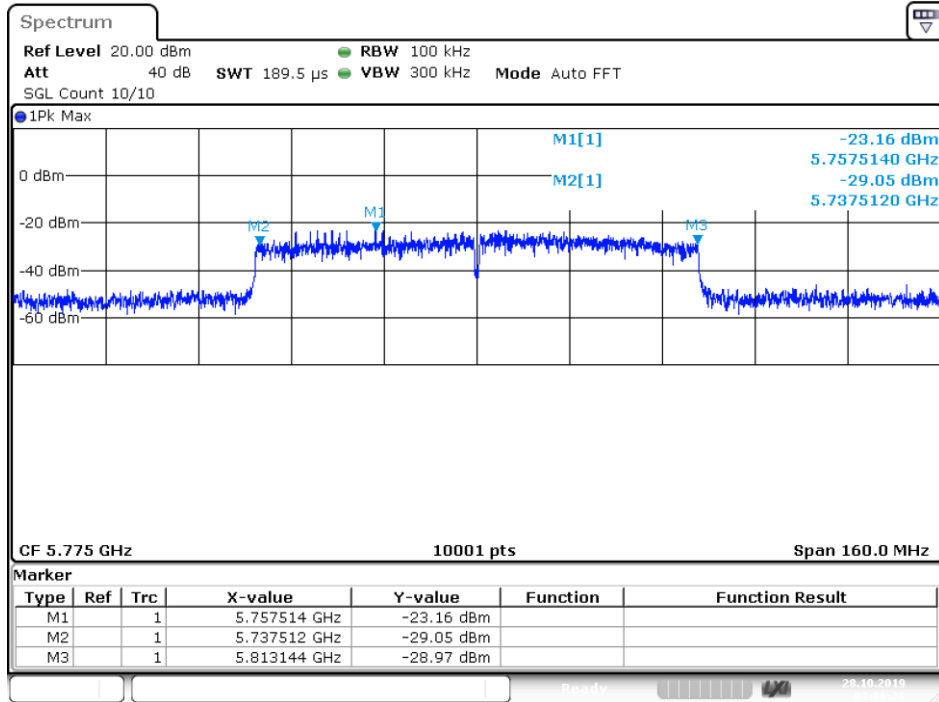
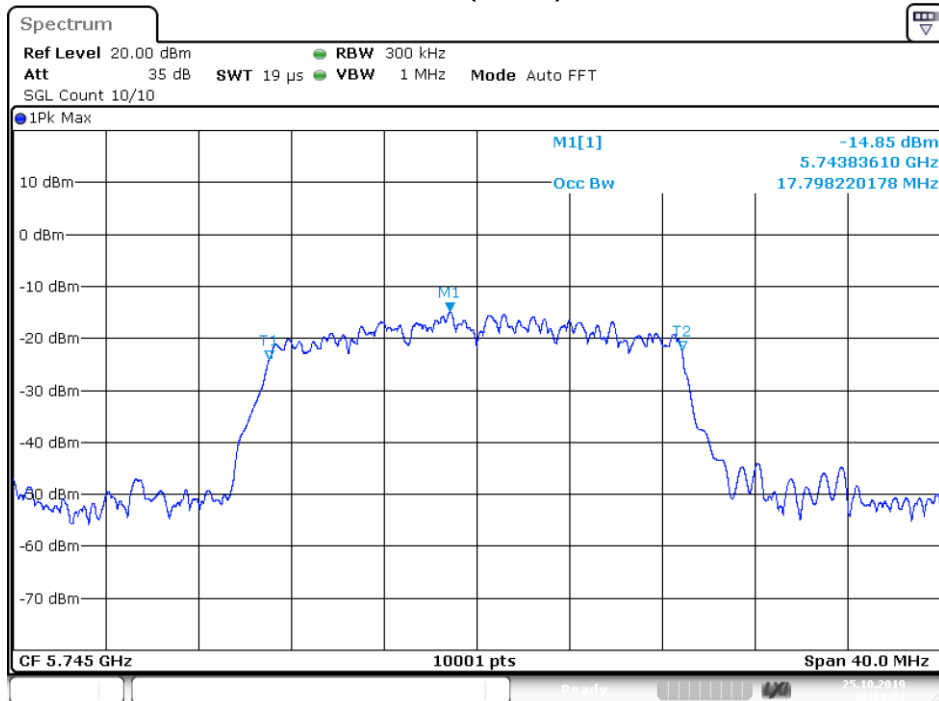
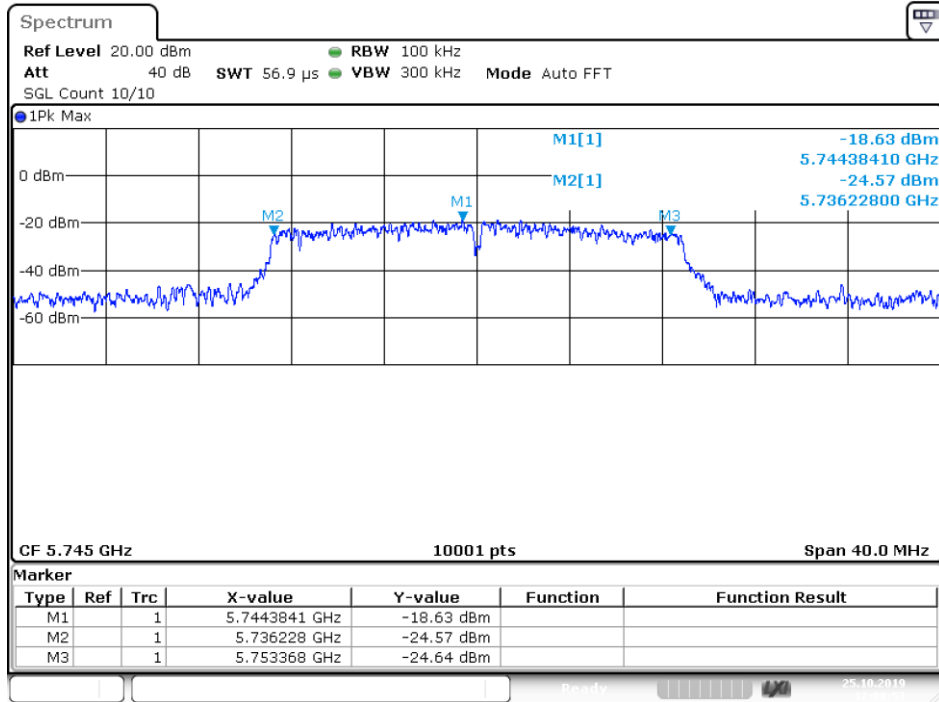


