

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / SISO / 64-QAM / 48 Mbps / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5117.308	58.1	74.0	15.9	Complied
5150	56.4	74.0	17.6	Complied

**Results: Upper Band Edge / Peak**

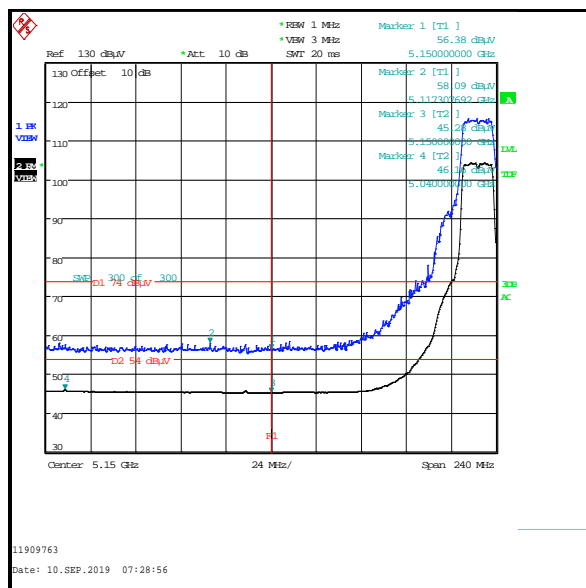
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.2	74.0	15.8	Complied
5389.487	59.2	74.0	14.8	Complied

**Results: Lower Band Edge / Average**

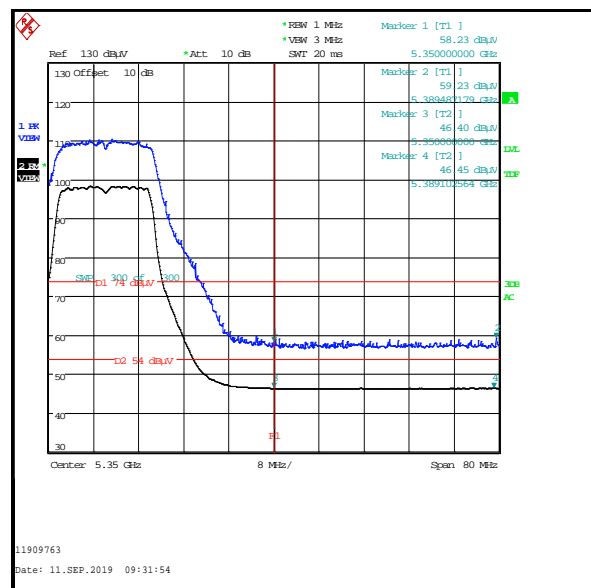
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.000	46.2	1.7	47.9	54.0	6.1	Complied
5150	45.3	1.7	47.0	54.0	7.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.4	1.5	47.9	54.0	6.1	Complied
5389.103	46.5	1.5	48.0	54.0	6.0	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / SISO / 64-QAM / 54 Mbps / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5125.385	58.5	74.0	15.5	Complied
5150	56.3	74.0	17.7	Complied

**Results: Upper Band Edge / Peak**

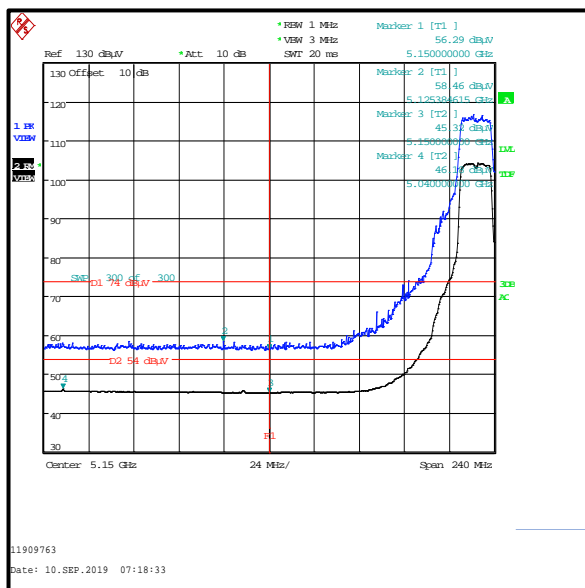
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	57.6	74.0	16.4	Complied
5383.846	58.9	74.0	15.1	Complied

**Results: Lower Band Edge / Average**

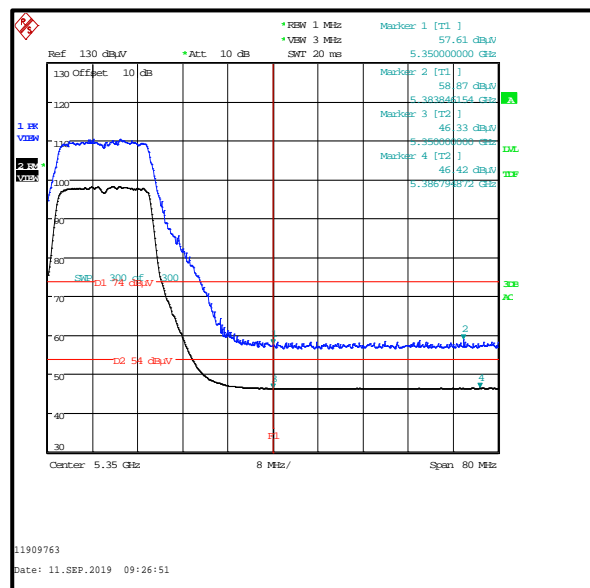
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.000	46.2	1.7	47.9	54.0	6.1	Complied
5150	45.3	1.7	47.0	54.0	7.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.3	1.5	47.8	54.0	6.2	Complied
5386.795	46.4	1.5	47.9	54.0	6.1	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / SISO / QPSK / MCS2 / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5086.538	58.6	74.0	15.4	Complied
5150	56.5	74.0	17.5	Complied

**Results: Upper Band Edge / Peak**

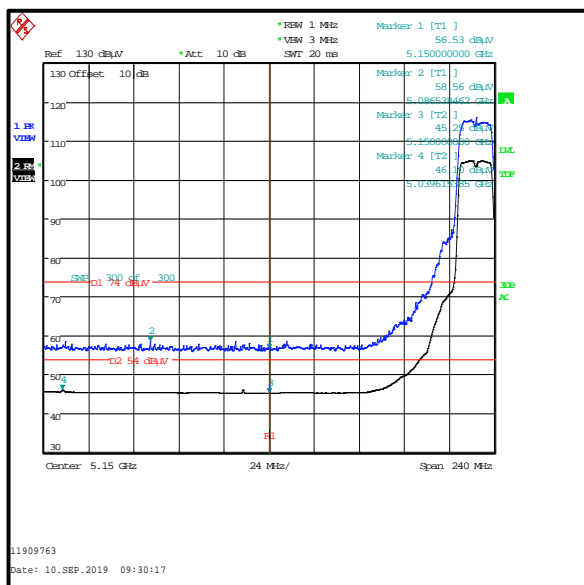
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	57.9	74.0	16.1	Complied
5372.308	59.4	74.0	14.6	Complied

**Results: Lower Band Edge / Average**

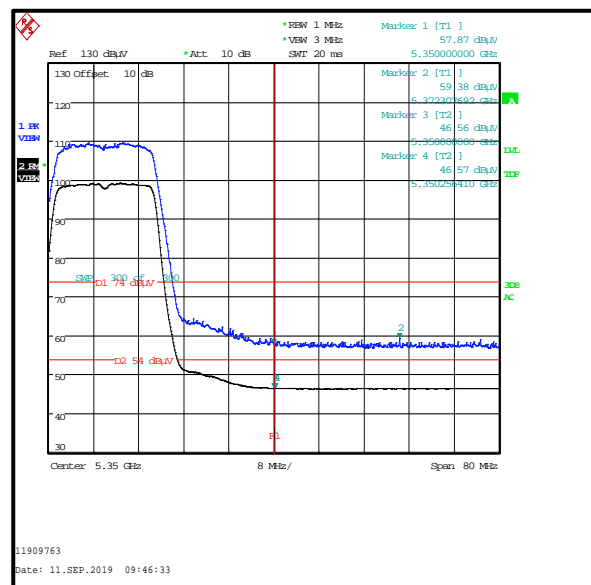
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5039.615	46.1	1.5	47.6	54.0	6.4	Complied
5150	45.3	1.5	46.8	54.0	7.2	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.6	1.8	48.4	54.0	5.6	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / SISO / 64-QAM / MCS6 / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5088.846	58.1	74.0	15.9	Complied
5150	56.5	74.0	17.5	Complied

**Results: Upper Band Edge / Peak**

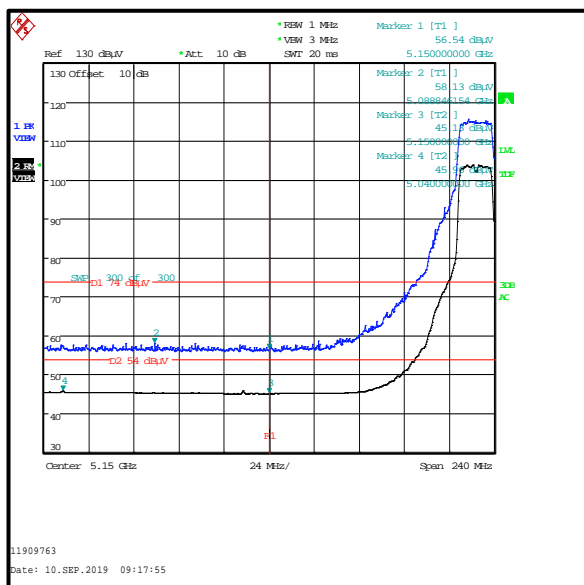
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	65.3	74.0	8.7	Complied
5350.641	65.4	74.0	8.6	Complied

**Results: Lower Band Edge / Average**

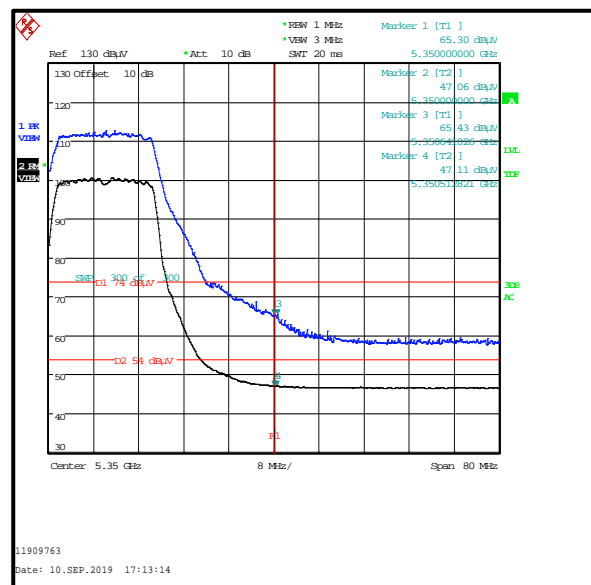
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5040.000	45.1	1.4	46.5	54.0	7.5	Complied
5150	46.0	1.4	47.4	54.0	6.6	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	47.1	1.3	48.4	54.0	5.6	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / SISO / 16-QAM / MCS3 / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5097.051	58.2	74.0	15.8	Complied
5150	55.8	74.0	18.2	Complied

**Results: Upper Band Edge / Peak**

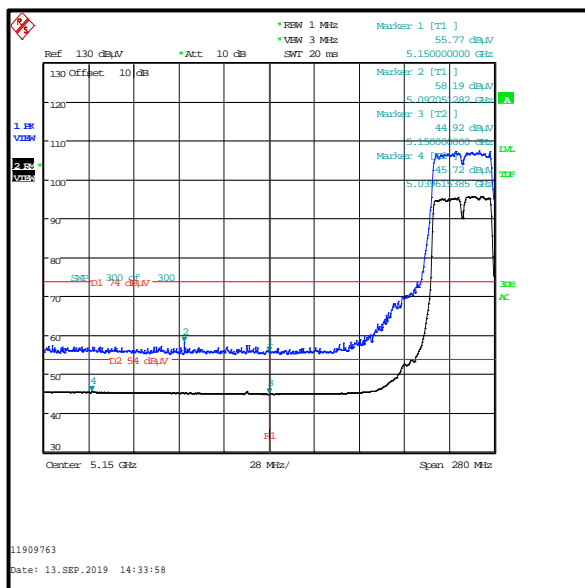
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.6	74.0	14.4	Complied
5352.692	60.6	74.0	13.4	Complied

**Results: Lower Band Edge / Average**

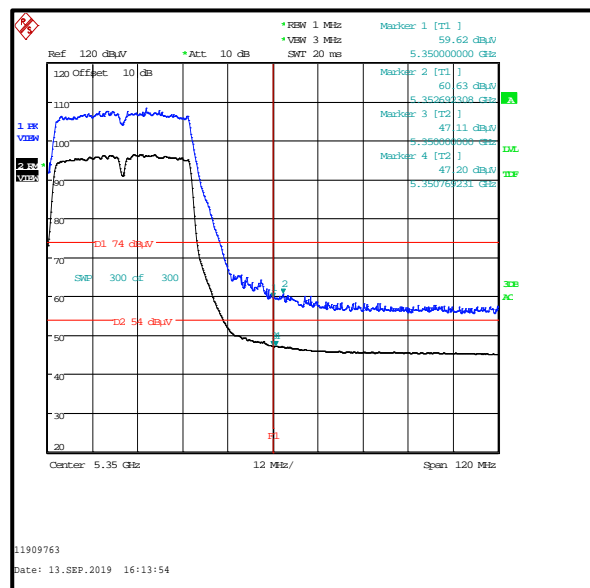
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5039.615	44.9	2.1	47.0	54.0	7.0	Complied
5150	45.7	2.1	47.8	54.0	6.2	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.1	2.2	49.3	54.0	4.7	Complied
5350.769	47.2	2.2	49.4	54.0	4.6	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / SISO / 16-QAM / MCS4 / Port 1**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5061.154	57.6	74.0	16.4	Complied
5150	56.0	74.0	18.0	Complied

