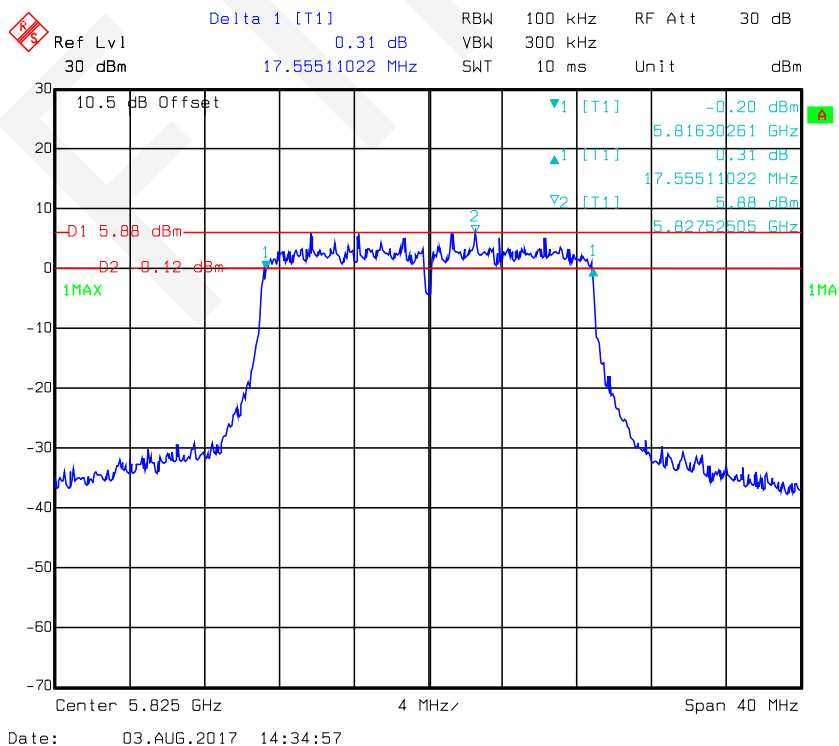
### 802.11n-HT20 mode, 6 dB Bandwidth-5745 MHz, Antenna 1



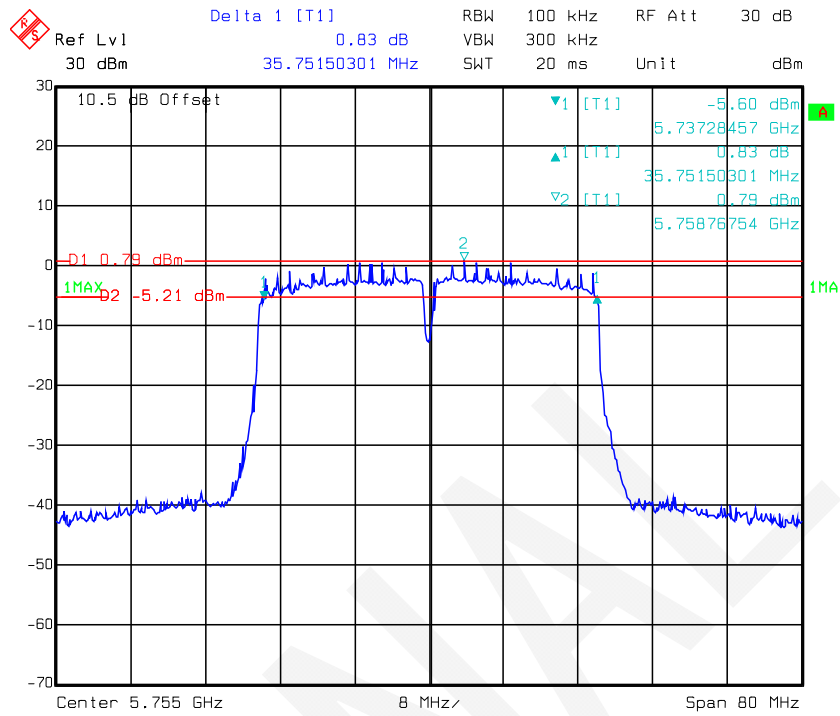
### 802.11n-HT20 mode, 6 dB Bandwidth-5785 MHz, Antenna 1



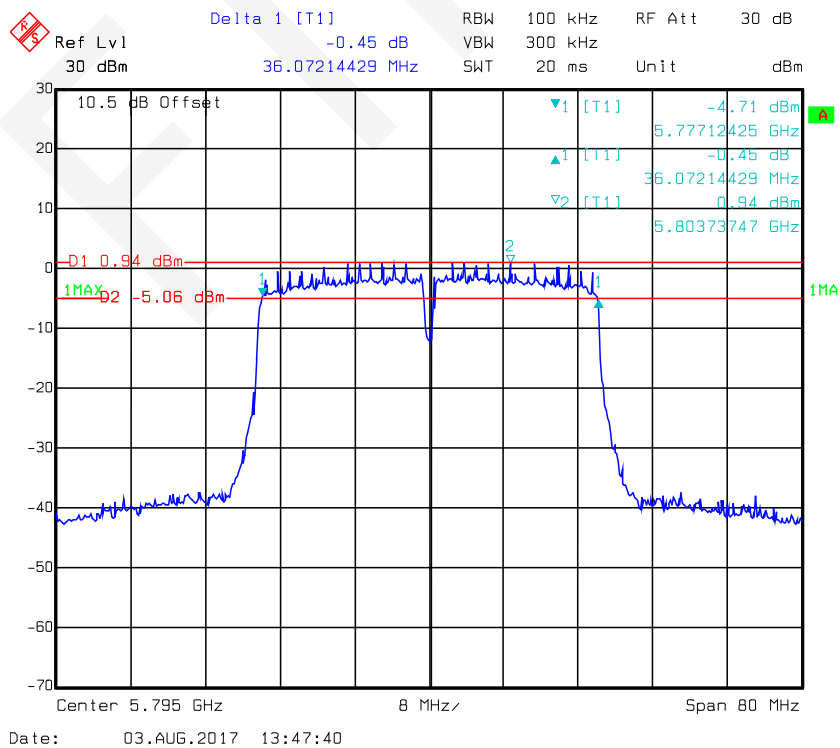
### 802.11n-HT20 mode, 6 dB Bandwidth-5825 MHz, Antenna 1



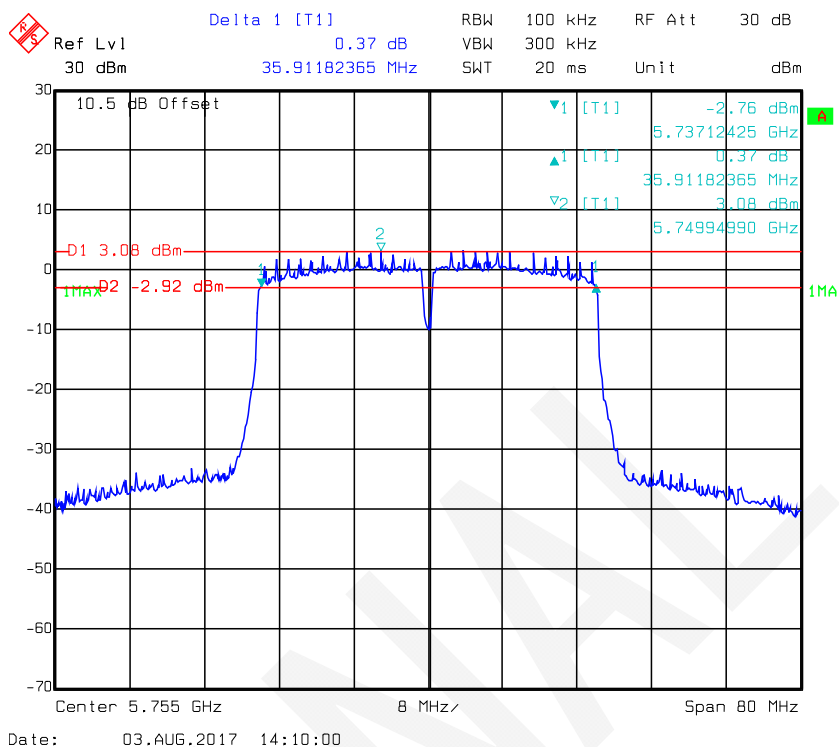
### 802.11n-HT40 mode, 6 dB Bandwidth-5755 MHz, Antenna 0



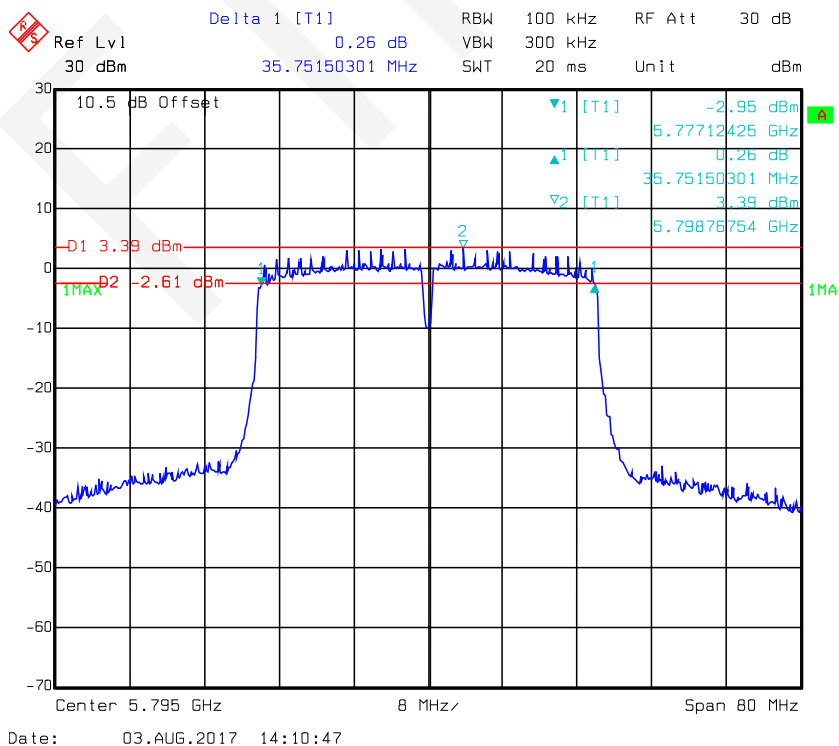
### 802.11n-HT40 mode, 6 dB Bandwidth-5795 MHz, Antenna 0



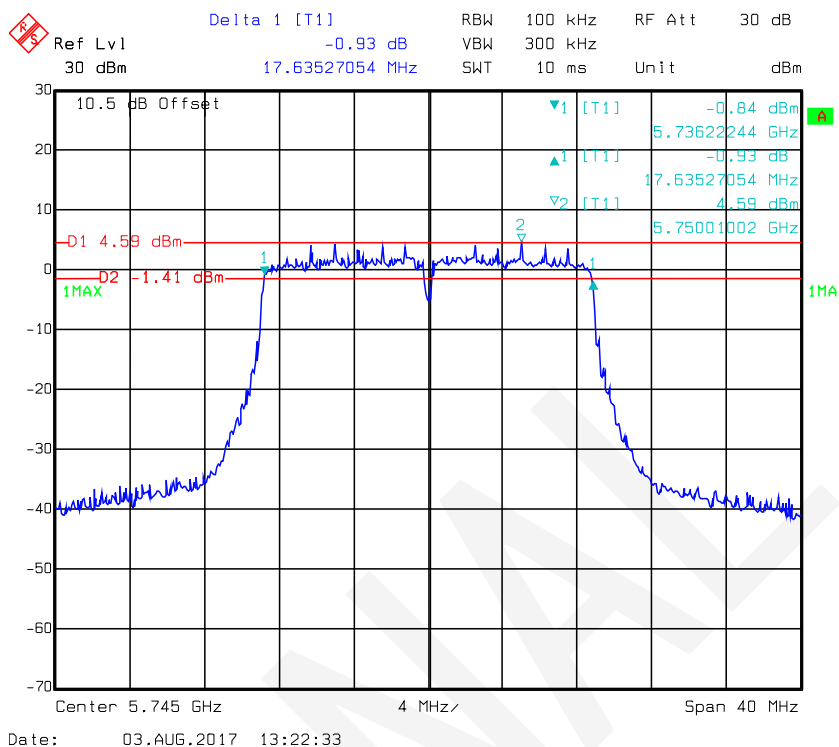
### 802.11n-HT40 mode, 6 dB Bandwidth-5755 MHz, Antenna 1



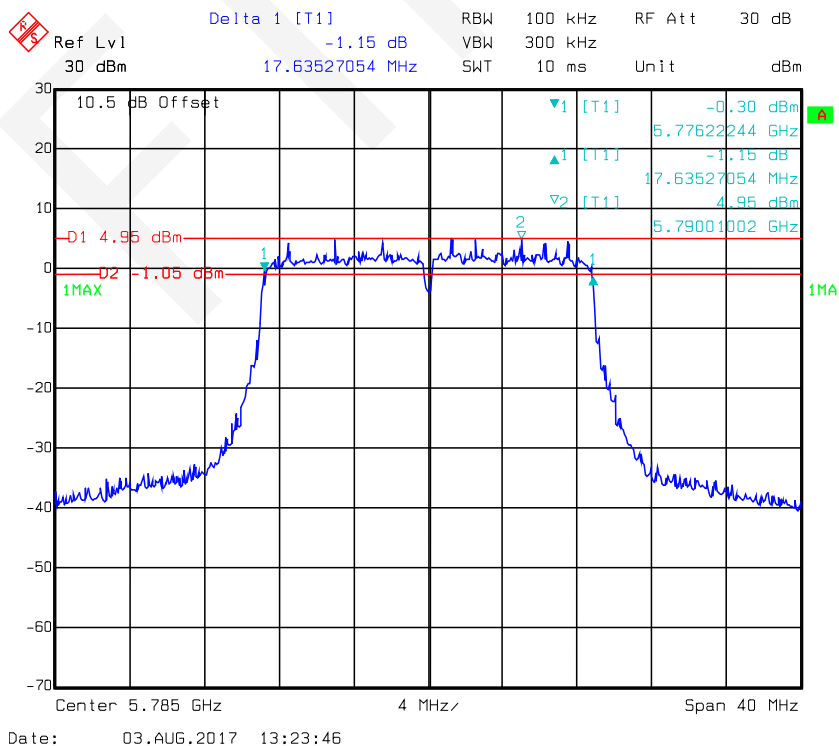
### 802.11n-HT40 mode, 6 dB Bandwidth-5795 MHz, Antenna 1



### 802.11ac20 mode, 6 dB Bandwidth-5745 MHz, Antenna 0

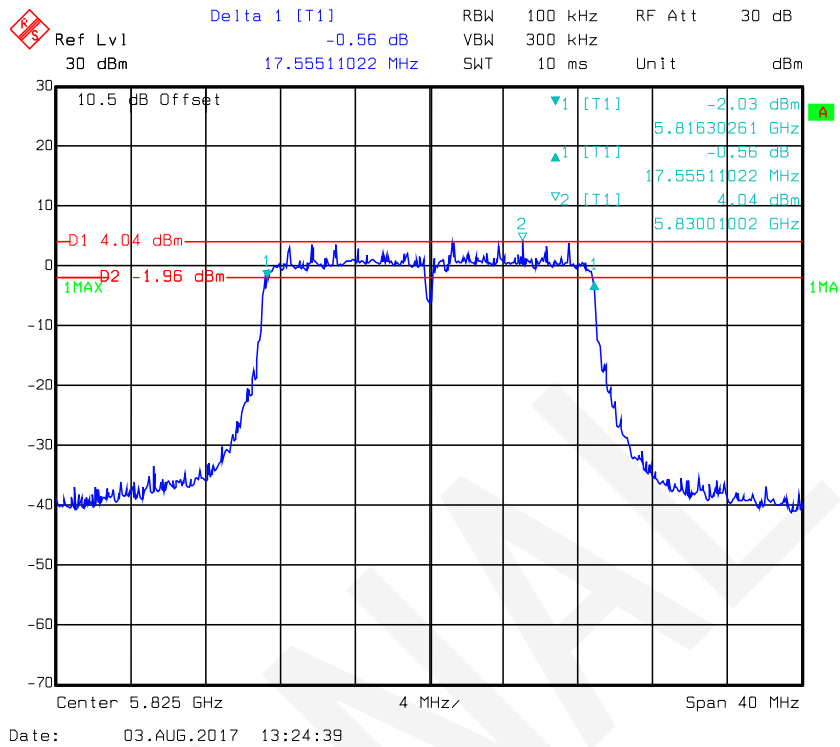


### 802.11ac20 mode, 6 dB Bandwidth-5785 MHz, Antenna 0

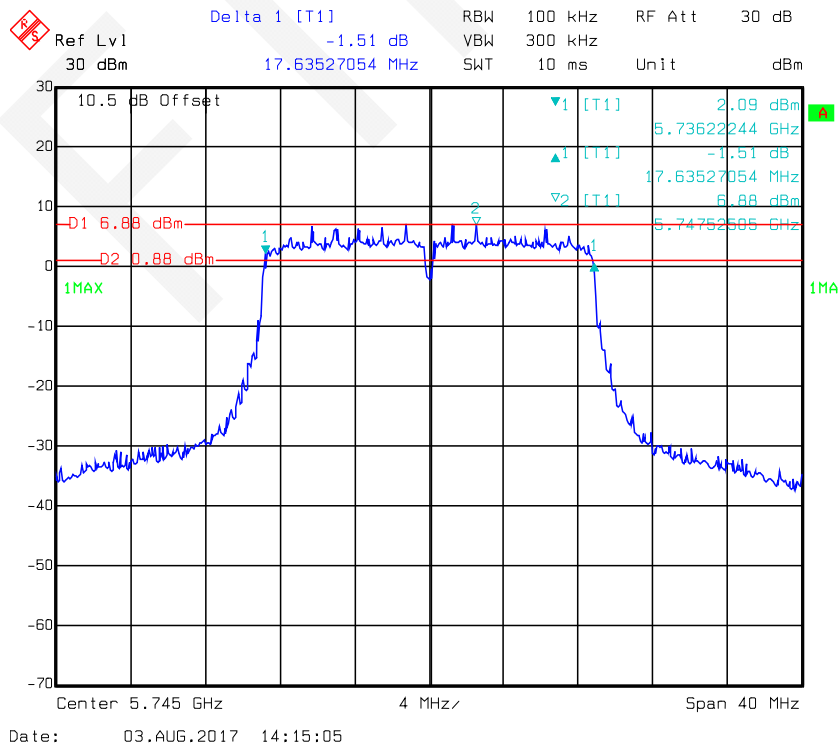




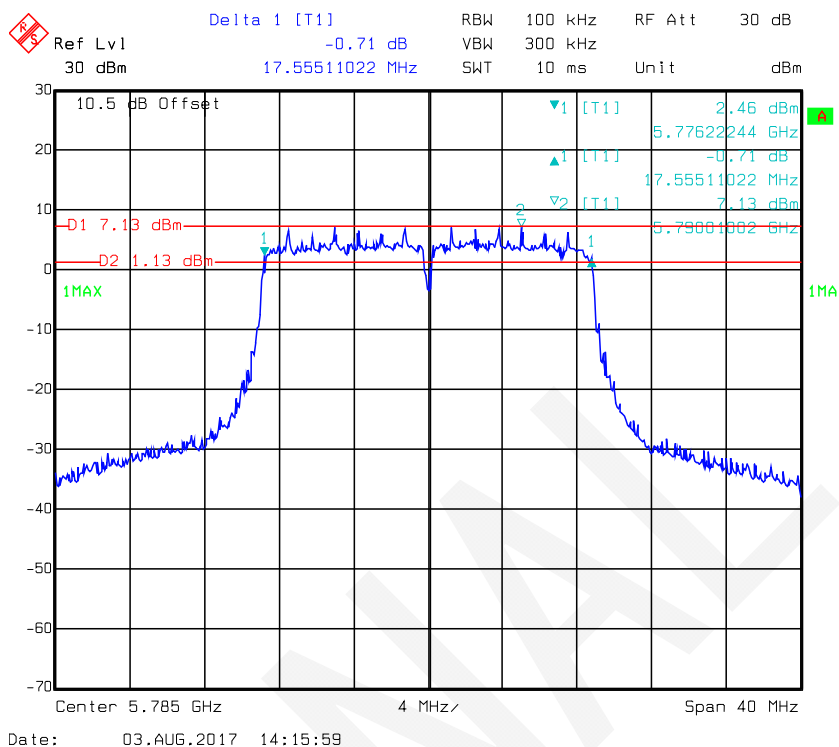
### 802.11ac20 mode, 6 dB Bandwidth-5825 MHz, Antenna 0



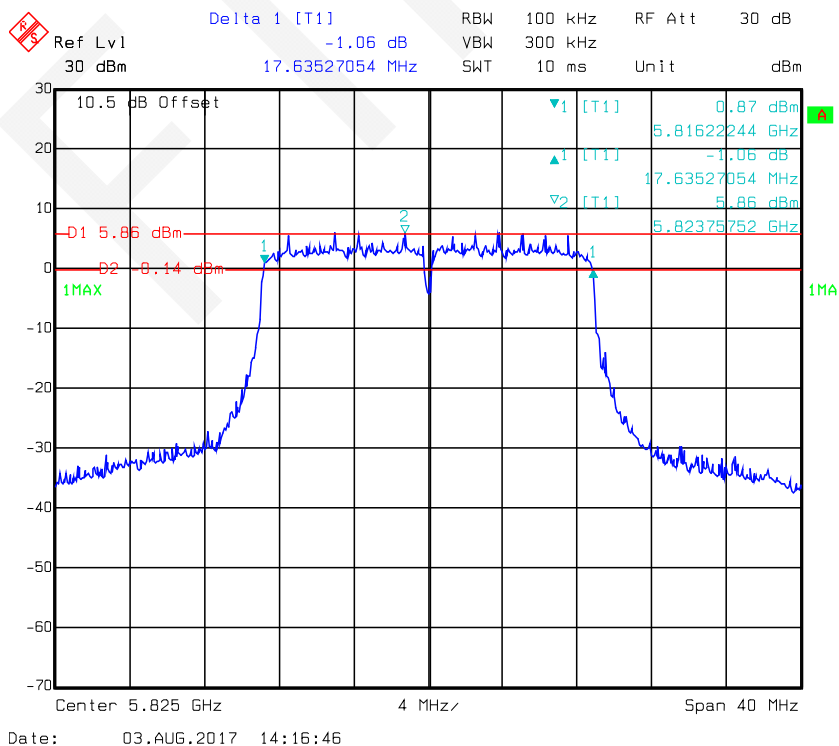
### 802.11ac20 mode, 6 dB Bandwidth-5745 MHz, Antenna 1



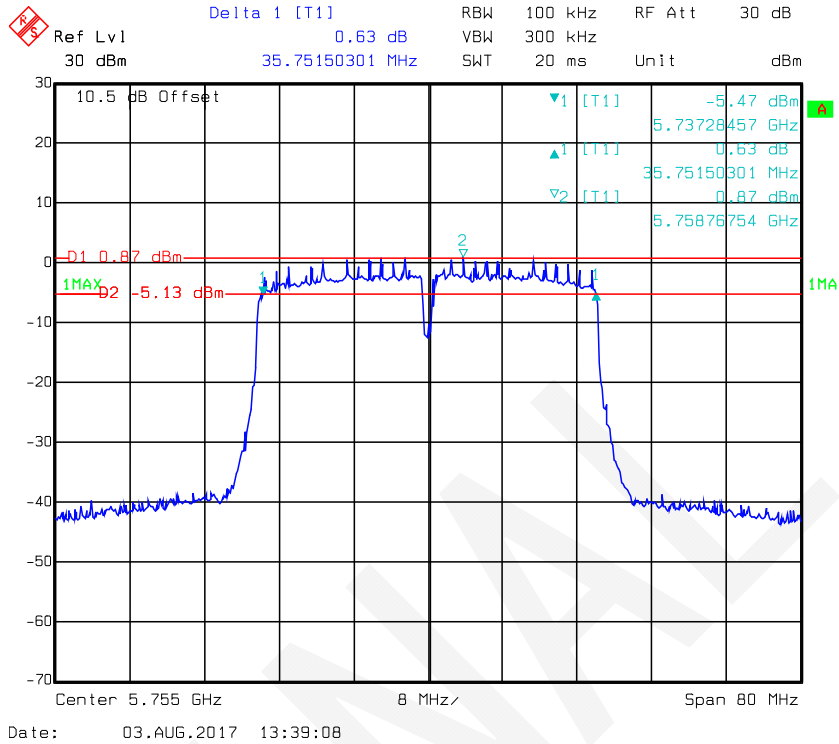
### 802.11ac20 mode, 6 dB Bandwidth-5785 MHz, Antenna 1



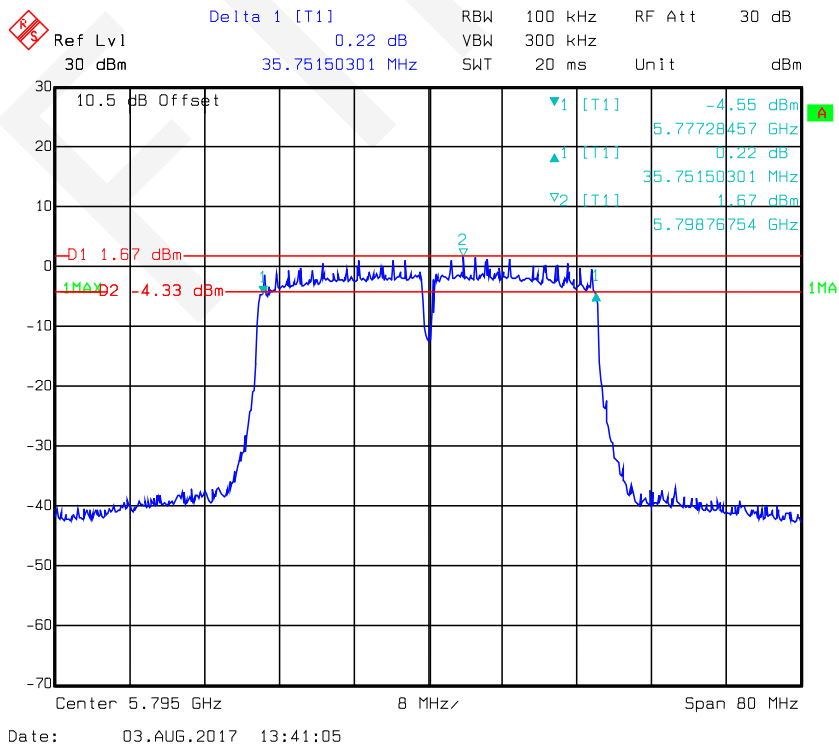
### 802.11ac20 mode, 6 dB Bandwidth-5825 MHz, Antenna 1



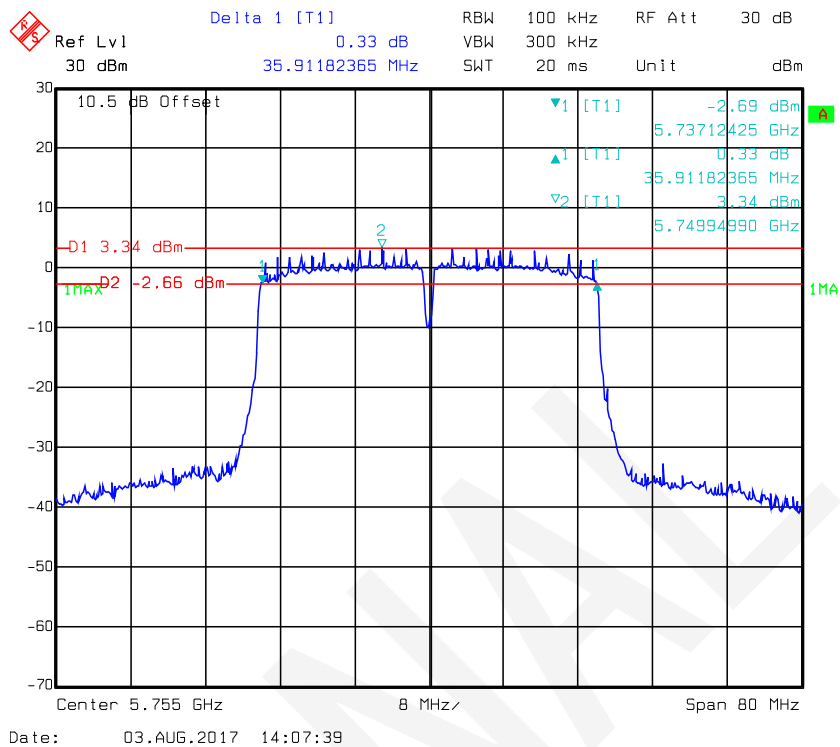
### 802.11ac40 mode, 6 dB Bandwidth-5755 MHz, Antenna 0



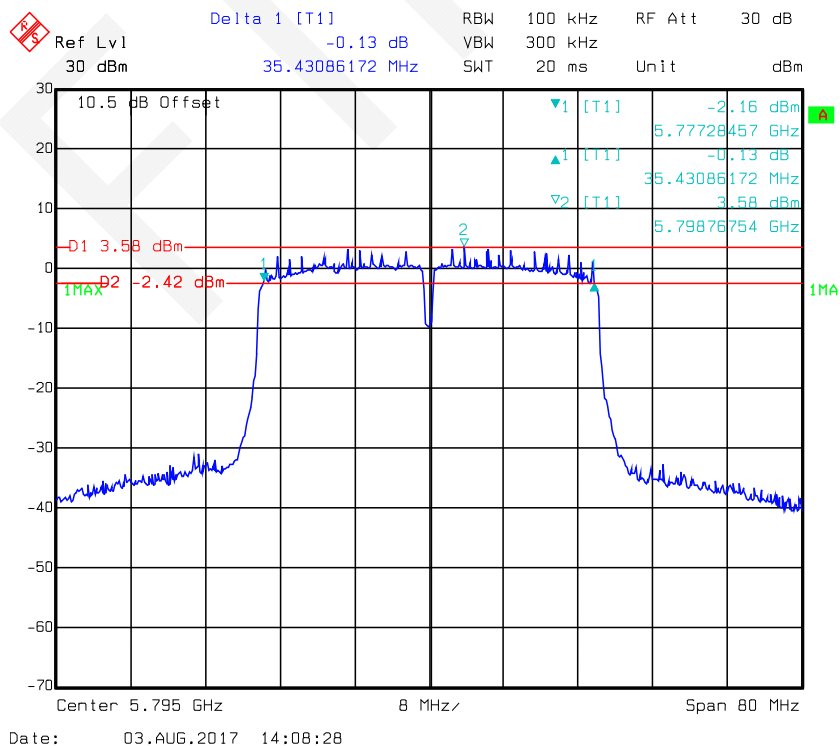
### 802.11ac40 mode, 6 dB Bandwidth-5795 MHz, Antenna 0



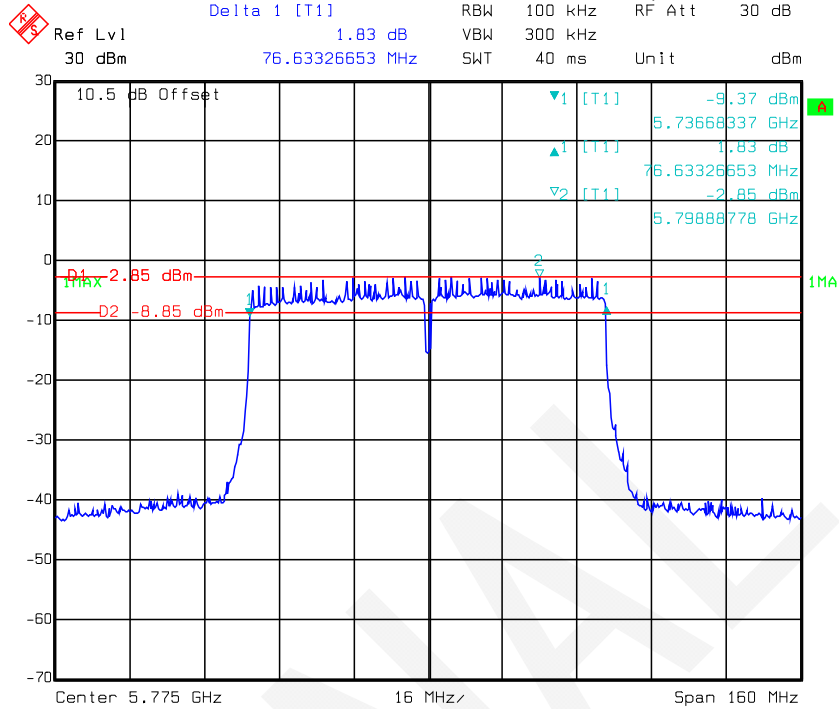
### 802.11ac40 mode, 6 dB Bandwidth-5755 MHz, Antenna 1



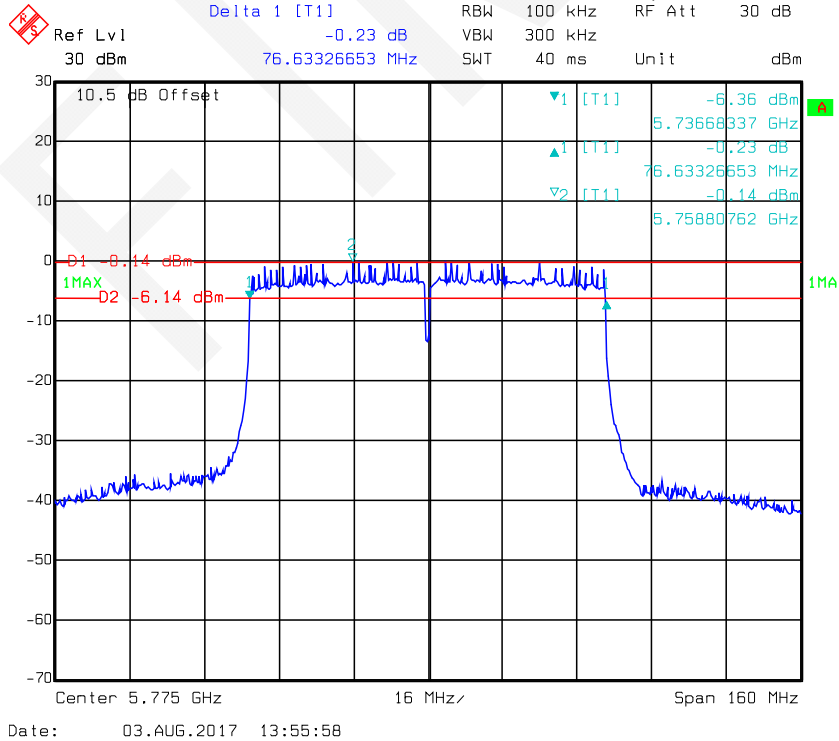
802.11ac40 mode, 6 dB Bandwidth-5795 MHz, Antenna 1



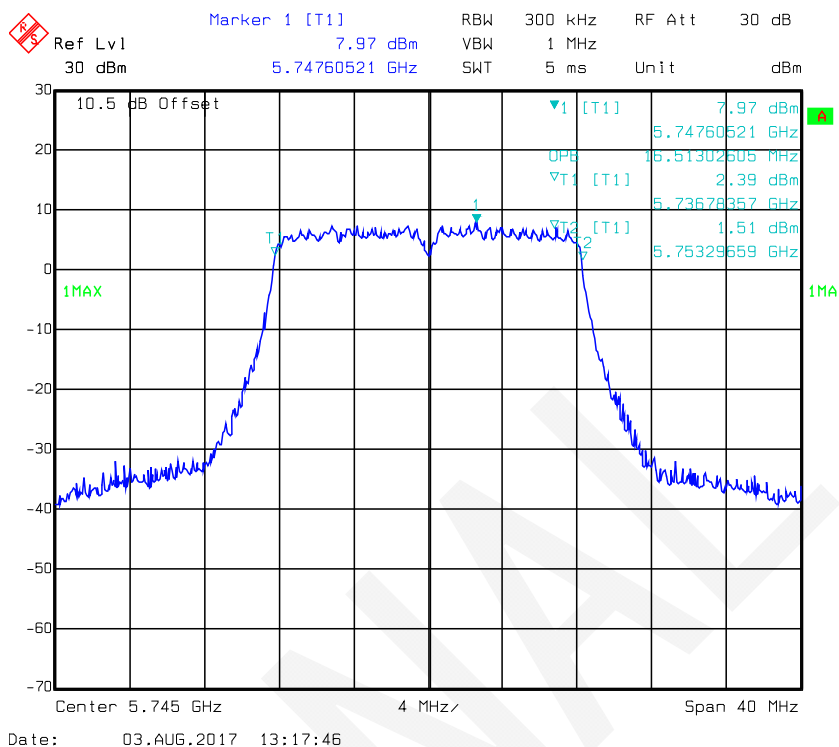
### 802.11ac80 mode, 6 dB Bandwidth-5775 MHz, Antenna 0



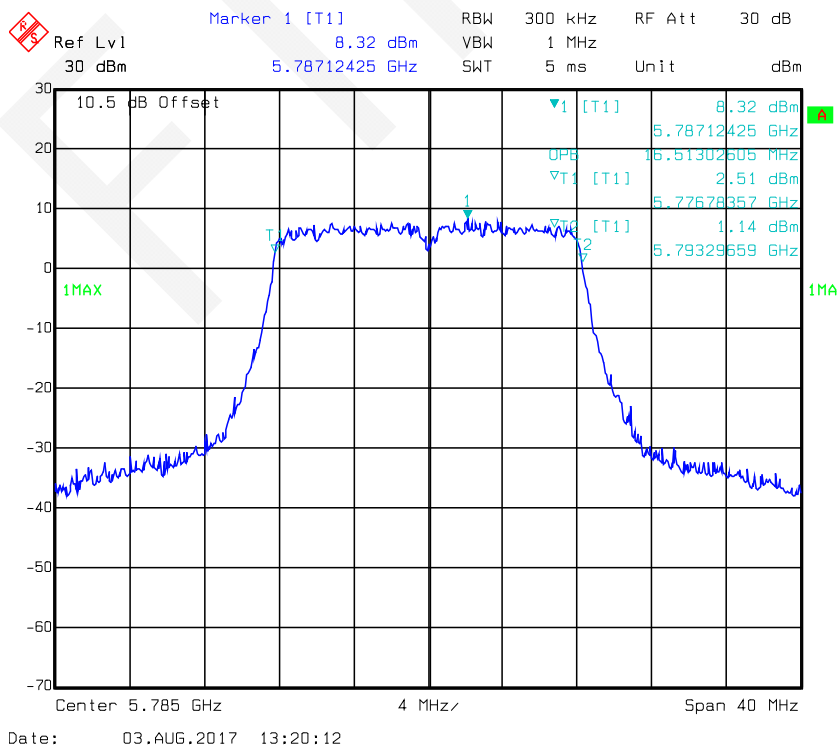
### 802.11ac80 mode, 6 dB Bandwidth-5775 MHz, Antenna 1



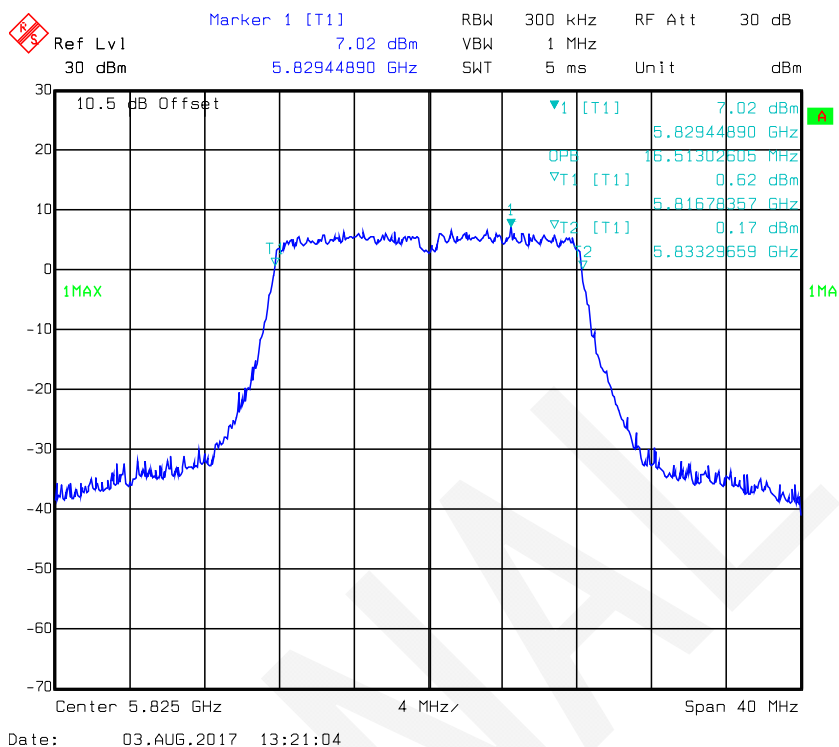
### 802.11a mode, 99% Occupied Bandwidth-5745 MHz, Antenna 0



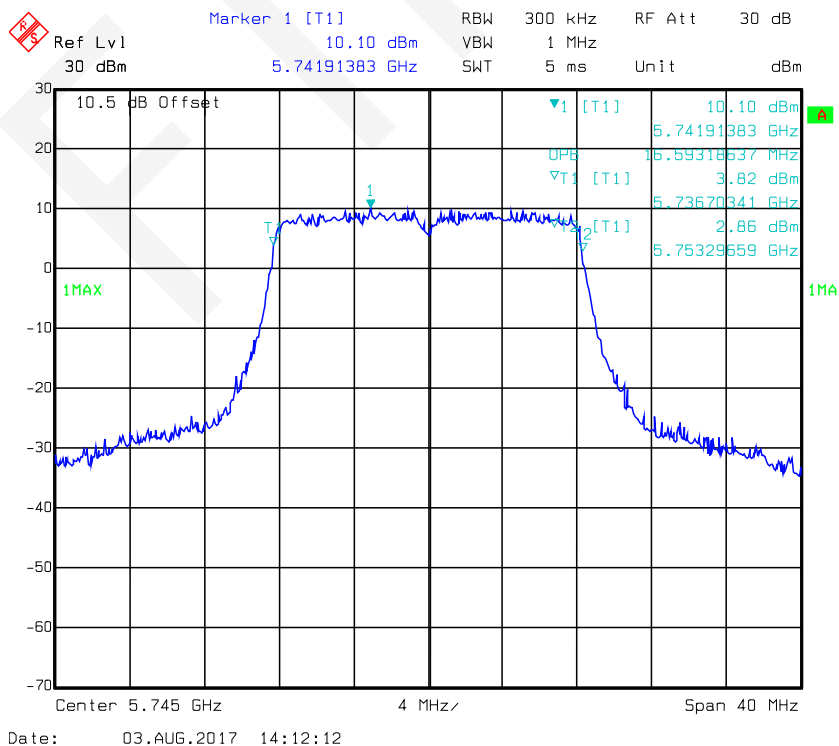
### 802.11a mode, 99% Occupied Bandwidth -5785 MHz, Antenna 0



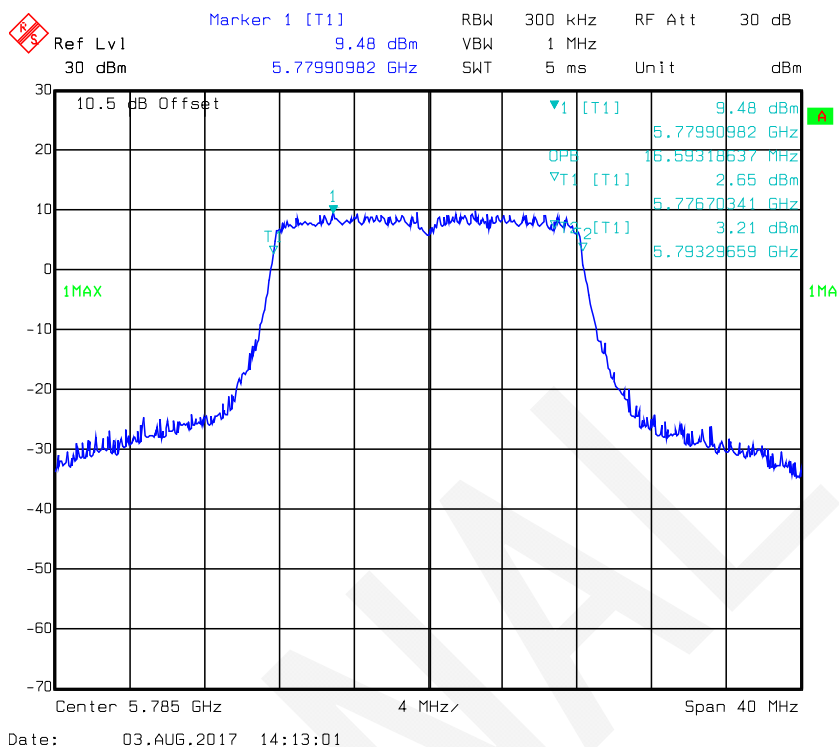
### 802.11a mode, 99% Occupied Bandwidth -5825 MHz, Antenna 0



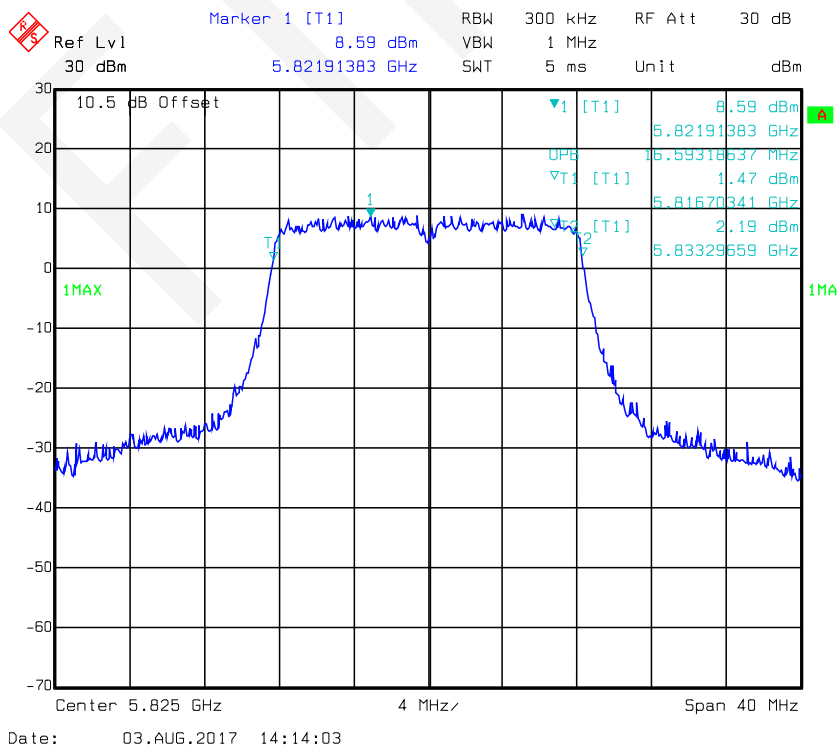
### 802.11a mode, 99% Occupied Bandwidth-5745 MHz, Antenna 1



