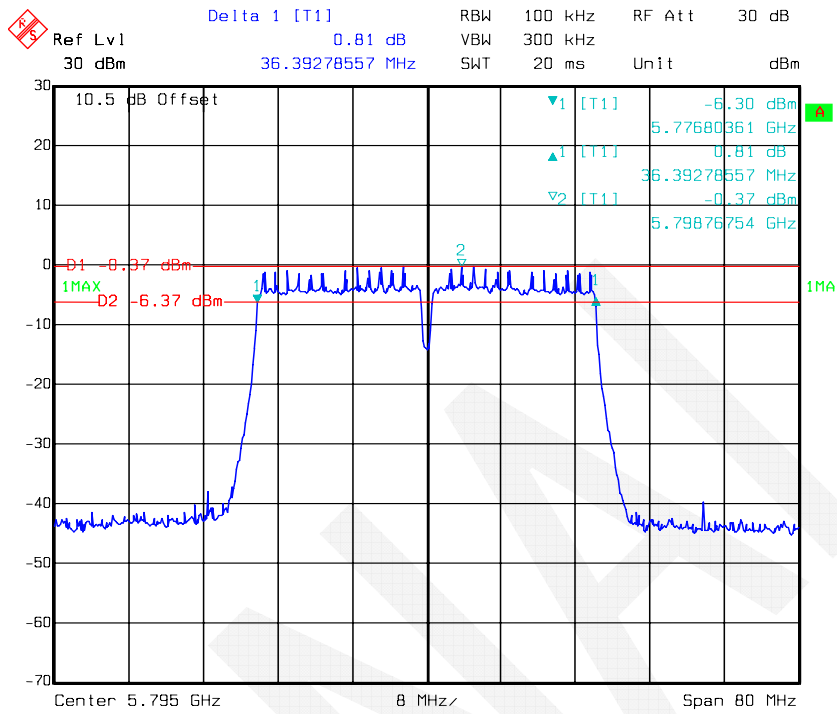
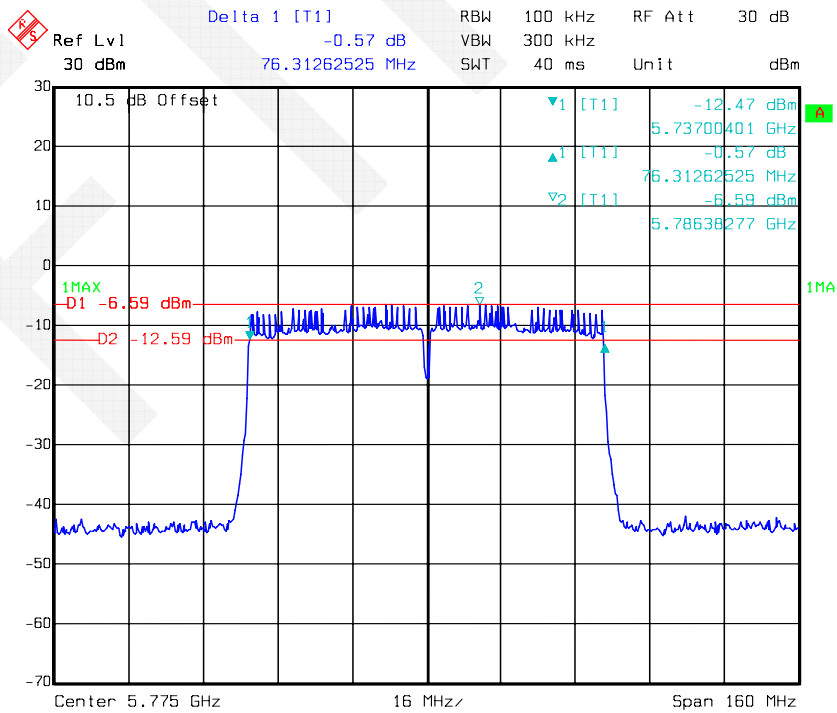


802.11ac40 mode, 6 dB Bandwidth-5795 MHz, Antenna 2



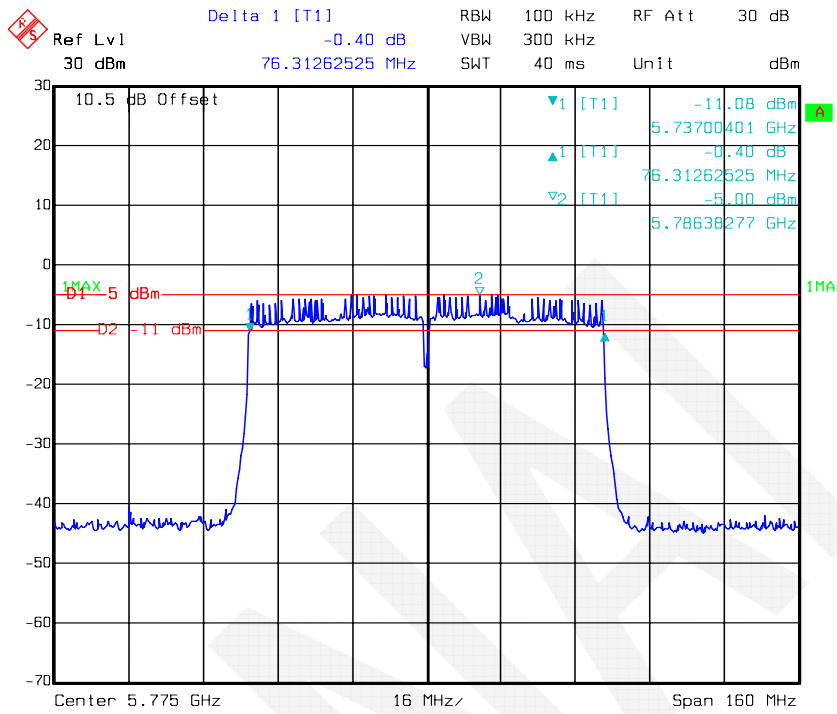
Date: 07.MAR.2018 11:21:26

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



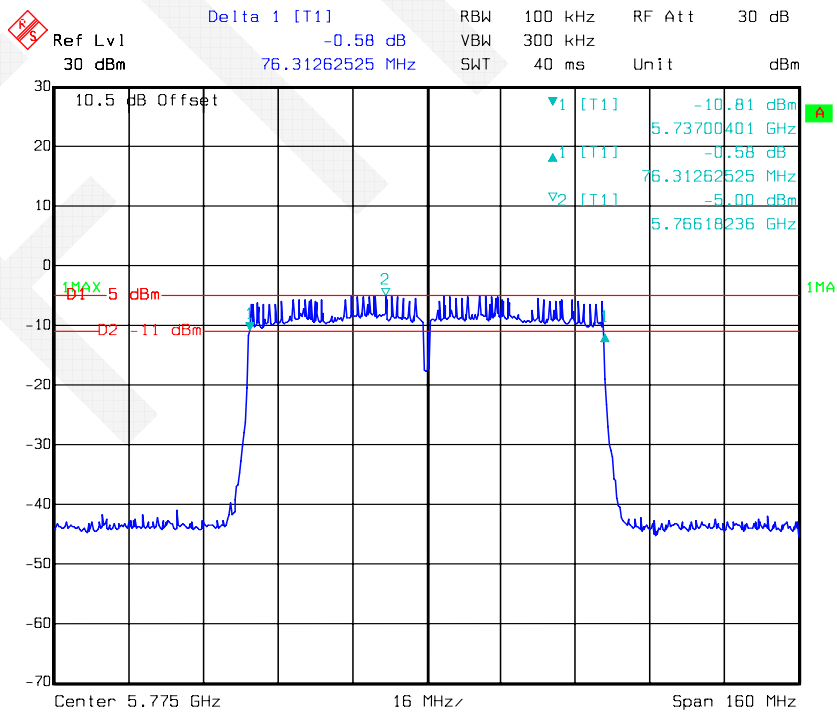
Date: 07.MAR.2018 10:19:07

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



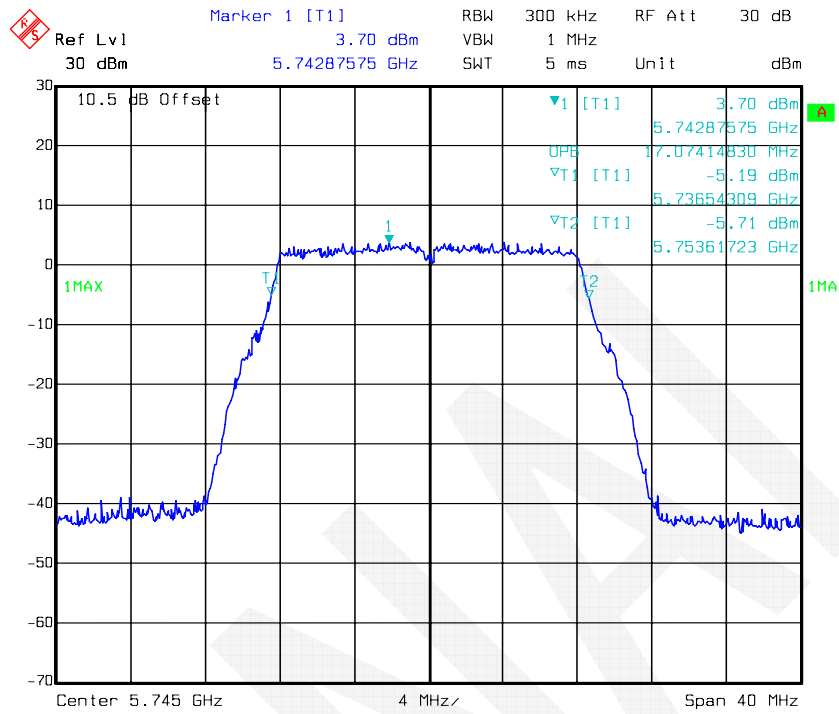
Date: 07.MAR.2018 10:43:52

802.11ac80 mode, 6 dB Bandwidth-5775 MHz, Antenna 2



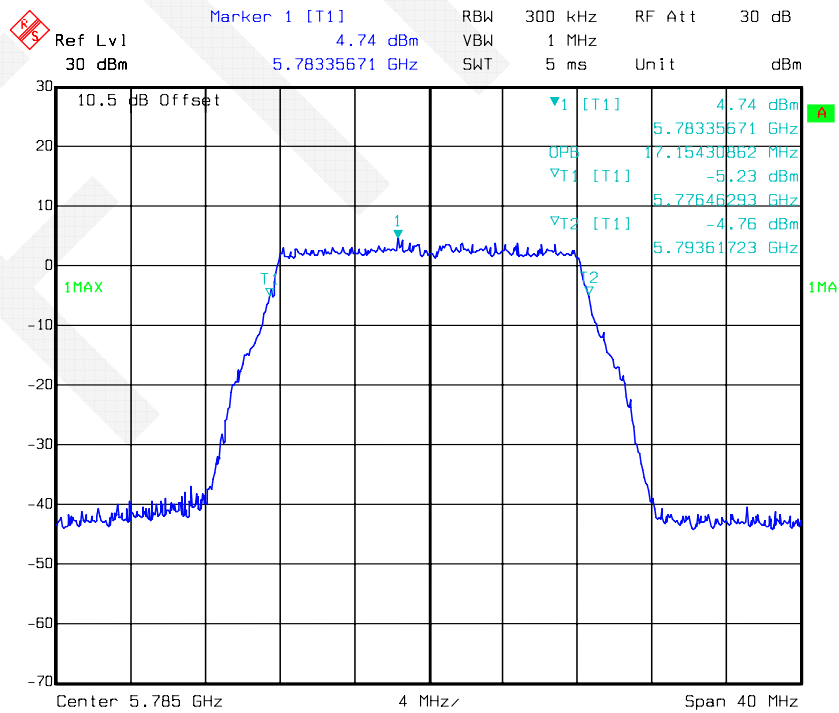
Date: 07.MAR.2018 11:24:32

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



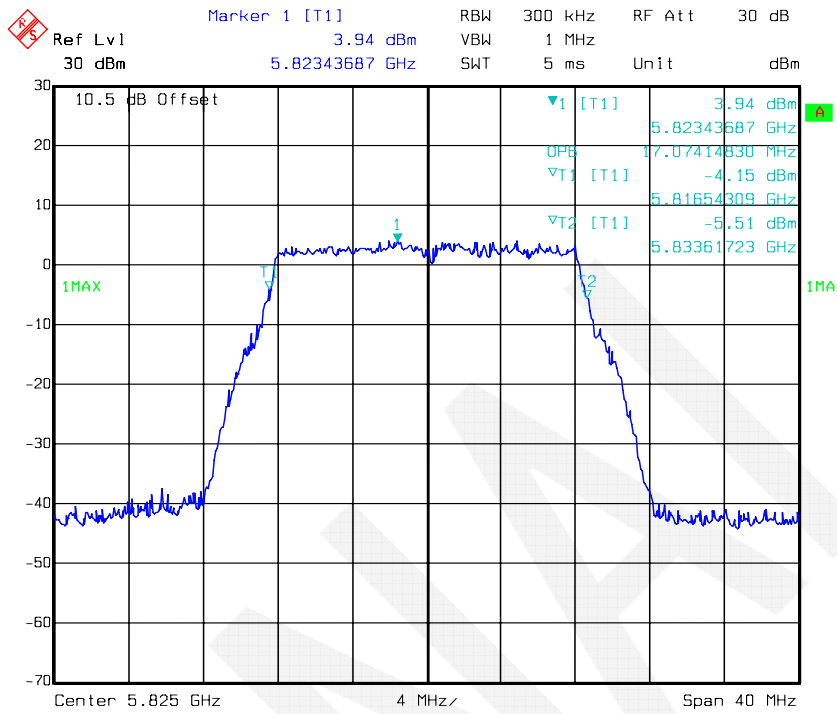
Date: 07.MAR.2018 10:02:46

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

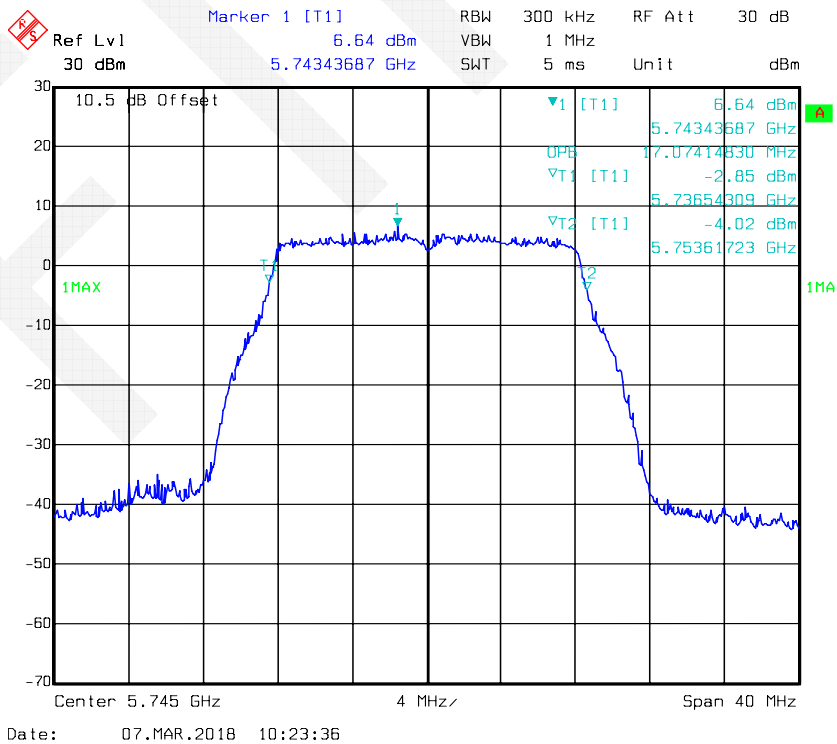


Date: 07.MAR.2018 10:04:46

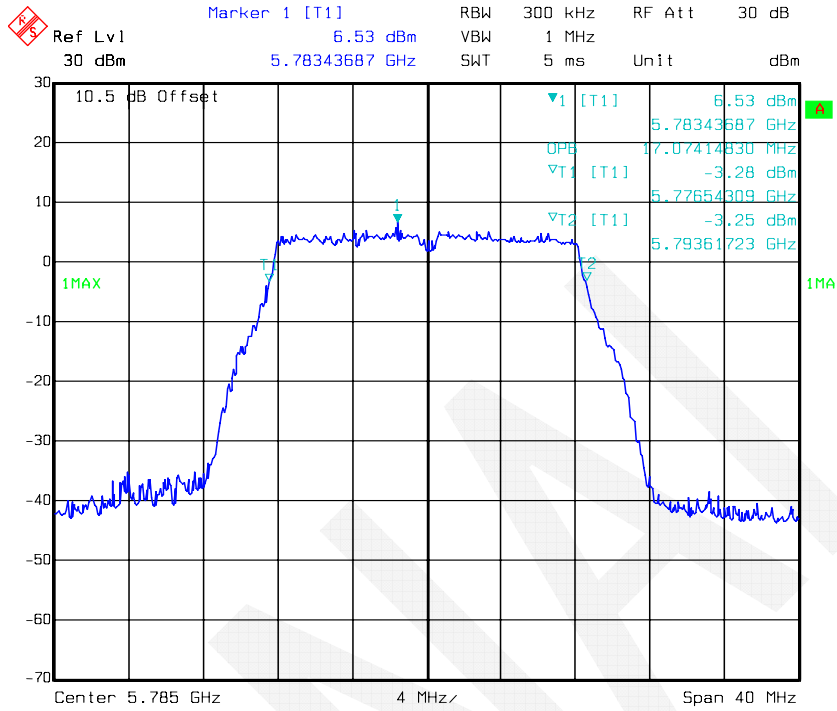
802.11a mode, 99% Occupied Bandwidth -5825 MHz, Antenna 0