**Results: Upper Band Edge / Peak**

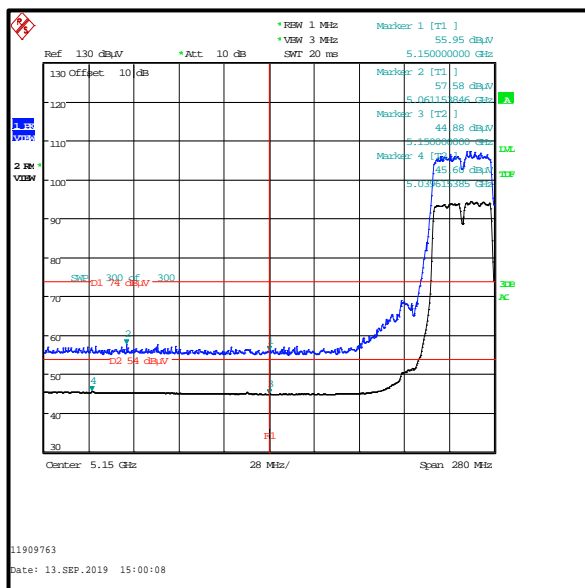
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	59.6	74.0	14.4	Complied
5350.577	61.0	74.0	13.0	Complied

**Results: Lower Band Edge / Average**

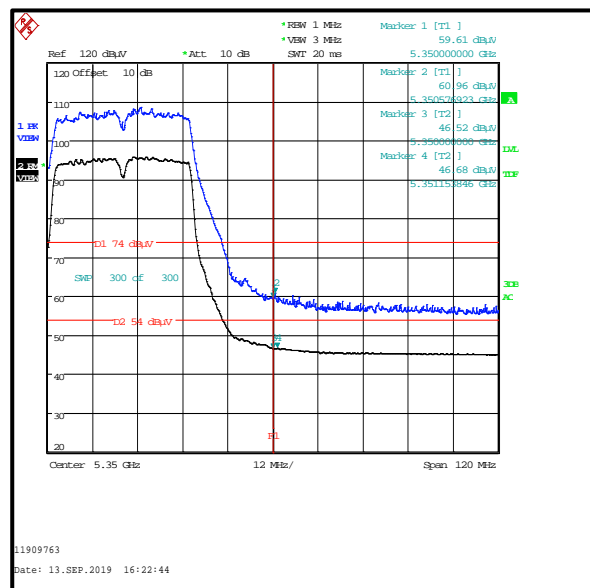
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5039.615	45.6	2.1	47.7	54.0	6.3	Complied
5150	44.9	2.1	47.0	54.0	7.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	46.5	2.1	48.6	54.0	5.4	Complied
5351.154	46.7	2.1	48.8	54.0	5.2	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

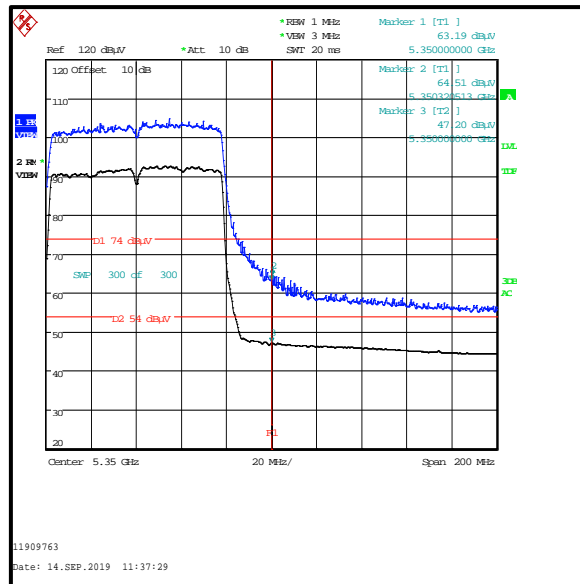
**Results: 802.11ac / 80 MHz / SISO / QPSK / MCS1x1 / Port 1**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	63.2	74.0	10.8	Complied
5350.321	64.5	74.0	9.5	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.2	1.5	48.7	54.0	5.3	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

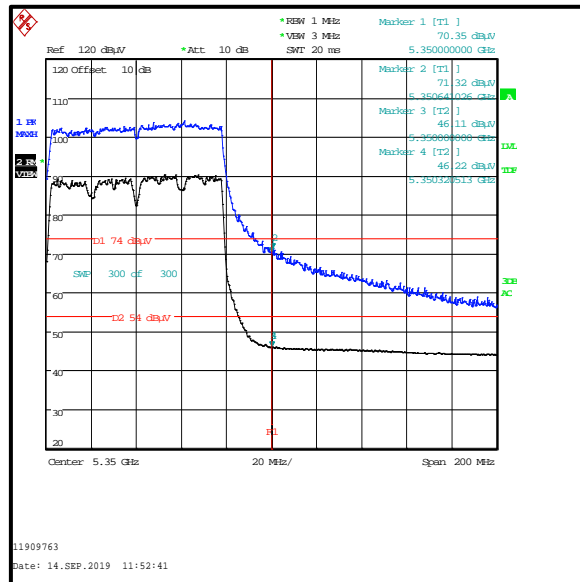
**Results: 802.11ac / 80 MHz / SISO / 256-QAM / MCS8x1 / Port 1**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	70.4	74.0	3.6	Complied
5350.641	71.3	74.0	2.7	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.1	4.5	50.6	54.0	3.4	Complied
5350.321	46.2	4.5	50.7	54.0	3.3	Complied



**Upper Band Edge**



**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / MIMO / 2Tx CDD / 64-QAM / 48 Mbps / Port 1 & 2**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5135.769	58.4	74.0	15.6	Complied
5150	57.0	74.0	17.0	Complied

**Results: Upper Band Edge / Peak**

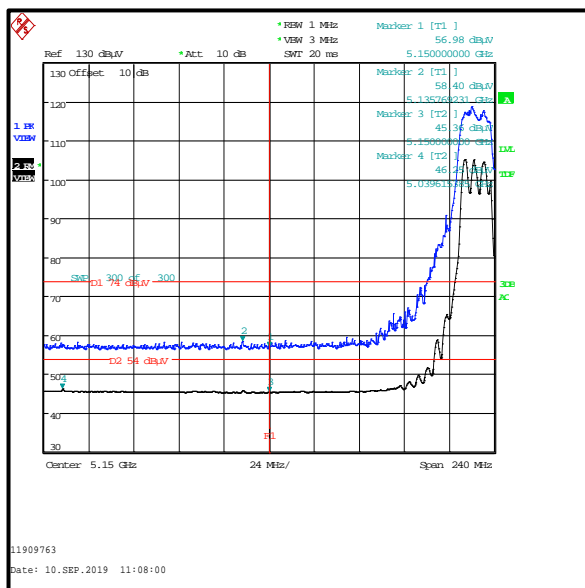
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	57.3	74.0	16.7	Complied
5387.949	59.7	74.0	14.3	Complied

**Results: Lower Band Edge / Average**

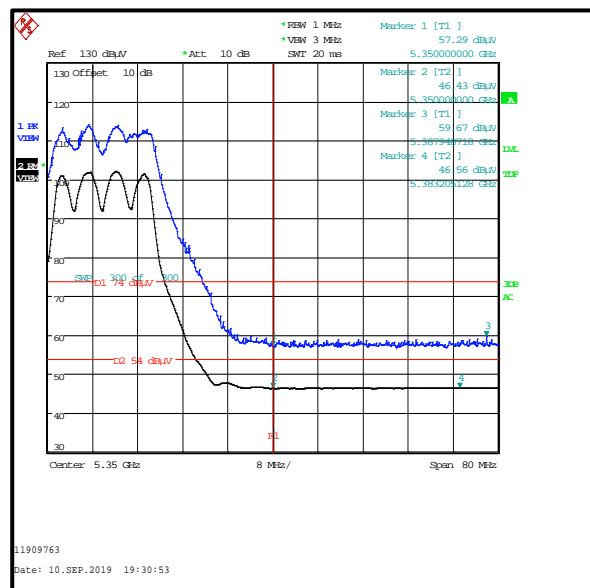
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5039.615	46.3	1.4	47.7	54.0	6.3	Complied
5150	45.4	1.4	46.8	54.0	7.2	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.4	1.3	47.7	54.0	6.3	Complied
5383.205	46.6	1.3	47.9	54.0	6.1	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / MIMO / 2Tx CDD / 64-QAM / 54 Mbps / Port 1 & 2**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.385	58.1	74.0	15.9	Complied
5150	57.6	74.0	16.4	Complied

**Results: Upper Band Edge / Peak**

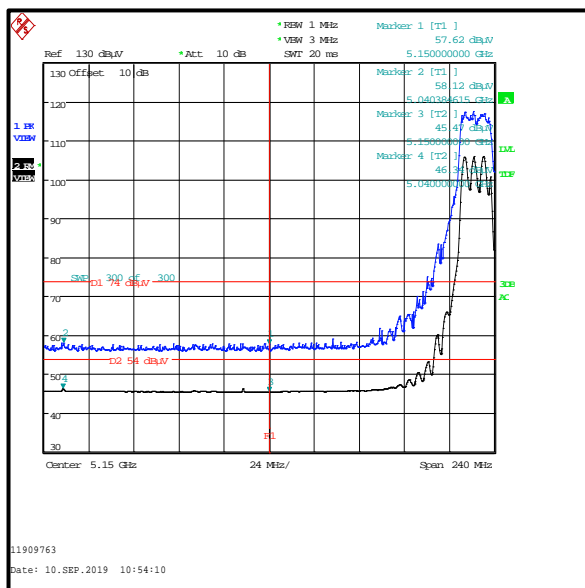
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	57.8	74.0	16.2	Complied
5381.667	59.4	74.0	14.6	Complied

**Results: Lower Band Edge / Average**

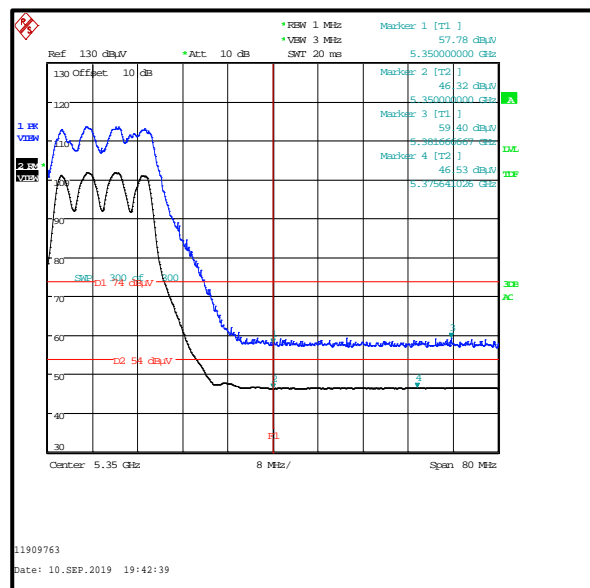
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.000	46.3	1.6	47.9	54.0	6.1	Complied
5150	45.5	1.6	47.1	54.0	6.9	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.3	1.5	47.8	54.0	6.2	Complied
5375.641	46.5	1.5	48.0	54.0	6.0	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Port 1 & 2**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5115.000	59.4	74.0	14.6	Complied
5150	57.1	74.0	16.9	Complied

**Results: Upper Band Edge / Peak**

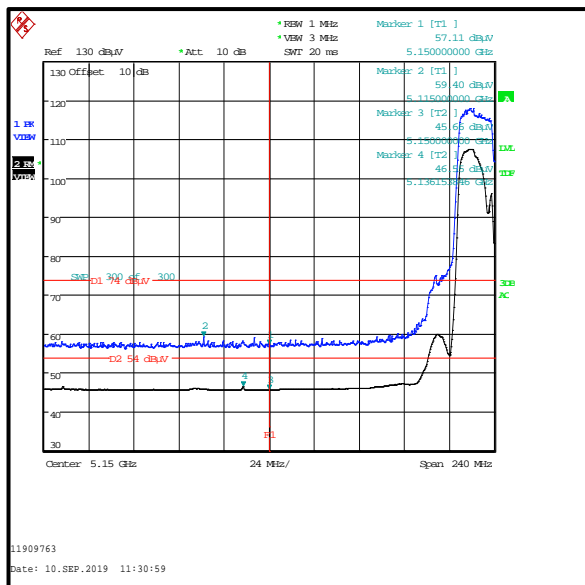
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	57.9	74.0	16.1	Complied

**Results: Lower Band Edge / Average**

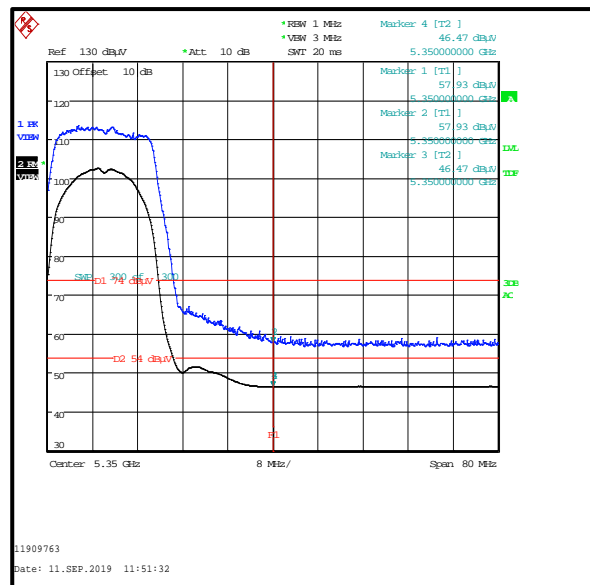
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5136.154	46.6	1.3	47.9	54.0	6.1	Complied
5150	45.7	1.3	47.0	54.0	7.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	46.5	1.6	48.1	54.0	5.9	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / 16-QAM / MCS4 / Port 1 & 2**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5113.077	58.2	74.0	15.8	Complied
5150	56.5	74.0	17.5	Complied

**Results: Upper Band Edge / Peak**

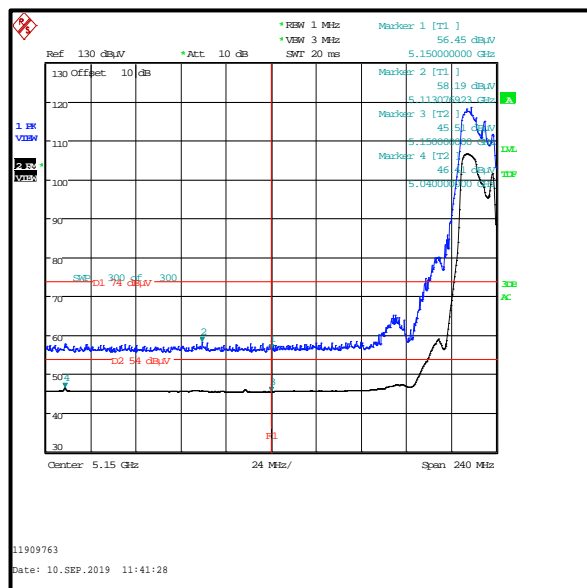
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.2	74.0	14.8	Complied
5378.462	59.7	74.0	14.3	Complied