### 802.11a mode, 99% Occupied Bandwidth -5785 MHz, Antenna 1

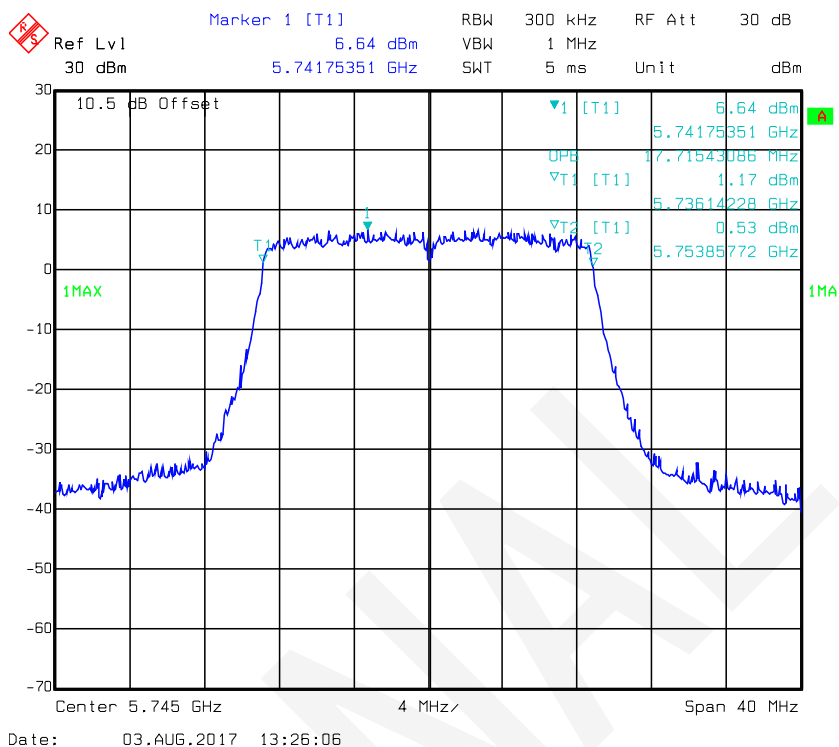


### 802.11a mode, 99% Occupied Bandwidth -5825 MHz, Antenna 1

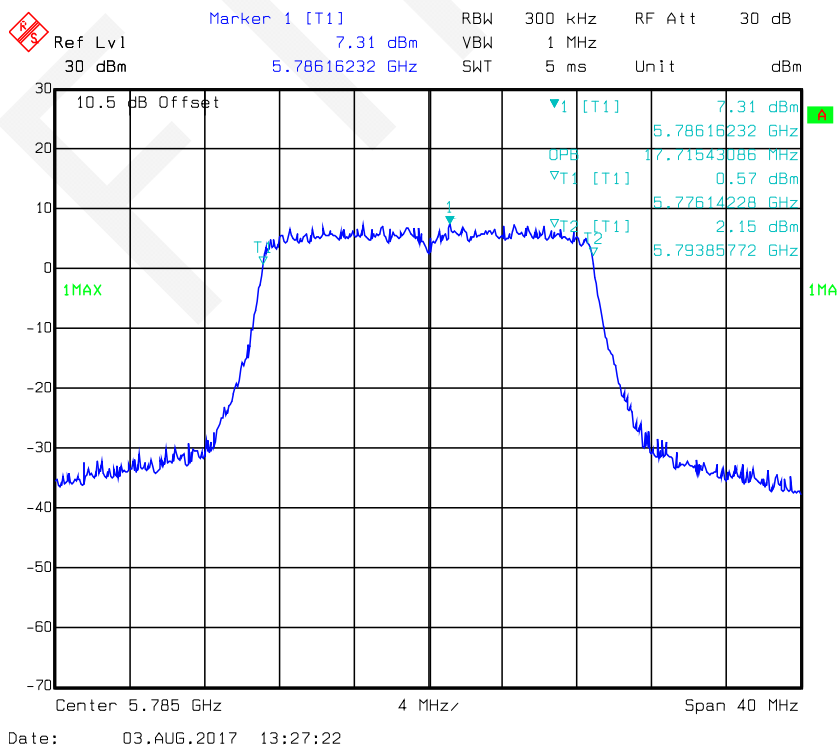




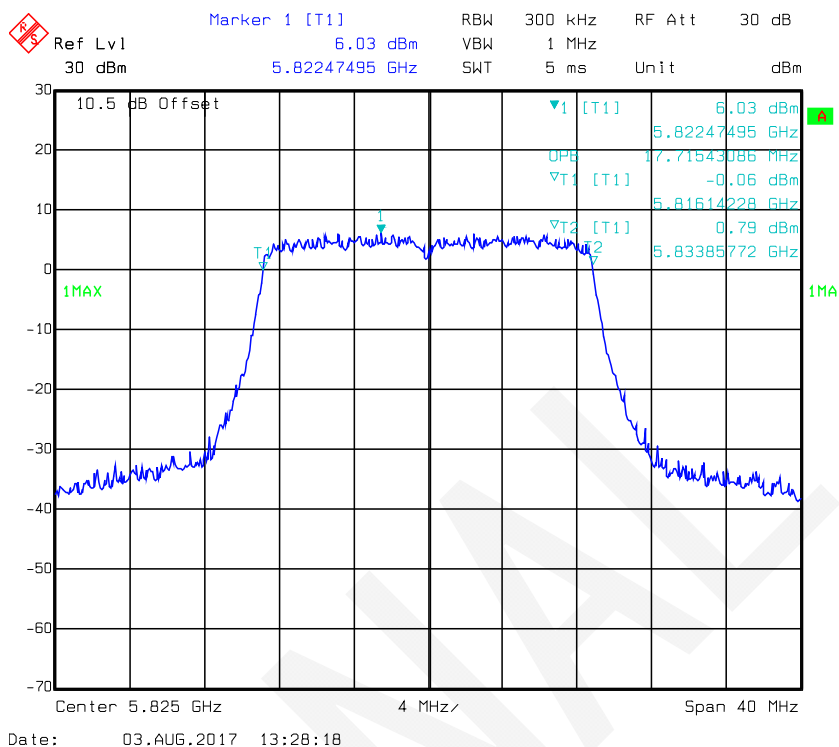
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 0



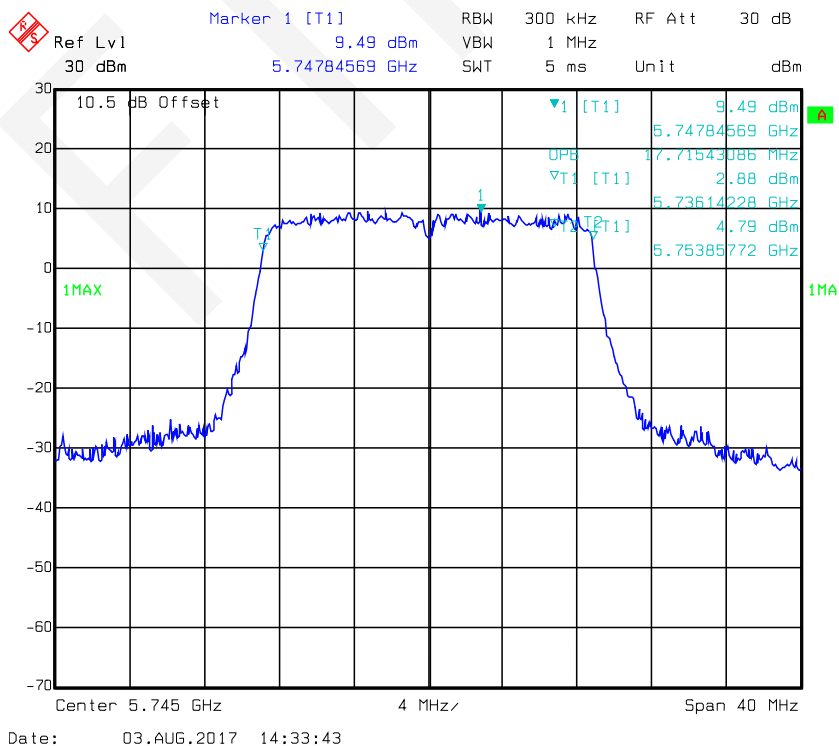
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 0



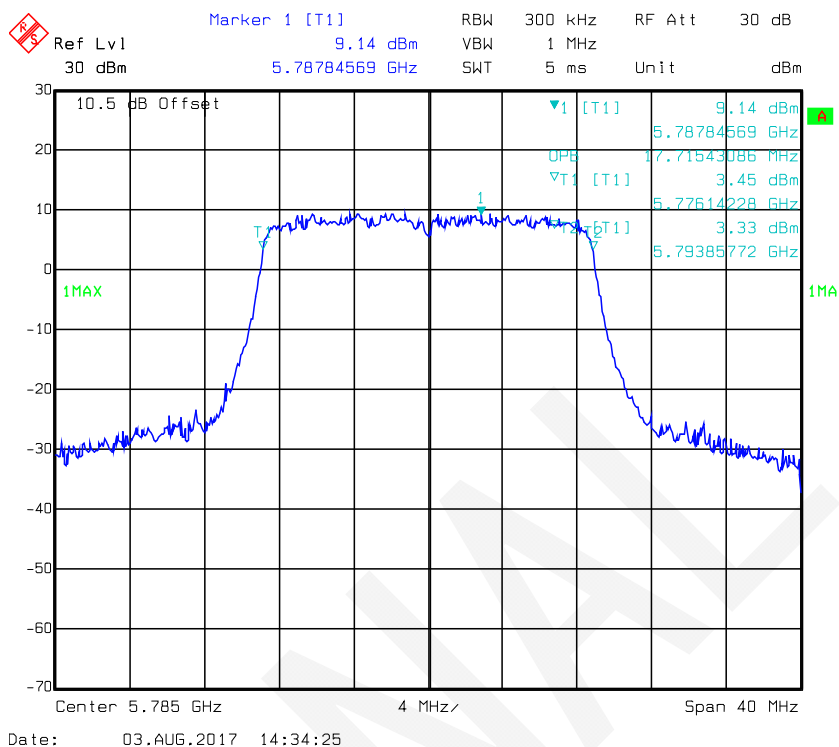
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 0



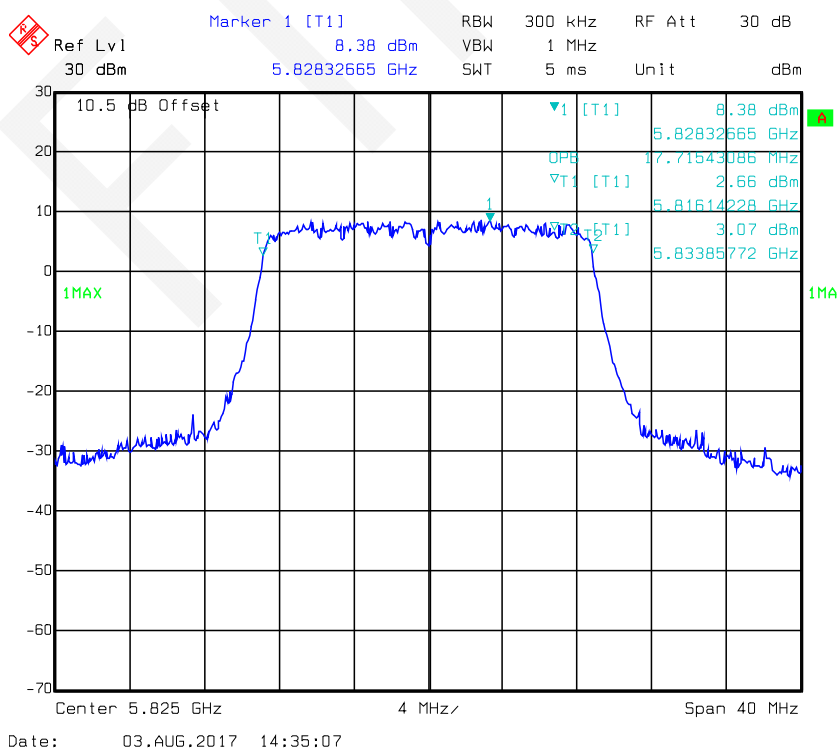
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 1



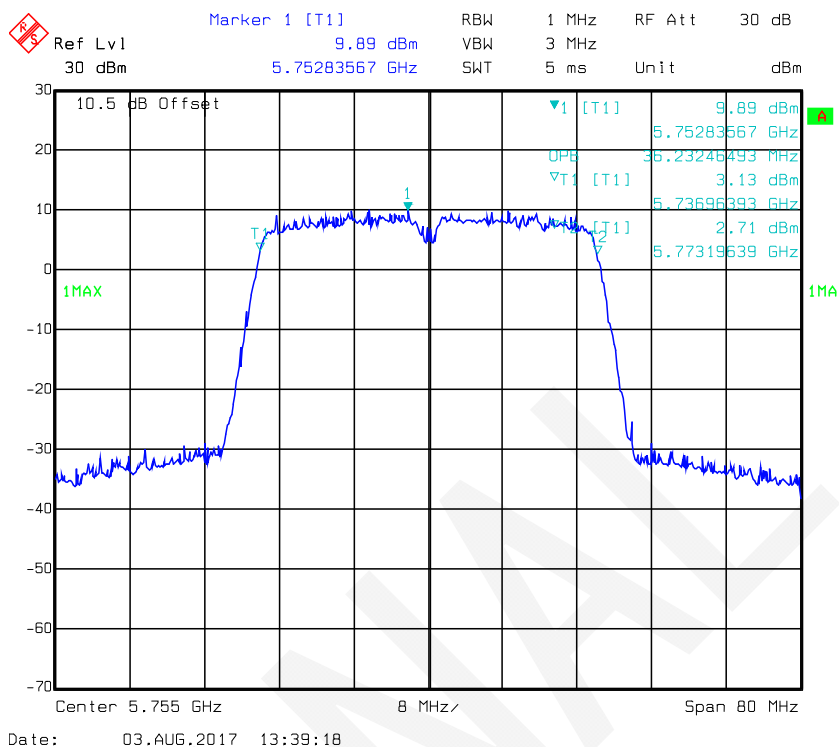
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 1



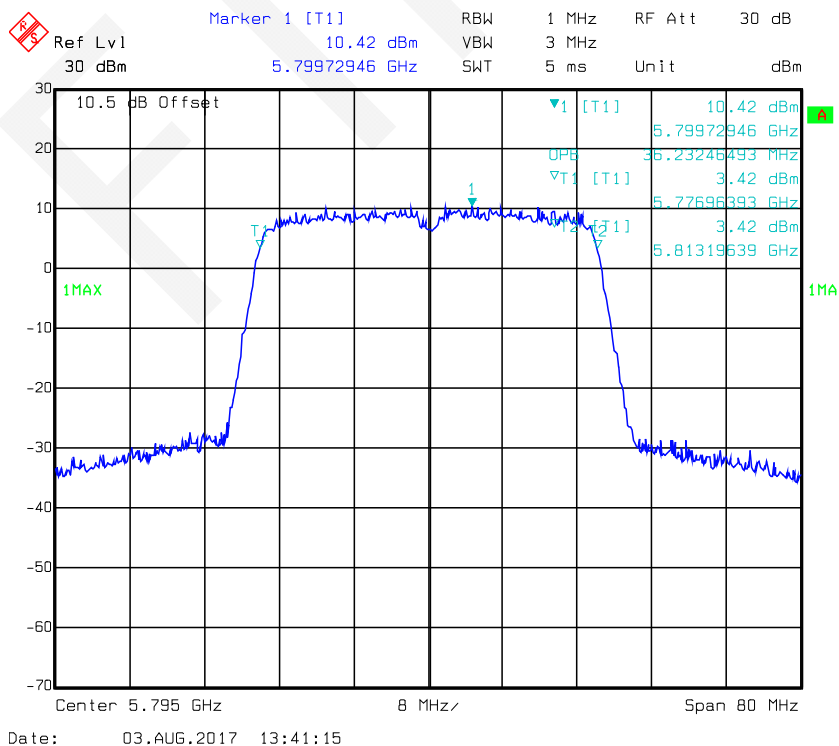
### 802.11n-HT20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 1



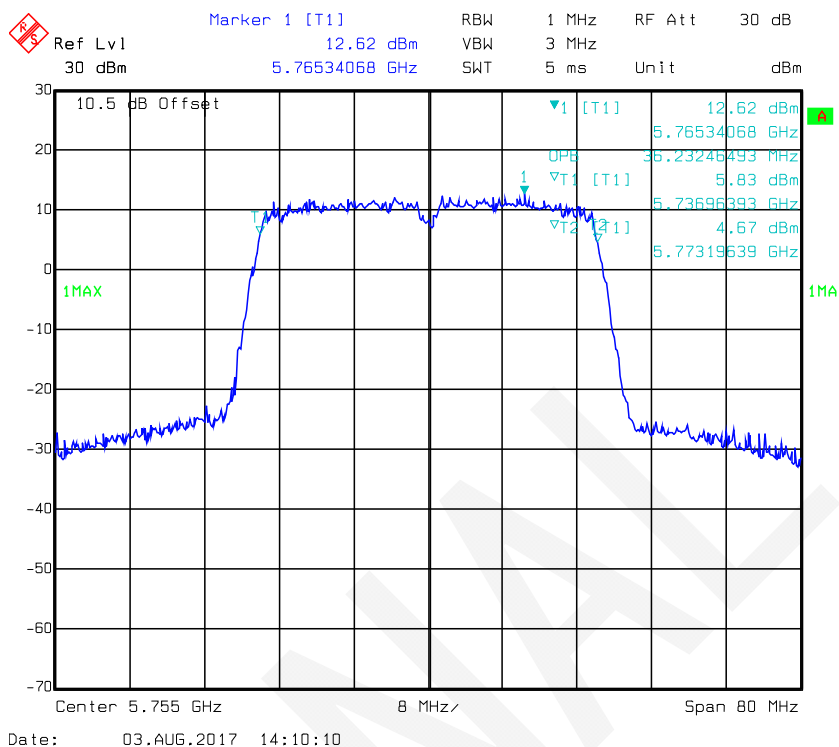
### 802.11n-HT40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 0



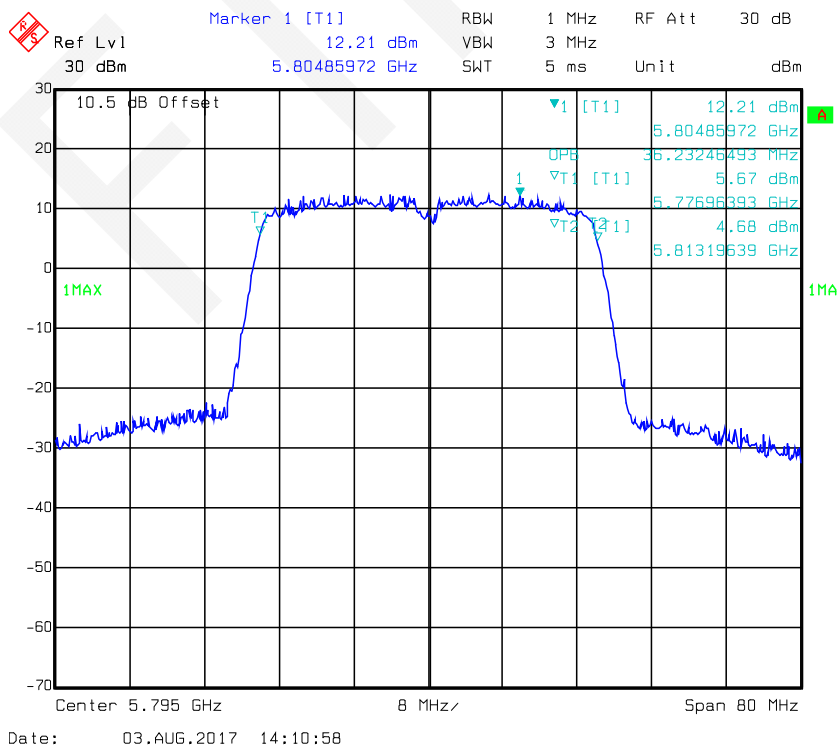
### 802.11n-HT40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 0



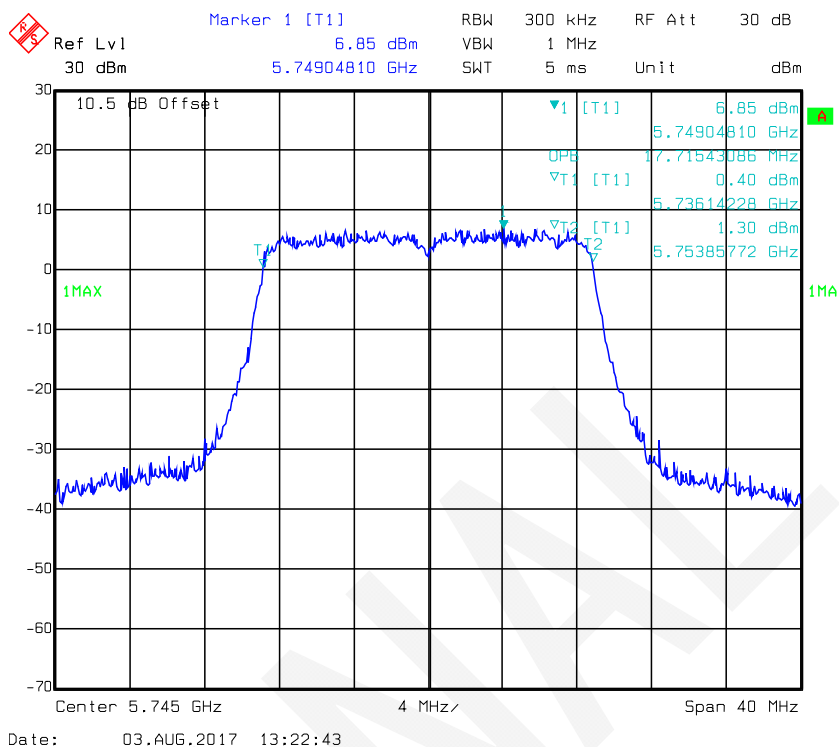
### 802.11n-HT40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 1



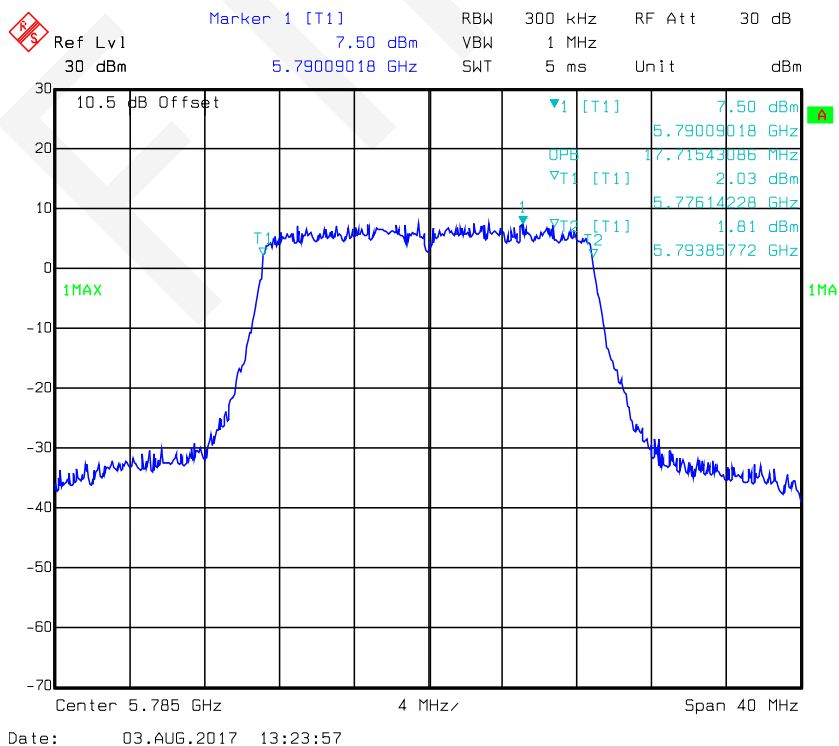
### 802.11n-HT40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 1



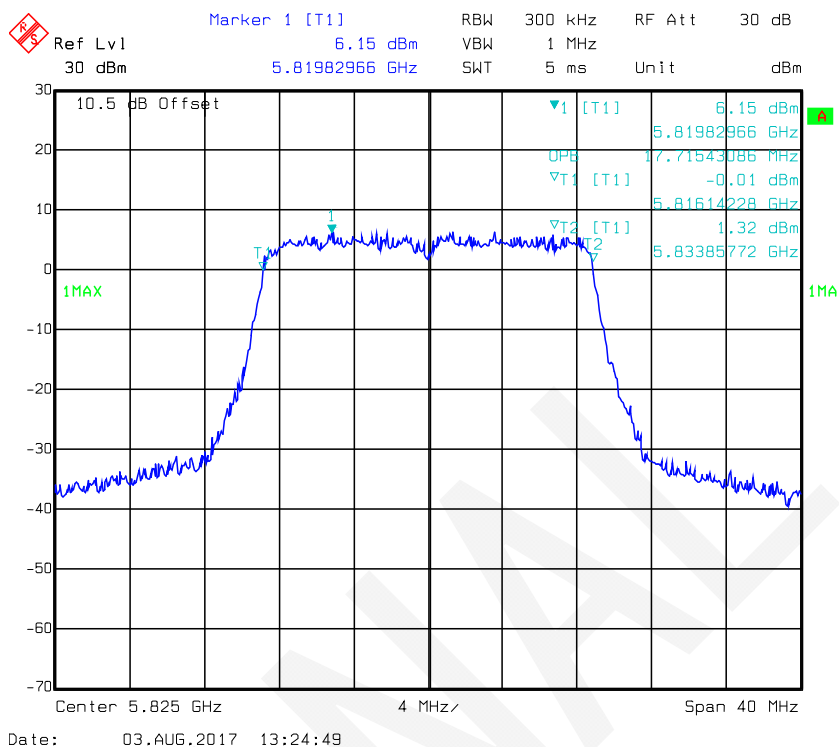
### 802.11ac20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 0



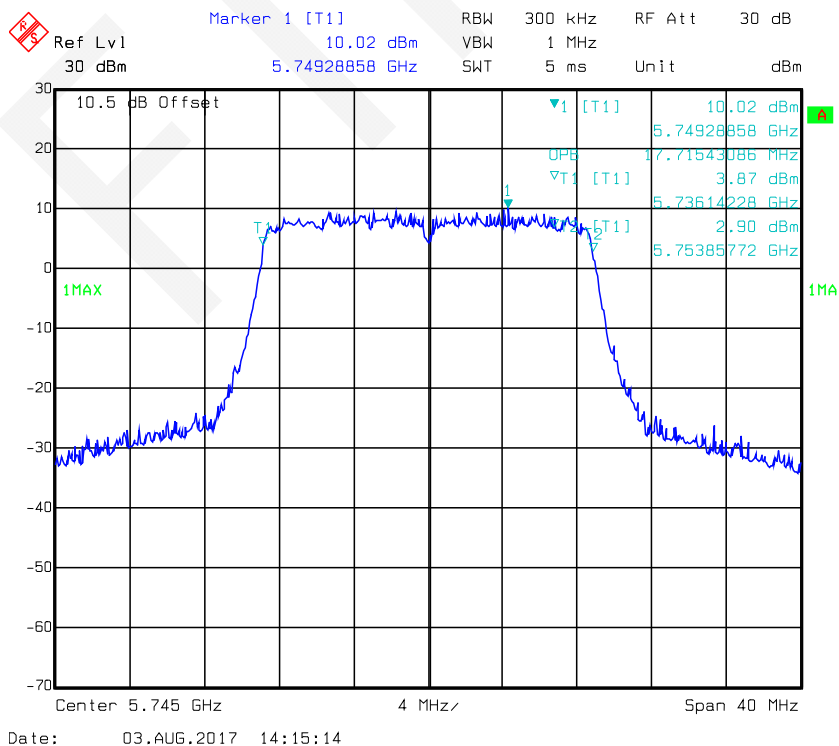
### 802.11ac20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 0



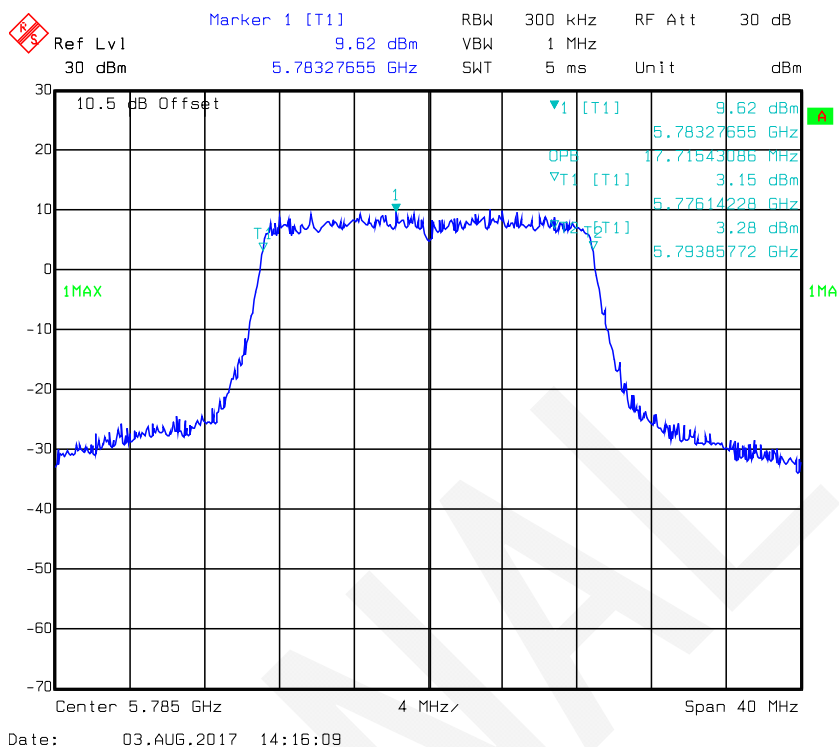
### 802.11ac20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 0



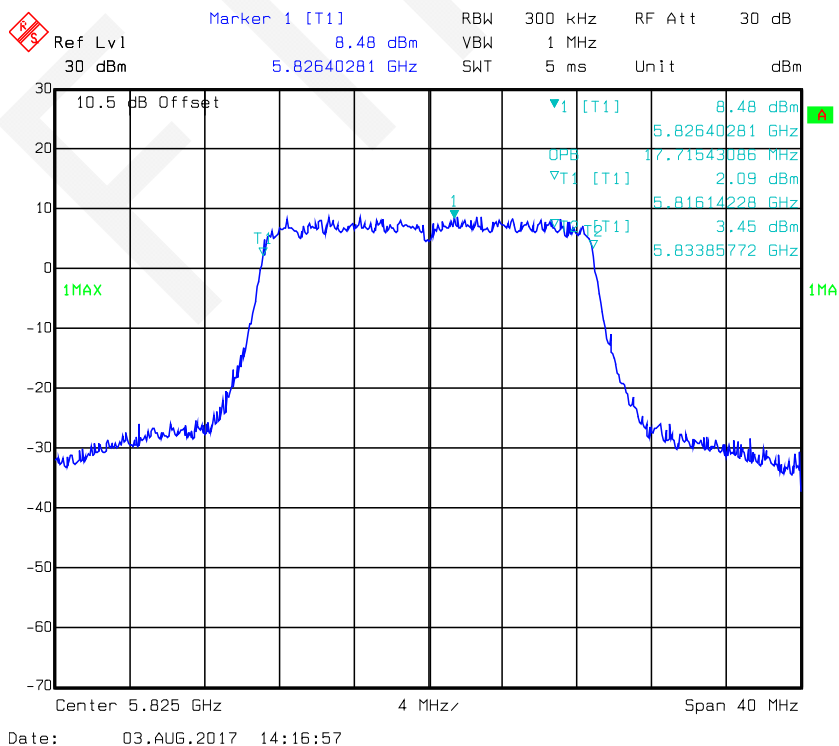
### 802.11ac20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 1



### 802.11ac20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 1

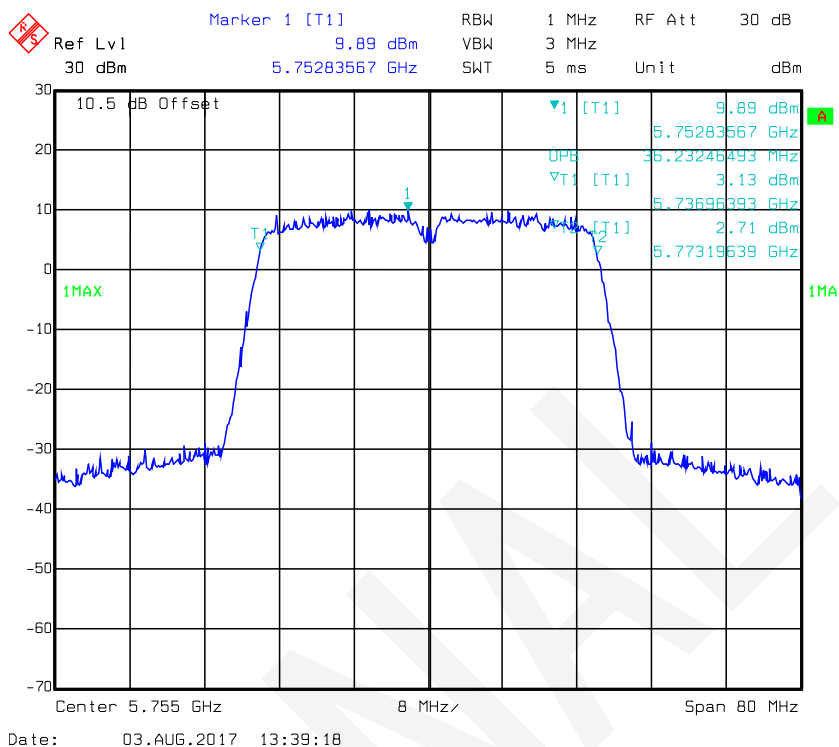


### 802.11ac20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 1

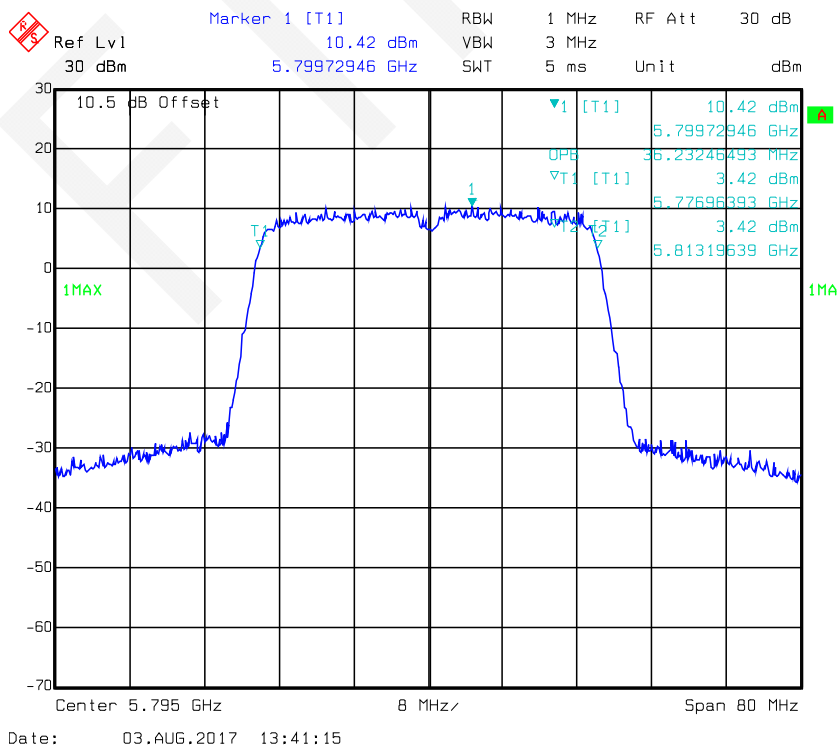




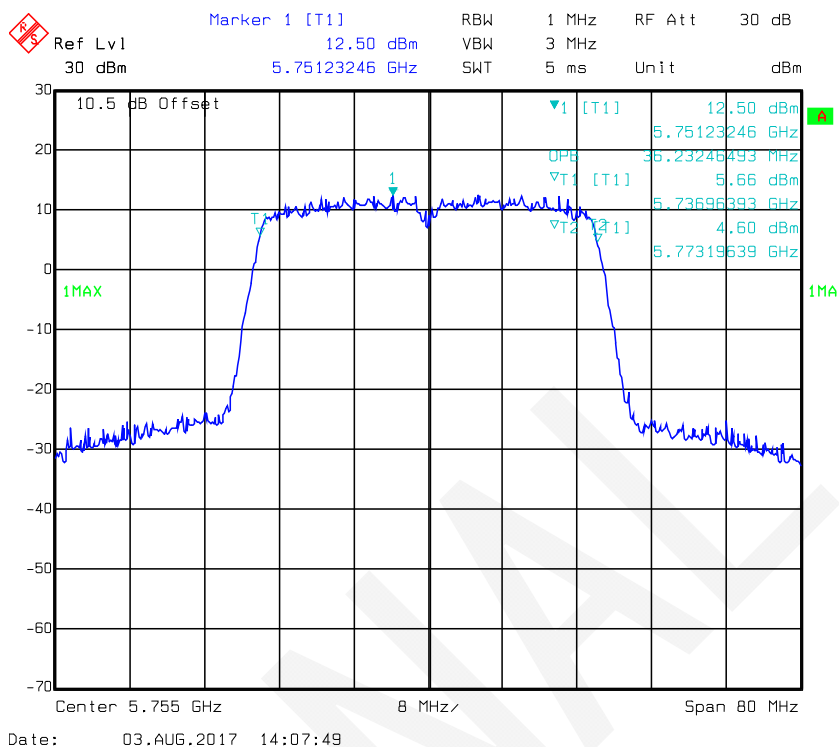
### 802.11ac40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 0



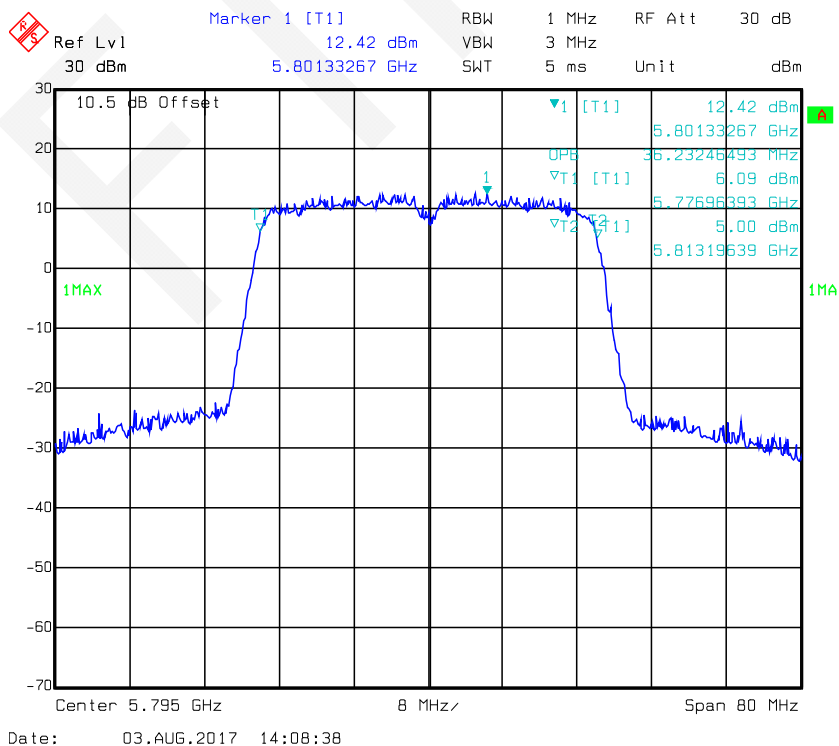
### 802.11ac40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 0

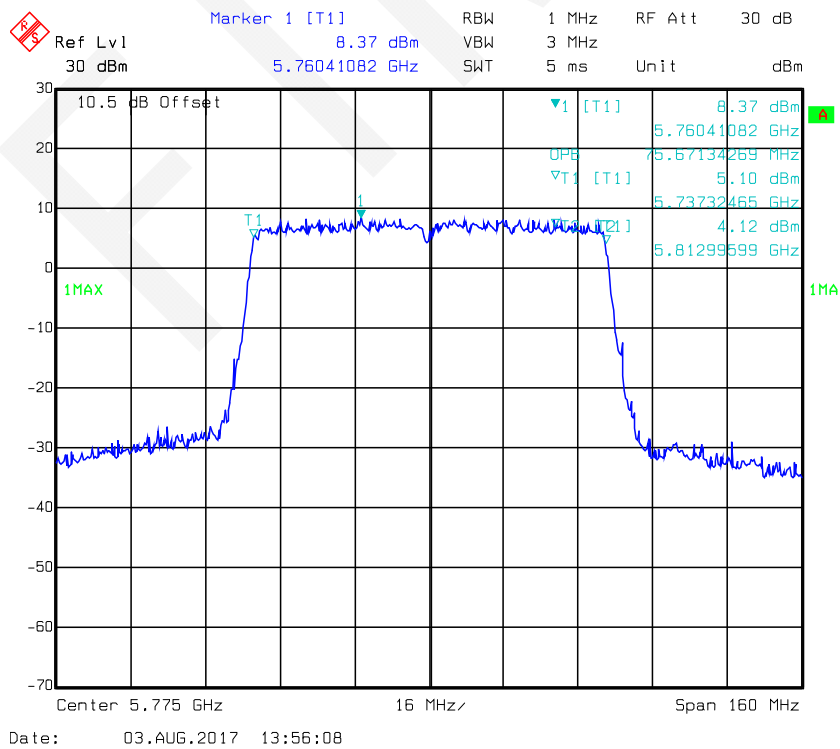
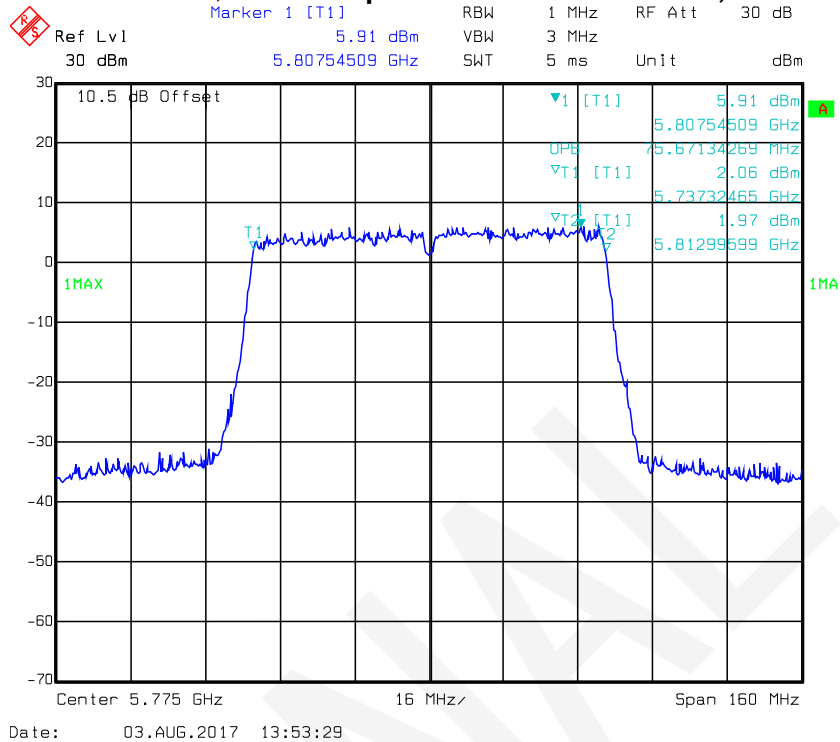


### 802.11ac40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 1



### 802.11ac40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 1





## FCC §15.407(g) – FREQUENCY STABILITY

### Applicable Standard

FCC §15.407(g)

(g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### Test Procedure

According to ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

### Test Data

#### Environmental Conditions

Temperature:	29 ~ 30 °C
Relative Humidity:	50 ~54 %
ATM Pressure:	94.5 ~ 94.8 kPa

\* The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.