-6 dB BW NVNT 802.11ac80 5775MHz Ant1

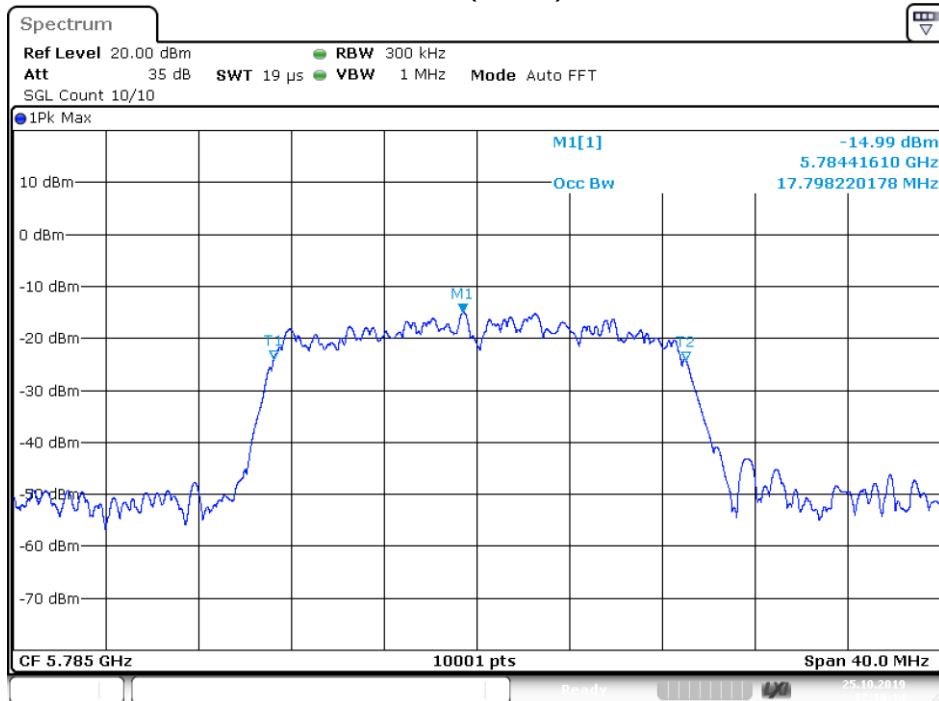
Date: 28.OCT.2019 03:06:25

OBW NVNT 802.11n(HT20) 5745MHz Ant1

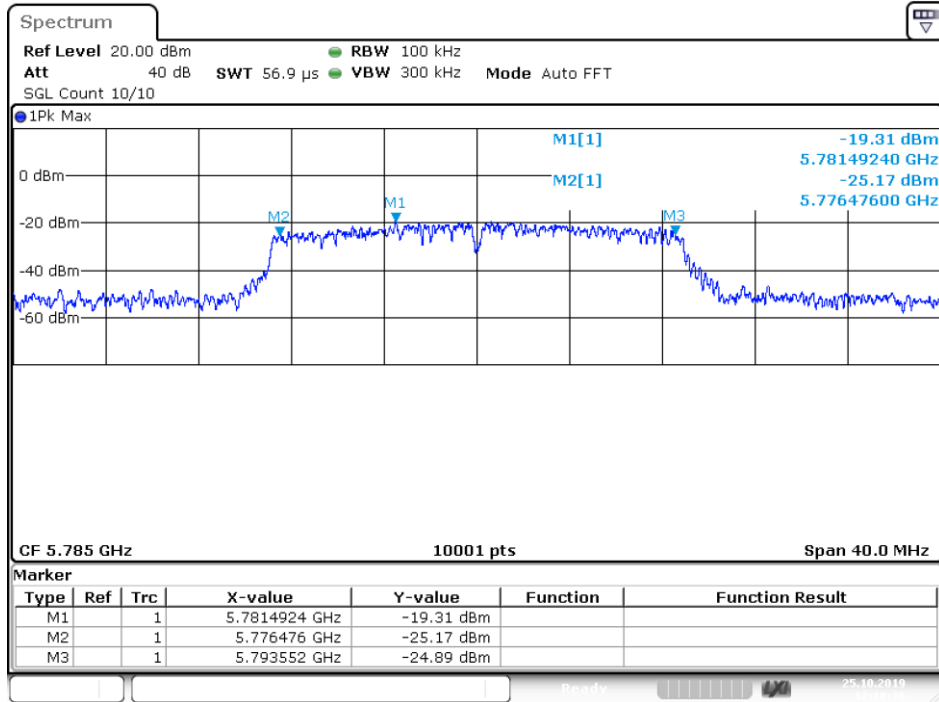
Date: 25.OCT.2019 12:08:51

-6 dB BW NVNT 802.11n(HT20) 5745MHz Ant1

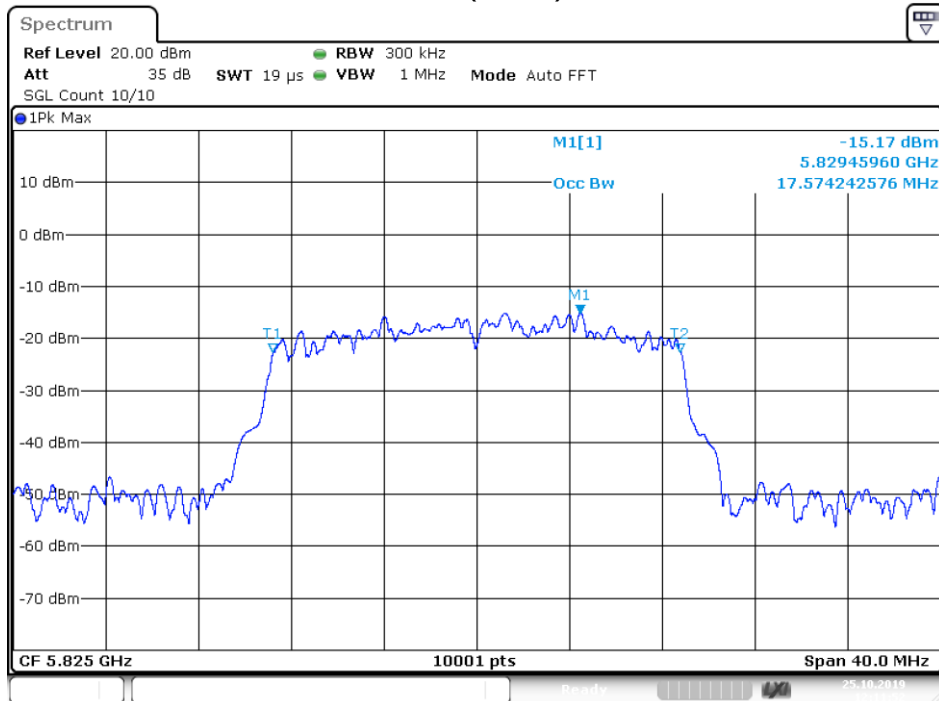
Date: 25.OCT.2019 12:08:53

OBW NVNT 802.11n(HT20) 5785MHz Ant1

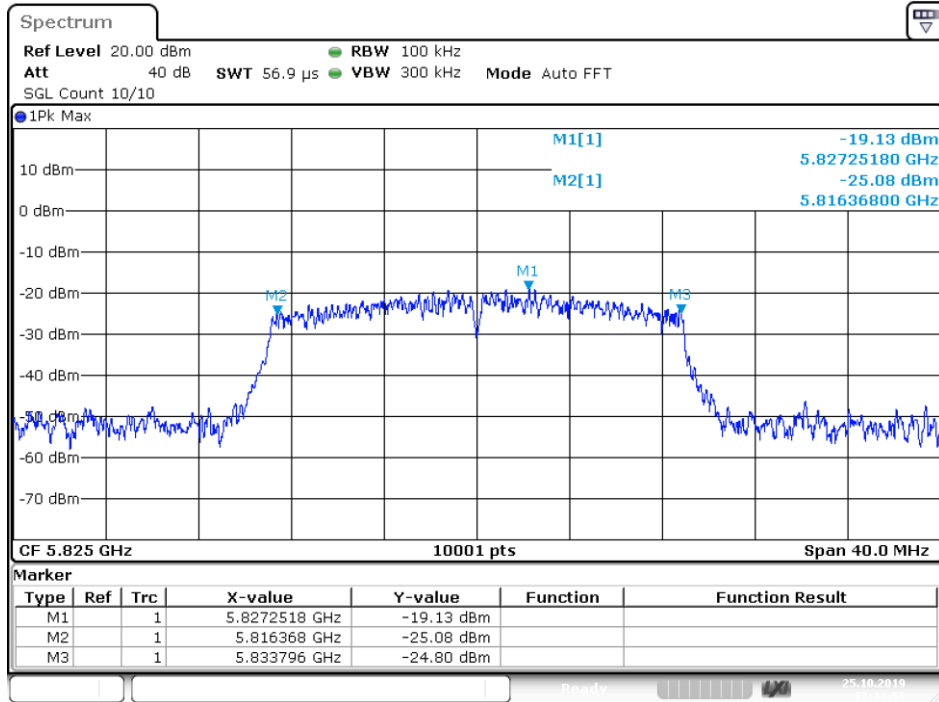
Date: 25.OCT.2019 12:10:14

-6 dB BW NVNT 802.11n(HT20) 5785MHz Ant1

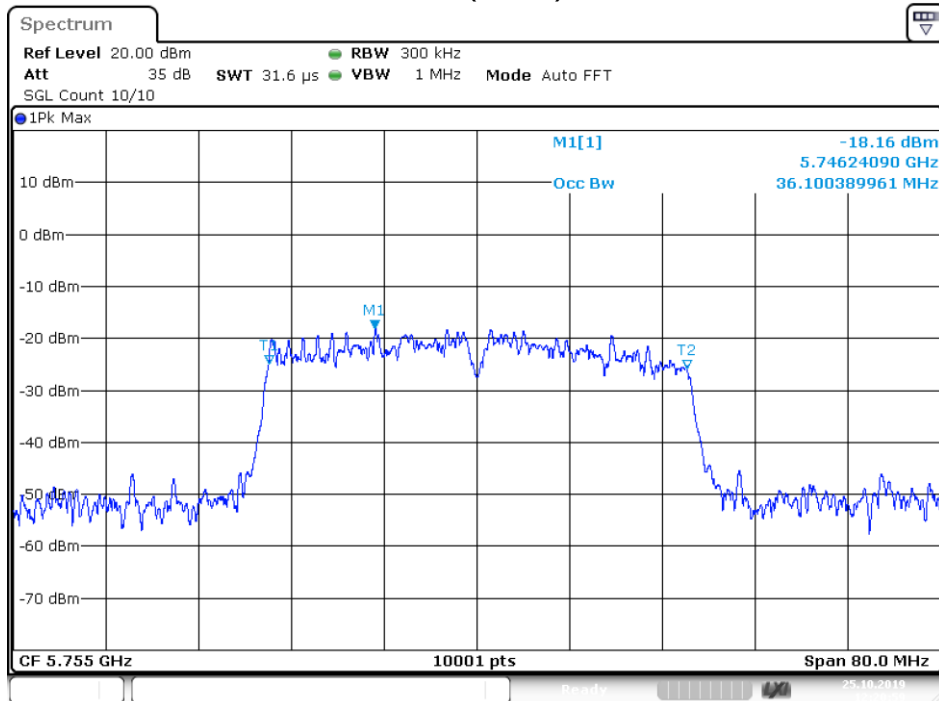
Date: 25.OCT.2019 12:10:17

OBW NVNT 802.11n(HT20) 5825MHz Ant1

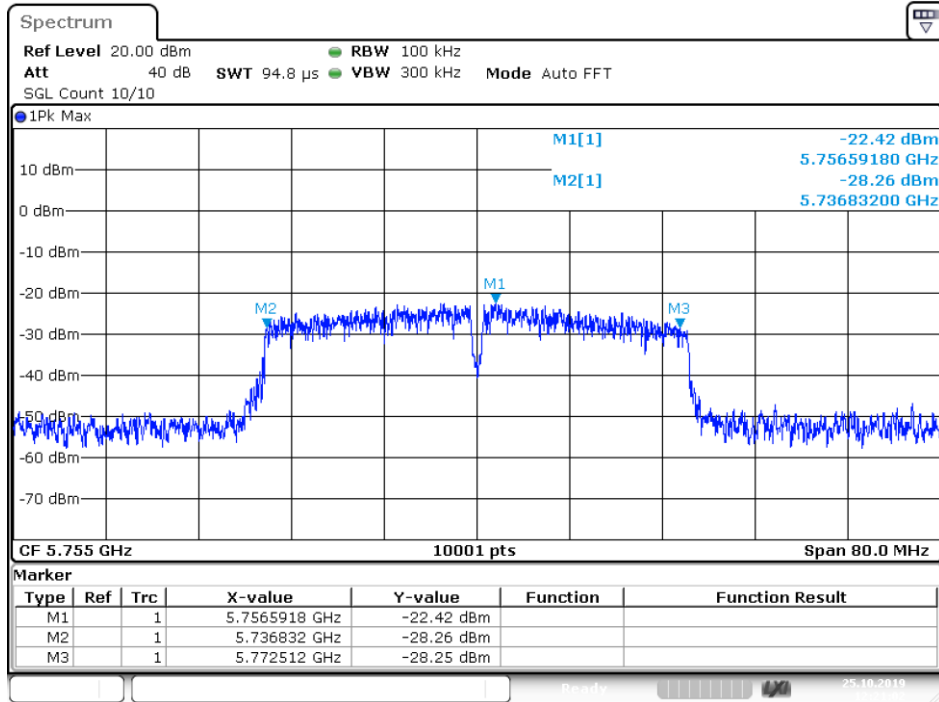
Date: 25.OCT.2019 12:11:53

-6 dB BW NVNT 802.11n(HT20) 5825MHz Ant1

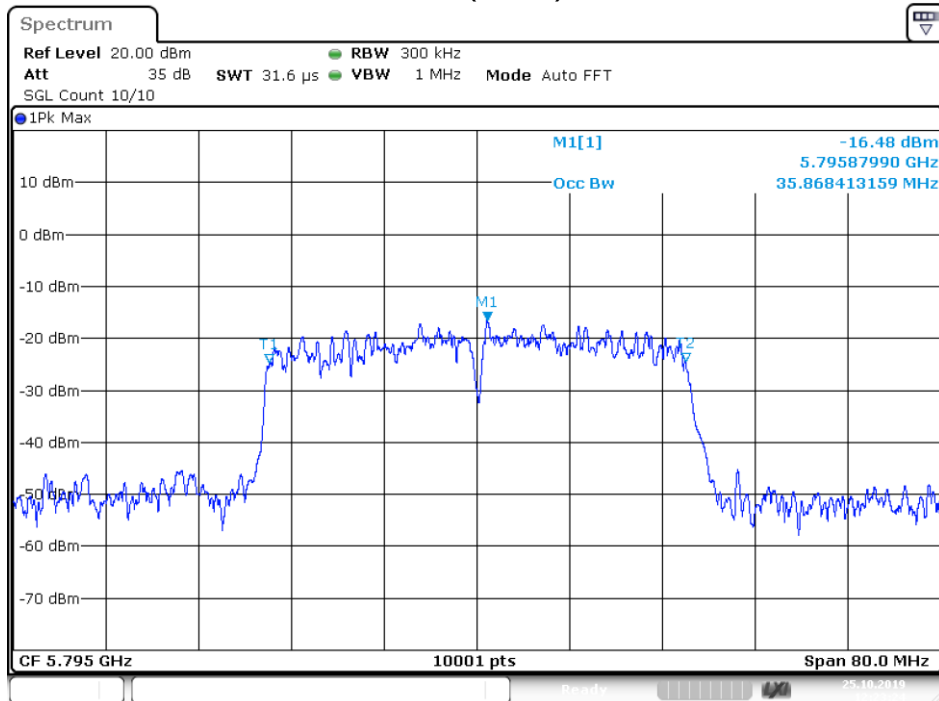
Date: 25.OCT.2019 12:11:56

OBW NVNT 802.11n(HT40) 5755MHz Ant1

Date: 25.OCT.2019 12:20:59

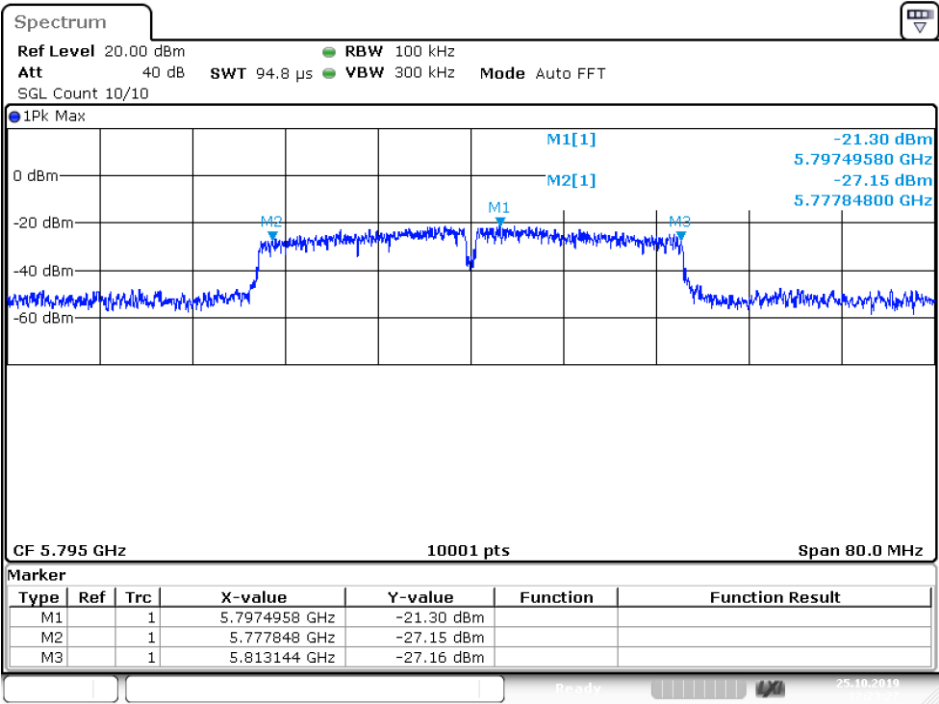
-6 dB BW NVNT 802.11n(HT40) 5755MHz Ant1

Date: 25.OCT.2019 12:21:02

OBW NVNT 802.11n(HT40) 5795MHz Ant1

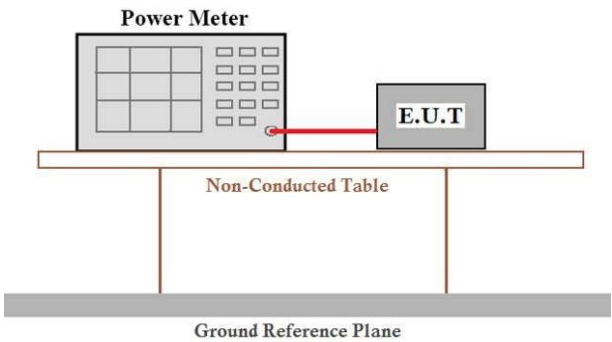
Date: 25.OCT.2019 12:23:23

-6 dB BW NVNT 802.11n(HT40) 5795MHz Ant1



Date: 25.OCT.2019 12:23:26

4.3 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W.
Test setup:	 The diagram illustrates the test setup. A 'Power Meter' is connected to an 'E.U.T.' (Equipment Under Test) via a red cable. Both the Power Meter and the E.U.T. are placed on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.
Test procedure:	Measurement using an RF PK power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the PK power of the transmitter. This measurement is a PK over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test results:	Pass

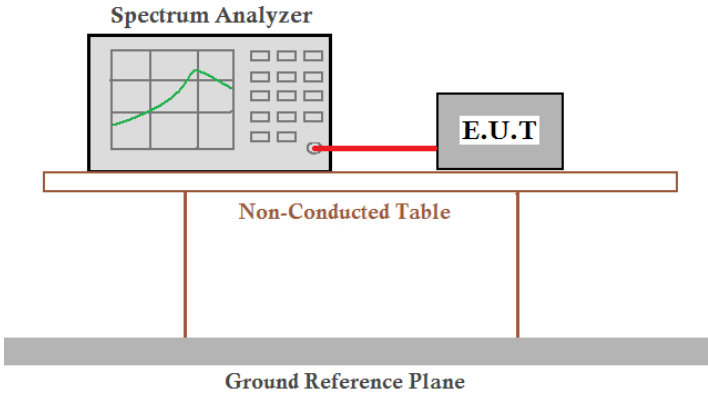
Measurement Data

U-NII-1						
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	8.43	24	Pass
NVNT	802.11a	5200	Ant 1	5.30	24	Pass
NVNT	802.11a	5240	Ant 1	5.54	24	Pass
NVNT	802.11ac20	5180	Ant 1	6.04	24	Pass
NVNT	802.11ac20	5200	Ant 1	5.10	24	Pass
NVNT	802.11ac20	5240	Ant 1	4.84	24	Pass
NVNT	802.11ac40	5190	Ant 1	4.84	24	Pass
NVNT	802.11ac40	5230	Ant 1	5.29	24	Pass
NVNT	802.11ac80	5210	Ant 1	2.98	24	Pass
NVNT	802.11n(HT20)	5180	Ant 1	5.86	24	Pass
NVNT	802.11n(HT20)	5200	Ant 1	5.37	24	Pass
NVNT	802.11n(HT20)	5240	Ant 1	5.35	24	Pass
NVNT	802.11n(HT40)	5190	Ant 1	4.61	24	Pass