**Results: Lower Band Edge / Average**

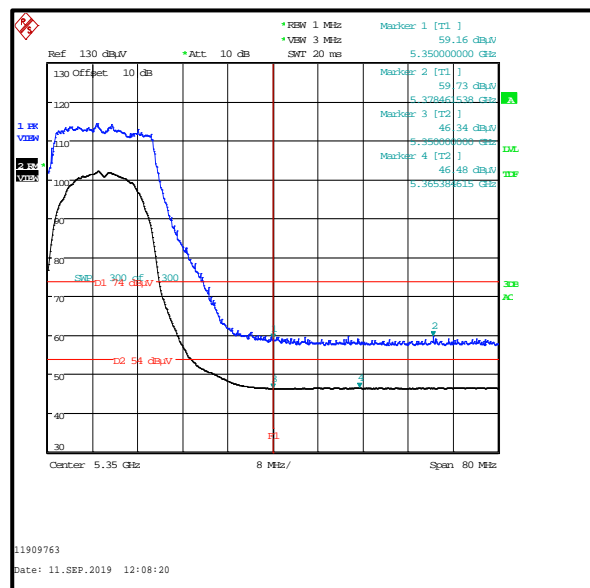
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.000	46.4	1.5	47.9	54.0	6.1	Complied
5150	45.5	1.5	47.0	54.0	7.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.3	1.4	47.7	54.0	6.3	Complied
5365.385	46.5	1.4	47.9	54.0	6.1	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / 64-QAM / MCS7 / Port 1 & 2**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5112.756	58.1	74.0	15.9	Complied
5150	55.5	74.0	18.5	Complied

**Results: Upper Band Edge / Peak**

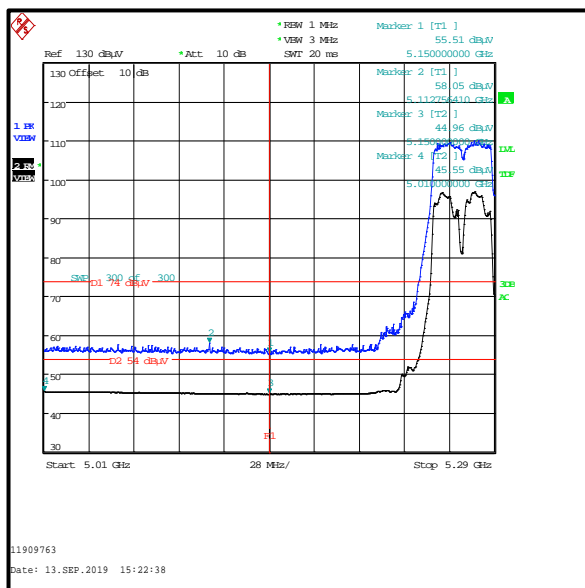
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.1	74.0	15.9	Complied
5358.269	59.8	74.0	14.2	Complied

**Results: Lower Band Edge / Average**

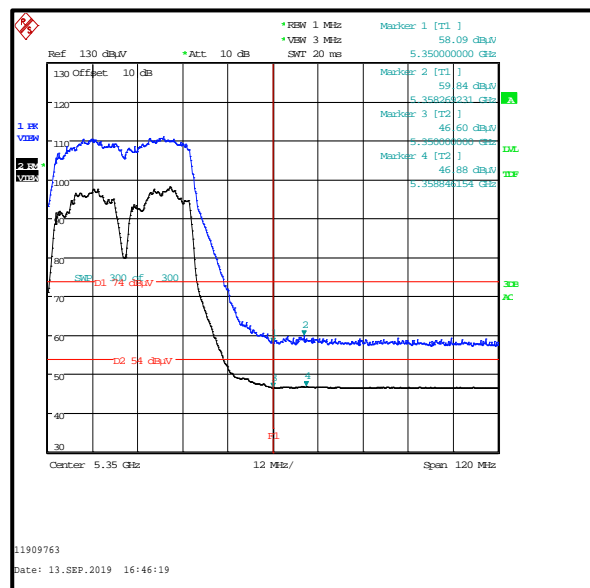
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5010.000	45.6	2.5	48.1	54.0	5.9	Complied
5150	45.0	2.5	47.5	54.0	6.5	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.6	2.2	48.8	54.0	5.2	Complied
5358.846	46.9	2.2	49.1	54.0	4.9	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

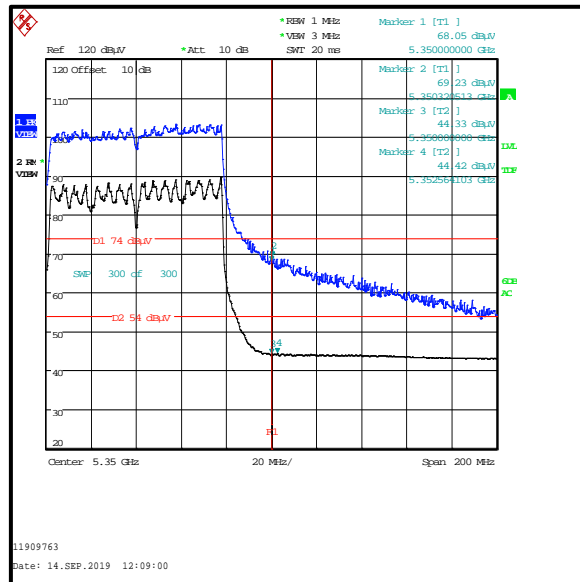
**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / 64-QAM / MCS5x1 / Port 1 & 2**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	68.1	74.0	5.9	Complied
5350.321	69.2	74.0	4.8	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	44.3	3.2	47.5	54.0	6.5	Complied
5352.564	44.4	3.2	47.6	54.0	6.4	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

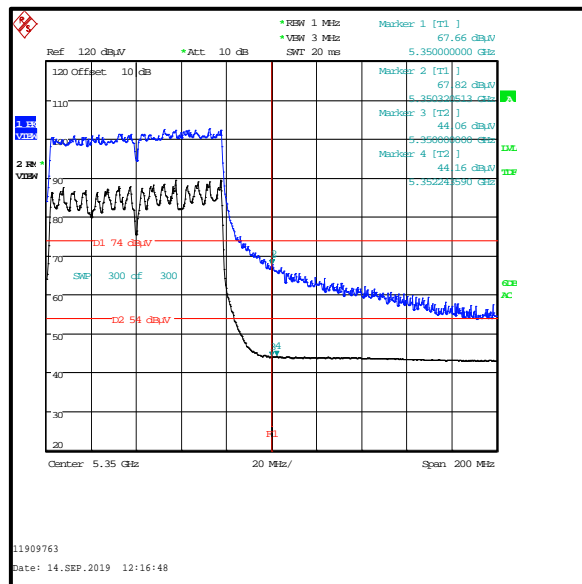
**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / 256-QAM / MCS9x1 / Port 1 & 2**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	67.7	74.0	6.3	Complied
5350.321	67.8	74.0	6.2	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	44.1	3.7	47.8	54.0	6.2	Complied
5352.244	44.2	3.7	47.9	54.0	6.1	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / MIMO / 3Tx CDD / BPSK / 9 Mbps / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5112.308	57.8	74.0	16.2	Complied
5150	56.1	74.0	17.9	Complied

**Results: Upper Band Edge / Peak**

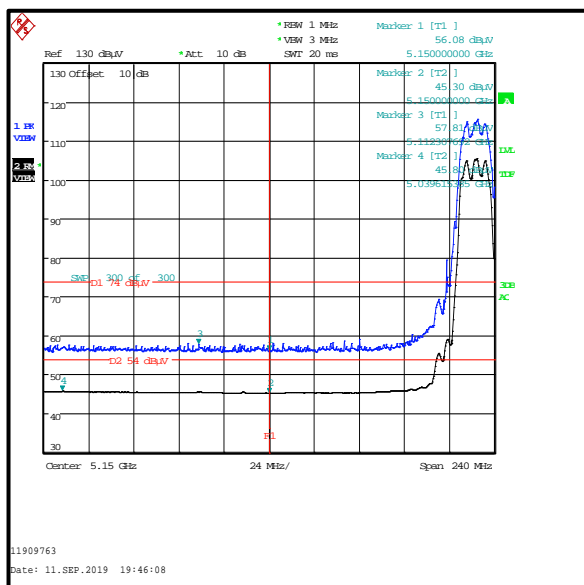
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.8	74.0	14.2	Complied
5352.821	60.0	74.0	14.0	Complied

**Results: Lower Band Edge / Average**

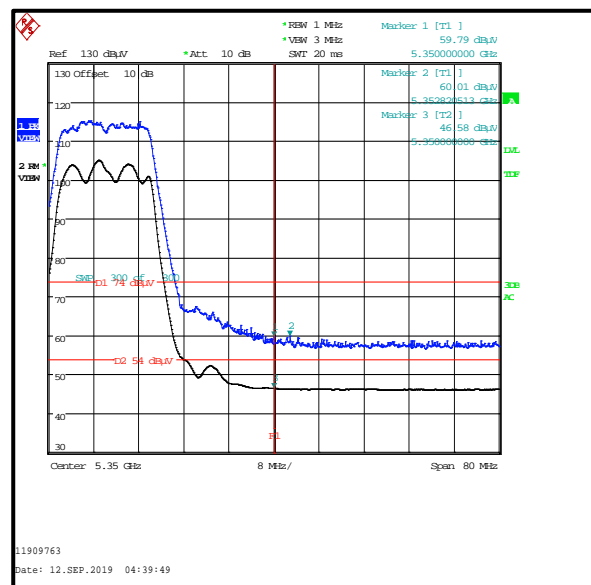
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5039.615	45.8	1.8	47.6	54.0	6.4	Complied
5150	45.3	1.8	47.1	54.0	6.9	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.6	1.5	48.1	54.0	5.9	Complied



Lower Band Edge



Upper Band Edge



**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / MIMO / 3Tx CDD / QPSK / 12 Mbps / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5136.538	58.2	74.0	15.8	Complied
5150	56.6	74.0	17.4	Complied

**Results: Upper Band Edge / Peak**

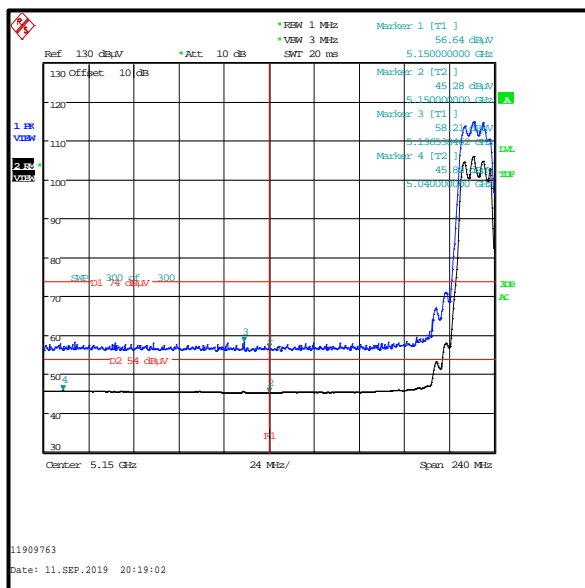
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	56.6	74.0	17.4	Complied
5370.256	58.3	74.0	15.7	Complied

**Results: Lower Band Edge / Average**

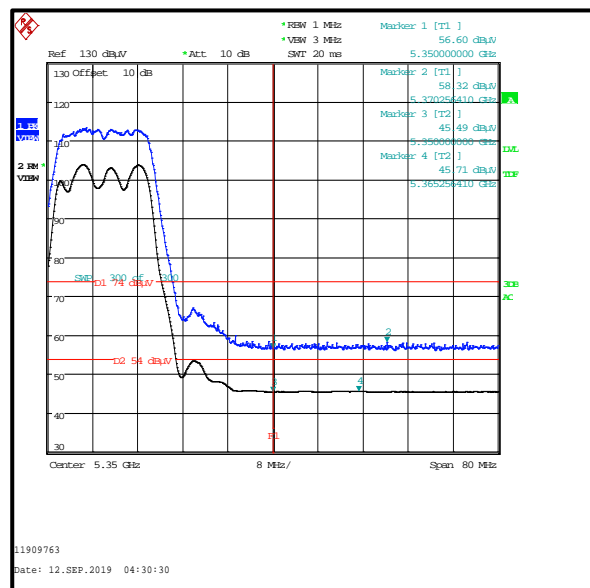
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.000	45.8	1.6	47.4	54.0	6.6	Complied
5150	45.3	1.6	46.9	54.0	7.1	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	45.5	1.3	46.8	54.0	7.2	Complied
5365.256	45.7	1.3	47.0	54.0	7.0	Complied



**Lower Band Edge**



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / 16-QAM / MCS3 / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5115.385	58.6	74.0	15.4	Complied
5150	56.9	74.0	17.1	Complied

**Results: Upper Band Edge / Peak**

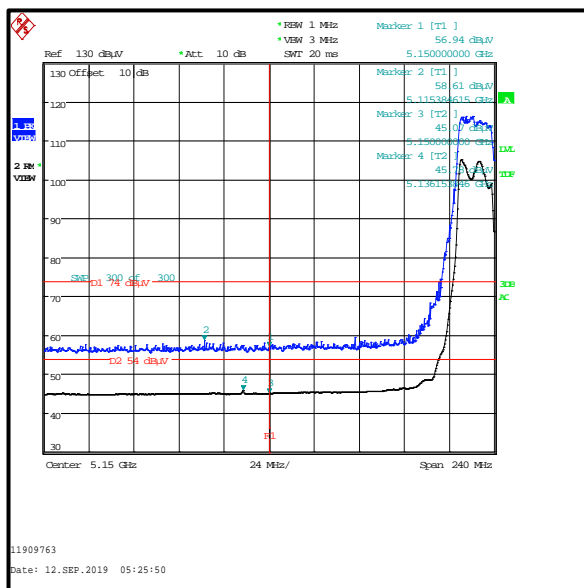
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	58.4	74.0	15.6	Complied
5364.615	59.5	74.0	14.5	Complied