Test Mode: Transmitting (Worst case)

Test Result: Pass

### For 5150-5250 MHz:

802.11a				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5171.7826	5248.2942	FL and FH Within 5150~5250MHz range
10		5171.7833	5248.2961	
20		5171.7836	5248.2966	
30		5171.7849	5248.2979	
40		5171.7851	5248.2985	
25	102	5171.7854	5248.2991	
25	138	5171.7864	5248.3001	

802.11n-HT20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5171.1431	5248.8566	FL and FH Within 5150~5250MHz range
10		5171.1444	5248.8572	
20		5171.1442	5248.8577	
30		5171.1455	5248.8588	
40		5171.1470	5248.8593	
25	102	5171.1470	5248.8605	
25	138	5171.1477	5248.8609	

802.11n40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5171.9625	5248.0333	FL and FH Within 5150~5250MHz range
10		5171.9634	5248.0339	
20		5171.9639	5248.0361	
30		5171.9639	5248.0363	
40		5171.9640	5248.0375	
25	102	5171.9641	5248.0381	
25	138	5171.9643	5248.0386	

802.11ac20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5171.1416	5248.8556	FL and FH Within 5150~5250MHz range
10		5171.1432	5248.8559	
20		5171.1423	5248.8577	
30		5171.1437	5248.8584	
40		5171.1441	5248.8597	
25	102	5171.1453	5248.8607	
25	138	5171.1463	5248.8617	

802.11ac40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5171.9634	5248.0334	FL and FH Within 5150~5250MHz range
10		5171.9626	5248.0342	
20		5171.9639	5248.0361	
30		5171.9641	5248.0365	
40		5171.9650	5248.0370	
25	102	5171.9652	5248.0383	
25	138	5171.9654	5248.0383	

802.11ac80				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5172.0026	5247.9942	FL and FH Within 5150~5250MHz range
10		5172.0026	5247.9948	
20		5172.0040	5247.9960	
30		5172.0041	5247.9960	
40		5172.0049	5247.9970	
25	102	5172.0060	5247.9984	
25	138	5172.0071	5247.9992	

**For 5250-5350 MHz:**

802.11a				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5251.7032	5328.2949	FL and FH Within 5250~5350MHz range
10		5251.7019	5328.2953	
20		5251.7034	5328.2966	
30		5251.7036	5328.2973	
40		5251.7038	5328.2979	
25	102	5251.7048	5328.2989	
25	138	5251.7060	5328.3002	

802.11n-HT20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5251.1421	5328.8576	FL and FH Within 5250~5350MHz range
10		5251.1420	5328.8567	
20		5251.1423	5328.8577	
30		5251.1435	5328.8578	
40		5251.1439	5328.8584	
25	102	5251.1440	5328.8597	
25	138	5251.1451	5328.8597	

802.11n40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5251.9638	5328.0358	FL and FH Within 5250~5350MHz range
10		5251.9623	5328.0352	
20		5251.9639	5328.0361	
30		5251.9642	5328.0366	
40		5251.9644	5328.0379	
25	102	5251.9655	5328.0389	
25	138	5251.9668	5328.0391	

802.11ac20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5251.1417	5328.8565	FL and FH Within 5250~5350MHz range
10		5251.1407	5328.8566	
20		5251.1423	5328.8577	
30		5251.1426	5328.8587	
40		5251.1427	5328.8598	
25	102	5251.1437	5328.8601	
25	138	5251.1437	5328.8605	

802.11ac40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5251.9621	5328.0347	FL and FH Within 5250~5350MHz range
10		5251.9644	5328.0349	
20		5251.9639	5328.0361	
30		5251.9646	5328.0375	
40		5251.9659	5328.0376	
25	102	5251.9663	5328.0388	
25	138	5251.9669	5328.0398	

802.11ac80				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5252.0037	5327.9955	FL and FH Within 5250~5350MHz range
10		5252.0033	5327.9953	
20		5252.0040	5327.9960	
30		5252.0042	5327.9963	
40		5252.0052	5327.9970	
25	102	5252.0057	5327.9983	
25	138	5252.0059	5327.9990	

**For 5470-5725 MHz:**

802.11a				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5491.7021	5708.2945	FL and FH Within 5470~5725MHz range
10		5491.7036	5708.2946	
20		5491.7034	5708.2966	
30		5491.7045	5708.2975	
40		5491.7057	5708.2981	
25	102	5491.7064	5708.2989	
25	138	5491.7071	5708.3001	



802.11n-HT20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5491.7021	5708.2951	FL and FH Within 5470~5725MHz range
10		5491.7031	5708.2959	
20		5491.7034	5708.2966	
30		5491.7034	5708.2966	
40		5491.7045	5708.2978	
25	102	5491.7050	5708.2989	
25	138	5491.7063	5708.2992	

802.11n40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5491.9628	5688.0354	FL and FH Within 5470~5725MHz range
10		5491.9638	5688.0355	
20		5491.9639	5688.0361	
30		5491.9646	5688.0361	
40		5491.9659	5688.0362	
25	102	5491.9663	5688.0365	
25	138	5491.9670	5688.0370	

802.11ac20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
℃	VAC	MHz	MHz	
0	120	5491.1403	5708.8555	FL and FH Within 5470~5725MHz range
10		5491.1422	5708.8576	
20		5491.1423	5708.8577	
30		5491.1433	5708.8592	
40		5491.1442	5708.8603	
25	102	5491.1452	5708.8610	
25	138	5491.1466	5708.8614	

802.11ac40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5491.9631	5688.1963	FL and FH Within 5470~5725MHz range
10		5491.9639	5688.1954	
20		5491.9639	5688.1964	
30		5491.9639	5688.1970	
40		5491.9648	5688.1982	
25	102	5491.9660	5688.1983	
25	138	5491.9663	5688.1989	

802.11ac80				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5492.0024	5647.9945	FL and FH Within 5470~5725MHz range
10		5492.0047	5647.9940	
20		5492.0040	5647.9960	
30		5492.0050	5647.9966	
40		5492.0053	5647.9967	
25	102	5492.0063	5647.9978	
25	138	5492.0067	5647.9992	

**For 5725-5850 MHz:**

802.11a				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5736.7834	5833.2959	FL and FH Within 5725~5850MHz range
10		5736.7825	5833.2970	
20		5736.7836	5833.2966	
30		5736.7844	5833.2971	
40		5736.7856	5833.2986	
25	102	5736.7865	5833.2998	
25	138	5736.7871	5833.3002	

802.11n-HT20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5736.1417	5833.8563	FL and FH Within 5725~5850MHz range
10		5736.1403	5833.8565	
20		5736.1423	5833.8577	
30		5736.1423	5833.8584	
40		5736.1424	5833.8584	
25	102	5736.1425	5833.8592	
25	138	5736.1431	5833.8607	

802.11n40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5736.9619	5813.1964	FL and FH Within 5725~5850MHz range
10		5736.9638	5813.1944	
20		5736.9639	5813.1964	
30		5736.9648	5813.1965	
40		5736.9654	5813.1976	
25	102	5736.9668	5813.1989	
25	138	5736.9675	5813.2004	

802.11ac20				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5736.1405	5833.8572	FL and FH Within 5725~5850MHz range
10		5736.1428	5833.8583	
20		5736.1423	5833.8577	
30		5736.1436	5833.8591	
40		5736.1450	5833.8596	
25	102	5736.1454	5833.8606	
25	138	5736.1456	5833.8612	

802.11ac40				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5736.9628	5813.1956	FL and FH Within 5725~5850MHz range
10		5736.9639	5813.1966	
20		5736.9639	5813.1964	
30		5736.9646	5813.1975	
40		5736.9657	5813.1979	
25	102	5736.9670	5813.1981	
25	138	5736.9670	5813.1984	

802.11ac80				
Temperature	Voltage	FL at Low Test Channel	FH at High Test Channel	Limit
°C	VAC	MHz	MHz	
0	120	5737.3241	5812.9930	FL and FH Within 5725~5850MHz range
10		5737.3246	5812.9966	
20		5737.3247	5812.9960	
30		5737.3248	5812.9973	
40		5737.3263	5812.9979	
25	102	5737.3264	5812.9991	
25	138	5737.3266	5812.9999	

## **FCC §15.407(a) (1) (2) (3) (4) – CONDUCTED TRANSMITTER OUTPUT POWER**

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### **Applicable Standard**

#### *(a) Power limits:*

- (1) For the band 5.15-5.25 GHz.
  - (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 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.
- (2) 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  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. 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.
- (3) 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.

NOTE TO PARAGRAPH (A)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

- (4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

### **Test Procedure**

(According to 789033 D02 General UNII Test Procedures New Rules v01r04)

## Test Data

### Environmental Conditions

<b>Temperature:</b>	29 ~ 30 °C
<b>Relative Humidity:</b>	50 ~54 %
<b>ATM Pressure:</b>	94.5 ~ 94.8 kPa

\* The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.

Test Mode: Transmitting

The device is an indoor AP.

### For 5150-5250 MHz:

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)		Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1		
802.11a	Low	5180	16.05	15.27	18.69	30
	Middle	5200	16.14	15.24	18.72	30
	High	5240	15.91	14.68	18.35	30
802.11n-HT20	Low	5180	16.74	15.58	19.21	30
	Middle	5200	16.33	15.18	18.80	30
	High	5240	16.11	14.55	18.41	30
802.11n-HT40	Low	5190	14.68	13.89	17.31	30
	High	5230	14.74	13.99	17.39	30
802.11ac20	Low	5180	16.18	15.31	18.78	30
	Middle	5200	16.19	15.08	18.68	30
	High	5240	16.37	14.52	18.55	30
802.11ac40	Low	5190	14.67	14.38	17.54	30
	High	5230	14.73	13.83	17.31	30
802.11ac80	Middle	5210	14.31	13.23	16.81	30

**For 5250-5350 MHz:**

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)		Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1		
802.11a	Low	5260	16.24	14.44	18.44	23.90
	Middle	5280	16.06	14.55	18.38	23.90
	High	5320	15.55	13.99	17.85	23.90
802.11n-HT20	Low	5260	16.16	14.51	18.42	24
	Middle	5280	15.95	14.65	18.36	24
	High	5320	15.49	13.96	17.80	24
802.11n-HT40	Low	5270	16.05	14.63	18.41	24
	High	5310	15.54	13.97	17.84	24
802.11ac20	Low	5260	16.28	13.98	18.29	24
	Middle	5280	15.85	14.18	18.11	24
	High	5320	15.41	13.47	17.56	24
802.11ac40	Low	5270	15.99	14.02	18.13	24
	High	5310	15.22	13.17	17.33	24
802.11ac80	Middle	5290	15.68	13.07	17.58	24

**For 5470-5725 MHz:**

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)		Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1		
802.11a	Low	5500	16.32	15.48	18.93	23.88
	Middle	5600	15.85	16.13	19.00	23.88
	High	5700	15.13	16.06	18.63	23.88
	Crossed	5720	15.38	16.09	18.76	23.88
802.11n-HT20	Low	5500	16.32	16.19	19.27	24
	Middle	5600	16.07	16.89	19.51	24
	High	5700	15.46	16.71	19.14	24
	Crossed	5720	15.51	16.64	19.12	24
802.11n-HT40	Low	5510	14.61	15.62	18.15	24
	Middle	5590	13.93	15.51	17.80	24
	High	5670	12.85	15.45	17.35	24
	Crossed	5710	13.44	15.61	17.67	24
802.11ac20	Low	5500	16.72	16.32	19.53	24
	Middle	5600	16.01	16.94	19.51	24
	High	5700	15.43	16.74	19.14	24
	Crossed	5720	15.87	16.82	19.38	24
802.11ac40	Low	5510	14.17	14.68	17.44	24
	Middle	5590	13.33	14.83	17.15	24
	High	5670	12.75	15.13	17.11	24
	Crossed	5710	13.05	14.96	17.12	24
802.11ac80	Low	5530	14.22	14.89	17.58	24
	High	5610	13.75	15.05	17.46	24
	Crossed	5690	14.01	14.96	17.52	24

Note: for cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirement of 5725-5850.



**For 5725-5850 MHz:**

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)		Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1		
802.11a	Low	5745	15.32	17.79	19.74	30
	Middle	5785	16.11	18.21	20.30	30
	High	5825	15.38	17.41	19.52	30
802.11n-HT20	Low	5745	15.69	17.72	19.83	30
	Middle	5785	16.15	17.46	19.86	30
	High	5825	15.17	16.89	19.12	30
802.11n-HT40	Low	5755	14.44	17.11	18.99	30
	High	5795	14.83	16.78	18.92	30
802.11ac20	Low	5745	15.64	18.04	20.01	30
	Middle	5785	16.29	17.79	20.11	30
	High	5825	15.21	17.11	19.27	30
802.11ac40	Low	5755	13.67	16.29	18.18	30
	High	5795	14.28	16.22	18.37	30
802.11ac80	Middle	5775	13.86	15.91	18.02	30

Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

So:

Directional gain =  $G_{ANT} + \text{Array Gain} = 3 \text{ dBi} < 6 \text{ dBi}$

## **FCC §15.407(a) (1) (2) (3) (5) - POWER SPECTRAL DENSITY**

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(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(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 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.

(2) 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. 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.

(3) 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.

(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

### **Test Procedure**

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04

## Test Data

### Environmental Conditions

<b>Temperature:</b>	29 ~ 30 °C
<b>Relative Humidity:</b>	50 ~54 %
<b>ATM Pressure:</b>	94.5 ~ 94.8 kPa

\* The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.

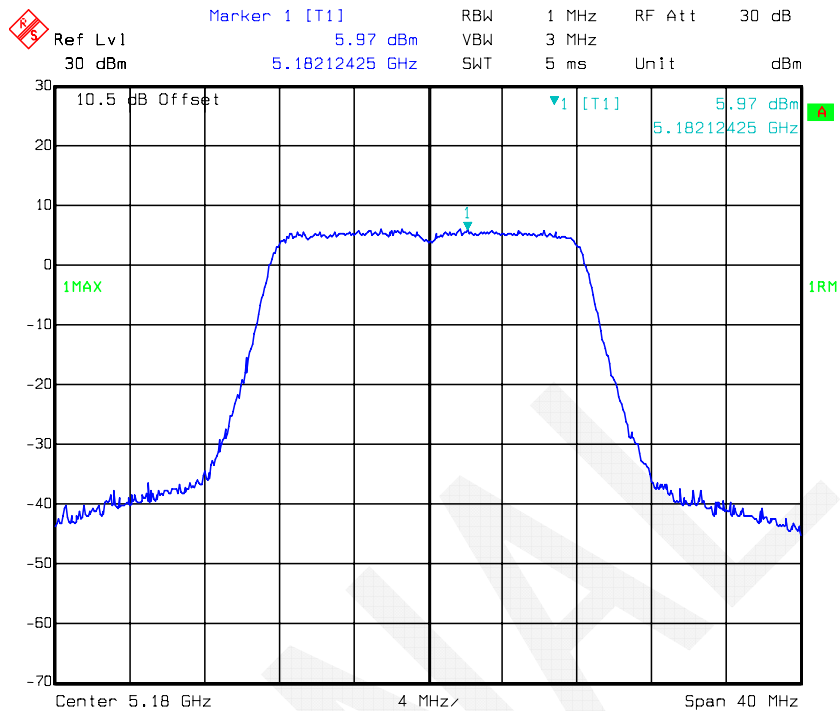
Test Mode: Transmitting

**Test Result:** Pass

### For 5150-5250 MHz:

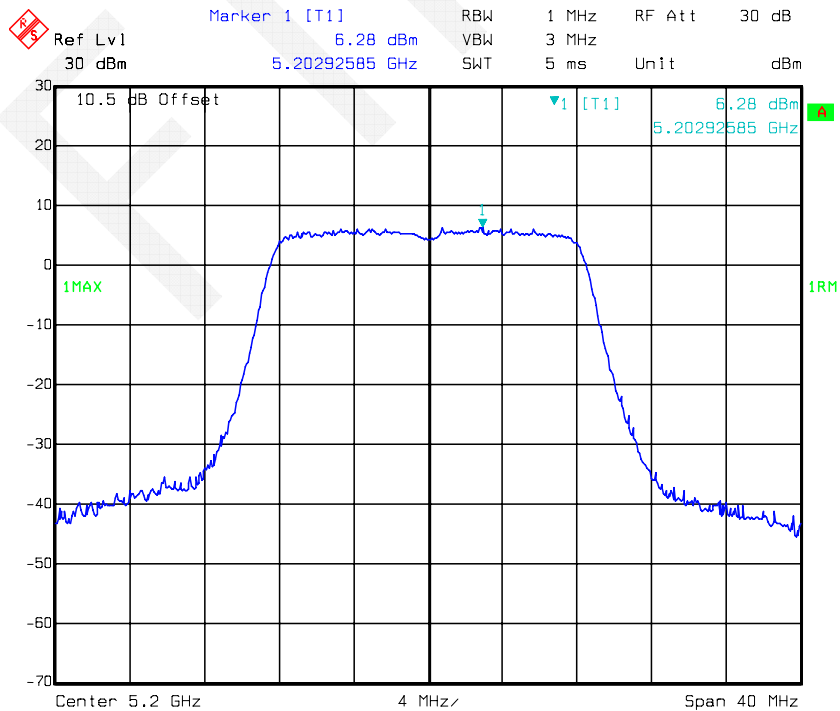
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)
			Antenna 0	Antenna 1		
802.11a	Low	5180	5.97	3.99	8.10	17
	Middle	5200	6.28	3.92	8.27	17
	High	5240	5.68	3.09	7.59	17
802.11n-HT20	Low	5180	5.92	4.88	8.44	17
	Middle	5200	5.71	4.92	8.34	17
	High	5240	5.43	4.37	7.94	17
802.11n-HT40	Low	5190	1.40	0.67	4.06	17
	High	5230	1.65	0.87	4.29	17
802.11ac20	Low	5180	5.57	5.30	8.45	17
	Middle	5200	6.12	4.90	8.56	17
	High	5240	5.33	4.28	7.85	17
802.11ac40	Low	5190	1.72	0.76	4.28	17
	High	5230	1.89	1.25	4.59	17
802.11ac80	Middle	5210	-1.81	-3.2	0.56	17

### 802.11a mode, Power Spectral Density-5180 MHz, Antenna 0



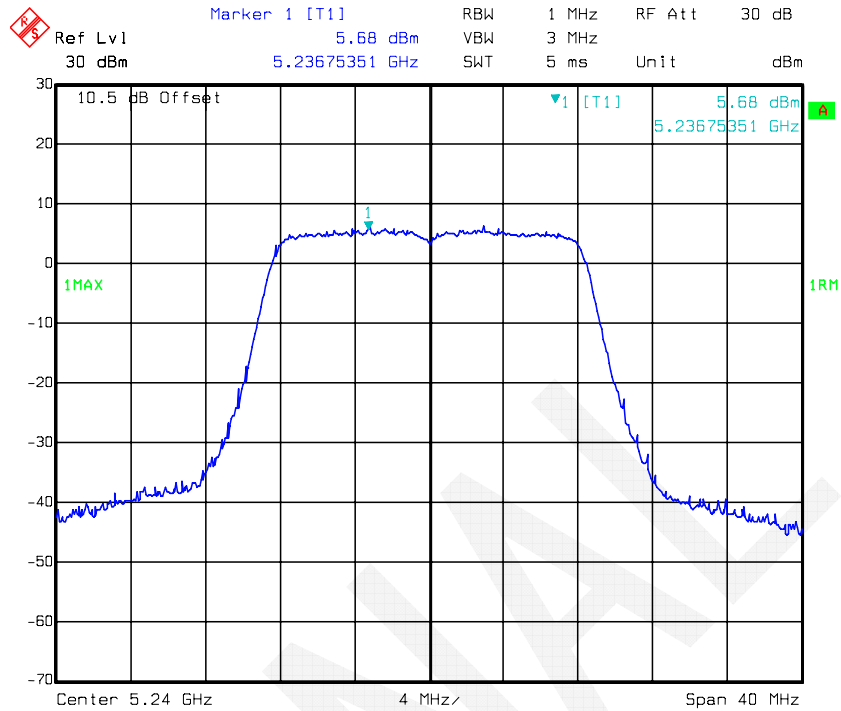
Date: 31.JUL.2017 15:51:58

### 802.11a mode, Power Spectral Density-5200 MHz, Antenna 0

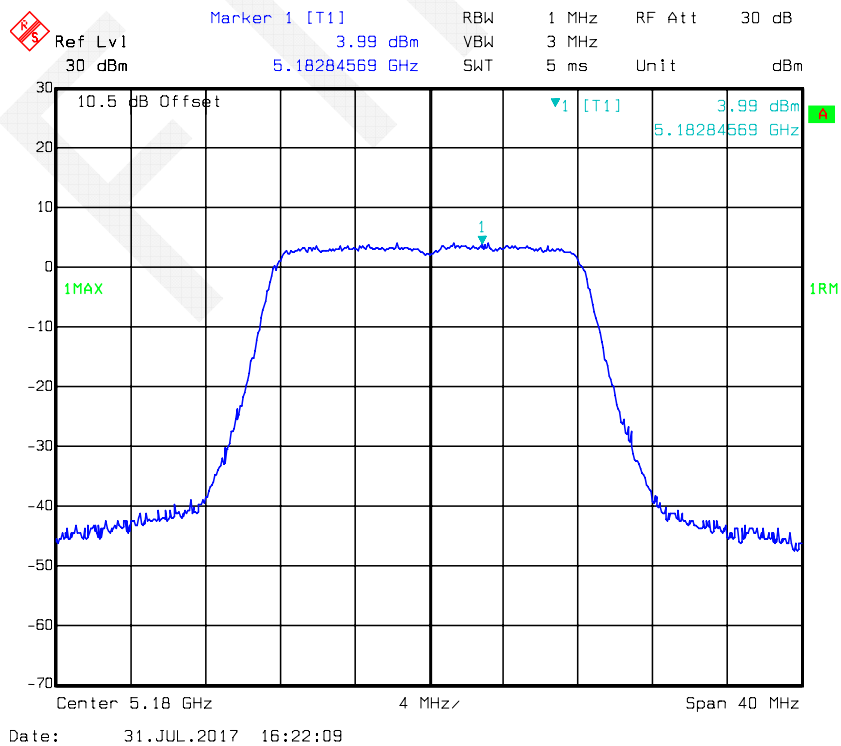


Date: 31.JUL.2017 15:53:25

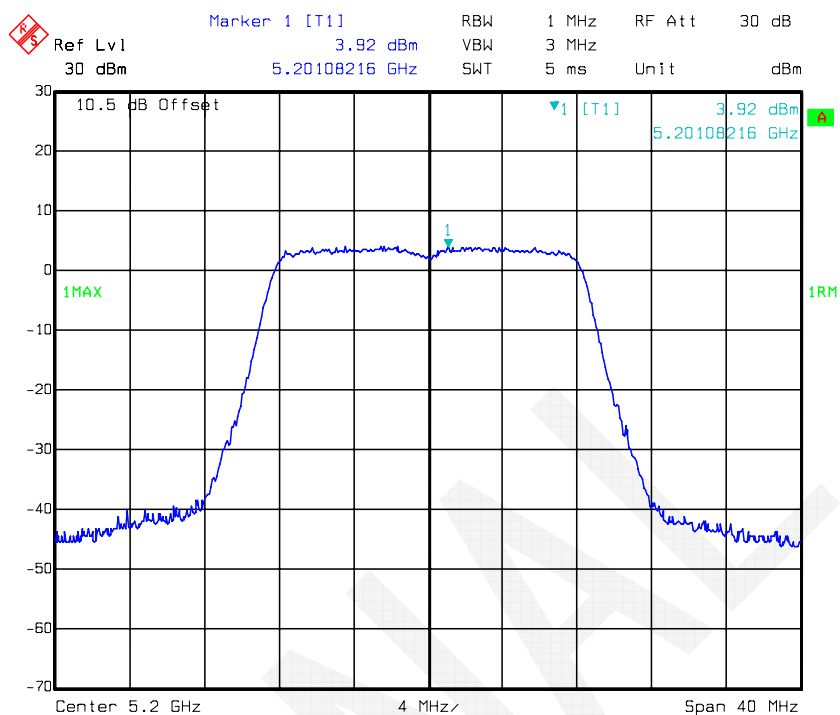
### 802.11a mode, Power Spectral Density-5240 MHz, Antenna 0



### 802.11a mode, Power Spectral Density-5180 MHz, Antenna 1

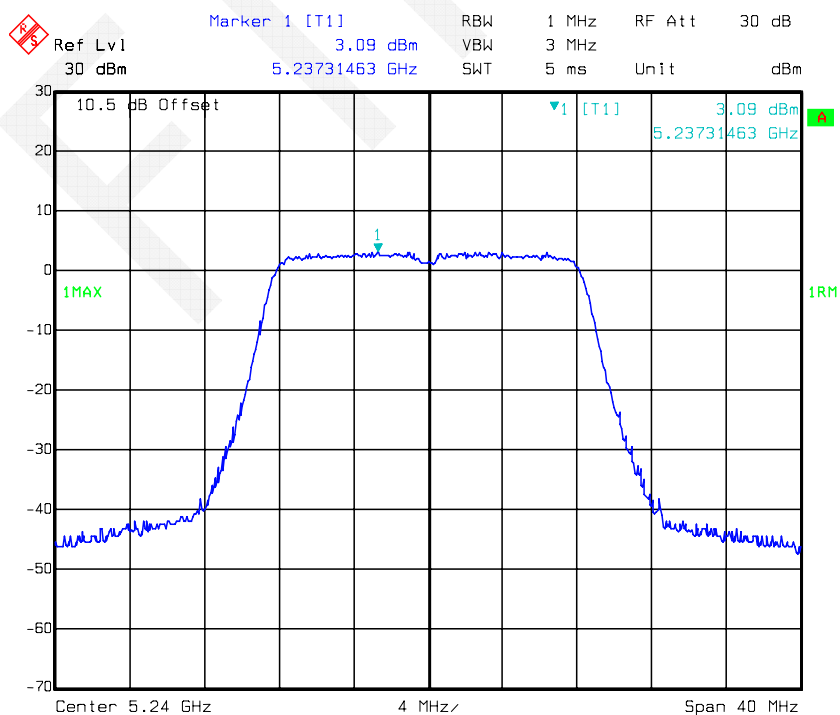


### 802.11a mode, Power Spectral Density-5200 MHz, Antenna 1



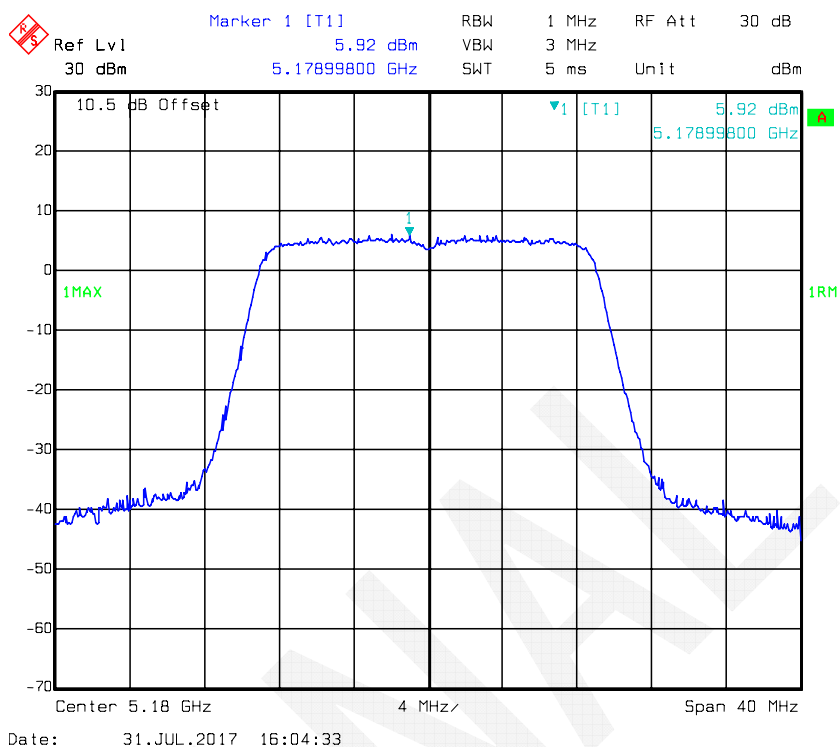
Date: 31.JUL.2017 16:26:40

### 802.11a mode, Power Spectral Density-5240 MHz, Antenna 1

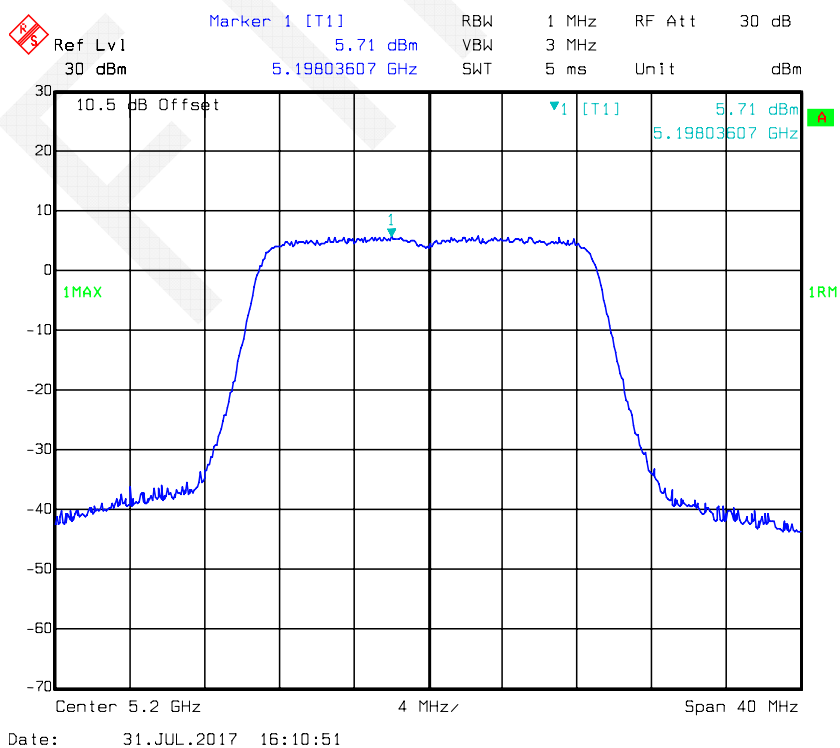


Date: 31.JUL.2017 16:27:39

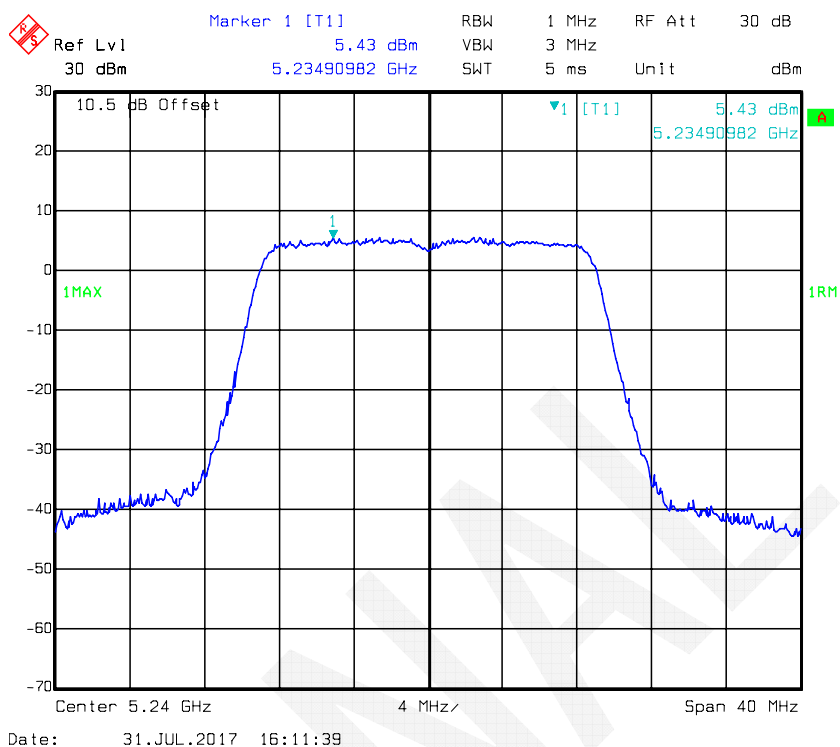
### 802.11n-HT20 mode, Power Spectral Density-5180 MHz, Antenna 0



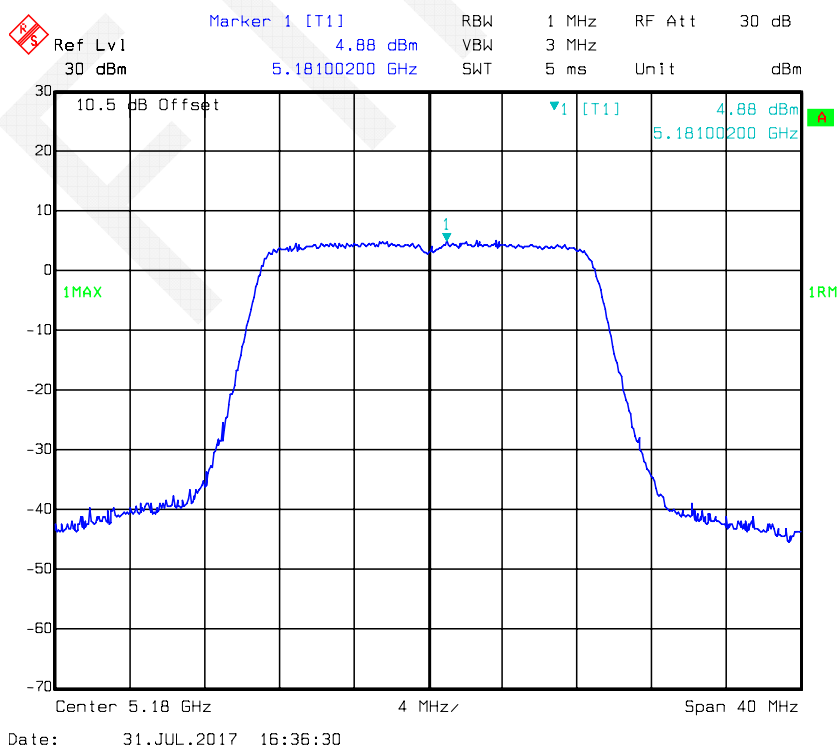
### 802.11n-HT20 mode, Power Spectral Density-5200 MHz, Antenna 0



### 802.11n-HT20 mode, Power Spectral Density-5240 MHz, Antenna 0

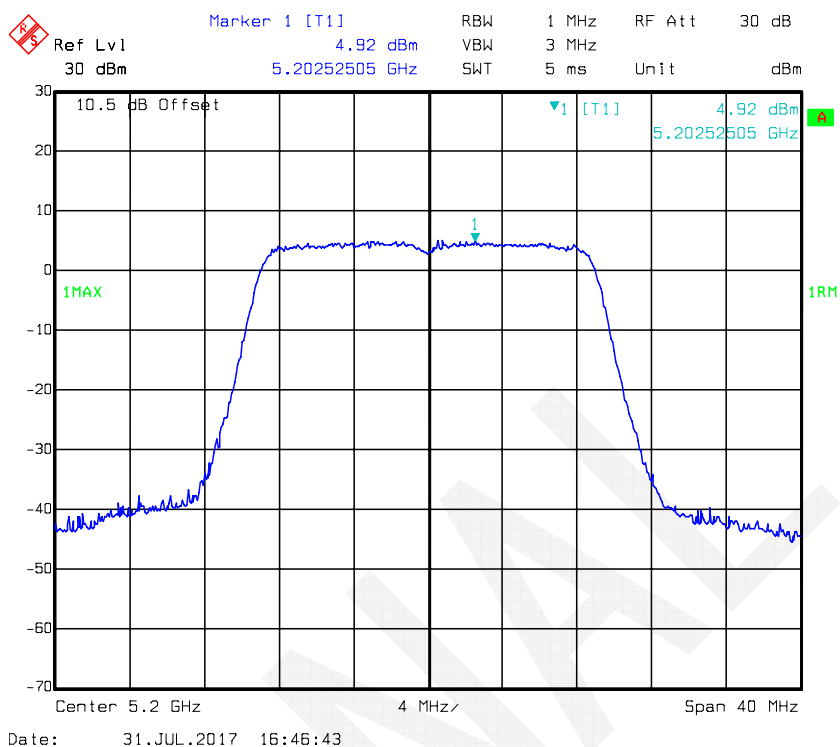


### 802.11n-HT20 mode, Power Spectral Density-5180 MHz, Antenna 1

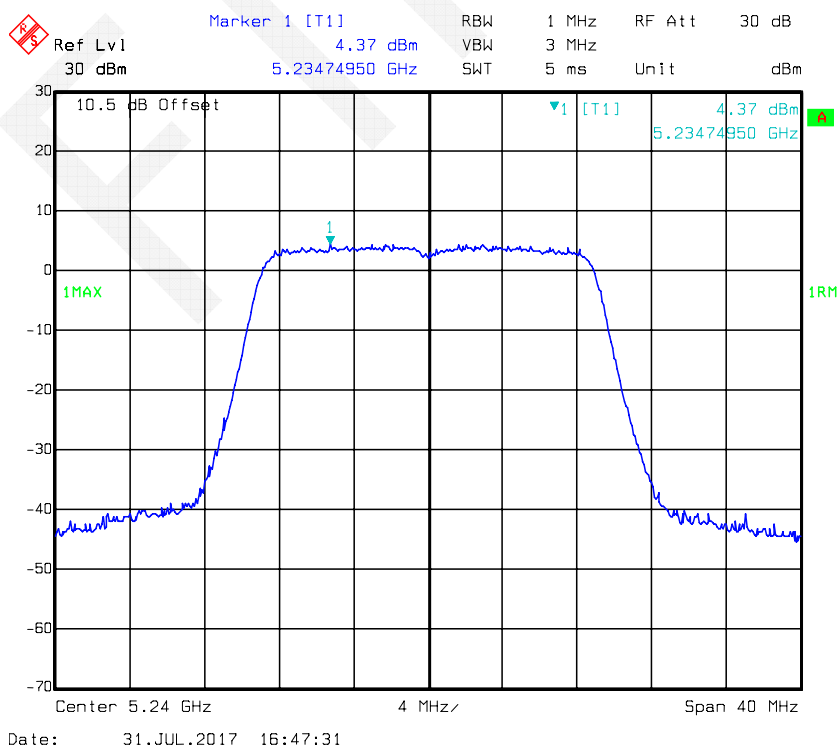




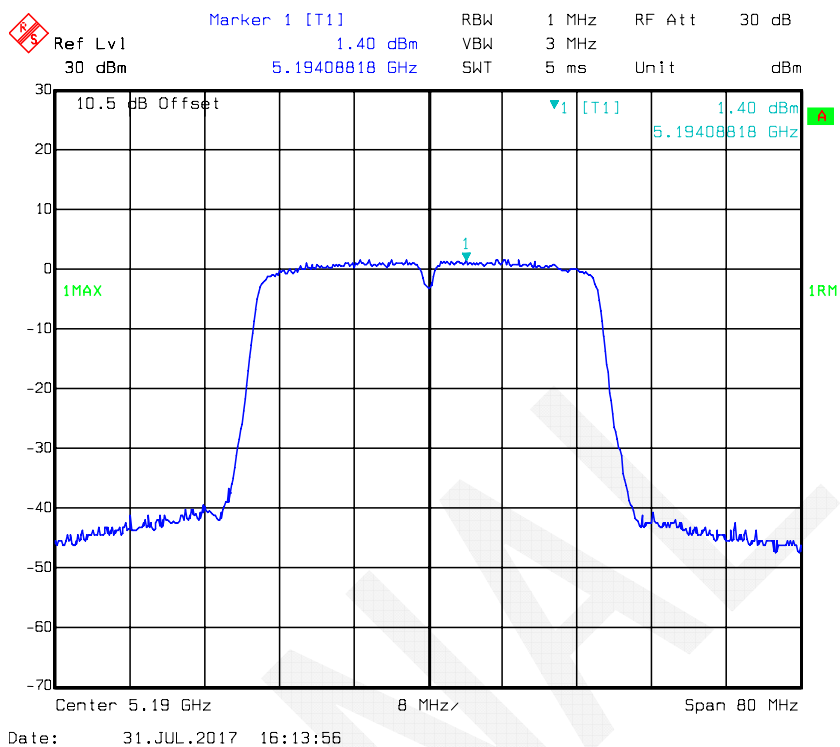
### 802.11n-HT20 mode, Power Spectral Density-5200 MHz, Antenna 1



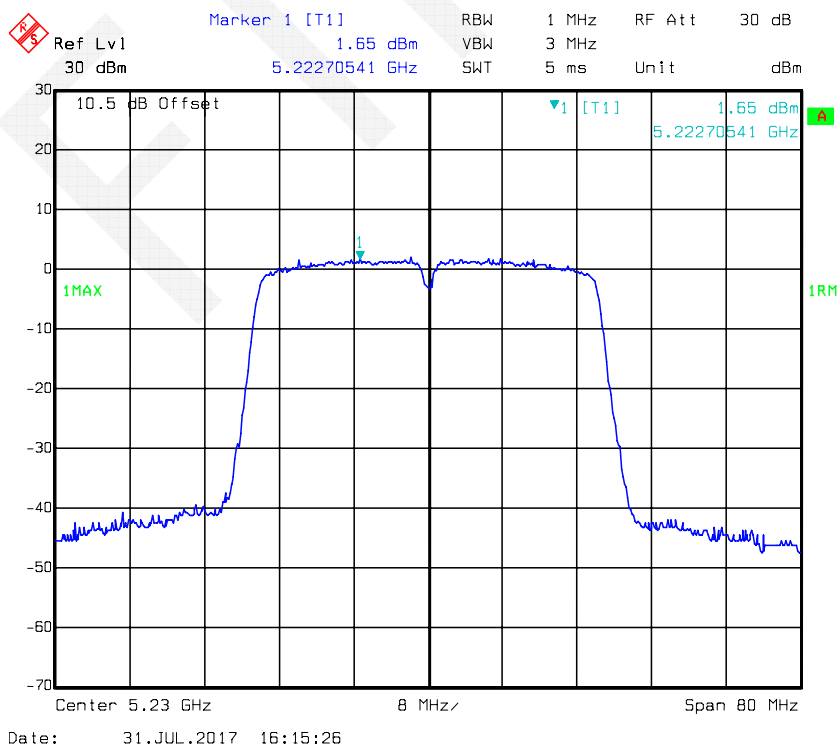
### 802.11n-HT20 mode, Power Spectral Density-5240 MHz, Antenna 1



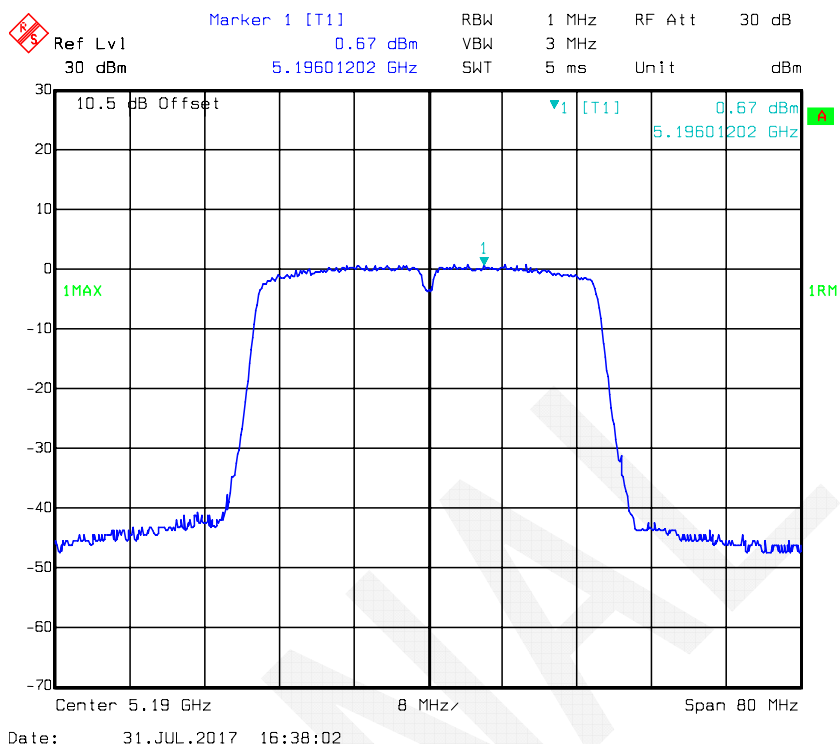
### 802.11n-HT40 mode, Power Spectral Density-5190 MHz, Antenna 0



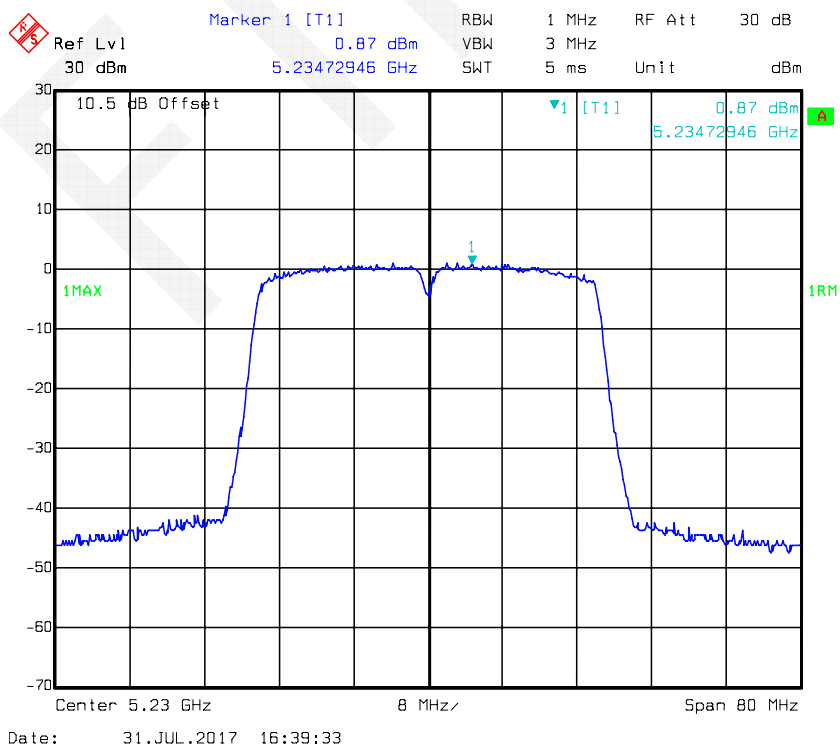
### 802.11n-HT40 mode, Power Spectral Density-5230 MHz, Antenna 0