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

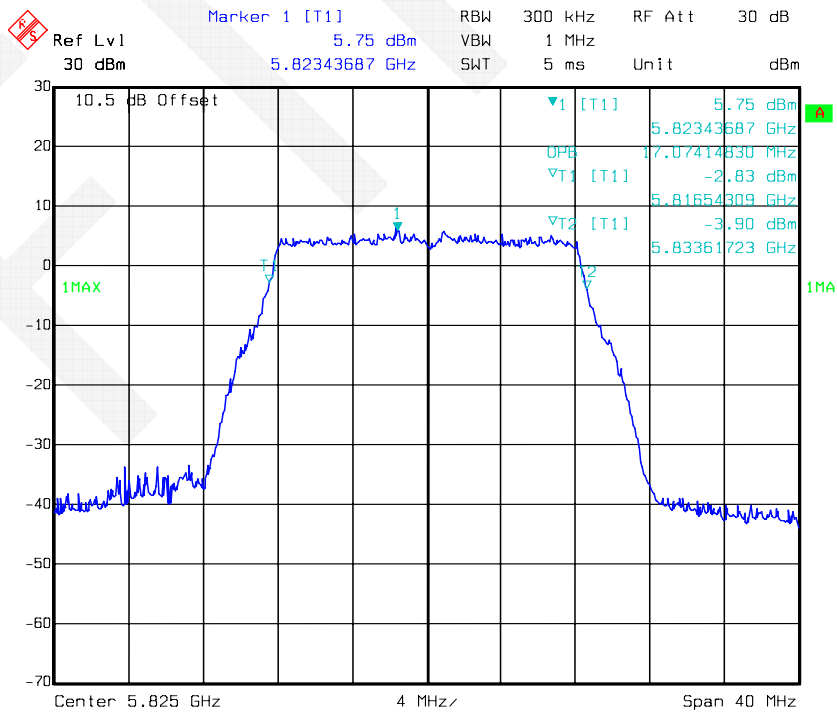


802.11a mode, 99% Occupied Bandwidth -5785 MHz, Antenna 1



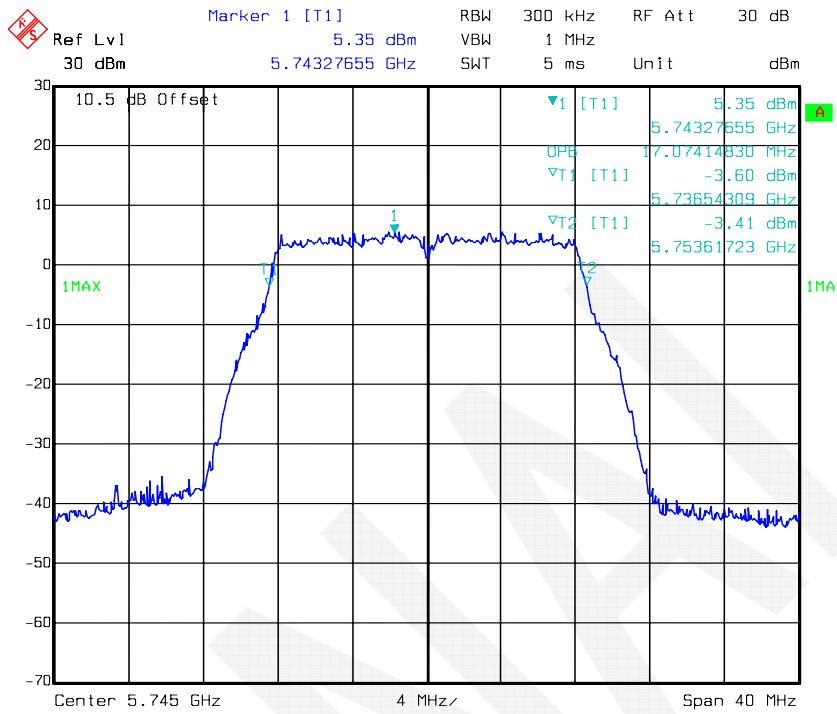
Date: 07.MAR.2018 10:25:38

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



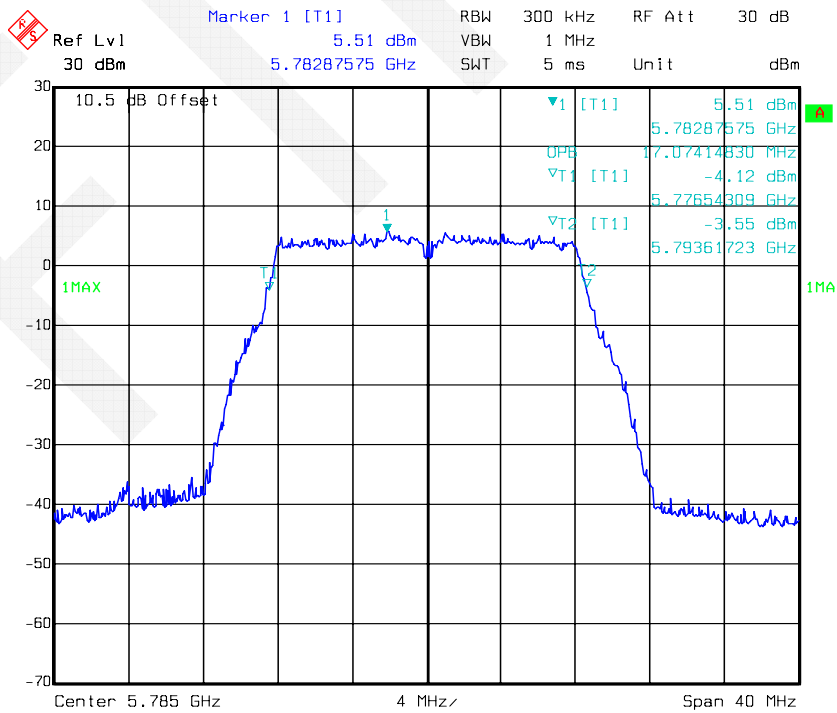
Date: 07.MAR.2018 10:27:02

802.11a mode, 99% Occupied Bandwidth-5745 MHz, Antenna 2



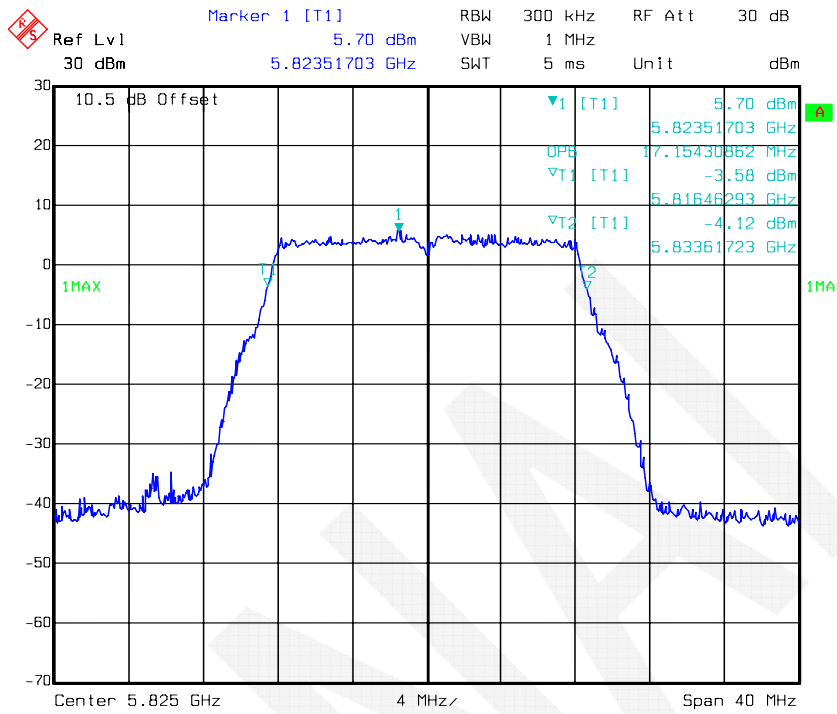
Date: 07.MAR.2018 11:02:33

802.11a mode, 99% Occupied Bandwidth -5785 MHz, Antenna 2



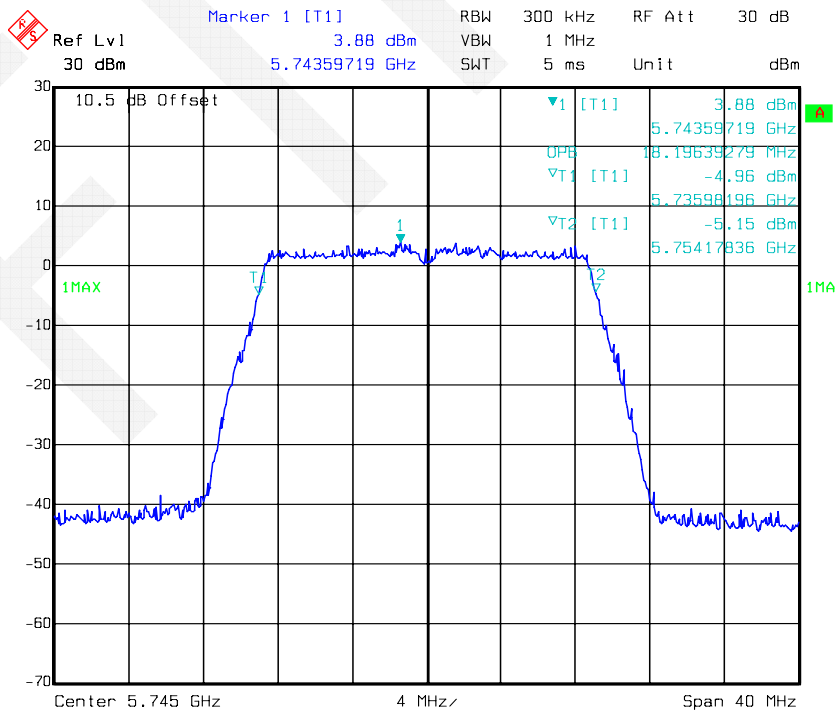
Date: 07.MAR.2018 11:04:18

802.11a mode, 99% Occupied Bandwidth -5825 MHz, Antenna 2



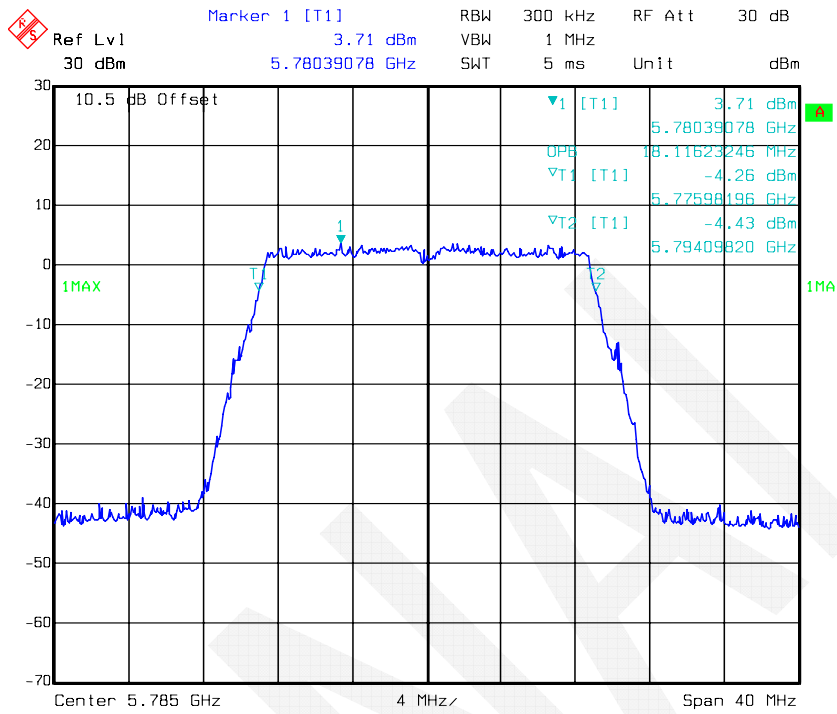
Date: 07.MAR.2018 11:05:49

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



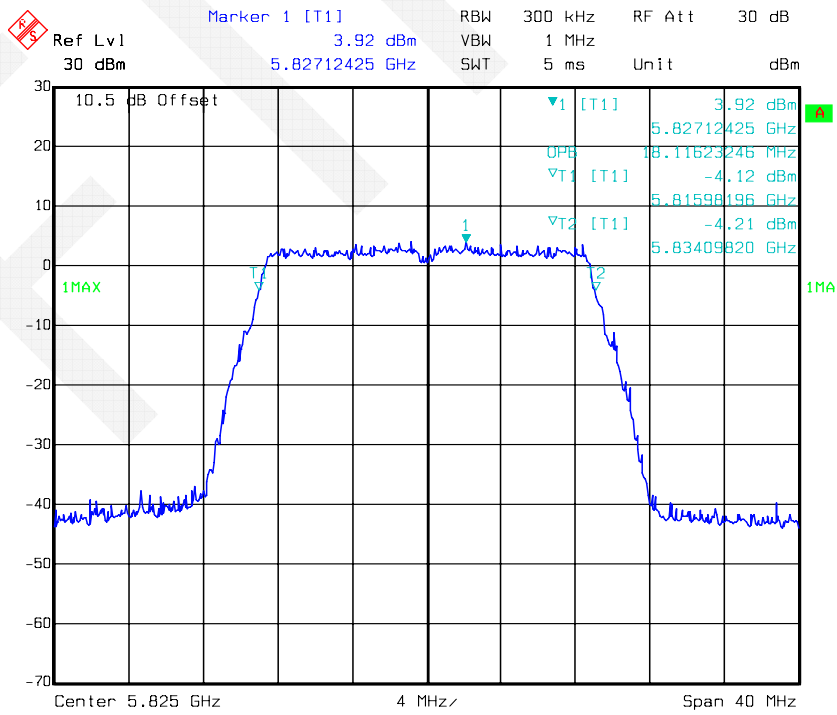
Date: 07.MAR.2018 10:07:35

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



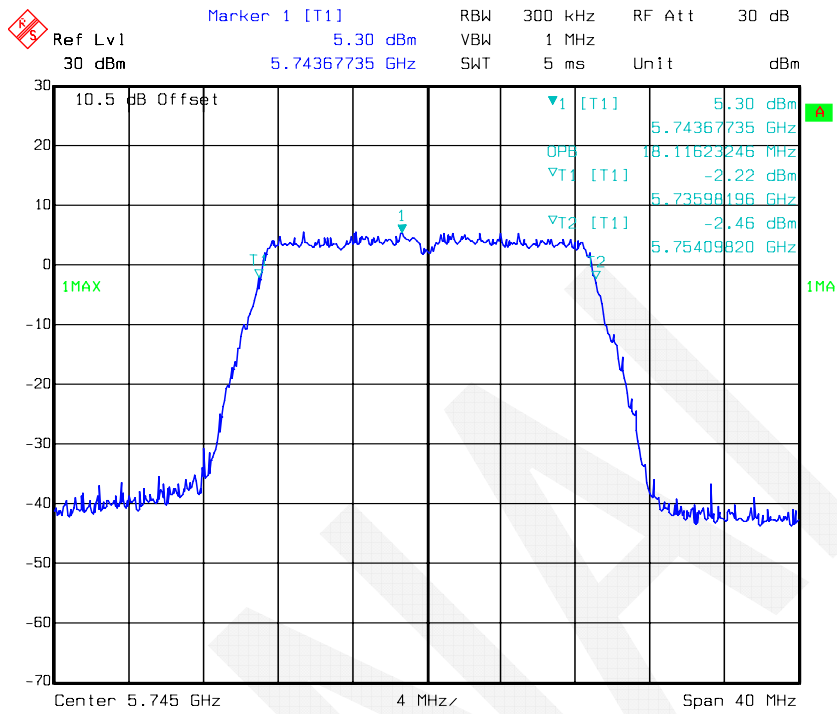
Date: 07.MAR.2018 10:09:01

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



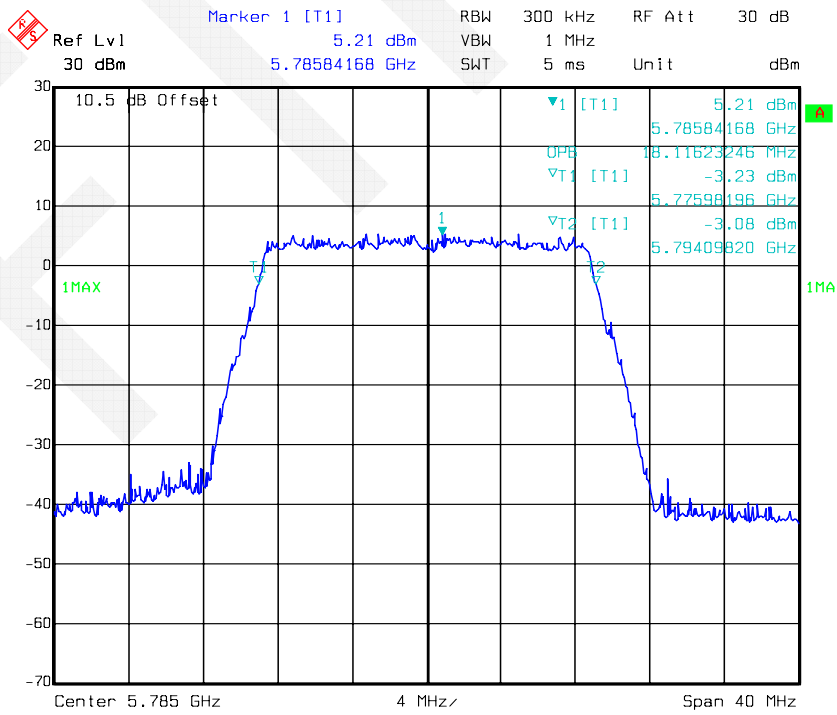
Date: 07.MAR.2018 10:10:30

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



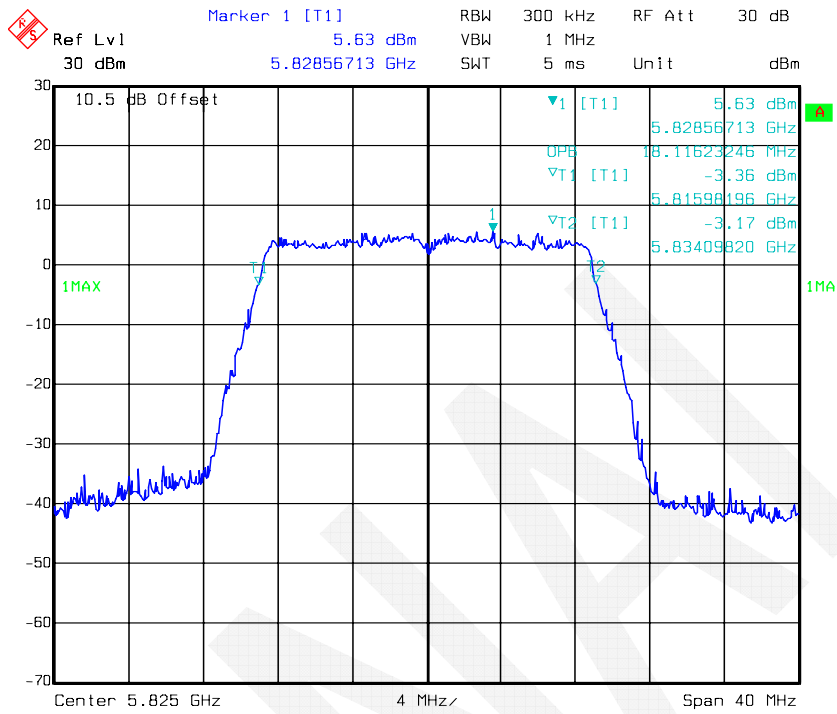
Date: 07.MAR.2018 10:28:35

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



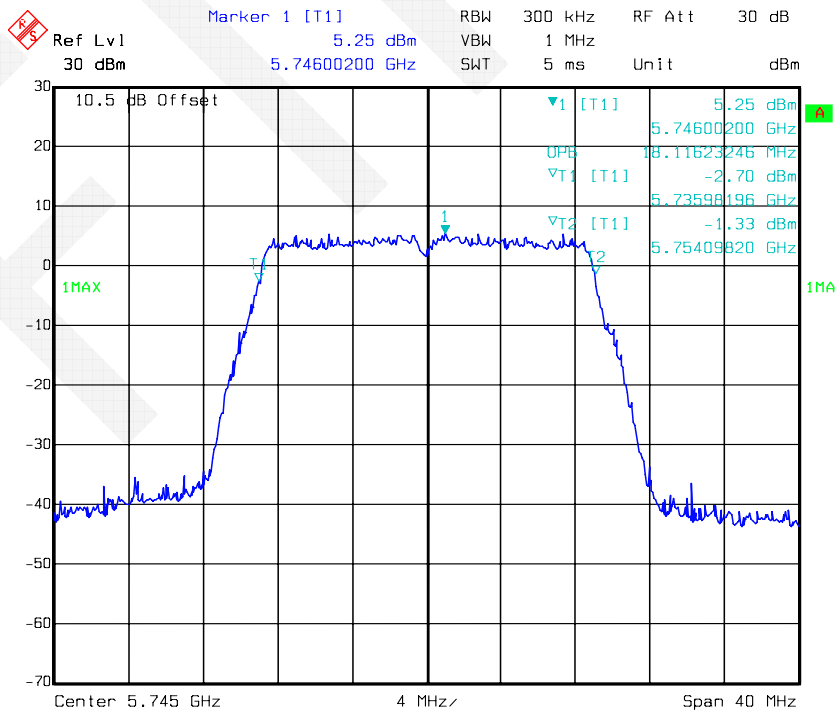
Date: 07.MAR.2018 10:29:57

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



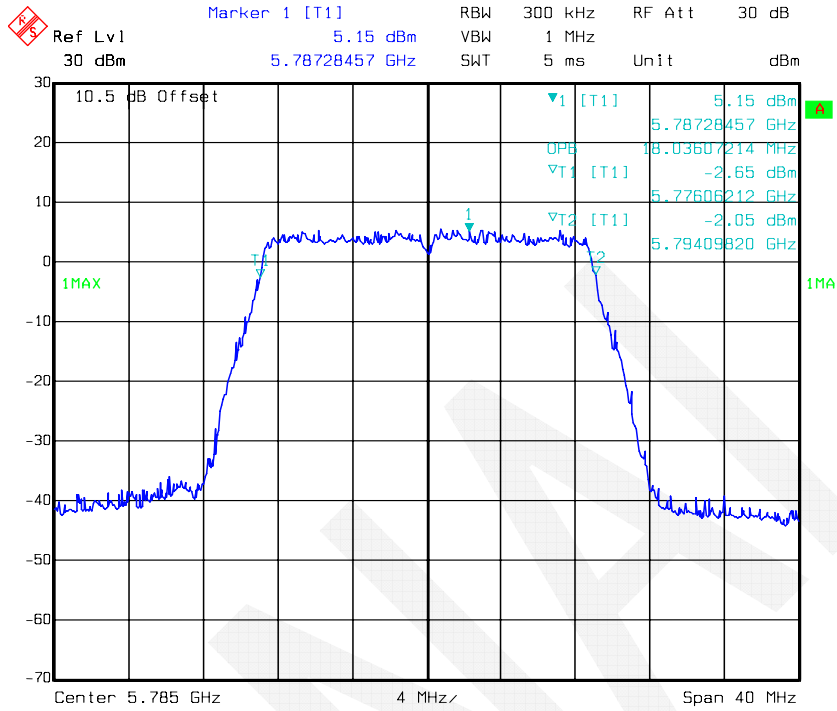
Date: 07.MAR.2018 10:31:22

802.11n-HT20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 2



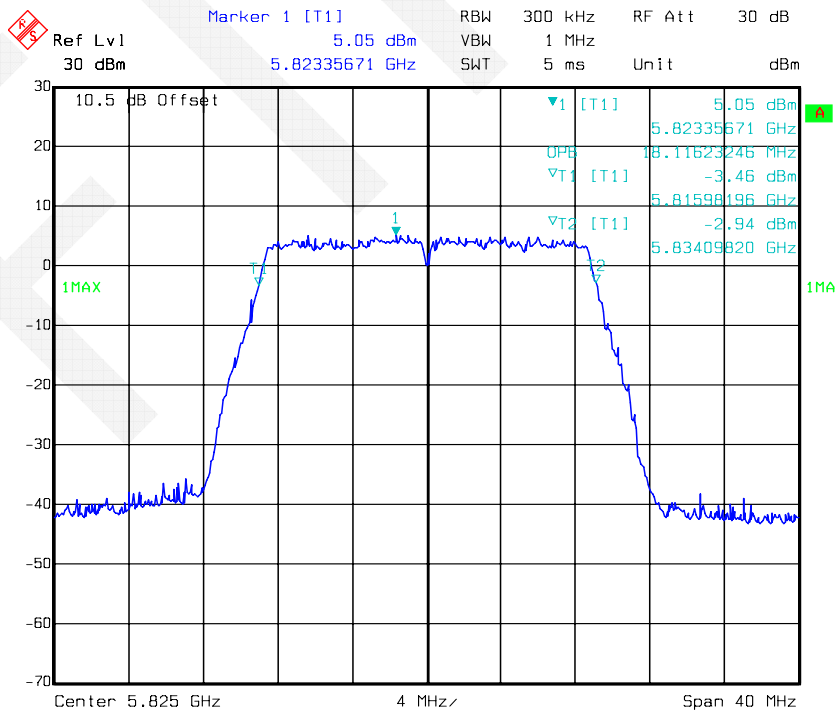
Date: 07.MAR.2018 11:07:18

802.11n-HT20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 2



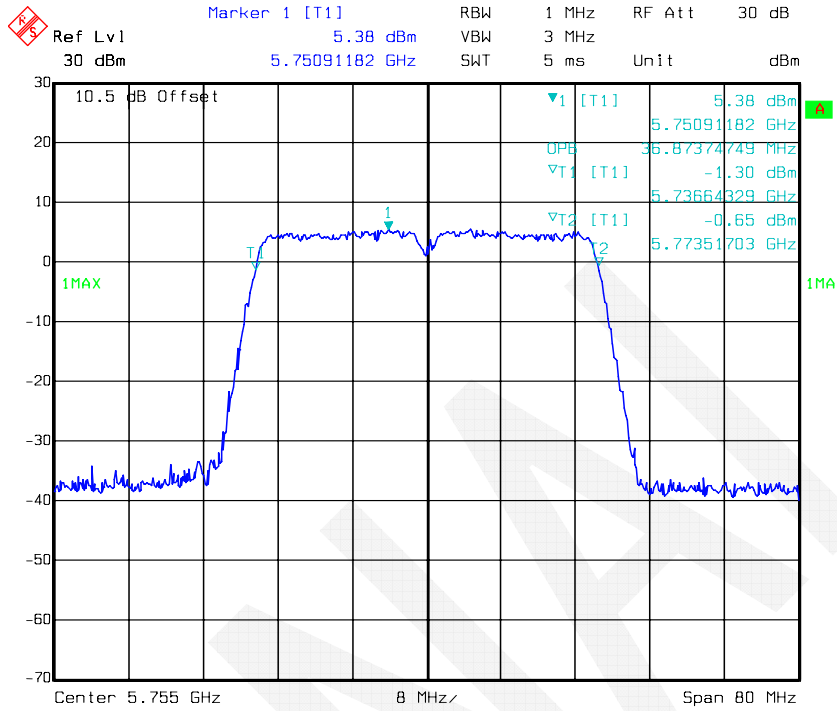
Date: 07.MAR.2018 11:08:47

802.11n-HT20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 2



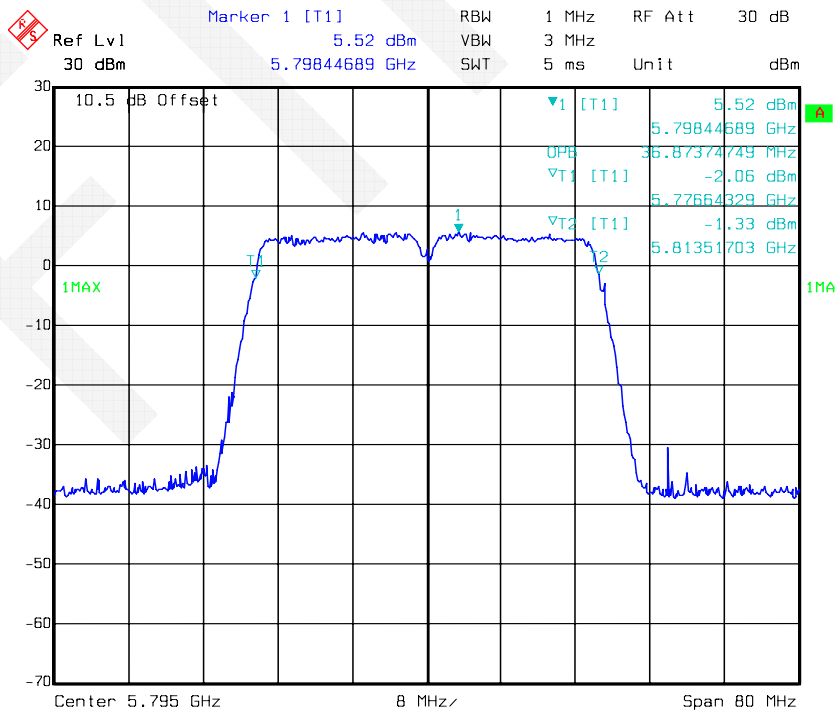
Date: 07.MAR.2018 11:10:12

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



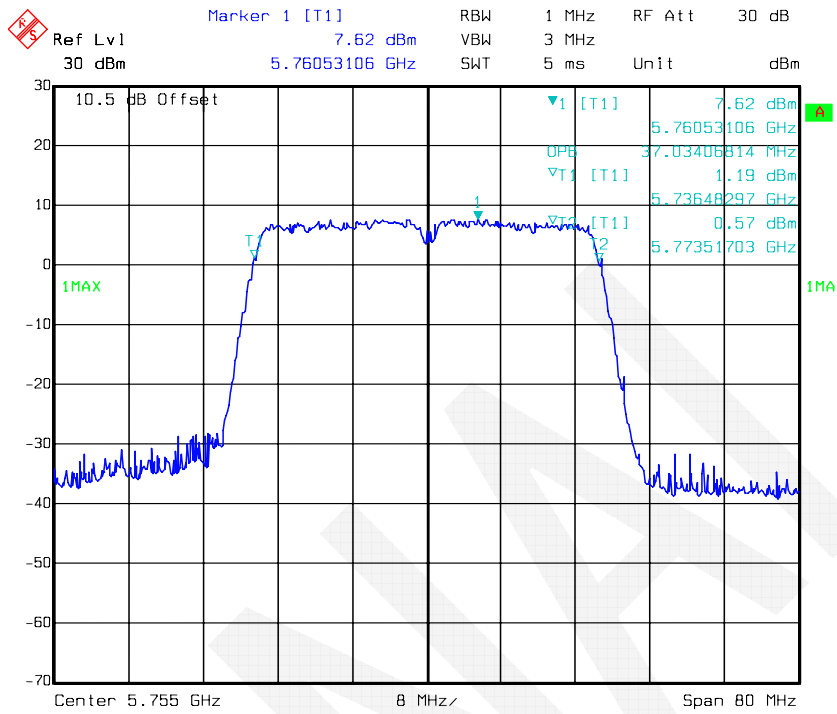
Date: 07.MAR.2018 10:13:47

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



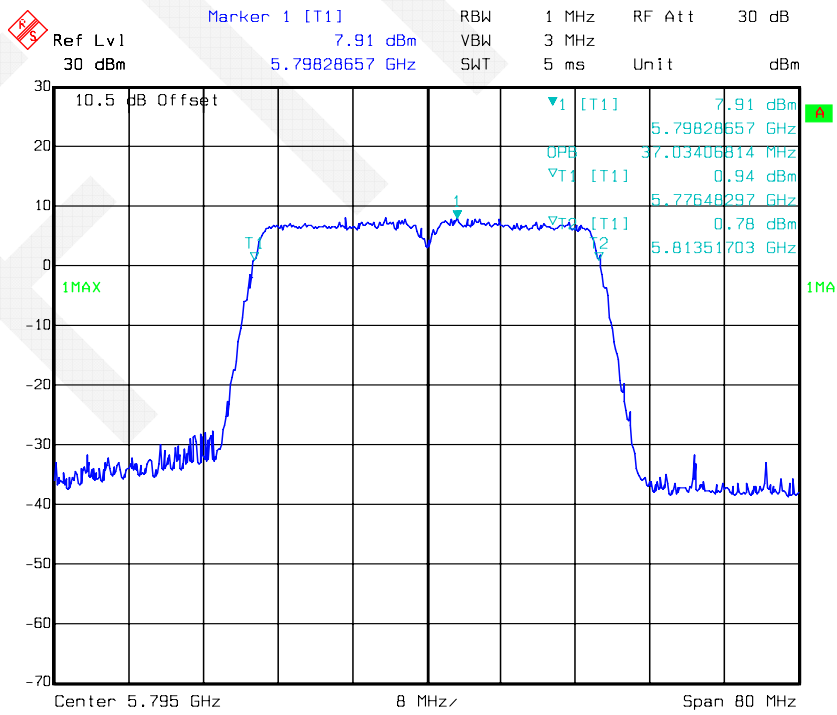
Date: 07.MAR.2018 10:15:05

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



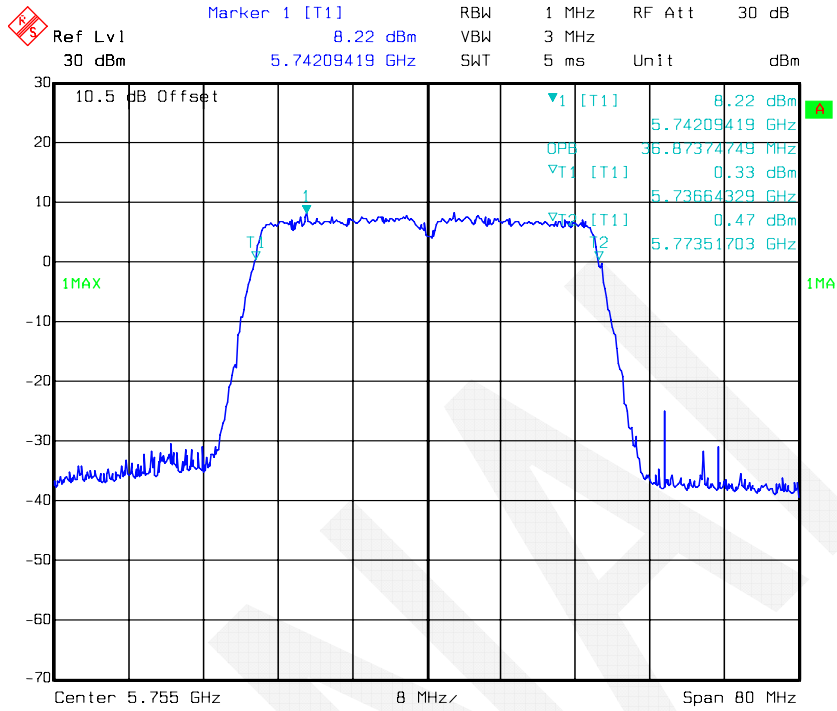
Date: 07.MAR.2018 10:37:15

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



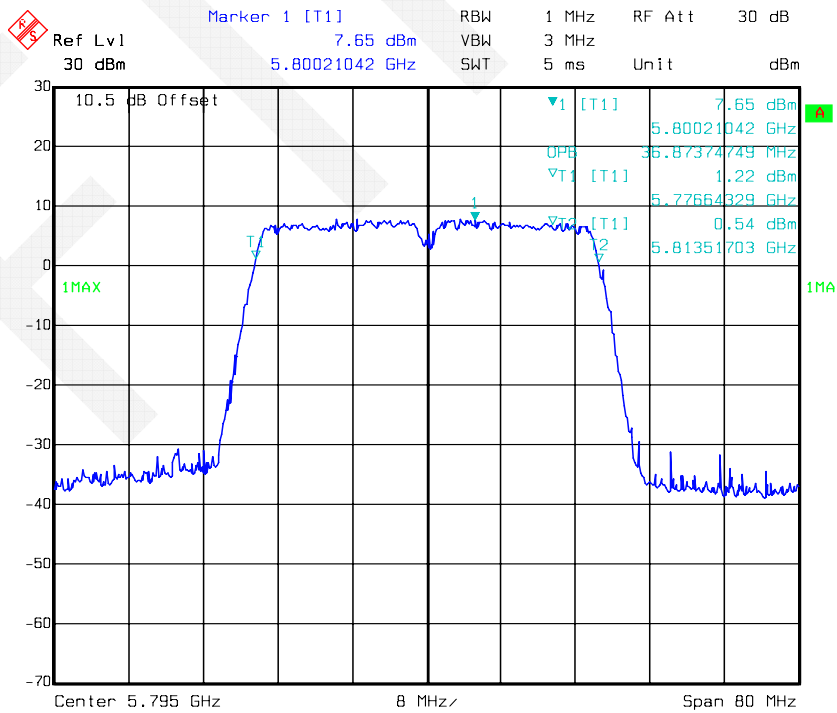
Date: 07.MAR.2018 10:38:46

802.11n-HT40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 2



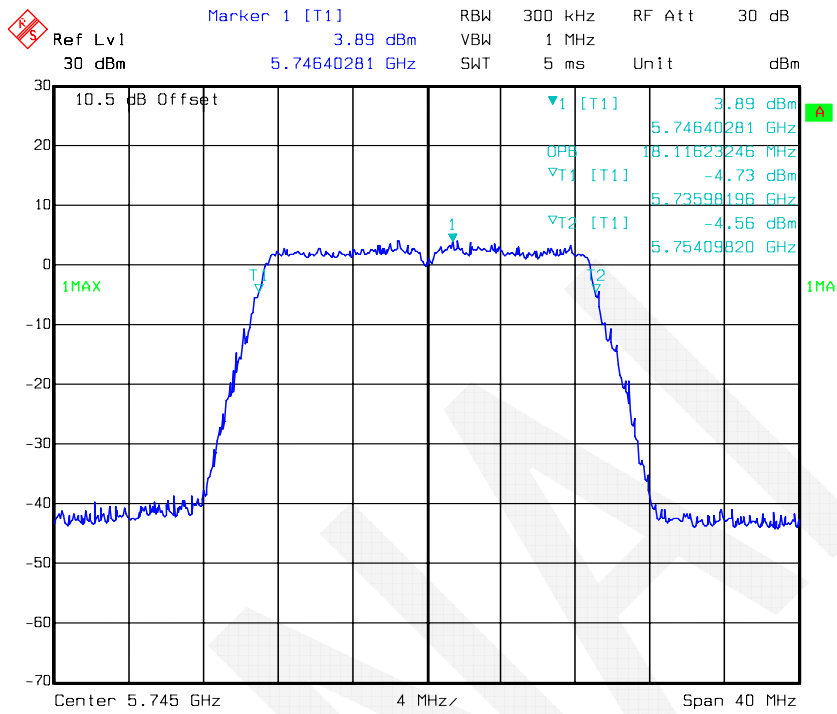
Date: 07.MAR.2018 11:15:52

802.11n-HT40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 2



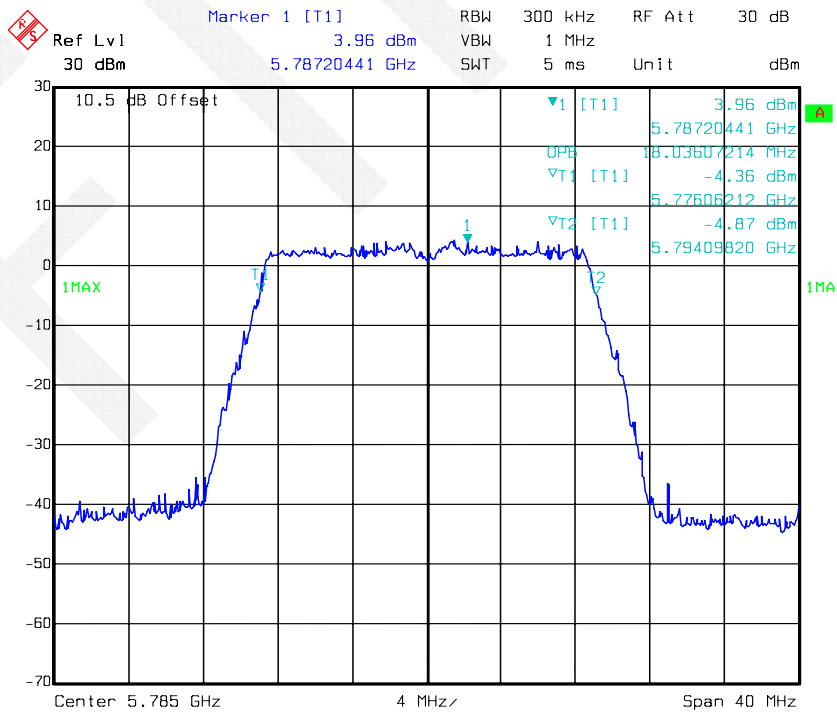
Date: 07.MAR.2018 11:17:13

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



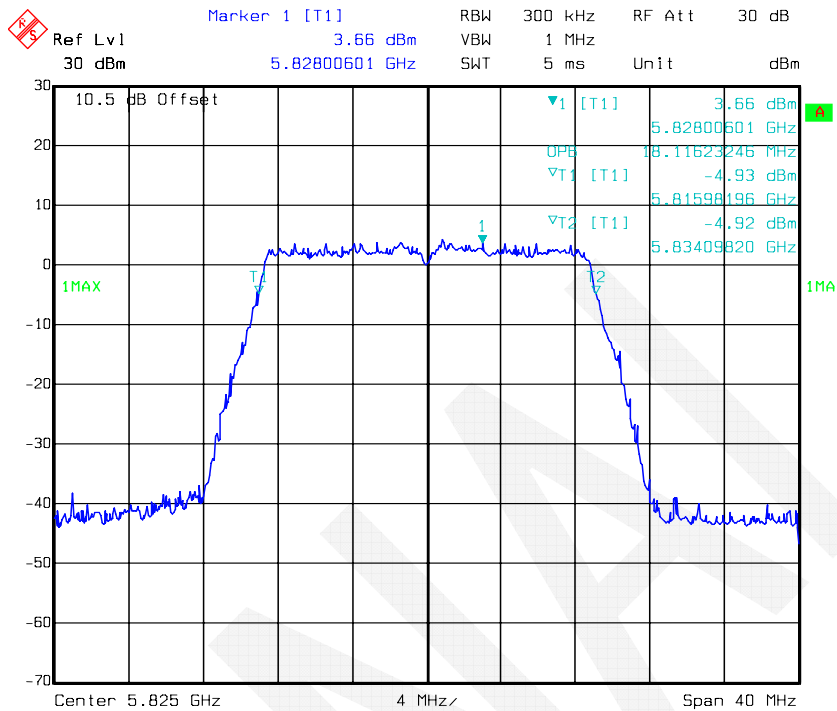
Date: 07.MAR.2018 10:12:03

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

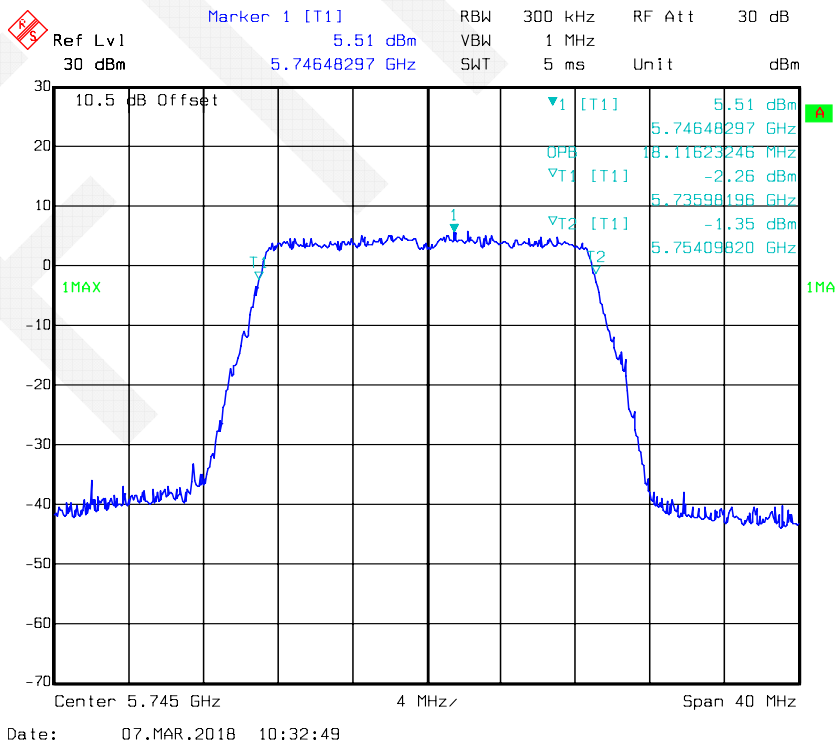


Date: 07.MAR.2018 10:51:58

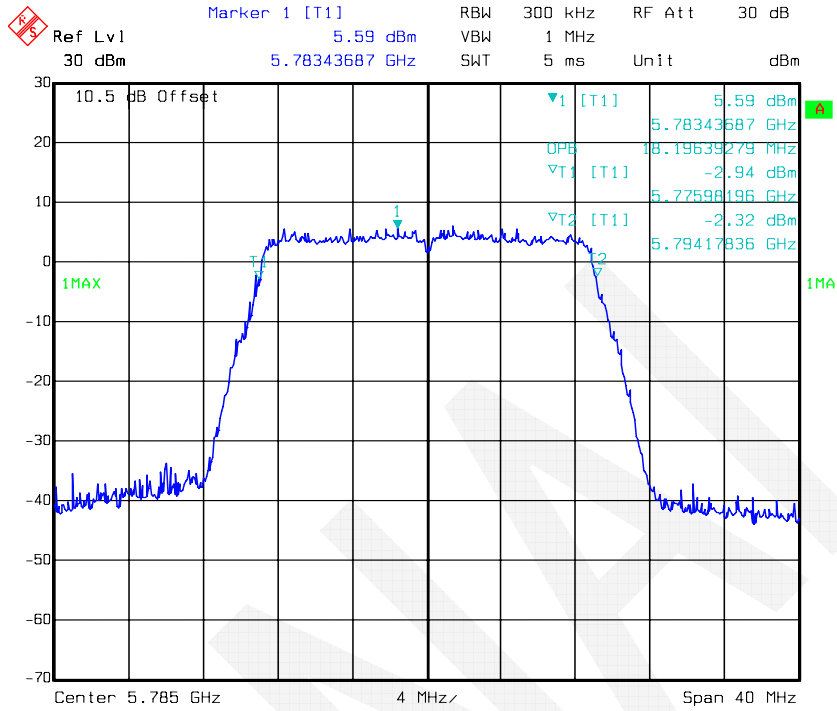
802.11ac20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 0



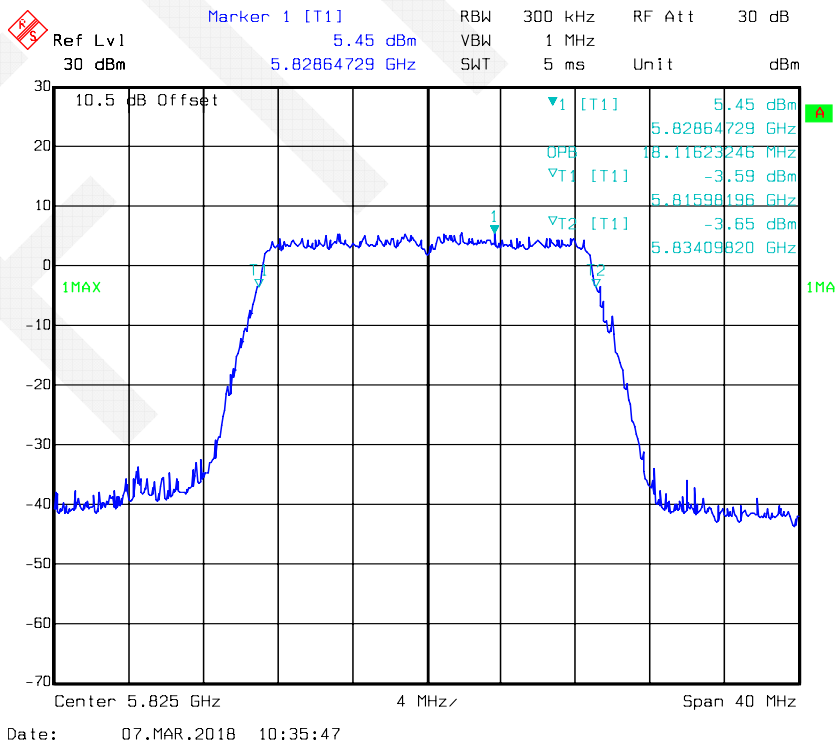
802.11ac20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 1