**Results: Lower Band Edge / Average**

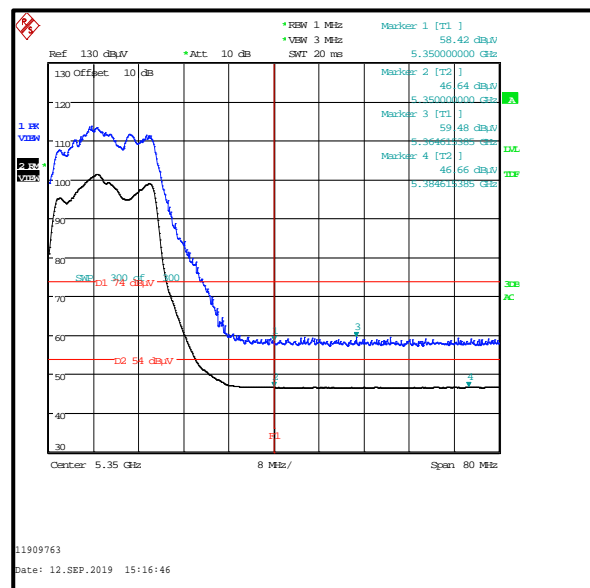
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5136.154	45.8	1.6	47.4	54.0	6.6	Complied
5150	45.1	1.6	46.7	54.0	7.3	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	46.6	1.6	48.2	54.0	5.8	Complied
5384.615	46.7	1.6	48.3	54.0	5.7	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / 64-QAM / MCS7 / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5143.462	58.6	74.0	15.4	Complied
5150	56.5	74.0	17.5	Complied

**Results: Upper Band Edge / Peak**

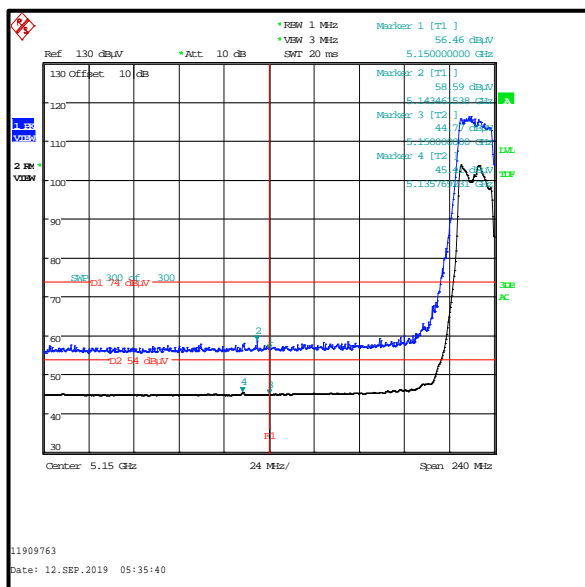
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	57.9	74.0	16.1	Complied
5358.846	59.8	74.0	14.2	Complied

**Results: Lower Band Edge / Average**

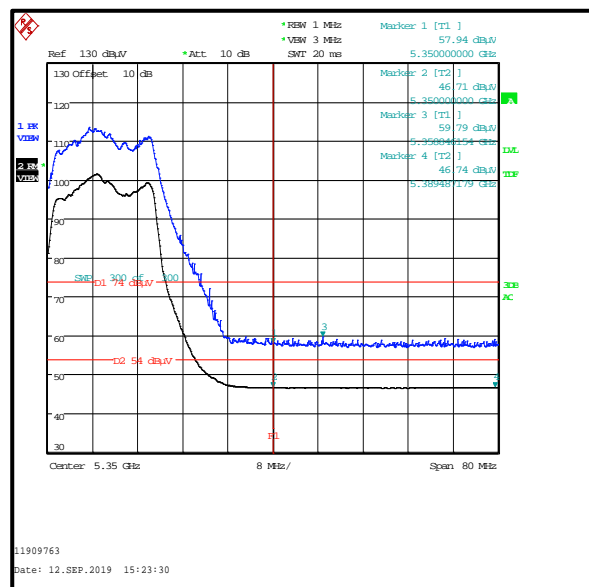
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5135.769	45.4	1.6	47.0	54.0	7.0	Complied
5150	44.8	1.6	46.4	54.0	7.6	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	46.7	1.6	48.3	54.0	5.7	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / 16-QAM / MCS3 / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5017.628	58.1	74.0	15.9	Complied
5150	55.5	74.0	18.5	Complied

**Results: Upper Band Edge / Peak**

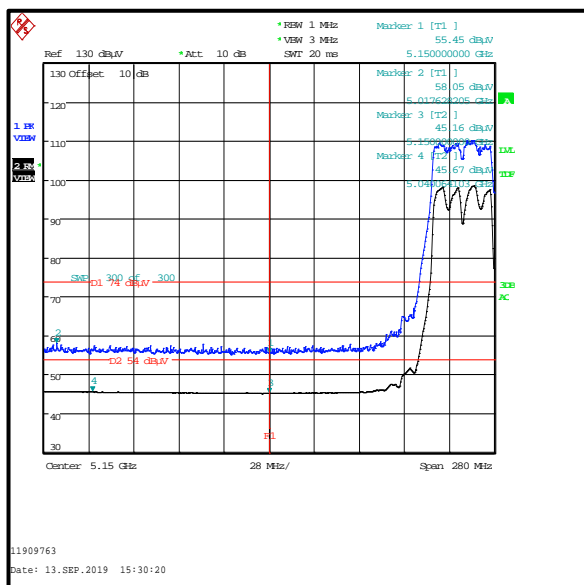
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.6	74.0	14.4	Complied
5354.808	60.2	74.0	13.8	Complied

**Results: Lower Band Edge / Average**

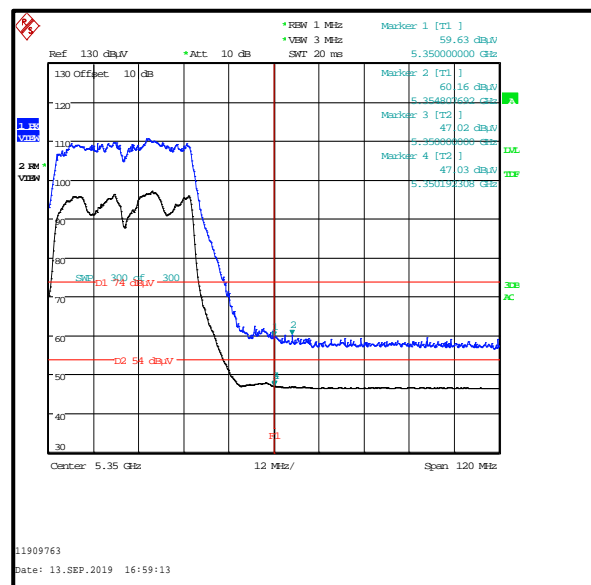
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.064	45.7	1.6	47.3	54.0	6.7	Complied
5150	45.2	1.6	46.8	54.0	7.2	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.0	1.6	48.6	54.0	5.4	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / 64-QAM / MCS5 / Port 1, 2 & 3**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5077.308	57.7	74.0	16.3	Complied
5150	56.2	74.0	17.8	Complied

**Results: Upper Band Edge / Peak**

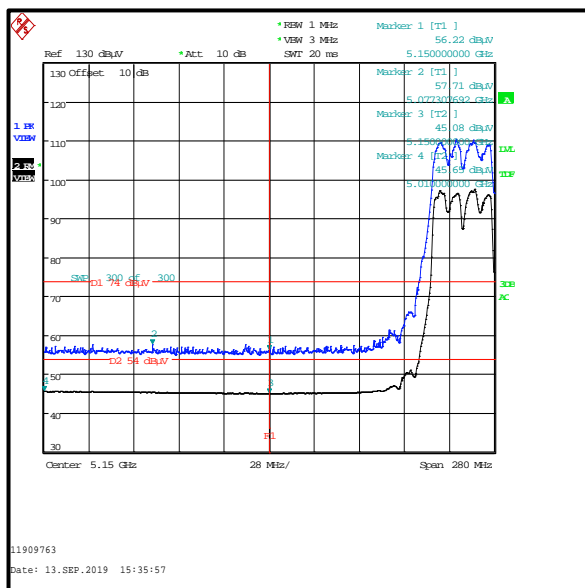
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.4	74.0	14.6	Complied
5352.692	60.7	74.0	13.3	Complied

**Results: Lower Band Edge / Average**

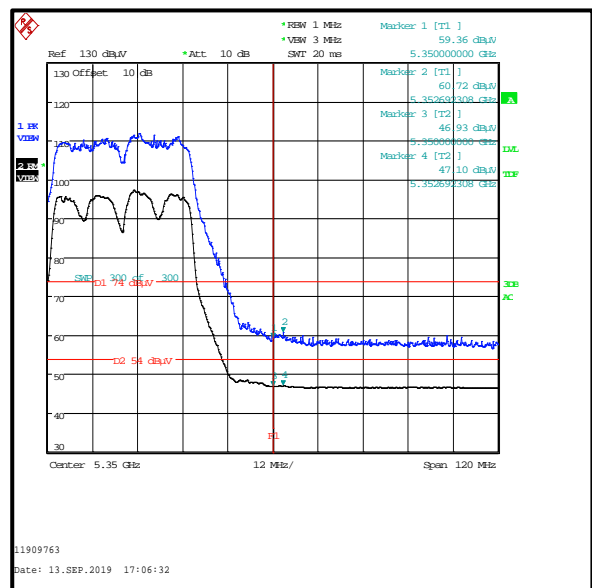
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5010.000	45.7	2.1	47.8	54.0	6.2	Complied
5150	45.1	2.1	47.2	54.0	6.8	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.9	2.2	49.1	54.0	4.9	Complied
5352.692	47.1	2.2	49.3	54.0	4.7	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

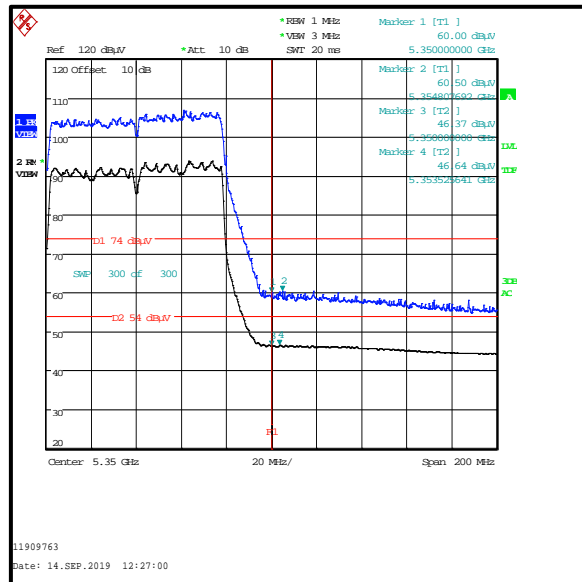
**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / QPSK / MCS1x1 / Port 1, 2 & 3**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	60.0	74.0	14.0	Complied
5354.808	60.5	74.0	13.5	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.4	2.4	48.8	54.0	5.2	Complied
5353.526	46.6	2.4	49.0	54.0	5.0	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

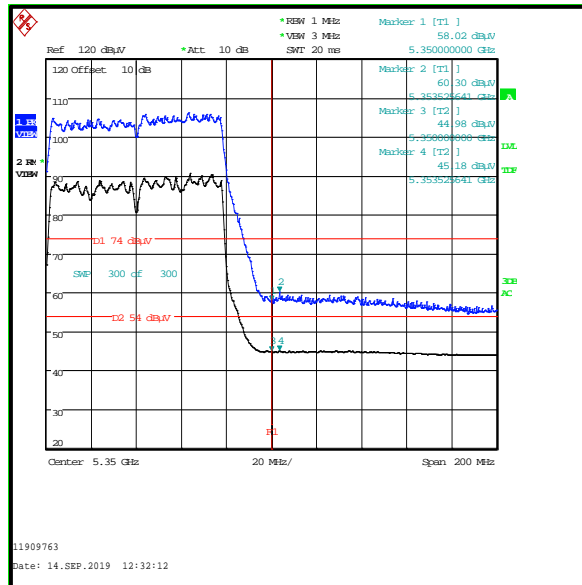
**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / QPSK / MCS2x1 / Port 1, 2 & 3**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	60.3	74.0	13.7	Complied
5353.526	58.0	74.0	16.0	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	45.0	2.7	47.7	54.0	6.3	Complied
5353.526	45.2	2.7	47.9	54.0	6.1	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11a / 20 MHz / MIMO / 4Tx CDD / QPSK / 12 Mbps / Port 1, 2, 3 & 4**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5030.769	58.0	74.0	16.0	Complied
5150	55.9	74.0	18.1	Complied

**Results: Upper Band Edge / Peak**

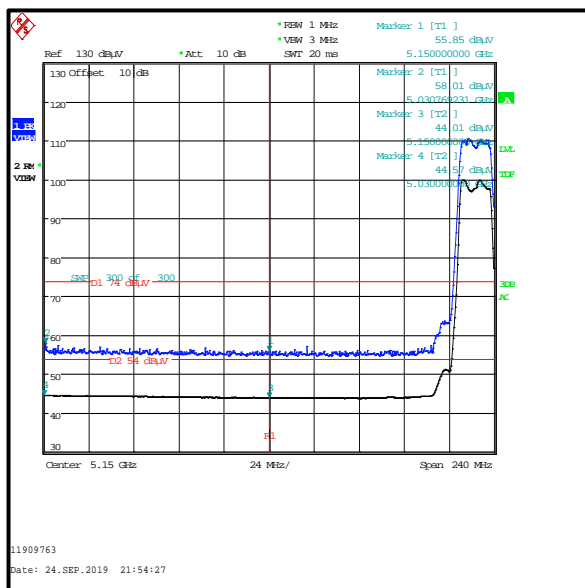
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	57.3	74.0	16.7	Complied
5378.590	58.1	74.0	15.9	Complied