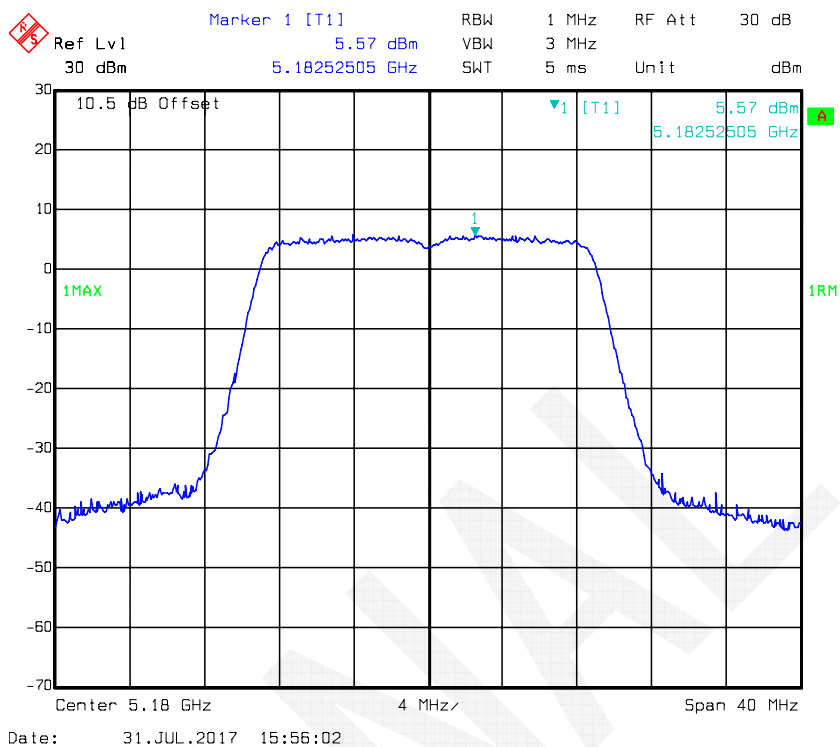
### 802.11n-HT40 mode, Power Spectral Density-5190 MHz, Antenna 1



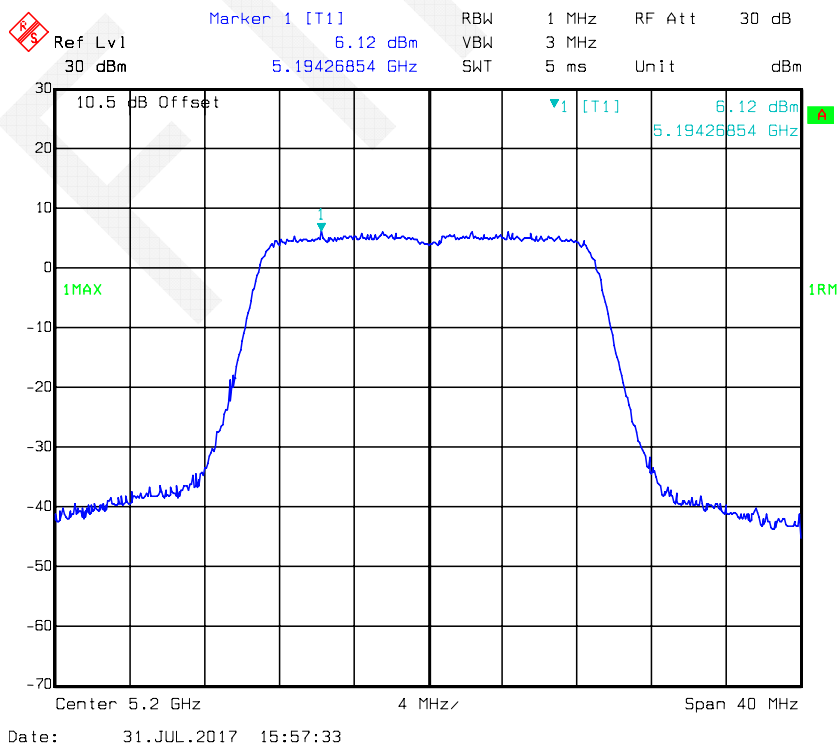
### 802.11n-HT40 mode, Power Spectral Density-5230 MHz, Antenna 1



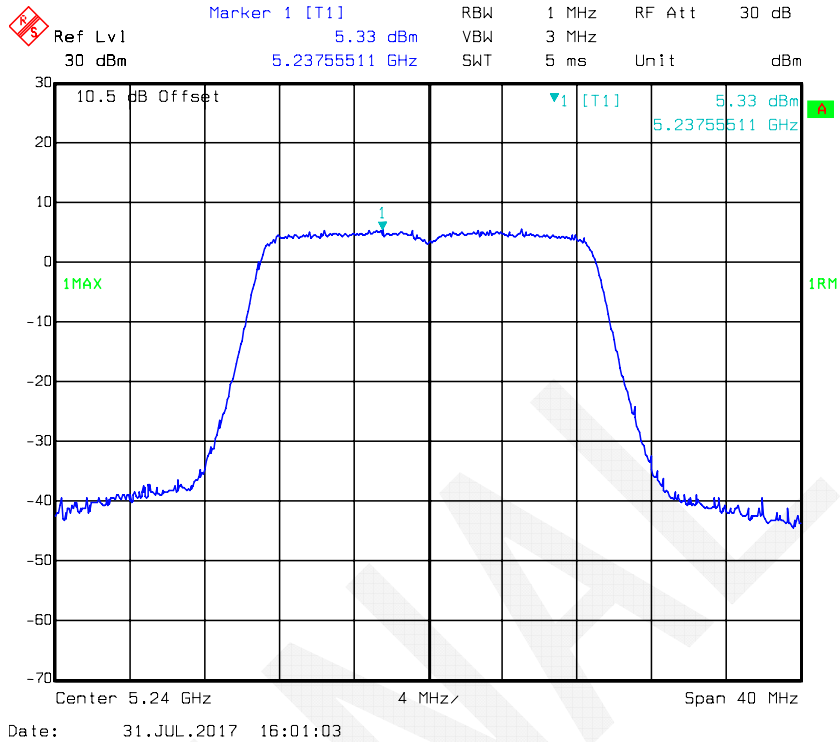
### 802.11ac20 mode, Power Spectral Density-5180 MHz, Antenna 0



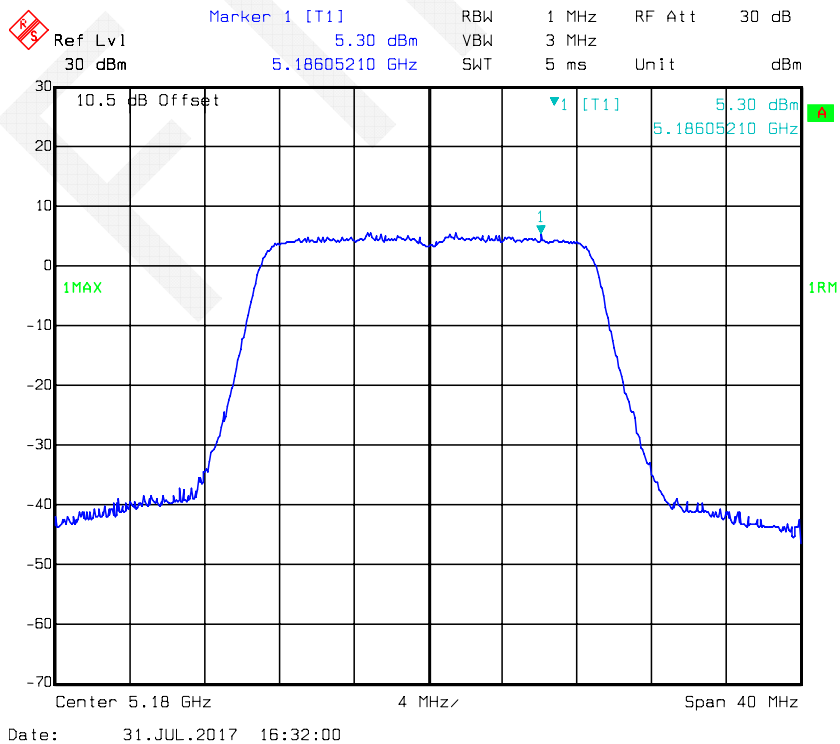
### 802.11ac20 mode, Power Spectral Density-5200 MHz, Antenna 0



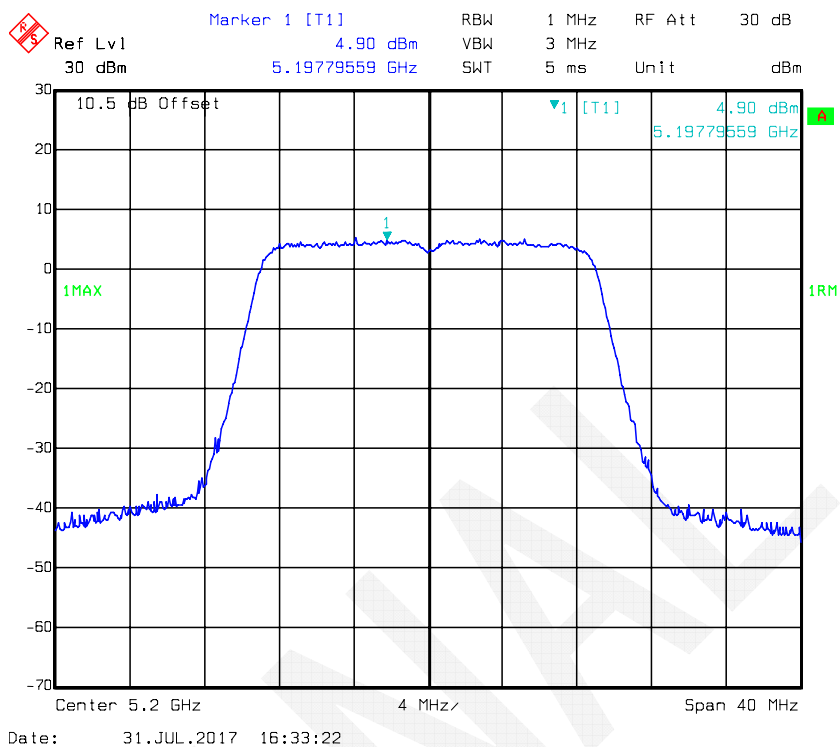
### 802.11ac20 mode, Power Spectral Density-5240 MHz, Antenna 0



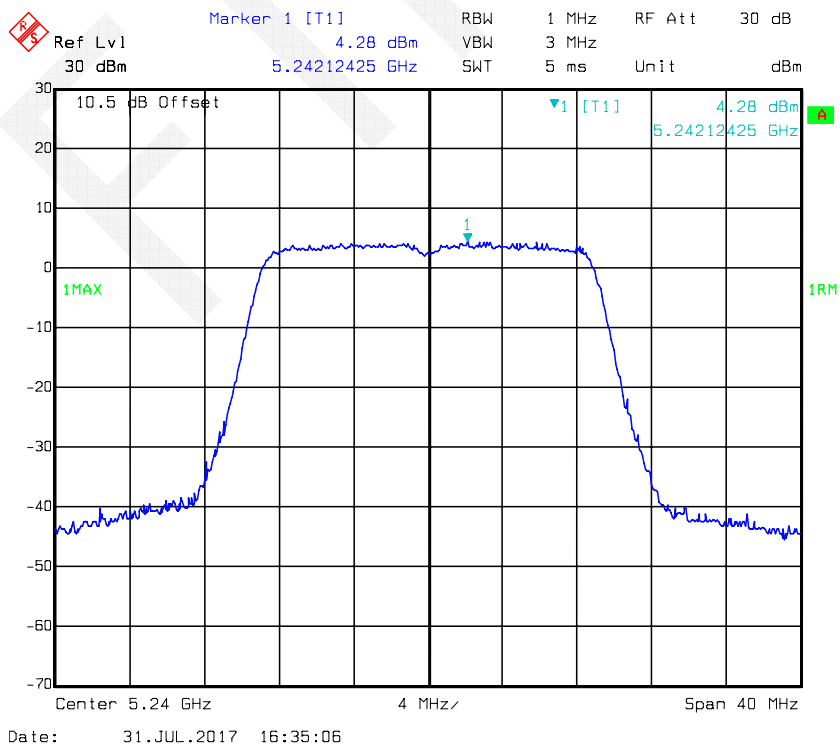
### 802.11ac20 mode, Power Spectral Density-5180 MHz, Antenna 1



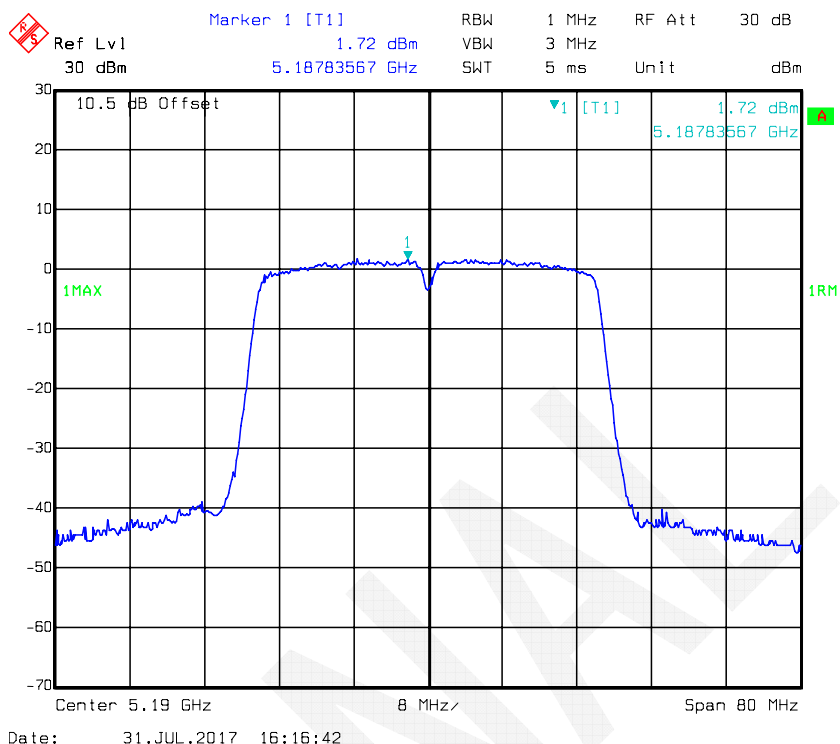
### 802.11ac20 mode, Power Spectral Density-5200 MHz, Antenna 1



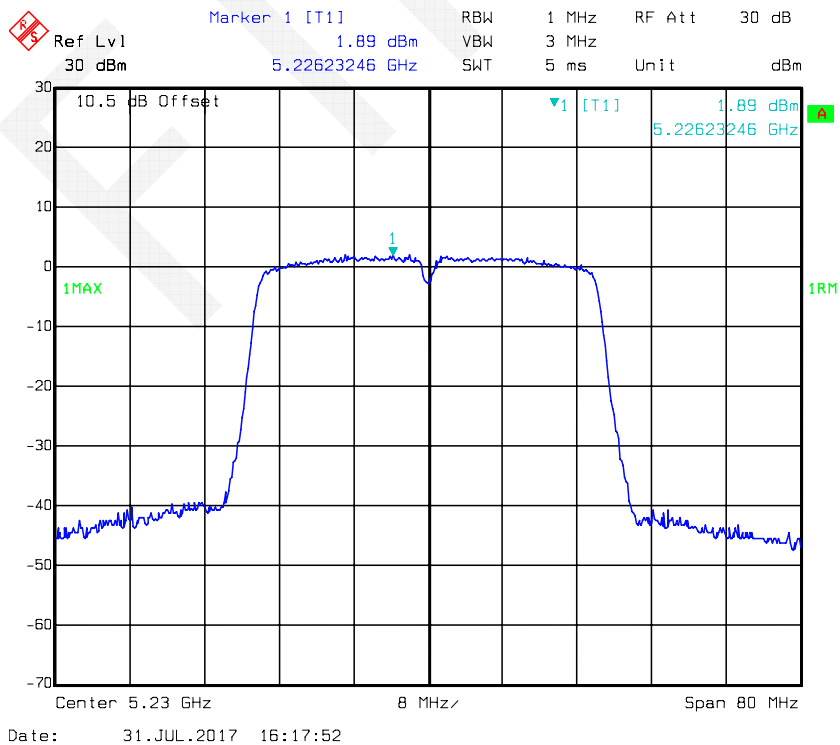
### 802.11ac20 mode, Power Spectral Density-5240 MHz, Antenna 1



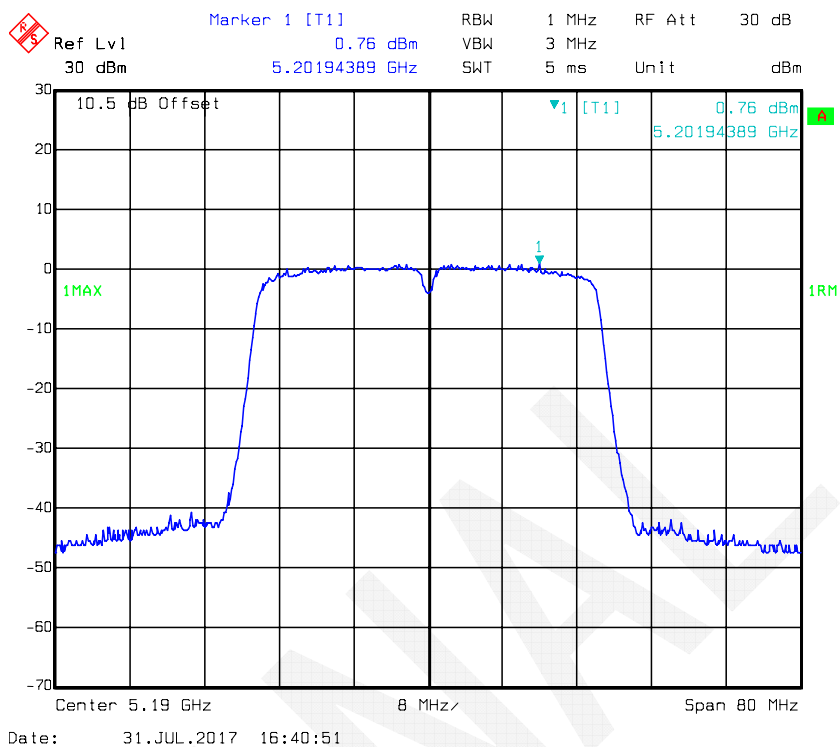
### 802.11ac40 mode, Power Spectral Density-5190 MHz, Antenna 0



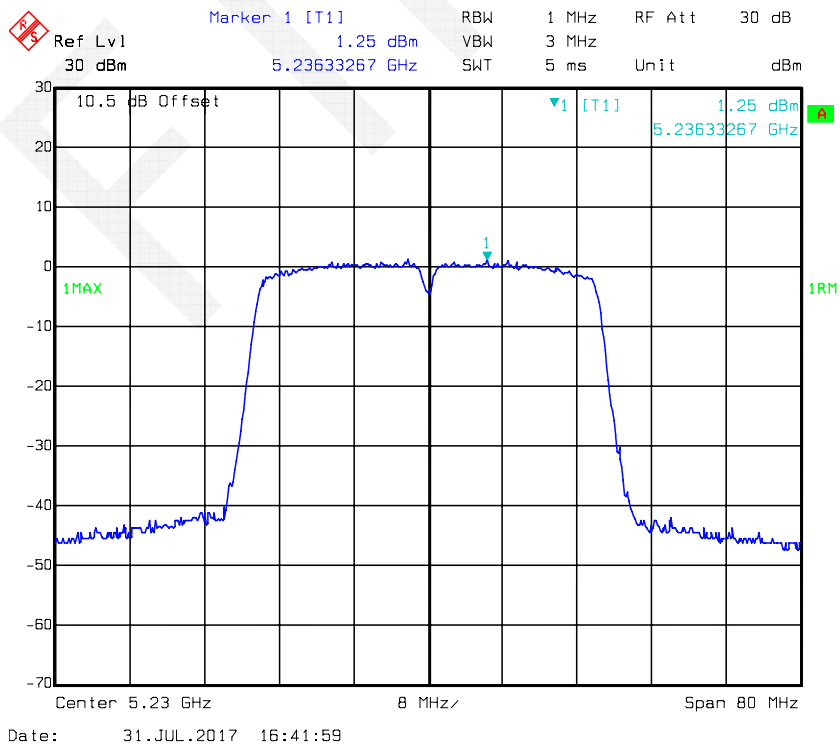
### 802.11ac40 mode, Power Spectral Density-5230 MHz, Antenna 0



### 802.11ac40 mode, Power Spectral Density-5190 MHz, Antenna 1

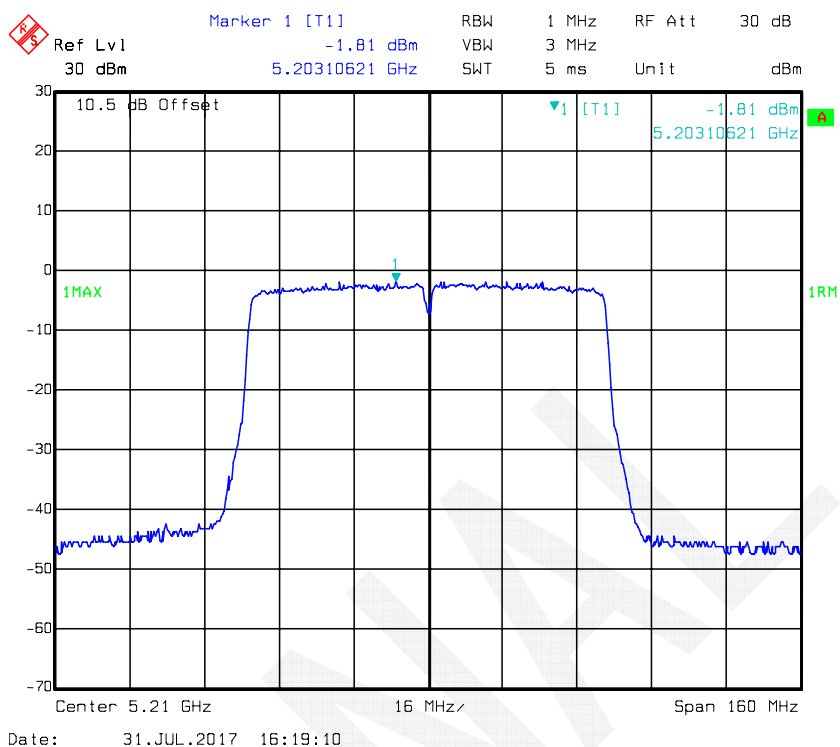


### 802.11ac40 mode, Power Spectral Density-5230 MHz, Antenna 1

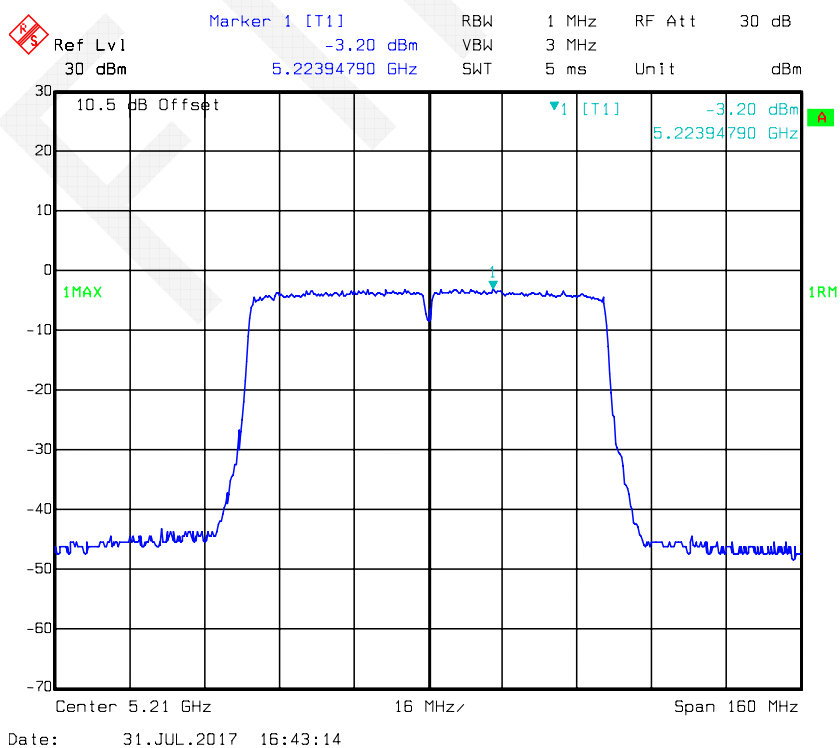




### 802.11ac80 mode, Power Spectral Density-5210 MHz, Antenna 0



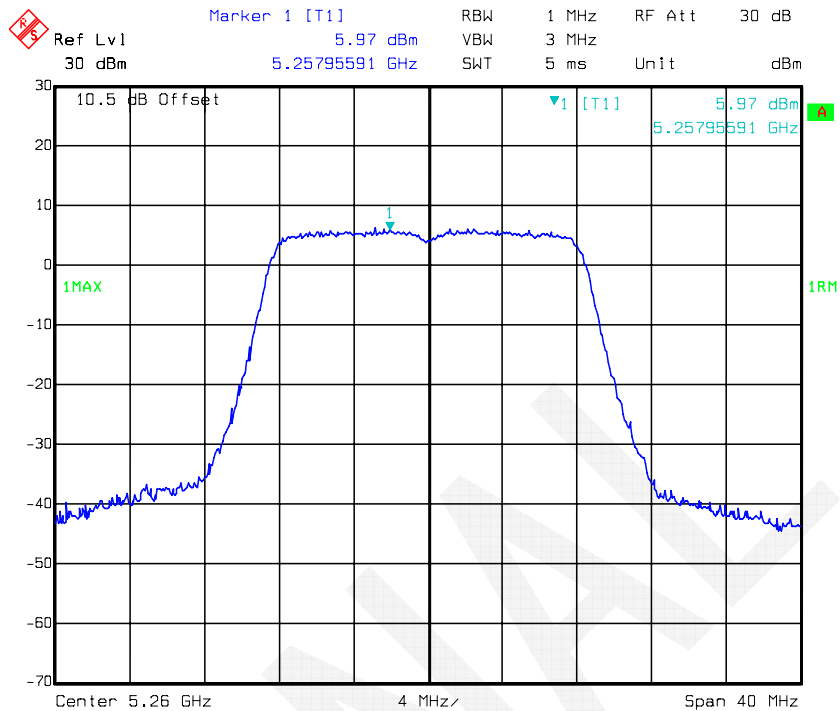
### 802.11ac80 mode, Power Spectral Density-5210 MHz, Antenna 1



**For 5250-5350 MHz:**

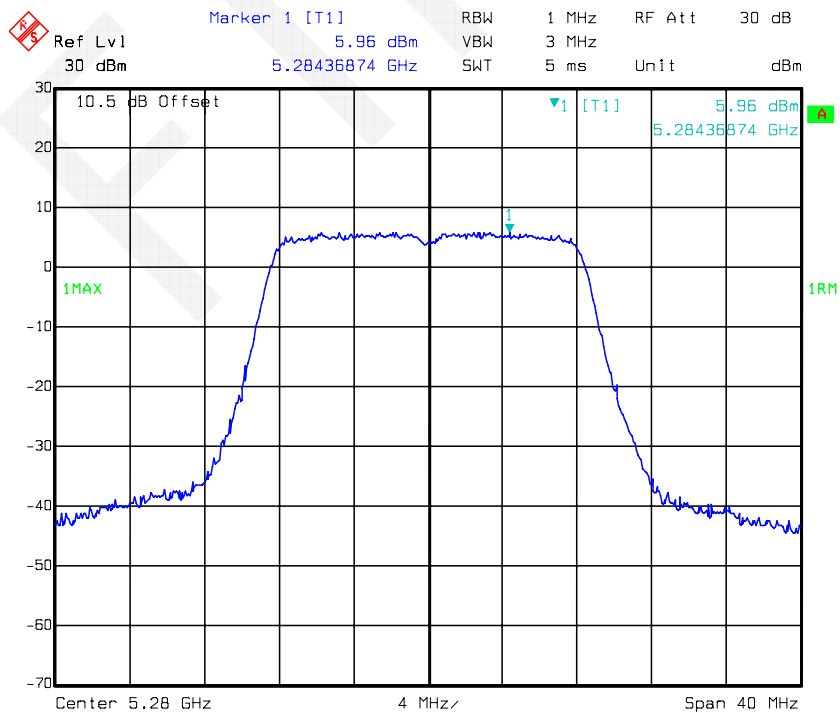
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)
			Antenna 0	Antenna 1		
802.11a	Low	5260	5.97	5.24	8.63	11
	Middle	5280	5.96	5.01	8.52	11
	High	5320	5.08	4.43	7.78	11
802.11n-HT20	Low	5260	5.94	4.71	8.38	11
	Middle	5280	5.48	4.82	8.17	11
	High	5320	4.9	4.05	7.51	11
802.11n-HT40	Low	5270	2.74	1.68	5.25	11
	High	5310	1.93	1.1	4.55	11
802.11ac20	Low	5260	5.88	5.06	8.5	11
	Middle	5280	5.88	4.79	8.38	11
	High	5320	5.04	4.11	7.61	11
802.11ac40	Low	5270	3.07	1.54	5.38	11
	High	5310	2.15	0.8	4.54	11
802.11ac80	Middle	5290	-0.99	-1.83	1.62	11

### 802.11a mode, Power Spectral Density-5260 MHz, Antenna 0



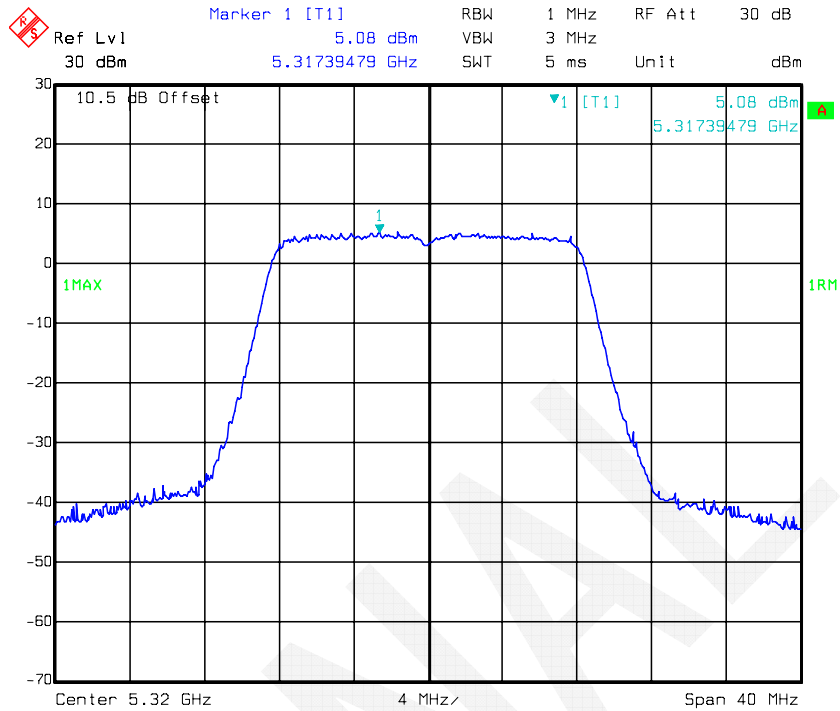
Date: 31.JUL.2017 18:20:30

### 802.11a mode, Power Spectral Density-5280 MHz, Antenna 0

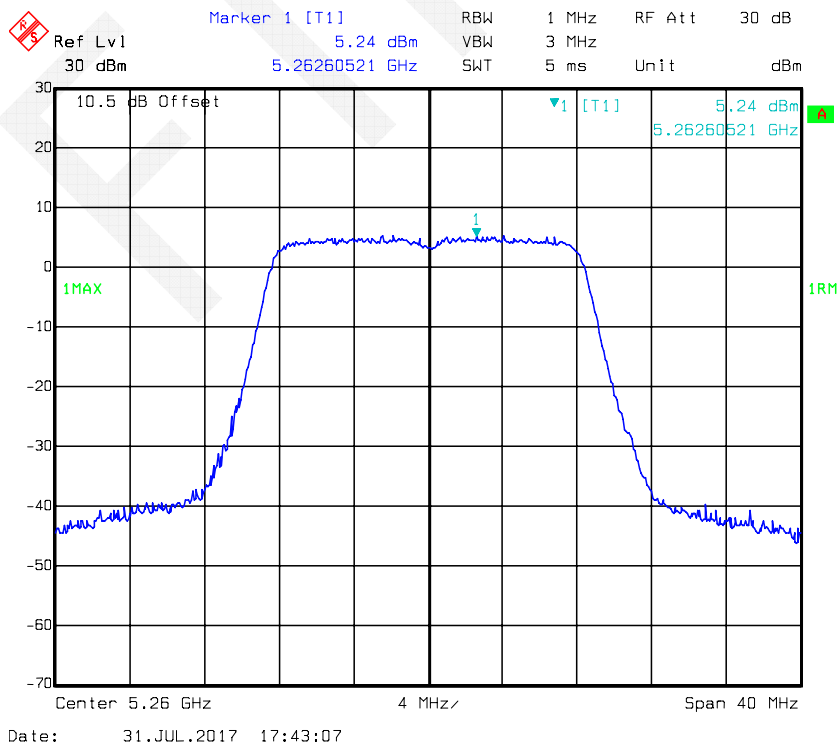


Date: 31.JUL.2017 18:21:34

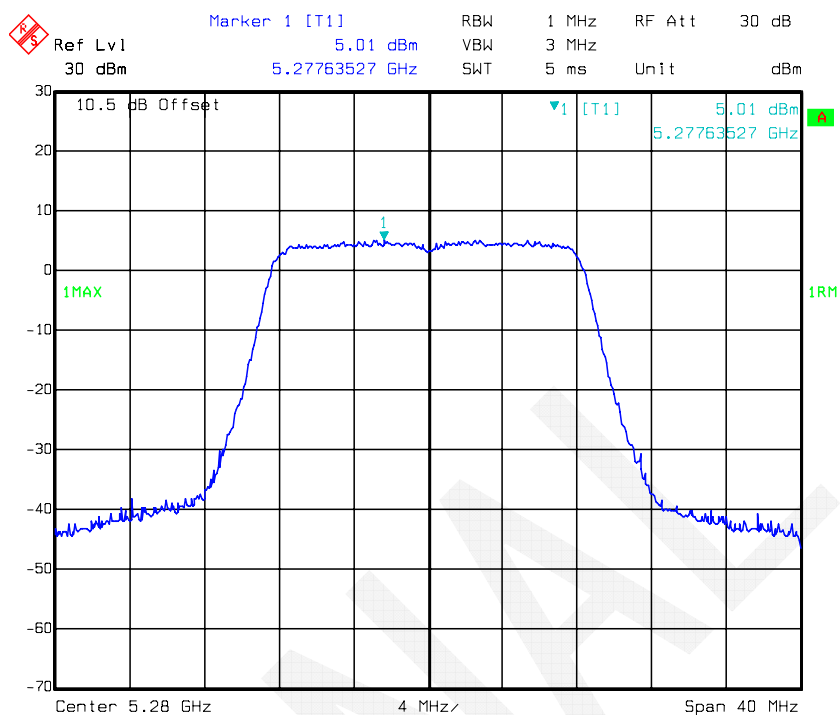
### 802.11a mode, Power Spectral Density-5320 MHz, Antenna 0



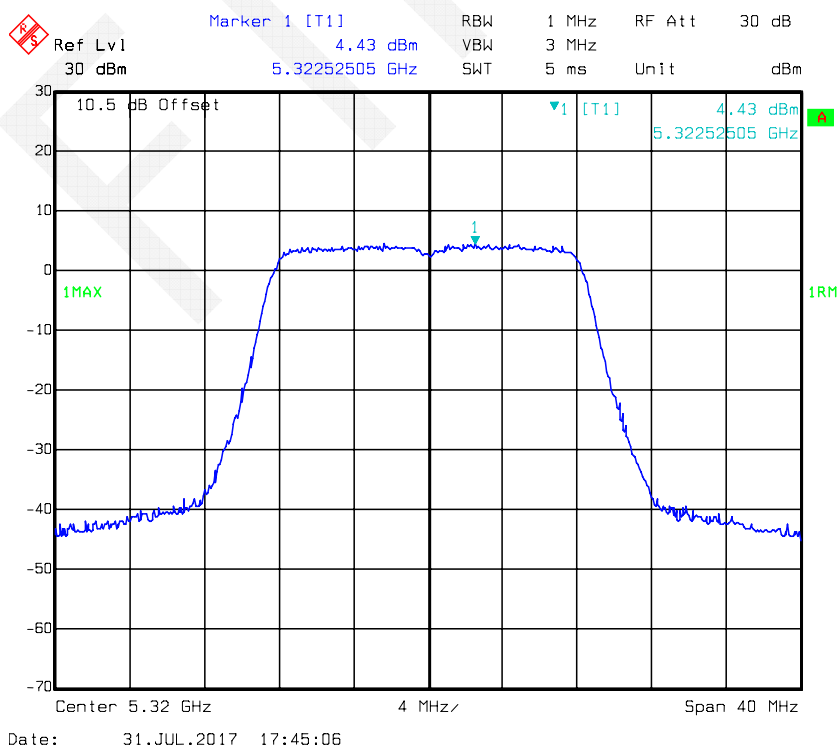
### 802.11a mode, Power Spectral Density-5260 MHz, Antenna 1



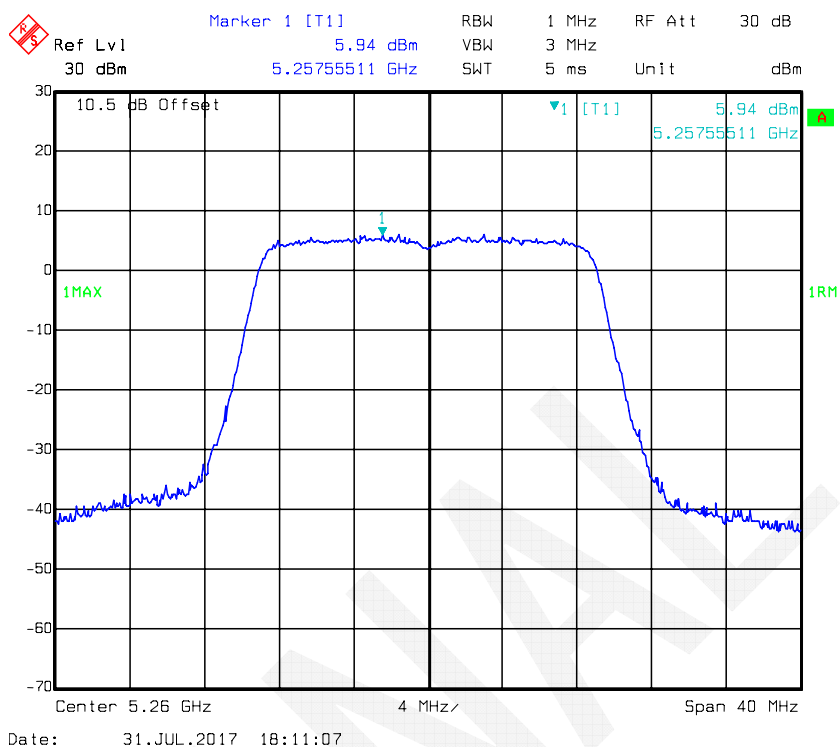
### 802.11a mode, Power Spectral Density-5280 MHz, Antenna 1



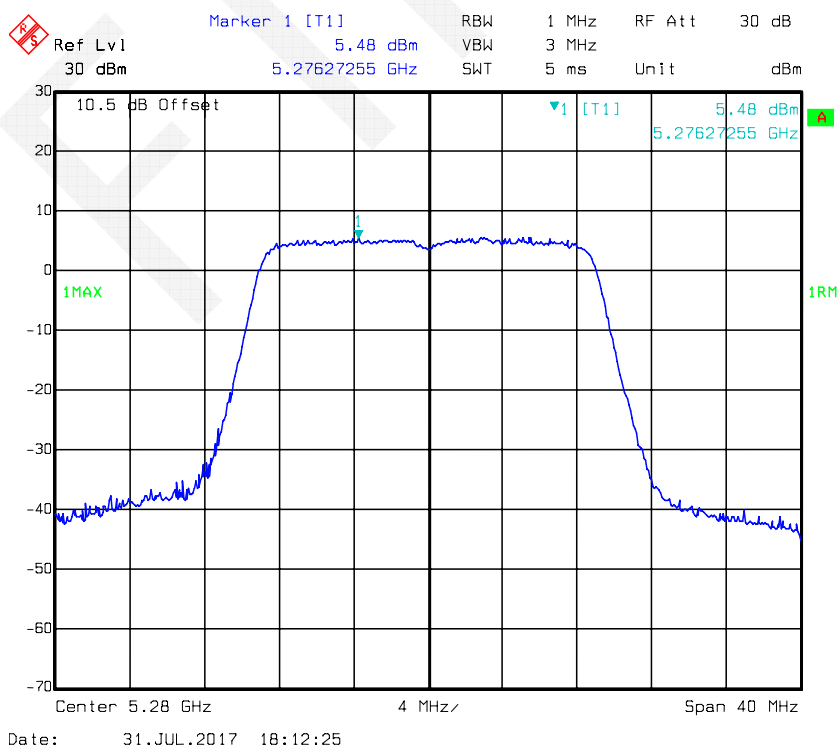
### 802.11a mode, Power Spectral Density-5320 MHz, Antenna 1



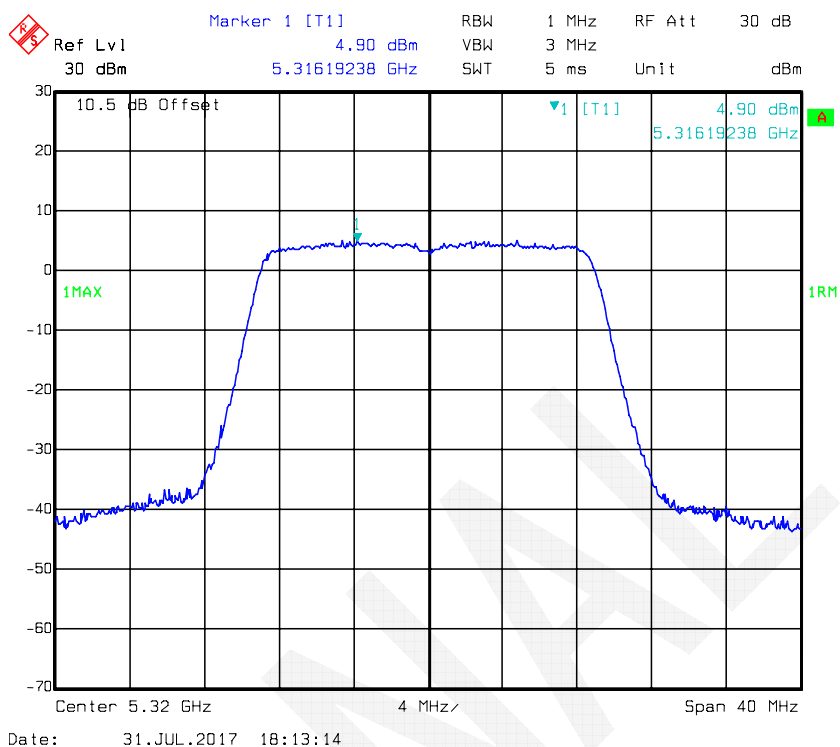
### 802.11n-HT20 mode, Power Spectral Density-5260 MHz, Antenna 0



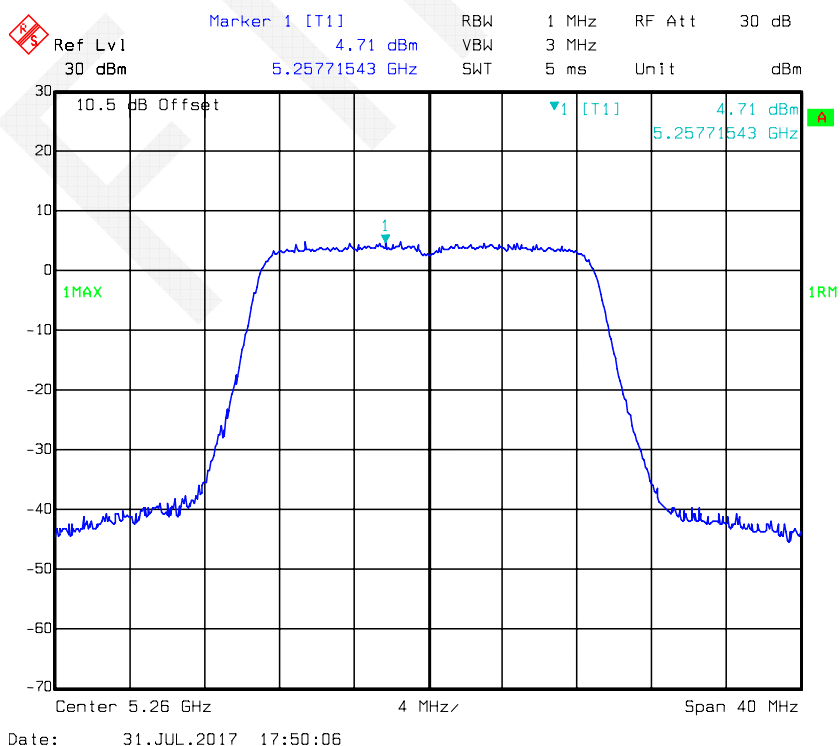
### 802.11n-HT20 mode, Power Spectral Density-5280 MHz, Antenna 0



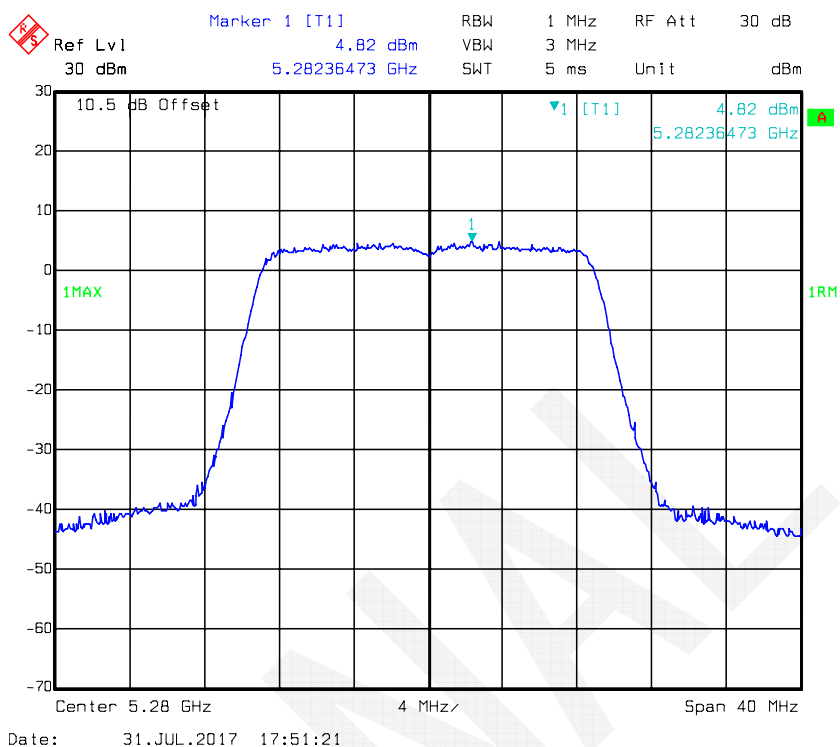
### 802.11n-HT20 mode, Power Spectral Density-5320 MHz, Antenna 0