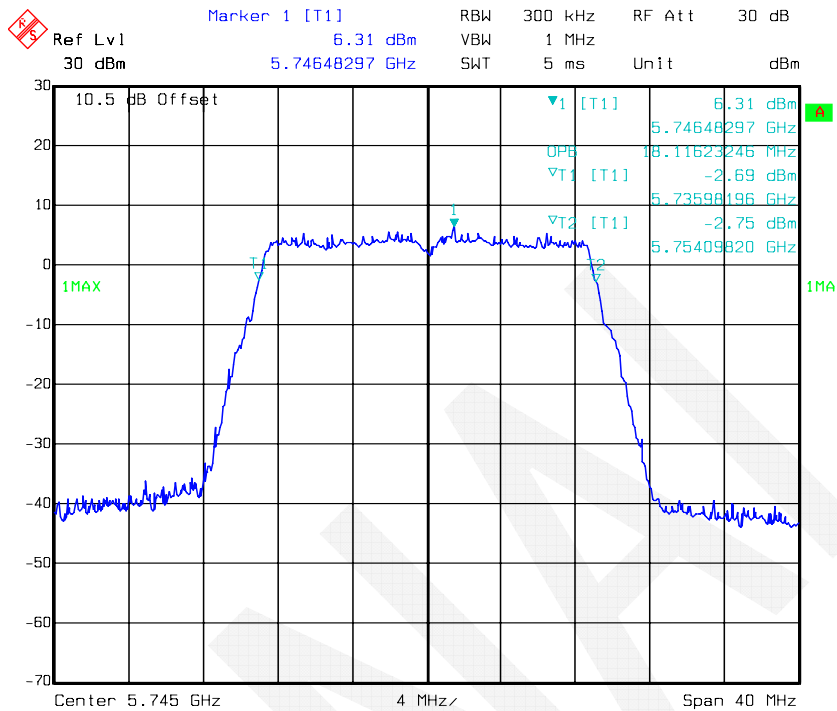
802.11ac20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 1



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

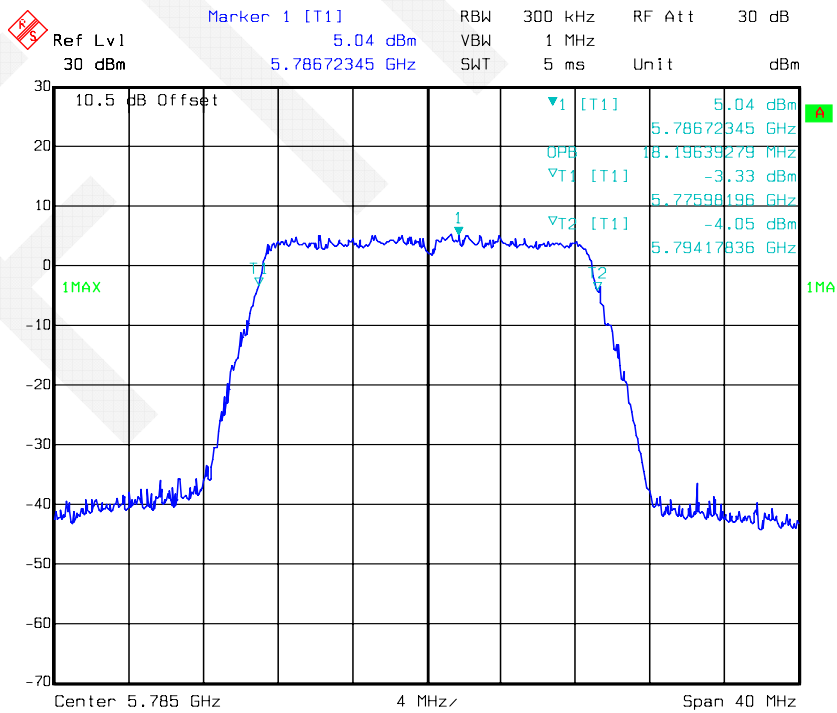


802.11ac20 mode, 99% Occupied Bandwidth-5745 MHz, Antenna 2



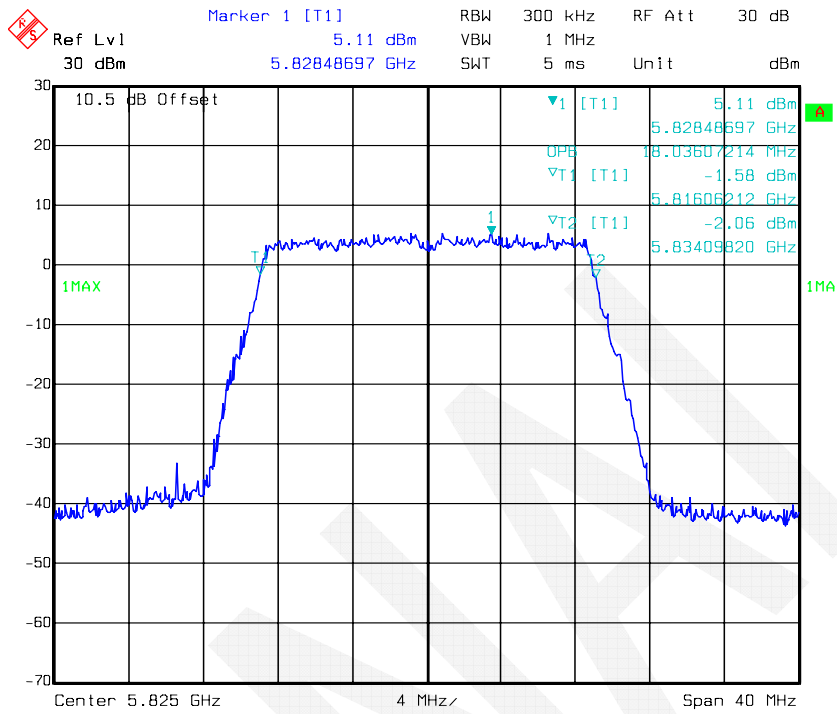
Date: 07.MAR.2018 11:11:39

802.11ac20 mode, 99% Occupied Bandwidth-5785 MHz, Antenna 2



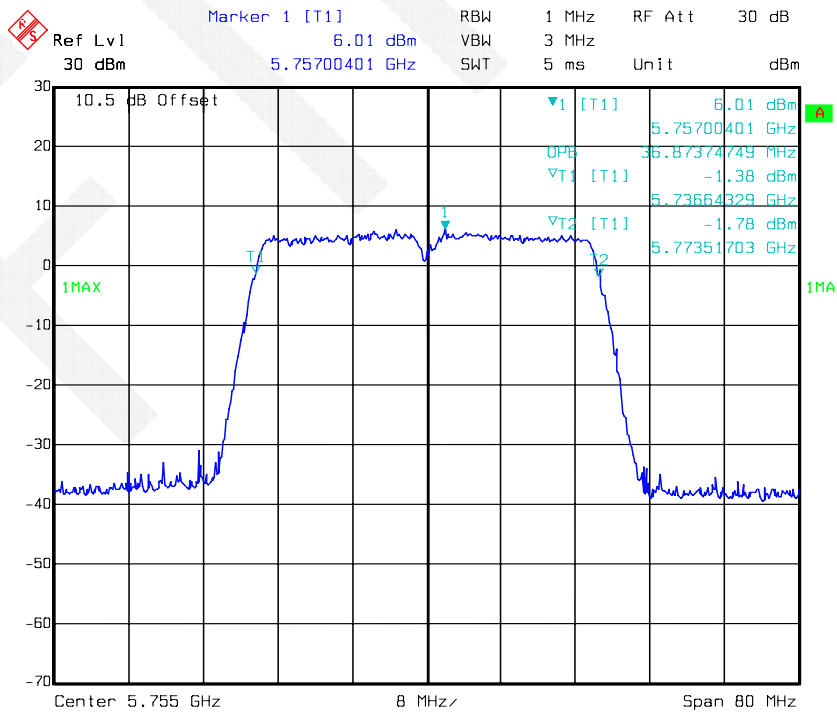
Date: 07.MAR.2018 11:12:59

802.11ac20 mode, 99% Occupied Bandwidth-5825 MHz, Antenna 2



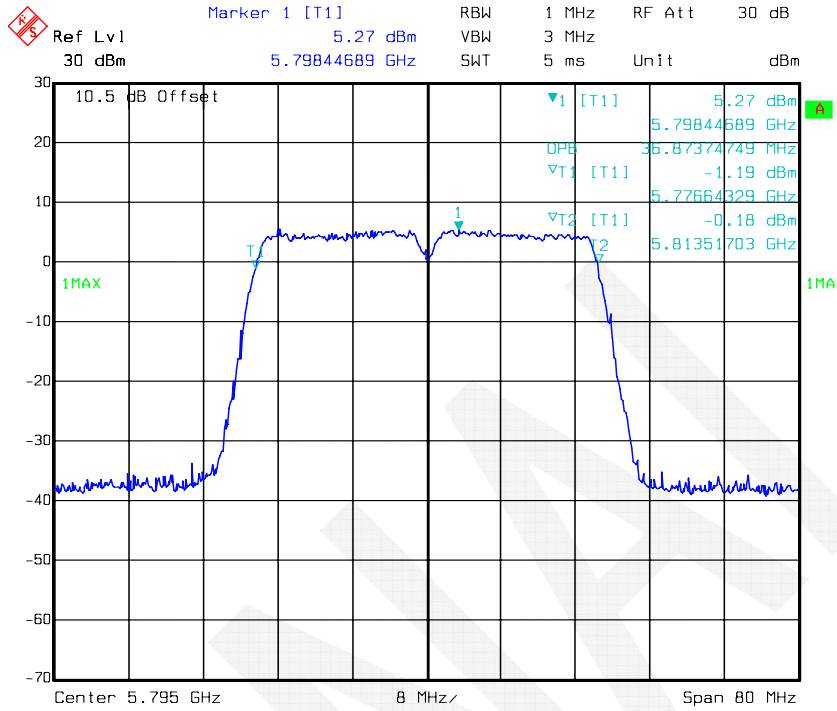
Date: 07.MAR.2018 11:14:26

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

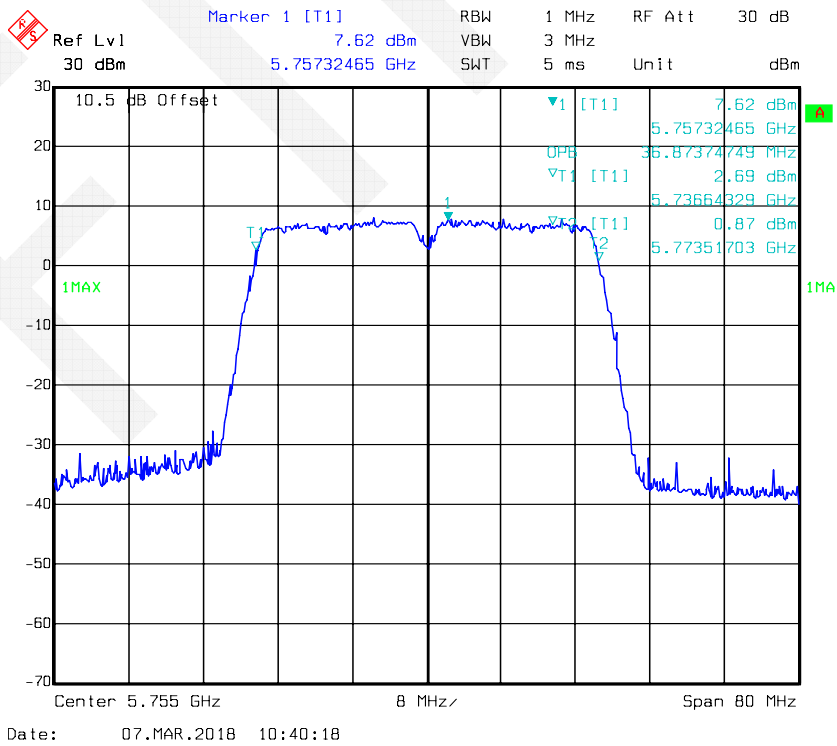


Date: 07.MAR.2018 10:16:29

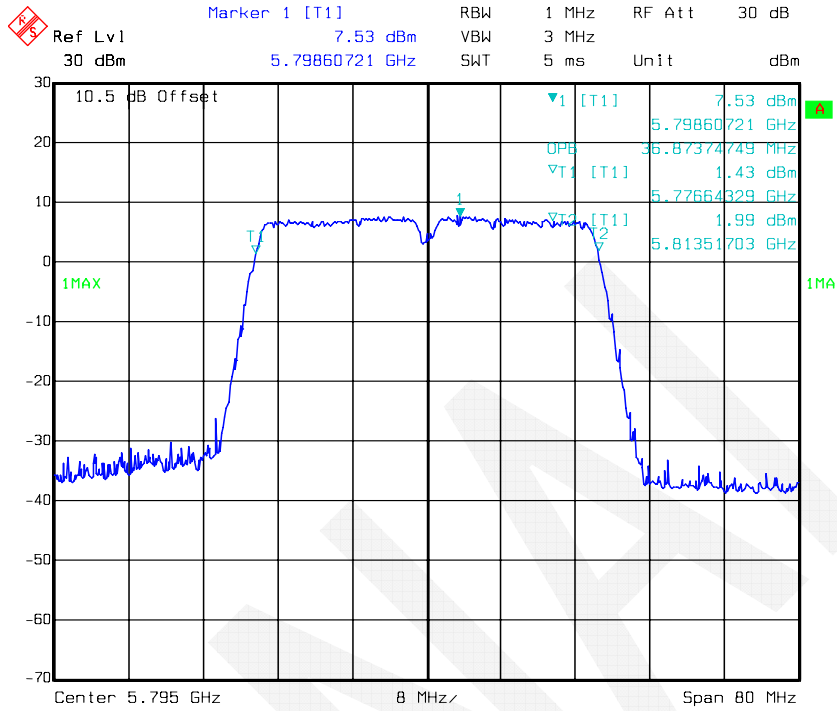
802.11ac40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 0



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

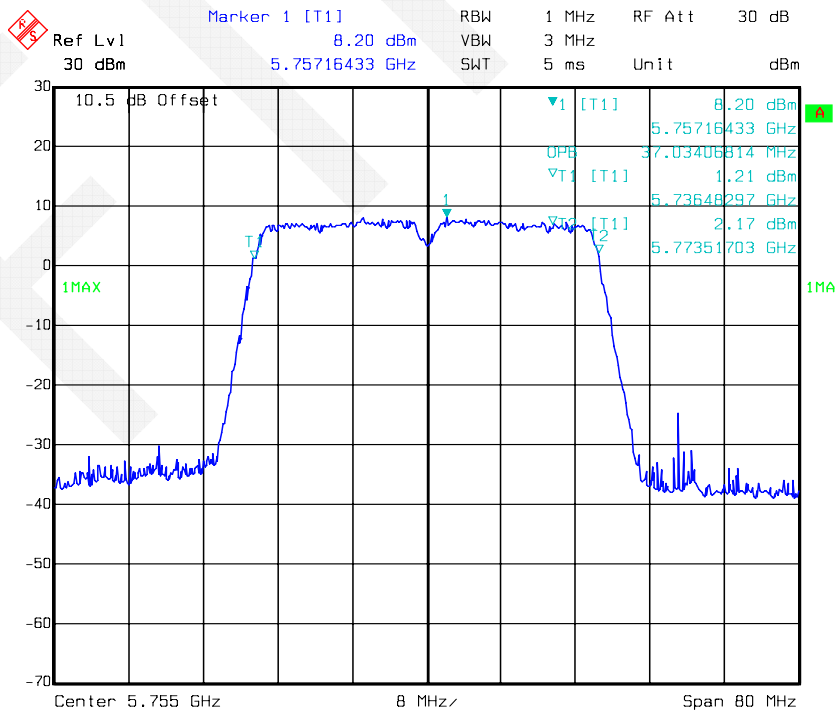


802.11ac40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 1



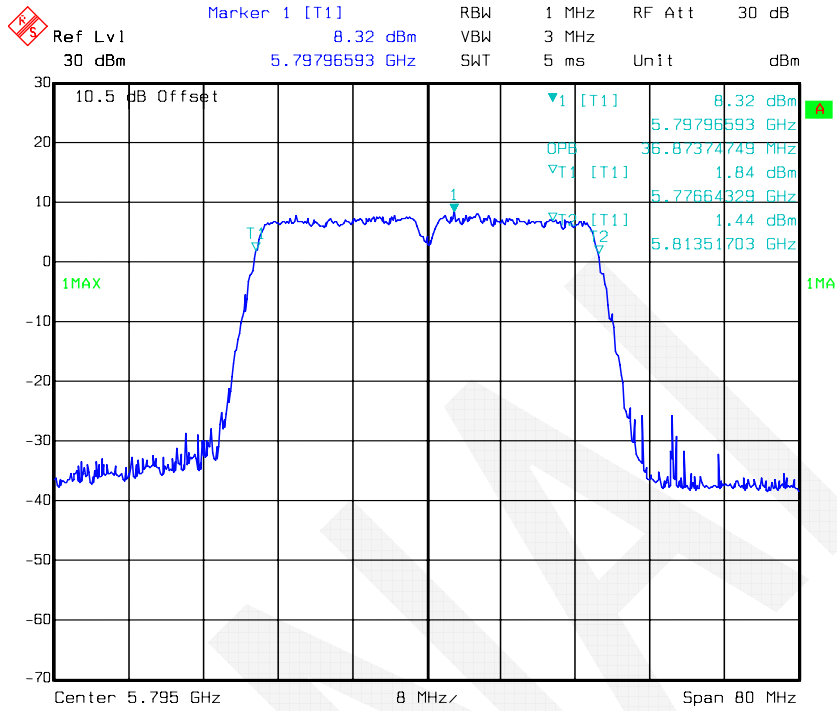
Date: 07.MAR.2018 10:41:42

802.11ac40 mode, 99% Occupied Bandwidth-5755 MHz, Antenna 2



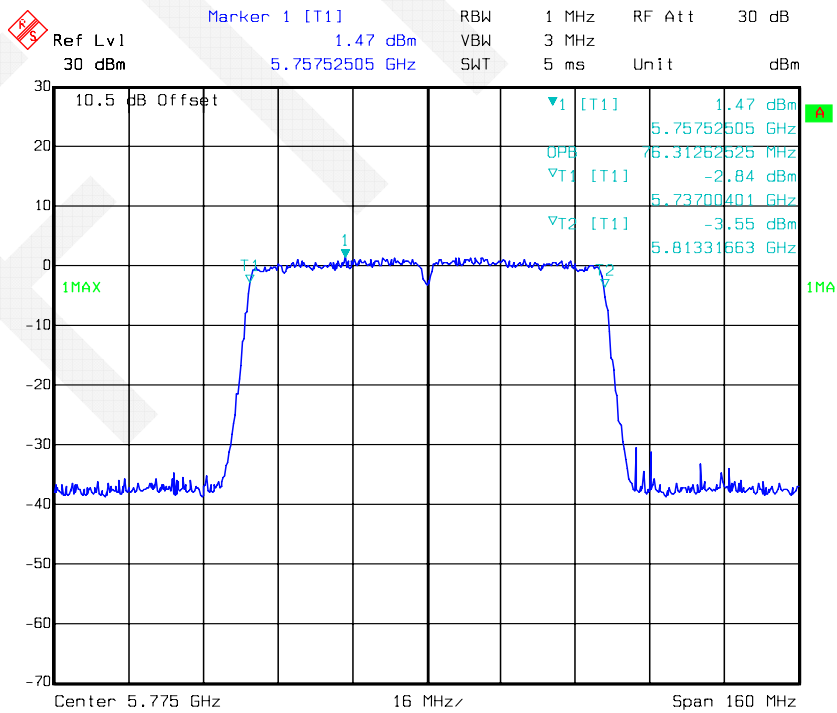
Date: 07.MAR.2018 11:20:18

802.11ac40 mode, 99% Occupied Bandwidth-5795 MHz, Antenna 2



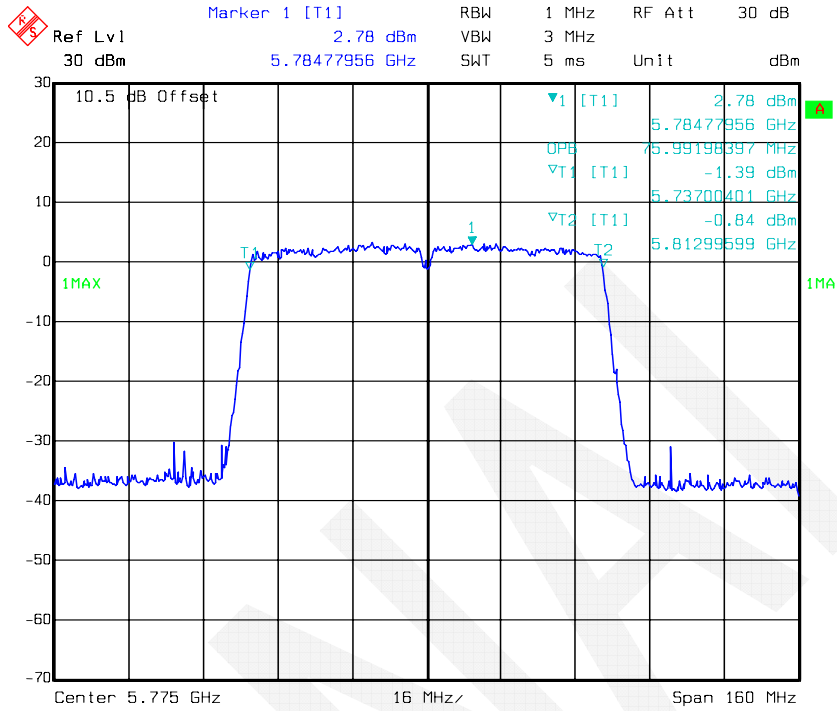
Date: 07.MAR.2018 11:21:37

802.11ac80 mode, 99% Occupied Bandwidth-5775 MHz, Antenna 0



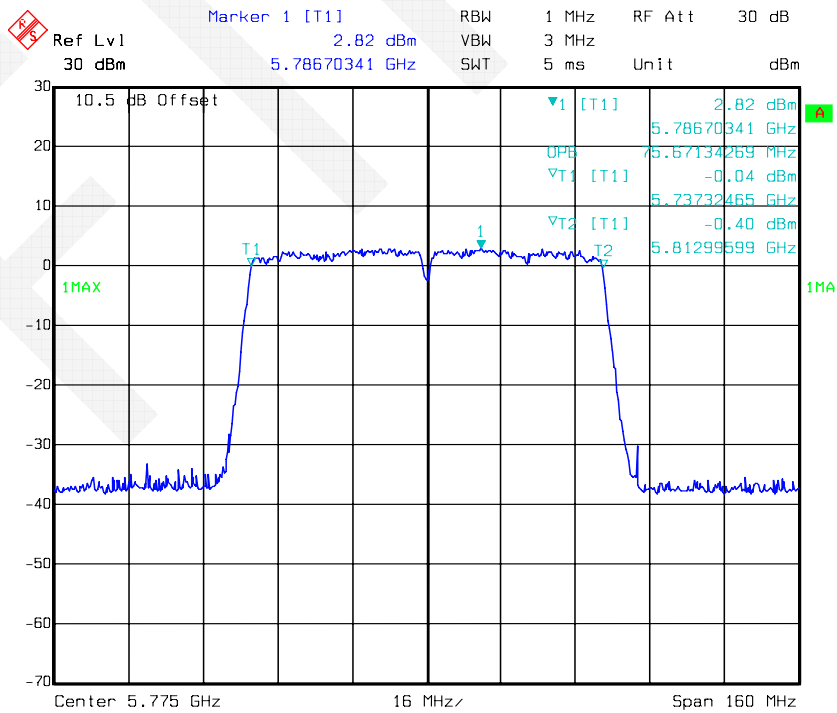
Date: 07.MAR.2018 10:19:17

802.11ac80 mode, 99% Occupied Bandwidth-5775 MHz, Antenna 1



Date: 07.MAR.2018 10:44:02

802.11ac80 mode, 99% Occupied Bandwidth-5775 MHz, Antenna 2



Date: 07.MAR.2018 11:24:42

FCC §15.407(a) (1)(IV), (3), (4) – CONDUCTED TRANSMITTER OUTPUT POWER

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.

(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 v02r01

Test Data

Environmental Conditions

Temperature:	18 ~ 20 °C
Relative Humidity:	45 ~ 56 %
ATM Pressure:	95.2 ~ 96.2 kPa

* The testing was performed by Tom Tang on 2018-03-06 ~ 2018-03-07.

Test Mode: Transmitting

For 5150-5250 MHz:

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)			Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1	Antenna 2		
802.11a	Low	5180	11.79	12.61	12.57	17.11	30
	Middle	5200	11.84	12.72	12.60	17.17	30
	High	5240	11.58	12.62	12.44	17.01	30
802.11n-HT20	Low	5180	11.84	12.69	12.55	17.15	30
	Middle	5200	11.80	12.66	12.53	17.12	30
	High	5240	11.51	12.63	12.50	17.01	30
802.11n-HT40	Low	5190	11.45	12.34	12.18	16.78	30
	High	5230	11.27	12.32	12.11	16.69	30
802.11ac20	Low	5180	12.10	12.76	12.57	17.26	30
	Middle	5200	11.99	12.81	12.58	17.24	30
	High	5240	11.65	12.64	12.48	17.05	30
802.11ac40	Low	5190	11.50	12.38	12.34	16.86	30
	High	5230	11.33	12.23	12.11	16.68	30
802.11ac 80	-	5210	9.26	10.54	10.01	14.74	30

For 5725-5850 MHz:

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)			Total (dBm)	Limit (dBm)
			Antenna 0	Antenna 1	Antenna 2		
802.11a	Low	5745	13.55	15.26	15.24	19.53	30
	Middle	5785	13.67	15.16	15.21	19.51	30
	High	5825	13.63	15.28	15.10	19.50	30
802.11n-HT20	Low	5745	13.46	15.19	15.20	19.46	30
	Middle	5785	13.53	15.11	15.17	19.44	30
	High	5825	13.69	15.24	15.14	19.52	30
802.11n-HT40	Low	5755	12.32	14.48	14.56	18.67	30
	High	5795	12.40	14.62	14.57	18.75	30
802.11ac20	Low	5745	13.59	15.19	15.20	19.49	30
	Middle	5785	13.67	15.26	15.14	19.52	30
	High	5825	13.63	15.22	15.08	19.47	30
802.11ac40	Low	5755	12.45	14.59	14.68	18.79	30
	High	5795	12.28	14.59	14.64	18.74	30
802.11ac 80	-	5775	11.43	13.09	13.06	17.36	30

Note:

1. The max antenna gain is 5dBi.
2. 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 NANT ≤ 4;

So:

Directional gain = GANT + Array Gain = 5 dBi < 6dBi
 No Power Limit was reduced in SISO and MIMO mode.

FCC §15.407(a) (1) (iv) (3) (5) - POWER SPECTRAL DENSITY

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.
- (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 v02r01

Test Data

Environmental Conditions

Temperature:	18 ~ 20 °C
Relative Humidity:	45 ~ 56 %
ATM Pressure:	95.2 ~ 96.2 kPa

* The testing was performed by Tom Tang on 2018-03-06 ~ 2018-03-07.

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	Antenna 2		
802.11a	Low	5180	1.23	1.75	1.49	6.27	13.23
	Middle	5200	0.93	2.01	1.65	6.32	13.23
	High	5240	1.22	1.47	1.48	6.16	13.23
802.11n-HT20	Low	5180	0.90	1.54	1.25	6.01	13.23
	Middle	5200	0.61	1.48	1.22	5.89	13.23
	High	5240	0.49	1.52	1.35	5.91	13.23
802.11n-HT40	Low	5190	-2.77	-1.72	-1.43	2.83	13.23
	High	5230	-3.19	-1.64	-2.09	2.51	13.23
802.11ac20	Low	5180	1.04	1.88	1.60	6.29	13.23
	Middle	5200	0.89	1.67	1.54	6.15	13.23
	High	5240	0.61	1.65	1.26	5.97	13.23
802.11ac40	Low	5190	-2.07	-1.18	-1.92	3.07	13.23
	High	5230	-2.59	-1.88	-2.05	2.61	13.23
802.11ac80	-	5210	-7.98	-6.77	-7.40	-2.58	13.23

Note:

1. The max antenna gain is 5dBi.
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density measurements on IEEE 802.11 devices:

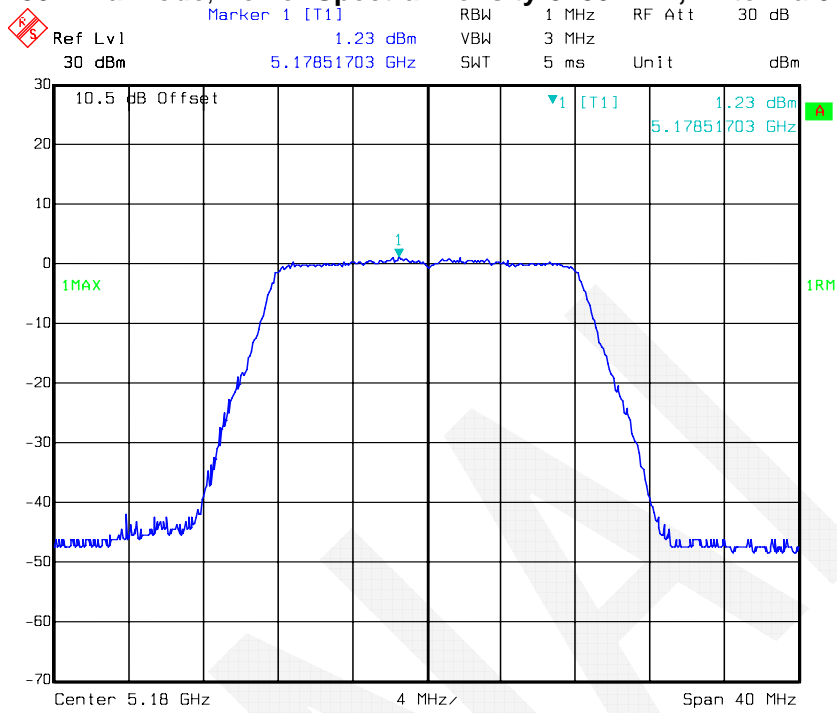
$$\text{Array Gain} = 10 \cdot \log(N_{\text{ANT}}/N_{\text{SS}}) \text{dB}$$

So:

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = 5 + 10 \cdot \log(3) = 9.77 \text{dBi} > 6 \text{dBi}$$

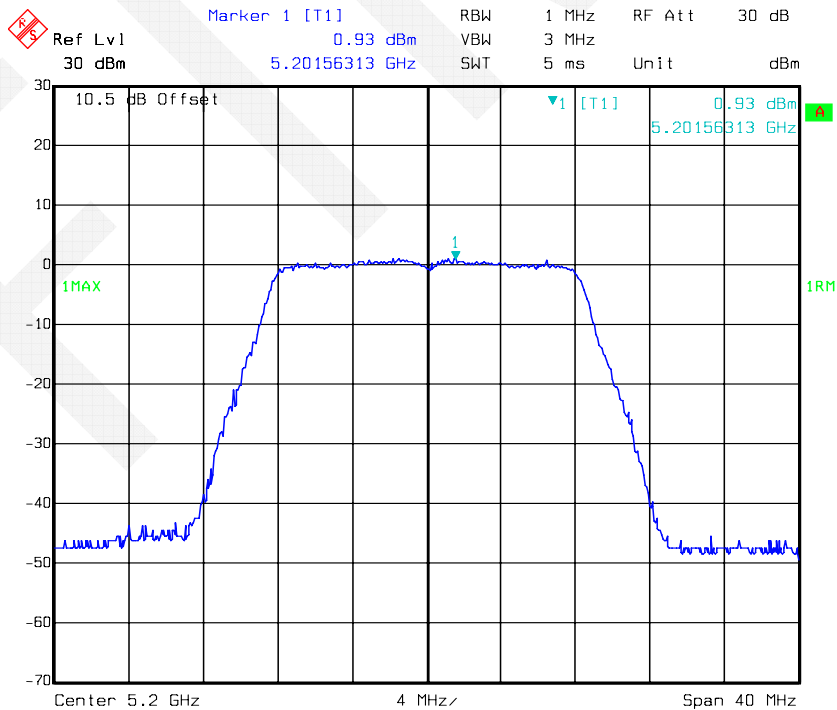
The power density Limit was reduced 3.77dB in MIMO mode.