**Results: Lower Band Edge / Average**

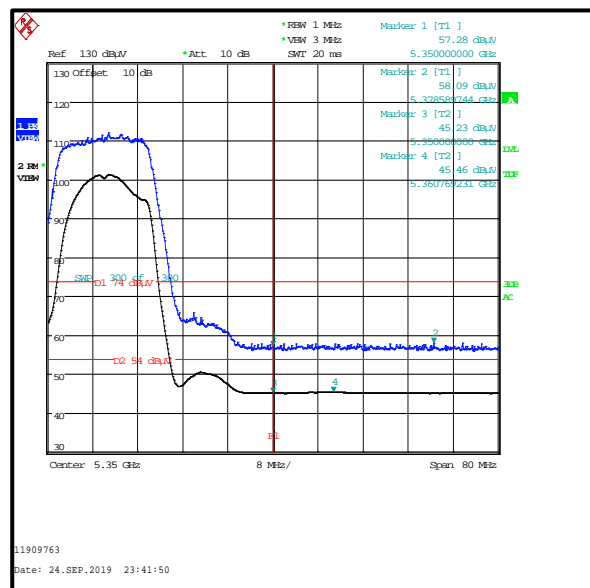
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5030.000	44.6	0.4	45.0	54.0	9.0	Complied
5150	44.0	0.4	44.4	54.0	9.6	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	45.2	0.8	46.0	54.0	8.0	Complied
5360.769	45.5	0.8	46.3	54.0	7.7	Complied



Lower Band Edge



Upper Band Edge



**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 20 MHz / MIMO / 4Tx CDD / QPSK / MCS1 / Port 1, 2, 3 & 4**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5057.308	56.9	74.0	17.1	Complied
5150	55.5	74.0	18.5	Complied

**Results: Upper Band Edge / Peak**

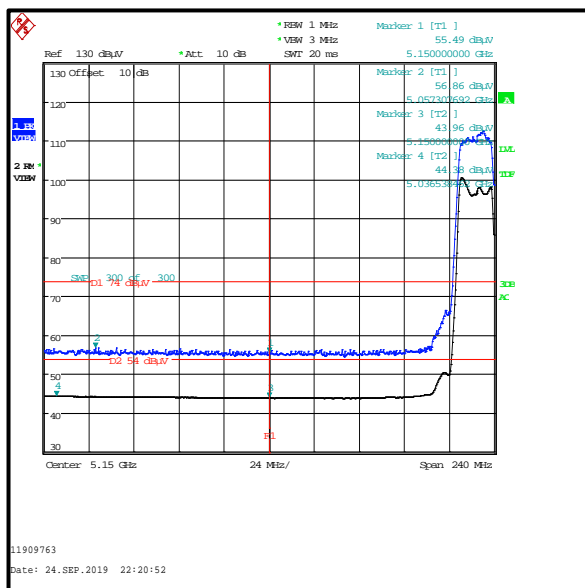
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	57.5	74.0	16.5	Complied
5352.308	58.3	74.0	15.7	Complied

**Results: Lower Band Edge / Average**

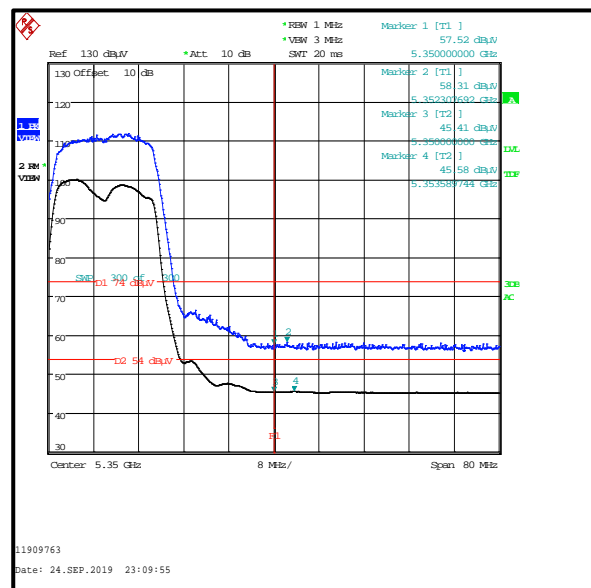
Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5036.538	44.4	0.6	45.0	54.0	9.0	Complied
5150	44.0	0.6	44.6	54.0	9.4	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dB $\mu$ V/m)	Duty Cycle correction (dB)	Corrected Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5350	45.4	0.6	46.0	54.0	8.0	Complied
5353.590	45.6	0.6	46.2	54.0	7.8	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

**Results: 802.11n / 40 MHz / MIMO / 4Tx CDD / 16-QAM / MCS3 / Port 1, 2, 3 & 4**

**Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5061.154	56.5	74.0	17.5	Complied
5150	55.1	74.0	18.9	Complied

**Results: Upper Band Edge / Peak**

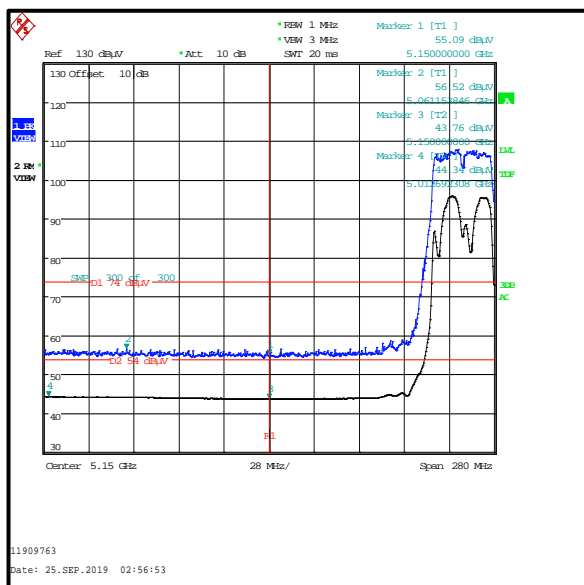
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.9	74.0	15.1	Complied
5358.846	60.0	74.0	14.0	Complied

**Results: Lower Band Edge / Average**

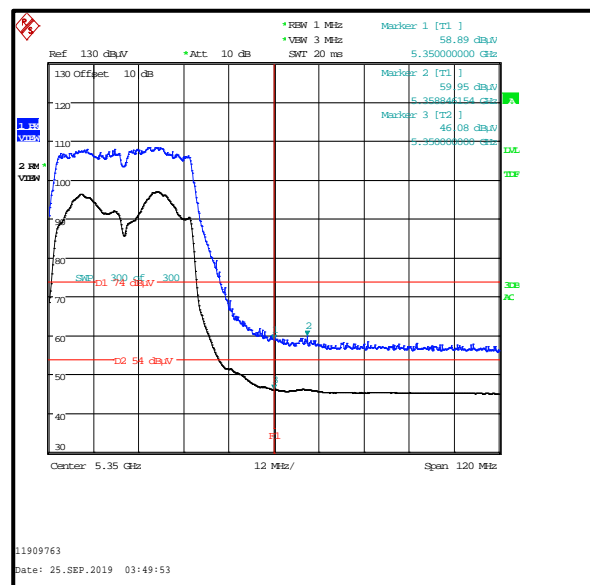
Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5012.692	44.3	1.4	45.7	54.0	8.3	Complied
5150	43.8	1.4	45.2	54.0	8.8	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.1	1.4	47.5	54.0	6.5	Complied



Lower Band Edge



Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**

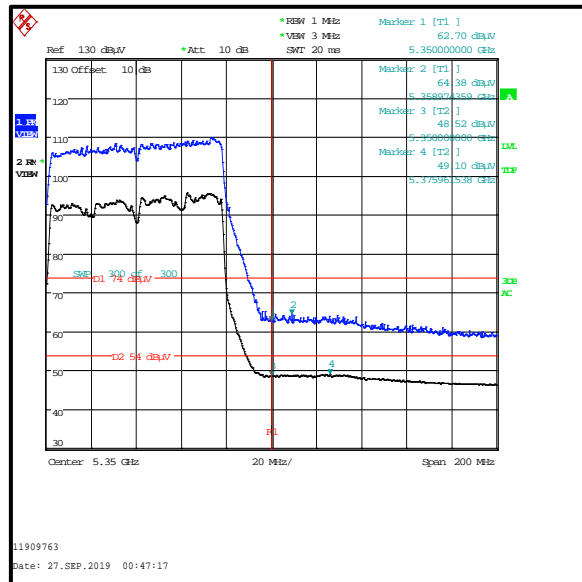
**Results: 802.11ac / 80 MHz / MIMO / 4Tx CDD / 16-QAM / MCS3x1 / Port 1, 2, 3 & 4**

**Results: Upper Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	62.7	74.0	11.3	Complied
5358.974	64.4	74.0	9.6	Complied

**Results: Upper Band Edge / Average**

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	48.5	3.0	51.5	54.0	2.5	Complied
5375.962	49.1	3.0	52.1	54.0	1.9	Complied



**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band)****5.3.2. 5.47-5.725 GHz band****Test Summary:**

<b>Test Engineers:</b>	John Ferdinand, Andrew Harding, Mark Perry & Mohamed Toubella	<b>Test Dates:</b>	10 September 2019 to 27 September 2019
<b>Test Sample Serial Numbers:</b>	2405066 & 2428534		

<b>FCC Reference:</b>	Parts 15.407(b)(3),(7), 15.205 & 15.209(a)
<b>Test Method Used:</b>	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

**Environmental Conditions:**

<b>Temperature (°C):</b>	21 to 24
<b>Relative Humidity (%):</b>	41 to 52

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)****Note(s):**

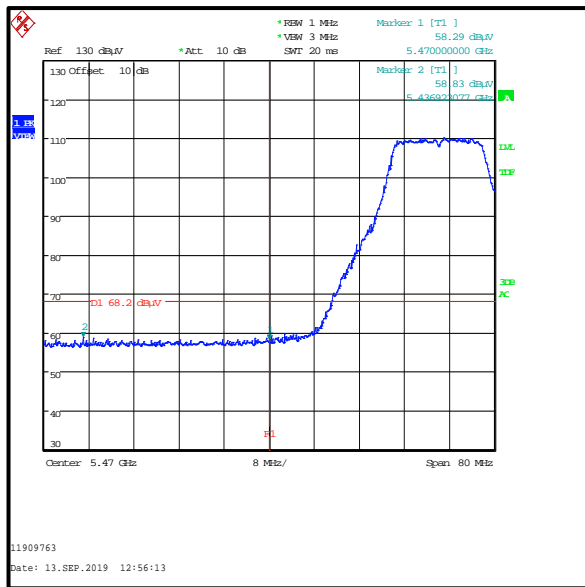
1. Measurements were performed in the EUT modes that produced the highest power and the widest bandwidths as these were deemed to be the worst case modes. The modes that produced the highest power and widest bandwidth were:
  - 802.11a SISO – 64-QAM / 48 Mbps / Port 1
  - 802.11a SISO – 64-QAM / 54 Mbps / Port 1
  - 802.11n HT20 SISO – QPSK / MCS2 / Port 1
  - 802.11n HT20 SISO – 64-QAM / MCS6 / Port 1
  - 802.11n HT40 SISO – 16-QAM / MCS3 / Port 1
  - 802.11n HT40 SISO – 16-QAM / MCS4 / Port 1
  - 802.11ac VHT80 SISO – QPSK / MCS1x1 / Port 1
  - 802.11ac VHT80 SISO – 256-QAM / MCS8x1 / Port 1
  - 802.11a MIMO – 64-QAM / 48 Mbps / 2Tx CDD / Ports 1 & 2
  - 802.11a MIMO – 64-QAM / 54 Mbps / 2Tx CDD / Ports 1 & 2
  - 802.11n HT20 MIMO – BPSK / MCS0 / 2Tx CDD / Ports 1 & 2
  - 802.11n HT20 MIMO – 16-QAM / MCS4 / 2Tx CDD / Ports 1 & 2
  - 802.11n HT40 MIMO – 64-QAM / MCS7 / 2Tx CDD / Ports 1 & 2
  - 802.11ac VHT80 MIMO – 64-QAM / MCS5x1 / 2Tx CDD / Ports 1 & 2
  - 802.11ac VHT80 MIMO – 256-QAM / MCS9x1 / 2Tx CDD / Ports 1 & 2
  - 802.11a MIMO – BPSK / 9 Mbps / 3Tx CDD / Ports 1, 2 & 3
  - 802.11a MIMO – QPSK / 12 Mbps / 3Tx CDD / Ports 1, 2 & 3
  - 802.11n HT20 MIMO – 16-QAM / MCS3 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11n HT20 MIMO – 64-QAM / MCS7 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11n HT40 MIMO – 16-QAM / MCS3 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11n HT40 MIMO – 64-QAM / MCS5 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11ac VHT80 MIMO – QPSK / MCS1x1 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11ac VHT80 MIMO – QPSK / MCS2x1 / 3Tx CDD / Ports 1, 2 & 3
  - 802.11a MIMO – QPSK / 12 Mbps / 4Tx CDD / Ports 1, 2, 3 & 4
  - 802.11n HT20 MIMO – QPSK / MCS1 / 4Tx CDD / Ports 1, 2, 3 & 4
  - 802.11n HT40 MIMO – 16-QAM / MCS3 / 4Tx CDD / Ports 1, 2, 3 & 4
  - 802.11ac VHT80 MIMO – 16-QAM / MCS3x1 / 4Tx CDD / Ports 1, 2, 3 & 4
2. Lower band edge measurements were performed with the EUT transmitting on the bottom channel. Upper band edge measurements were performed with the EUT transmitting on the top channel.
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. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply. Tests were performed in these restricted bands of operation with the EUT transmitting on the bottom and top channels within 5.47-5.725 GHz band.
4. For completeness, results are shown as EIRP in dBm and also as field strength in dBµV/m. Measured field strength was converted to EIRP in accordance with KDB 789033 II.G.2.c)(iii) using a conversion factor of 95.2.