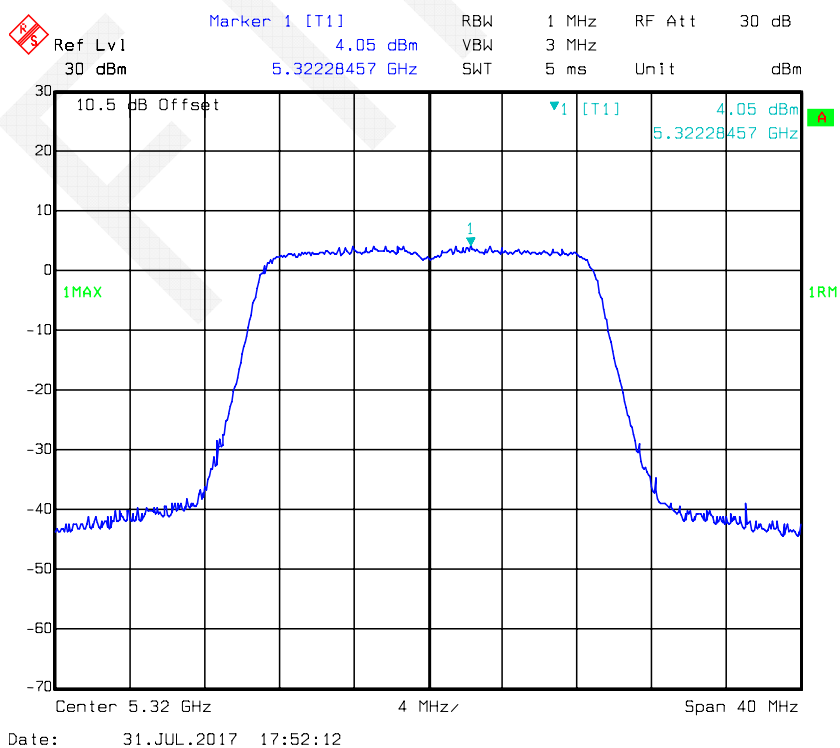
### 802.11n-HT20 mode, Power Spectral Density-5260 MHz, Antenna 1



### 802.11n-HT20 mode, Power Spectral Density-5280 MHz, Antenna 1

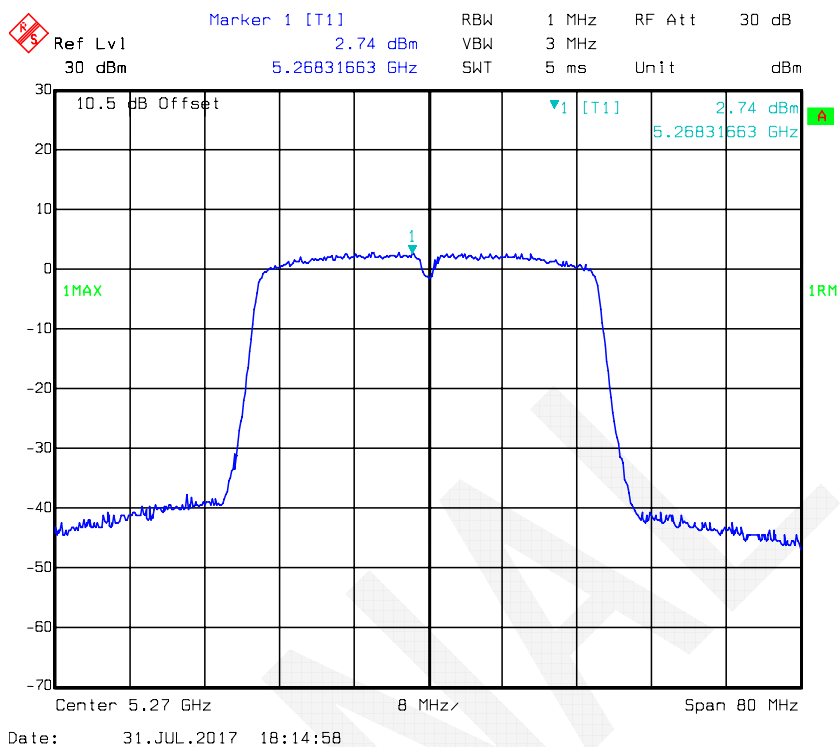


### 802.11n-HT20 mode, Power Spectral Density-5230 MHz, Antenna 1

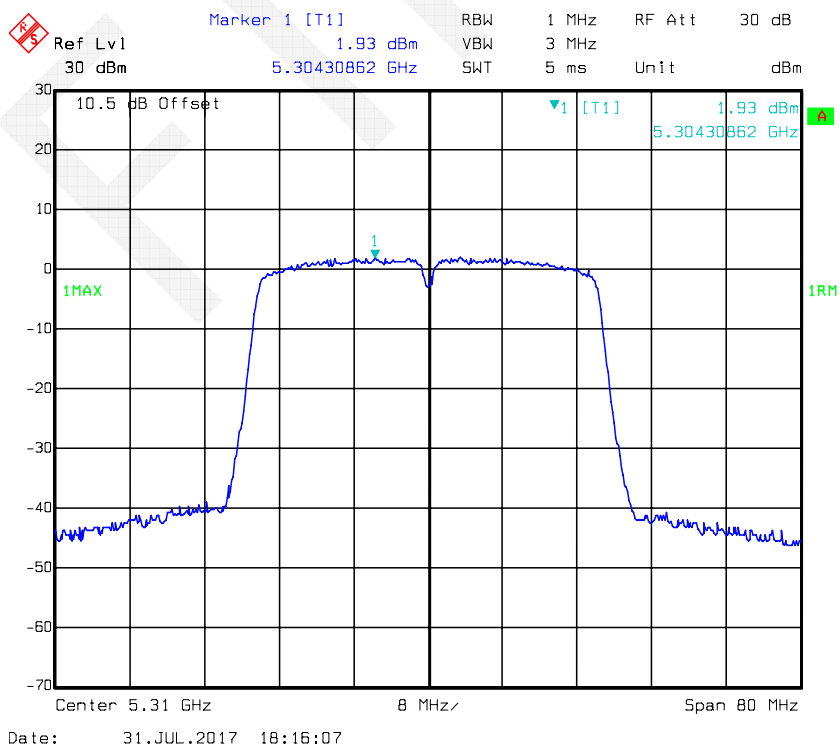




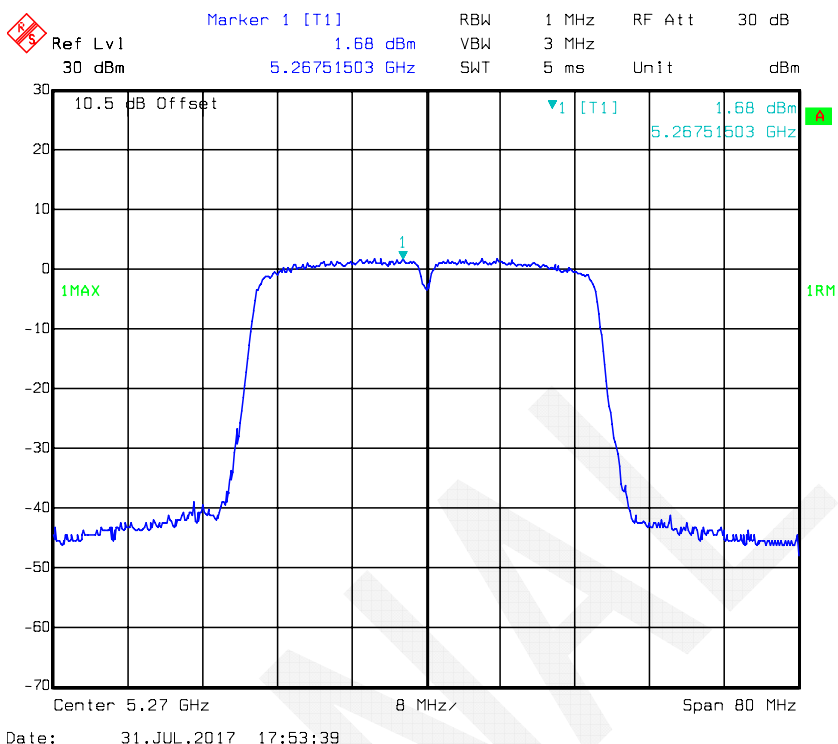
### 802.11n-HT40 mode, Power Spectral Density-5270 MHz, Antenna 0



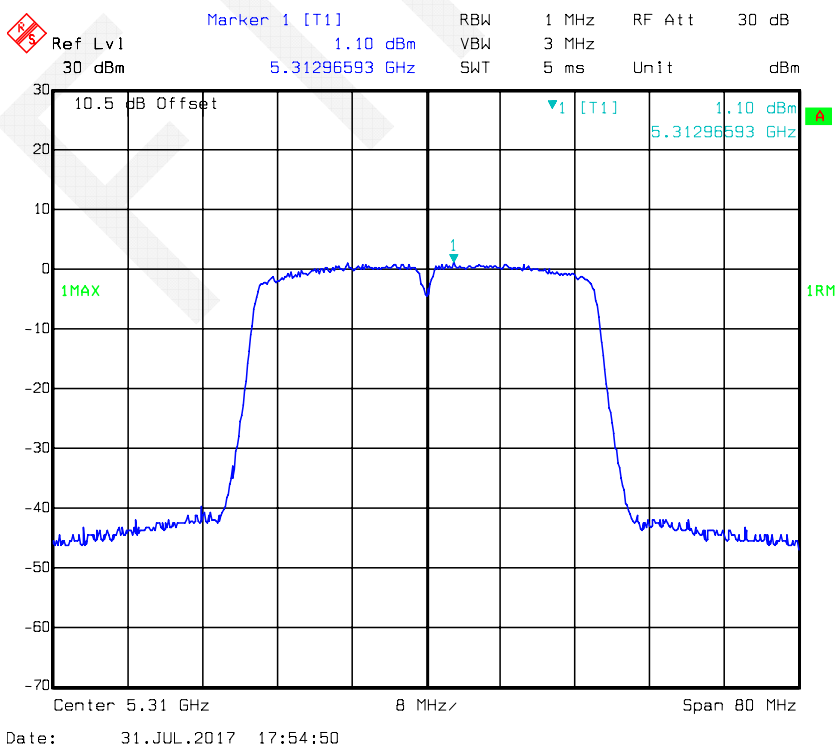
### 802.11n-HT40 mode, Power Spectral Density-5310 MHz, Antenna 0



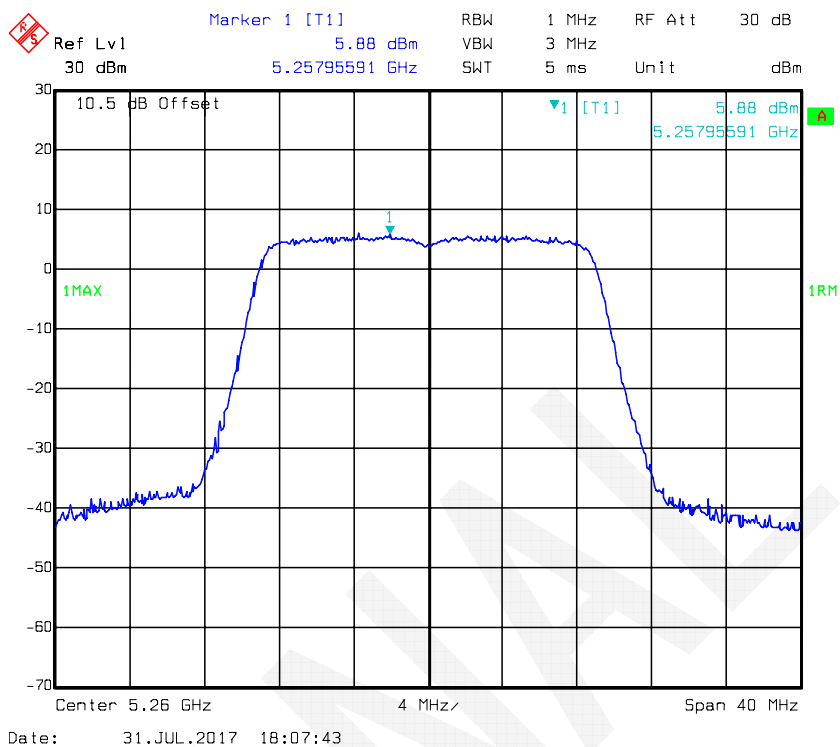
### 802.11n-HT40 mode, Power Spectral Density-5270 MHz, Antenna 1



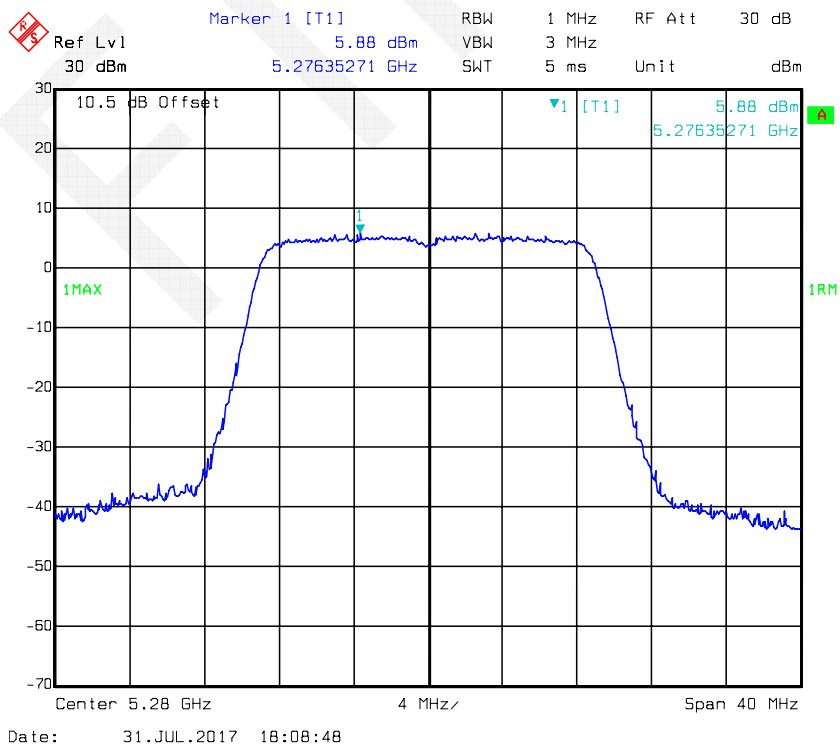
### 802.11n-HT40 mode, Power Spectral Density-5310 MHz, Antenna 1



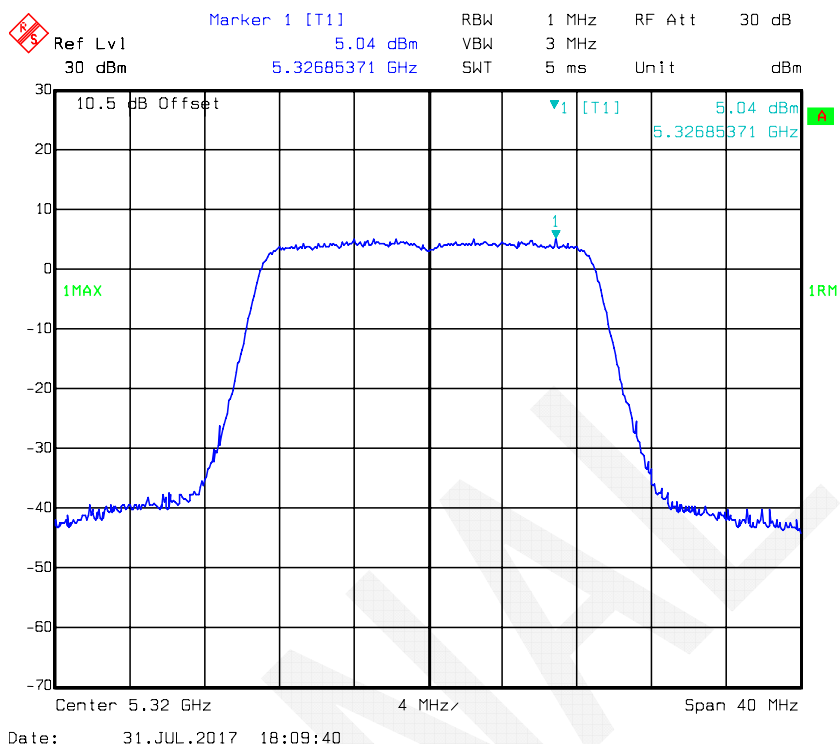
### 802.11ac20 mode, Power Spectral Density-5260 MHz, Antenna 0



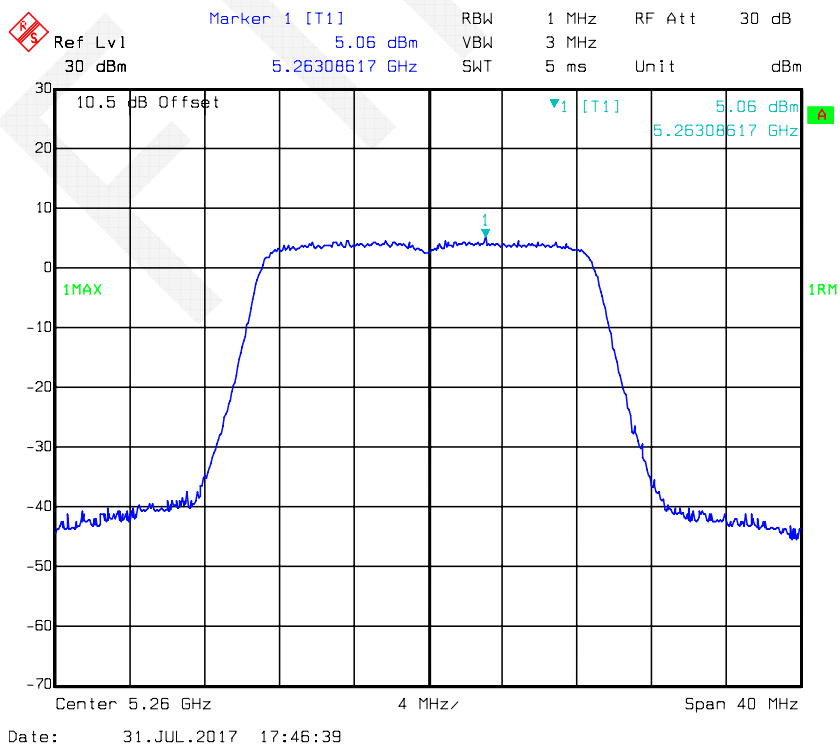
### 802.11ac20 mode, Power Spectral Density-5280 MHz, Antenna 0



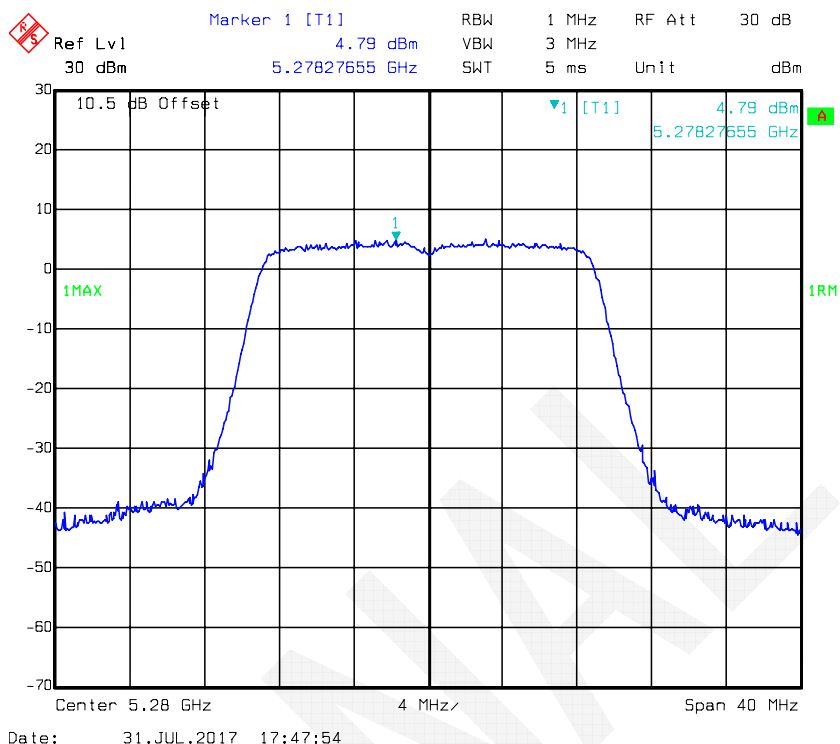
### 802.11ac20 mode, Power Spectral Density-5320 MHz, Antenna 0



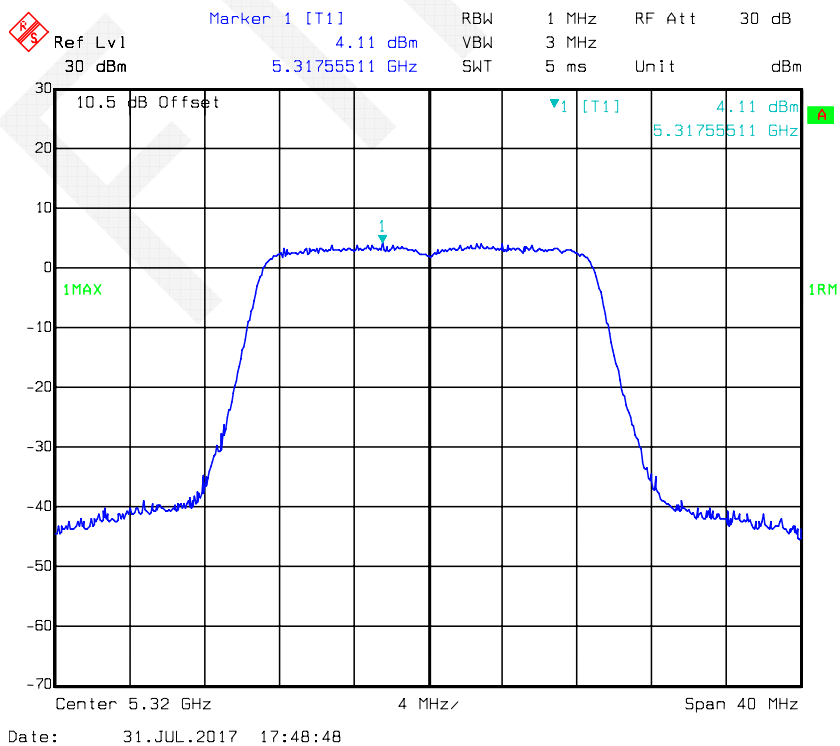
### 802.11ac20 mode, Power Spectral Density-5260 MHz, Antenna 1



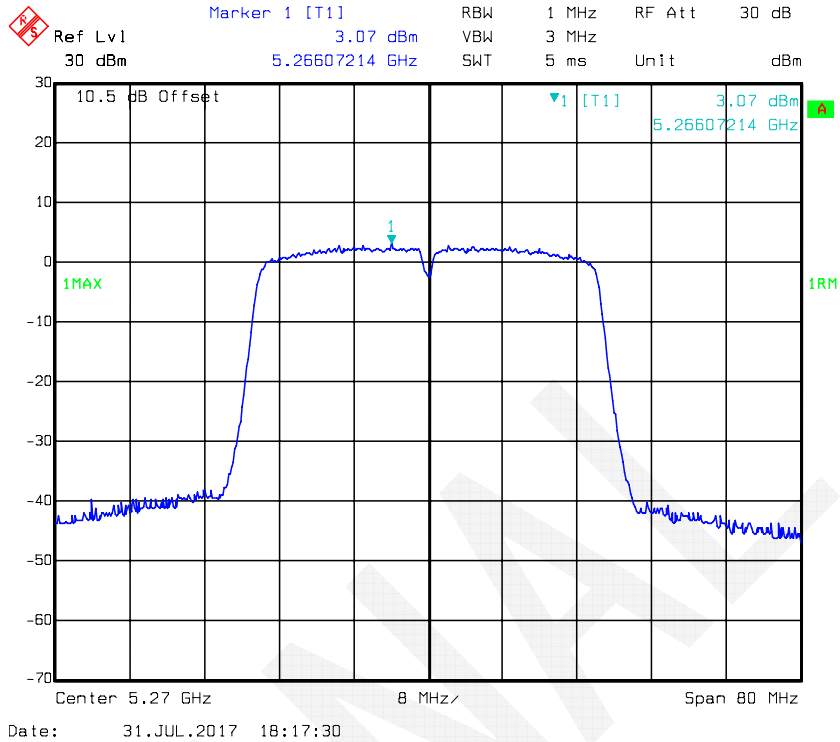
### 802.11ac20 mode, Power Spectral Density-5280 MHz, Antenna 1



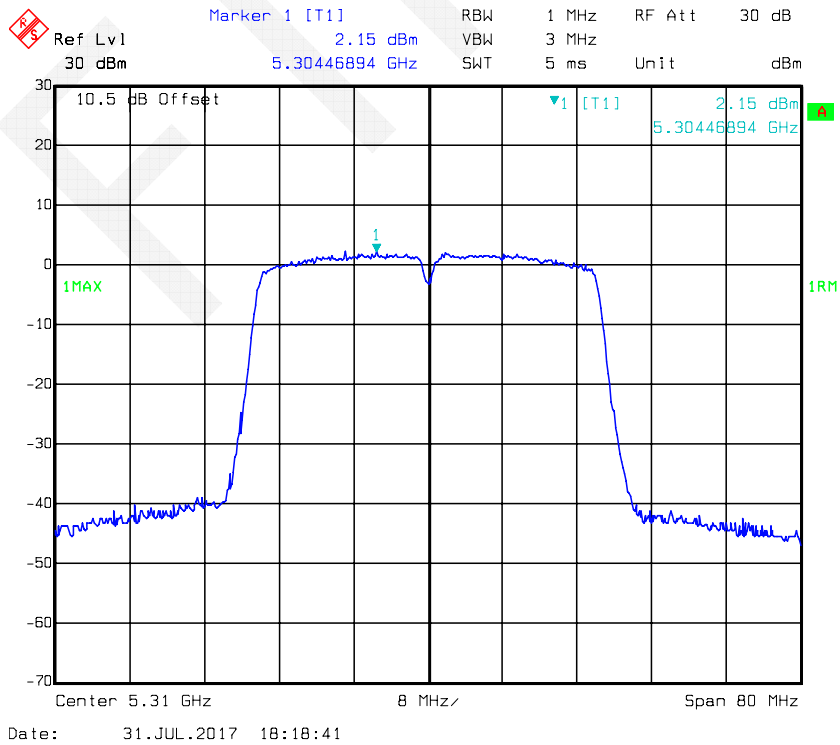
### 802.11ac20 mode, Power Spectral Density-5320 MHz, Antenna 1



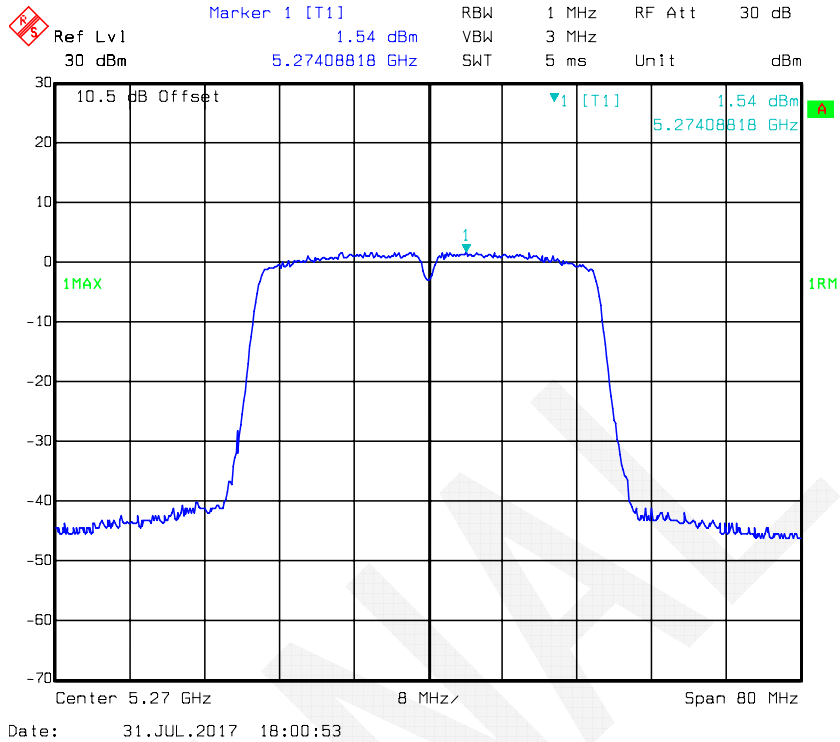
### 802.11ac40 mode, Power Spectral Density-5270 MHz, Antenna 0



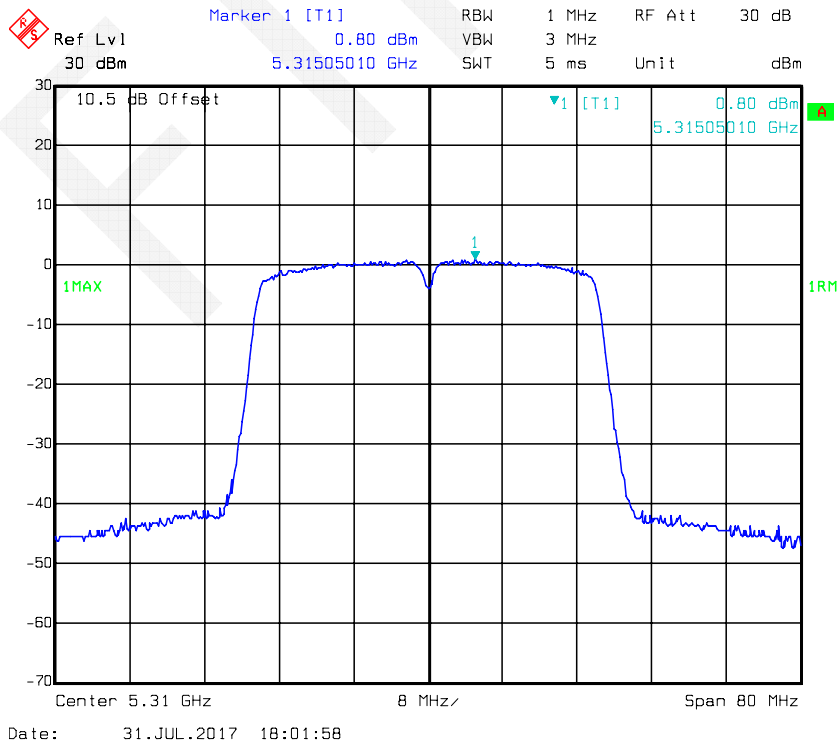
### 802.11ac40 mode, Power Spectral Density-5310 MHz, Antenna 0



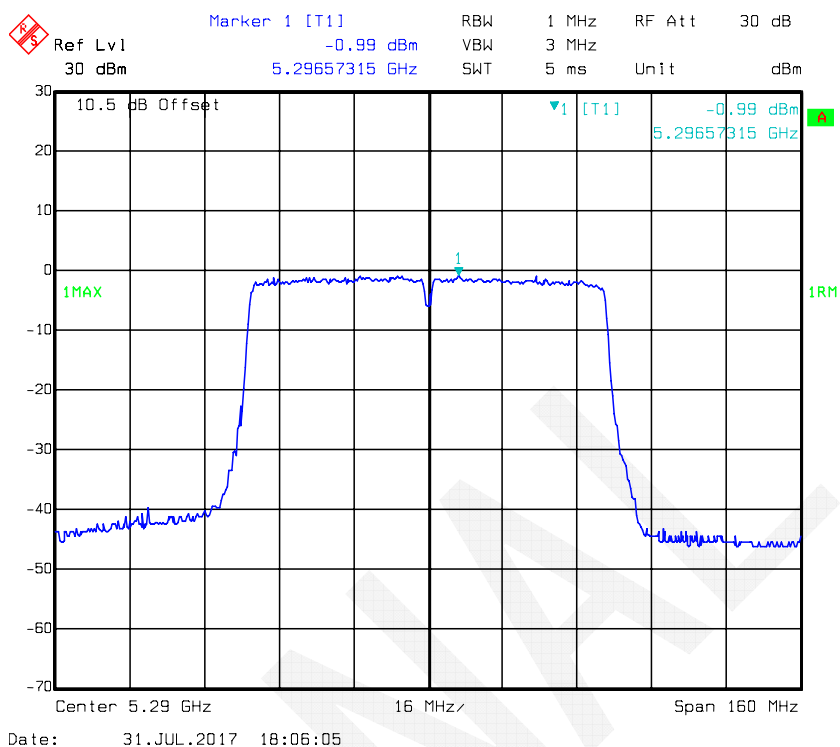
### 802.11ac40 mode, Power Spectral Density-5270 MHz, Antenna 1



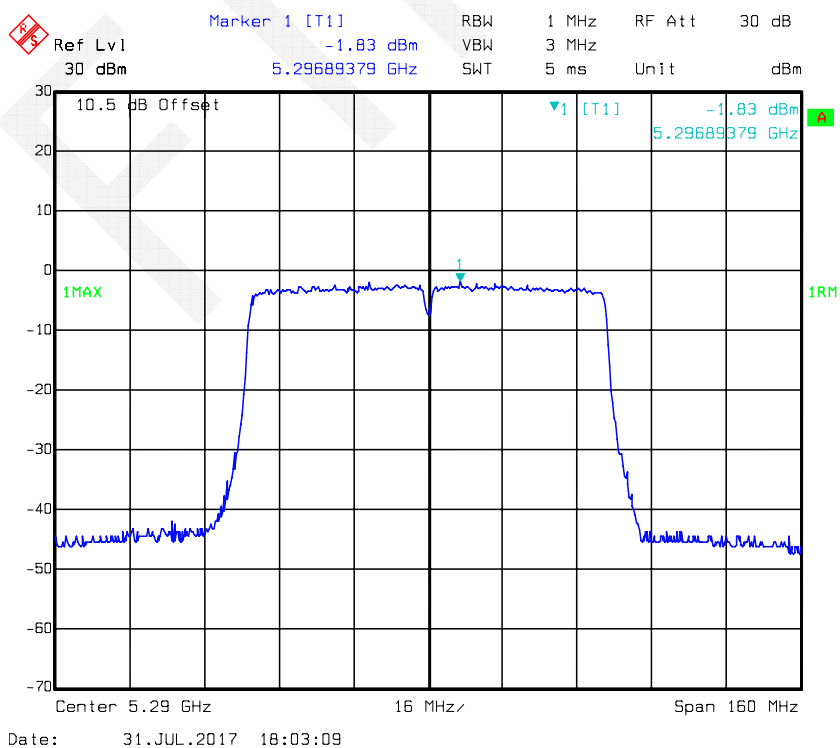
### 802.11ac40 mode, Power Spectral Density-5310 MHz, Antenna 1



### 802.11ac80 mode, Power Spectral Density-5290 MHz, Antenna 0



### 802.11ac80 mode, Power Spectral Density-5290 MHz, Antenna 1



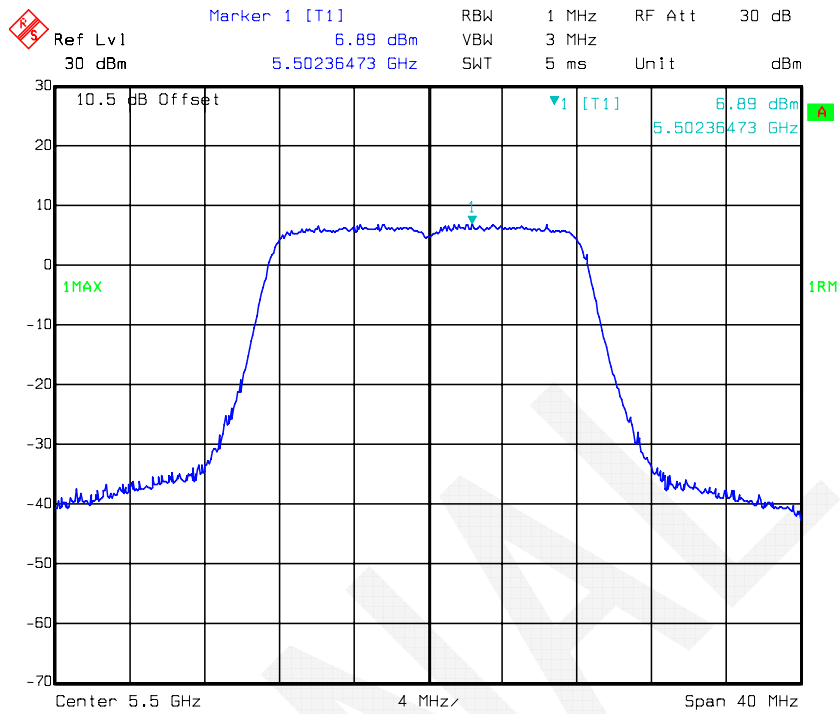


**For 5470-5725 MHz:**

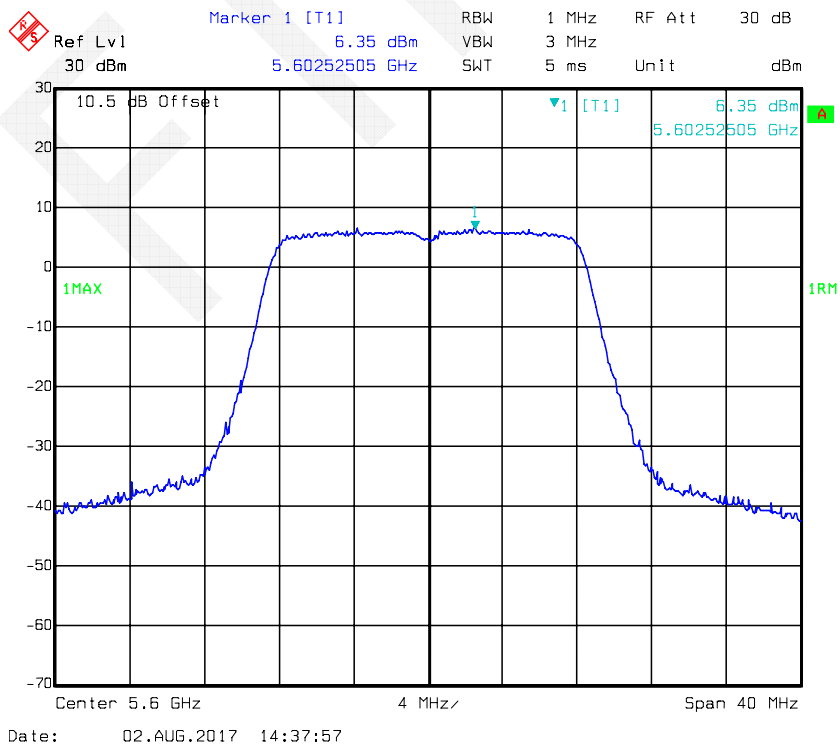
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)
			Antenna 0	Antenna 1		
802.11a	Low	5500	6.89	6.97	9.94	11
	Middle	5600	6.35	7.46	9.95	11
	High	5700	5.27	7.38	9.46	11
	Crossed	5720	6.58	8.06	10.39	11
802.11n-HT20	Low	5500	6.31	6.22	9.28	11
	Middle	5600	6.06	7.35	9.76	11
	High	5700	5.15	7.02	9.2	11
	Crossed	5720	6.34	8.21	10.39	11
802.11n-HT40	Low	5510	2.8	2.65	5.74	11
	Middle	5590	1.75	2.78	5.31	11
	High	5670	0.41	2.7	4.71	11
	Crossed	5710	1.81	3.67	5.85	11
802.11ac20	Low	5500	6.62	6.05	9.35	11
	Middle	5600	6.57	7.35	9.99	11
	High	5700	5.09	6.95	9.13	11
	Crossed	5720	6.2	7.09	9.68	11
802.11ac40	Low	5510	3.02	3.07	6.06	11
	Middle	5590	1.93	3.15	5.59	11
	High	5670	0.56	2.99	4.95	11
	Crossed	5710	1.96	4.17	6.21	11
802.11ac80	Low	5530	-0.89	-0.72	2.21	11
	High	5610	-1.74	-0.84	1.74	11
	Crossed	5690	-0.79	-0.36	2.44	11

Note: for cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirement of 5725-5850.