NVNT	802.11n(HT40)	5230	Ant 1	5.29	24	Pass

U-NII-2A						
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	3.298	24	Pass
NVNT	802.11a	5280	Ant 1	3.144	24	Pass
NVNT	802.11a	5320	Ant 1	3.875	24	Pass
NVNT	802.11ac20	5260	Ant 1	2.795	24	Pass
NVNT	802.11ac20	5280	Ant 1	2.499	24	Pass
NVNT	802.11ac20	5320	Ant 1	3.583	24	Pass
NVNT	802.11ac40	5270	Ant 1	2.113	24	Pass
NVNT	802.11ac40	5310	Ant 1	2.073	24	Pass
NVNT	802.11ac80	5290	Ant 1	-0.485	24	Pass
NVNT	802.11n(HT20)	5260	Ant 1	2.766	24	Pass
NVNT	802.11n(HT20)	5280	Ant 1	2.792	24	Pass
NVNT	802.11n(HT20)	5320	Ant 1	3.574	24	Pass
NVNT	802.11n(HT40)	5270	Ant 1	2.094	24	Pass
NVNT	802.11n(HT40)	5310	Ant 1	2.241	24	Pass

U-NII-3						
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	Ant 1	-1.425	30	Pass
NVNT	802.11a	5785	Ant 1	-2.978	30	Pass
NVNT	802.11a	5825	Ant 1	-2.714	30	Pass
NVNT	802.11ac20	5745	Ant 1	-2.309	30	Pass
NVNT	802.11ac20	5785	Ant 1	-3.268	30	Pass
NVNT	802.11ac20	5825	Ant 1	-3.191	30	Pass
NVNT	802.11ac40	5755	Ant 1	-5.574	30	Pass
NVNT	802.11ac40	5795	Ant 1	-3.974	30	Pass
NVNT	802.11ac80	5775	Ant 1	-8.559	30	Pass
NVNT	802.11n(HT20)	5745	Ant 1	-2.135	30	Pass
NVNT	802.11n(HT20)	5785	Ant 1	-3.281	30	Pass
NVNT	802.11n(HT20)	5825	Ant 1	-2.349	30	Pass
NVNT	802.11n(HT40)	5755	Ant 1	-5.091	30	Pass
NVNT	802.11n(HT40)	5795	Ant 1	-5.518	30	Pass

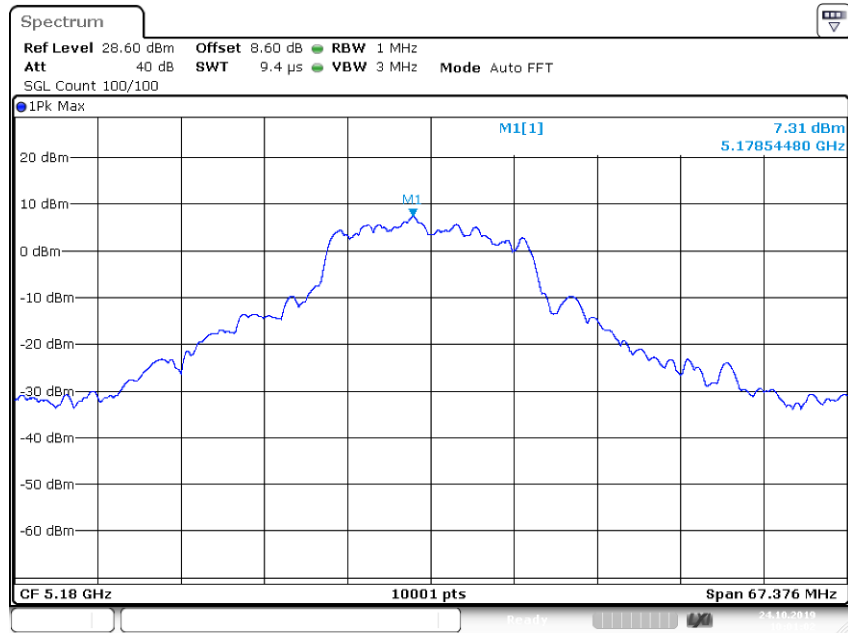
4.4 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	$\leq 11.00\text{dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz $\leq 30.00\text{dBm/500KHz}$ for 5725MHz-5850MHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test results:	Pass

Measurement Data

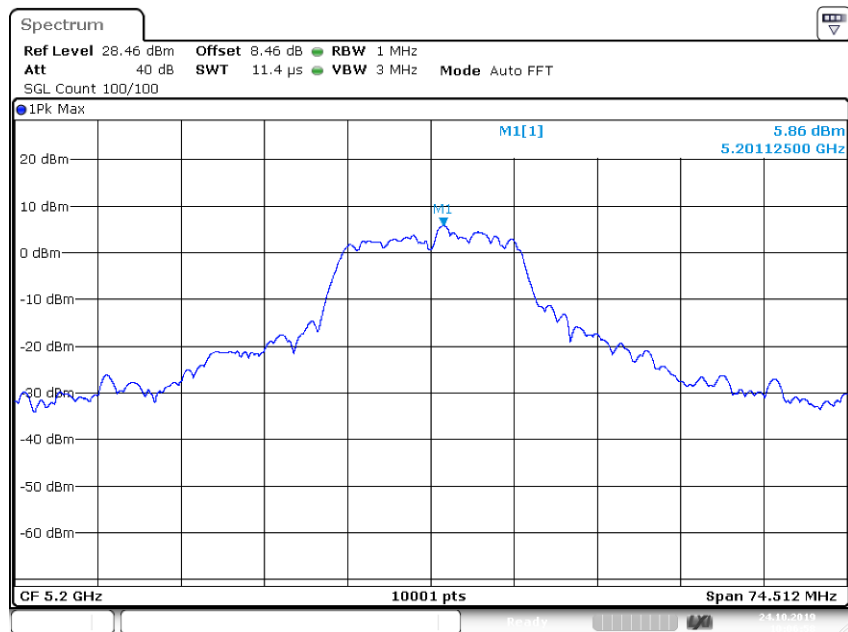
U-NII-1						
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	7.31	11	Pass
NVNT	802.11a	5200	Ant 1	5.86	11	Pass
NVNT	802.11a	5240	Ant 1	5.88	11	Pass
NVNT	802.11ac20	5180	Ant 1	6.33	11	Pass
NVNT	802.11ac20	5200	Ant 1	5.19	11	Pass
NVNT	802.11ac20	5240	Ant 1	5.01	11	Pass
NVNT	802.11ac40	5190	Ant 1	2.91	11	Pass
NVNT	802.11ac40	5230	Ant 1	3.82	11	Pass
NVNT	802.11ac80	5210	Ant 1	2.60	11	Pass
NVNT	802.11n(HT20)	5180	Ant 1	5.90	11	Pass
NVNT	802.11n(HT20)	5200	Ant 1	5.12	11	Pass
NVNT	802.11n(HT20)	5240	Ant 1	5.86	11	Pass
NVNT	802.11n(HT40)	5190	Ant 1	2.74	11	Pass
NVNT	802.11n(HT40)	5230	Ant 1	4.31	11	Pass