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



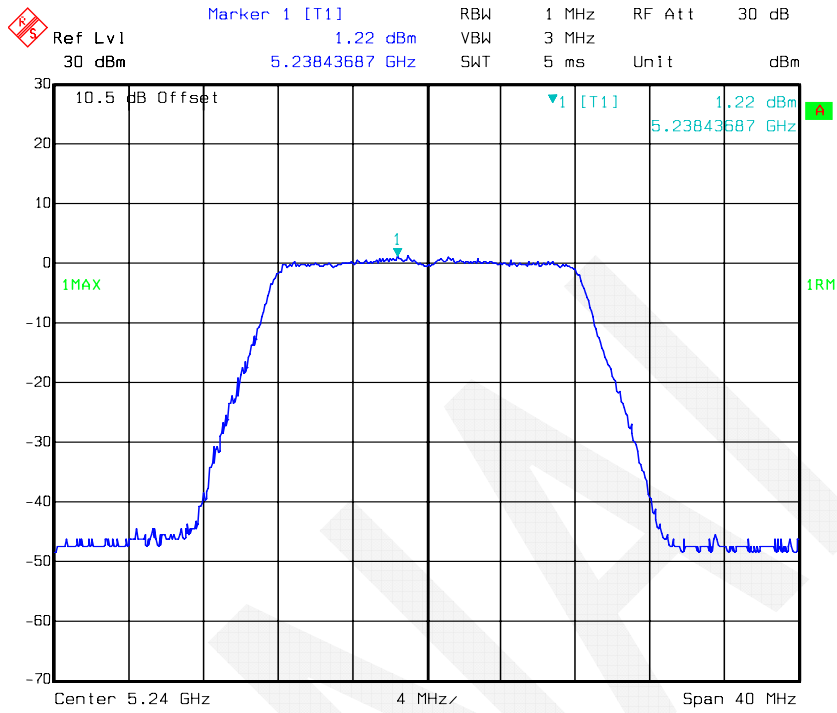
Date: 06.MAR.2018 11:27:13

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



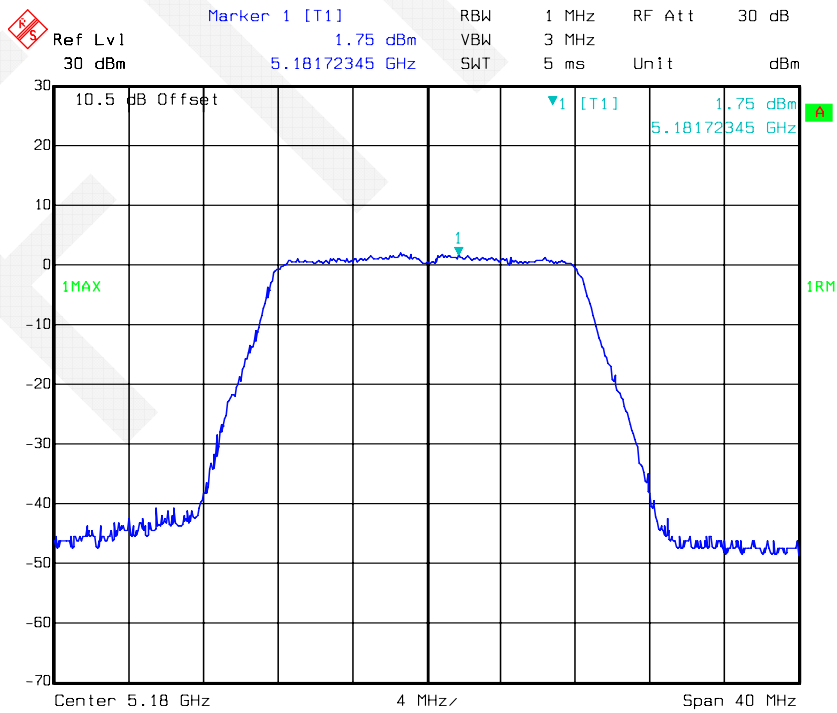
Date: 06.MAR.2018 11:54:36

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



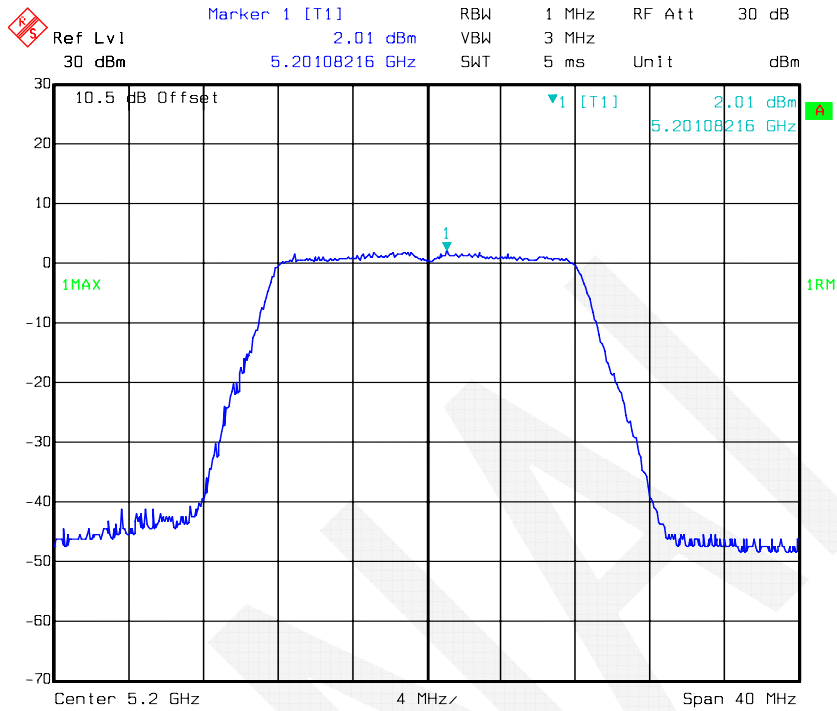
Date: 06.MAR.2018 11:52:25

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

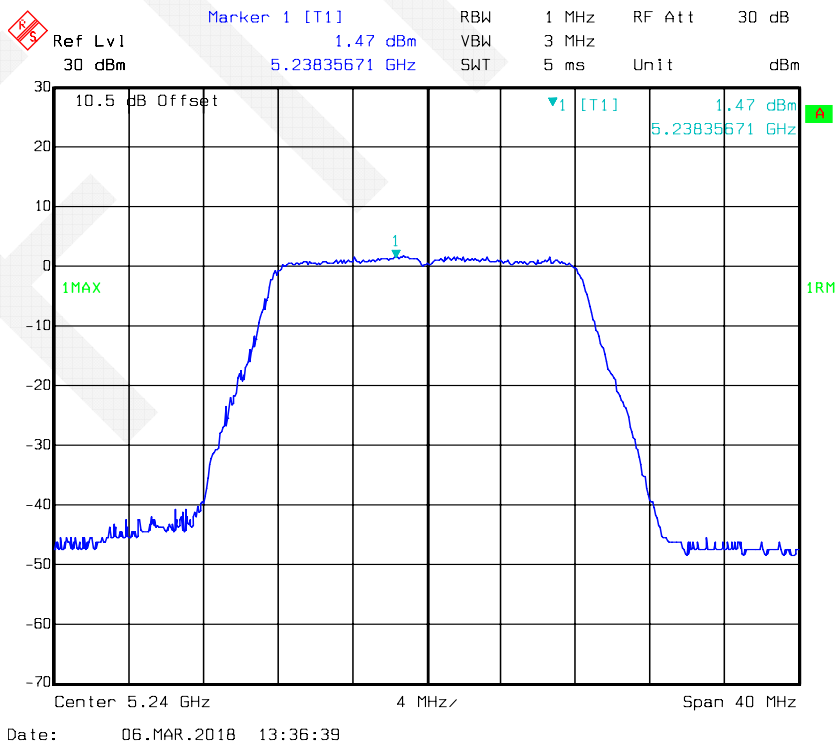


Date: 06.MAR.2018 13:34:07

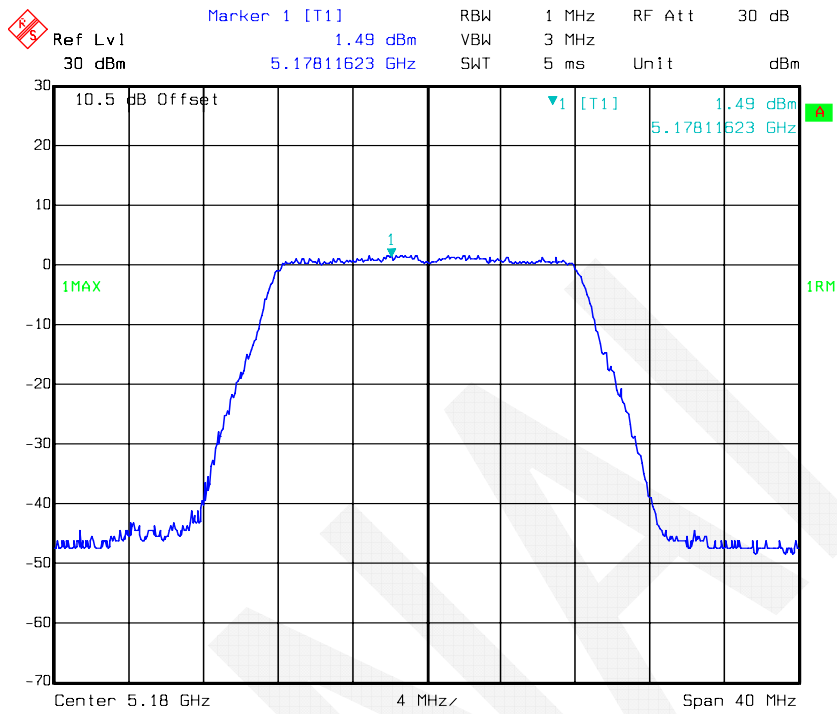
802.11a mode, Power Spectral Density-5200 MHz, Antenna 1



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

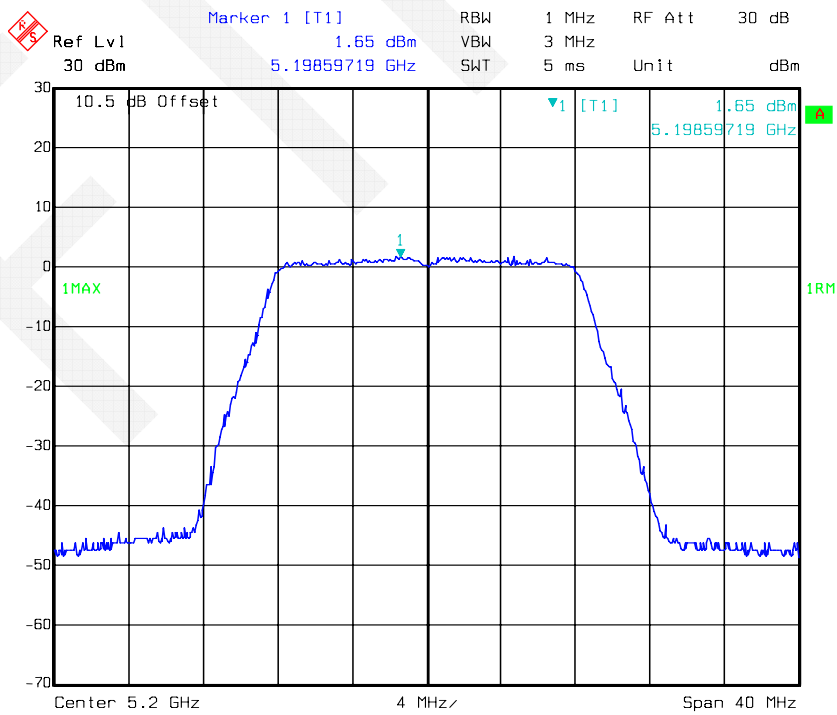


802.11a mode, Power Spectral Density-5180 MHz, Antenna 2



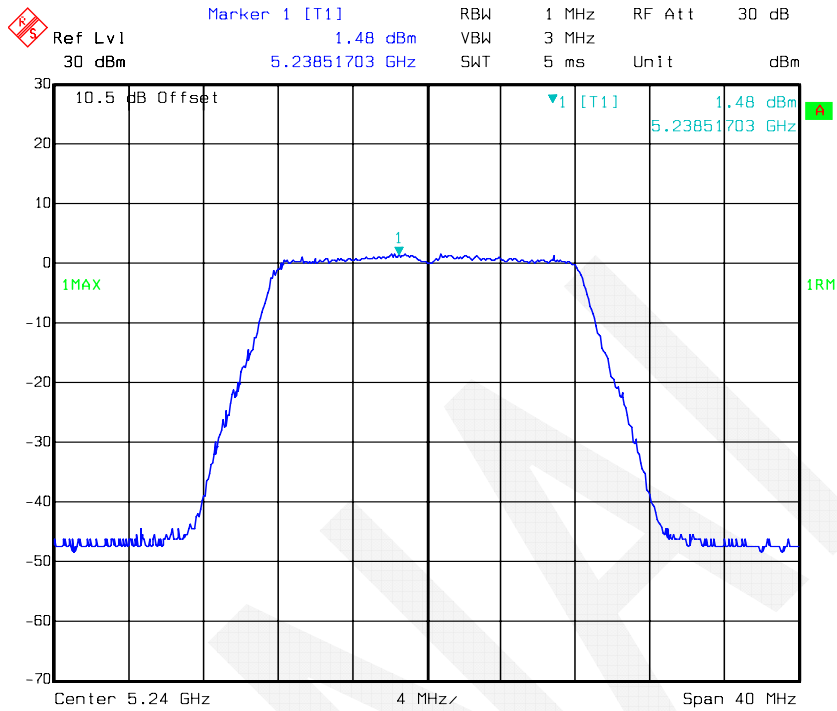
Date: 06.MAR.2018 14:00:52

802.11a mode, Power Spectral Density-5200 MHz, Antenna 2



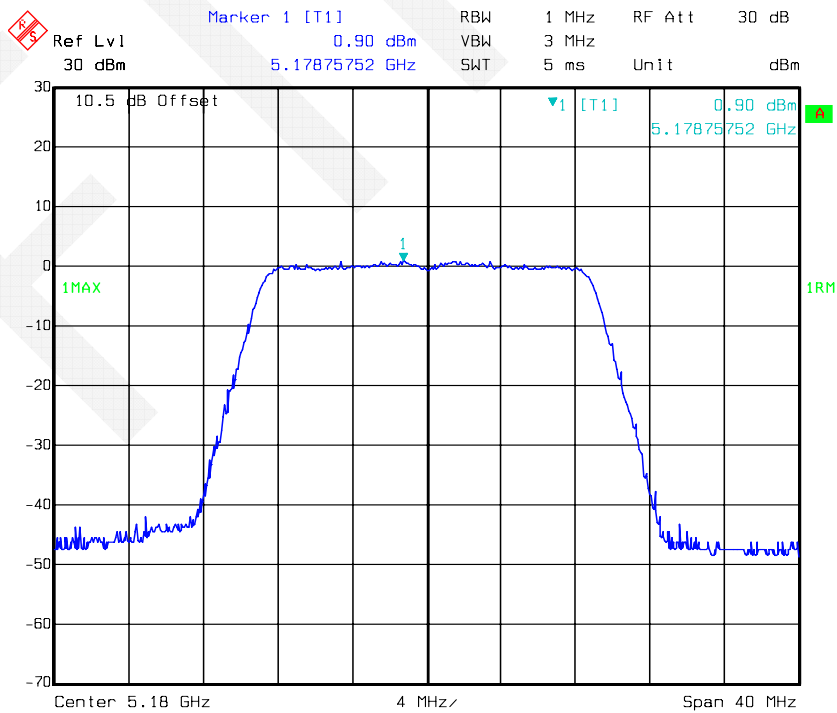
Date: 06.MAR.2018 14:02:26

802.11a mode, Power Spectral Density-5240 MHz, Antenna 2



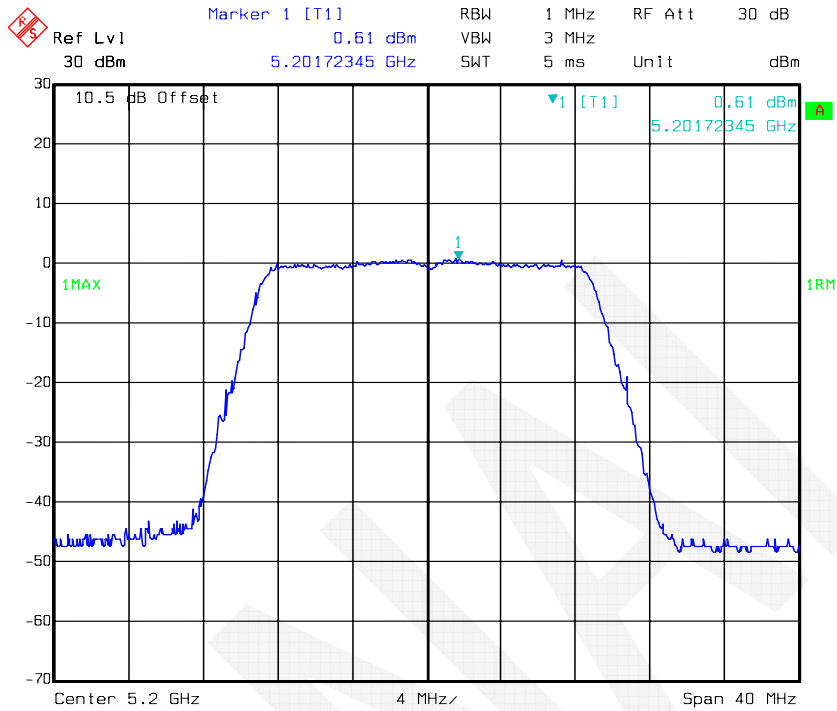
Date: 06.MAR.2018 14:03:30

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

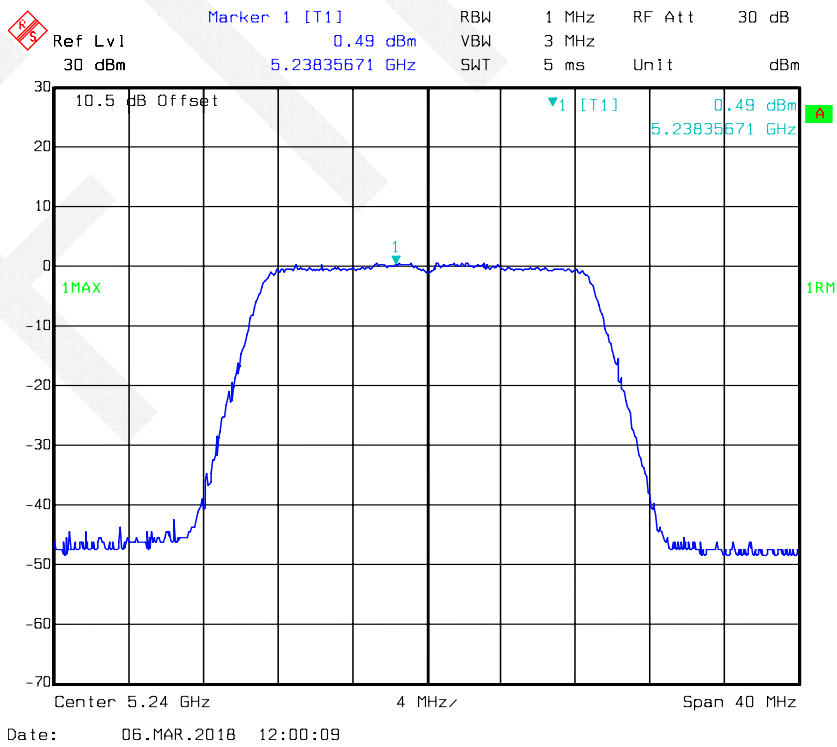


Date: 06.MAR.2018 11:57:11

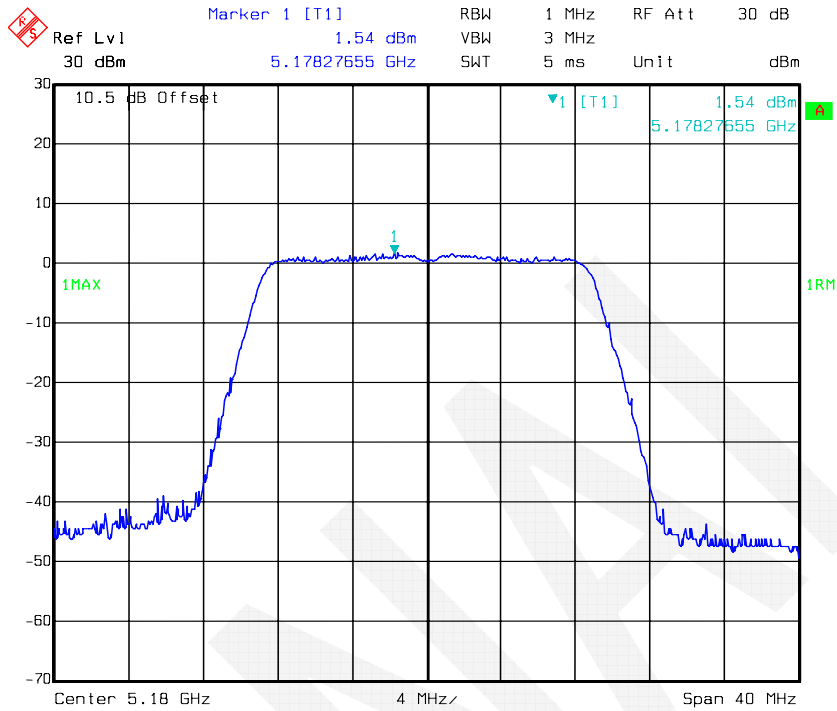
802.11n-HT20 mode, Power Spectral Density-5200 MHz, Antenna 0



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

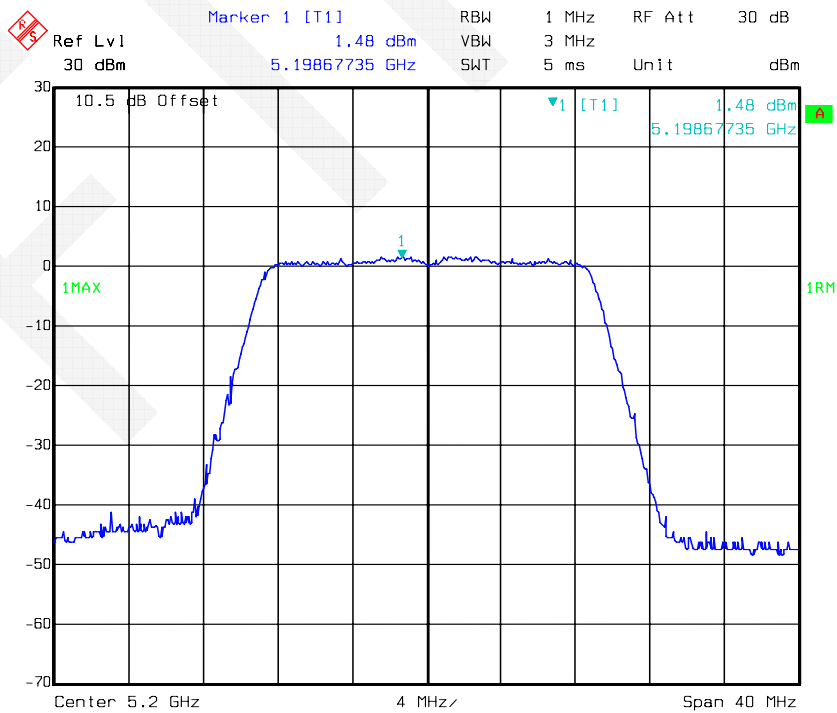


802.11n-HT20 mode, Power Spectral Density-5180 MHz, Antenna 1



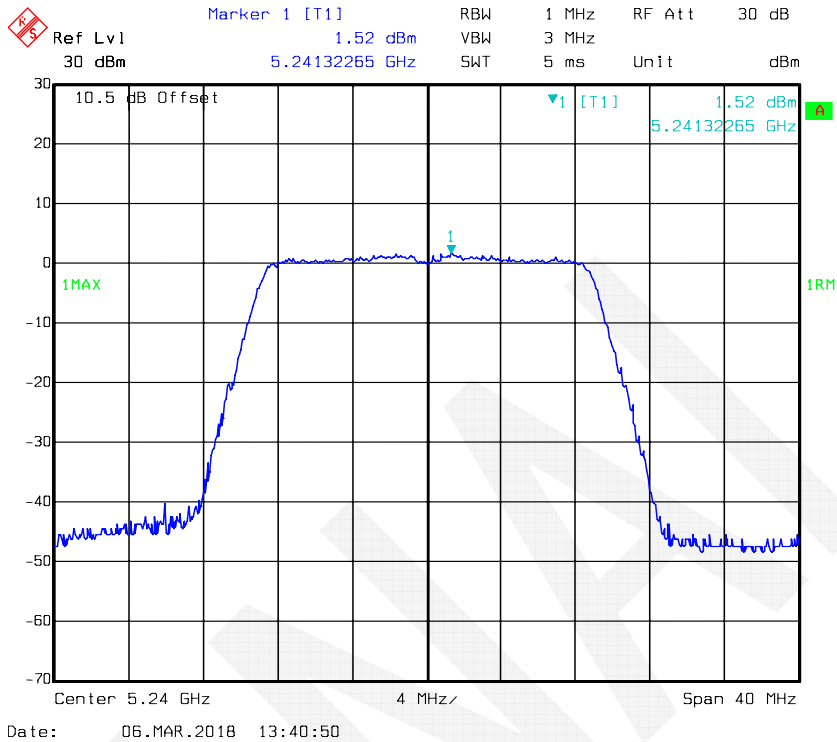
Date: 06.MAR.2018 13:38:14

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

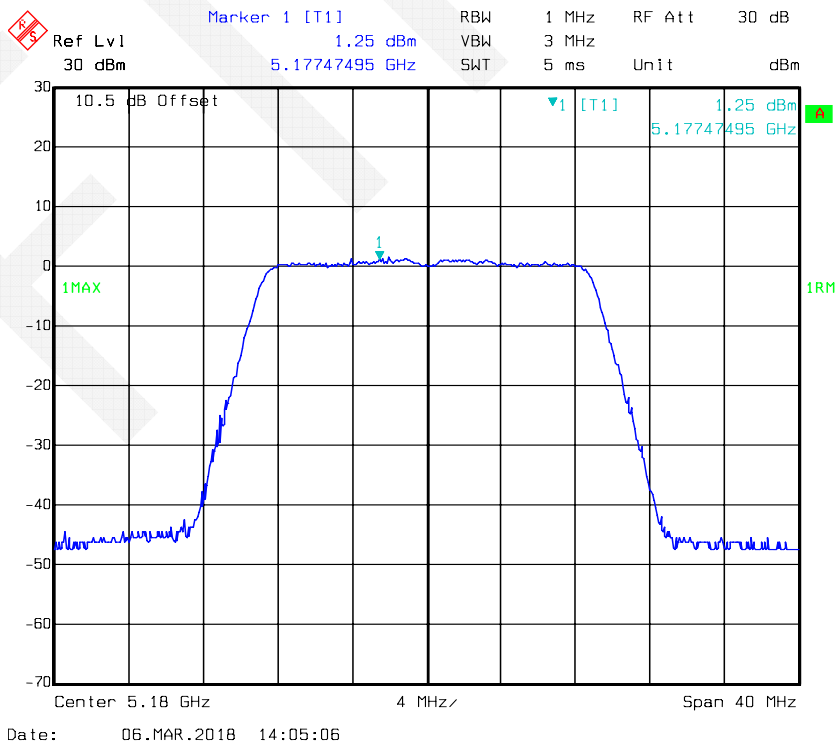


Date: 06.MAR.2018 13:39:40

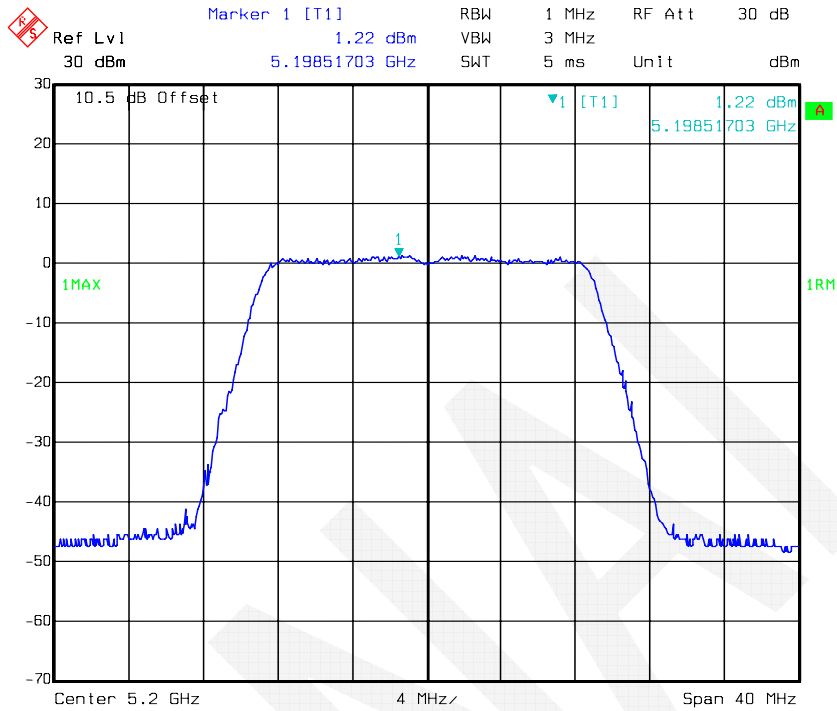
802.11n-HT20 mode, Power Spectral Density-5240 MHz, Antenna 1