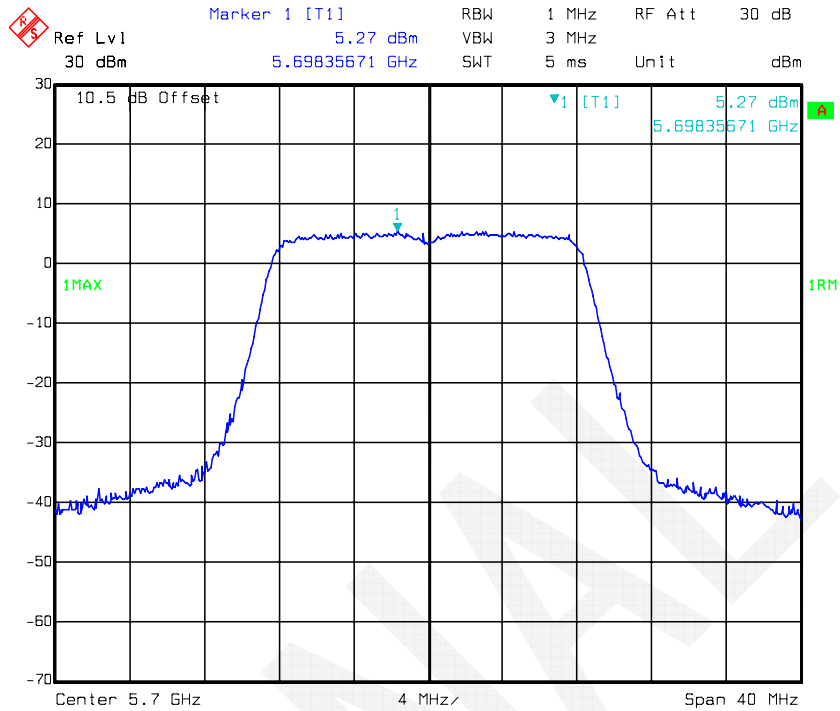
### 802.11a mode, Power Spectral Density-5500 MHz, Antenna 0



### 802.11a mode, Power Spectral Density-5600 MHz, Antenna 0

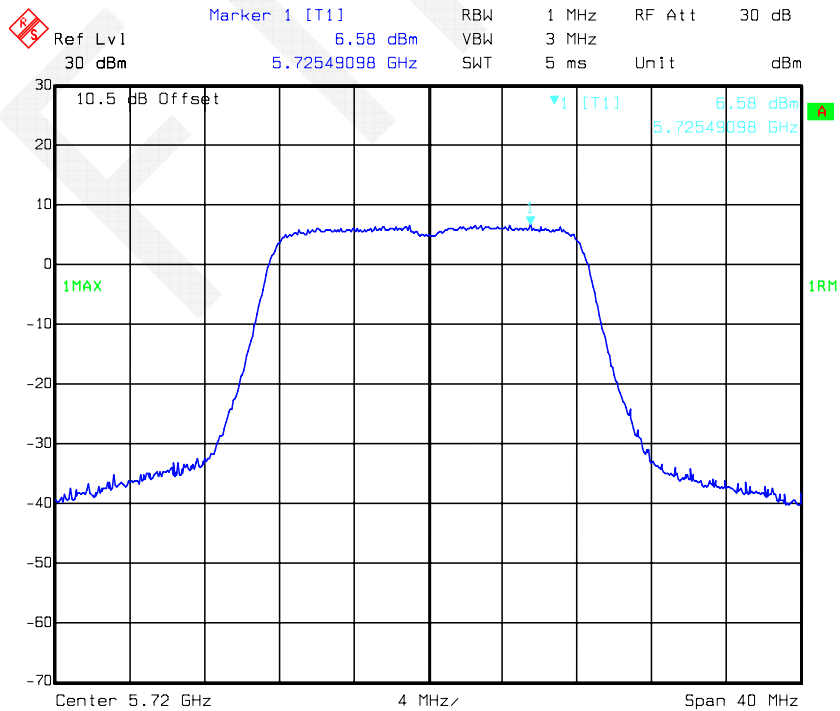


### 802.11a mode, Power Spectral Density-5700 MHz, Antenna 0



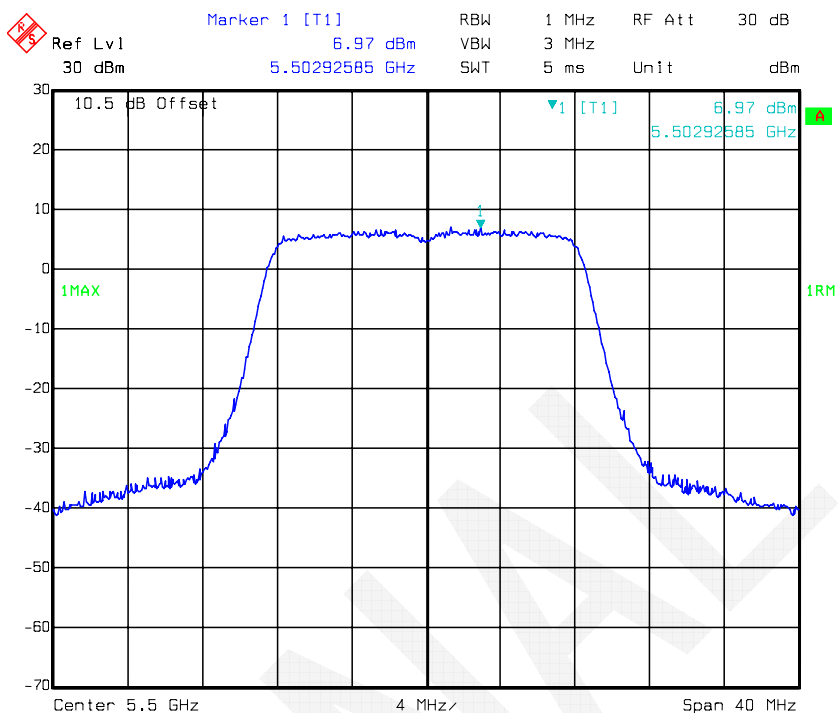
Date: 02.AUG.2017 14:10:29

### 802.11a mode, Power Spectral Density-5720 MHz, Antenna 0

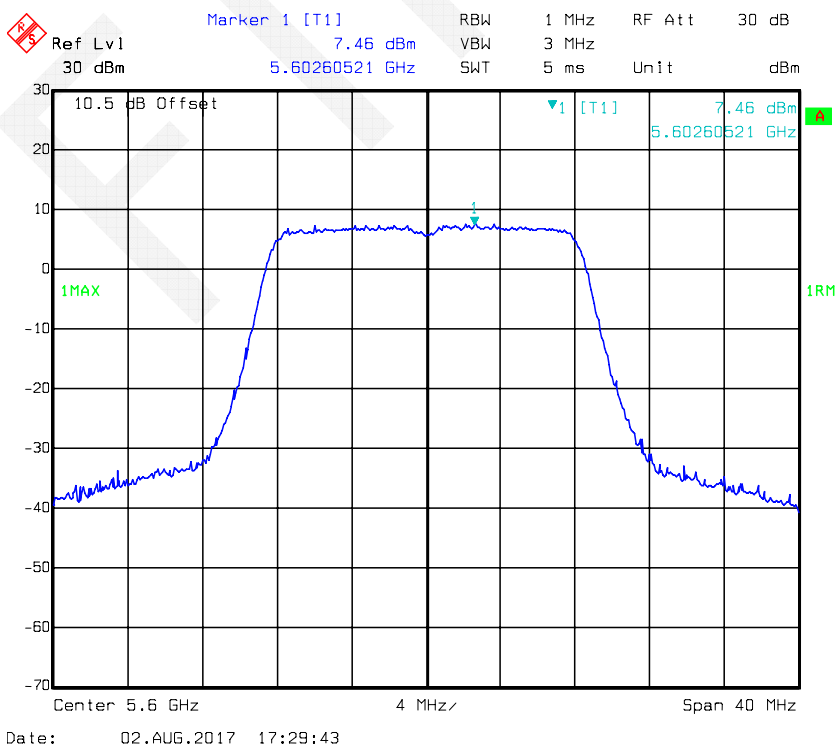


Date: 02.AUG.2017 14:33:03

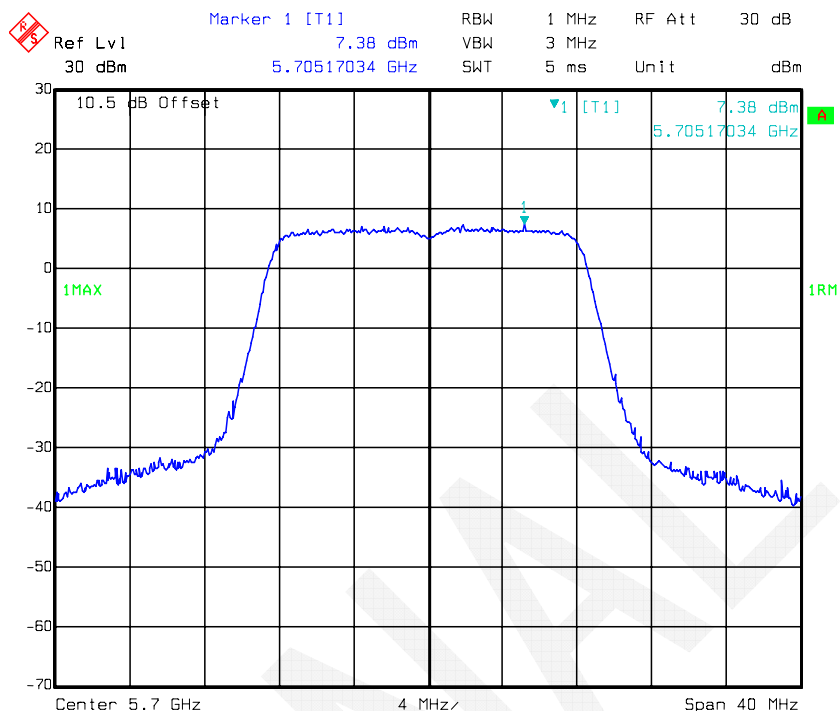
### 802.11a mode, Power Spectral Density-5500 MHz, Antenna 1



### 802.11a mode, Power Spectral Density-5600 MHz, Antenna 1

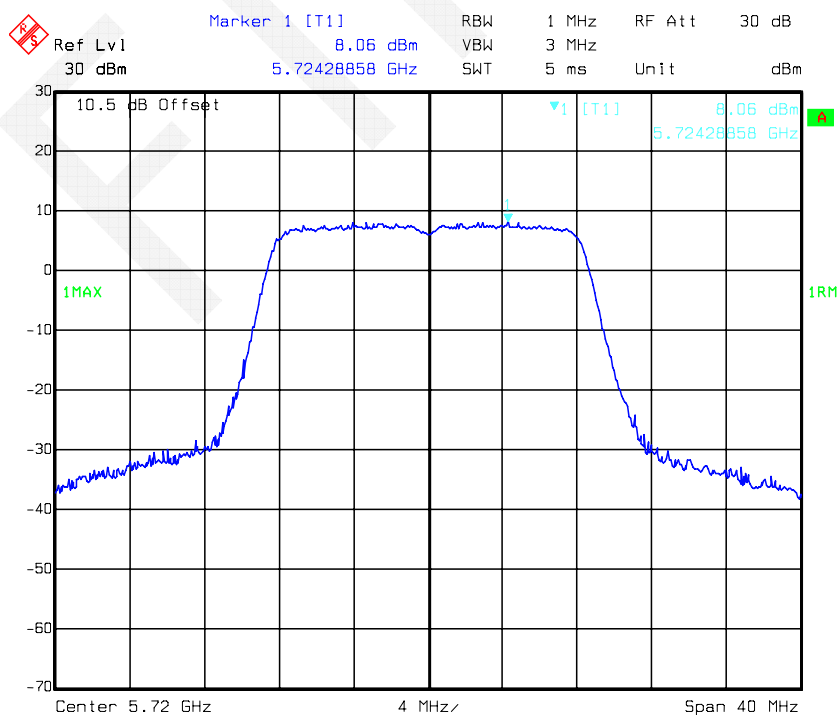


### 802.11a mode, Power Spectral Density-5700 MHz, Antenna 1



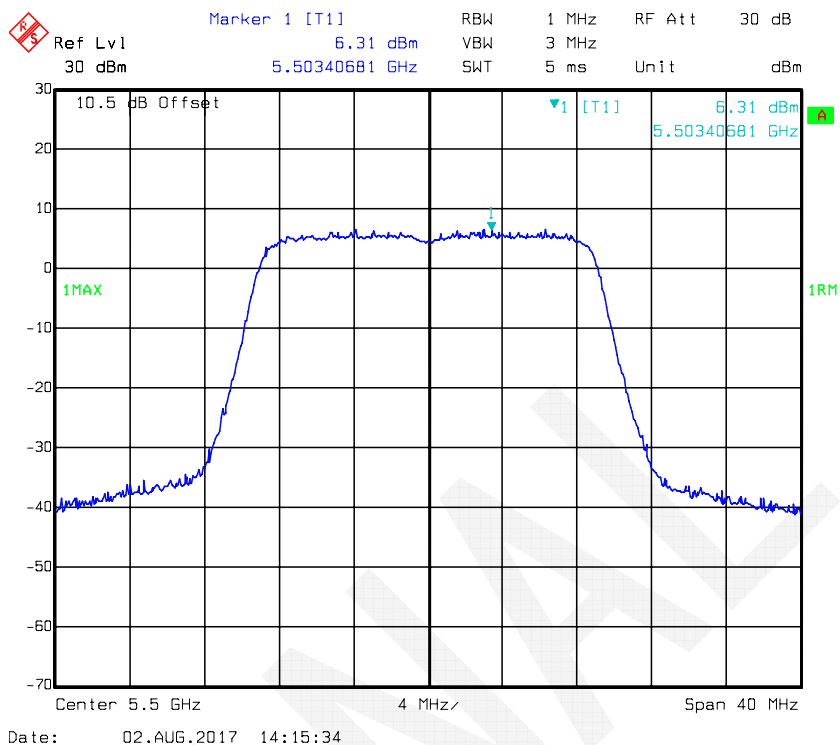
Date: 02.AUG.2017 15:35:23

### 802.11a mode, Power Spectral Density-5720 MHz, Antenna 1

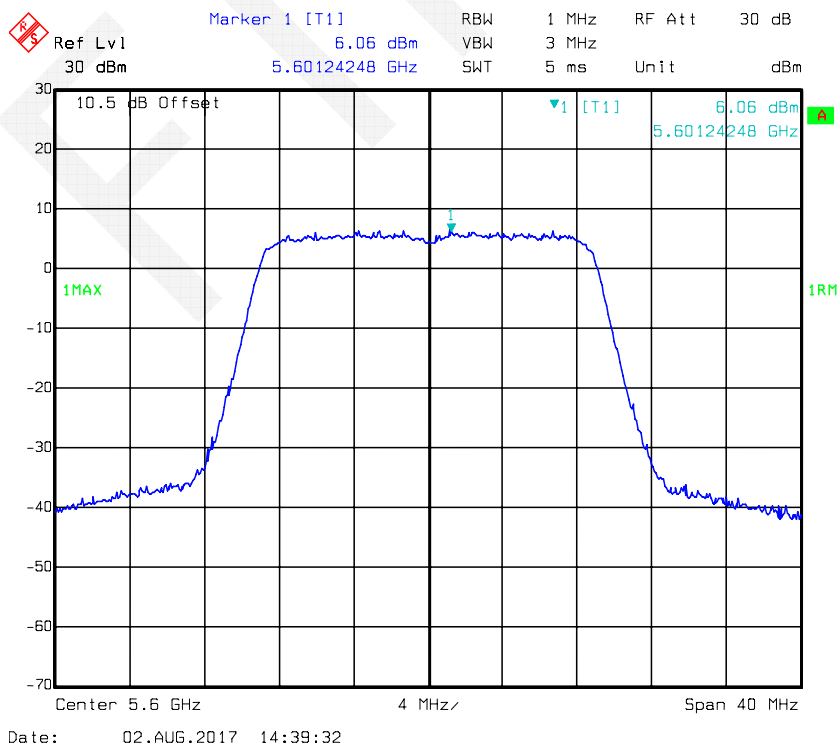


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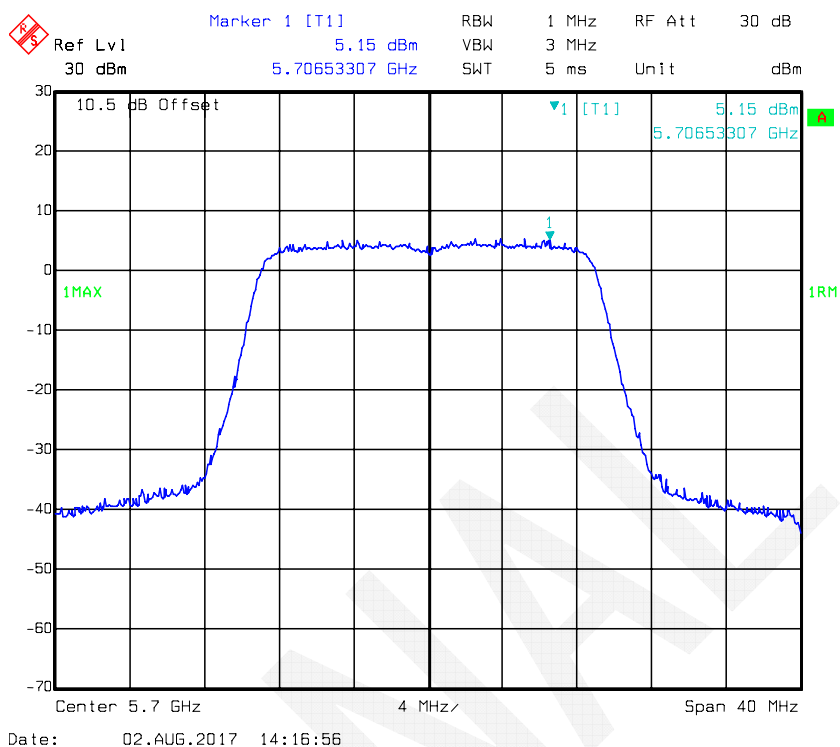
### 802.11n-HT20 mode, Power Spectral Density-5500 MHz, Antenna 0



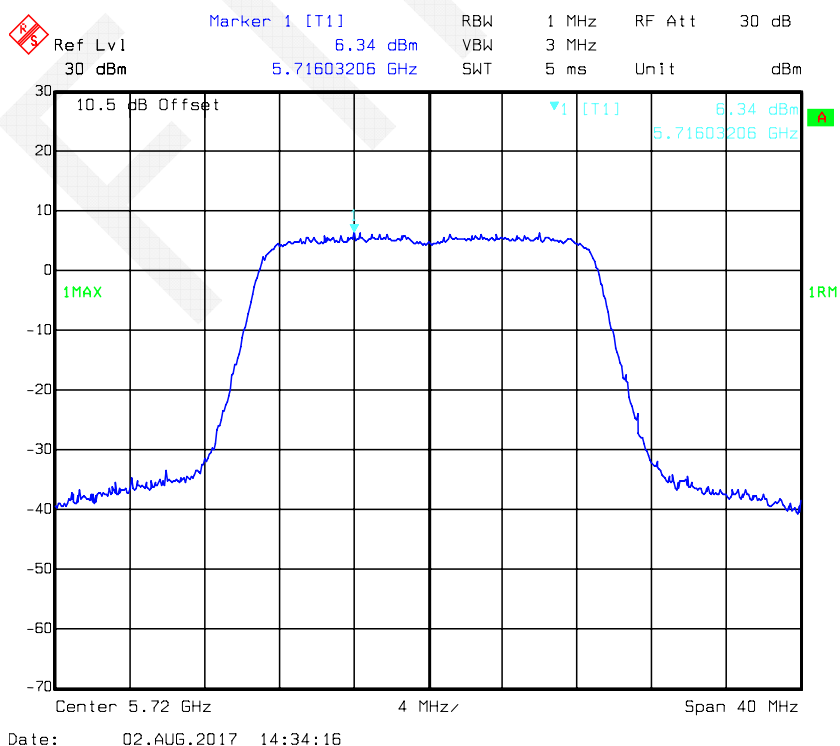
### 802.11n-HT20 mode, Power Spectral Density-5600 MHz, Antenna 0



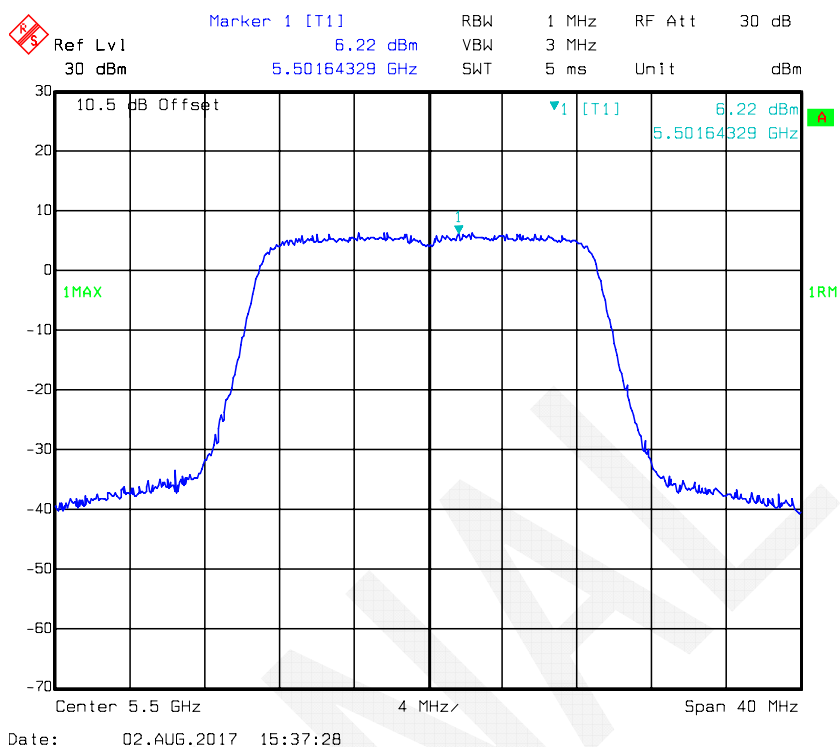
### 802.11n-HT20 mode, Power Spectral Density-5700 MHz, Antenna 0



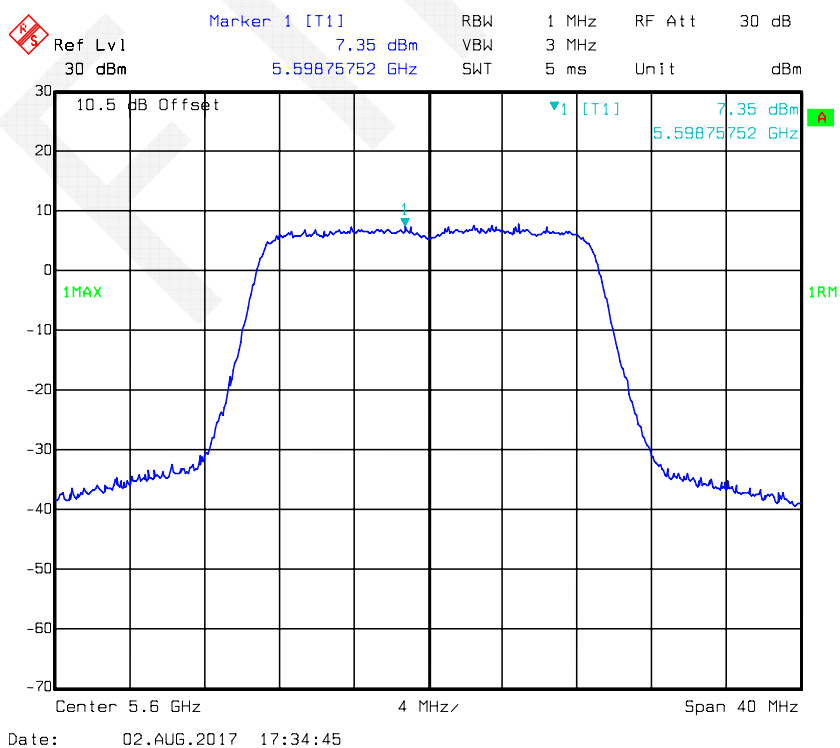
### 802.11n-HT20 mode, Power Spectral Density-5720 MHz, Antenna 0



### 802.11n-HT20 mode, Power Spectral Density-5500 MHz, Antenna 1

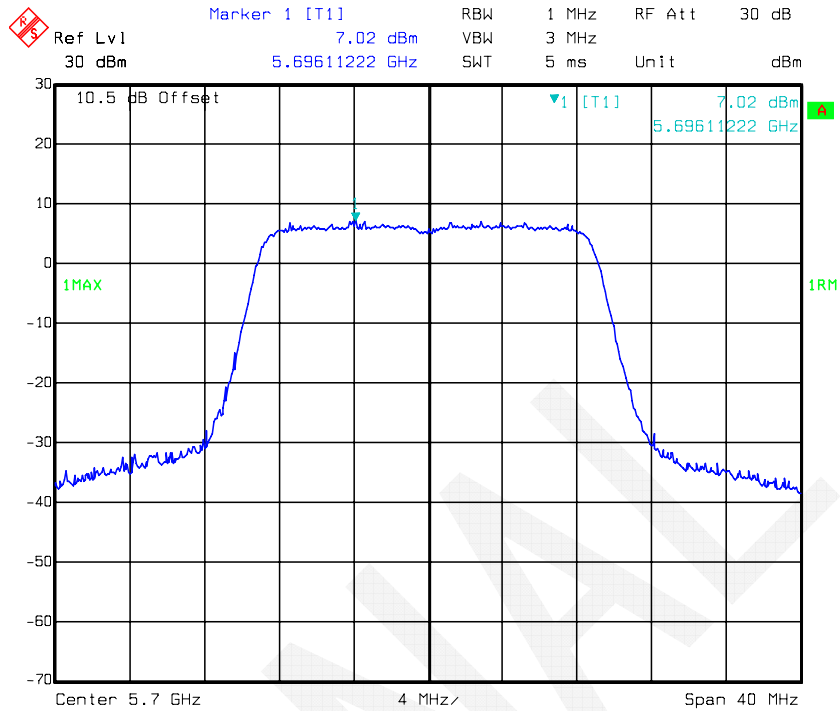


### 802.11n-HT20 mode, Power Spectral Density-5600 MHz, Antenna 1

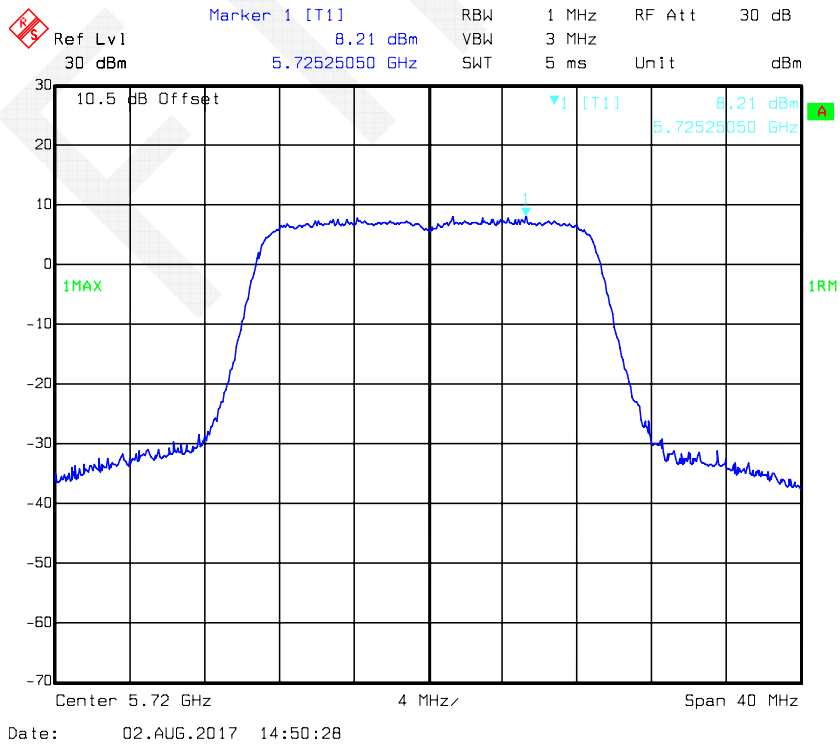




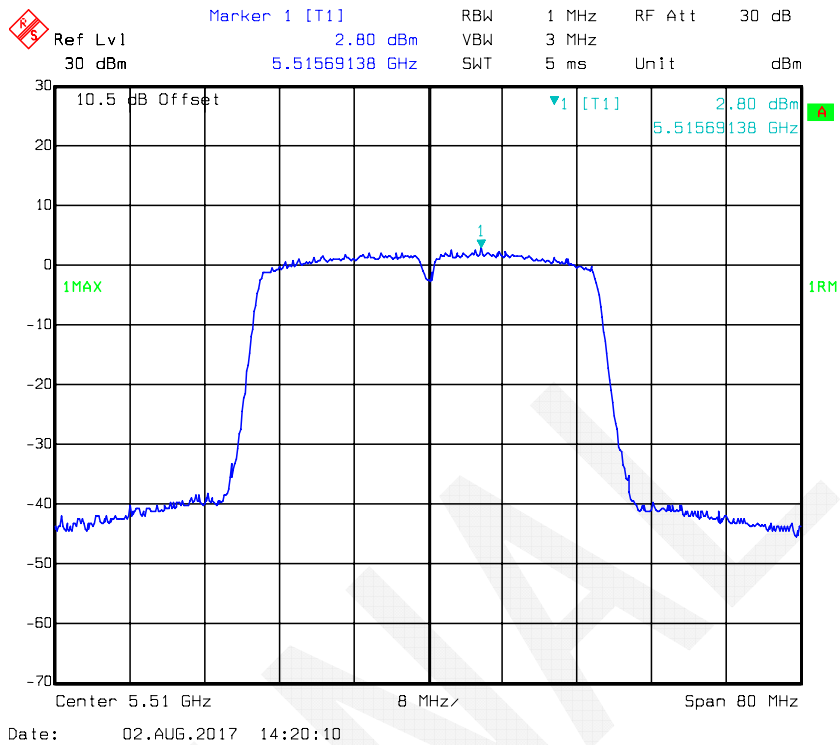
802.11n-HT20 mode, Power Spectral Density-5700 MHz, Antenna 1



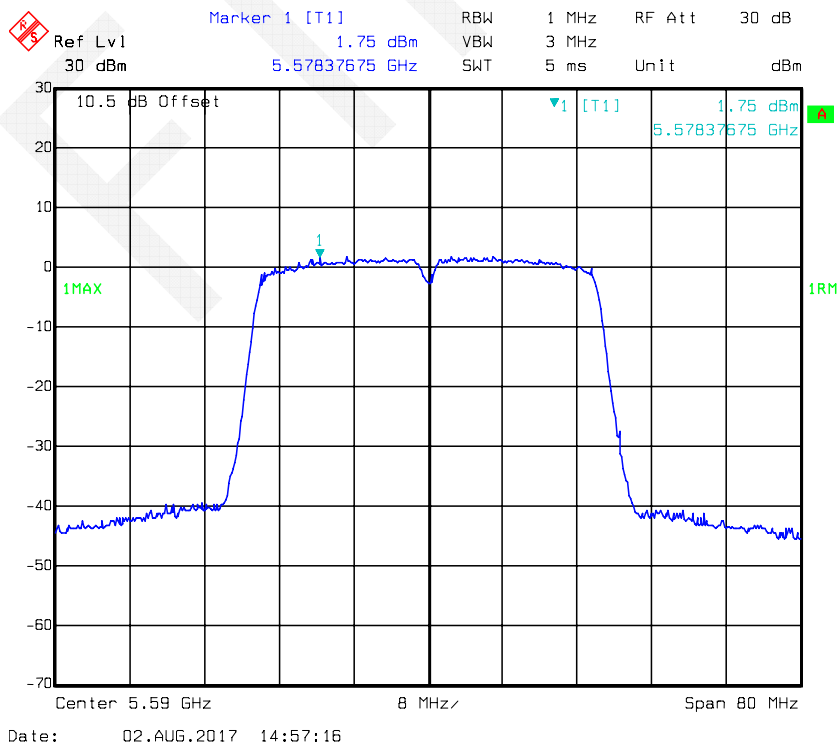
802.11n-HT20 mode, Power Spectral Density-5720 MHz, Antenna 1



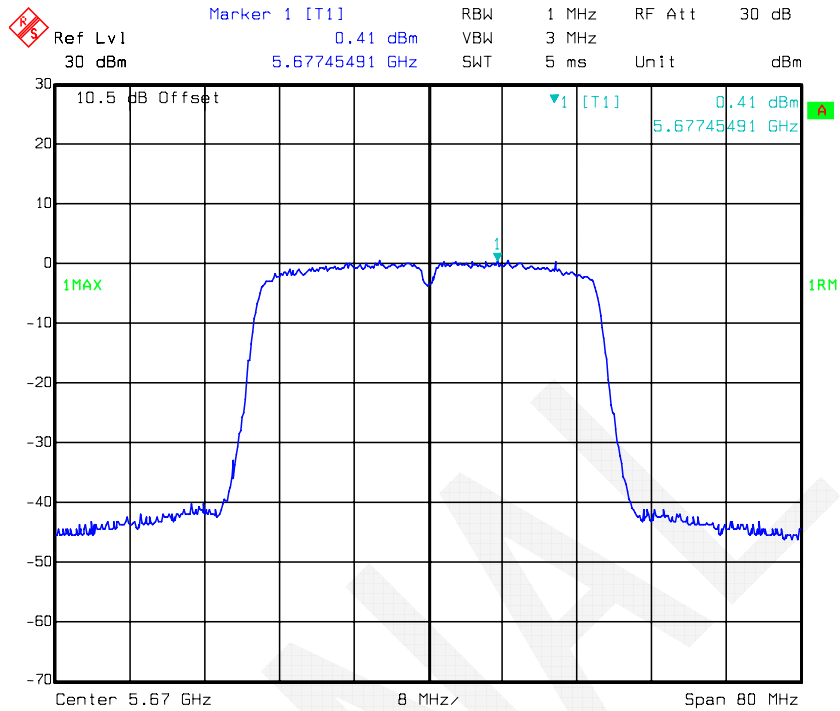
### 802.11n-HT40 mode, Power Spectral Density-5510 MHz, Antenna 0



### 802.11n-HT40 mode, Power Spectral Density-5590 MHz, Antenna 0

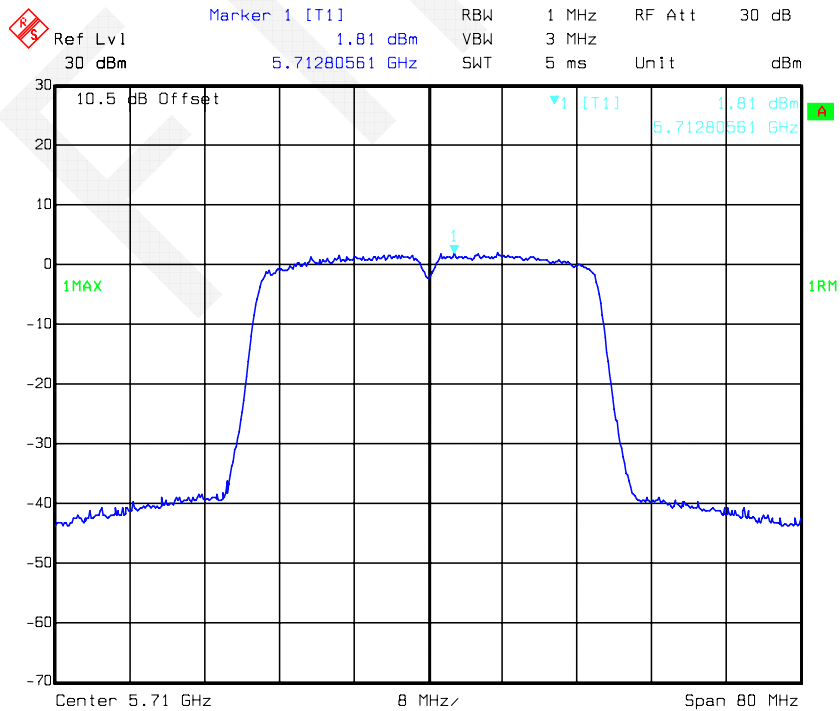


802.11n-HT40 mode, Power Spectral Density-5670 MHz, Antenna 0



Date: 02.AUG.2017 14:21:43

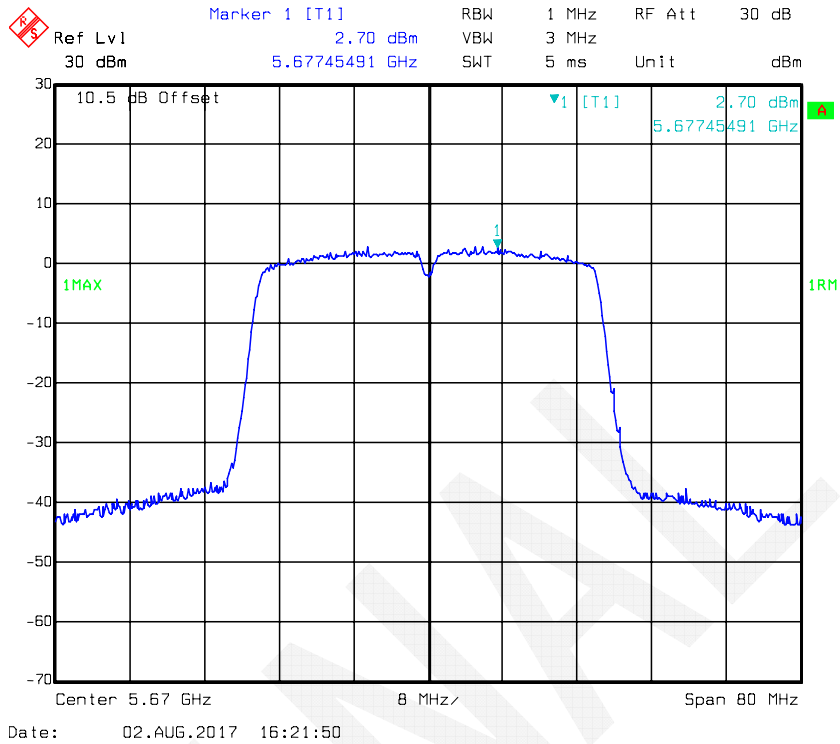
802.11n-HT40 mode, Power Spectral Density-5710 MHz, Antenna 0



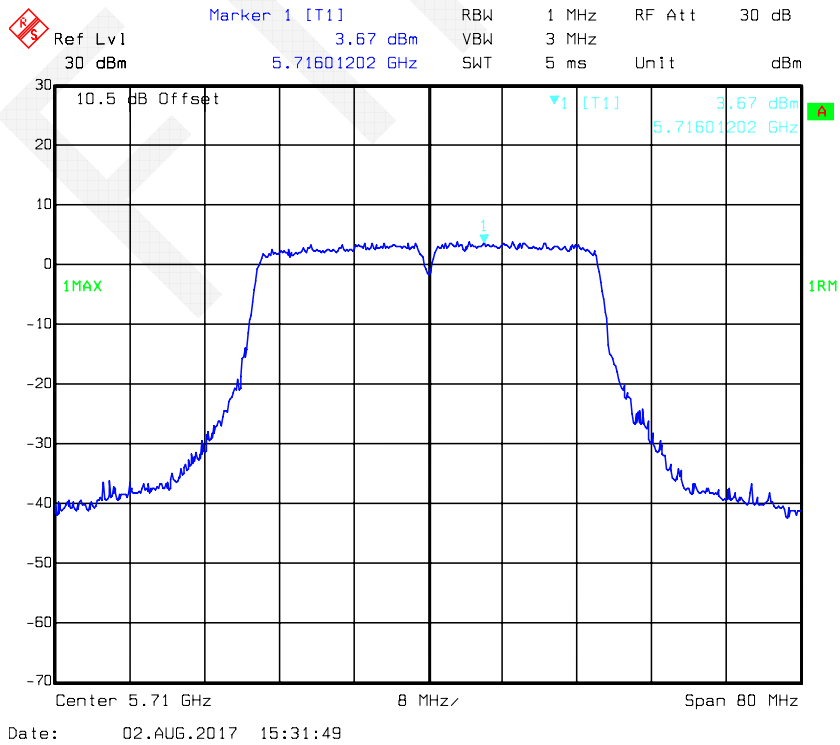
Date: 02.AUG.2017 14:31:28



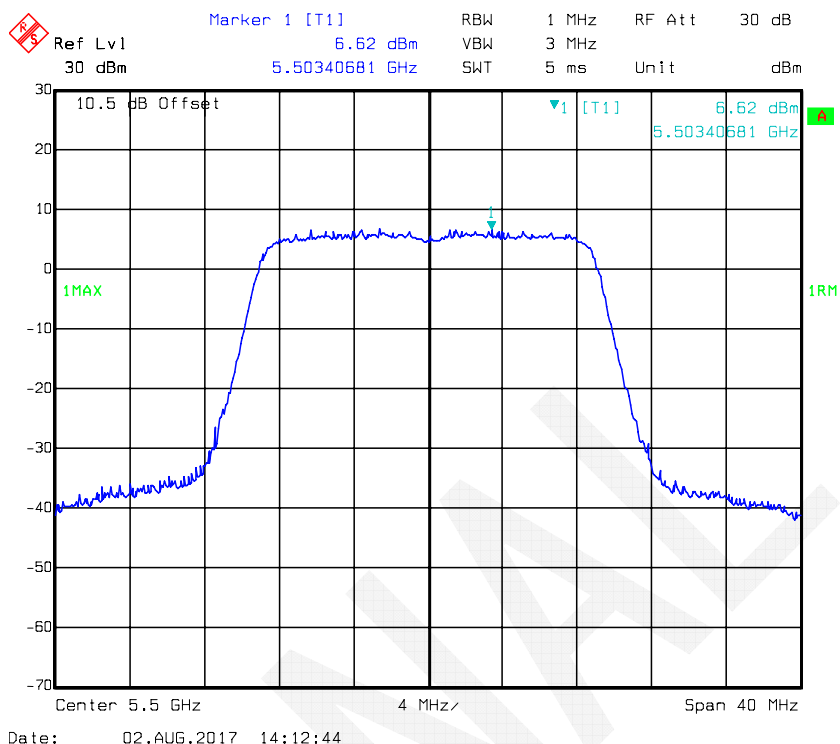
802.11n-HT40 mode, Power Spectral Density-5670 MHz, Antenna 1



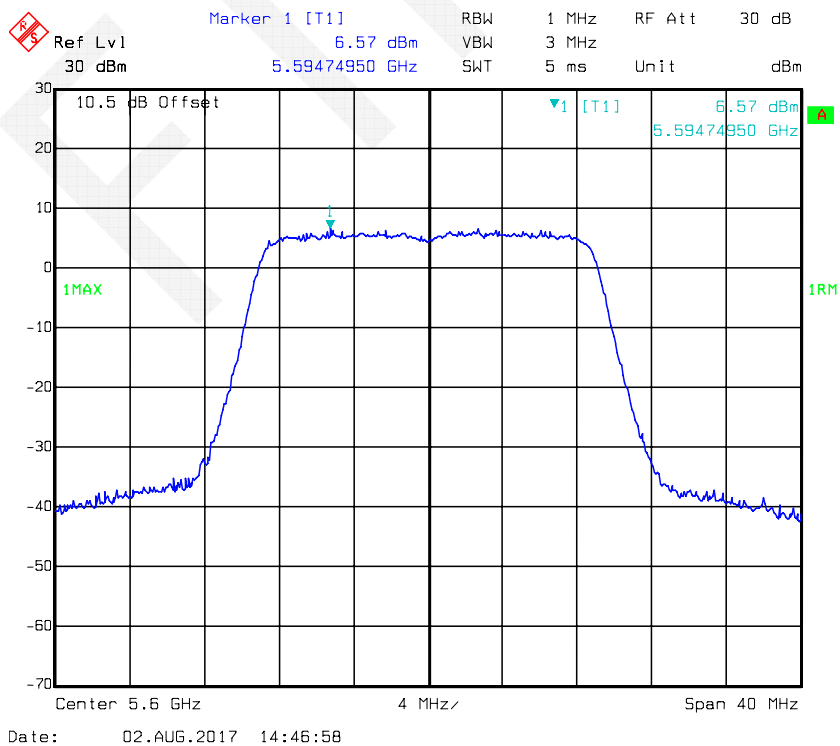
802.11n-HT40 mode, Power Spectral Density-5710 MHz, Antenna 1



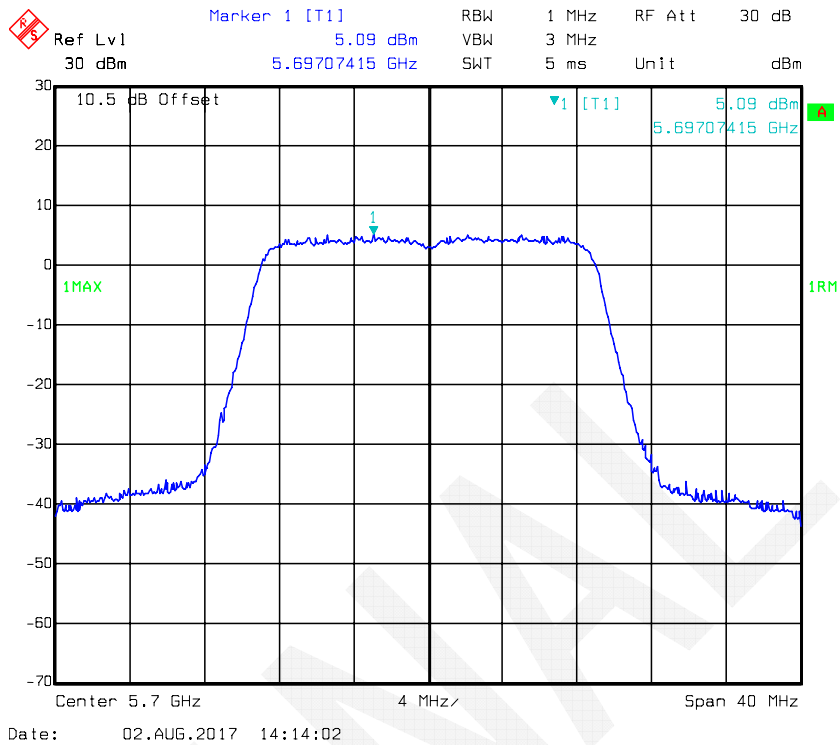
### 802.11ac20 mode, Power Spectral Density-5500 MHz, Antenna 0



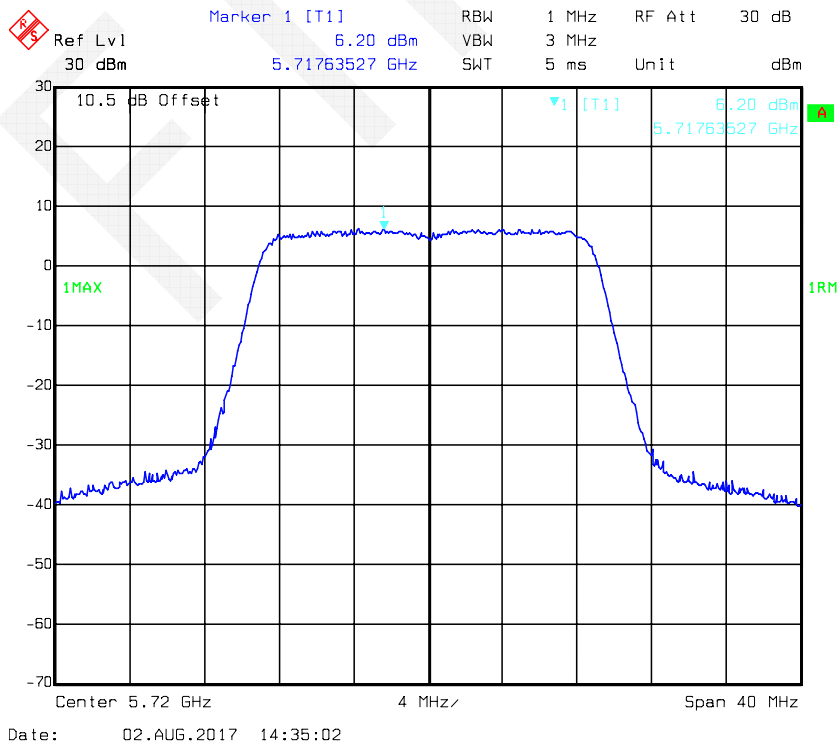
### 802.11ac20 mode, Power Spectral Density-5600 MHz, Antenna 0



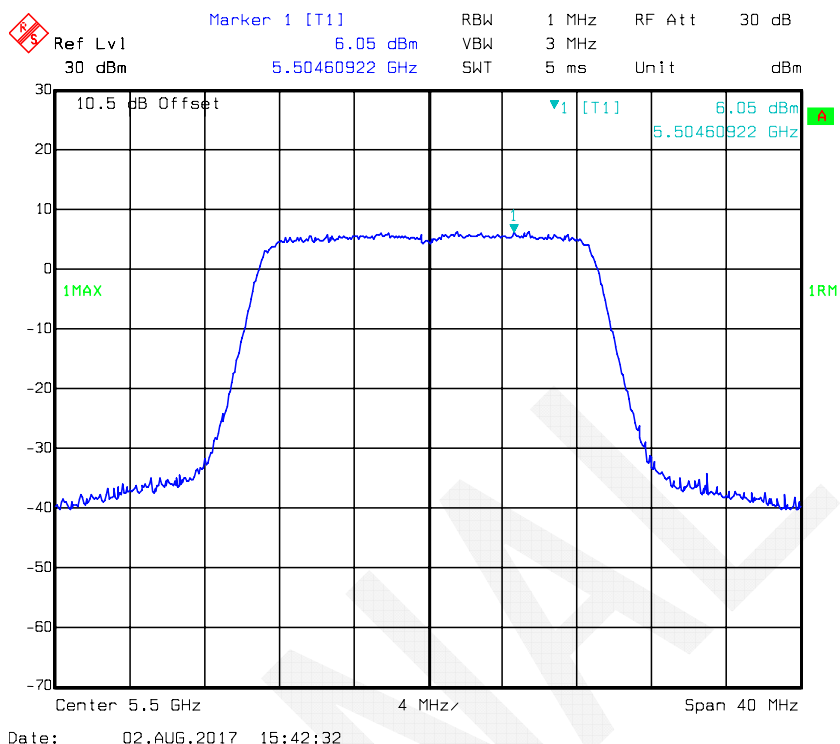
### 802.11ac20 mode, Power Spectral Density-5700 MHz, Antenna 0