PSD NVNT 802.11a 5180MHz Ant1



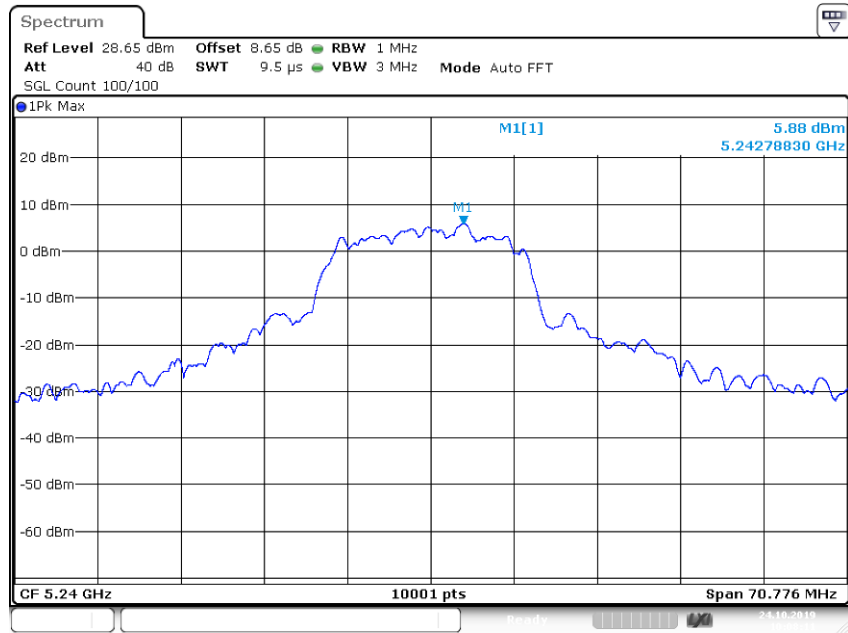
Date: 24.OCT.2019 10:01:03

PSD NVNT 802.11a 5200MHz Ant1

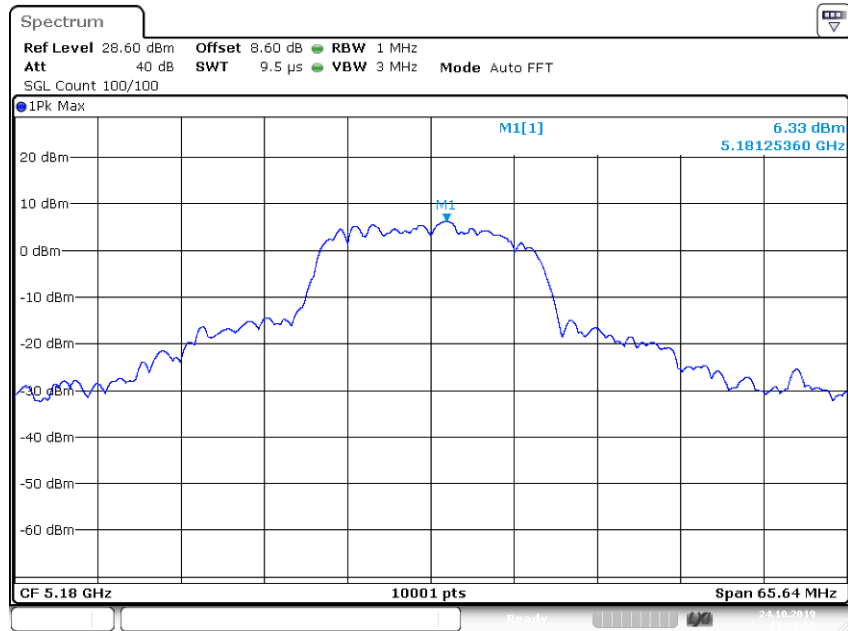


Date: 24.OCT.2019 10:06:59

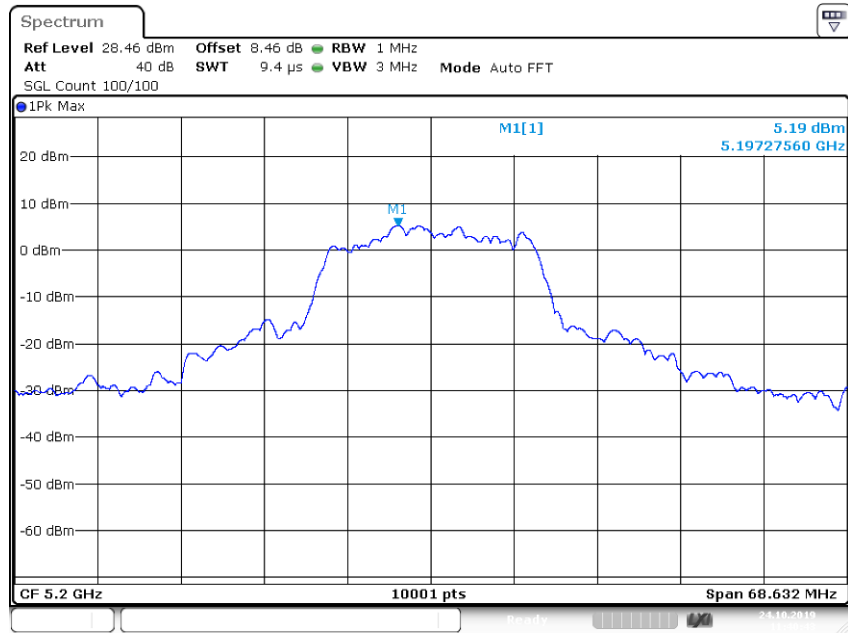
PSD NVNT 802.11a 5240MHz Ant1



PSD NVNT 802.11ac20 5180MHz Ant1

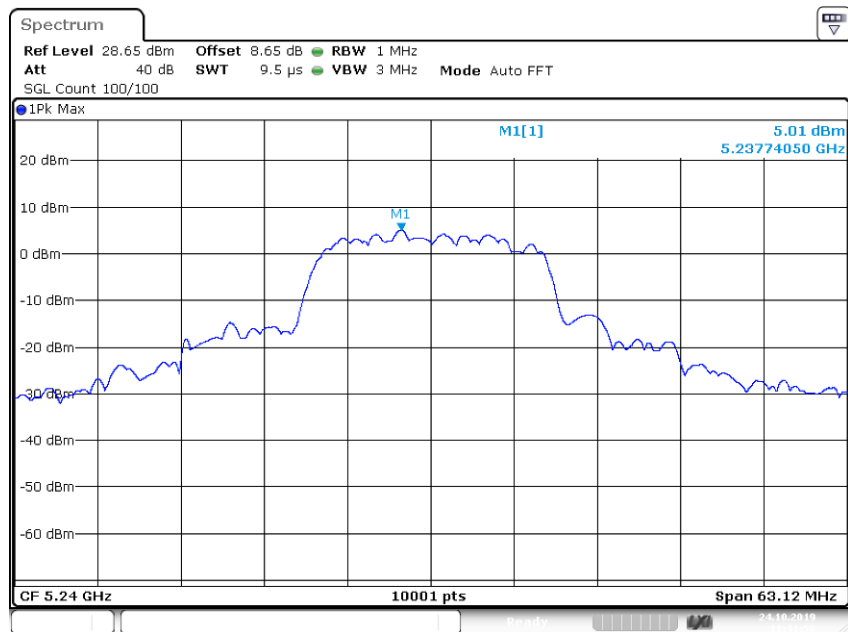


PSD NVNT 802.11ac20 5200MHz Ant1



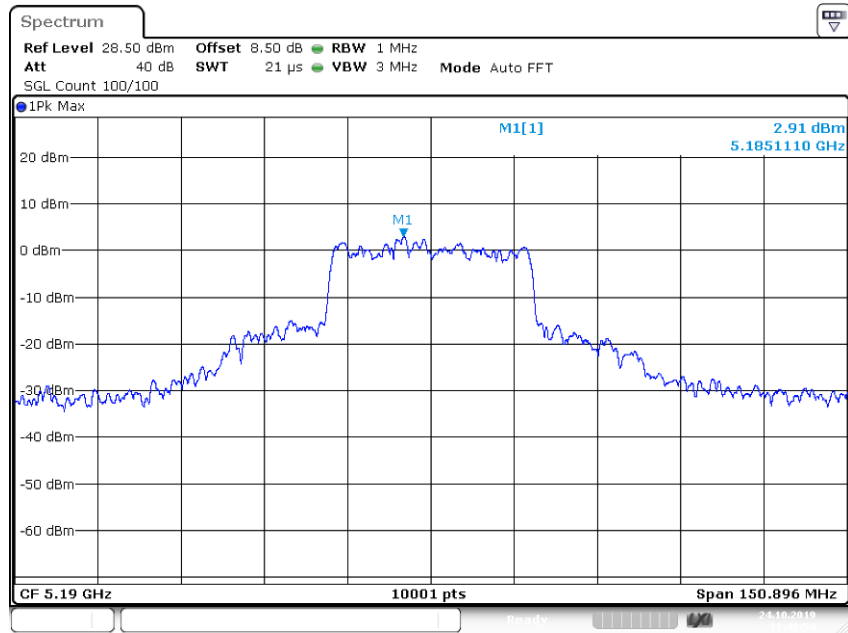
Date: 24.OCT.2019 11:40:43

PSD NVNT 802.11ac20 5240MHz Ant1



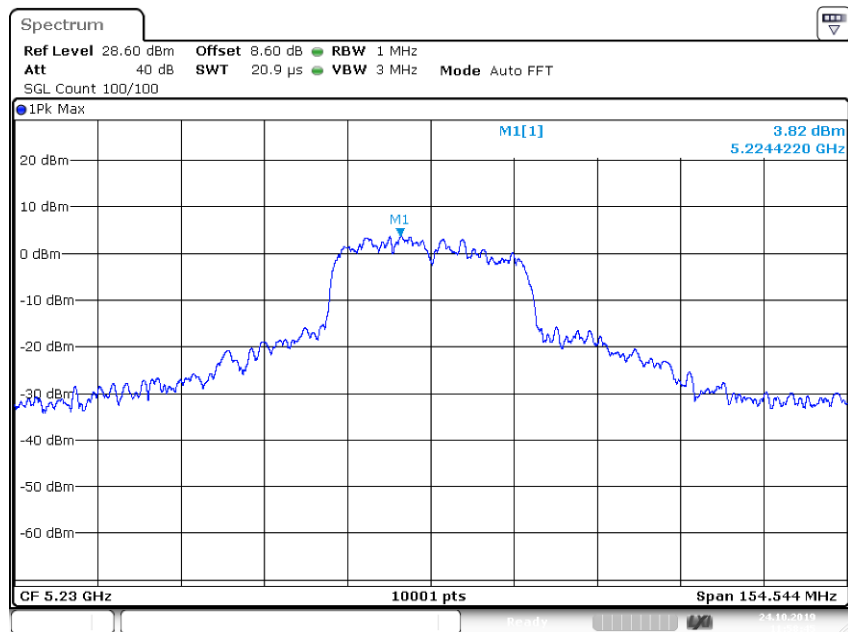
Date: 24.OCT.2019 11:41:59

PSD NVNT 802.11ac40 5190MHz Ant1



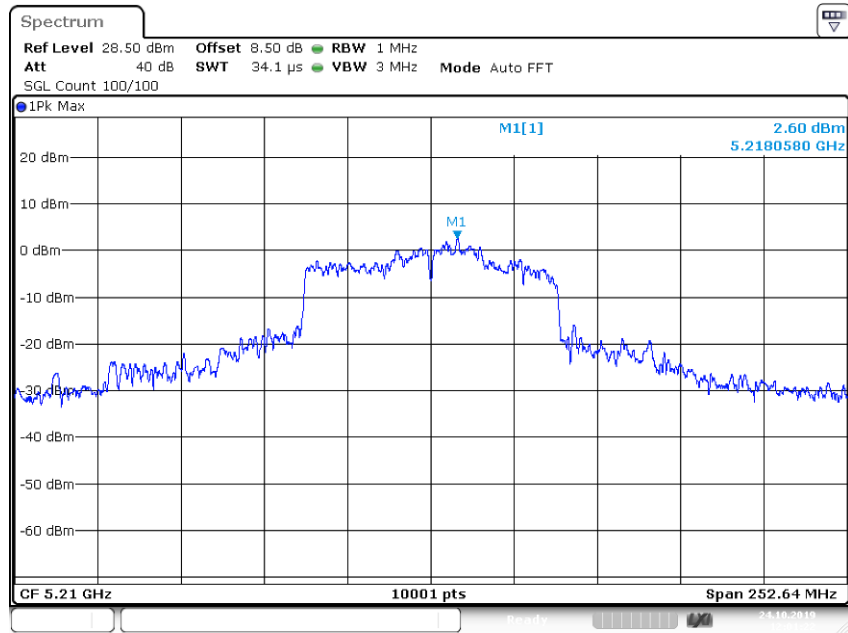
Date: 24.OCT.2019 11:48:53

PSD NVNT 802.11ac40 5230MHz Ant1



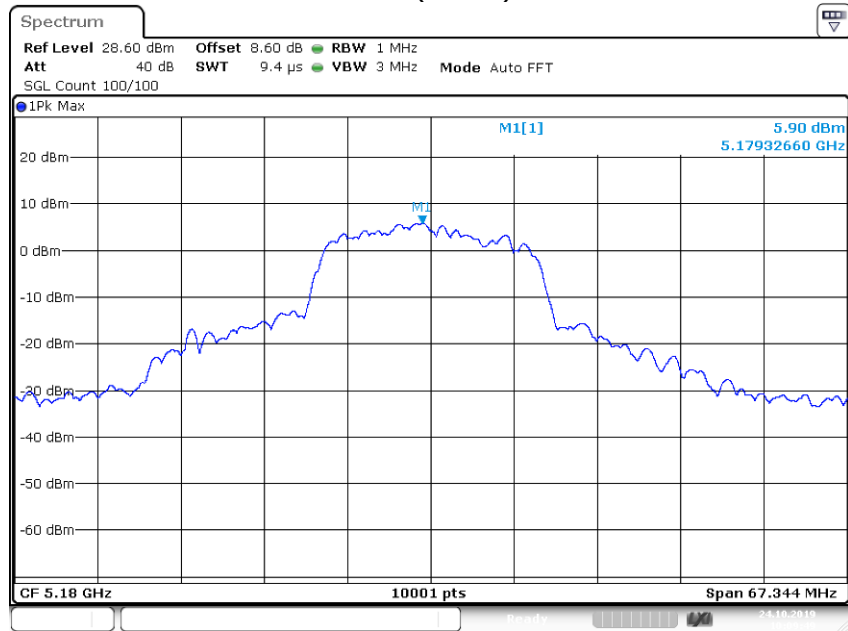
Date: 24.OCT.2019 11:58:43

PSD NVNT 802.11ac80 5210MHz Ant1



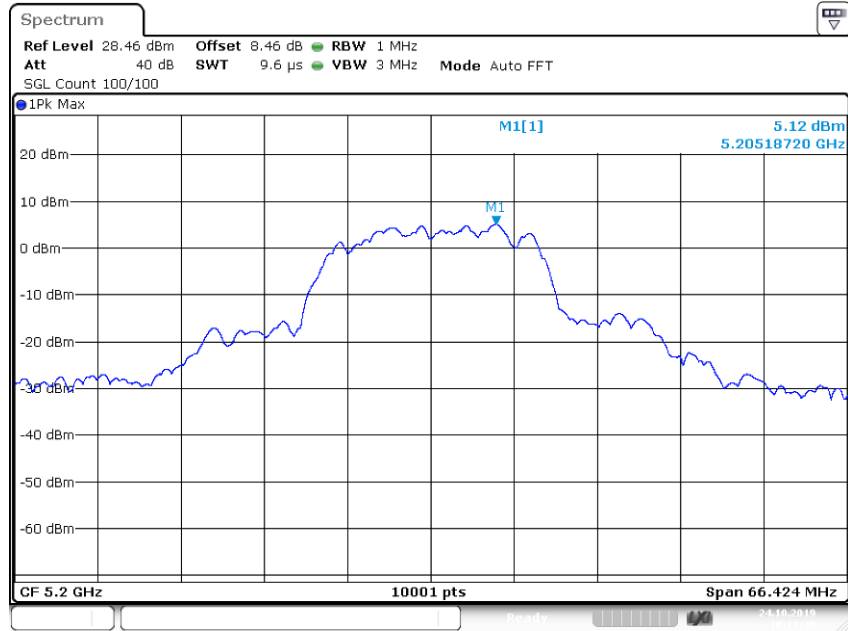
Date: 24.OCT.2019 12:01:22

PSD NVNT 802.11n(HT20) 5180MHz Ant1



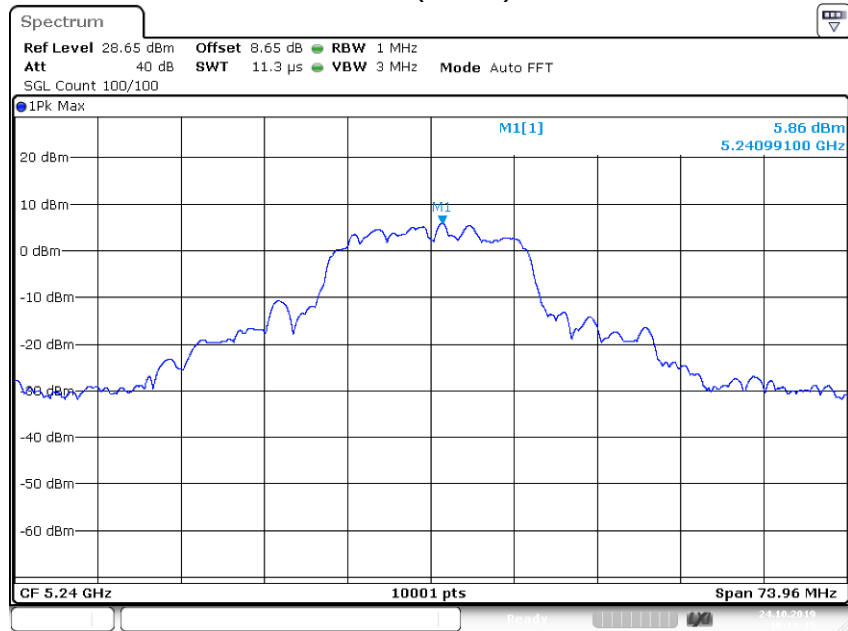
Date: 24.OCT.2019 10:09:49

PSD NVNT 802.11n(HT20) 5200MHz Ant1



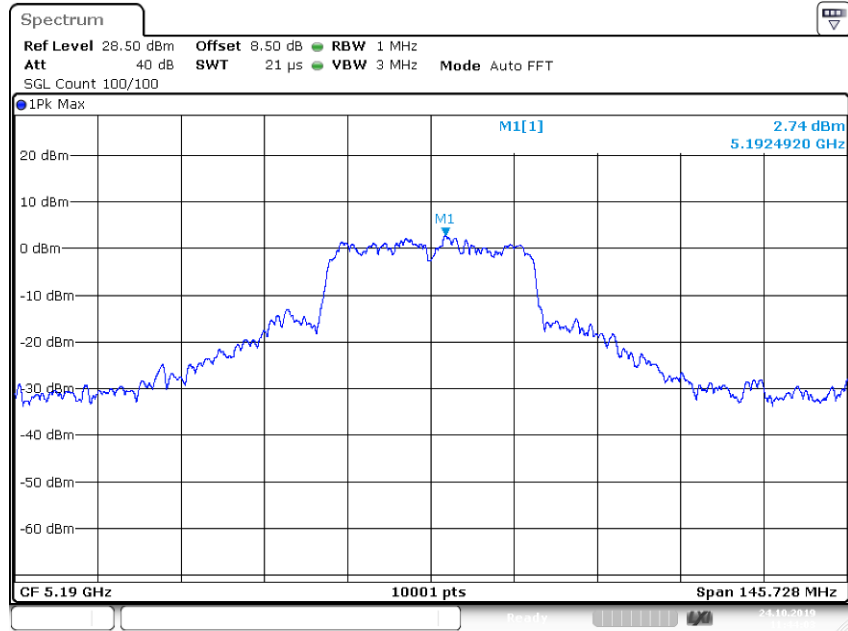
Date: 24.OCT.2019 10:11:40

PSD NVNT 802.11n(HT20) 5240MHz Ant1



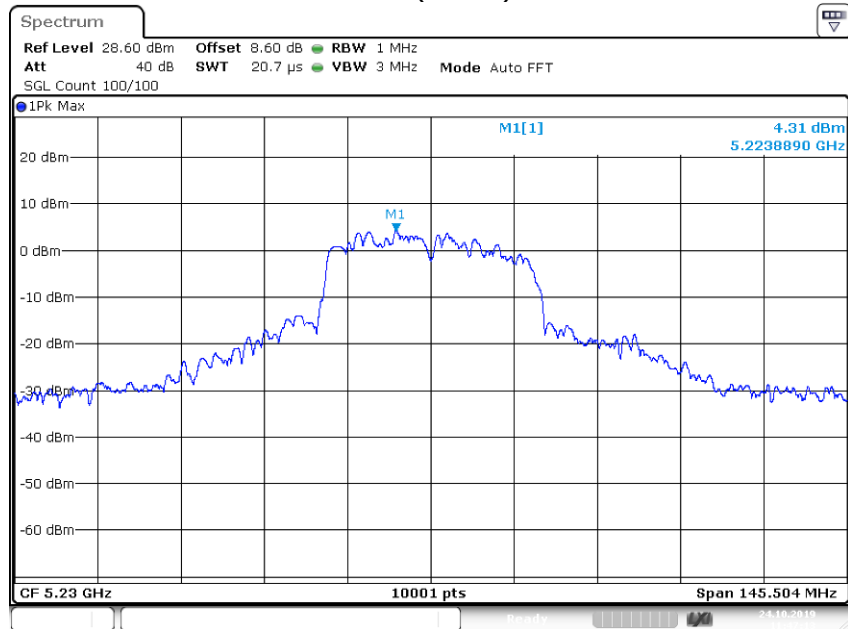
Date: 24.OCT.2019 10:13:13

PSD NVNT 802.11n(HT40) 5190MHz Ant1



Date: 24.OCT.2019 11:44:03

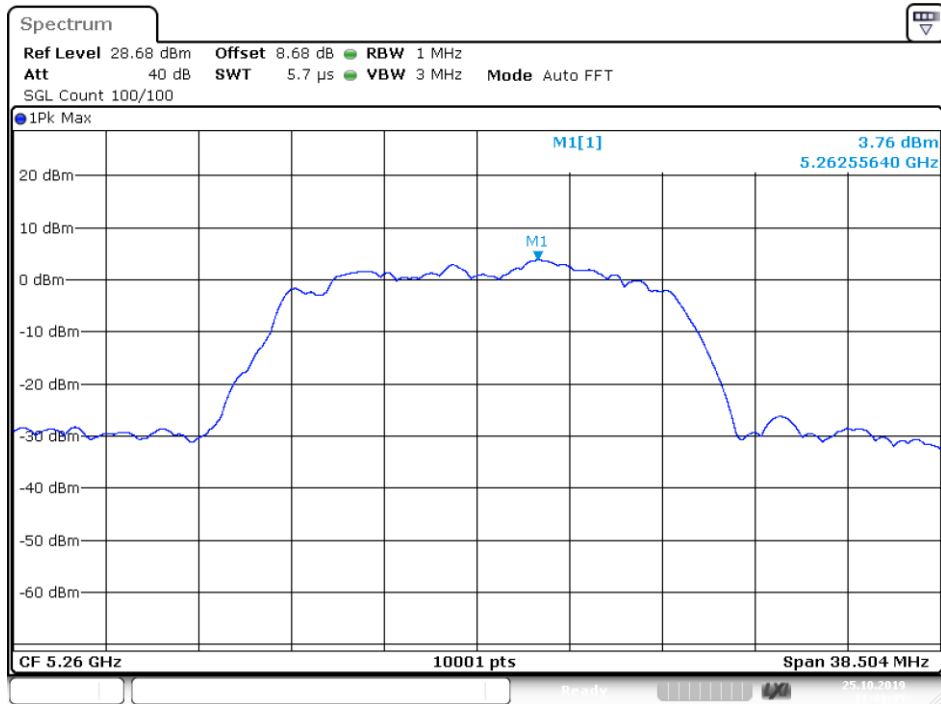
PSD NVNT 802.11n(HT40) 5230MHz Ant1



Date: 24.OCT.2019 11:47:13

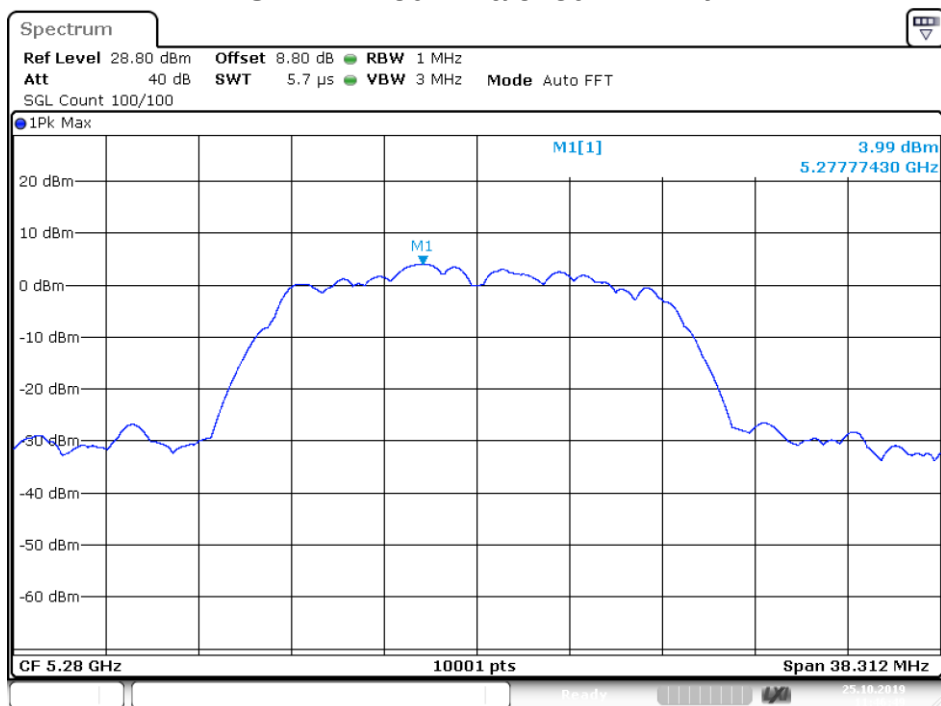
U-NII-2A						
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	3.762	11	Pass
NVNT	802.11a	5280	Ant 1	3.995	11	Pass
NVNT	802.11a	5320	Ant 1	3.61	11	Pass
NVNT	802.11ac20	5260	Ant 1	2.967	11	Pass
NVNT	802.11ac20	5280	Ant 1	3.199	11	Pass
NVNT	802.11ac20	5320	Ant 1	3.559	11	Pass
NVNT	802.11ac40	5270	Ant 1	1.456	11	Pass
NVNT	802.11ac40	5310	Ant 1	1.621	11	Pass
NVNT	802.11ac80	5290	Ant 1	-2.291	11	Pass
NVNT	802.11n(HT20)	5260	Ant 1	3.281	11	Pass
NVNT	802.11n(HT20)	5280	Ant 1	3.048	11	Pass
NVNT	802.11n(HT20)	5320	Ant 1	4.011	11	Pass
NVNT	802.11n(HT40)	5270	Ant 1	1.868	11	Pass
NVNT	802.11n(HT40)	5310	Ant 1	1.564	11	Pass