802.11n-HT20 mode, Power Spectral Density-5180 MHz, Antenna 2

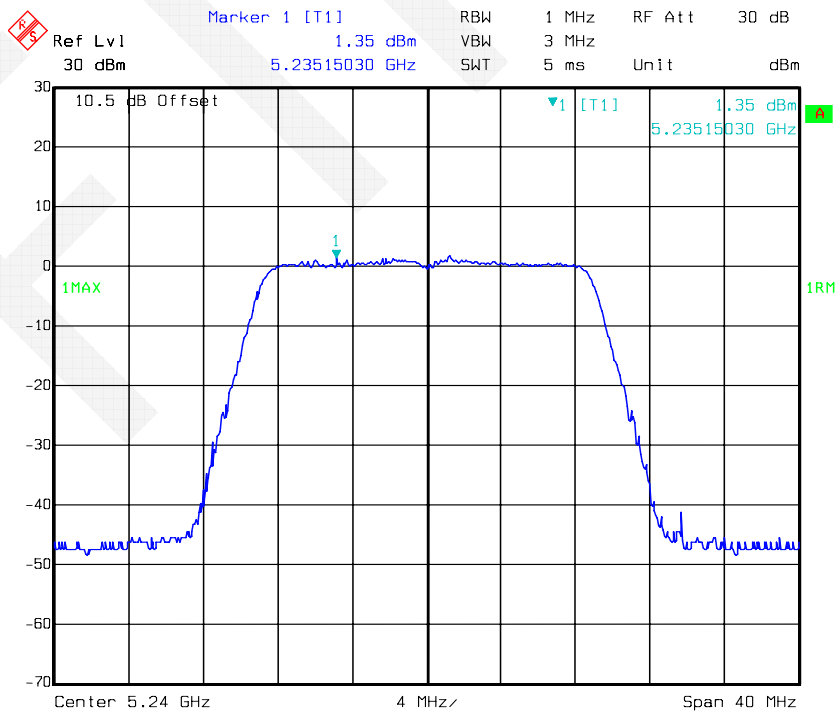


802.11n-HT20 mode, Power Spectral Density-5200 MHz, Antenna 2



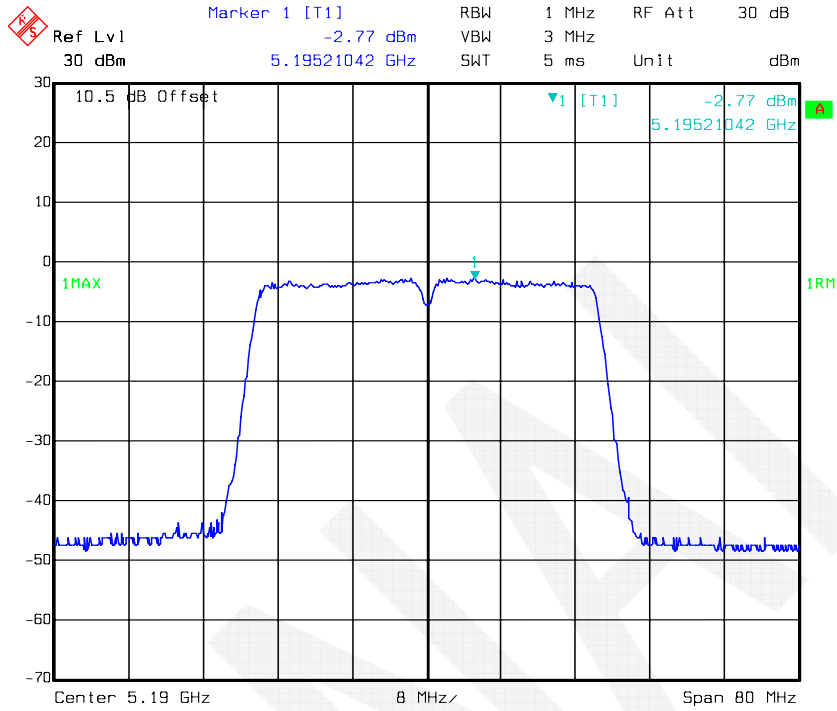
Date: 06.MAR.2018 14:06:37

802.11n-HT20 mode, Power Spectral Density-5240 MHz, Antenna 2



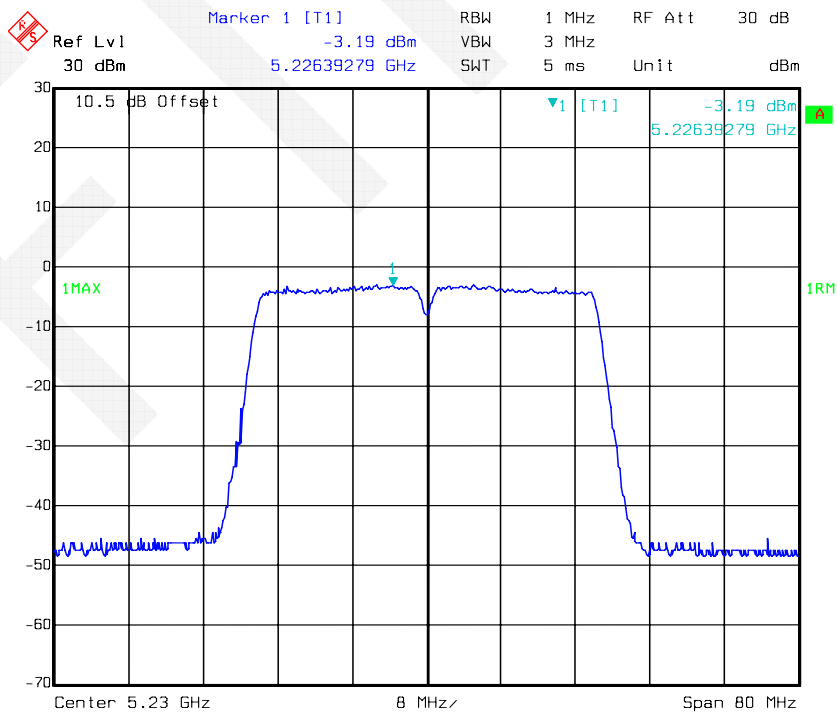
Date: 06.MAR.2018 14:07:47

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



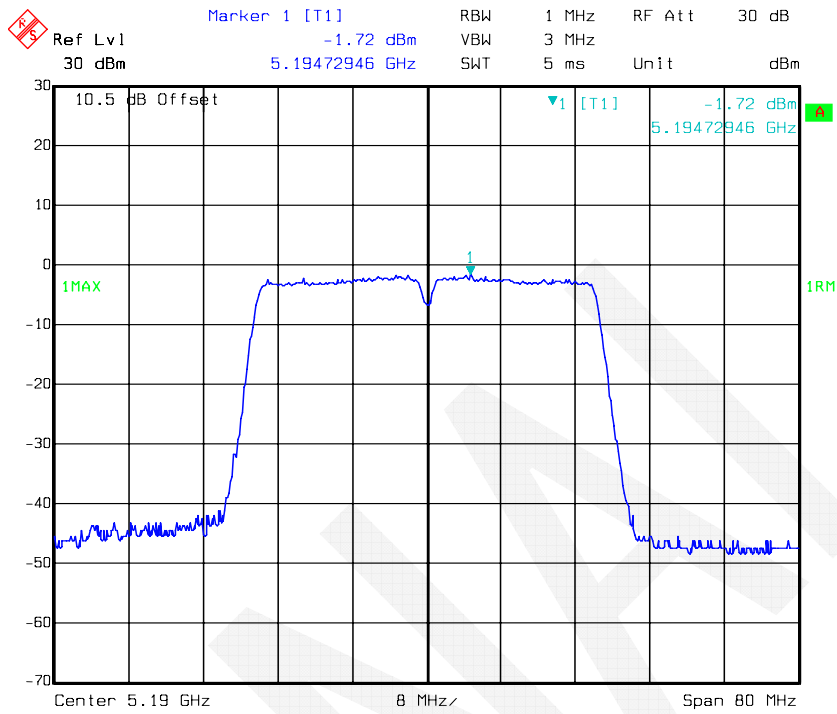
Date: 06.MAR.2018 13:17:27

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



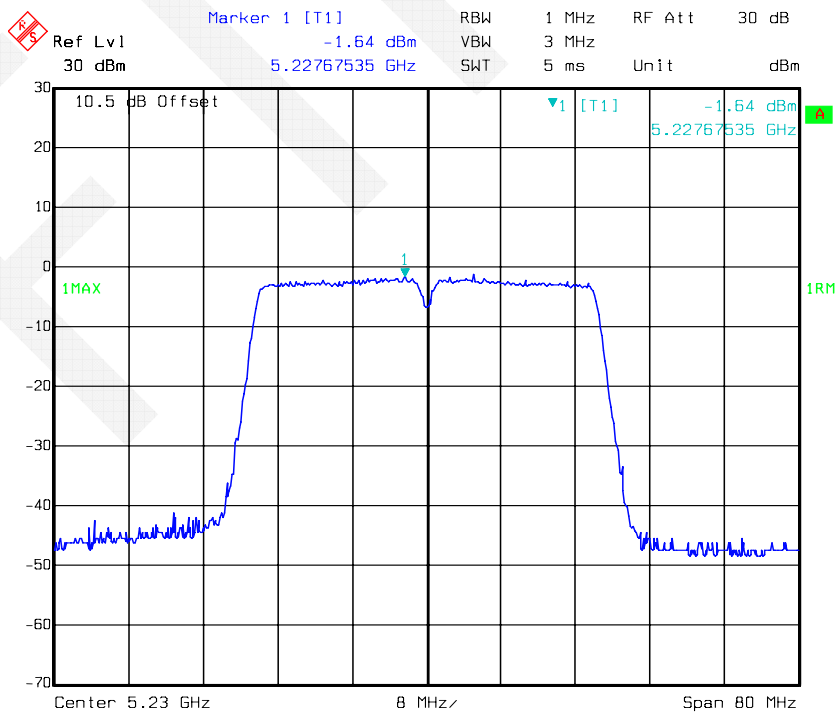
Date: 06.MAR.2018 13:19:10

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



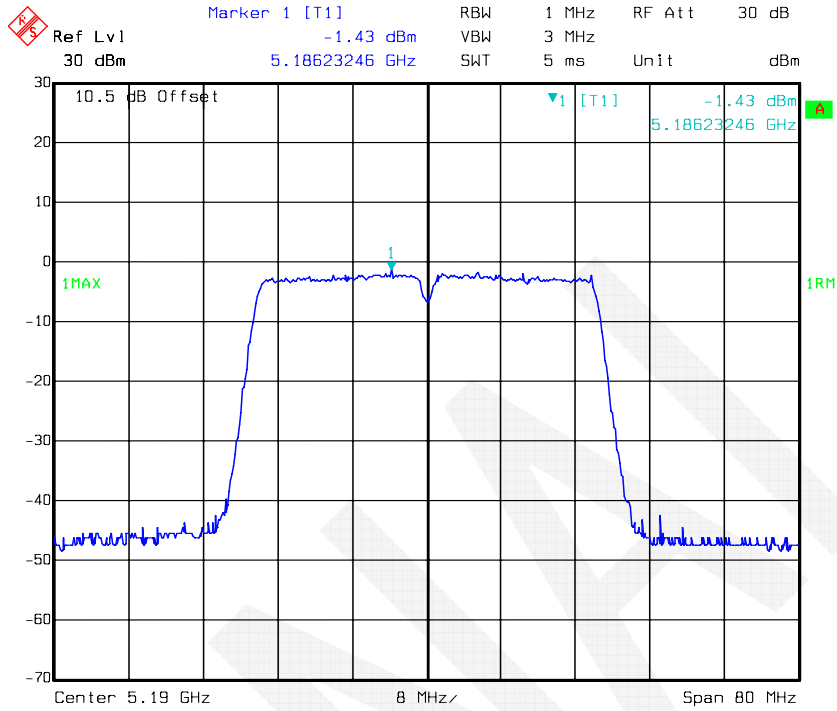
Date: 06.MAR.2018 13:48:09

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



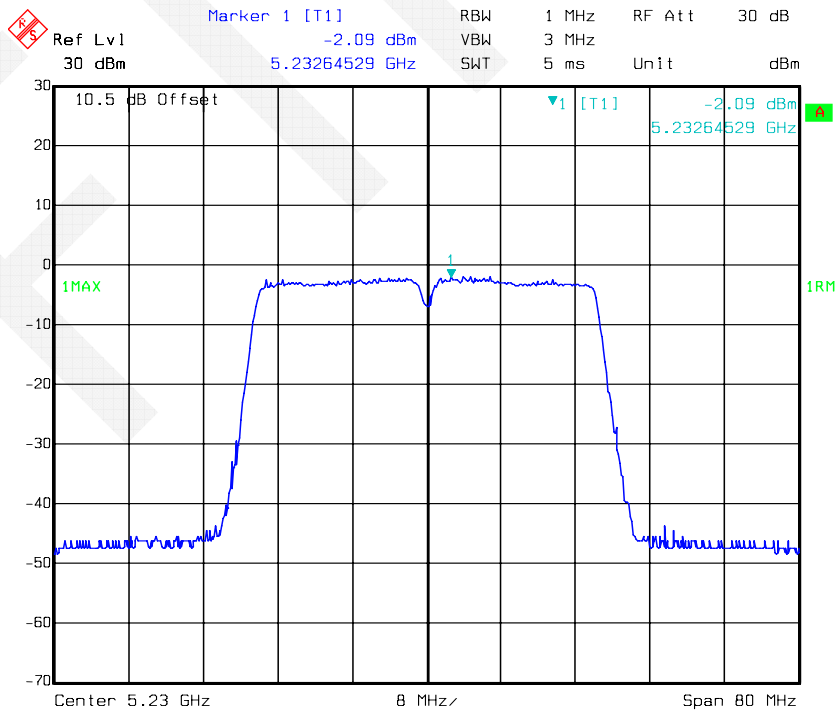
Date: 06.MAR.2018 13:49:37

802.11n-HT40 mode, Power Spectral Density-5190 MHz, Antenna 2



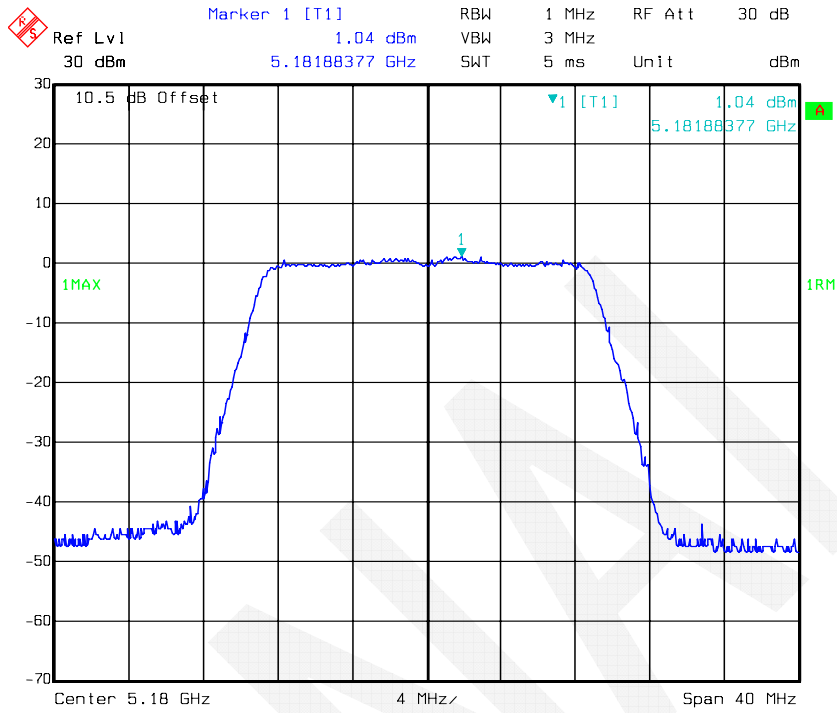
Date: 06.MAR.2018 14:13:26

802.11n-HT40 mode, Power Spectral Density-5230 MHz, Antenna 2



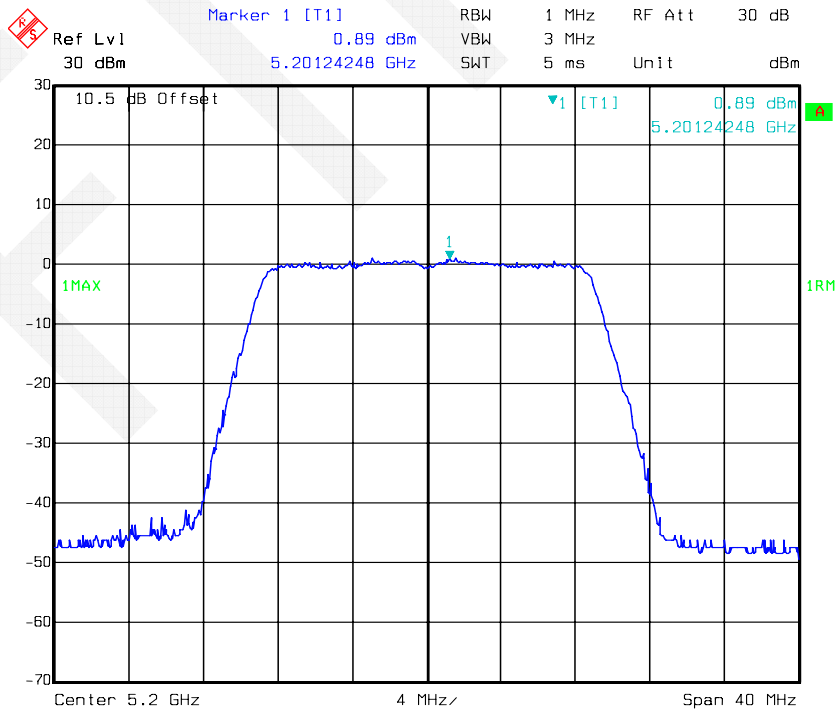
Date: 06.MAR.2018 14:14:59

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



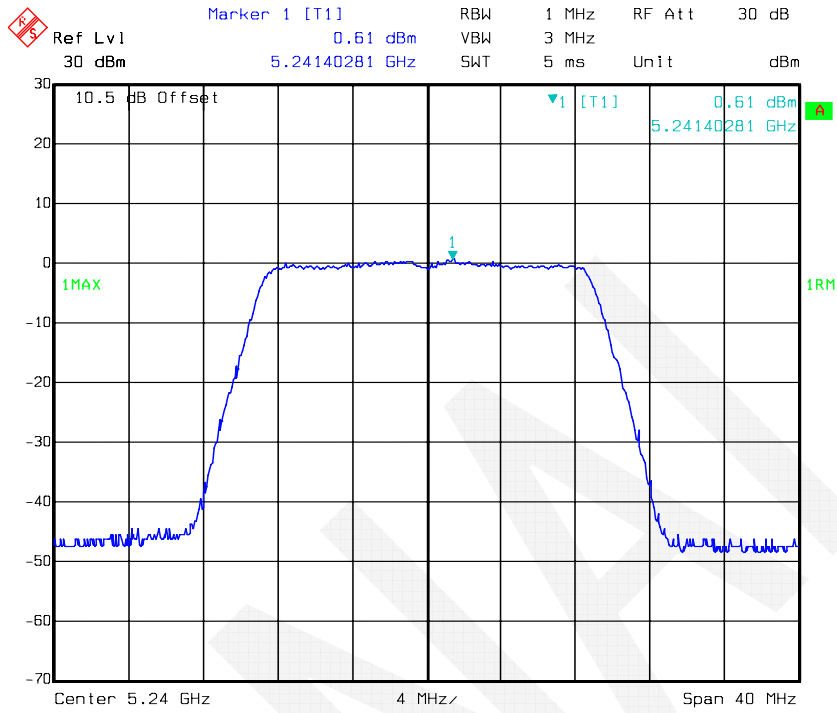
Date: 06.MAR.2018 13:11:24

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

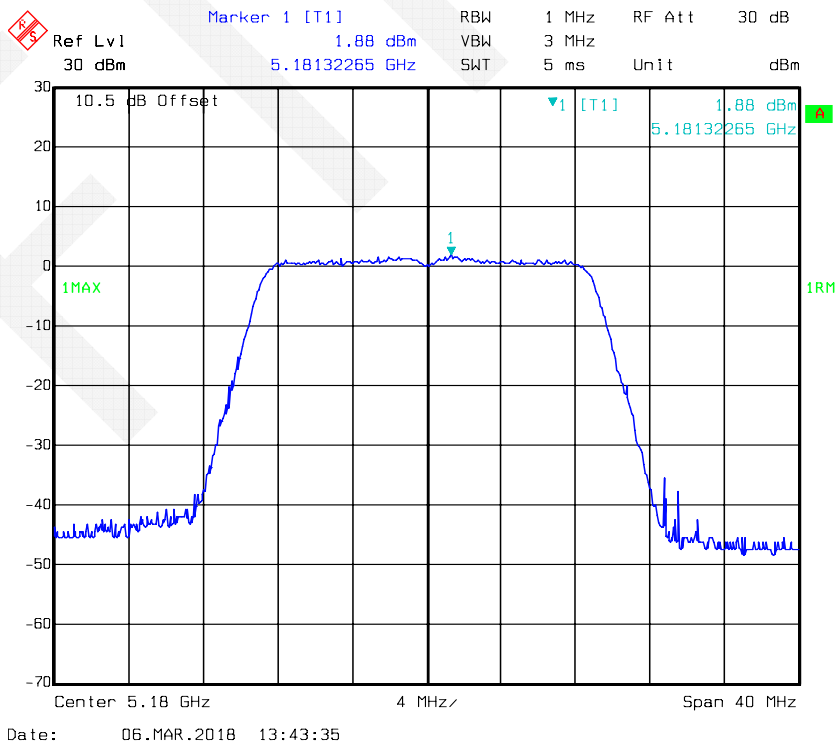


Date: 06.MAR.2018 13:13:14

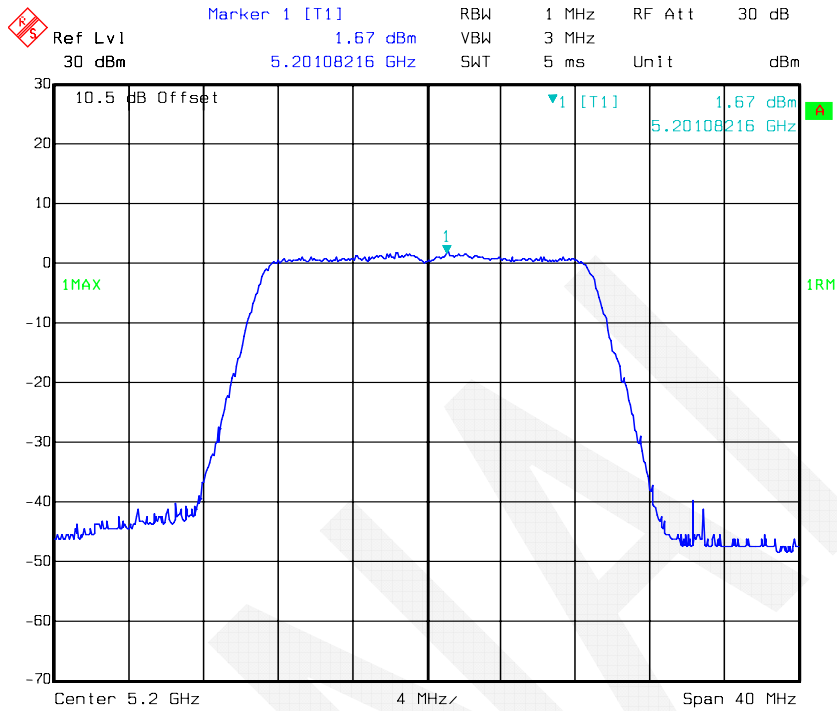
802.11ac20 mode, Power Spectral Density-5240 MHz, Antenna 0



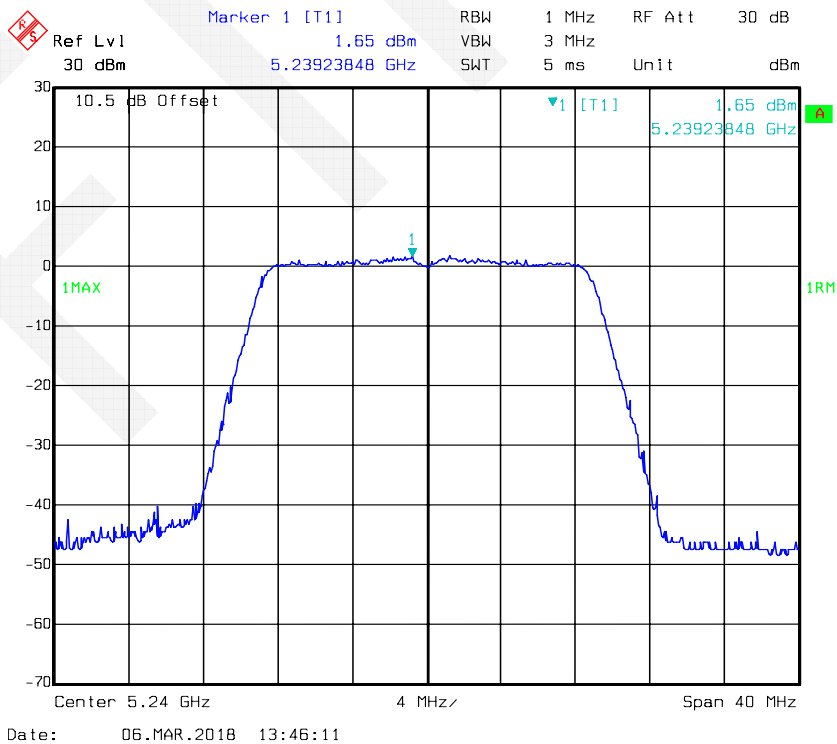
802.11ac20 mode, Power Spectral Density-5180 MHz, Antenna 1



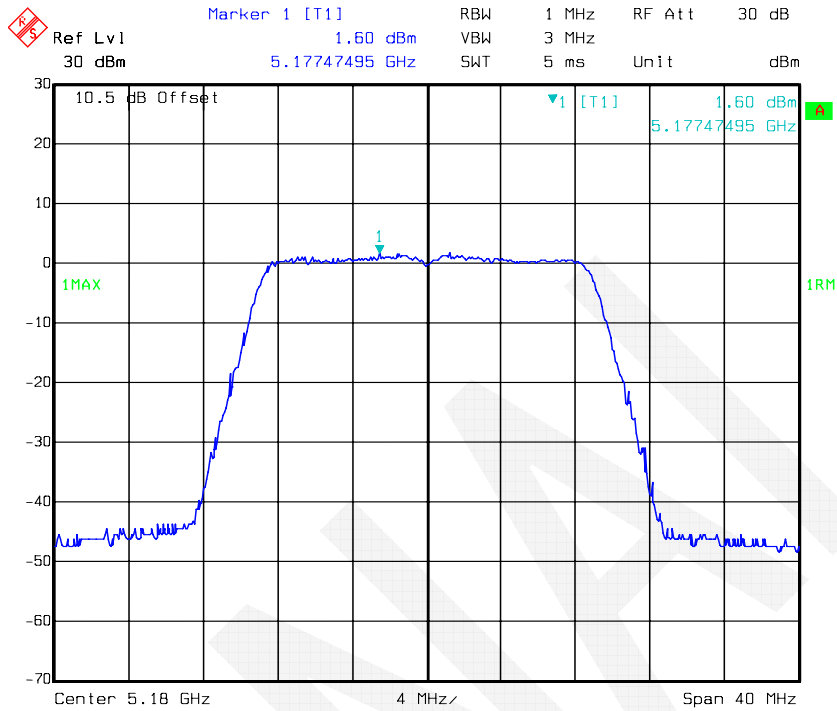
802.11ac20 mode, Power Spectral Density-5200 MHz, Antenna 1