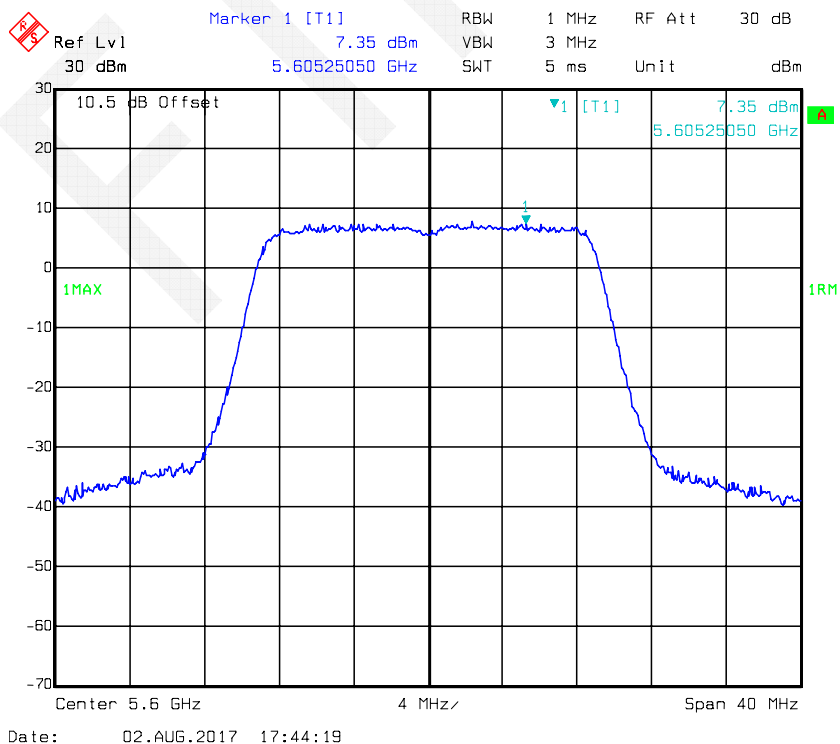
### 802.11ac20 mode, Power Spectral Density-5720 MHz, Antenna 0



### 802.11ac20 mode, Power Spectral Density-5500 MHz, Antenna 1

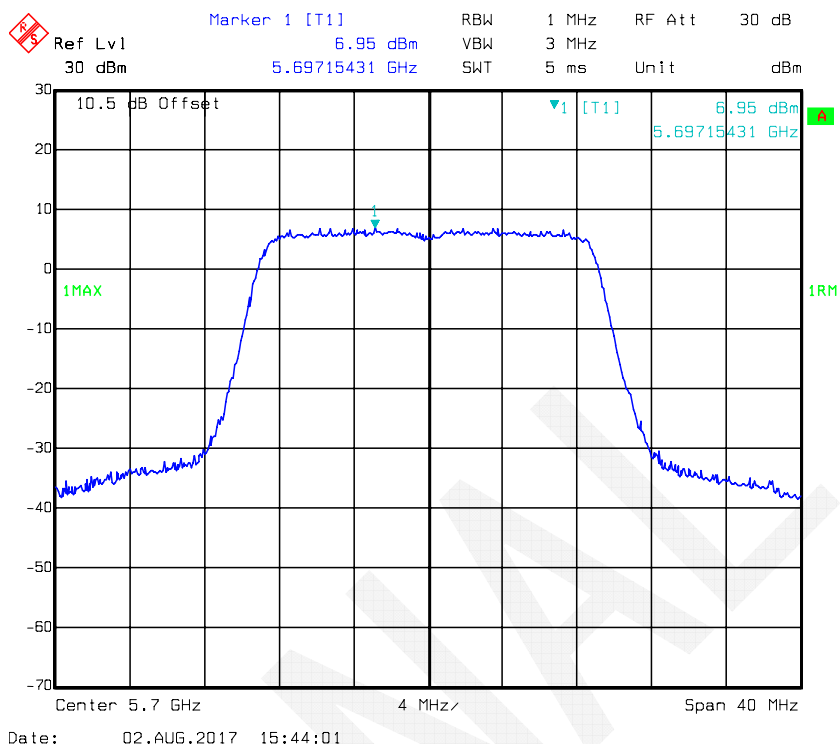


### 802.11ac20 mode, Power Spectral Density-5600 MHz, Antenna 1

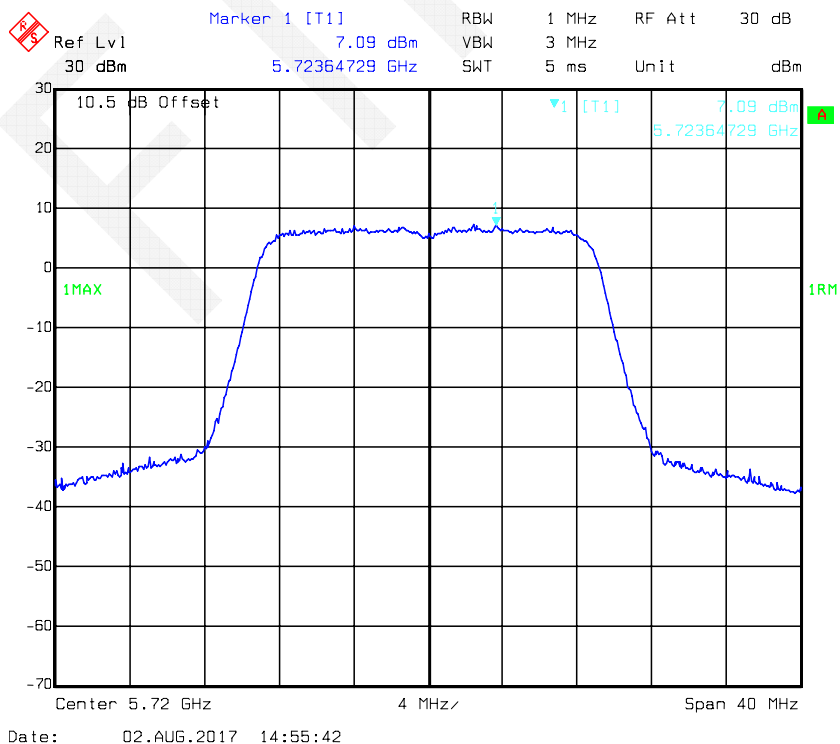




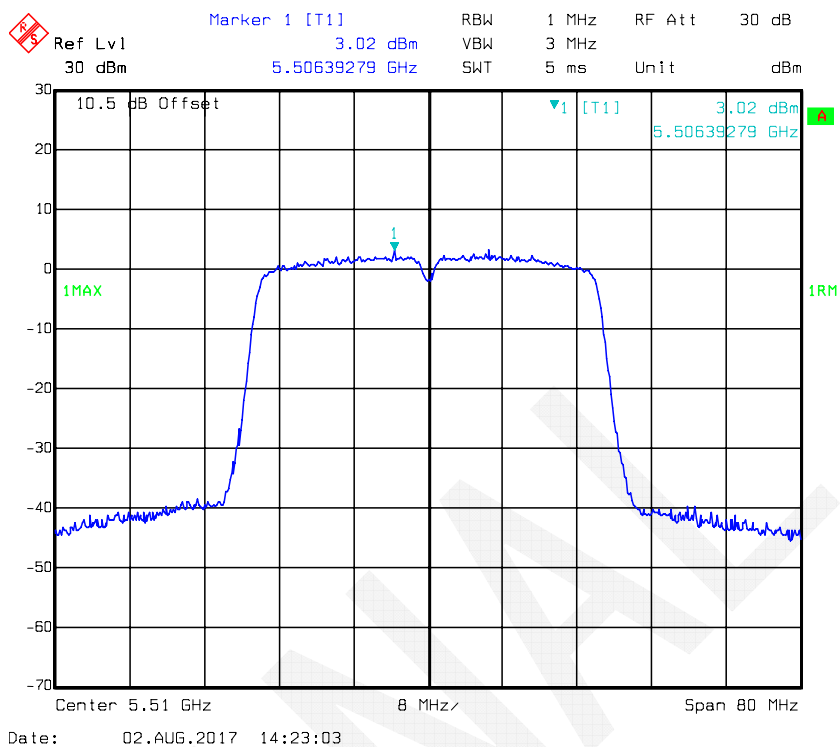
### 802.11ac20 mode, Power Spectral Density-5700 MHz, Antenna 1



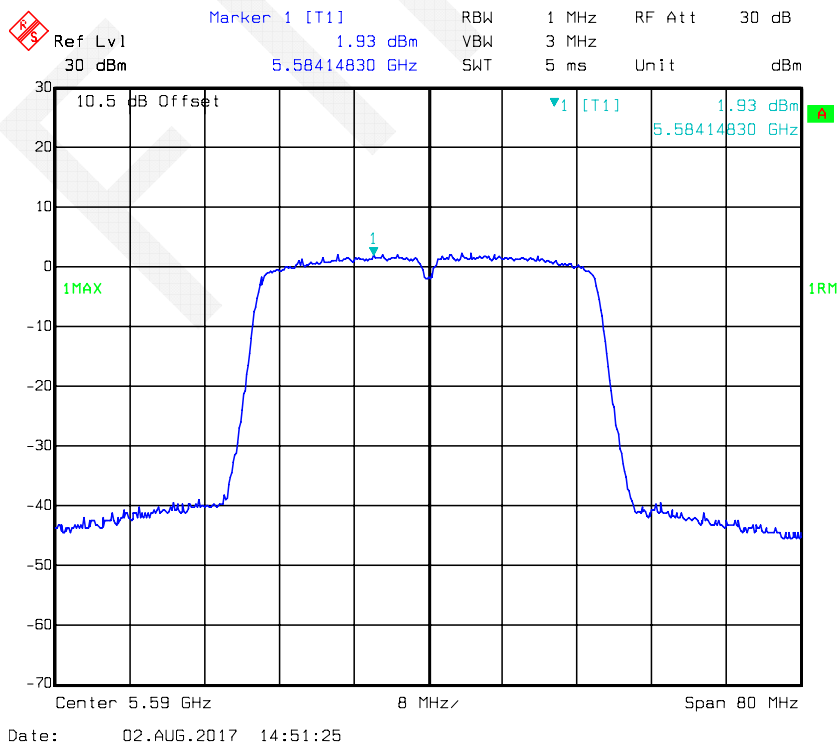
### 802.11ac20 mode, Power Spectral Density-5720 MHz, Antenna 1



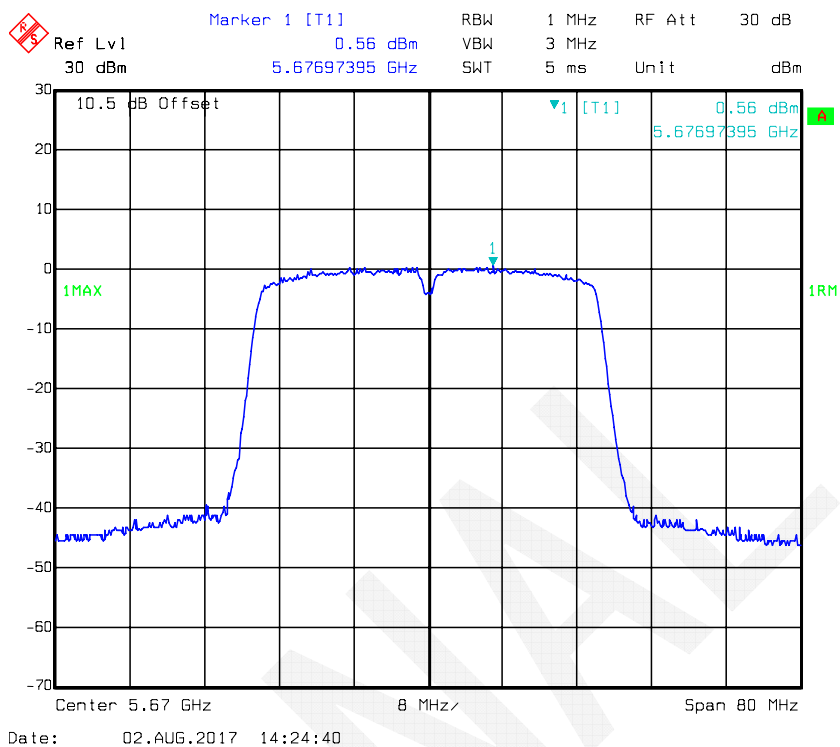
### 802.11ac40 mode, Power Spectral Density-5510 MHz, Antenna 0



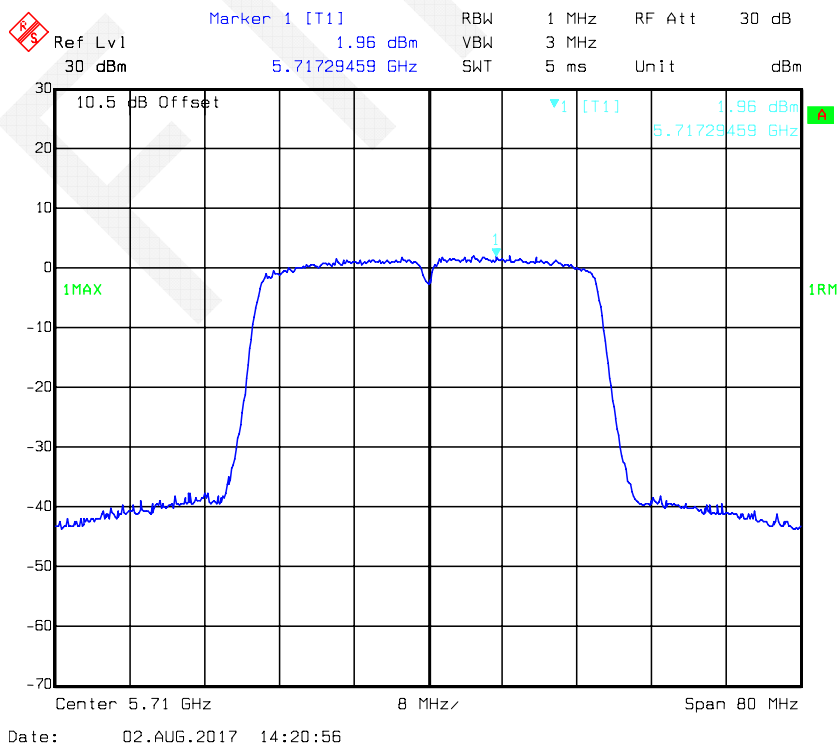
### 802.11ac40 mode, Power Spectral Density-5590 MHz, Antenna 0



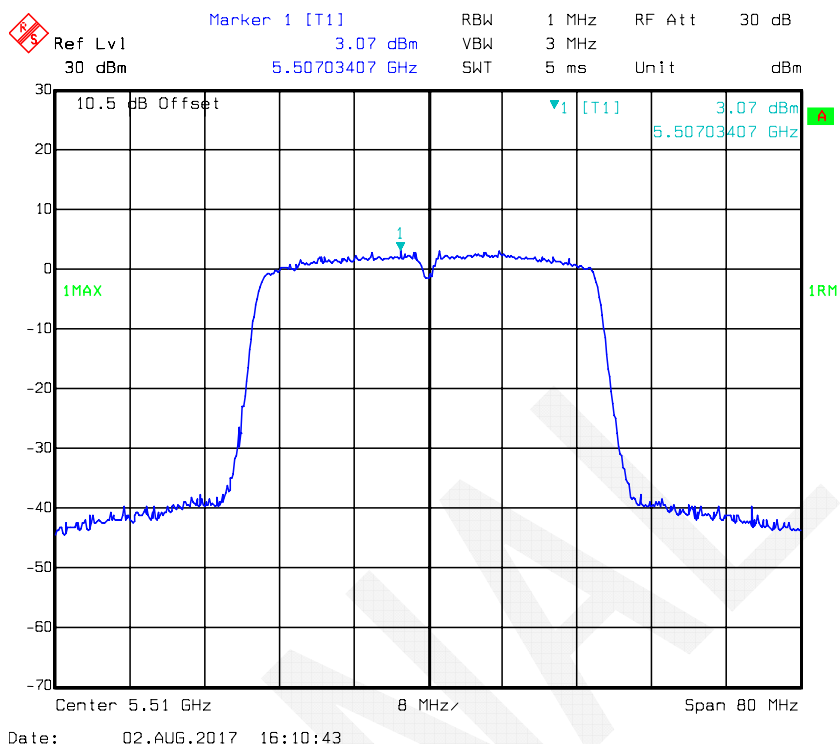
### 802.11ac40 mode, Power Spectral Density-5670 MHz, Antenna 0



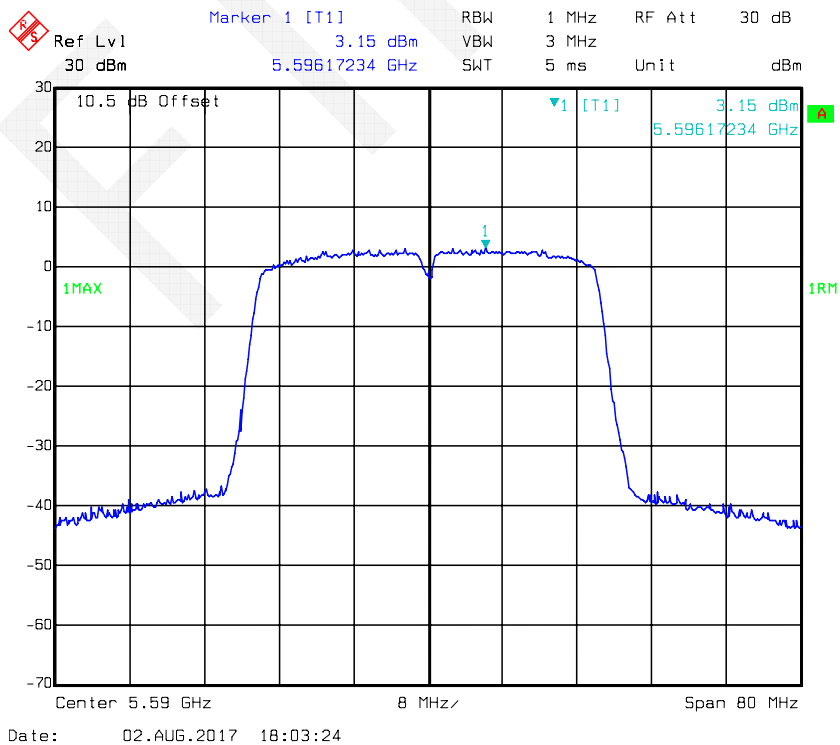
### 802.11ac40 mode, Power Spectral Density-5710 MHz, Antenna 0



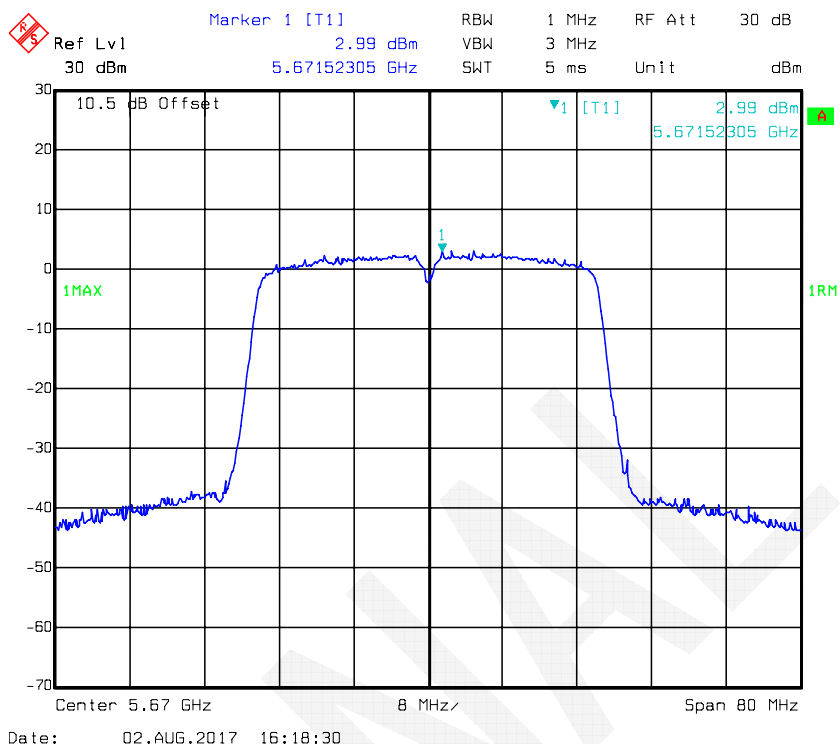
### 802.11ac40 mode, Power Spectral Density-5510 MHz, Antenna 1



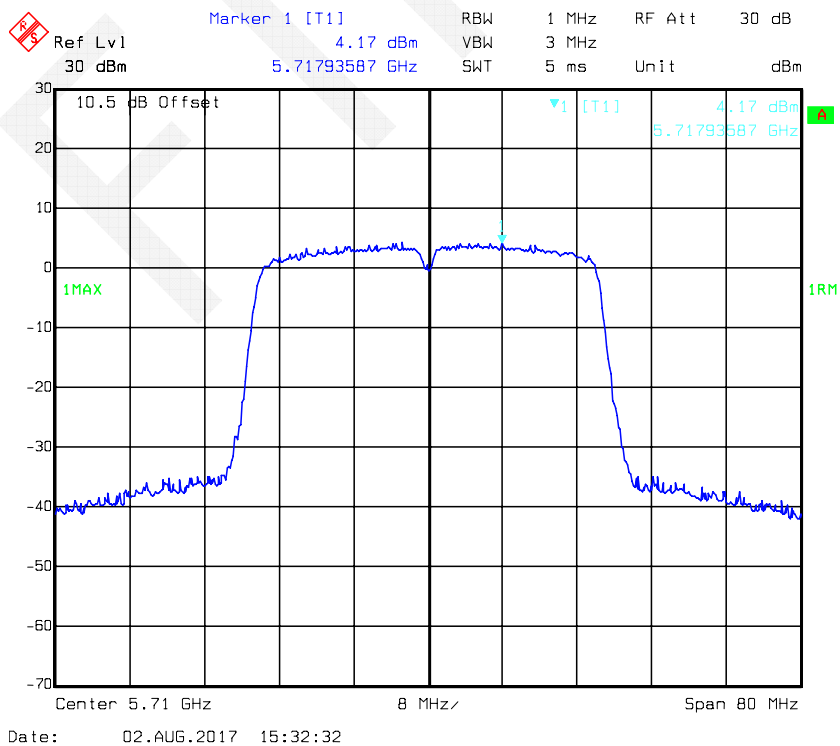
### 802.11ac40 mode, Power Spectral Density-5590 MHz, Antenna 1



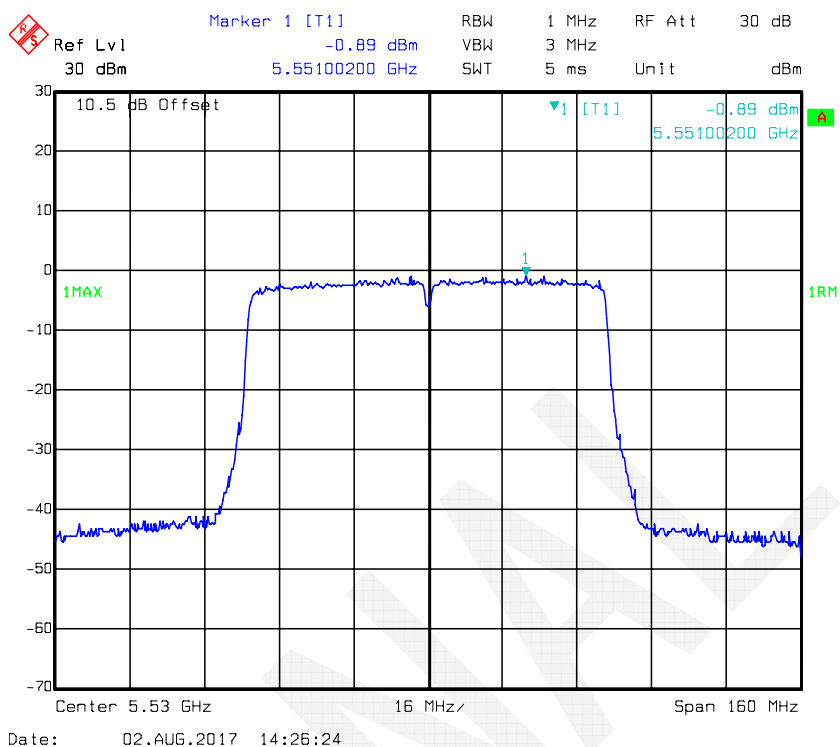
### 802.11ac40 mode, Power Spectral Density-5670 MHz, Antenna 1



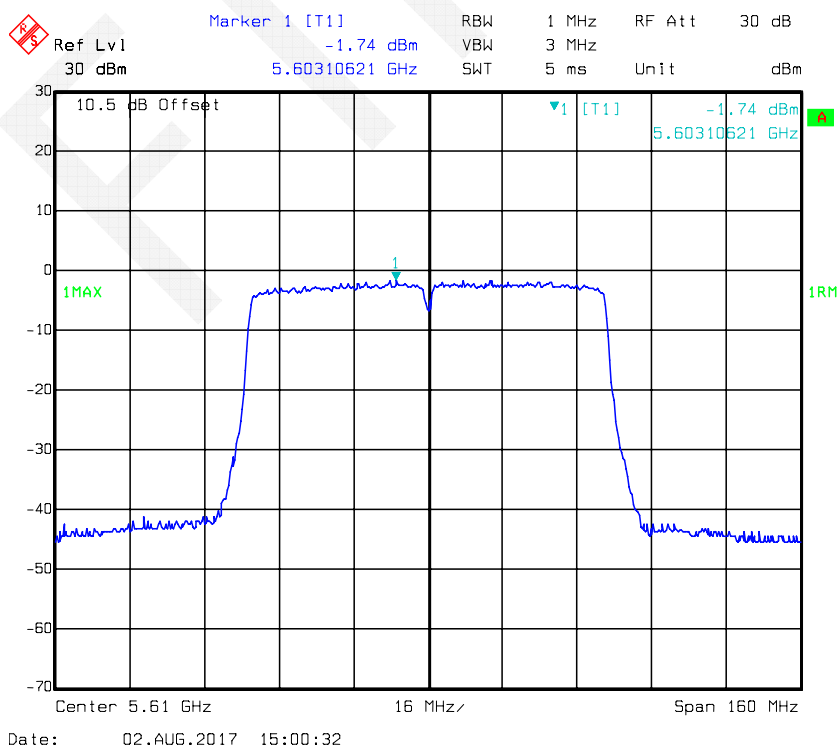
### 802.11ac40 mode, Power Spectral Density-5710 MHz, Antenna 1



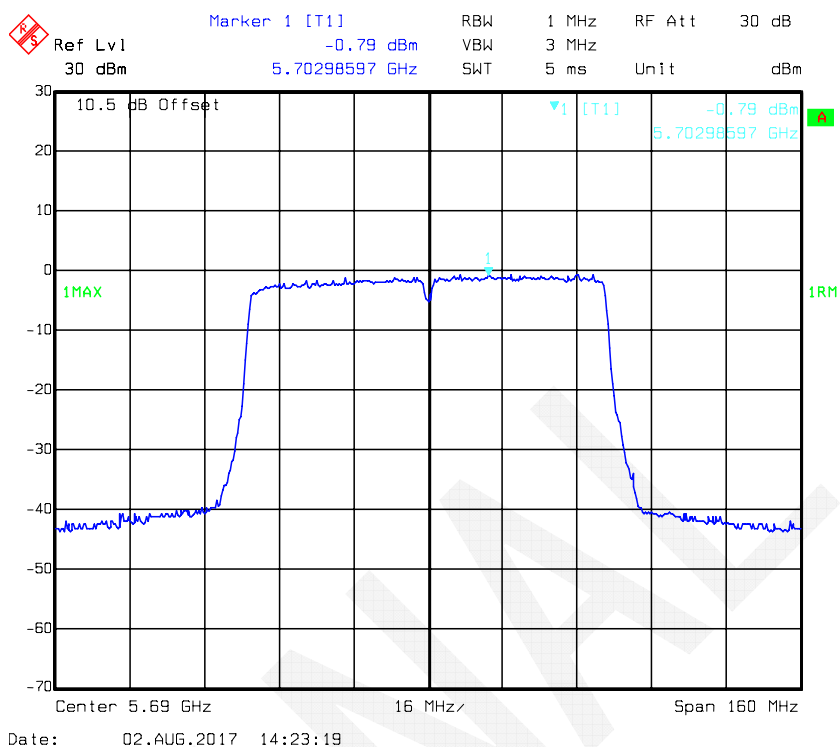
### 802.11ac80 mode, Power Spectral Density-5530 MHz, Antenna 0



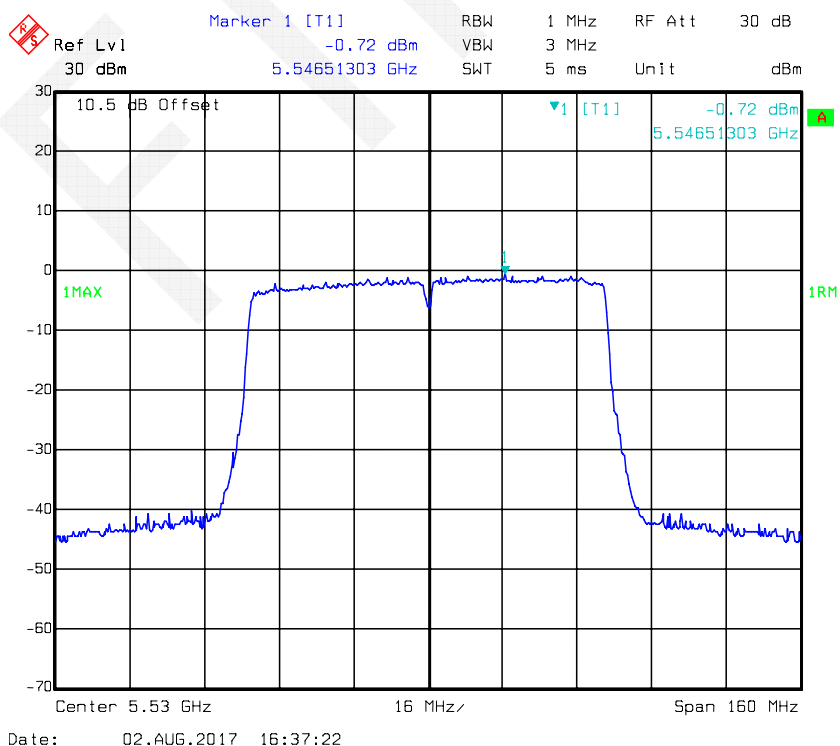
### 802.11ac80 mode, Power Spectral Density-5610 MHz, Antenna 0



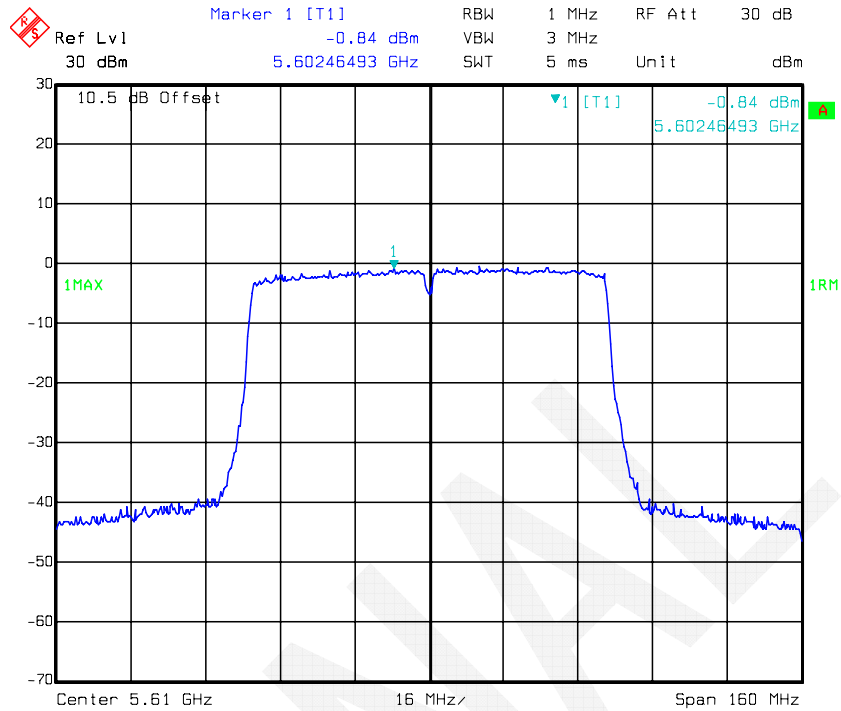
### 802.11ac80 mode, Power Spectral Density-5690 MHz, Antenna 0



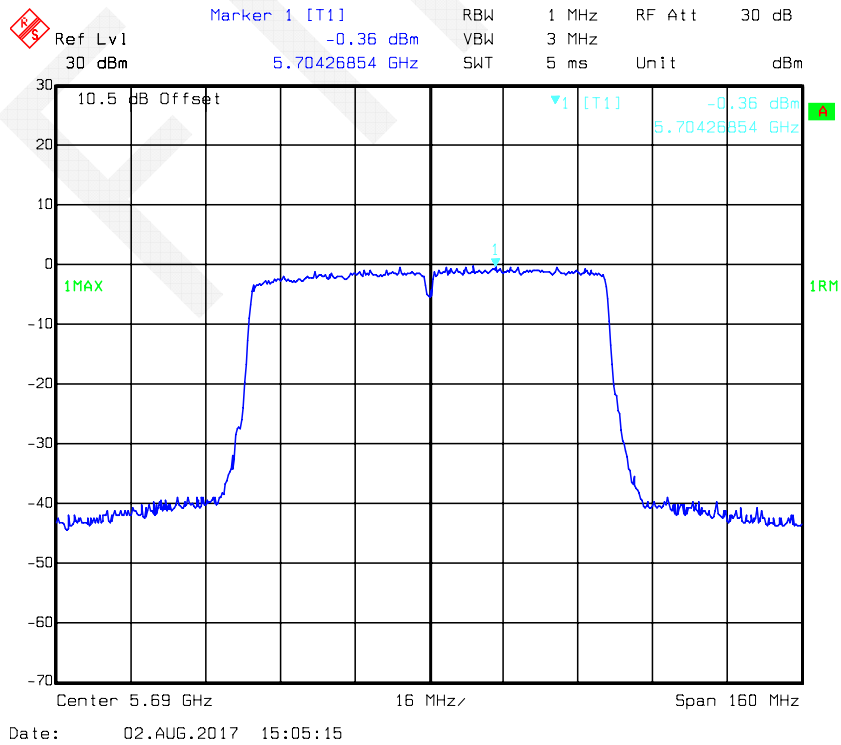
### 802.11ac80 mode, Power Spectral Density-5530 MHz, Antenna 1



802.11ac80 mode, Power Spectral Density-5610 MHz, Antenna 1



802.11ac80 mode, Power Spectral Density-5690 MHz, Antenna 1





**For 5725-5850 MHz:**

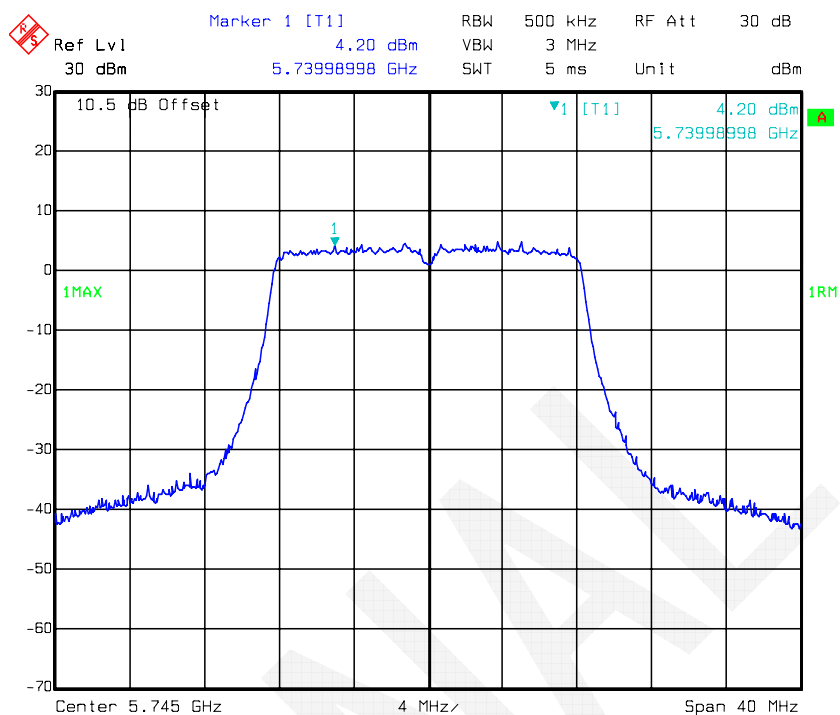
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Total (dBm/500kHz)	Limit (dBm/500kHz)
			Antenna 0	Antenna 1		
802.11a	Low	5745	4.20	6.77	8.68	30
	Middle	5785	4.78	6.90	8.98	30
	High	5825	3.52	5.74	7.78	30
802.11n-HT20	Low	5745	3.51	6.58	8.32	30
	Middle	5785	4.30	6.29	8.42	30
	High	5825	3.29	5.68	7.66	30
802.11n-HT40	Low	5755	0.15	2.49	4.49	30
	High	5795	1.01	3.47	5.42	30
802.11ac20	Low	5745	3.94	6.30	8.29	30
	Middle	5785	4.45	7.00	8.92	30
	High	5825	3.62	6.28	8.16	30
802.11ac40	Low	5755	0.03	3.09	4.83	30
	High	5795	0.77	2.85	4.94	30
802.11ac80	Middle	5775	-3.02	-1.13	1.04	30

Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:  
 Array Gain =  $10 \log(N_{\text{ANT}}/N_{\text{SS}})$  dB.

So:

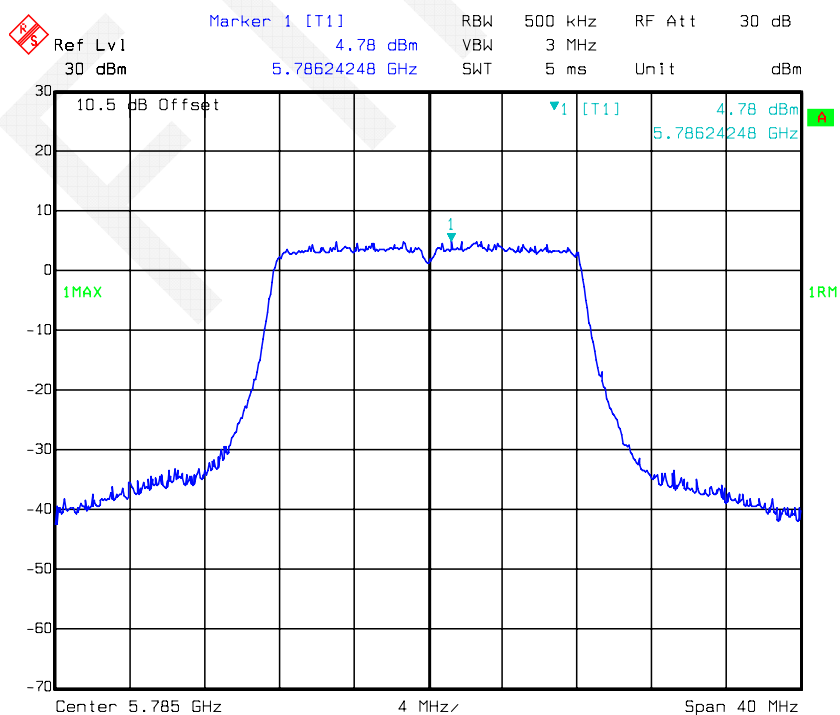
Directional gain = GANT + Array Gain =  $3.0 + 10 \cdot \log(2) = 6 \text{ dBi}$   
 No power density Limits was reduced in MIMO mode