PSD NVLT 802.11a 5260MHz Ant1



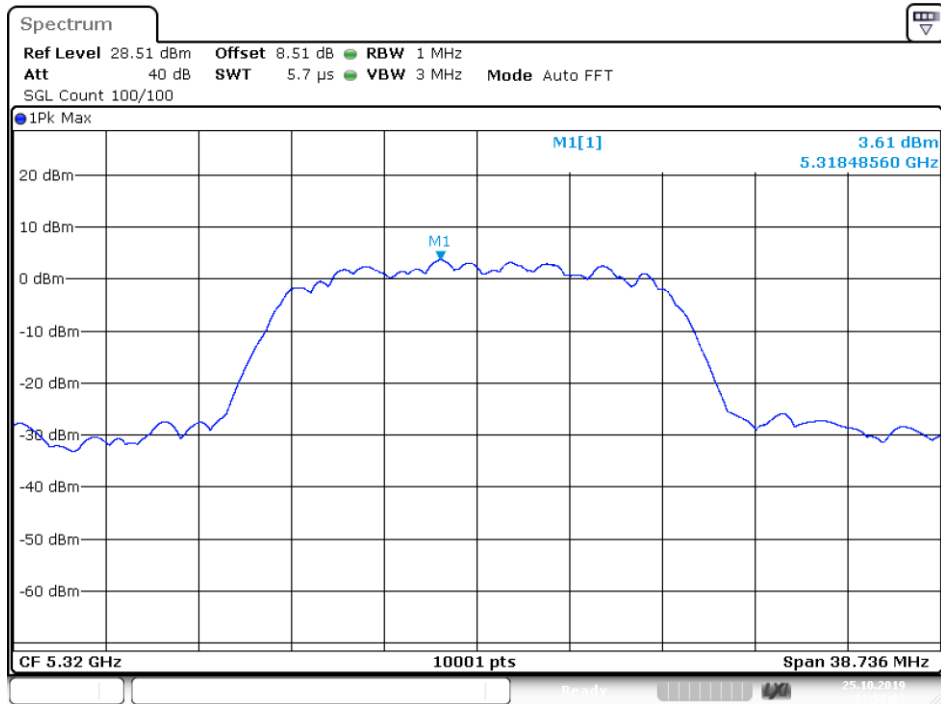
Date: 25.OCT.2019 11:43:45

PSD NVLT 802.11a 5280MHz Ant1



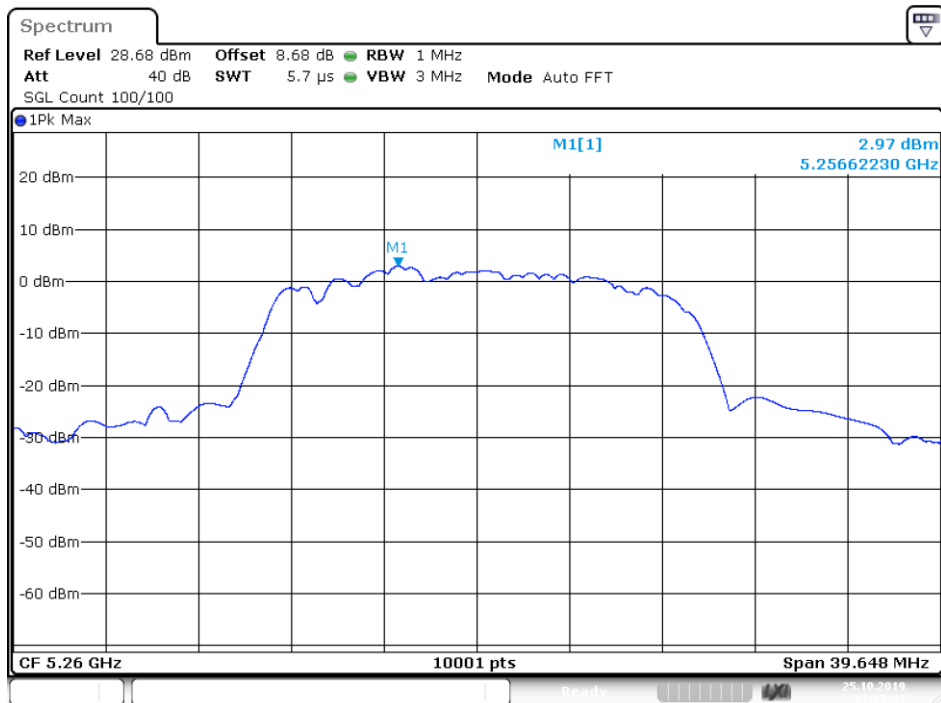
Date: 25.OCT.2019 11:46:48

PSD NVLT 802.11a 5320MHz Ant1



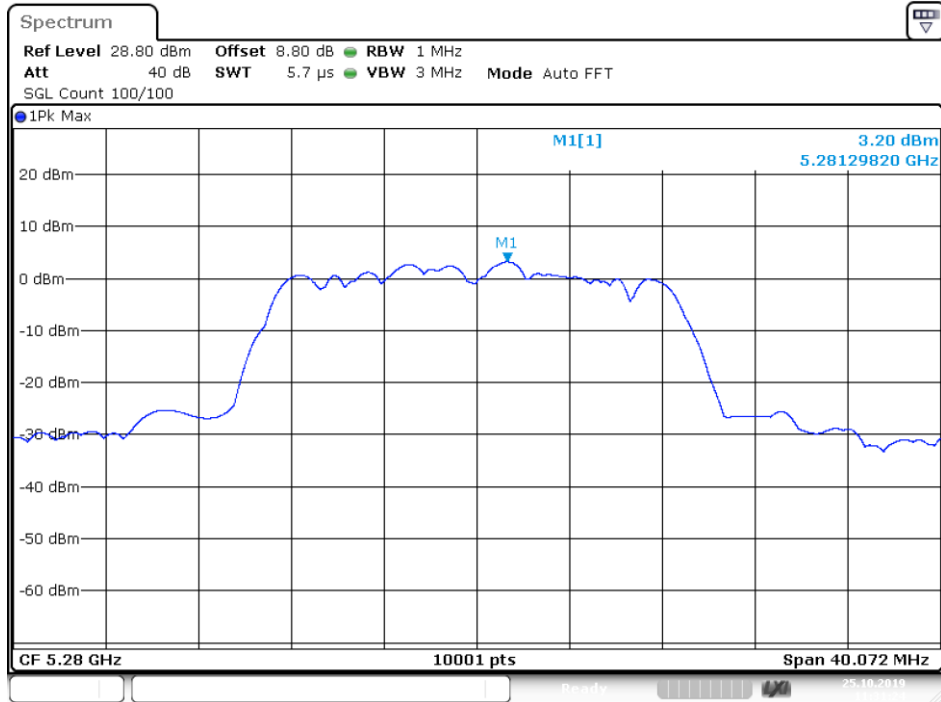
Date: 25.OCT.2019 11:58:03

PSD NVLT 802.11ac20 5260MHz Ant1



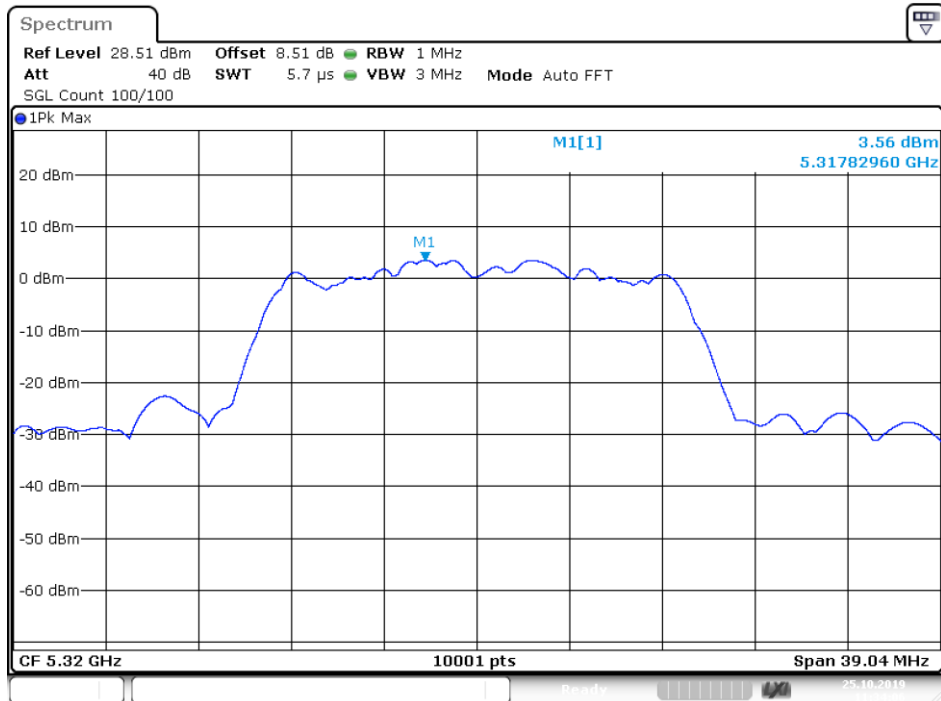
Date: 25.OCT.2019 11:27:43

PSD NVLT 802.11ac20 5280MHz Ant1



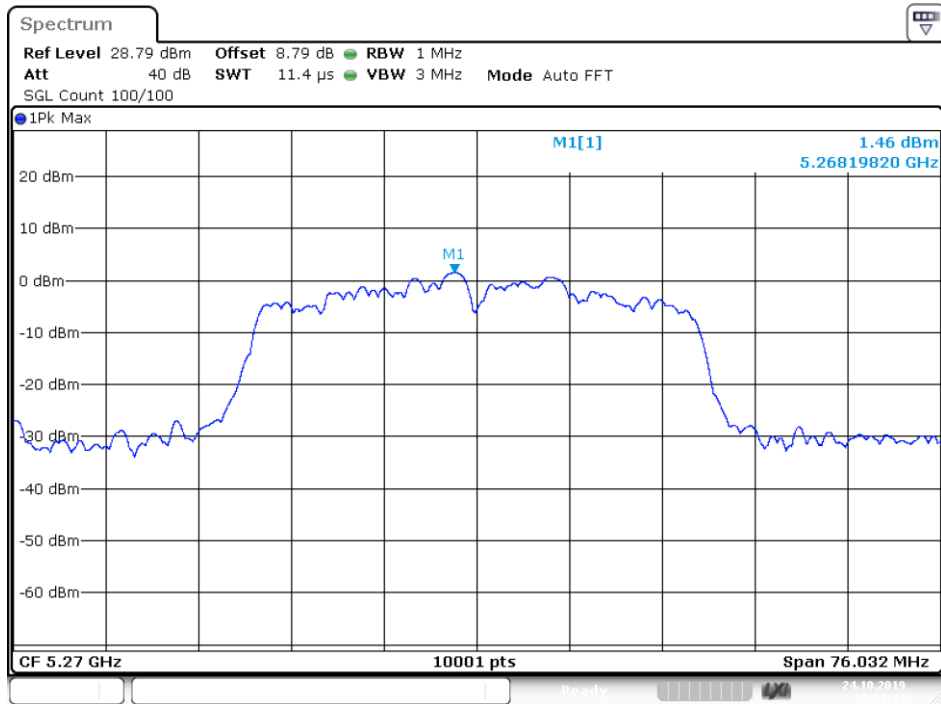
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PSD NVLT 802.11ac20 5320MHz Ant1