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

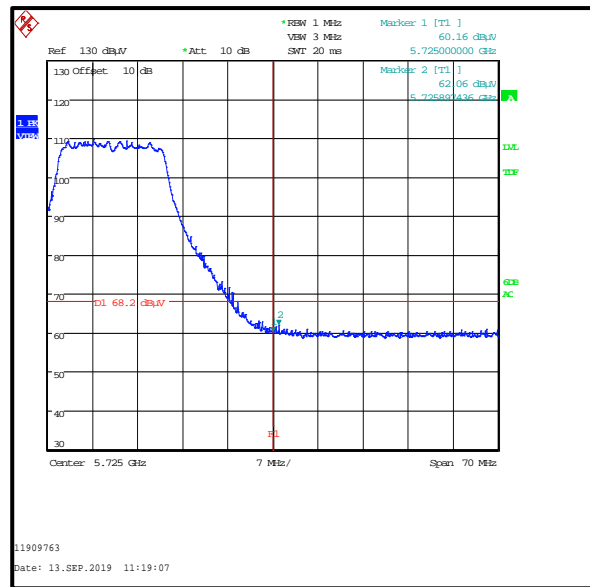
**Results: 802.11a / 20 MHz / SISO / 64-QAM / 48 Mbps / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5436.923	-36.4	-27.0	9.4	Complied
5470	-36.9	-27.0	9.9	Complied
5725	-35.0	-27.0	8.0	Complied
5725.897	-33.1	-27.0	6.1	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5436.923	58.8	68.2	9.4	Complied
5470.000	58.3	68.2	9.9	Complied
5725.000	60.2	68.2	8.0	Complied
5725.897	62.1	68.2	6.1	Complied



**Lower Band Edge**



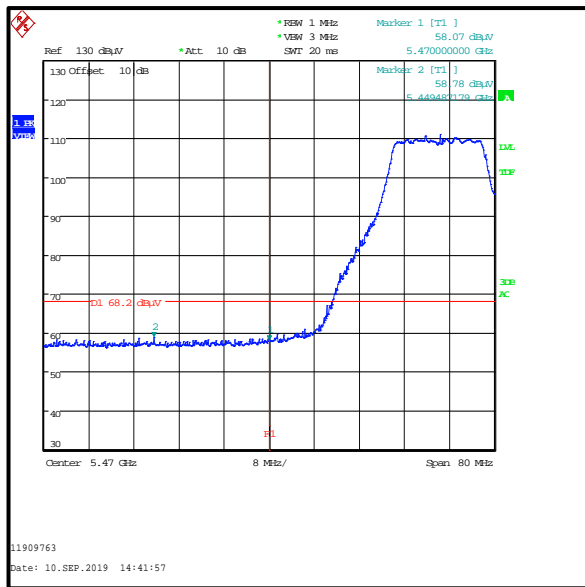
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

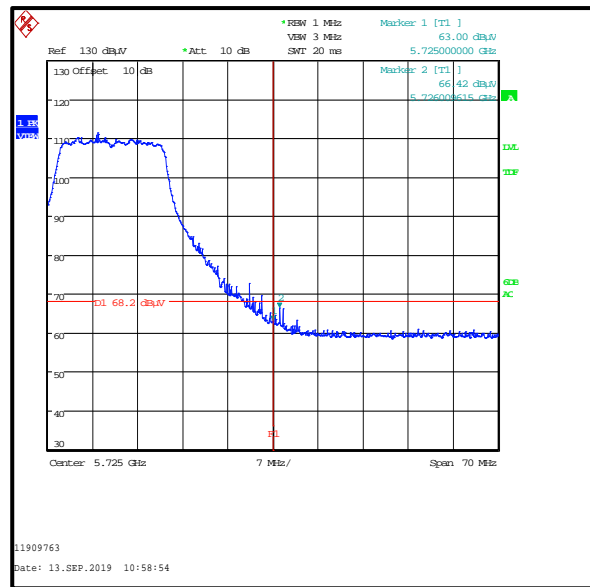
**Results: 802.11a / 20 MHz / SISO / 64-QAM / 54 Mbps / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5449.487	-36.4	-27.0	9.4	Complied
5470	-37.1	-27.0	10.1	Complied
5725	-32.2	-27.0	5.2	Complied
5726.010	-28.8	-27.0	1.8	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5449.487	58.8	68.2	9.4	Complied
5470	58.1	68.2	10.1	Complied
5725	63.0	68.2	5.2	Complied
5726.010	66.4	68.2	1.8	Complied



**Lower Band Edge**



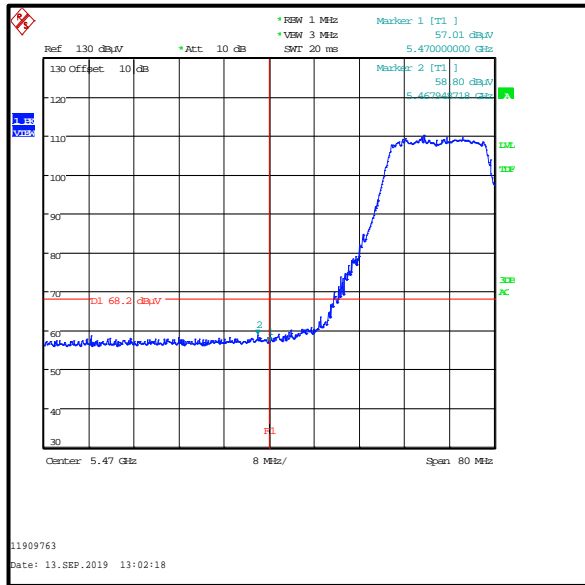
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

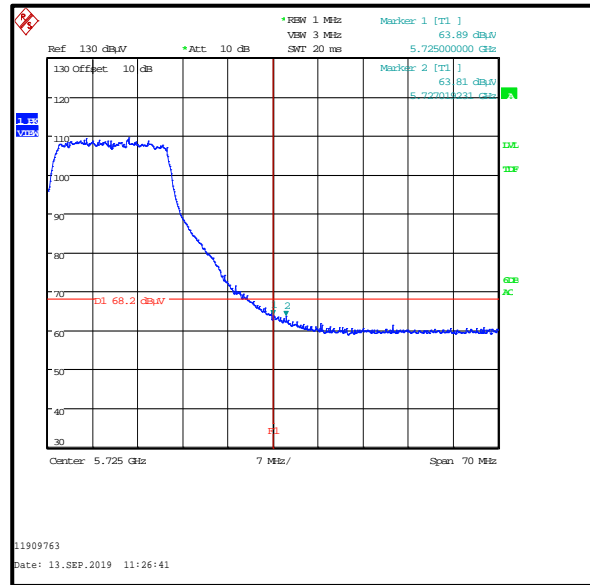
**Results: 802.11n / 20 MHz / SISO / QPSK / MCS2 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.949	-36.4	-27.0	9.4	Complied
5470	-38.2	-27.0	11.2	Complied
5725	-31.3	-27.0	4.3	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5467.949	58.8	68.2	9.4	Complied
5470	57.0	68.2	11.2	Complied
5725	63.9	68.2	4.3	Complied



Lower Band Edge



Upper Band Edge

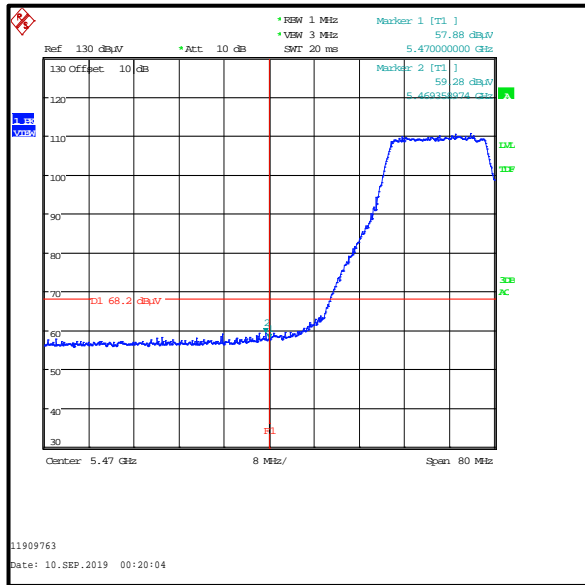


**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

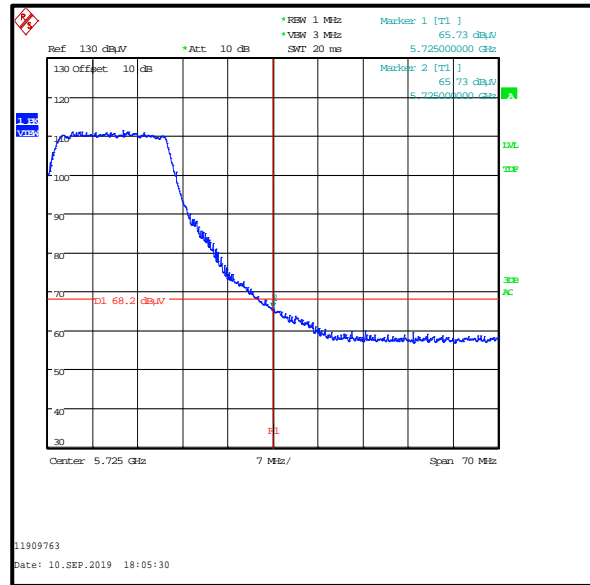
**Results: 802.11n / 20 MHz / SISO / 64-QAM / MCS6 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.359	-35.9	-27.0	8.9	Complied
5470	-37.3	-27.0	10.3	Complied
5725	-29.5	-27.0	2.5	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.359	59.3	68.2	8.9	Complied
5470	57.9	68.2	10.3	Complied
5725	65.7	68.2	2.5	Complied



Lower Band Edge



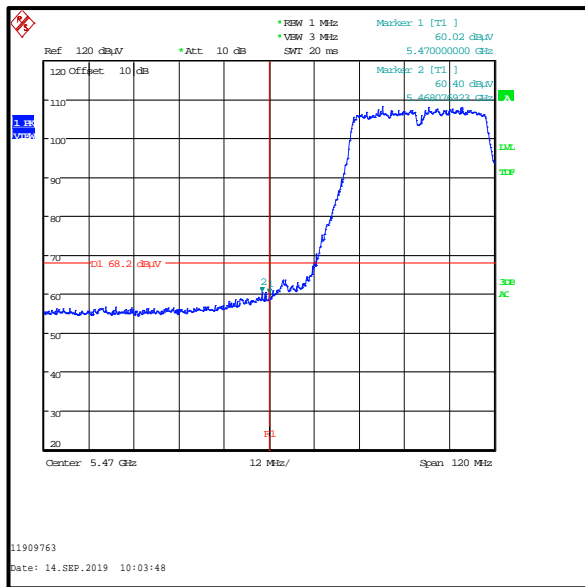
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

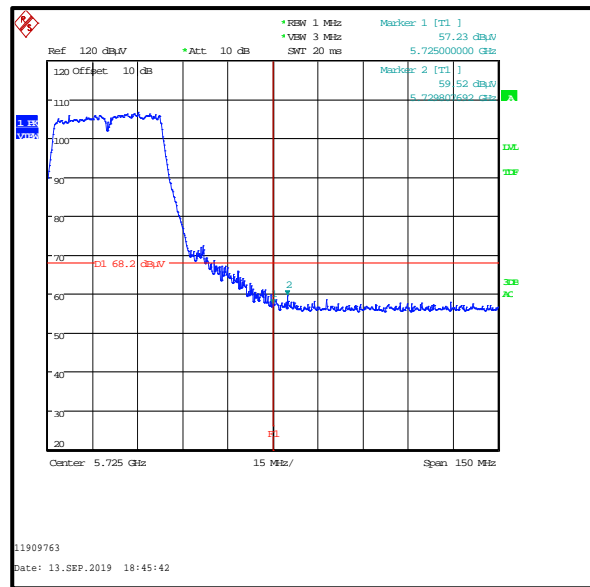
**Results: 802.11n / 40 MHz / SISO / 16-QAM / MCS3 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.077	-34.8	-27.0	7.8	Complied
5470	-35.2	-27.0	8.2	Complied
5725	-38.0	-27.0	11.0	Complied
5729.808	-35.7	-27.0	8.7	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5468.077	60.4	68.2	7.8	Complied
5470	60.0	68.2	8.2	Complied
5725	57.2	68.2	11.0	Complied
5729.808	59.5	68.2	8.7	Complied



**Lower Band Edge**



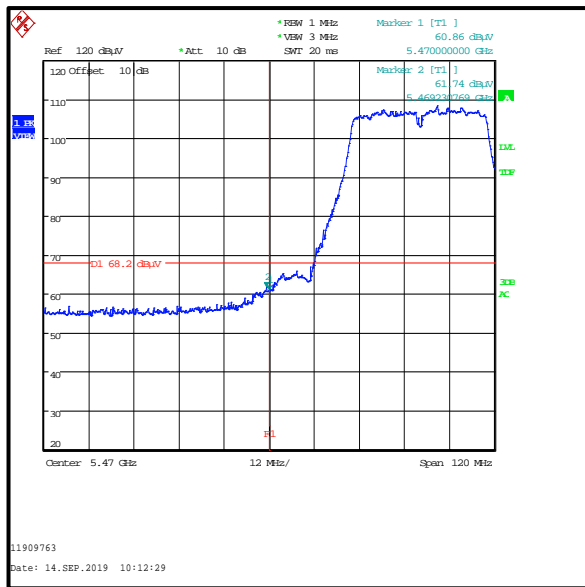
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

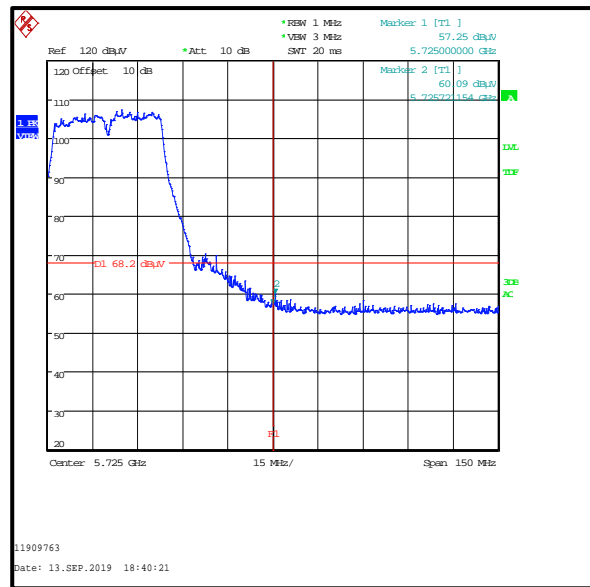
**Results: 802.11n / 40 MHz / SISO / 16-QAM / MCS4 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.231	-33.5	-27.0	6.5	Complied
5470	-34.3	-27.0	7.3	Complied
5725	-37.9	-27.0	10.9	Complied
5725.721	-35.1	-27.0	8.1	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.231	61.7	68.2	6.5	Complied
5470	60.9	68.2	7.3	Complied
5725	57.3	68.2	10.9	Complied
5725.721	60.1	68.2	8.1	Complied