### 802.11a mode, Power Spectral Density-5745 MHz, Antenna 0



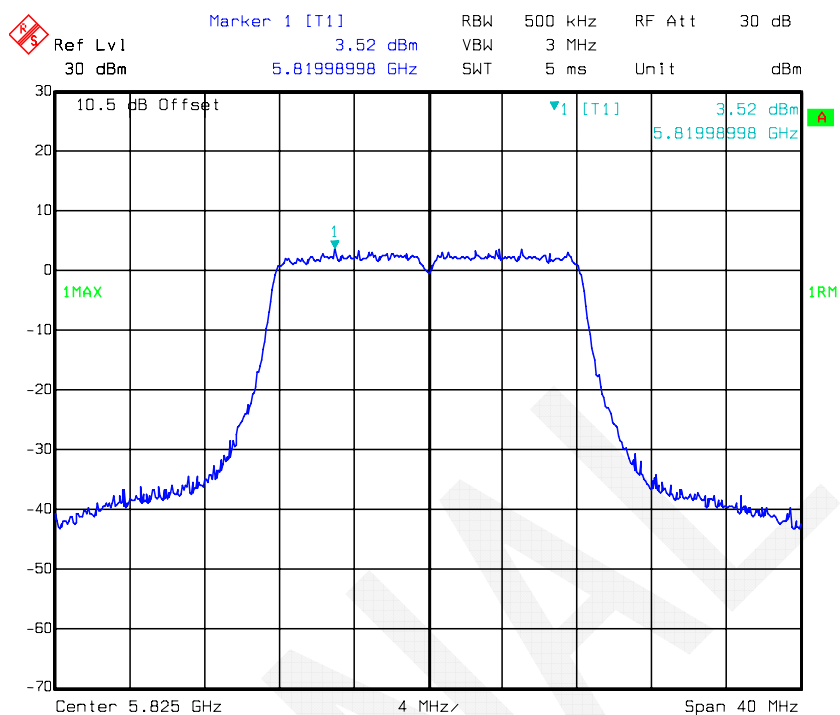
Date: 03.AUG.2017 16:20:36

### 802.11a mode, Power Spectral Density-5785 MHz, Antenna 0



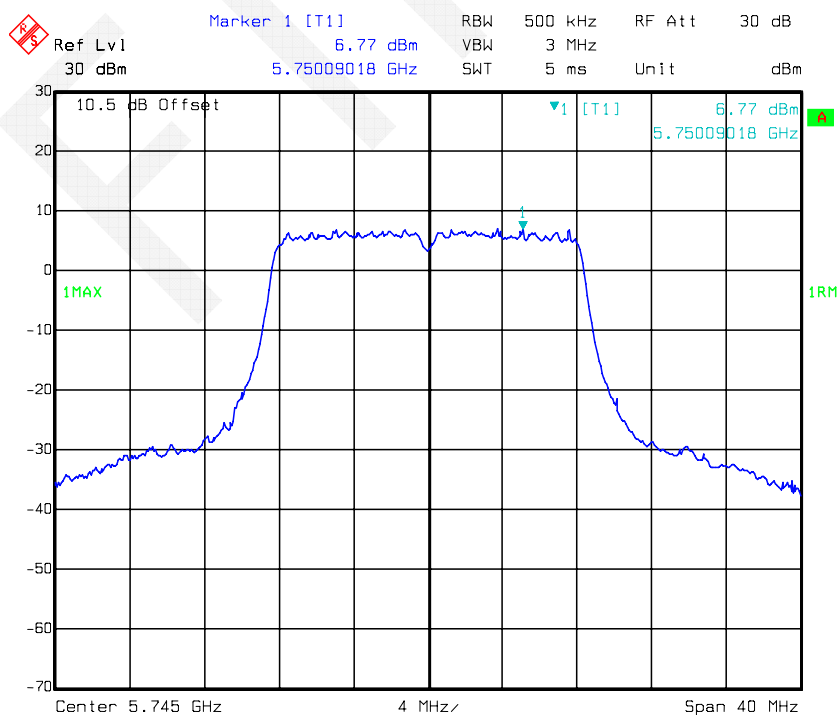
Date: 03.AUG.2017 16:21:04

### 802.11a mode, Power Spectral Density-5825 MHz, Antenna 0



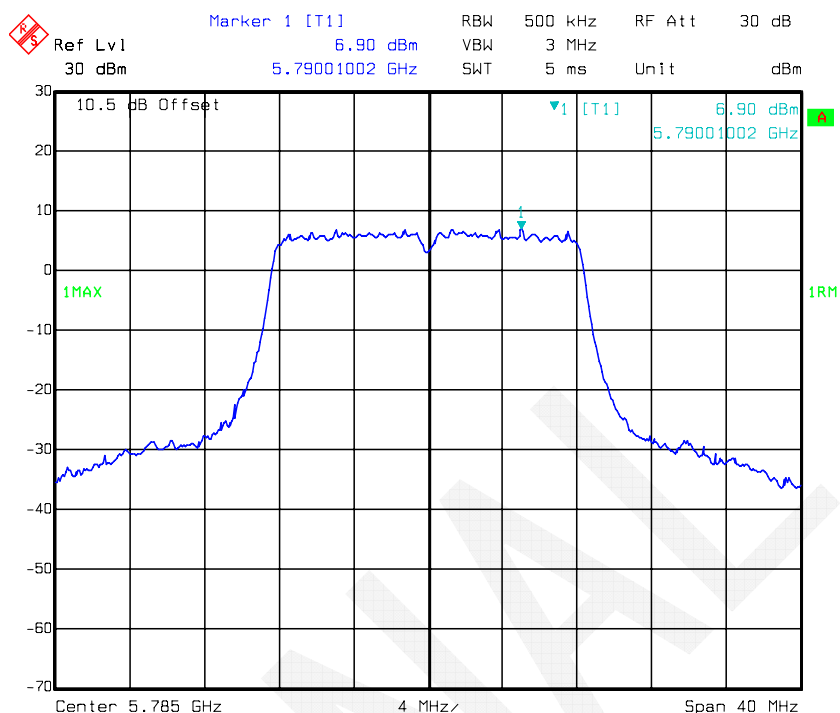
Date: 03.AUG.2017 16:21:39

### 802.11a mode, Power Spectral Density-5745 MHz, Antenna 1



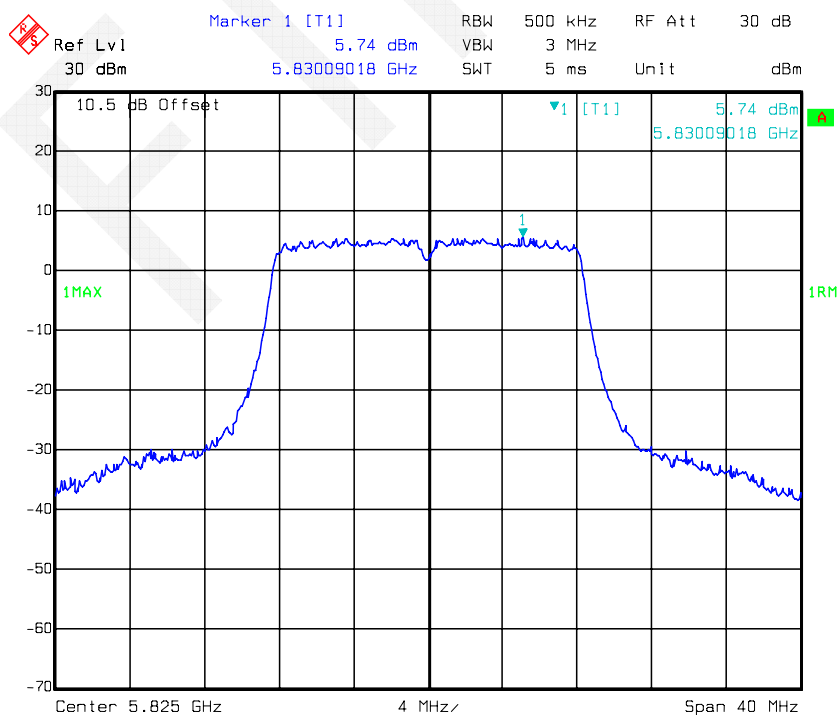
Date: 03.AUG.2017 14:39:33

### 802.11a mode, Power Spectral Density-5785 MHz, Antenna 1



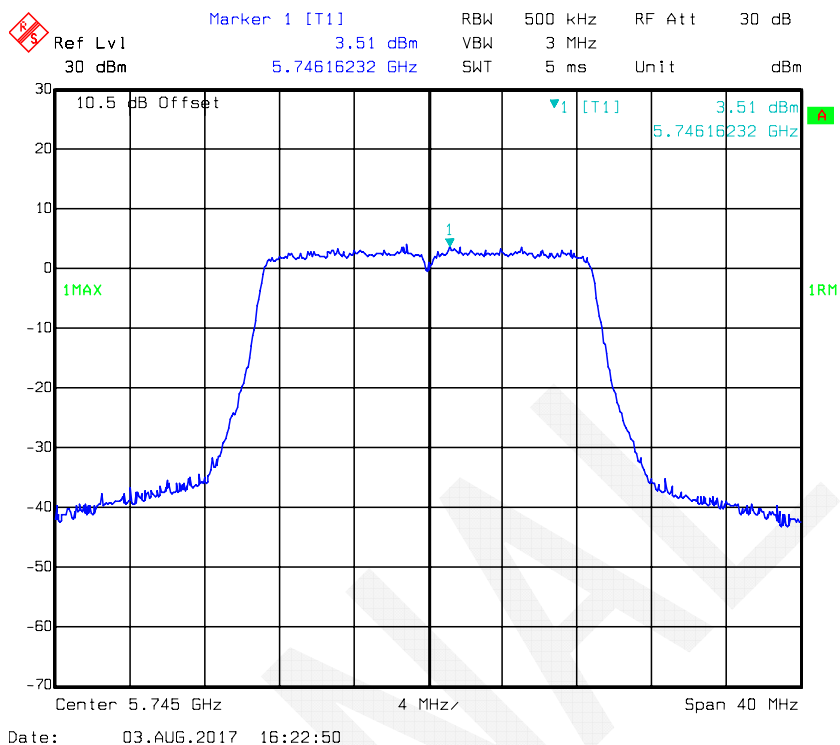
Date: 03.AUG.2017 14:41:46

### 802.11a mode, Power Spectral Density-5825 MHz, Antenna 1

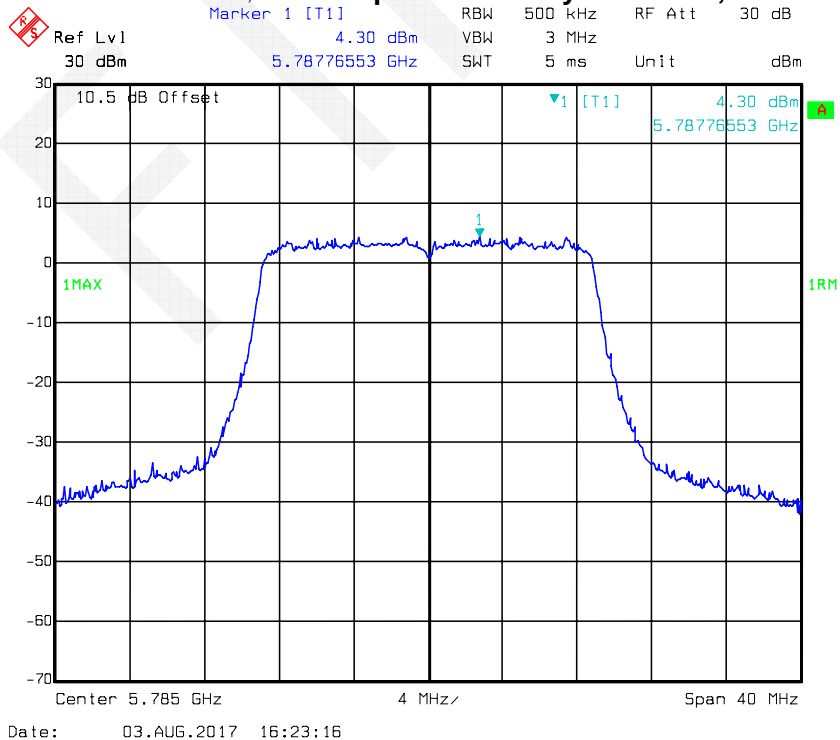


Date: 03.AUG.2017 14:42:12

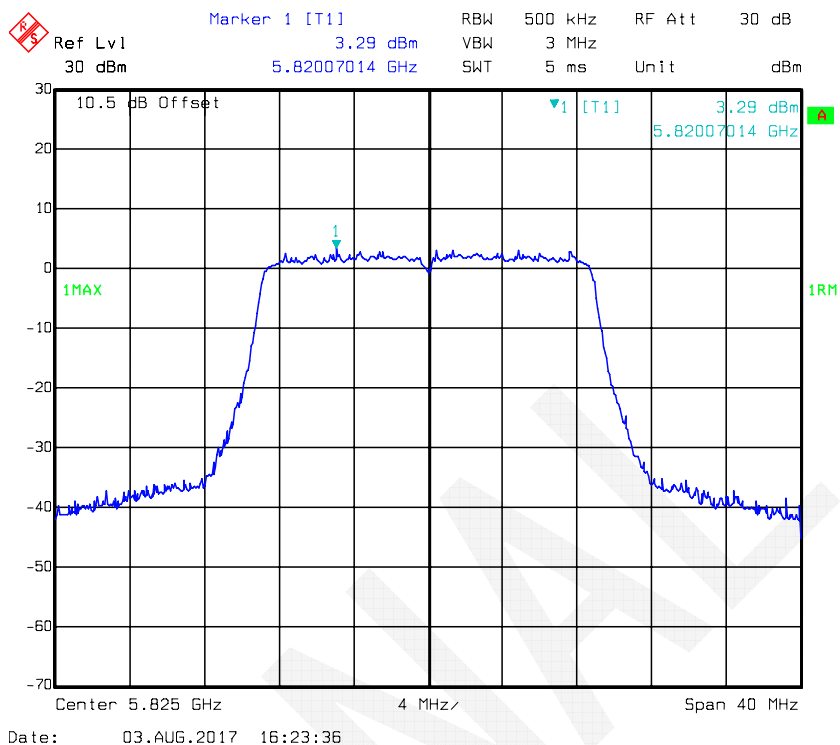
### 802.11n-HT20 mode, Power Spectral Density-5745 MHz, Antenna 0



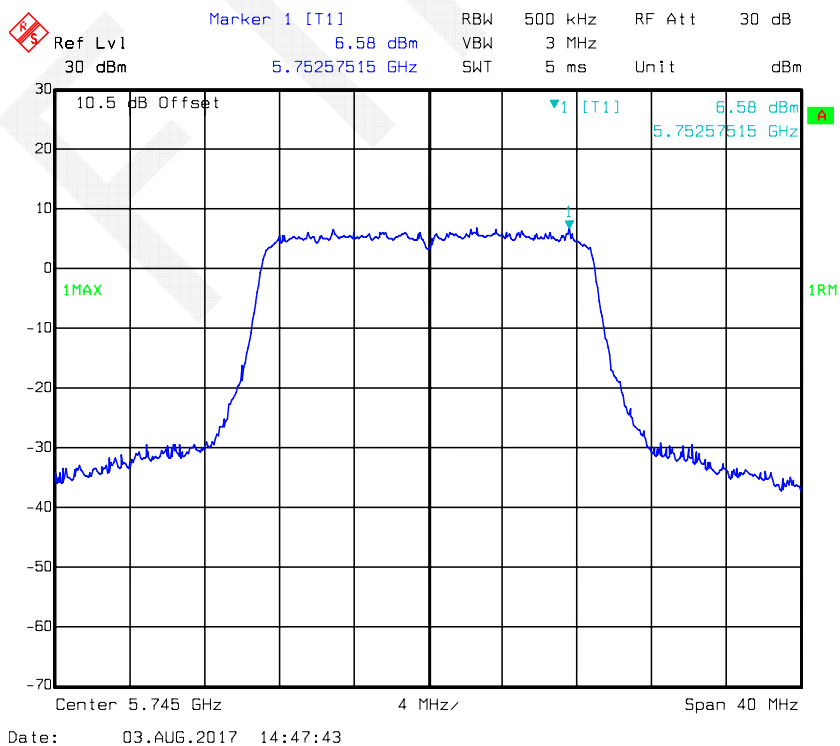
### 802.11n-HT20 mode, Power Spectral Density-5785 MHz, Antenna 0



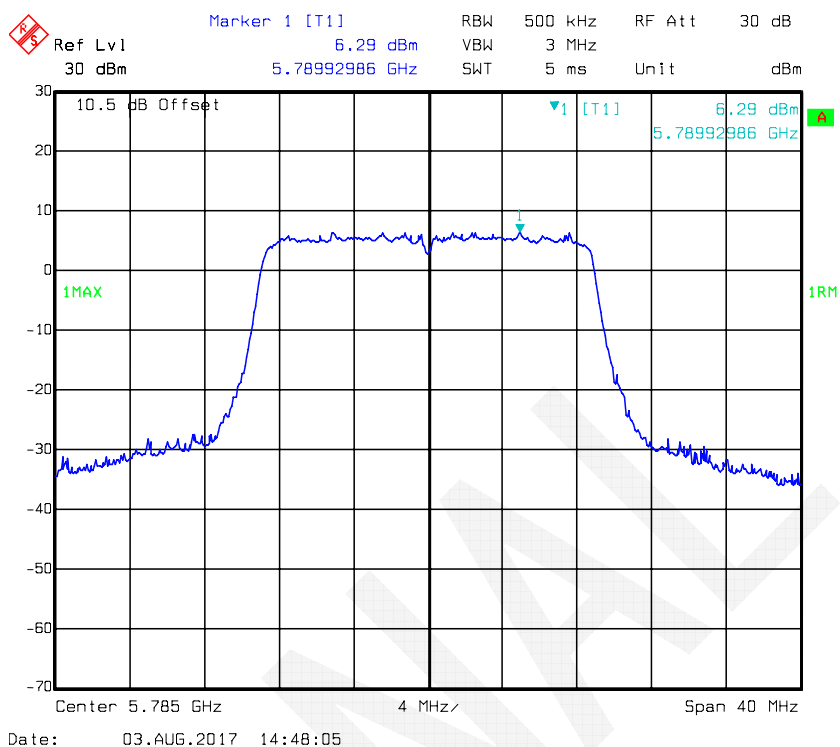
### 802.11n-HT20 mode, Power Spectral Density-5825 MHz, Antenna 0



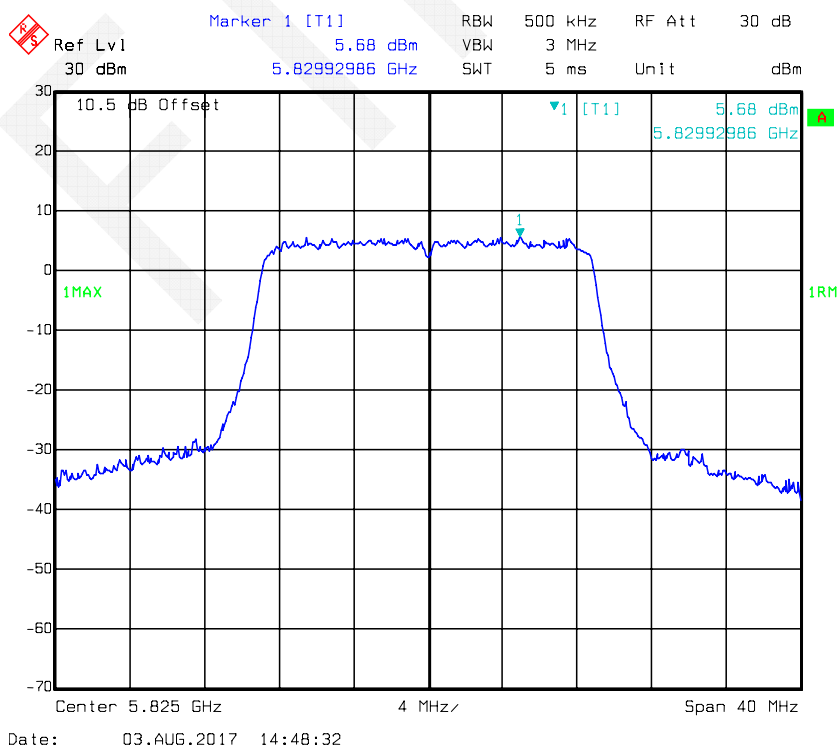
### 802.11n-HT20 mode, Power Spectral Density-5745 MHz, Antenna 1



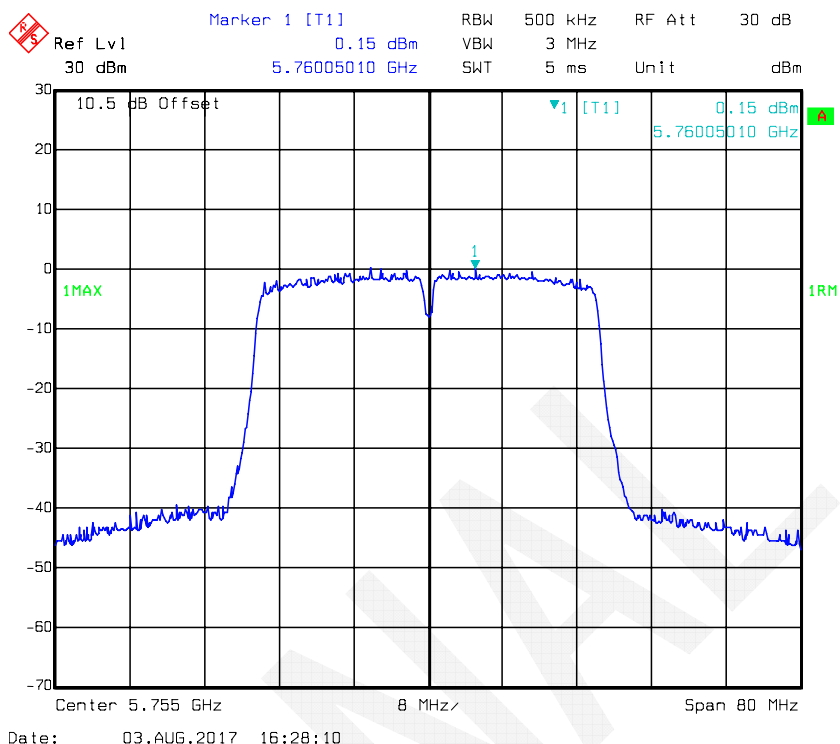
### 802.11n-HT20 mode, Power Spectral Density-5785 MHz, Antenna 1



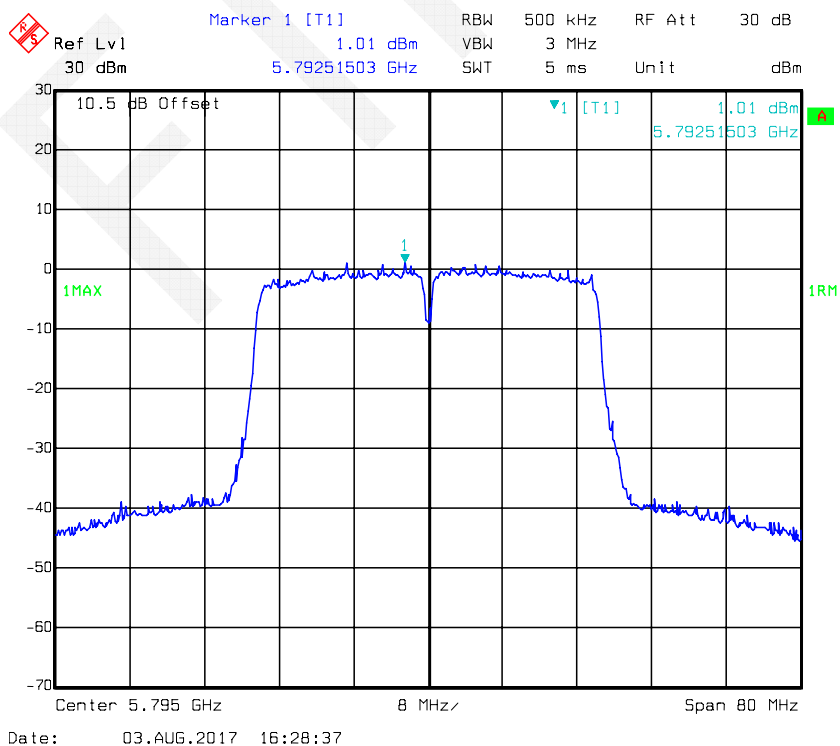
### 802.11n-HT20 mode, Power Spectral Density-5825 MHz, Antenna 1



### 802.11n-HT40 mode, Power Spectral Density-5755 MHz, Antenna 0

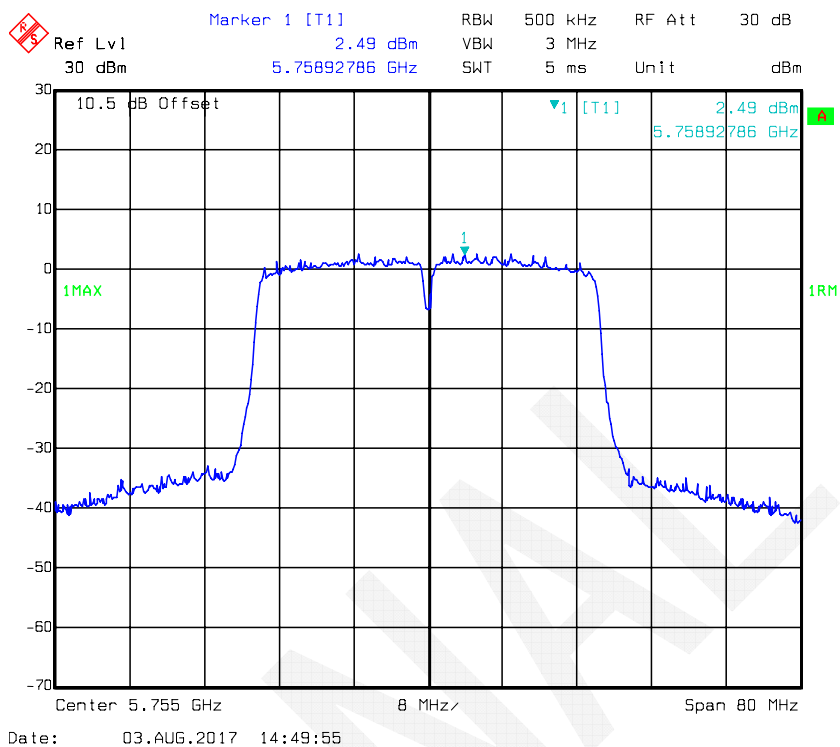


### 802.11n-HT40 mode, Power Spectral Density-5795 MHz, Antenna 0

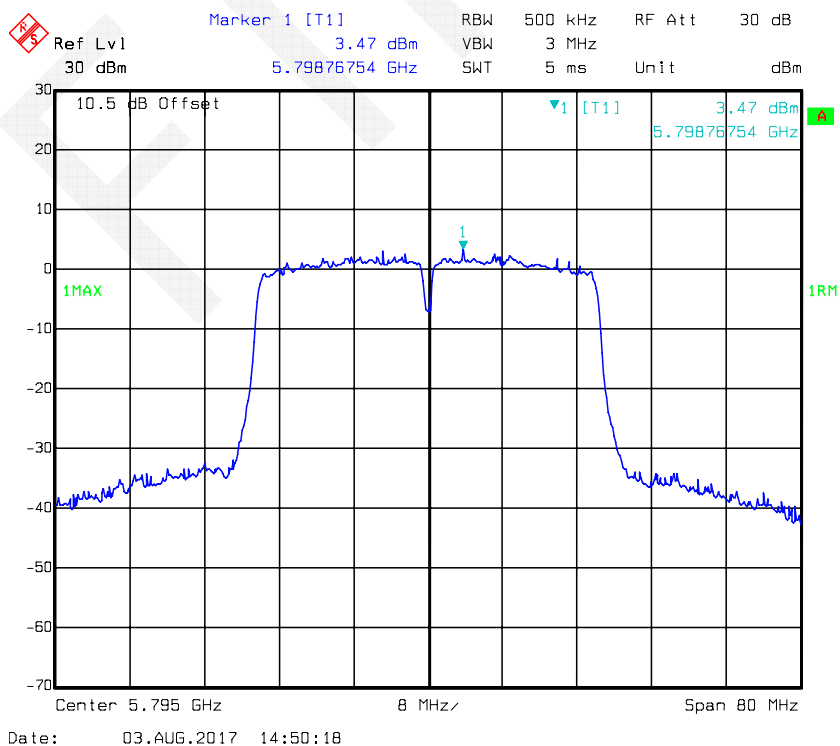




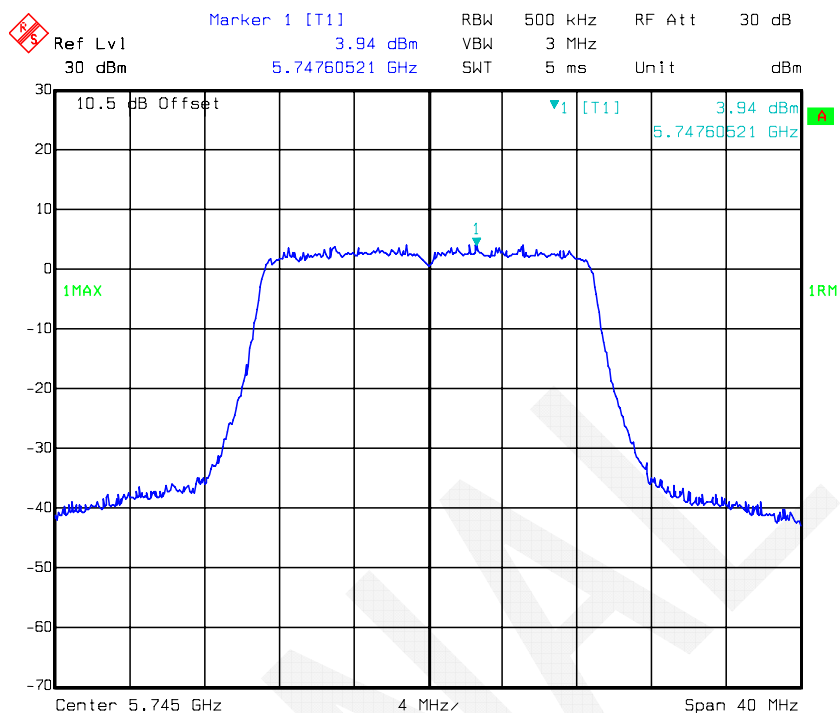
### 802.11n-HT40 mode, Power Spectral Density-5755 MHz, Antenna 1



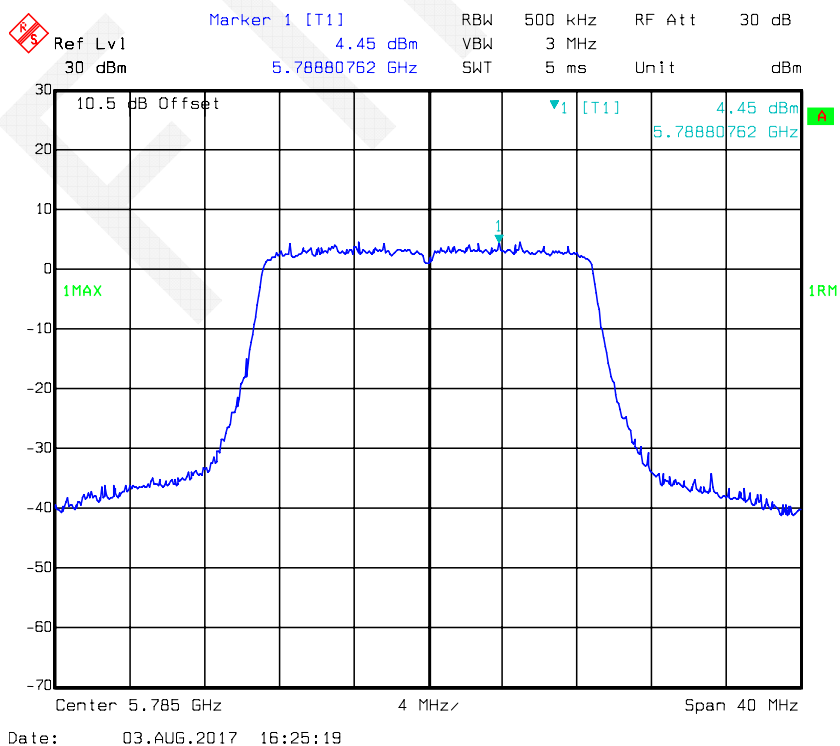
### 802.11n-HT40 mode, Power Spectral Density-5795 MHz, Antenna 1



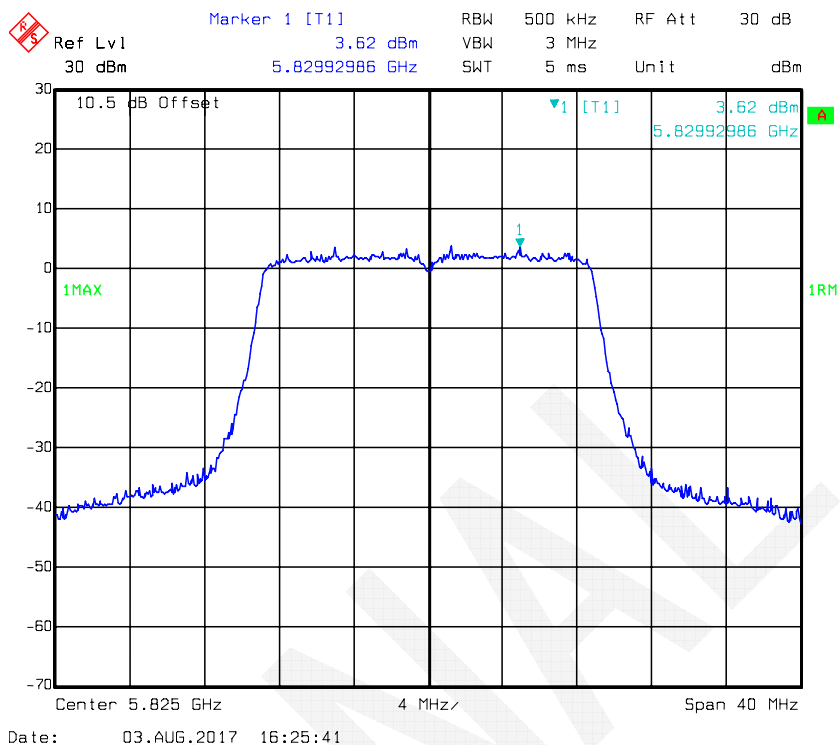
### 802.11ac20 mode, Power Spectral Density-5745 MHz, Antenna 0



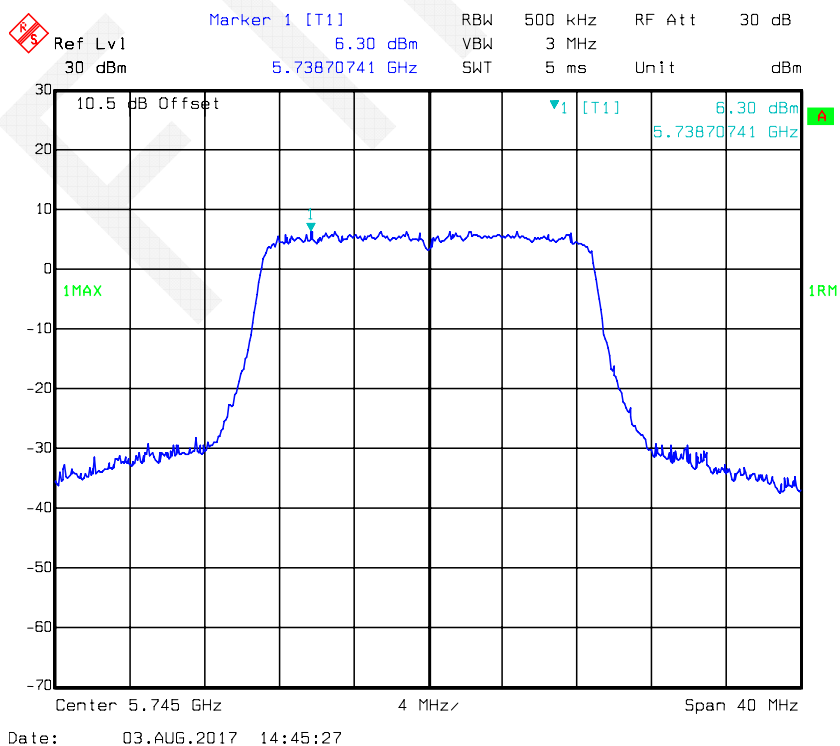
### 802.11ac20 mode, Power Spectral Density-5785 MHz, Antenna 0



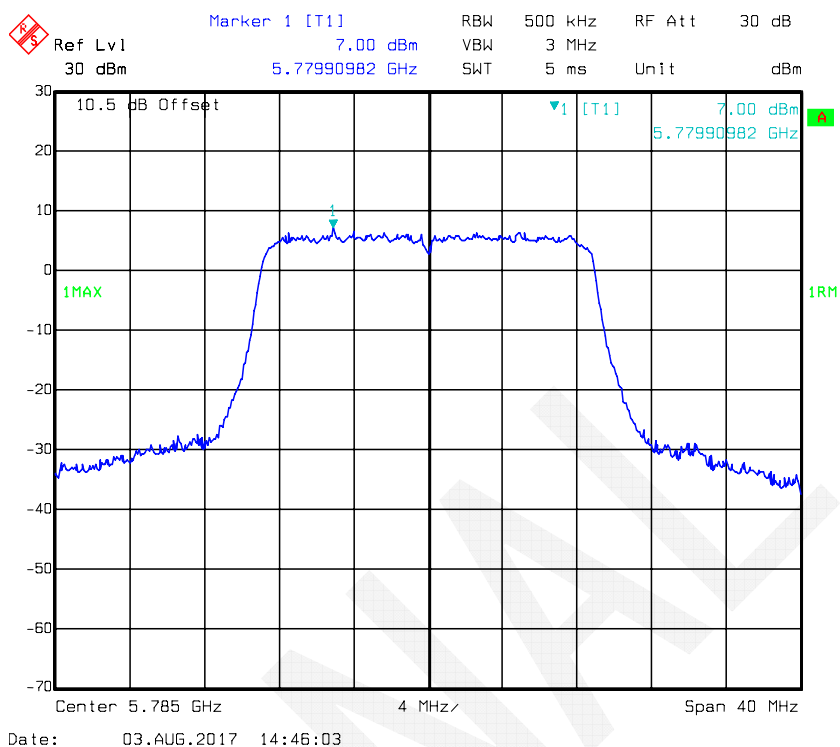
### 802.11ac20 mode, Power Spectral Density-5825 MHz, Antenna 0



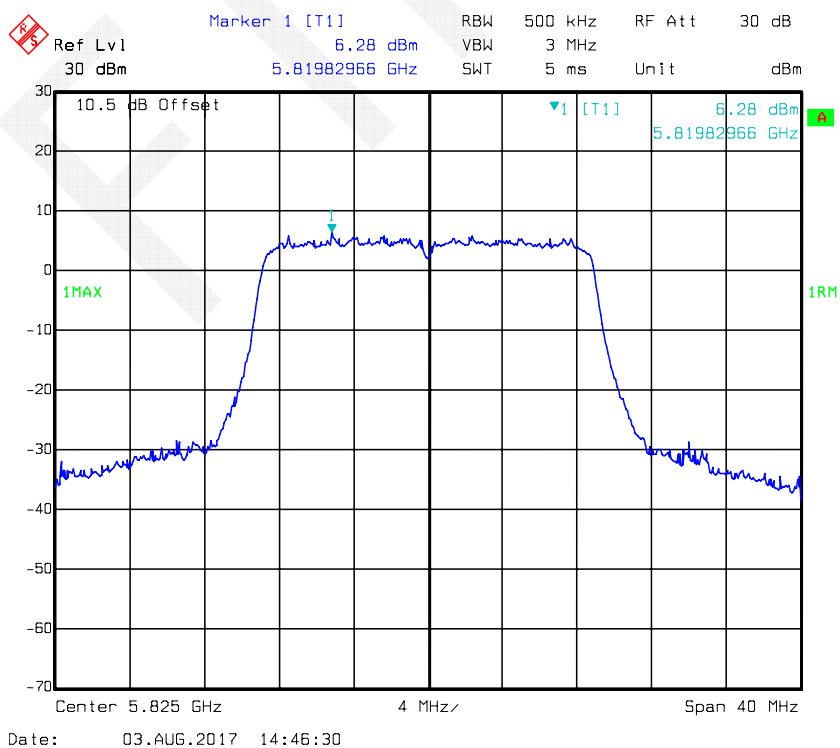
### 802.11ac20 mode, Power Spectral Density-5745 MHz, Antenna 1



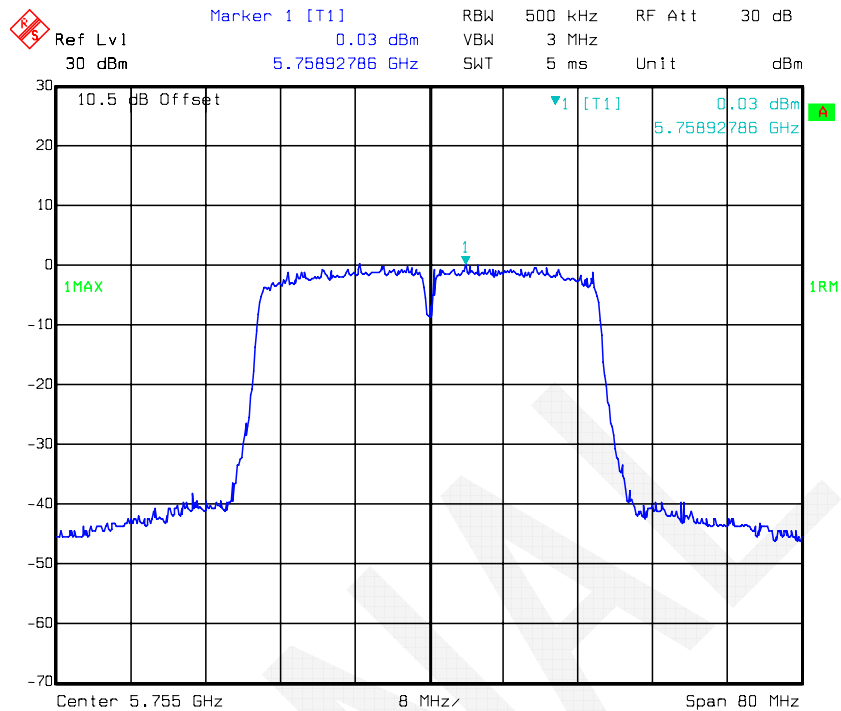
802.11ac20 mode, Power Spectral Density-5785 MHz, Antenna 1



802.11ac20 mode, Power Spectral Density-5825 MHz, Antenna 1

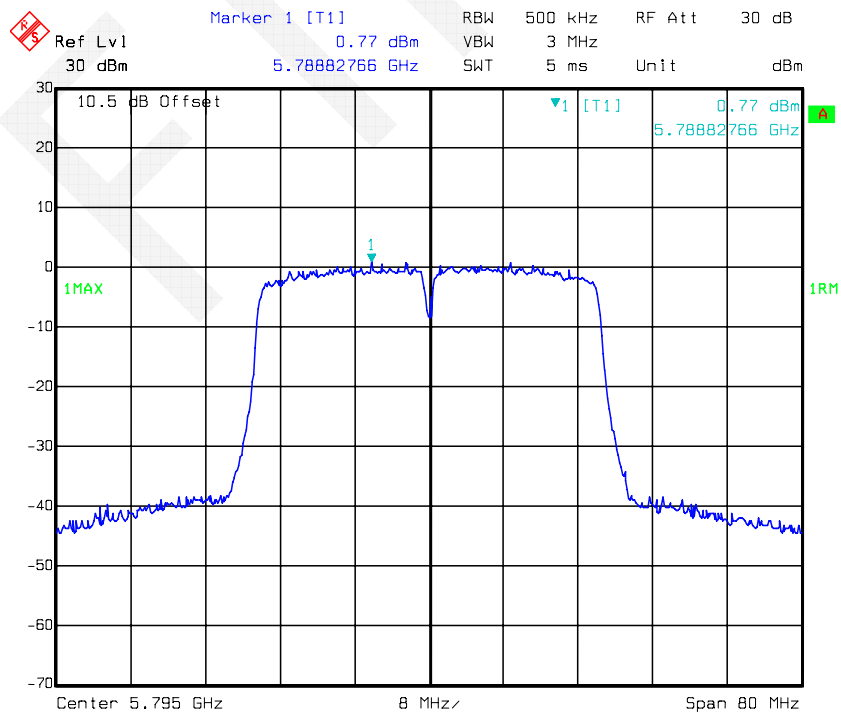


### 802.11ac40 mode, Power Spectral Density-5755 MHz, Antenna 0



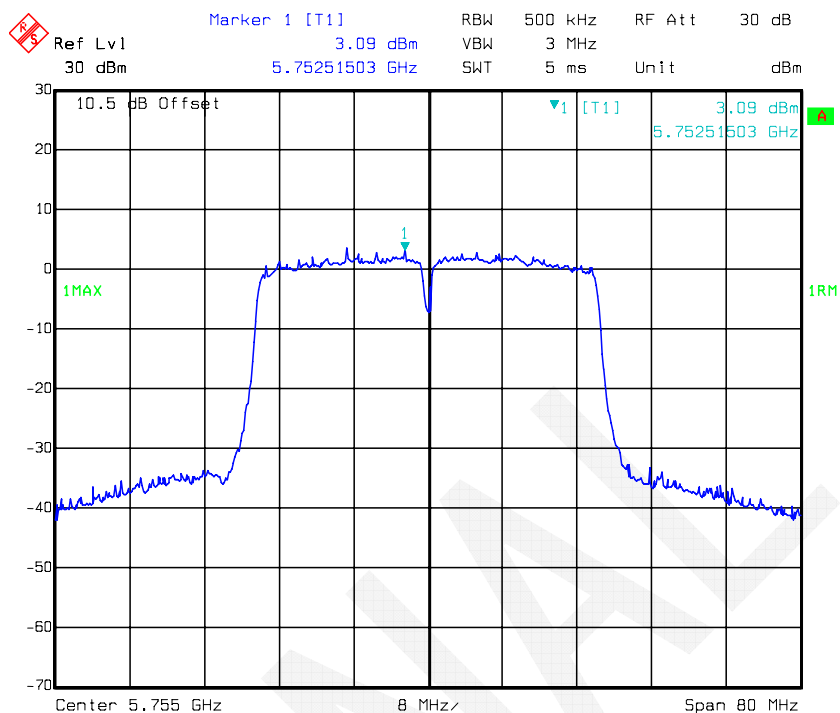
Date: 03.AUG.2017 16:29:40

### 802.11ac40 mode, Power Spectral Density-5795 MHz, Antenna 0

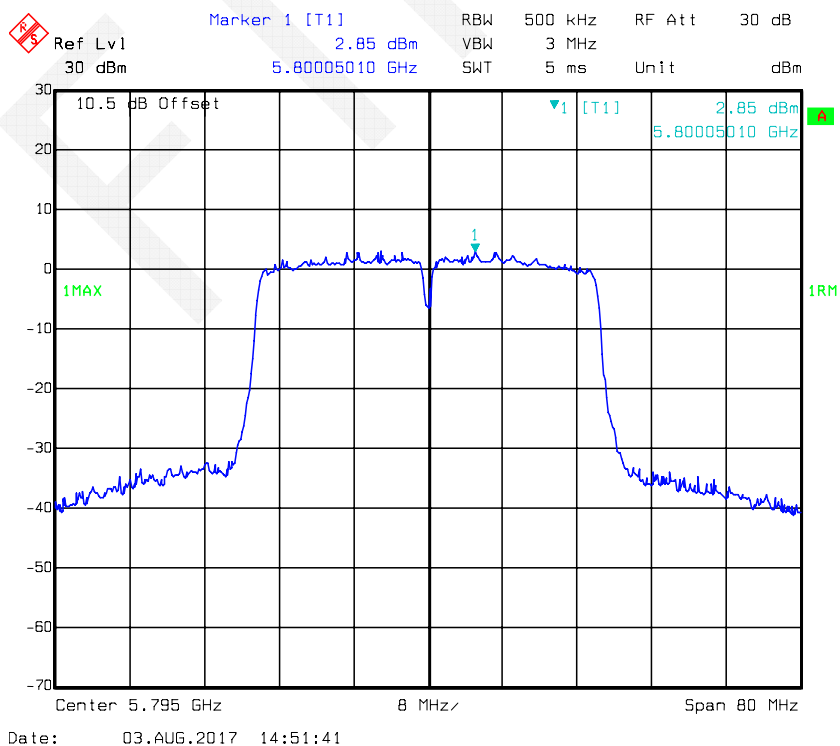


Date: 03.AUG.2017 16:30:07

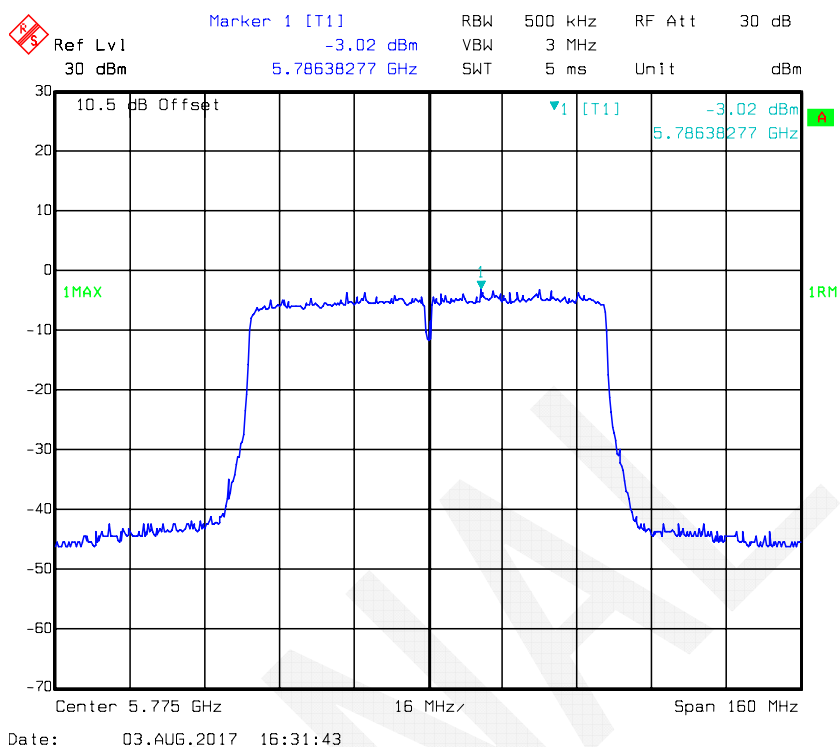
### 802.11ac40 mode, Power Spectral Density-5755 MHz, Antenna 1



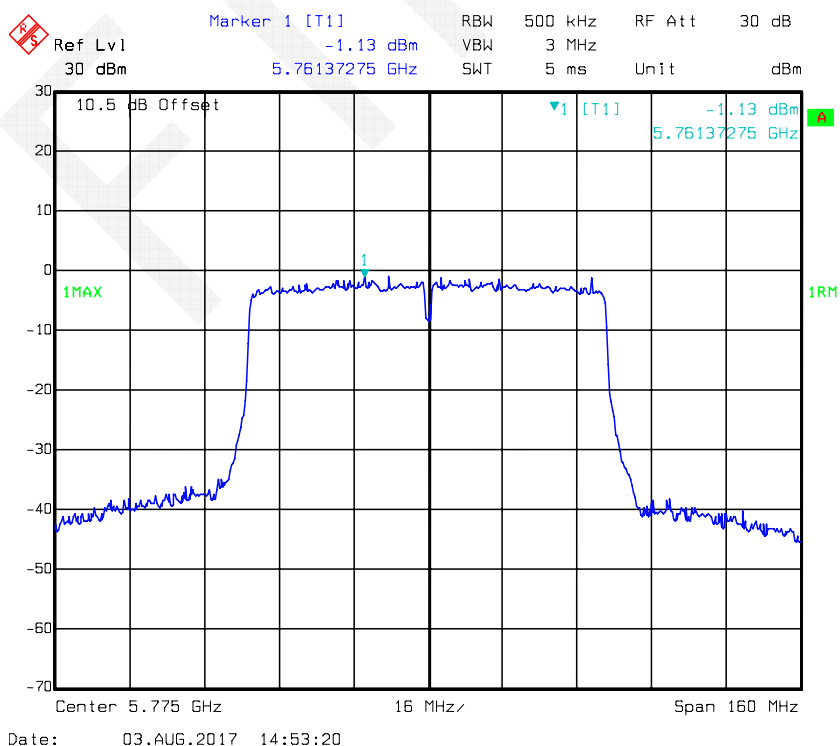
### 802.11ac40 mode, Power Spectral Density-5795 MHz, Antenna 1



802.11ac80 mode, Power Spectral Density-5775 MHz, Antenna 0



802.11ac80 mode, Power Spectral Density-5775 MHz, Antenna 1



\*\*\*\*\* END OF REPORT \*\*\*\*\*