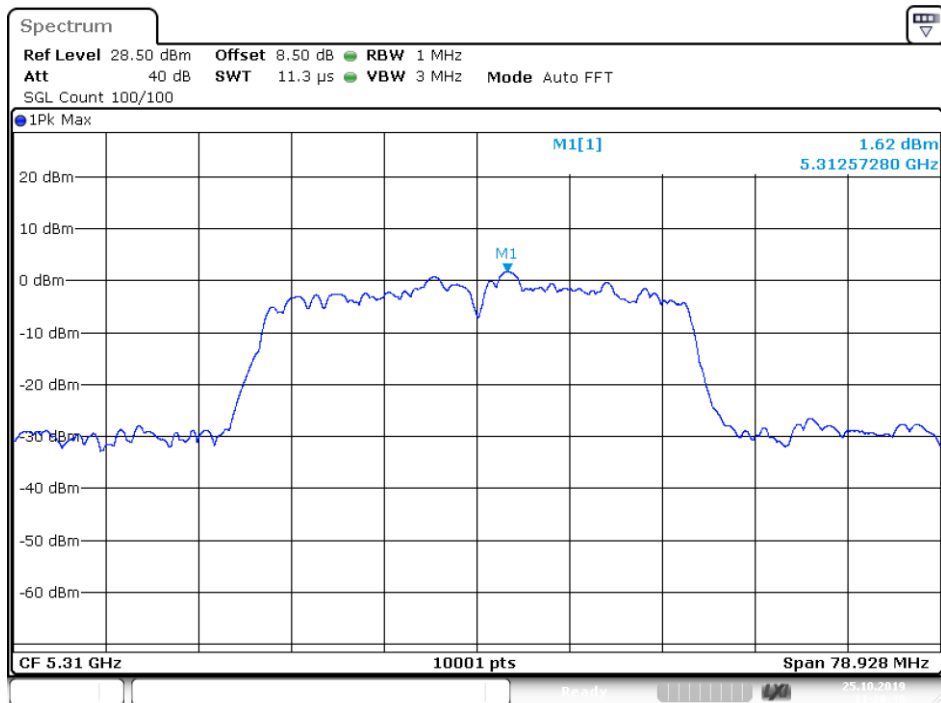
Date: 25.OCT.2019 11:34:05

PSD NVLT 802.11ac40 5270MHz Ant1



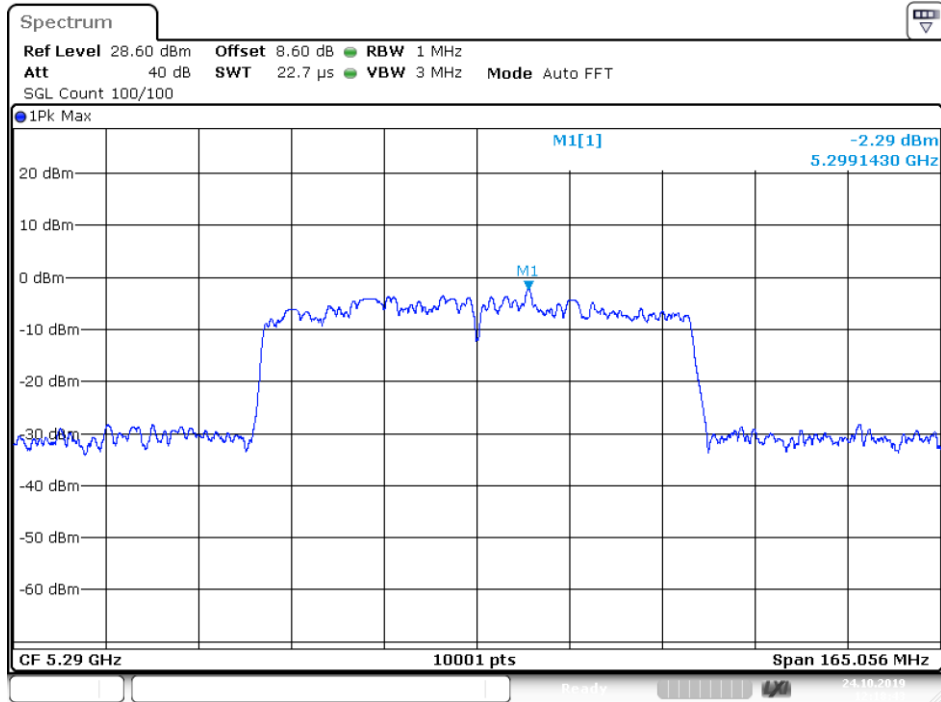
Date: 24.OCT.2019 12:28:15

PSD NVLT 802.11ac40 5310MHz Ant1



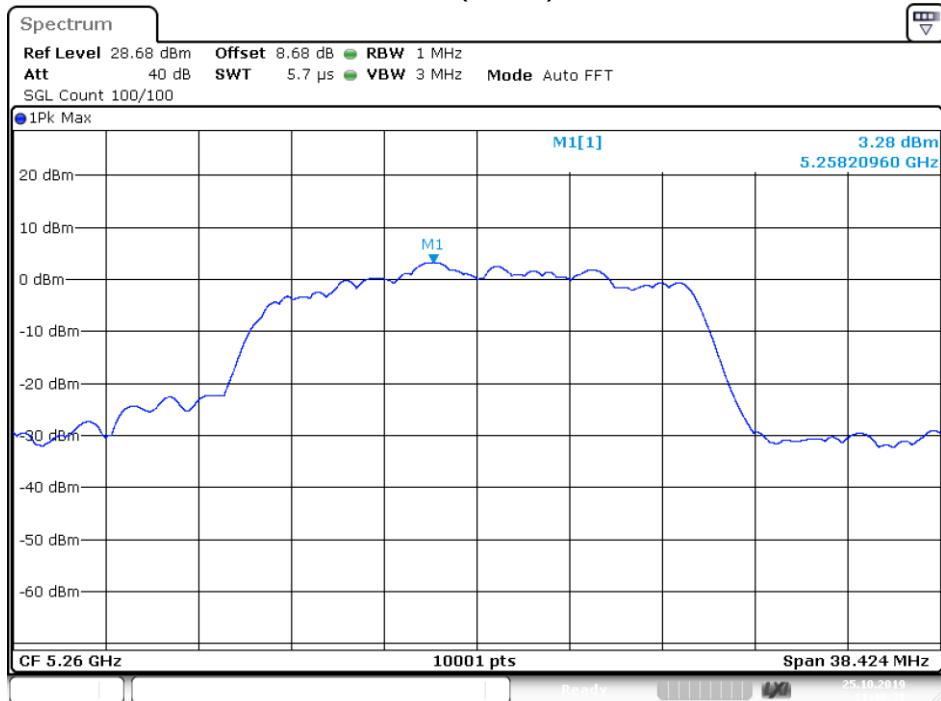
Date: 25.OCT.2019 11:20:38

PSD NVLT 802.11ac80 5290MHz Ant1



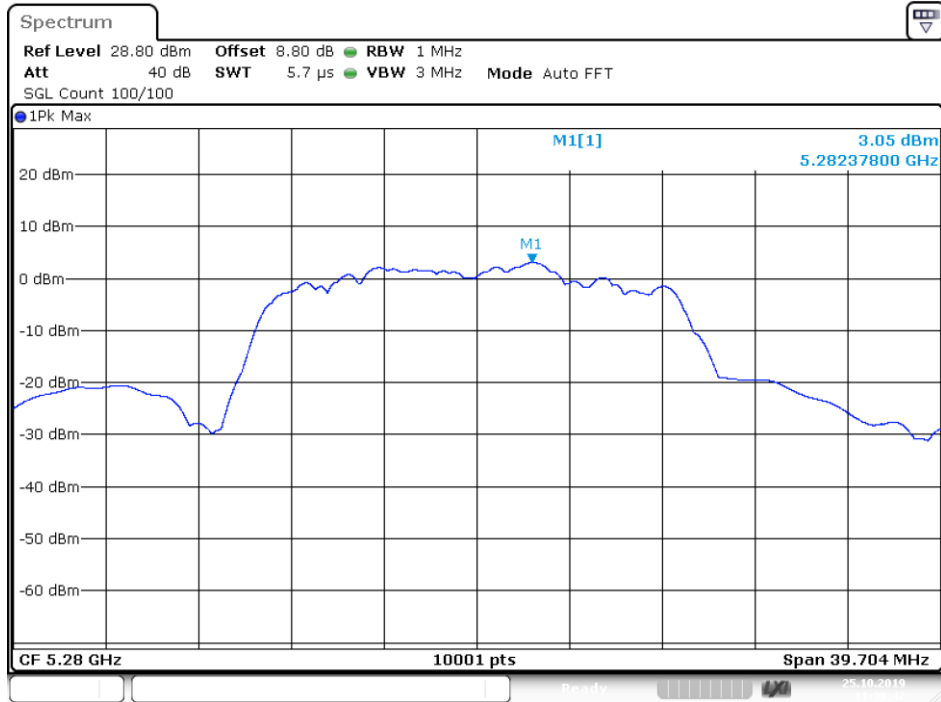
Date: 24.OCT.2019 12:18:42

PSD NVLT 802.11n(HT20) 5260MHz Ant1



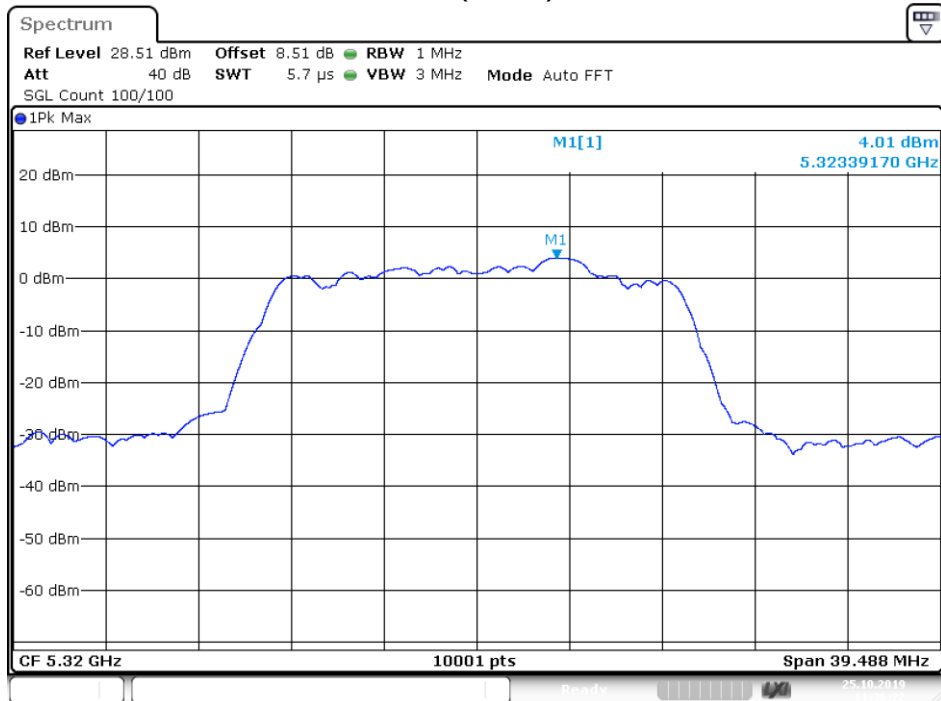
Date: 25.OCT.2019 11:40:38

PSD NVLT 802.11n(HT20) 5280MHz Ant1



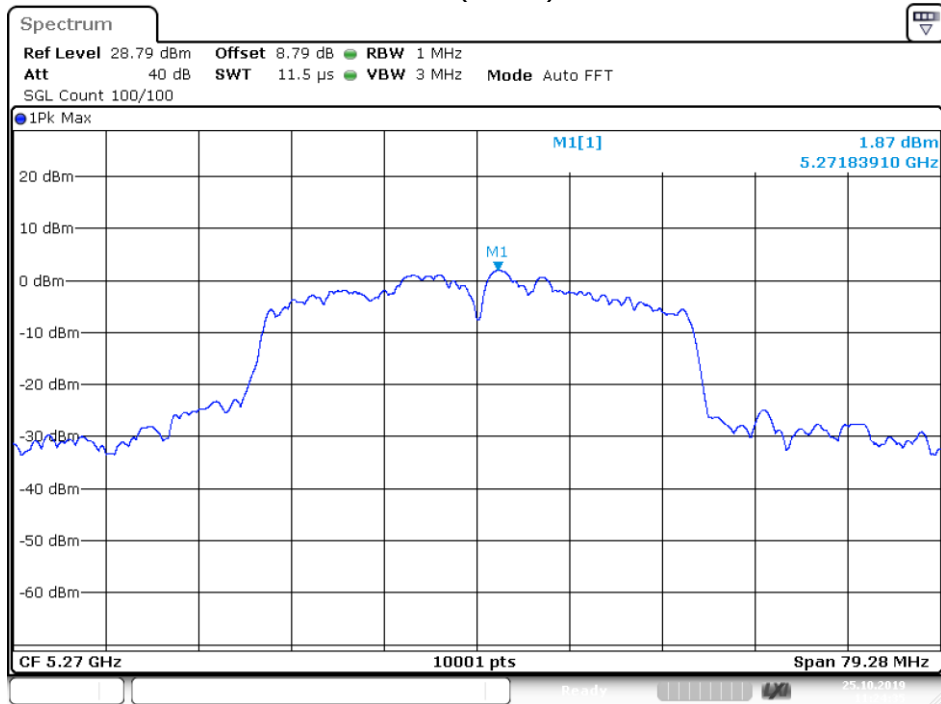
Date: 25.OCT.2019 11:38:42

PSD NVLT 802.11n(HT20) 5320MHz Ant1



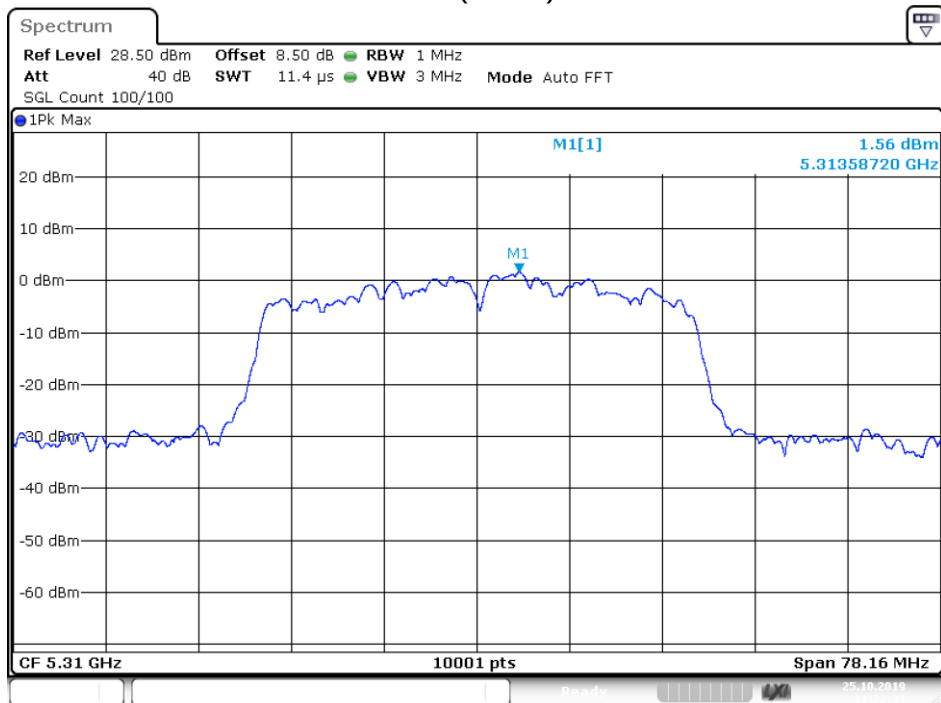
Date: 25.OCT.2019 11:36:22

PSD NVLT 802.11n(HT40) 5270MHz Ant1



Date: 25.OCT.2019 11:24:35

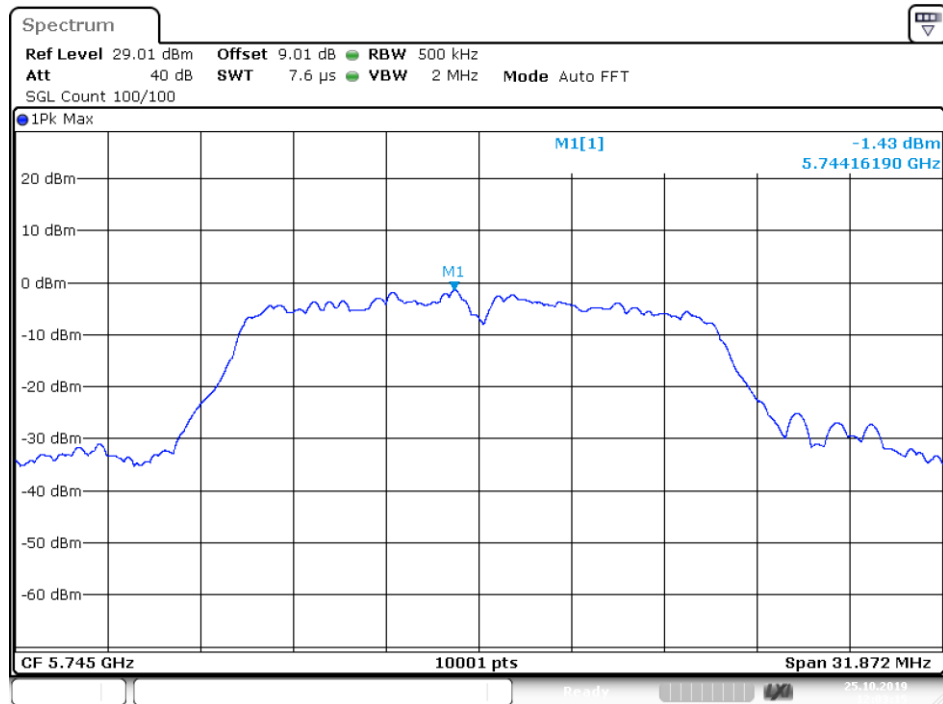
PSD NVLT 802.11n(HT40) 5310MHz Ant1



Date: 25.OCT.2019 11:22:32

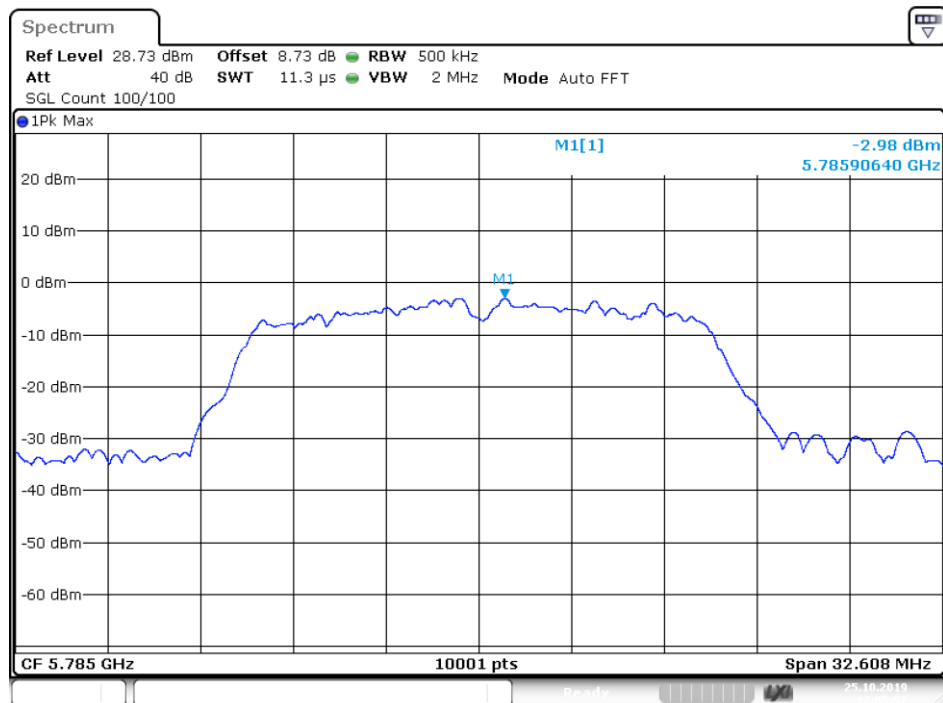
U-NII-3						
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	Ant 1	-1.425	30	Pass
NVNT	802.11a	5785	Ant 1	-2.978	30	Pass
NVNT	802.11a	5825	Ant 1	-2.714	30	Pass
NVNT	802.11ac20	5745	Ant 1	-2.309	30	Pass
NVNT	802.11ac20	5785	Ant 1	-3.268	30	Pass
NVNT	802.11ac20	5825	Ant 1	-3.191	30	Pass
NVNT	802.11ac40	5755	Ant 1	-5.574	30	Pass
NVNT	802.11ac40	5795	Ant 1	-3.974	30	Pass
NVNT	802.11ac80	5775	Ant 1	-8.559	30	Pass
NVNT	802.11n(HT20)	5745	Ant 1	-2.135	30	Pass
NVNT	802.11n(HT20)	5785	Ant 1	-3.281	30	Pass
NVNT	802.11n(HT20)	5825	Ant 1	-2.349	30	Pass
NVNT	802.11n(HT40)	5755	Ant 1	-5.091	30	Pass
NVNT	802.11n(HT40)	5795	Ant 1	-5.518	30	Pass

PSD NVNT 802.11a 5745MHz Ant1



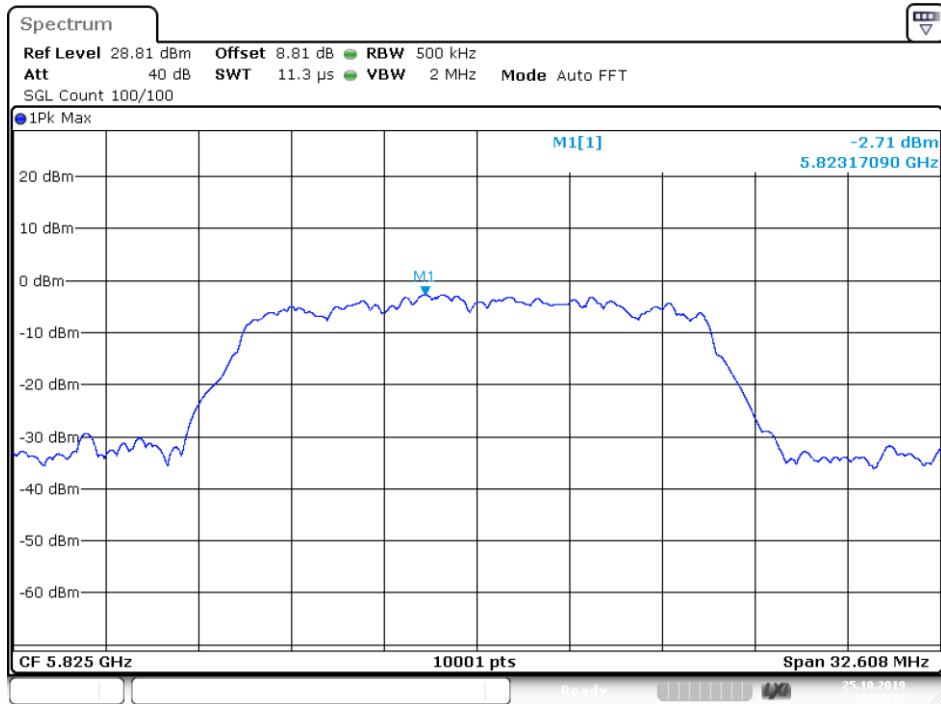
Date: 25.OCT.2019 12:03:15

PSD NVNT 802.11a 5785MHz Ant1



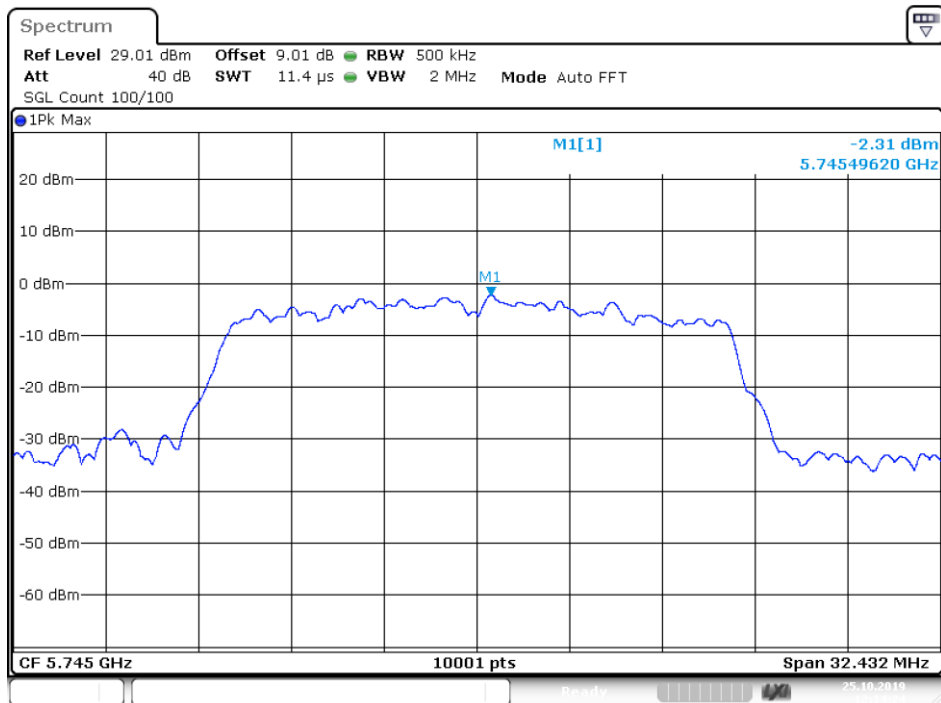
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PSD NVNT 802.11a 5825MHz Ant1



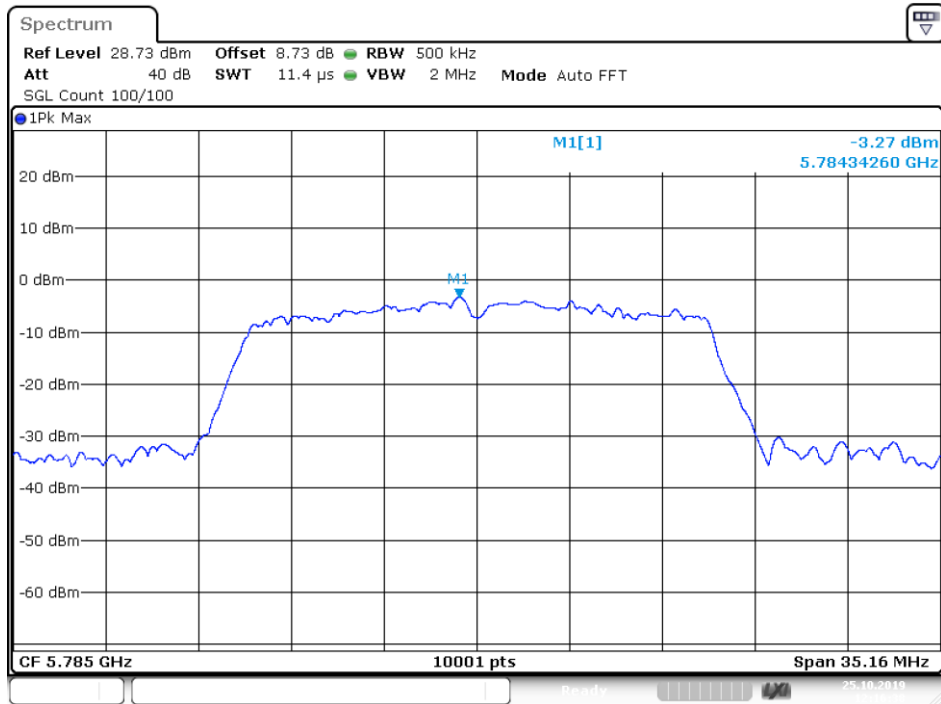
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PSD NVNT 802.11ac20 5745MHz Ant1