**Lower Band Edge**



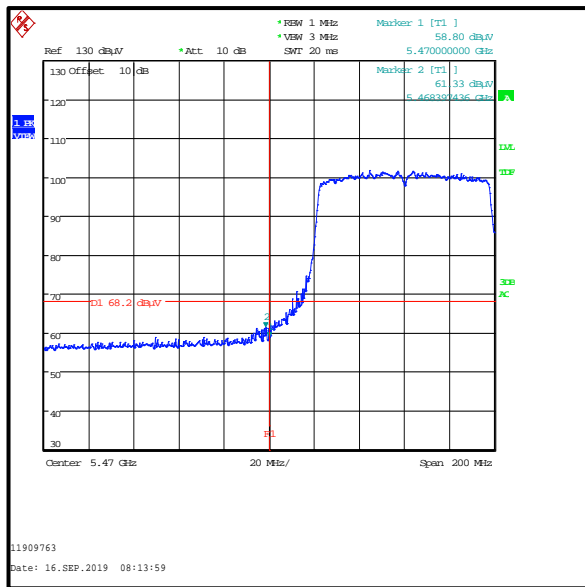
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

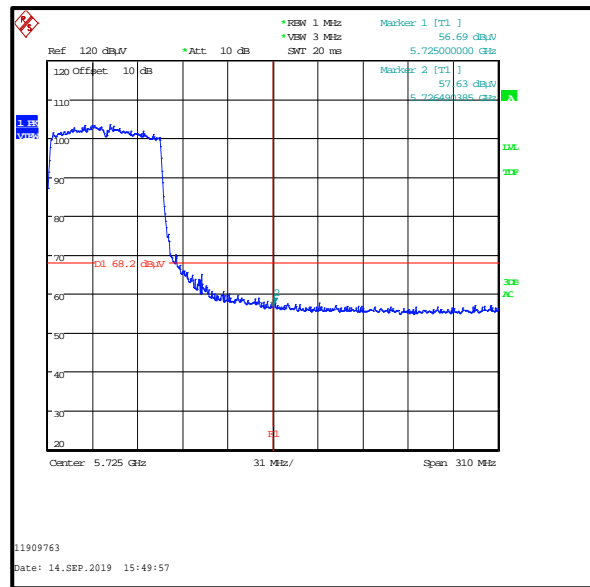
**Results: 802.11ac / 80 MHz / SISO / QPSK / MCS1x1 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.397	-33.9	-27.0	6.9	Complied
5470	-36.4	-27.0	9.4	Complied
5725	-38.5	-27.0	11.5	Complied
5726.490	-37.6	-27.0	10.6	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5468.397	61.3	68.2	6.9	Complied
5470	58.8	68.2	9.4	Complied
5725	56.7	68.2	11.5	Complied
5726.490	57.6	68.2	10.6	Complied



**Lower Band Edge**



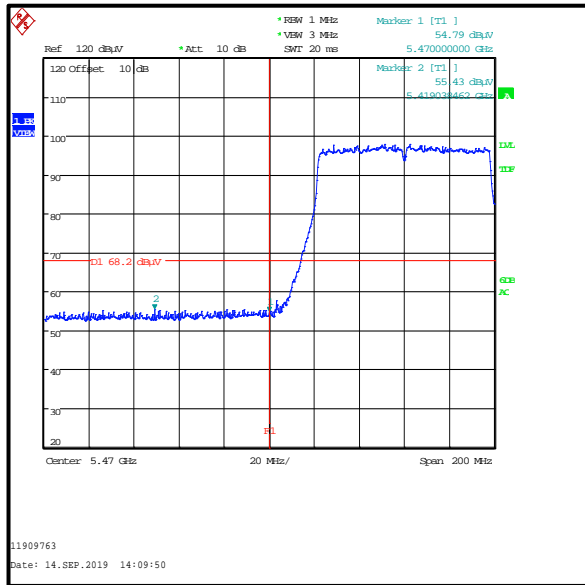
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

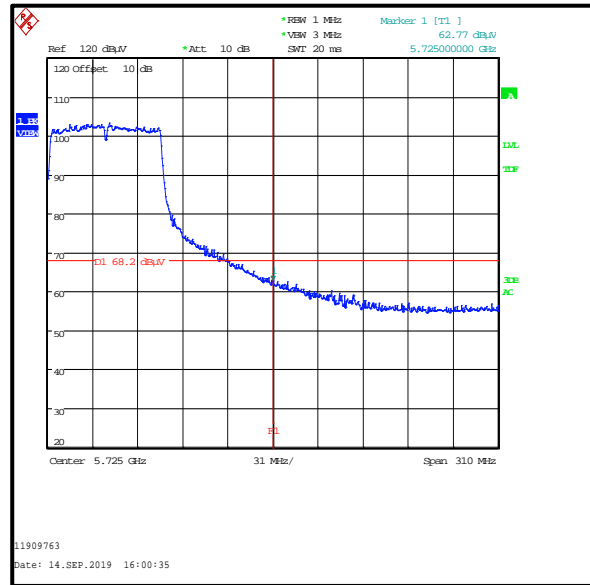
**Results: 802.11ac / 80 MHz / SISO / 256-QAM / MCS8x1 / Port 1 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5419.038	-39.8	-27.0	12.8	Complied
5470	-40.4	-27.0	13.4	Complied
5725	-32.4	-27.0	5.4	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5419.038	55.4	68.2	12.8	Complied
5470	54.8	68.2	13.4	Complied
5725	62.8	68.2	5.4	Complied



**Lower Band Edge**



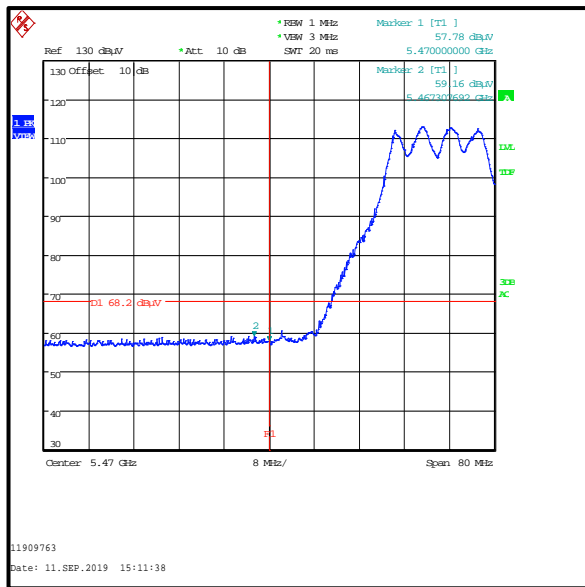
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

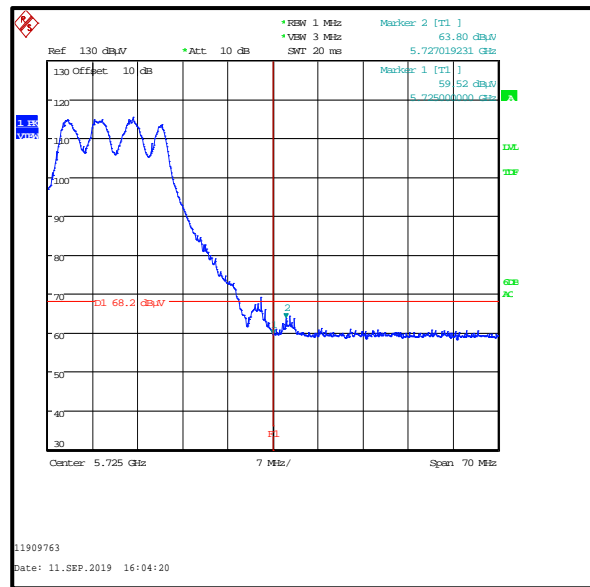
**Results: 802.11a / 20 MHz / MIMO / 2Tx CDD / 64-QAM / 48 Mbps / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.308	-36.0	-27.0	9.0	Complied
5470	-37.4	-27.0	10.4	Complied
5725	-35.7	-27.0	8.7	Complied
5727.019	-31.4	-27.0	4.4	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5467.308	59.2	68.2	9.0	Complied
5470	57.8	68.2	10.4	Complied
5725	59.5	68.2	8.7	Complied
5727.019	63.8	68.2	4.4	Complied



Lower Band Edge



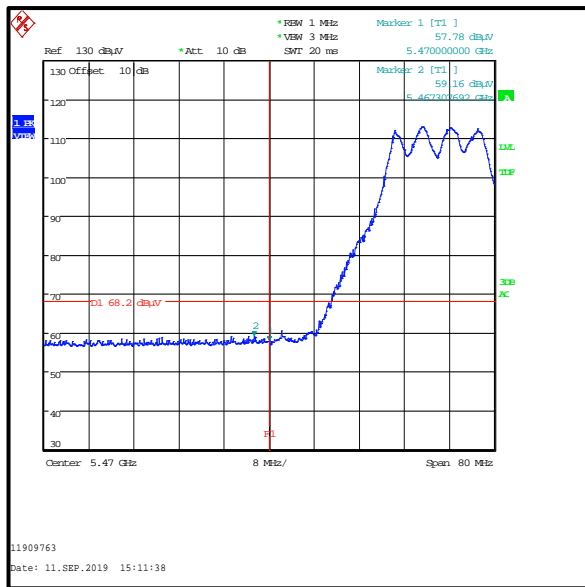
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

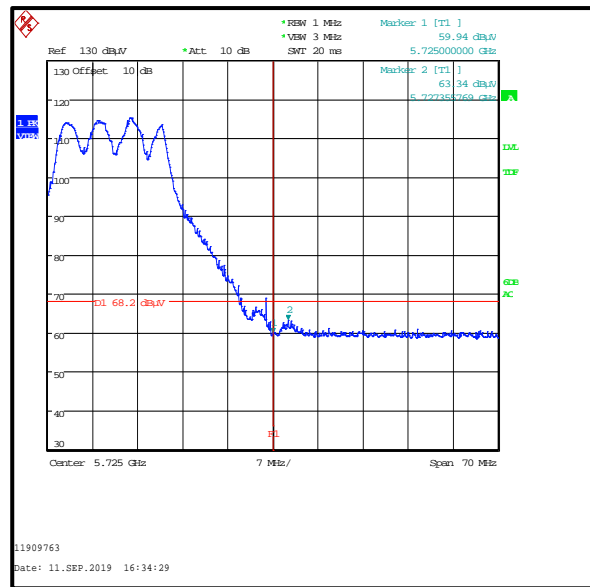
**Results: 802.11a / 20 MHz / MIMO / 2Tx CDD / 64-QAM / 54 Mbps / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.308	-36.0	-27.0	9.0	Complied
5470	-37.4	-27.0	10.4	Complied
5725	-35.3	-27.0	8.3	Complied
5727.356	-31.9	-27.0	4.9	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5467.308	59.2	68.2	9.0	Complied
5470	57.8	68.2	10.4	Complied
5725	59.9	68.2	8.3	Complied
5727.356	63.3	68.2	4.9	Complied



**Lower Band Edge**



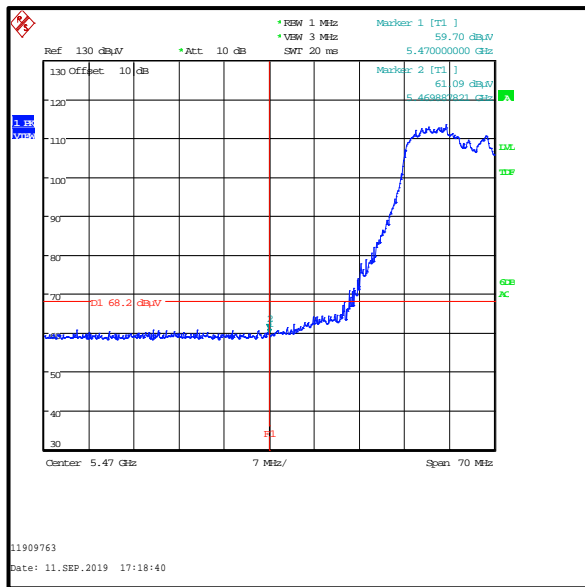
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

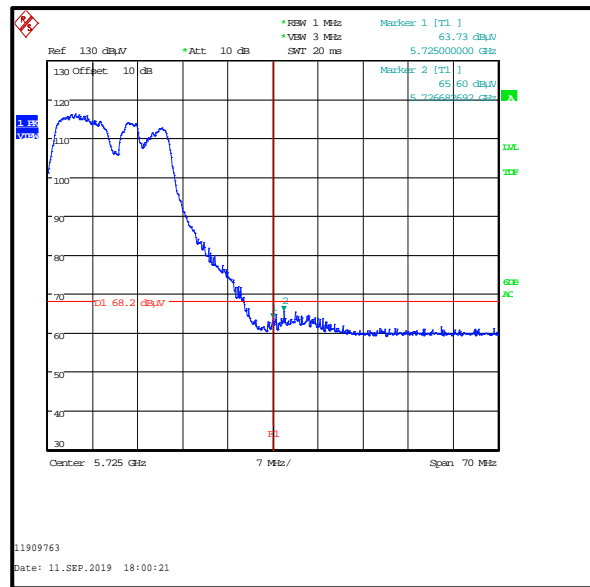
**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.888	-34.1	-27.0	7.1	Complied
5470	-35.5	-27.0	8.5	Complied
5725	-31.5	-27.0	4.5	Complied
5726.683	-29.6	-27.0	2.6	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.888	61.1	68.2	7.1	Complied
5470	59.7	68.2	8.5	Complied
5725	63.7	68.2	4.5	Complied
5726.683	65.6	68.2	2.6	Complied