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

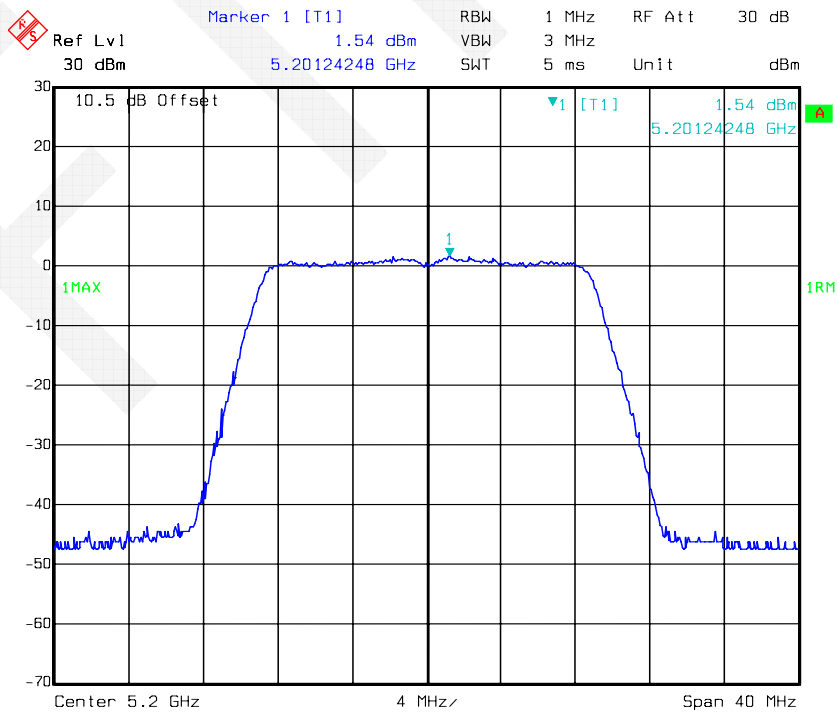


802.11ac20 mode, Power Spectral Density-5180 MHz, Antenna 2



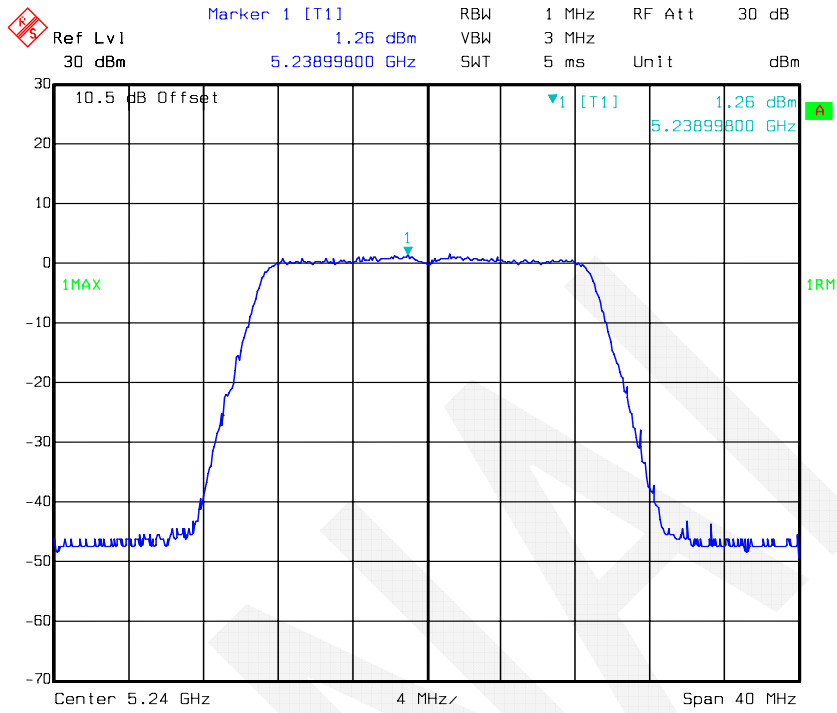
Date: 06.MAR.2018 14:09:20

802.11ac20 mode, Power Spectral Density-5200 MHz, Antenna 2



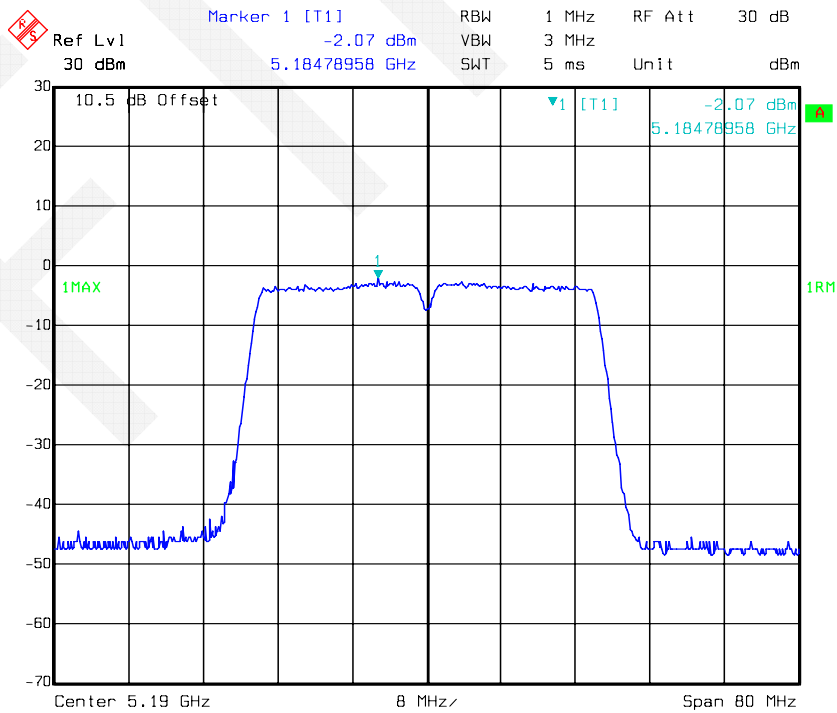
Date: 06.MAR.2018 14:10:52

802.11ac20 mode, Power Spectral Density-5240 MHz, Antenna 2



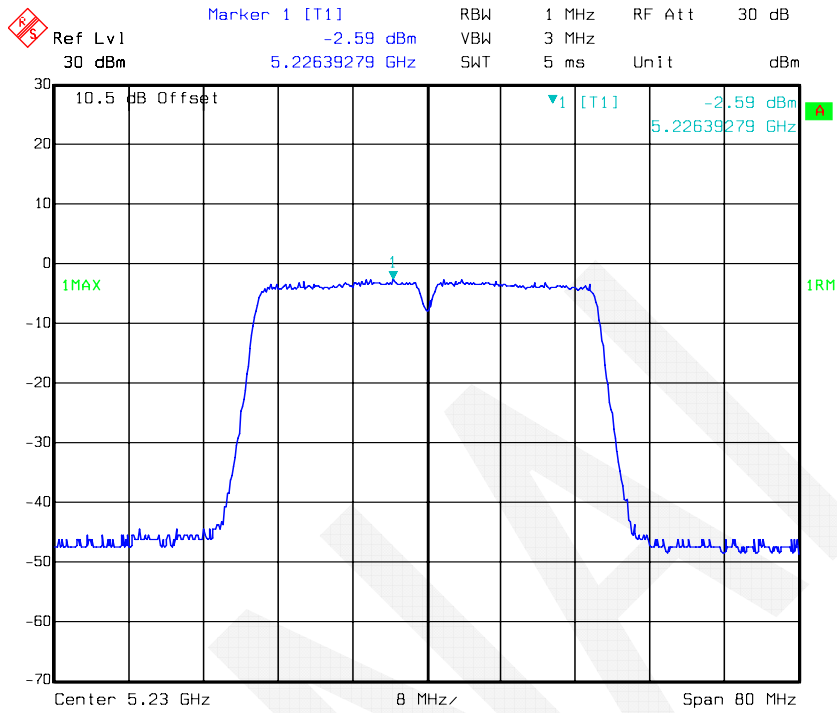
Date: 06.MAR.2018 14:11:59

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



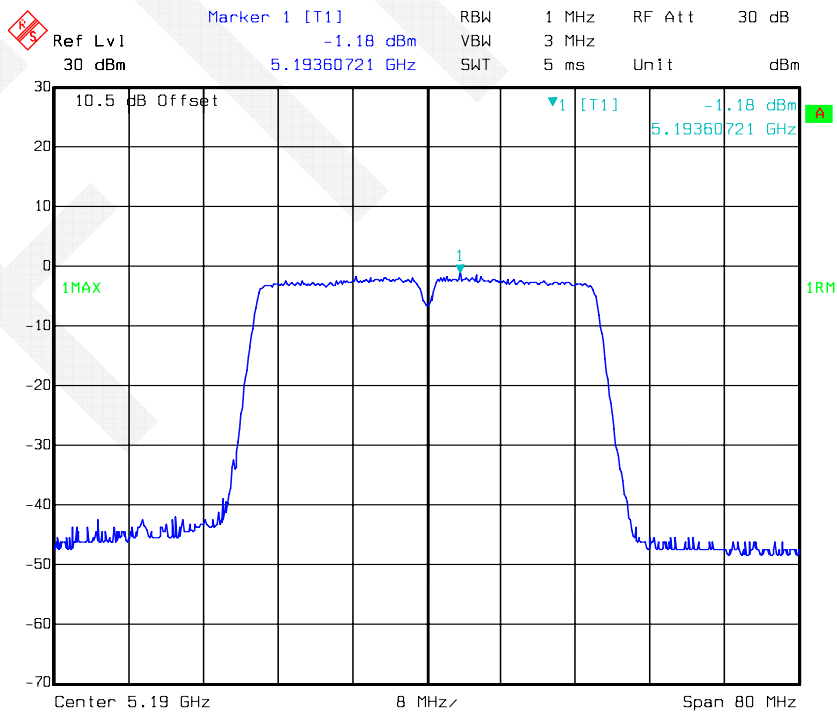
Date: 06.MAR.2018 13:23:36

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



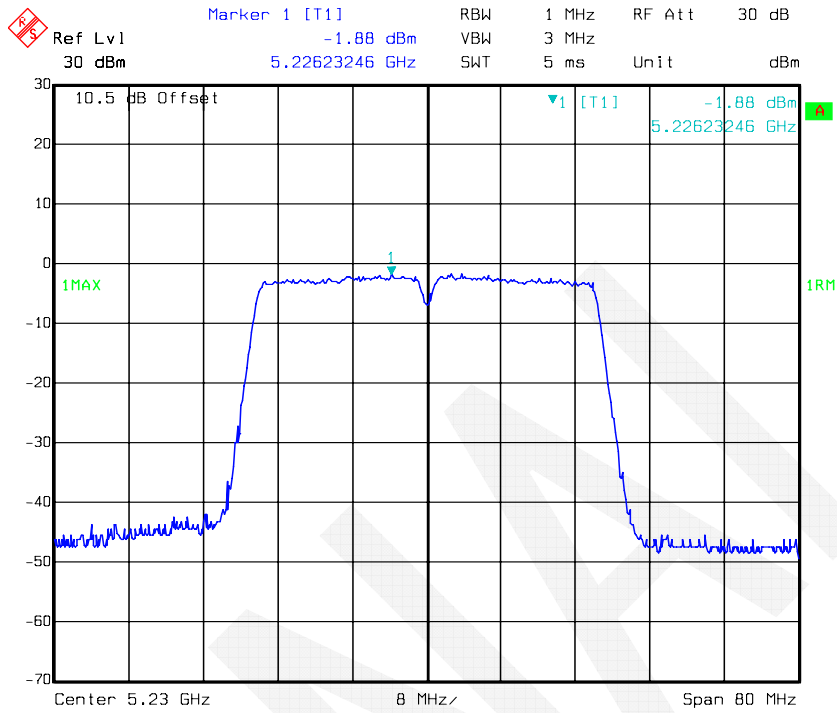
Date: 06.MAR.2018 13:25:16

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



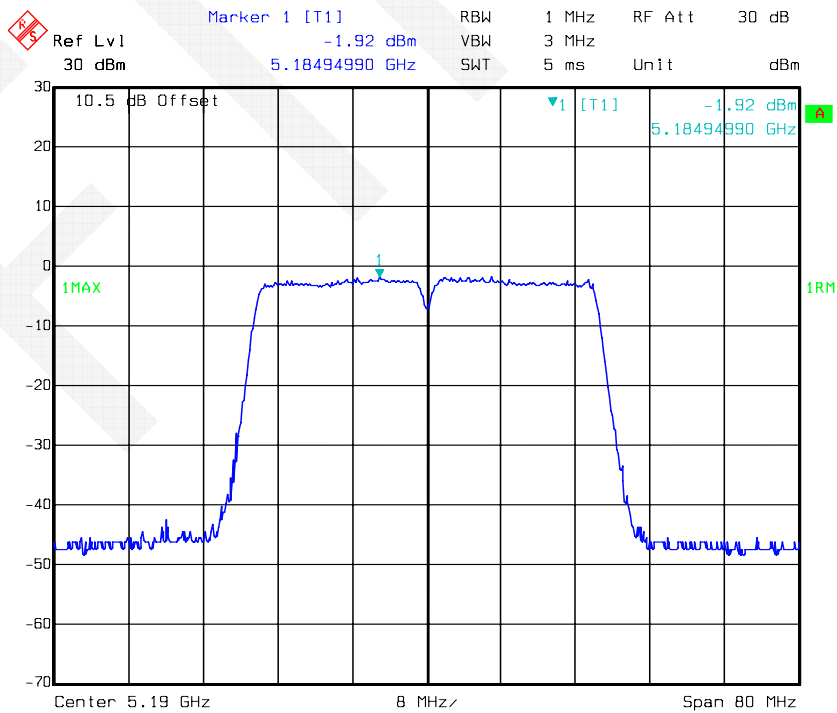
Date: 06.MAR.2018 13:51:23

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



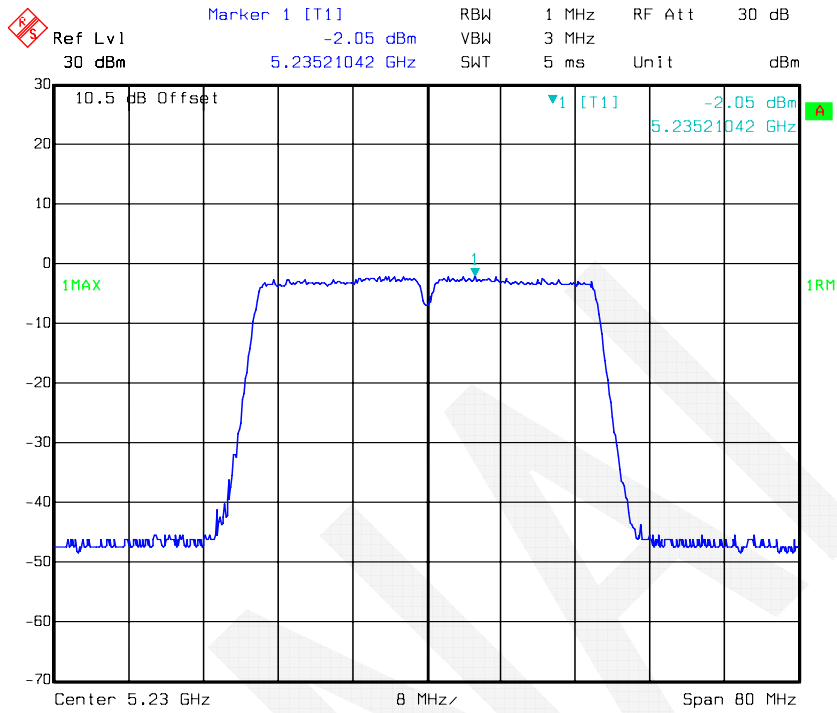
Date: 06.MAR.2018 13:53:22

802.11ac40 mode, Power Spectral Density-5190 MHz, Antenna 2



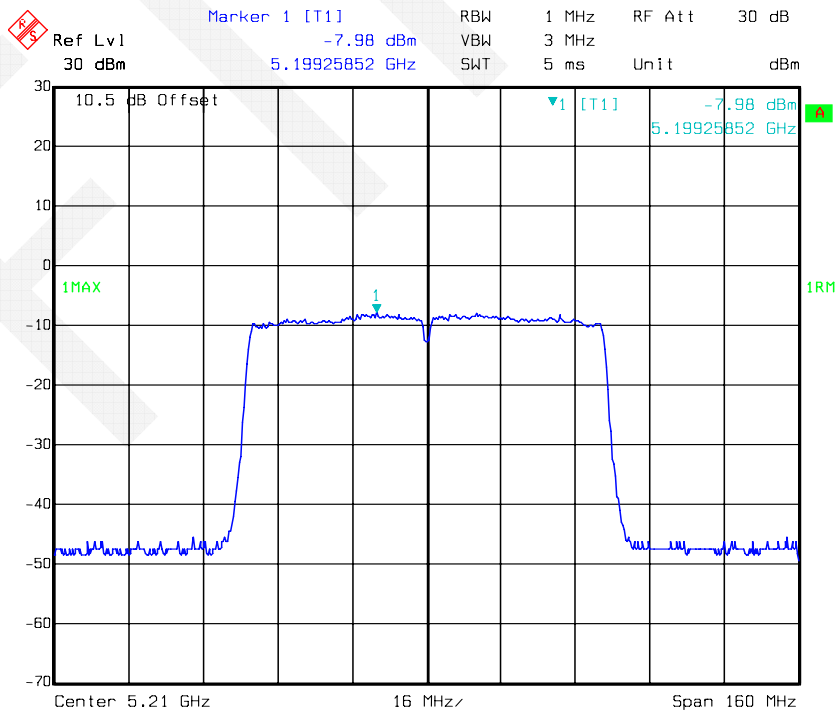
Date: 06.MAR.2018 14:16:41

802.11ac40 mode, Power Spectral Density-5230 MHz, Antenna 2



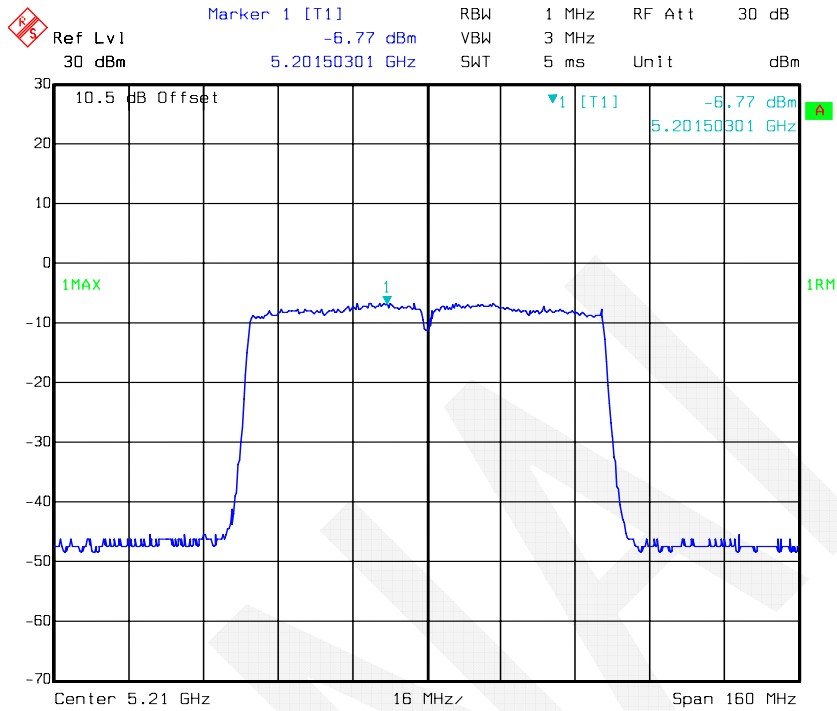
Date: 06.MAR.2018 14:18:07

802.11ac 80 mode, Power Spectral Density-5210 MHz, Antenna 0

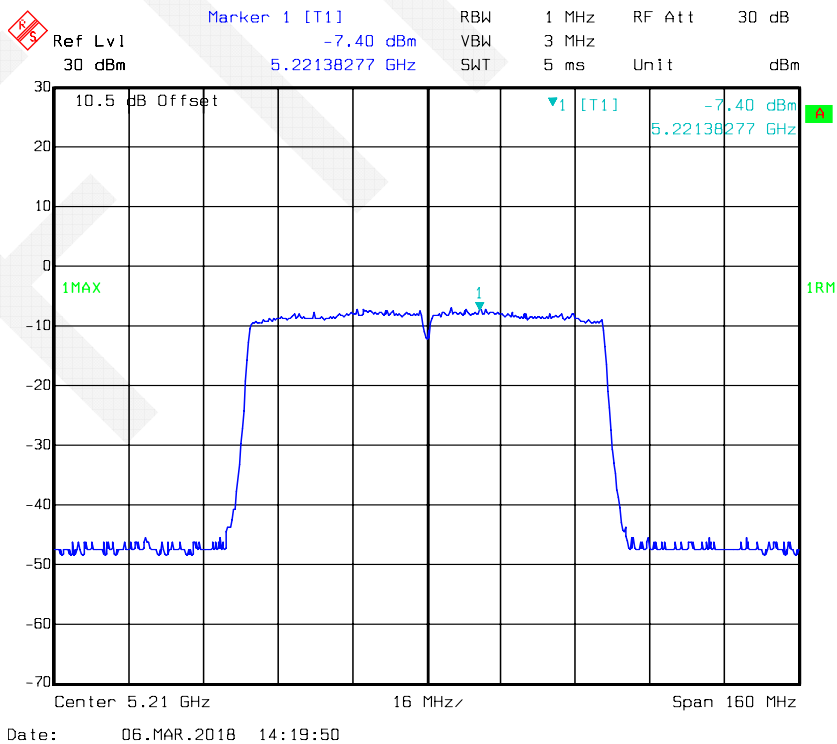


Date: 06.MAR.2018 13:30:10

802.11ac 80 mode, Power Spectral Density-5210 MHz, Antenna 1



802.11ac 80 mode, Power Spectral Density-5210 MHz, Antenna 2



For 5725-5850 MHz:

Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Total (dBm/500kHz)	Limit (dBm/500kHz)
			Antenna 0	Antenna 1	Antenna 2		
802.11a	Low	5745	1.51	2.67	2.66	7.08	26.23
	Middle	5785	1.98	2.99	2.98	7.45	26.23
	High	5825	1.43	2.90	2.59	7.12	26.23
802.11n-HT20	Low	5745	0.68	1.86	2.61	6.56	26.23
	Middle	5785	0.94	2.97	2.91	7.14	26.23
	High	5825	1.28	2.16	2.51	6.78	26.23
802.11n-HT40	Low	5755	-3.12	-0.82	-0.55	3.42	26.23
	High	5795	-3.04	-0.58	-0.66	3.48	26.23
802.11ac20	Low	5745	1.75	2.49	2.50	7.03	26.23
	Middle	5785	1.16	2.99	2.88	7.19	26.23
	High	5825	1.14	2.79	2.63	7.02	26.23
802.11ac40	Low	5755	-3.08	-0.63	-0.46	3.53	26.23
	High	5795	-2.93	-1.04	-0.78	3.29	26.23
802.11ac80	-	5775	-6.57	-5.57	-5.39	-1.04	26.23

Note:

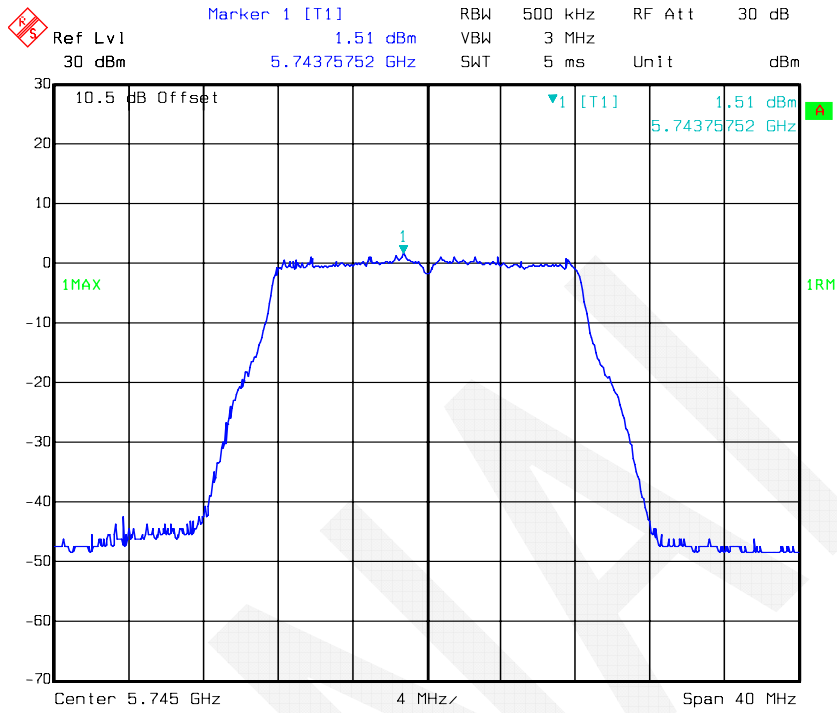
1. The max antenna gain is 5dBi.
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 10 \cdot \log(N_{\text{ANT}}/N_{\text{SS}}) \text{dB}$$

So:

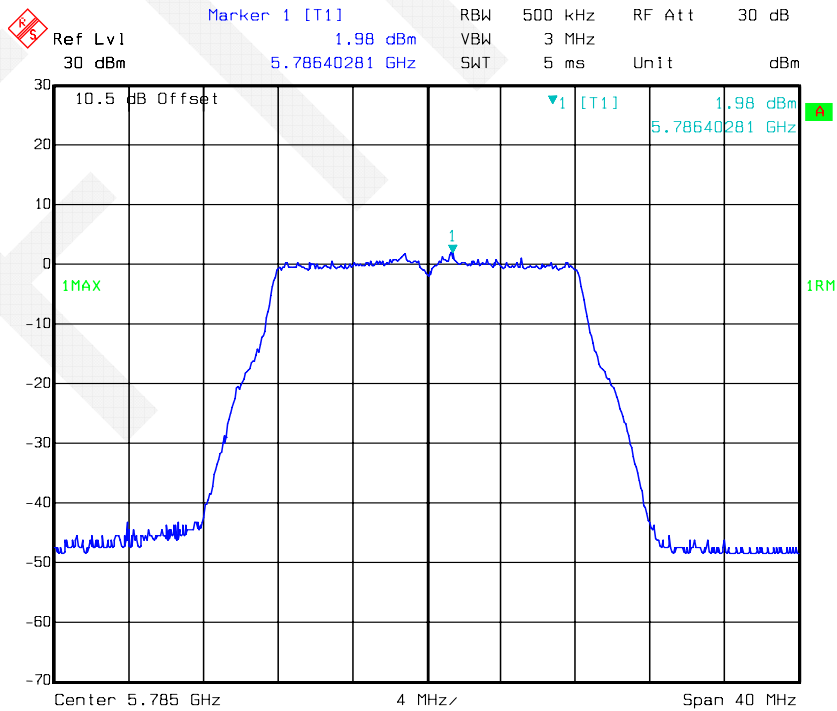
Directional gain = G_{ANT} + Array Gain = 5 + 10 * log(3) = 9.77dBi > 6dBi
 The power density Limit was reduced 3.77dB in MIMO mode.

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



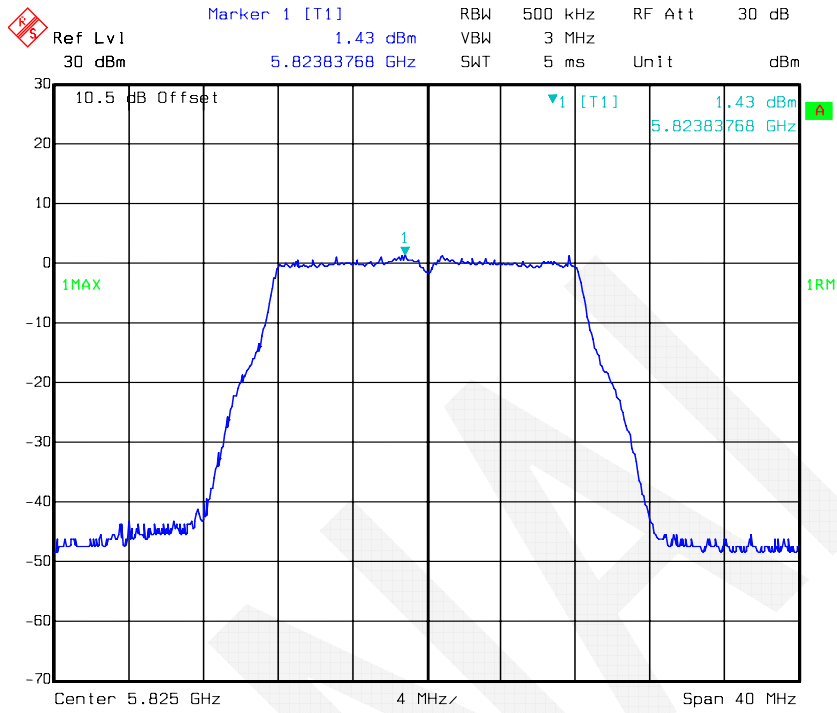
Date: 07.MAR.2018 11:31:56

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



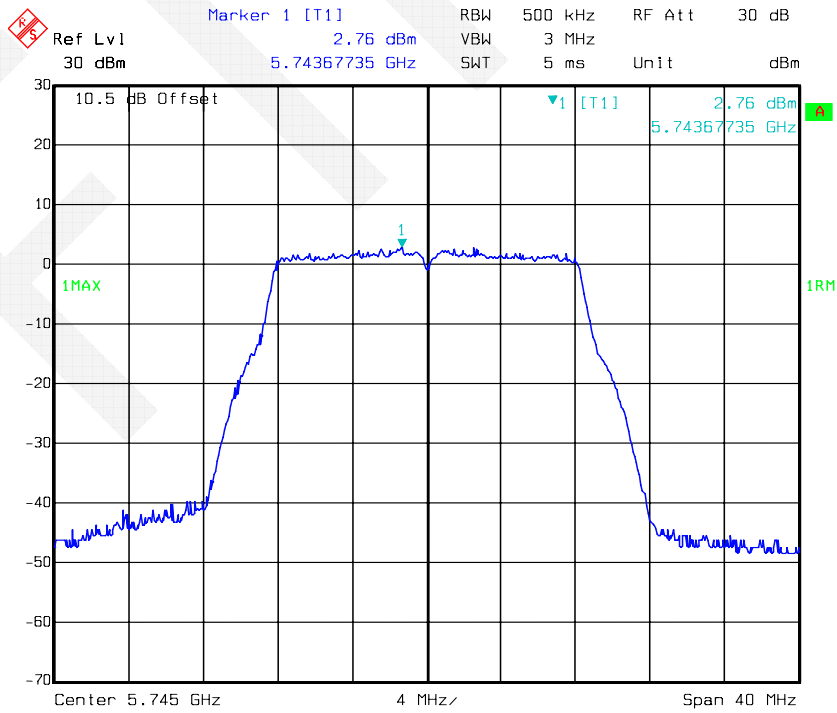
Date: 07.MAR.2018 11:32:27

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



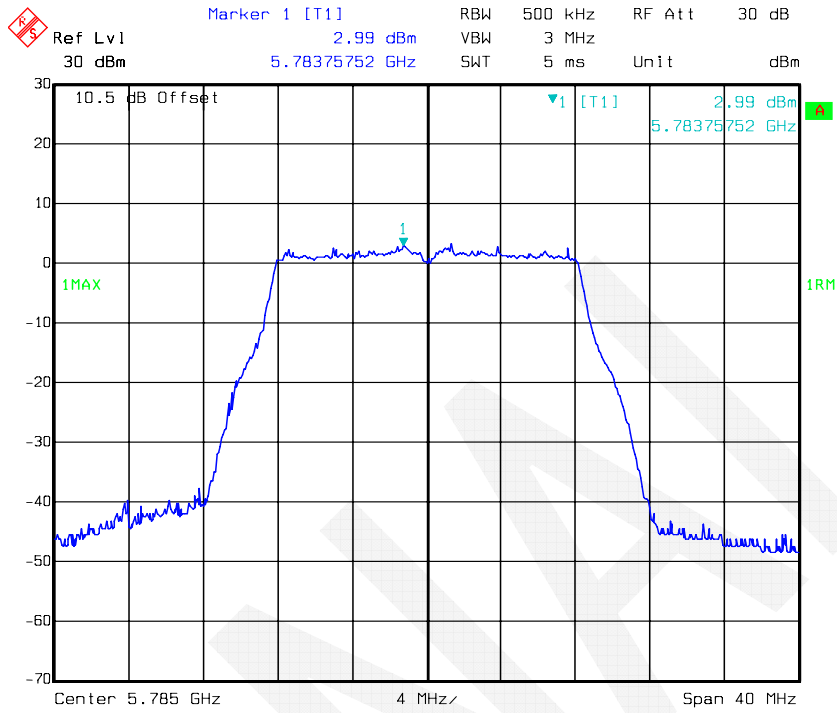
Date: 07.MAR.2018 11:33:02

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



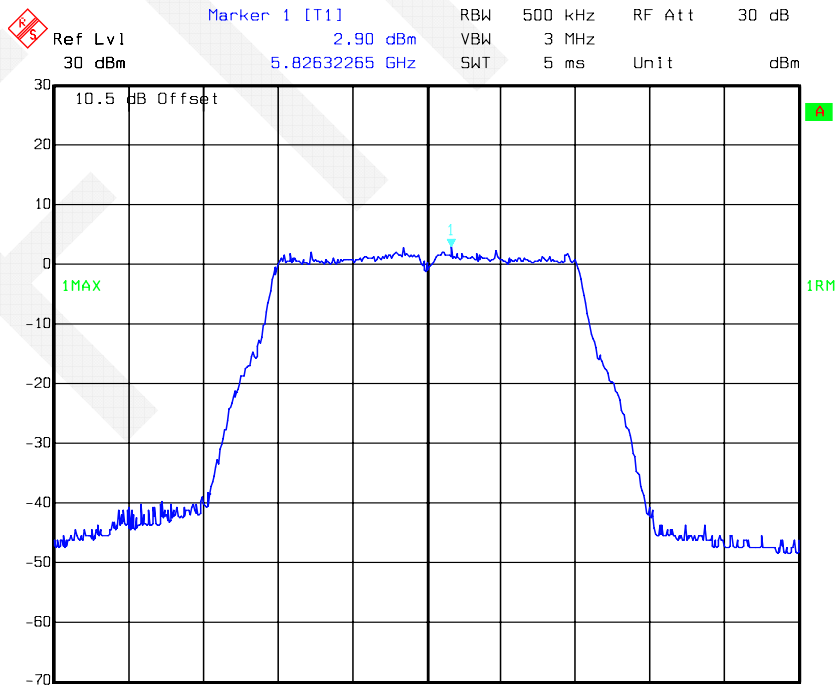
Date: 07.MAR.2018 13:27:43

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



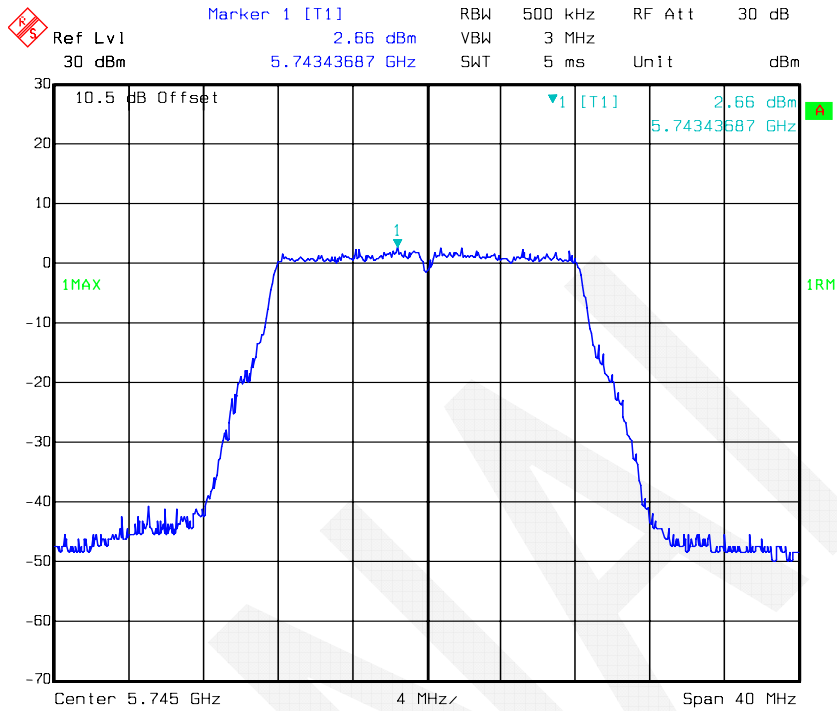
Date: 07.MAR.2018 13:28:17

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



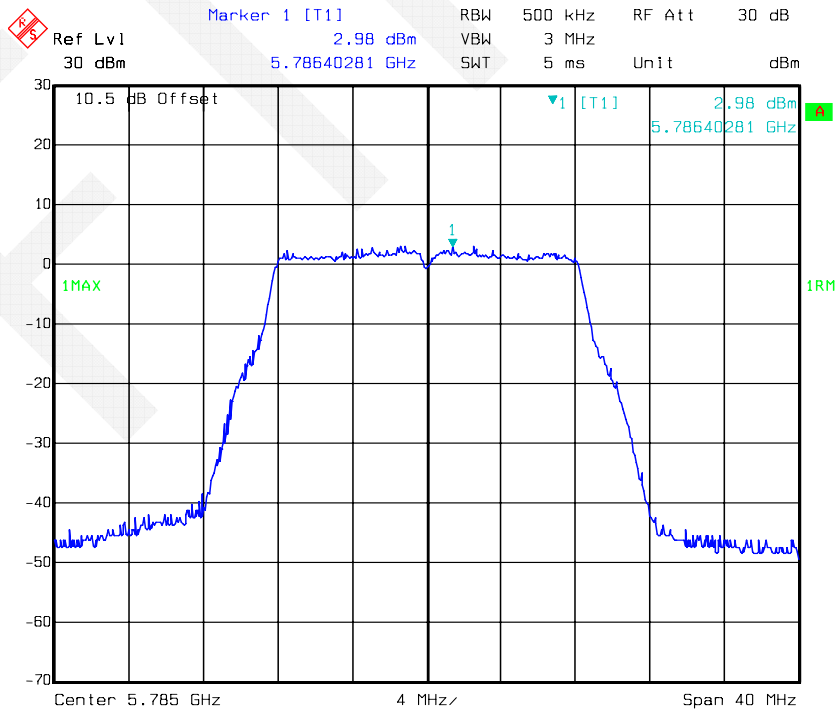
Date: 07.MAR.2018 13:30:37

802.11a mode, Power Spectral Density-5745 MHz, Antenna 2



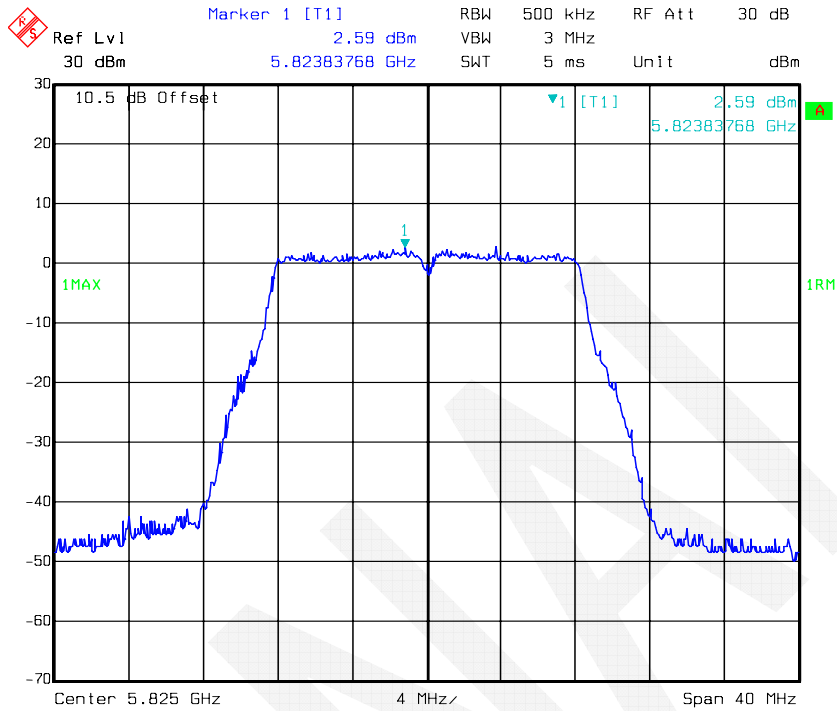
Date: 07.MAR.2018 13:54:22

802.11a mode, Power Spectral Density-5785 MHz, Antenna 2

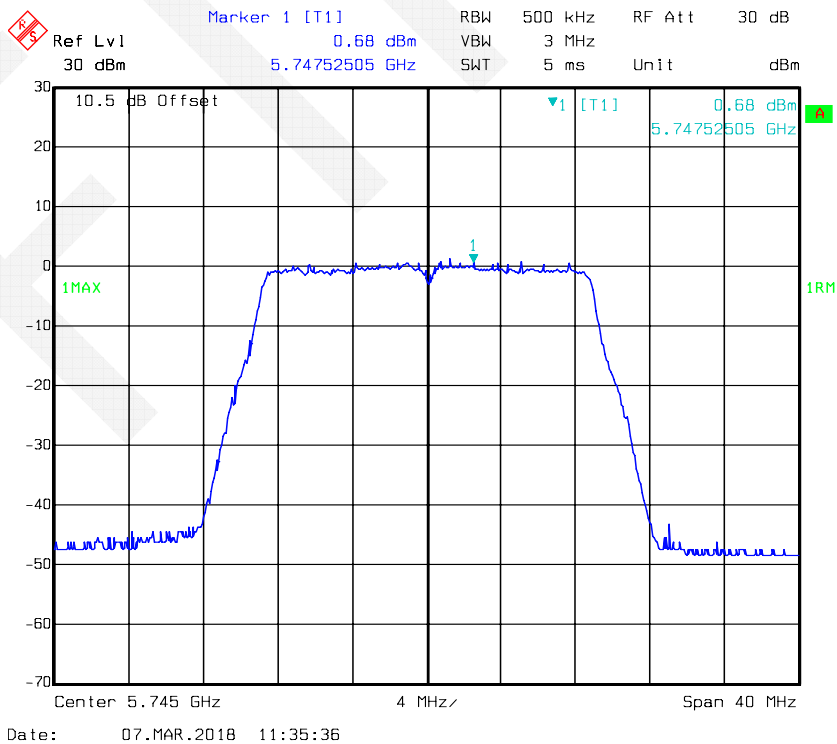


Date: 07.MAR.2018 13:54:48

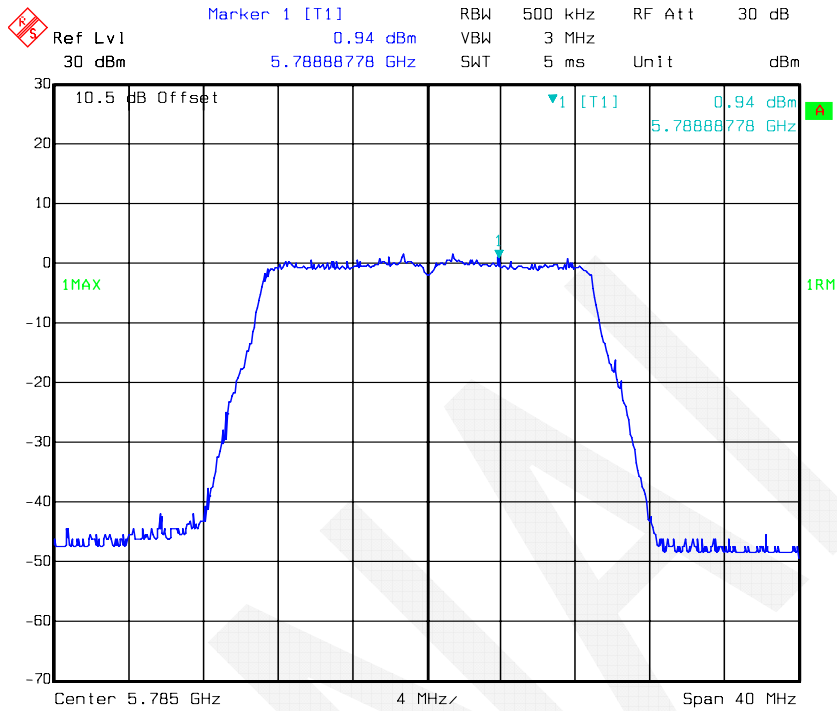
802.11a mode, Power Spectral Density-5825 MHz, Antenna 2