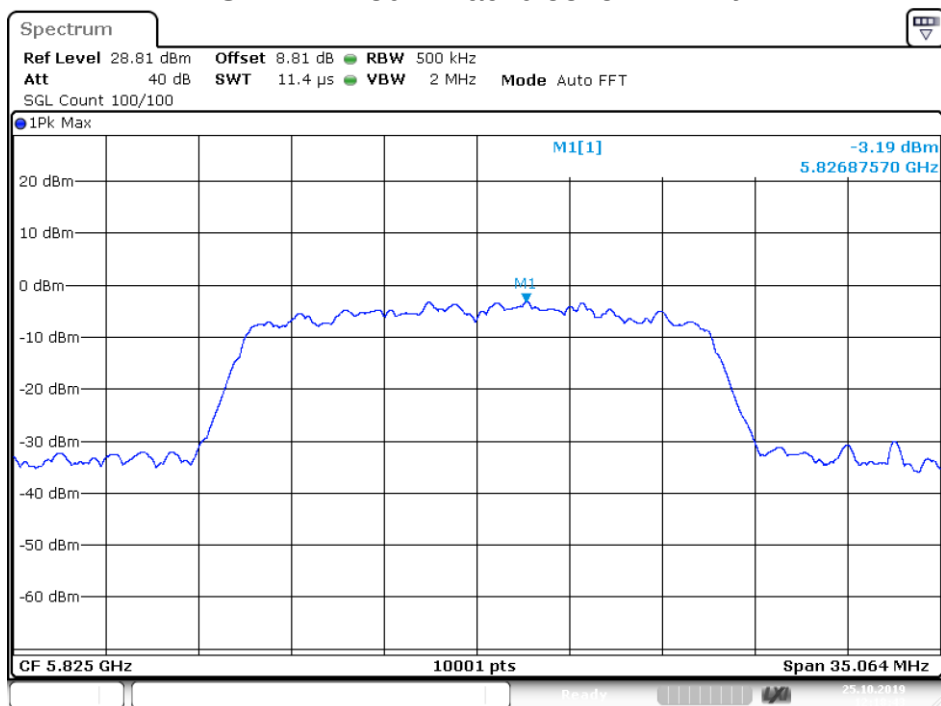
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PSD NVNT 802.11ac20 5785MHz Ant1



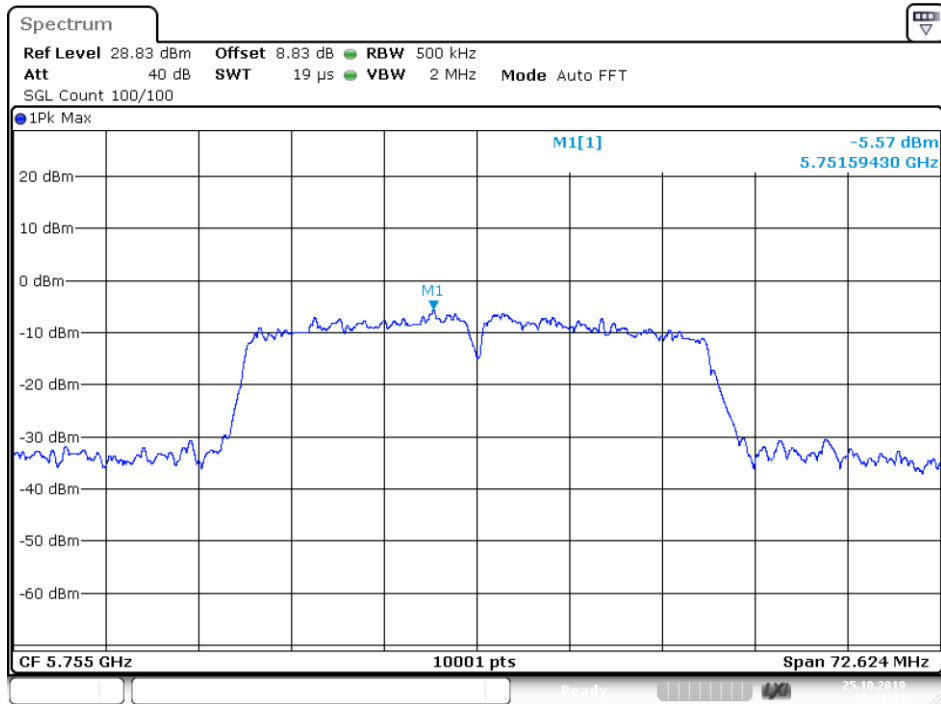
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PSD NVNT 802.11ac20 5825MHz Ant1



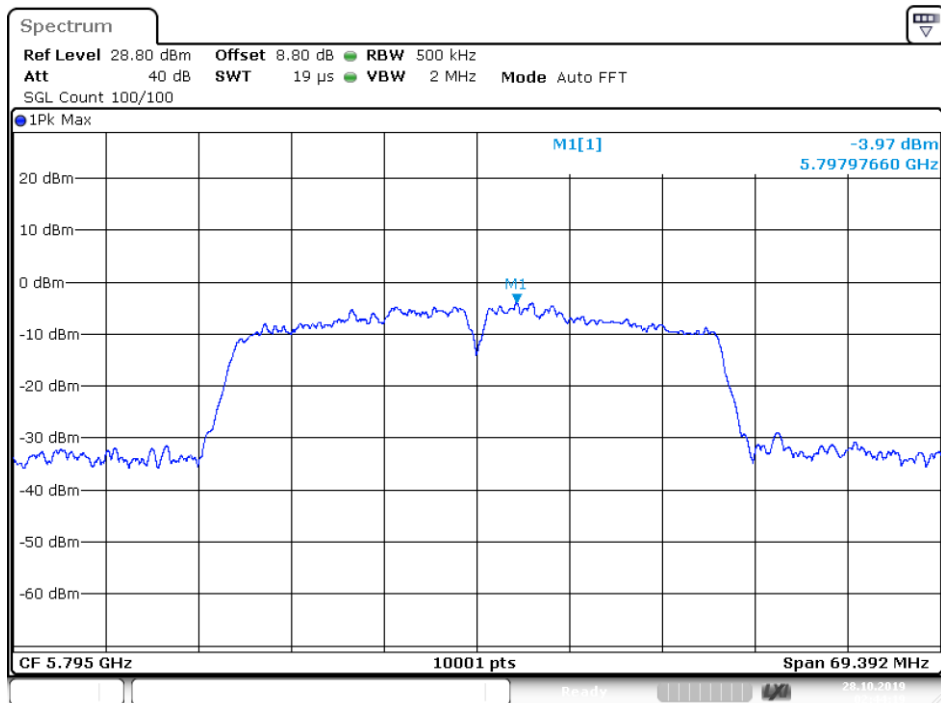
Date: 25.OCT.2019 12:18:43

PSD NVNT 802.11ac40 5755MHz Ant1



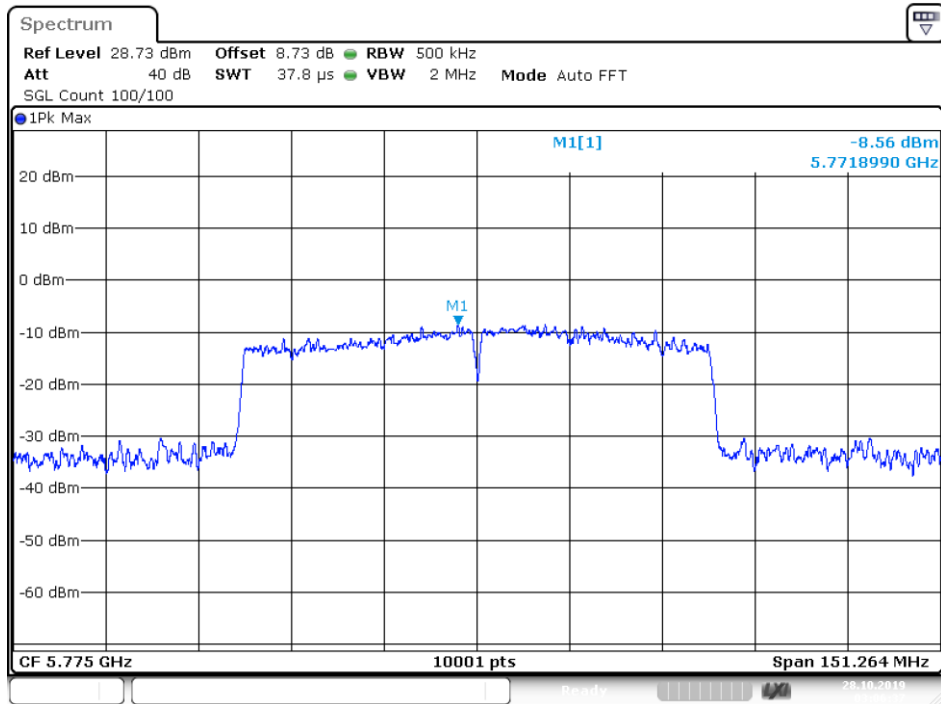
Date: 25.OCT.2019 12:44:03

PSD NVNT 802.11ac40 5795MHz Ant1



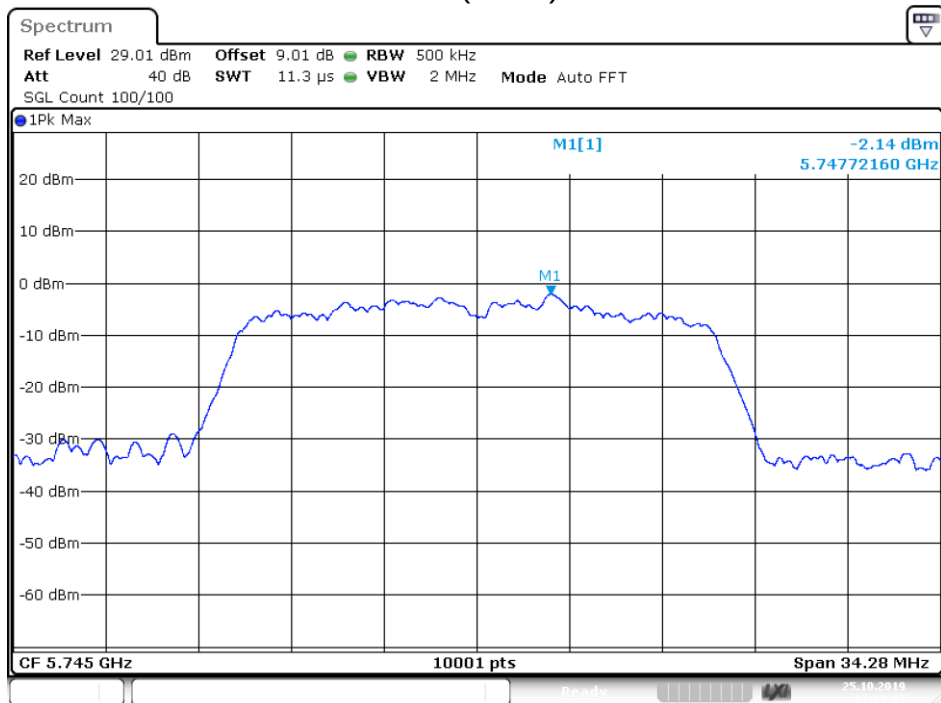
Date: 28.OCT.2019 02:44:19

PSD NVNT 802.11ac80 5775MHz Ant1



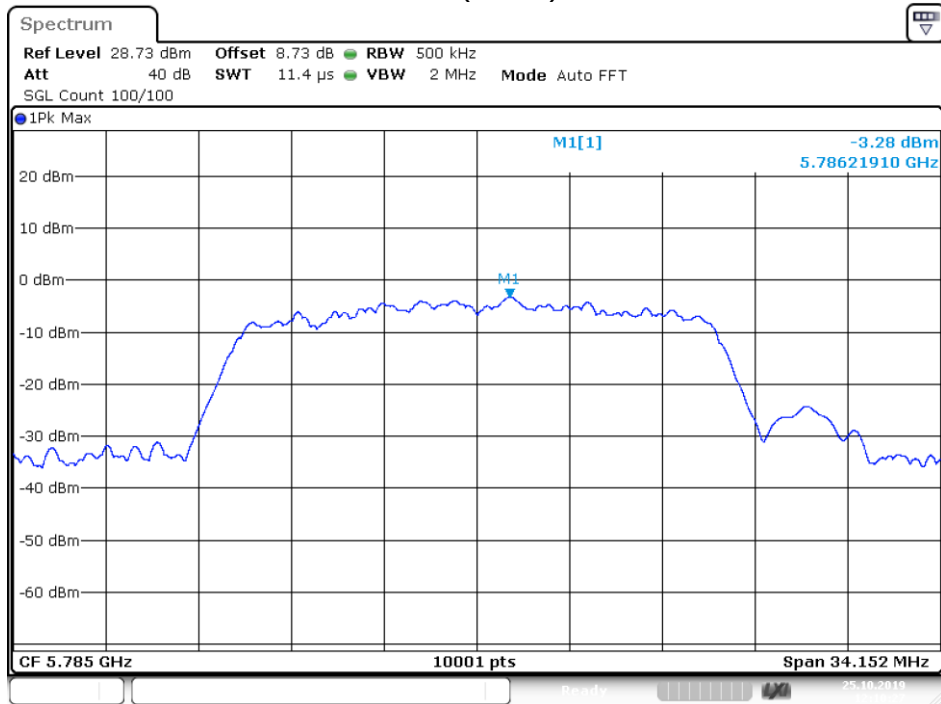
Date: 28.OCT.2019 03:06:36

PSD NVNT 802.11n(HT20) 5745MHz Ant1



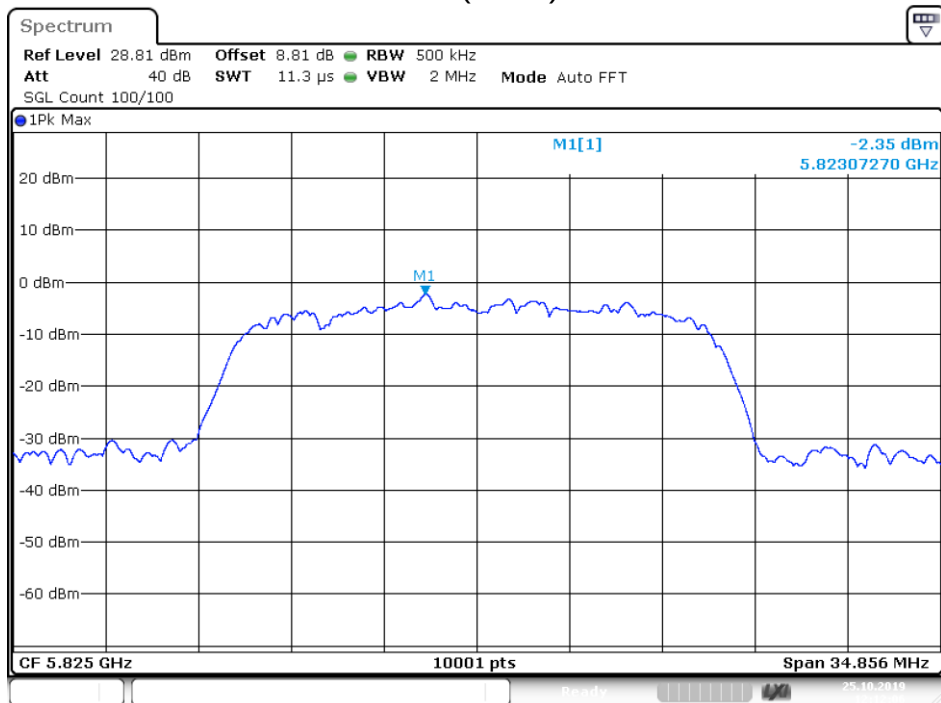
Date: 25.OCT.2019 12:09:02

PSD NVNT 802.11n(HT20) 5785MHz Ant1



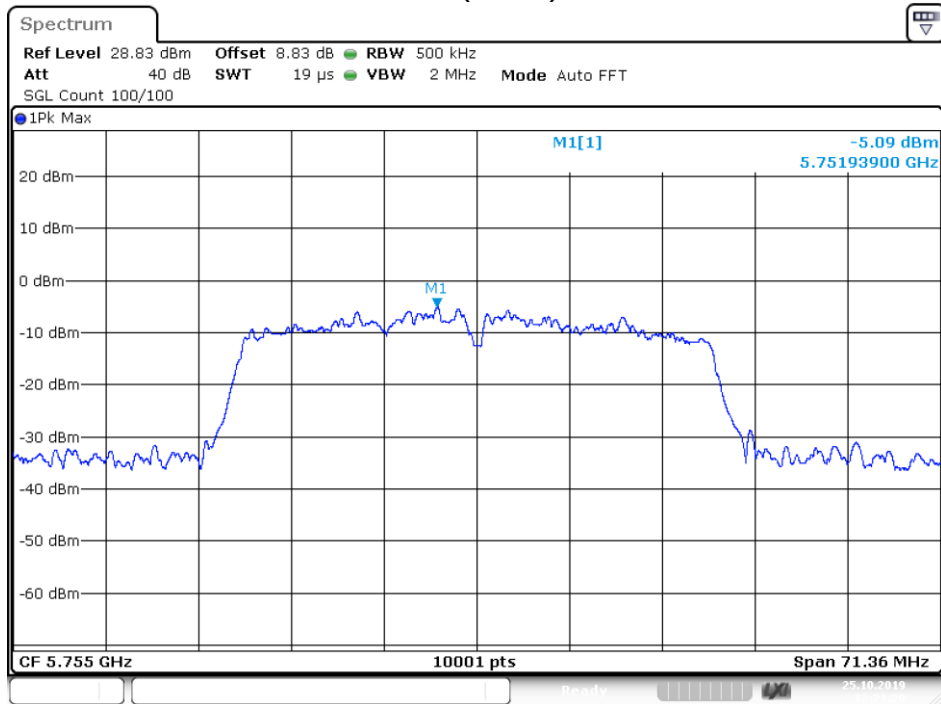
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PSD NVNT 802.11n(HT20) 5825MHz Ant1



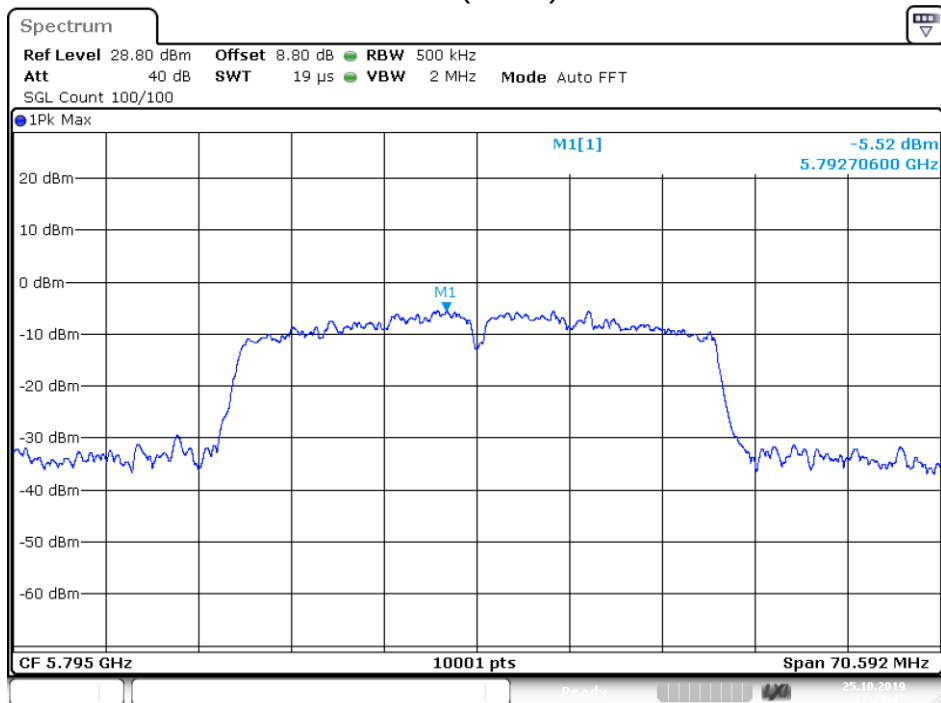
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PSD NVNT 802.11n(HT40) 5755MHz Ant1



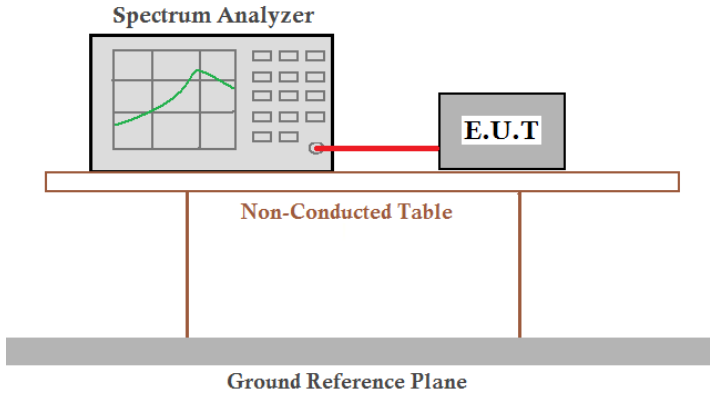
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PSD NVNT 802.11n(HT40) 5795MHz Ant1



Date: 25.OCT.2019 12:23:46

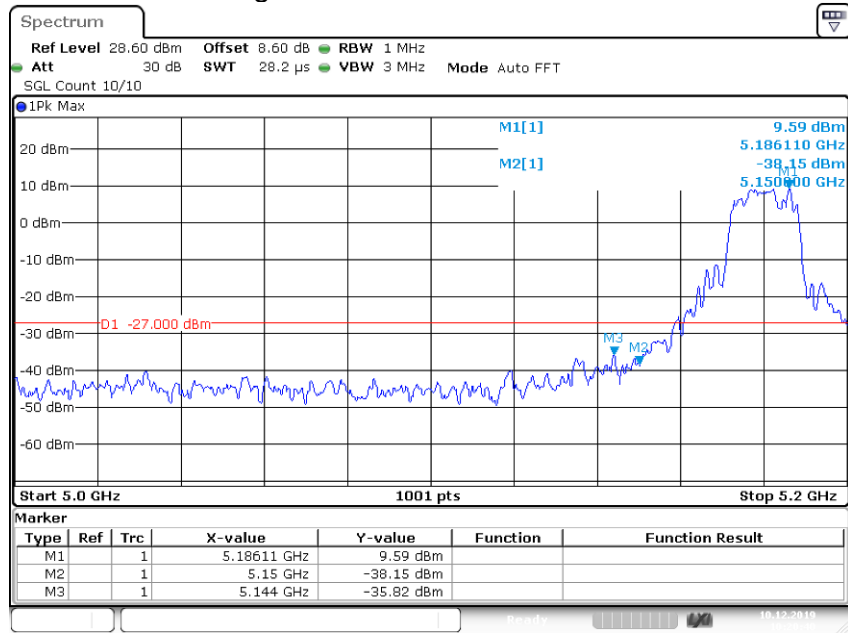
4.5 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 15.205
Test Method:	ANSI C63.10:2013
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Limit:	Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Test Procedure:	1. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level. 2. Set the RBW = 1MHz. 3. Set the VBW $\geq$ 3MHz 4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.) 5. Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$. 6. Set detector = power averaging (rms). 7. Sweep time = auto couple. 8. Trace mode = max hold. 9. Allow trace to fully stabilize.
Test results:	Pass

Measurement Data:

U-NII-1						
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	-35.82	-27	Pass
NVNT	802.11a	5240	Ant 1	-49.15	-27	Pass
NVNT	802.11ac20	5180	Ant 1	-36.56	-27	Pass
NVNT	802.11ac20	5240	Ant 1	-48.92	-27	Pass
NVNT	802.11ac40	5190	Ant 1	-33.80	-27	Pass
NVNT	802.11ac40	5230	Ant 1	-48.63	-27	Pass
NVLT	802.11ac80	5210	Ant 1	-29.15	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 1	-42.15	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 1	-49.36	-27	Pass
NVNT	802.11n(HT40)	5190	Ant 1	-27.67	-27	Pass
NVNT	802.11n(HT40)	5230	Ant 1	-49.31	-27	Pass

Band Edge NVNT 802.11a 5180MHz Ant1



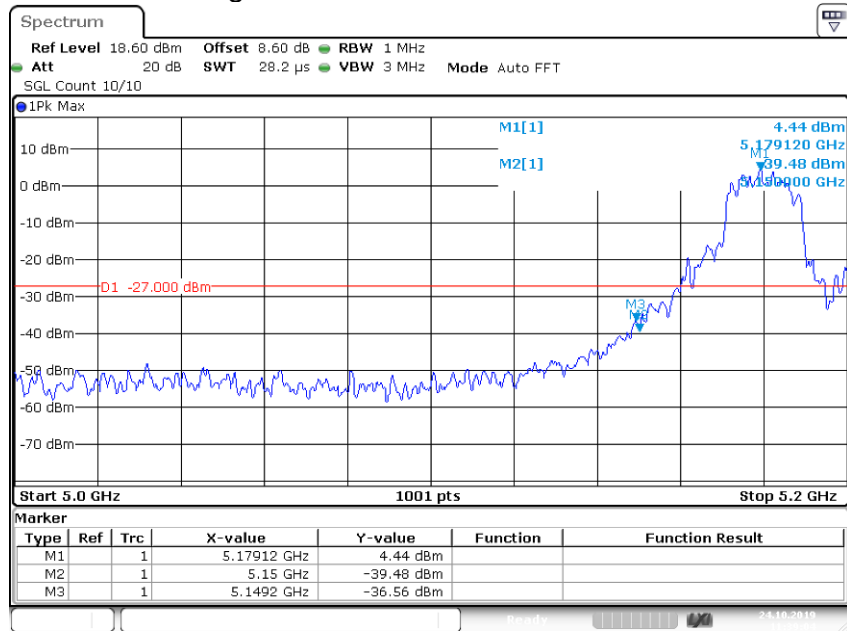
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Band Edge NVNT 802.11a 5240MHz Ant1



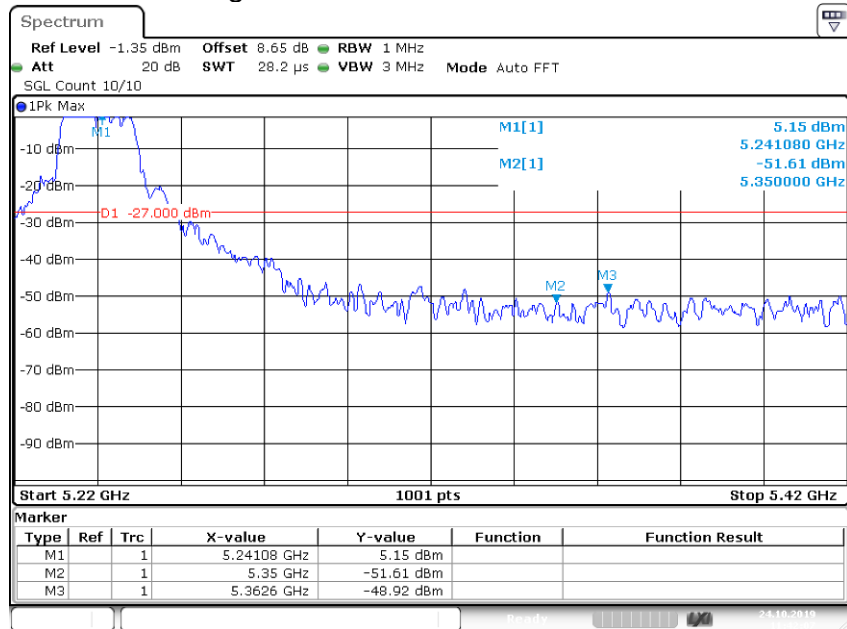
Date: 24.OCT.2019 10:08:13

Band Edge NVNT 802.11ac20 5180MHz Ant1



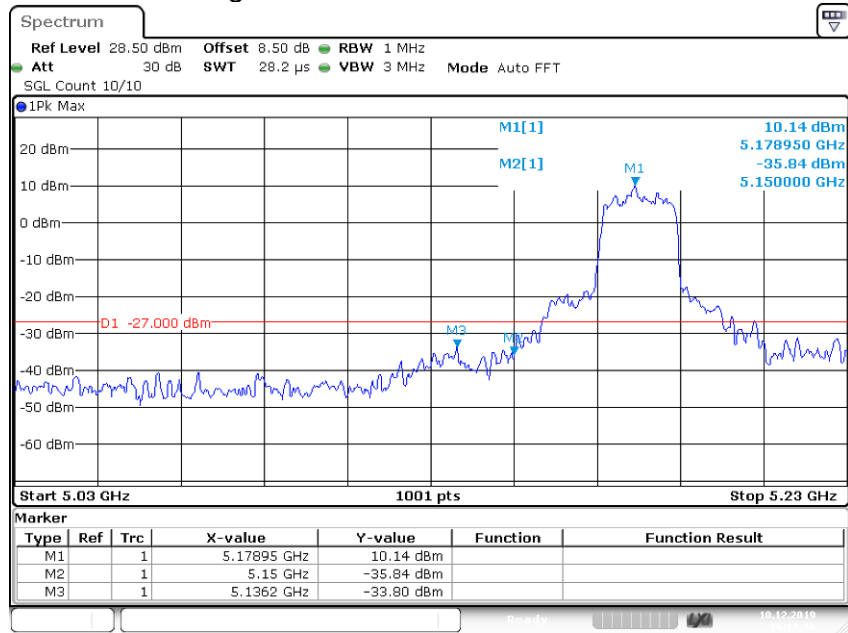
Date: 24.OCT.2019 11:39:04

Band Edge NVNT 802.11ac20 5240MHz Ant1



Date: 24.OCT.2019 11:42:06

Band Edge NVNT 802.11ac40 5190MHz Ant1



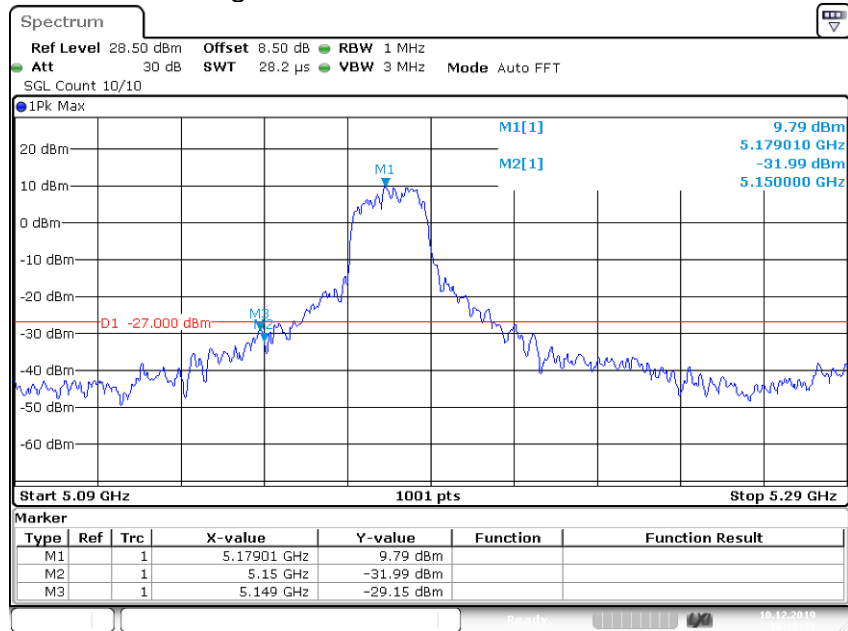
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Band Edge NVNT 802.11ac40 5230MHz Ant1



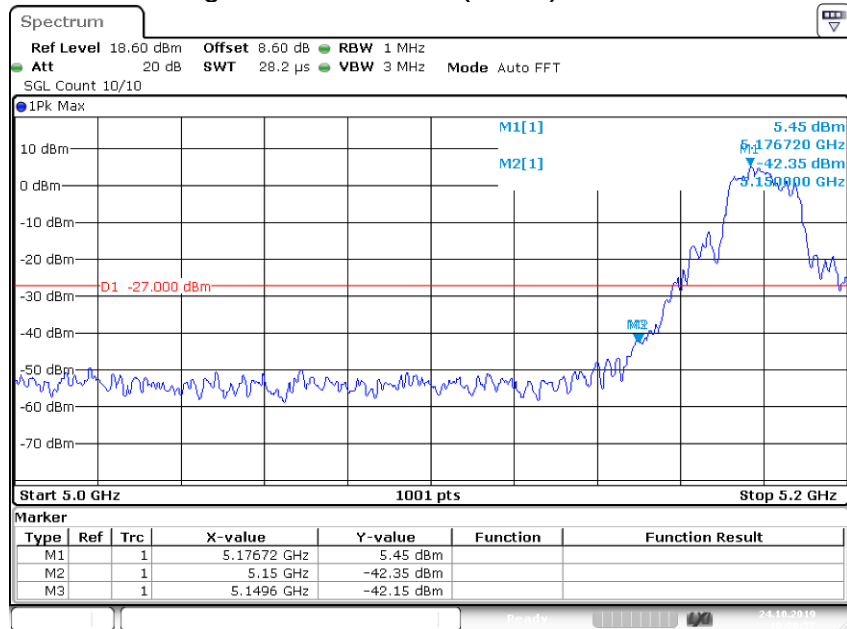
Date: 24.OCT.2019 11:58:54

Band Edge NVLT 802.11ac80 5210MHz Ant1



Date: 10.DEC.2019 10:18:23

Band Edge NVNT 802.11n(HT20) 5180MHz Ant1



Date: 24.OCT.2019 10:09:56