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

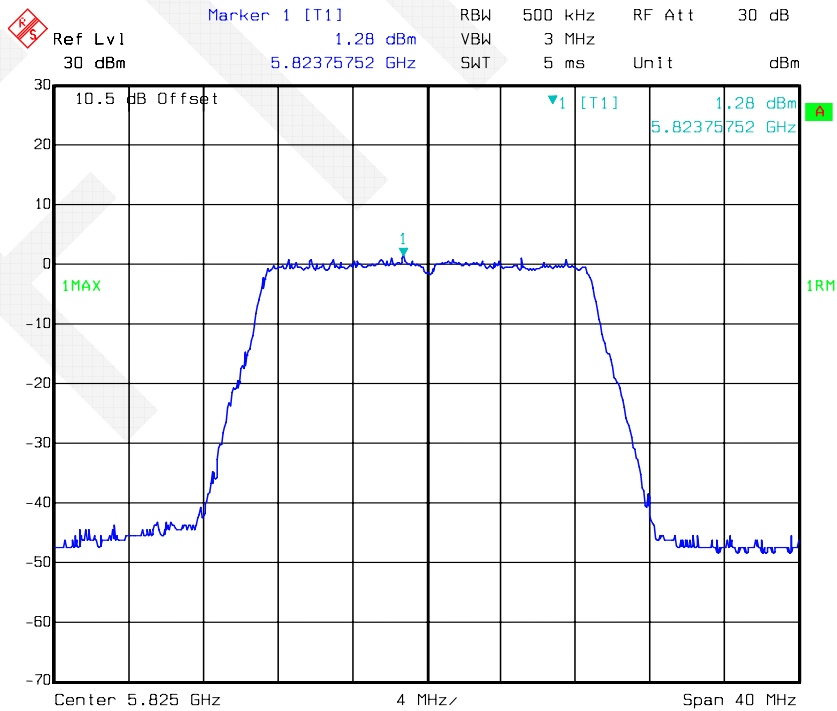


802.11n-HT20 mode, Power Spectral Density-5785 MHz, Antenna 0



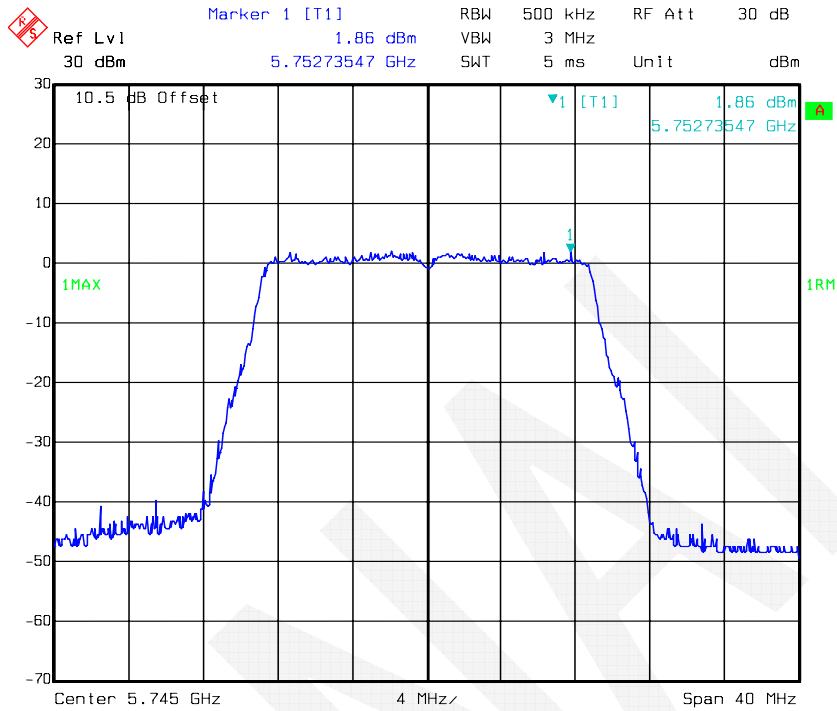
Date: 07.MAR.2018 11:36:09

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

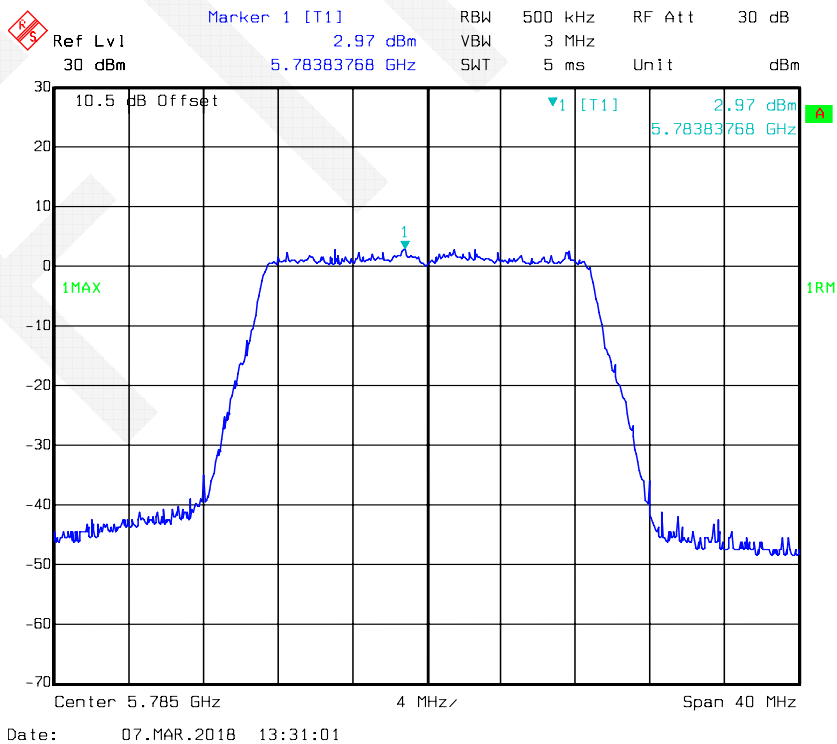


Date: 07.MAR.2018 11:36:42

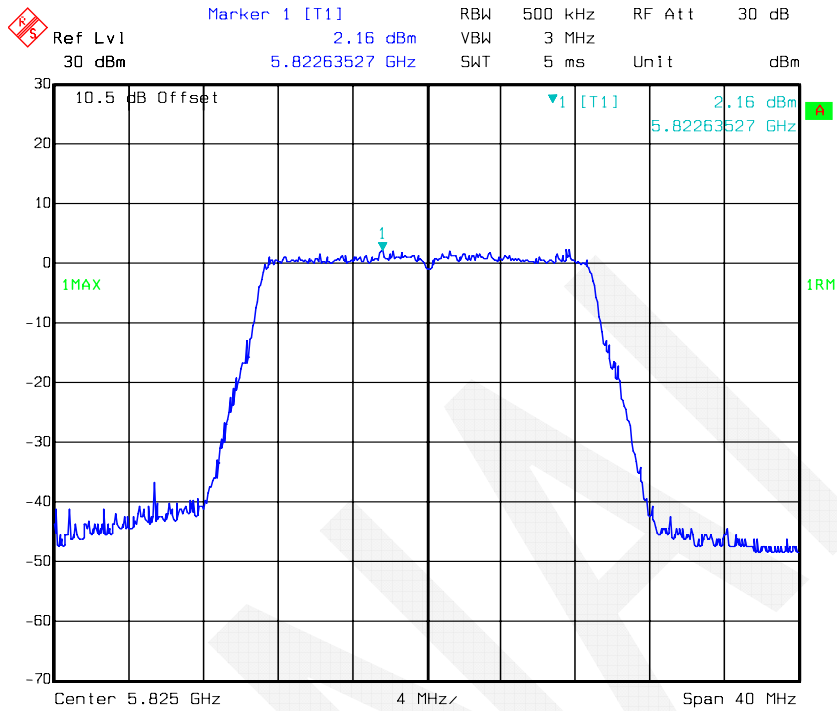
802.11n-HT20 mode, Power Spectral Density-5745 MHz, Antenna 1



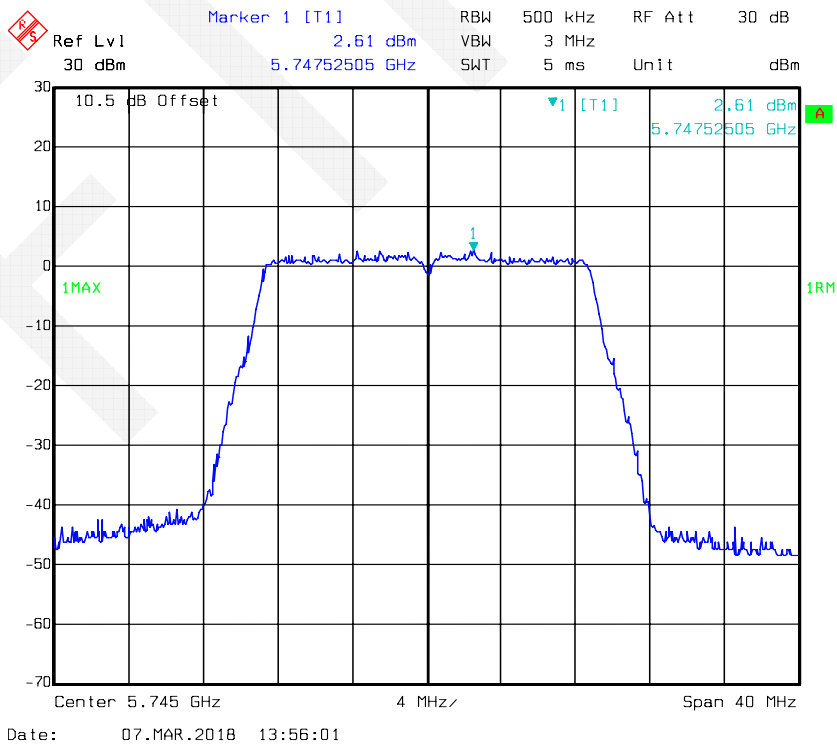
802.11n-HT20 mode, Power Spectral Density-5785 MHz, Antenna 1



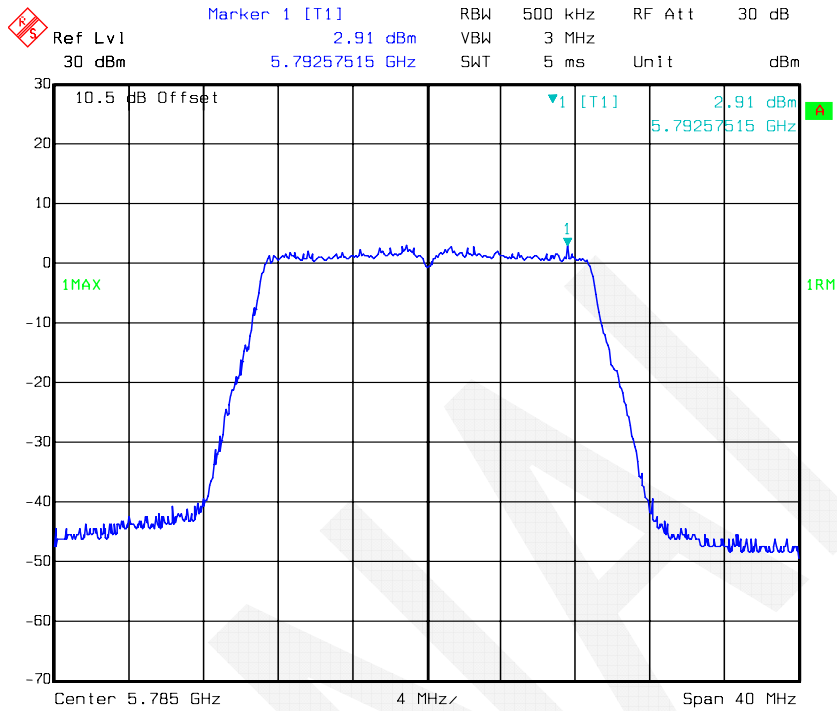
802.11n-HT20 mode, Power Spectral Density-5825 MHz, Antenna 1



802.11n-HT20 mode, Power Spectral Density-5745 MHz, Antenna 2

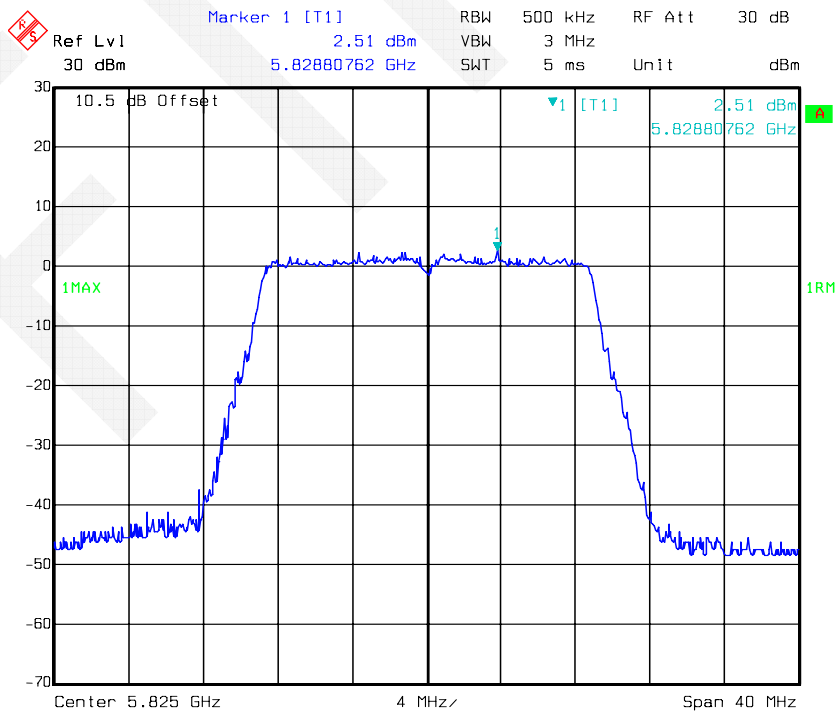


802.11n-HT20 mode, Power Spectral Density-5785 MHz, Antenna 2



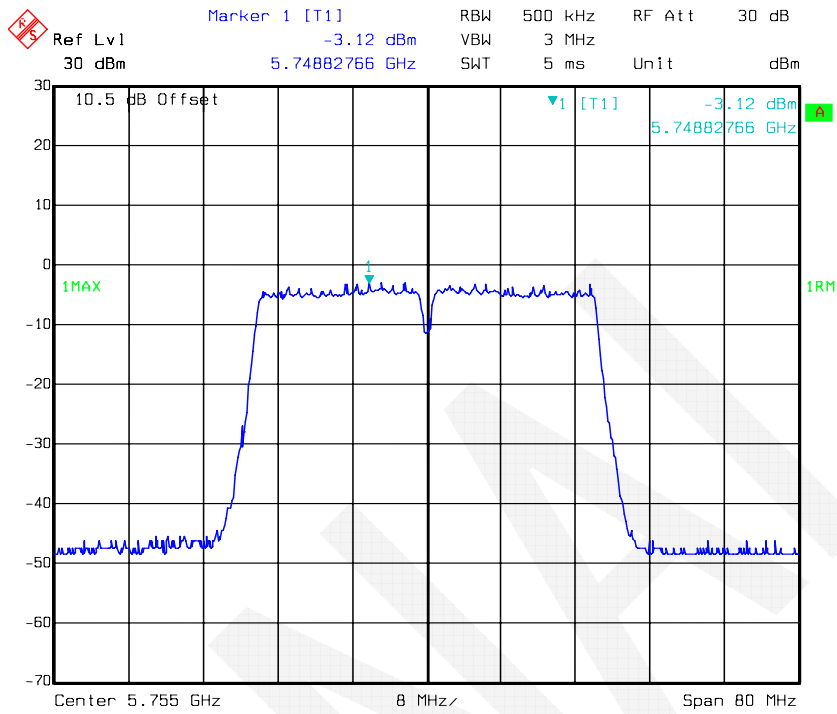
Date: 07.MAR.2018 13:56:29

802.11n-HT20 mode, Power Spectral Density-5825 MHz, Antenna 2



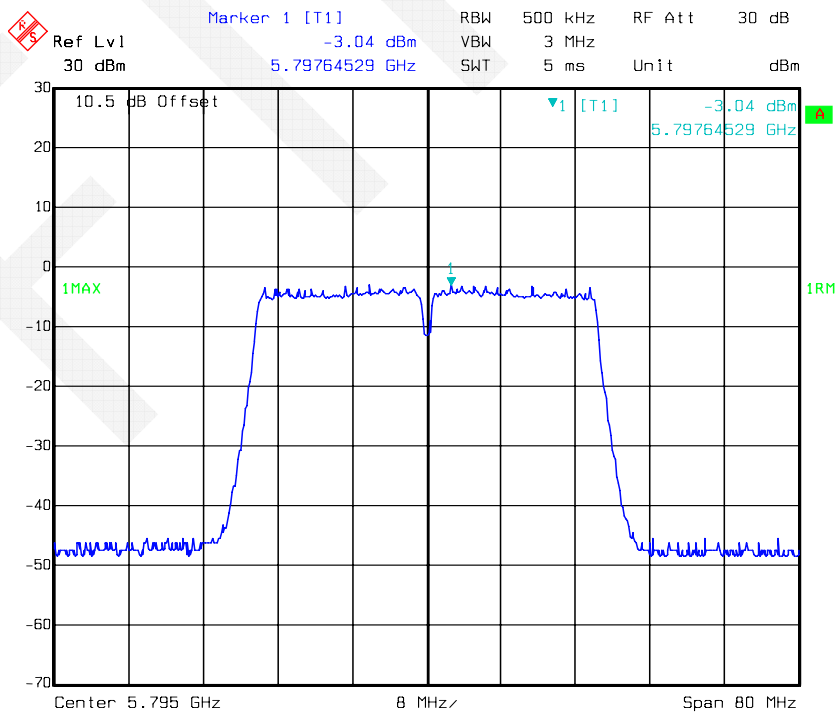
Date: 07.MAR.2018 13:56:56

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



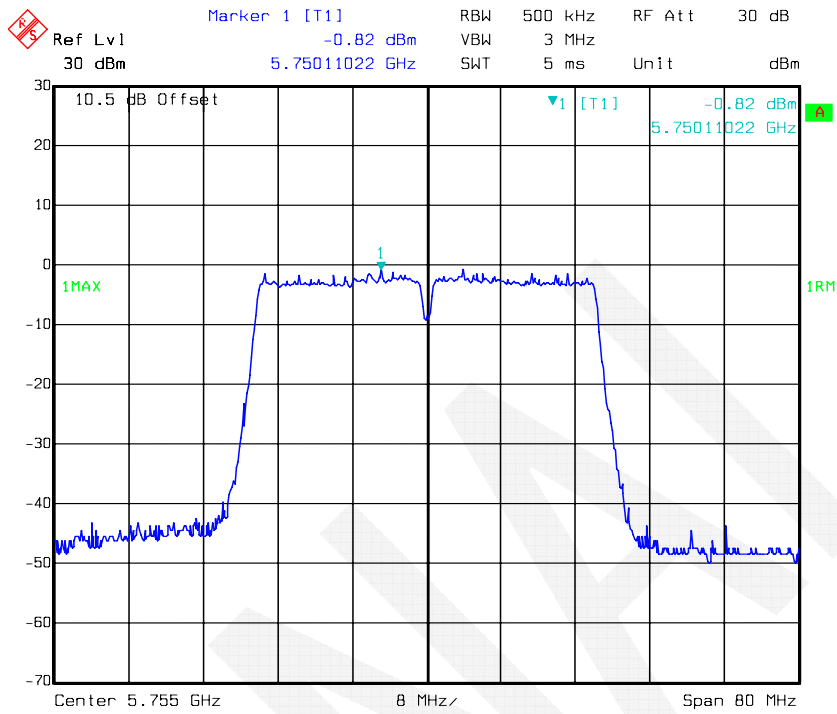
Date: 07.MAR.2018 11:39:57

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



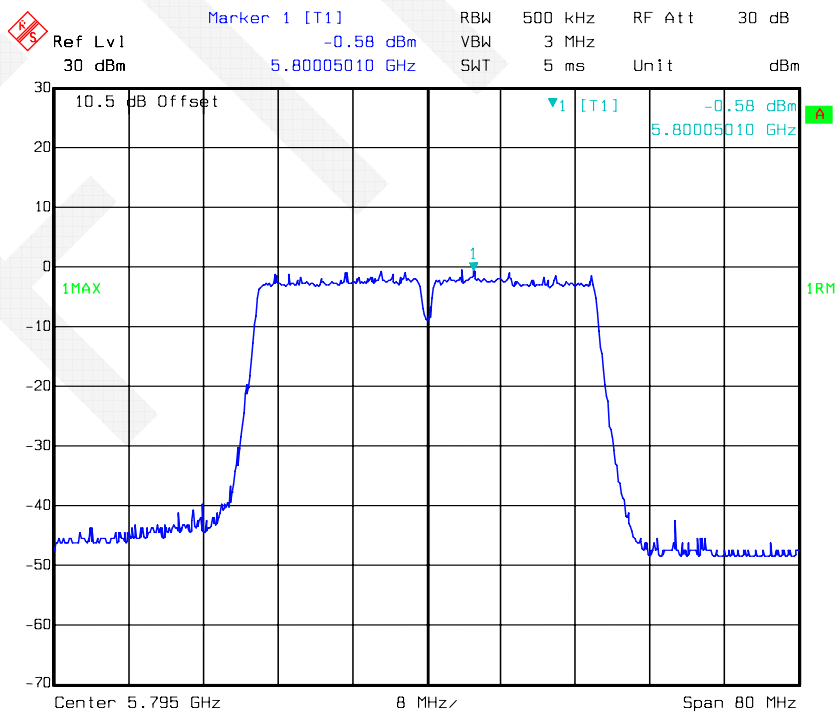
Date: 07.MAR.2018 11:40:33

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



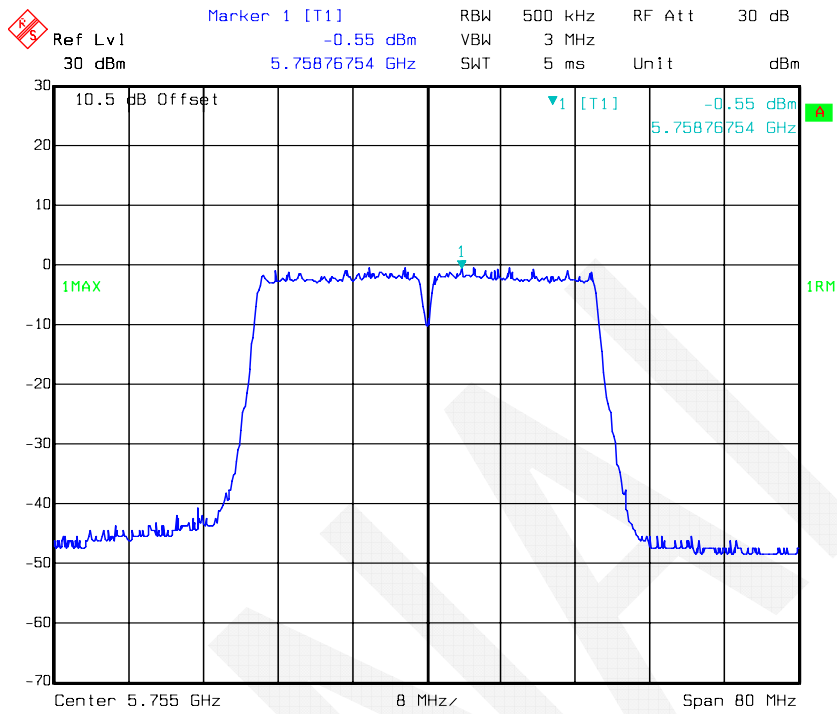
Date: 07.MAR.2018 13:34:43

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



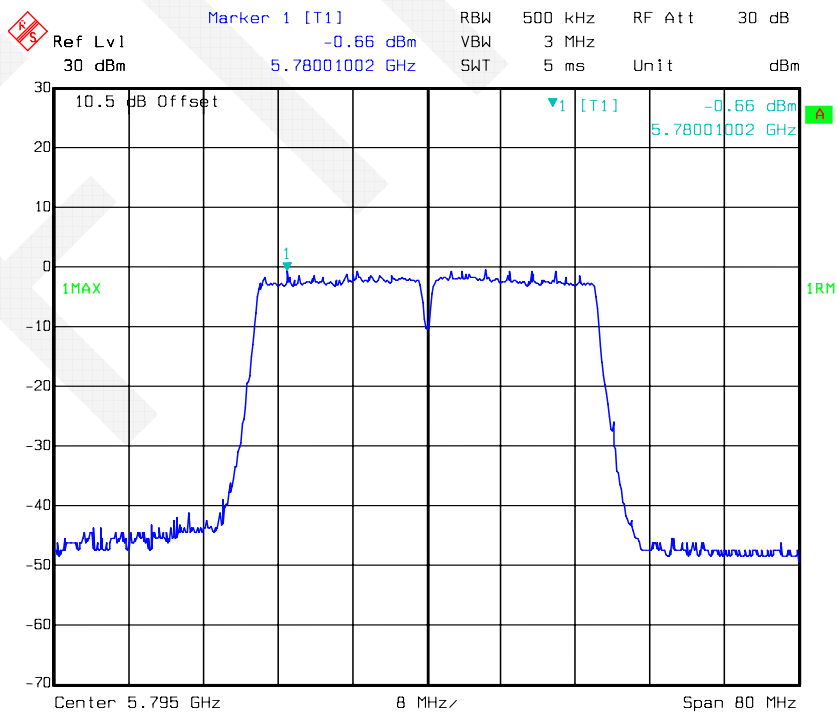
Date: 07.MAR.2018 13:35:12

802.11n-HT40 mode, Power Spectral Density-5755 MHz, Antenna 2



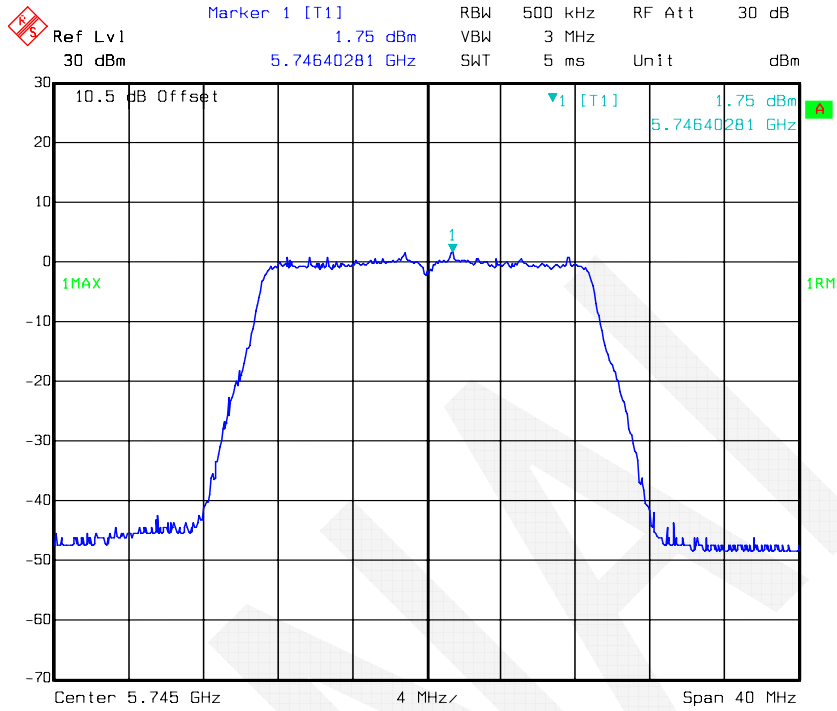
Date: 07.MAR.2018 14:01:07

802.11n-HT40 mode, Power Spectral Density-5795 MHz, Antenna 2



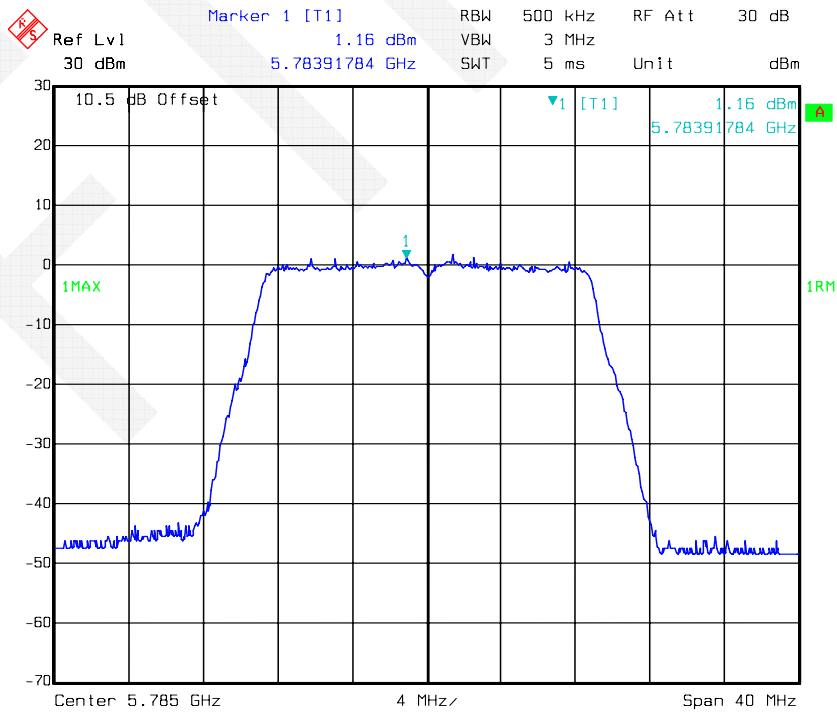
Date: 07.MAR.2018 14:01:46

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



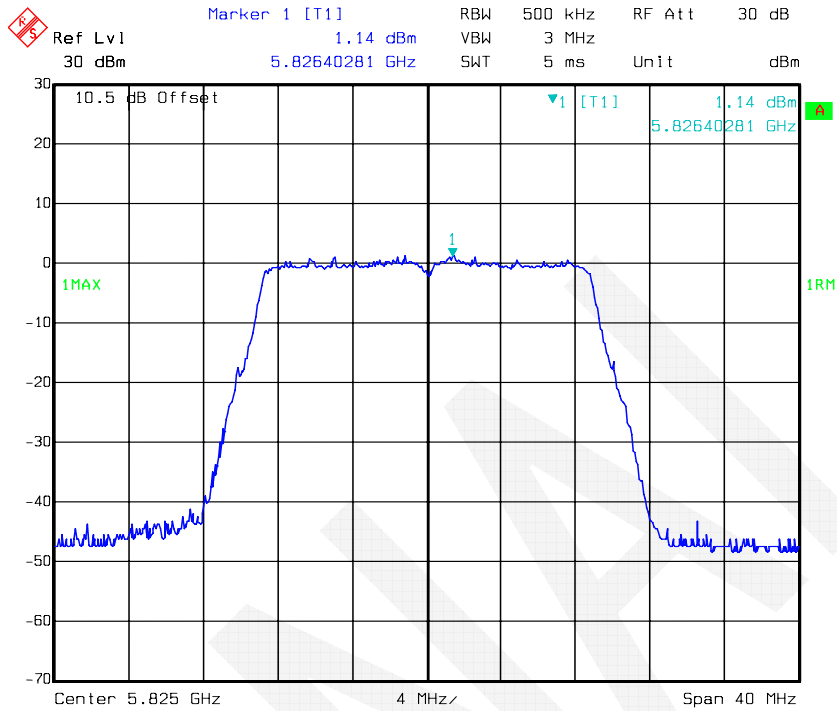
Date: 07.MAR.2018 11:37:50

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

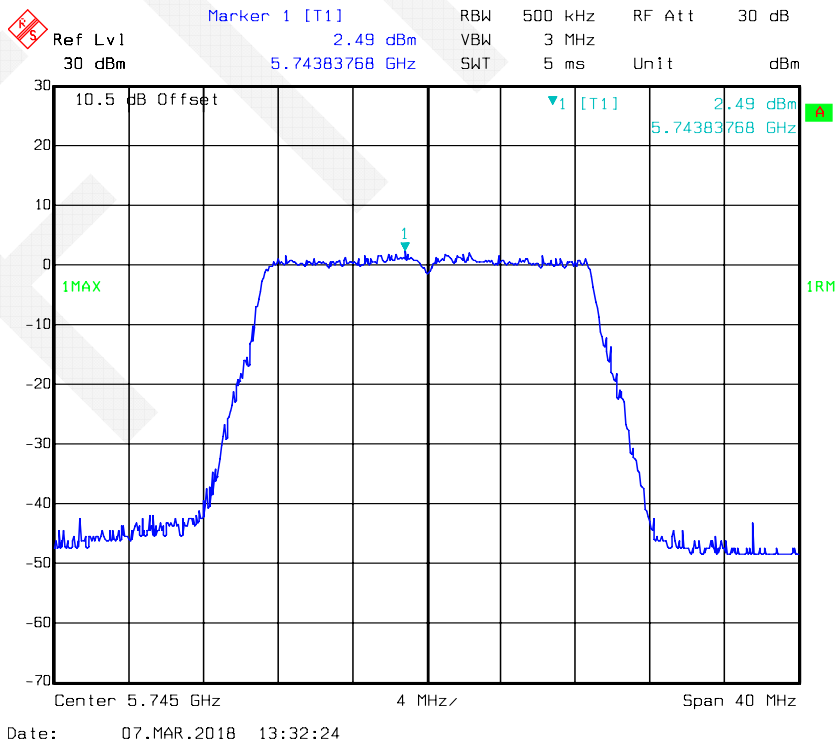


Date: 07.MAR.2018 11:38:29

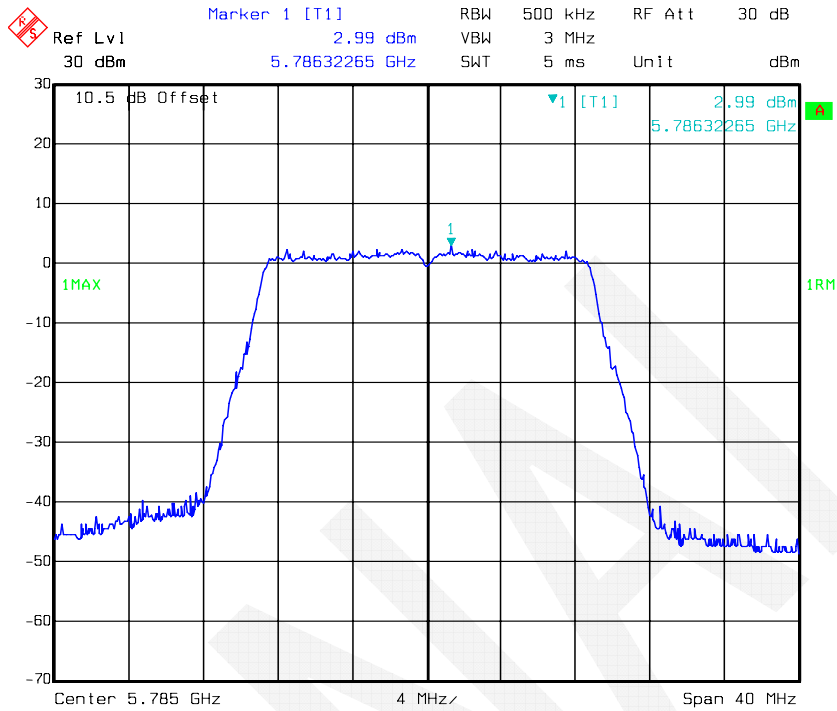
802.11ac20 mode, Power Spectral Density-5825 MHz, Antenna 0



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

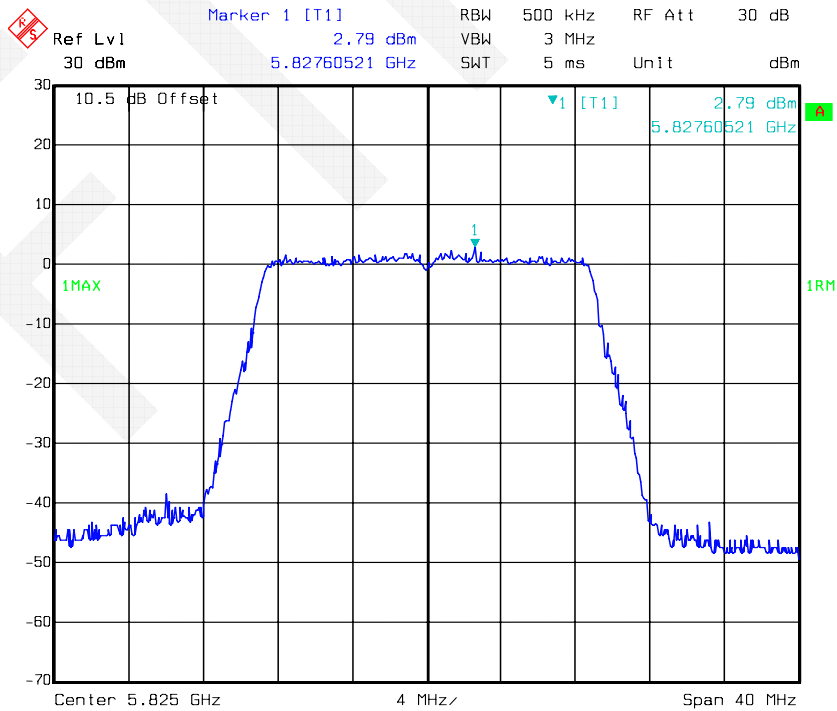


802.11ac20 mode, Power Spectral Density-5785 MHz, Antenna 1



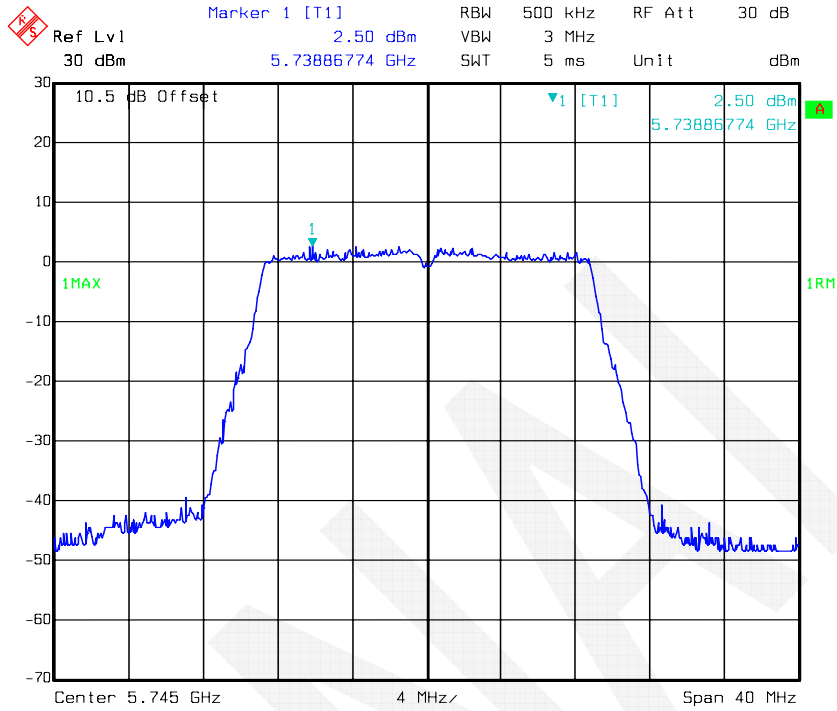
Date: 07.MAR.2018 13:32:49

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

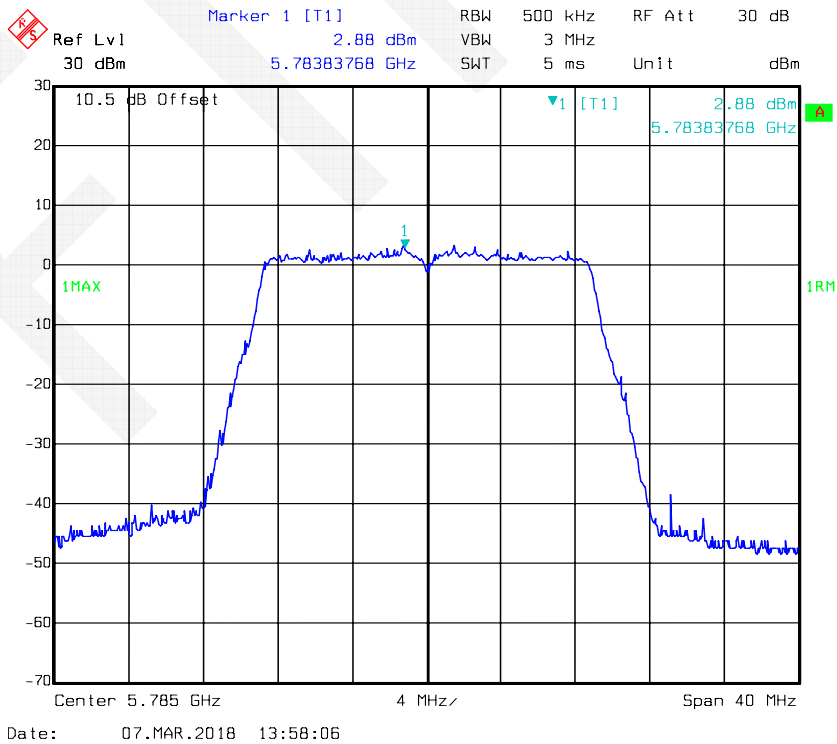


Date: 07.MAR.2018 13:33:40

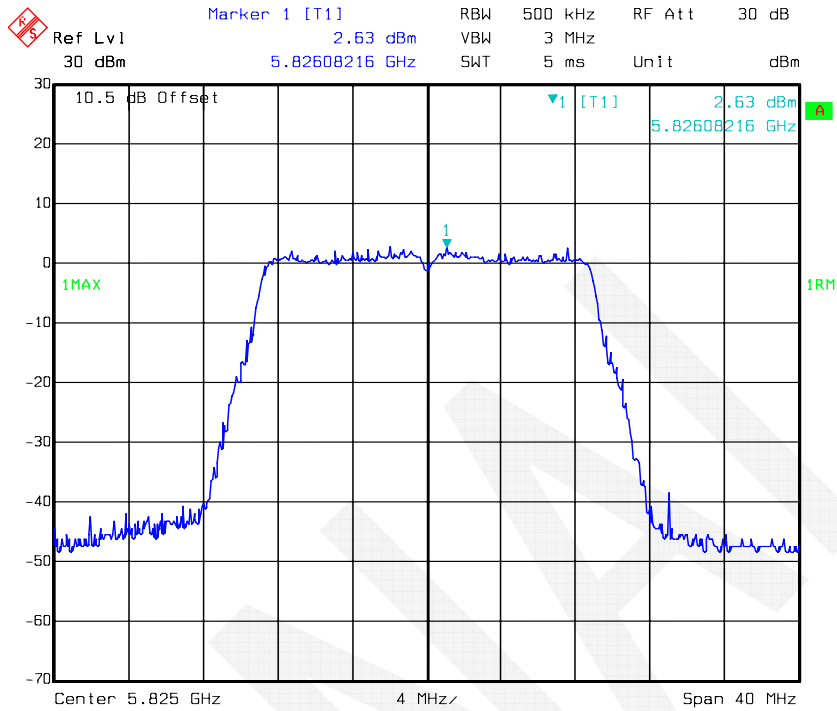
802.11ac20 mode, Power Spectral Density-5745 MHz, Antenna 2



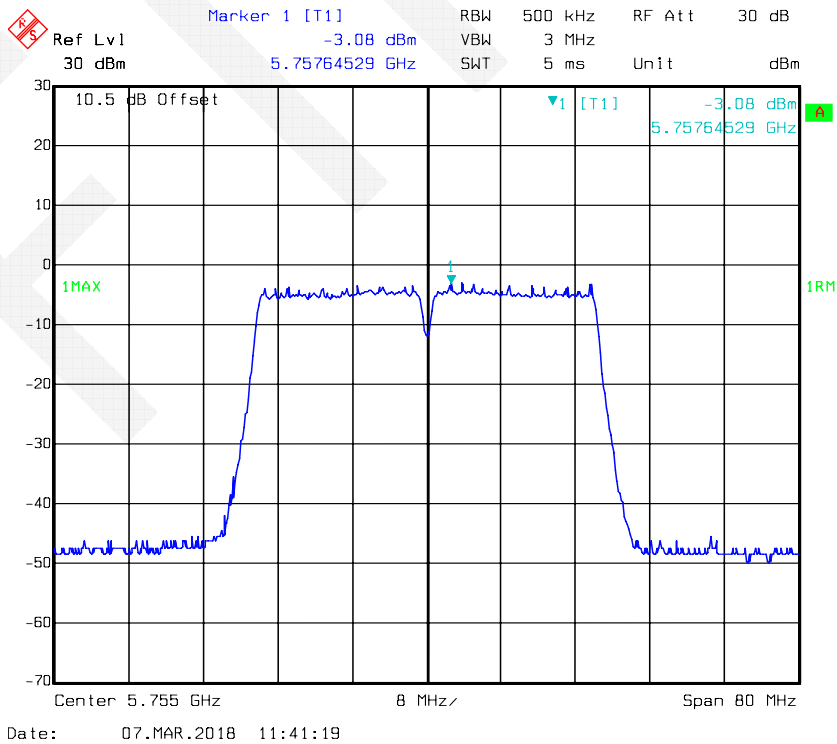
802.11ac20 mode, Power Spectral Density-5785 MHz, Antenna 2



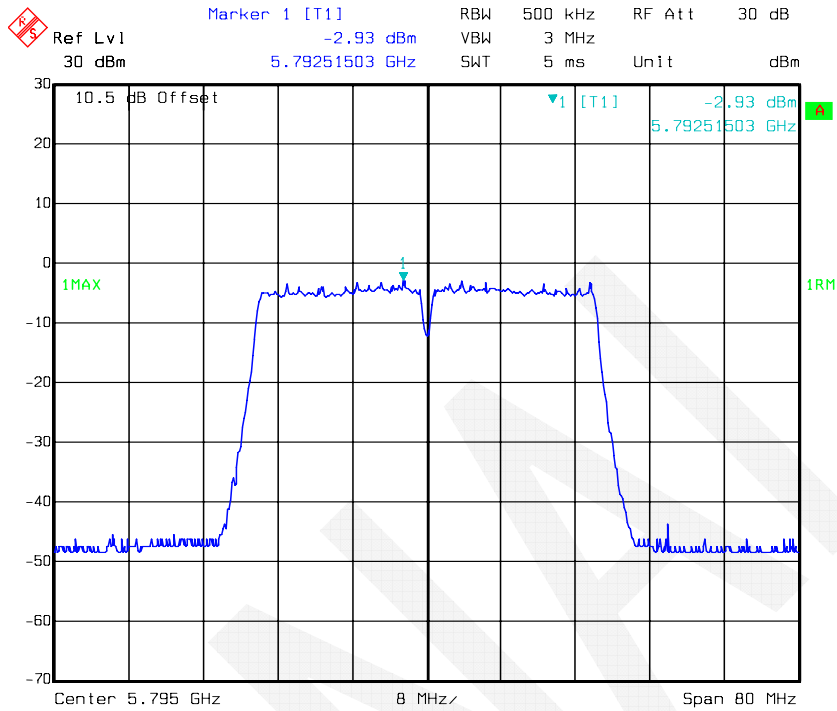
802.11ac20 mode, Power Spectral Density-5825 MHz, Antenna 2



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

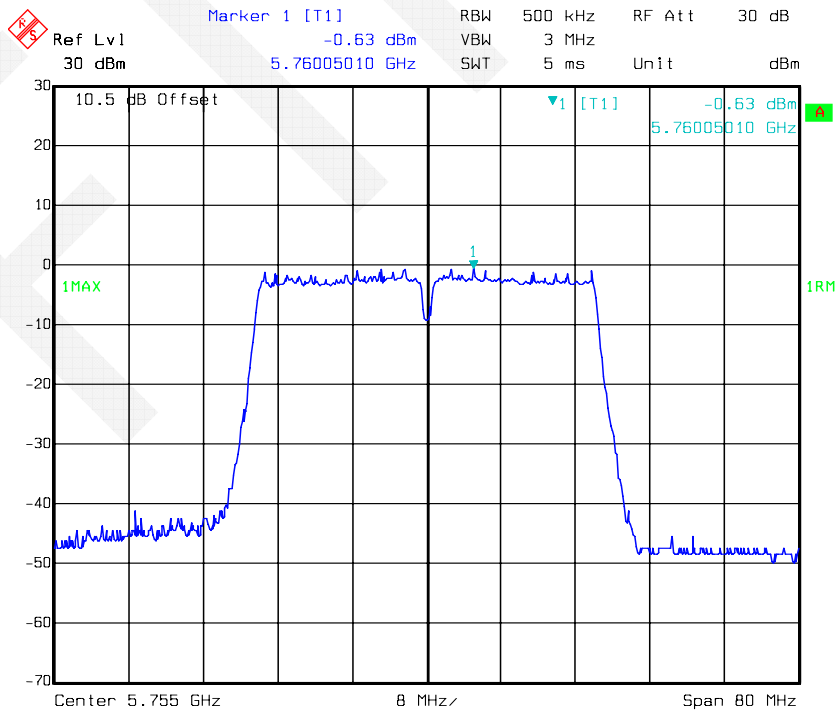


802.11ac40 mode, Power Spectral Density-5795 MHz, Antenna 0



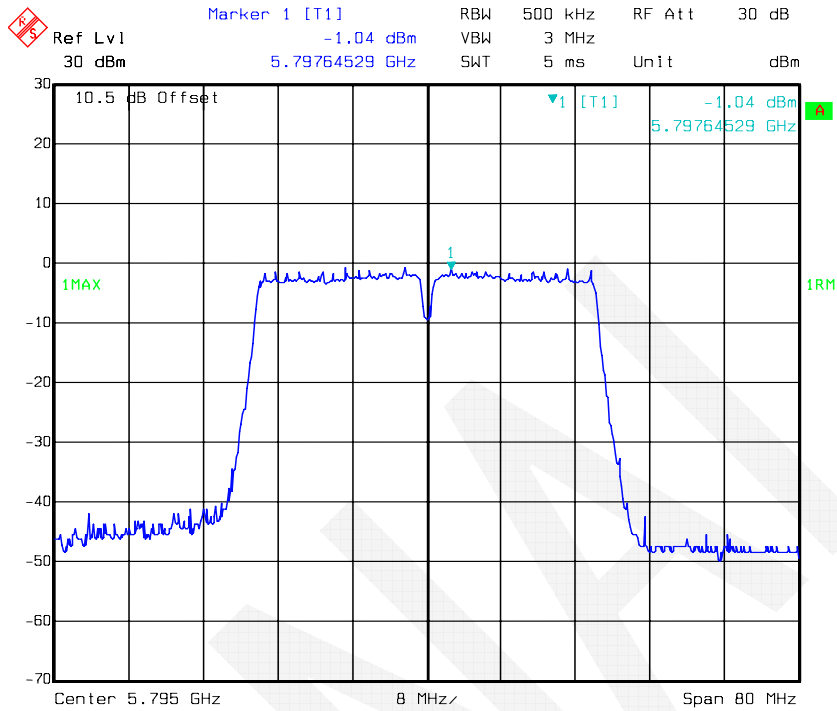
Date: 07.MAR.2018 11:41:43

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



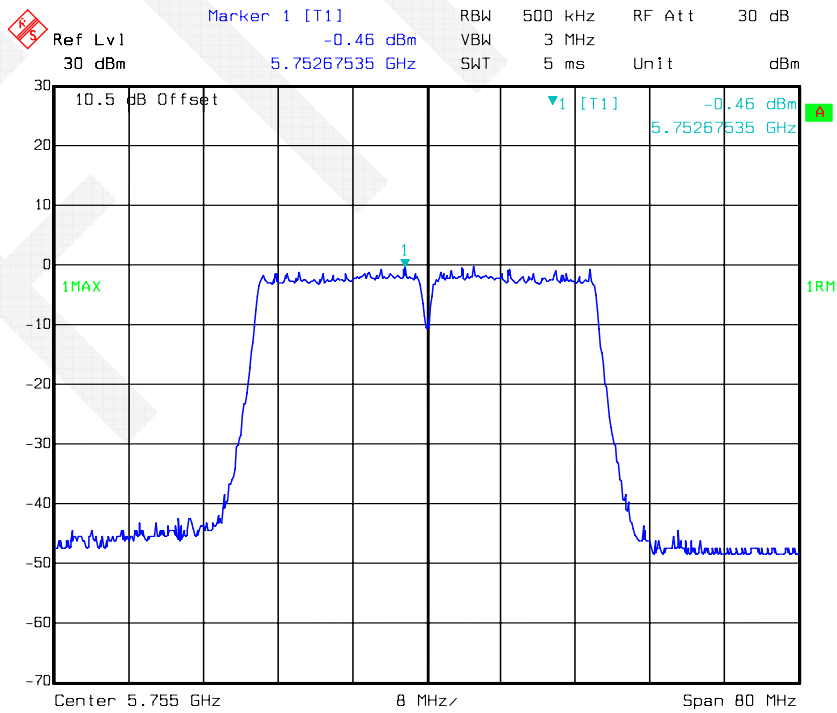
Date: 07.MAR.2018 13:36:05

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



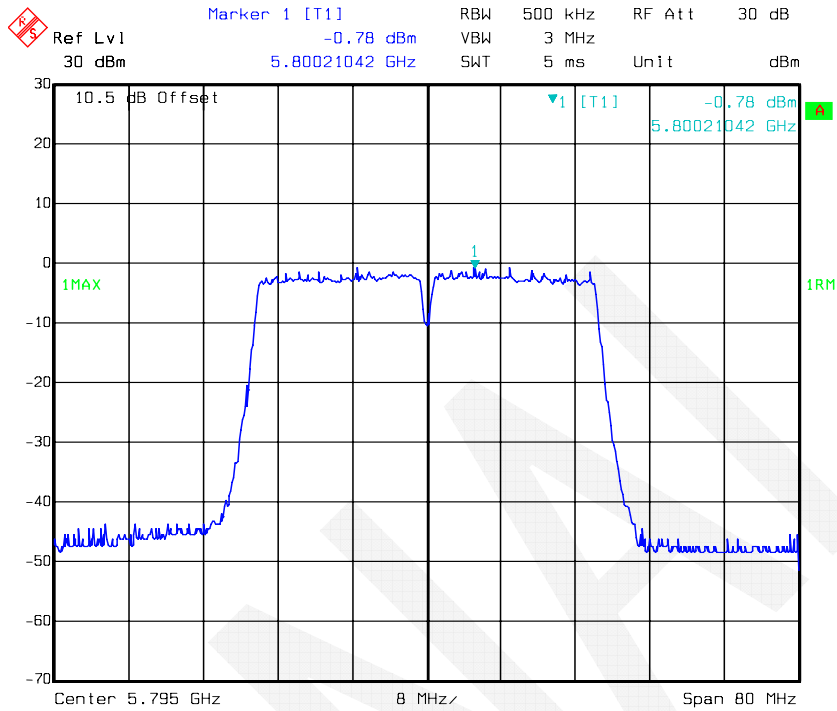
Date: 07.MAR.2018 13:36:30

802.11ac40 mode, Power Spectral Density-5755 MHz, Antenna 2

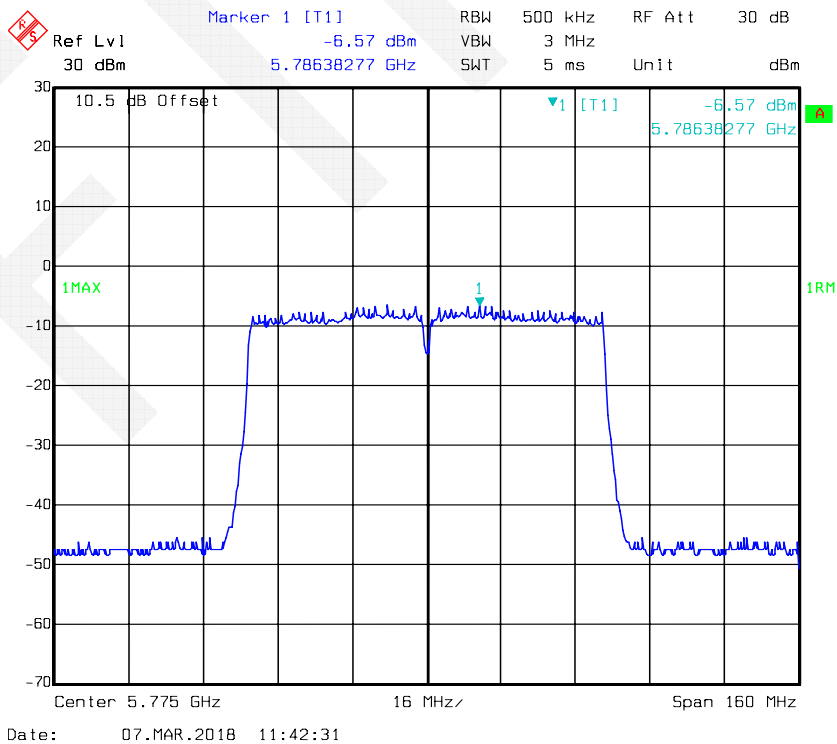


Date: 07.MAR.2018 14:02:43

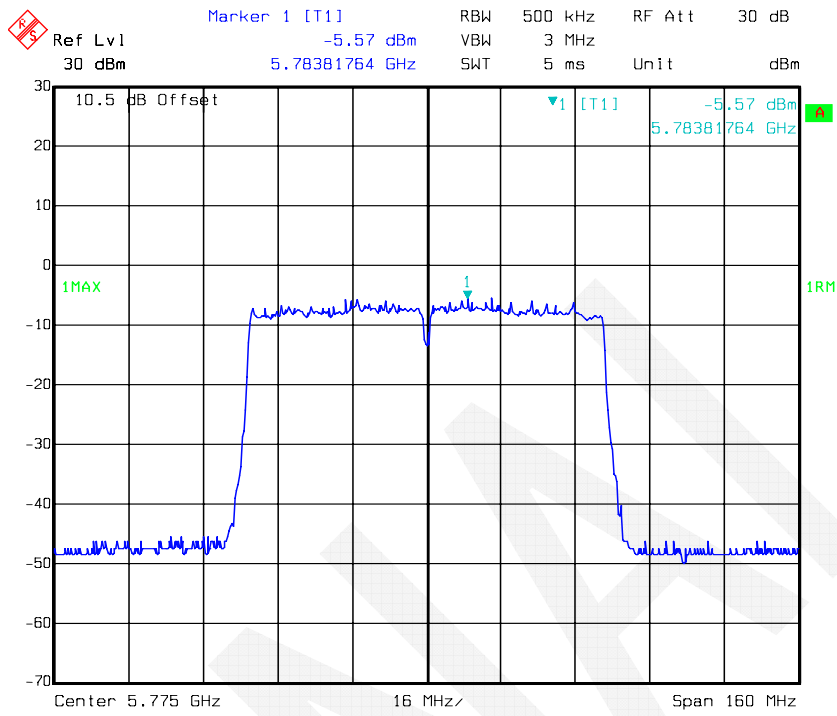
802.11ac40 mode, Power Spectral Density-5795 MHz, Antenna 2



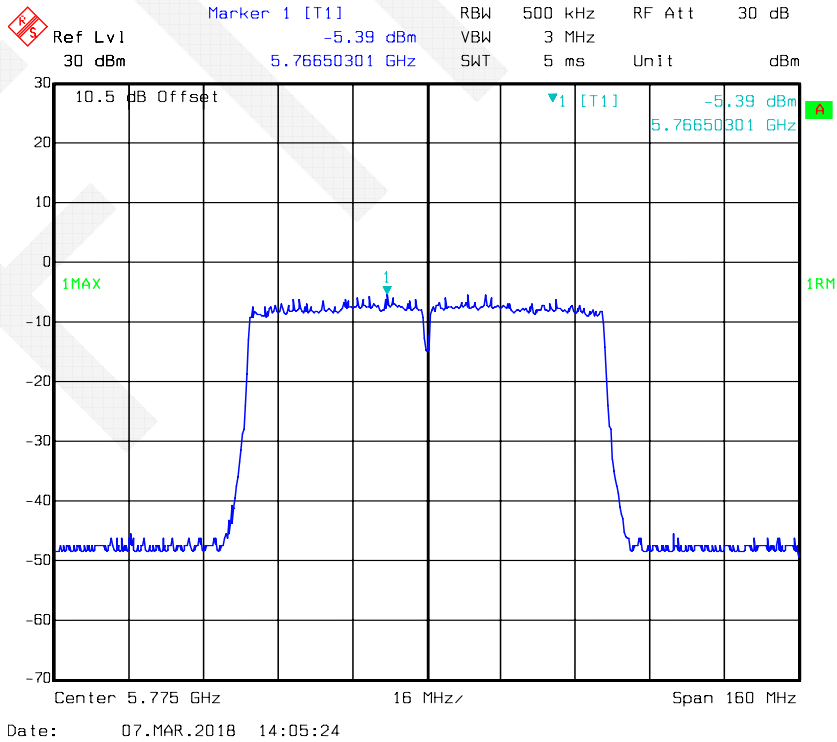
802.11ac80 mode, Power Spectral Density-5775 MHz, Antenna 0



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



802.11ac80 mode, Power Spectral Density-5775 MHz, Antenna 2



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