Lower Band Edge



Upper Band Edge

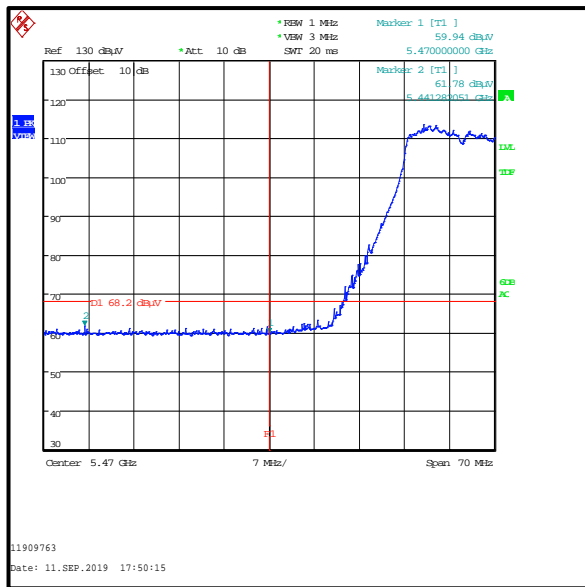


**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

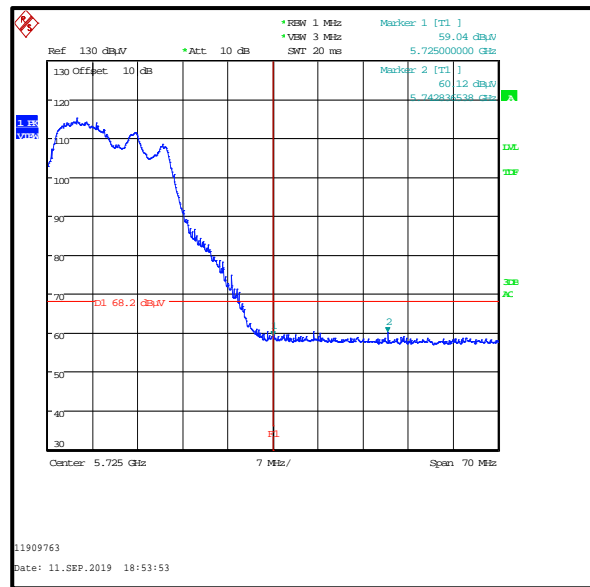
**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / 16-QAM / MCS4 / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5441.282	-33.4	-27.0	6.4	Complied
5470	-35.3	-27.0	8.3	Complied
5725	-36.2	-27.0	9.2	Complied
5742.837	-35.1	-27.0	8.1	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5441.282	61.8	68.2	6.4	Complied
5470	59.9	68.2	8.3	Complied
5725	59.0	68.2	9.2	Complied
5742.837	60.1	68.2	8.1	Complied



**Lower Band Edge**



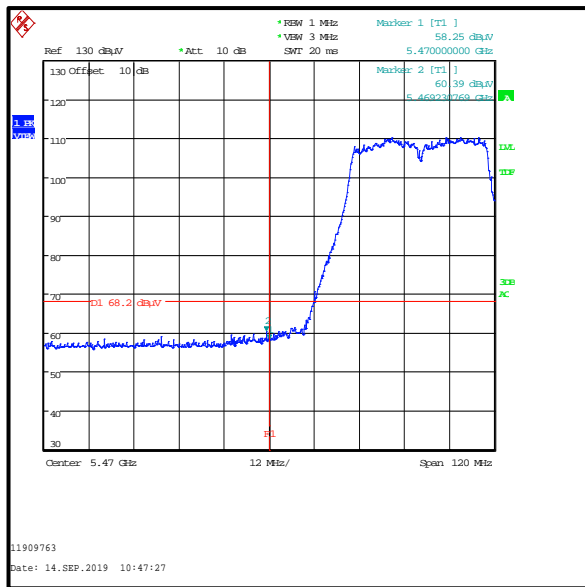
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

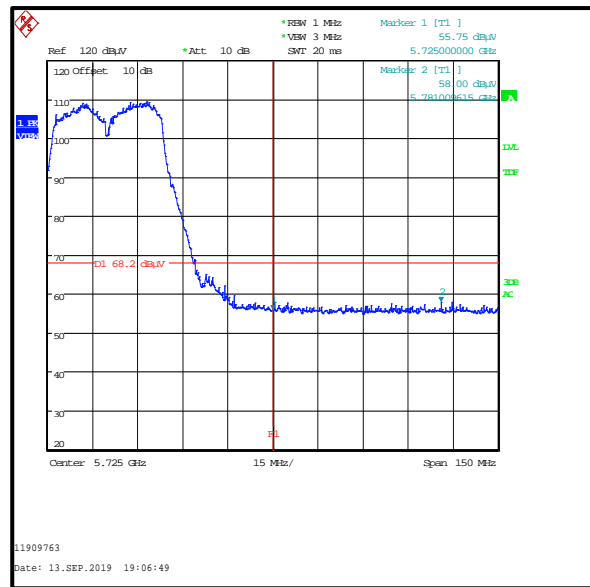
**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / 64-QAM / MCS7 / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.231	-34.8	-27.0	7.8	Complied
5470	-36.9	-27.0	9.9	Complied
5725	-39.4	-27.0	12.4	Complied
5781.010	-37.2	-27.0	10.2	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.231	60.4	68.2	7.8	Complied
5470	58.3	68.2	9.9	Complied
5725	55.8	68.2	12.4	Complied
5781.010	58.0	68.2	10.2	Complied



**Lower Band Edge**



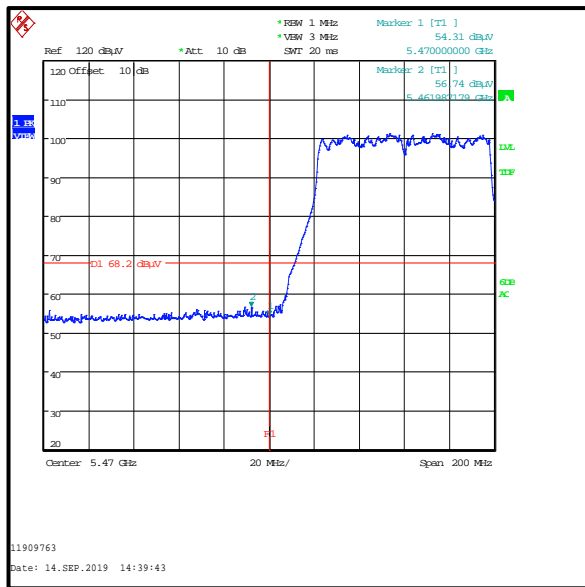
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

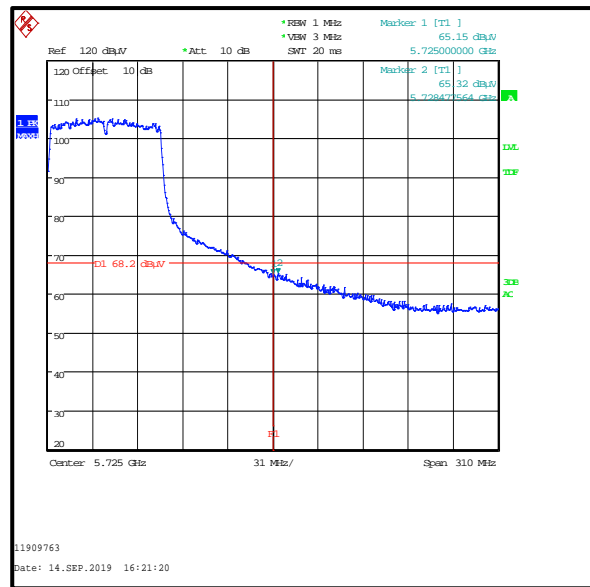
**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / 64-QAM / MCS5x1 / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5461.987	-38.5	-27.0	11.5	Complied
5470	-40.9	-27.0	13.9	Complied
5725	-30.0	-27.0	3.0	Complied
5728.478	-29.9	-27.0	2.9	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5461.987	56.7	68.2	11.5	Complied
5470	54.3	68.2	13.9	Complied
5725	65.2	68.2	3.0	Complied
5728.478	65.3	68.2	2.9	Complied



Lower Band Edge



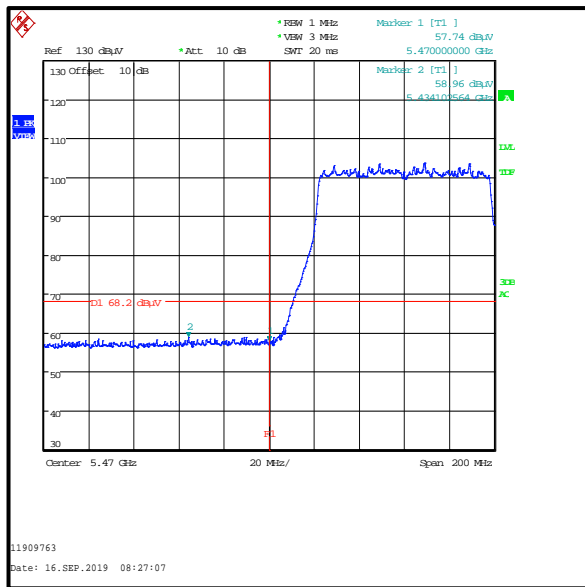
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

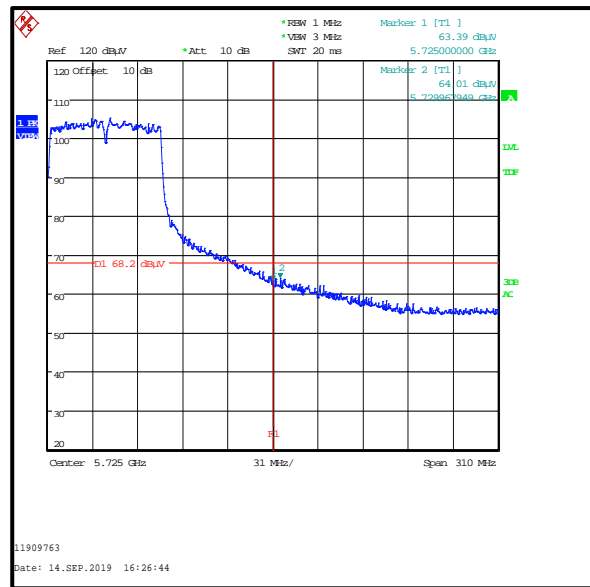
**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / 256-QAM / MCS9x1 / Port 1 & 2 / Peak**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5434.103	-36.2	-27.0	9.2	Complied
5470	-37.5	-27.0	10.5	Complied
5725	-31.8	-27.0	4.8	Complied
5729.968	-31.2	-27.0	4.2	Complied

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
5434.103	59.0	68.2	9.2	Complied
5470	57.7	68.2	10.5	Complied
5725	63.4	68.2	4.8	Complied
5729.968	64.0	68.2	4.2	Complied



Lower Band Edge



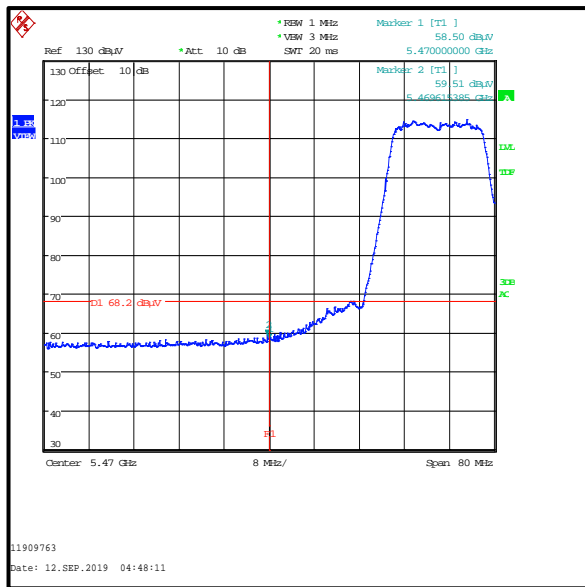
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

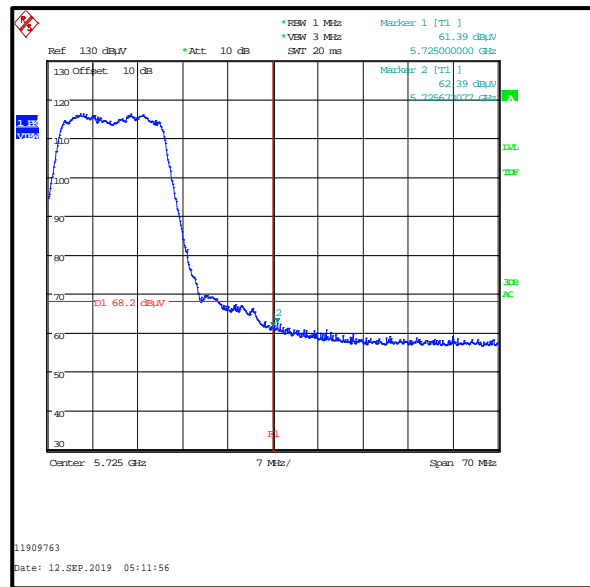
**Results: 802.11a / 20 MHz / MIMO / 3Tx CDD / BPSK / 9 Mbps / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.615	-35.7	-27.0	8.7	Complied
5470	-36.7	-27.0	9.7	Complied
5725	-33.8	-27.0	6.8	Complied
5725.673	-32.8	-27.0	5.8	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.615	59.5	68.2	8.7	Complied
5470	58.5	68.2	9.7	Complied
5725	61.4	68.2	6.8	Complied
5725.673	62.4	68.2	5.8	Complied



Lower Band Edge



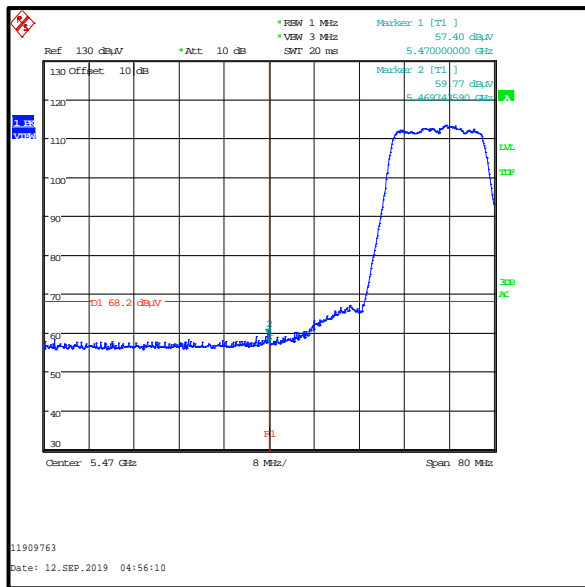
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

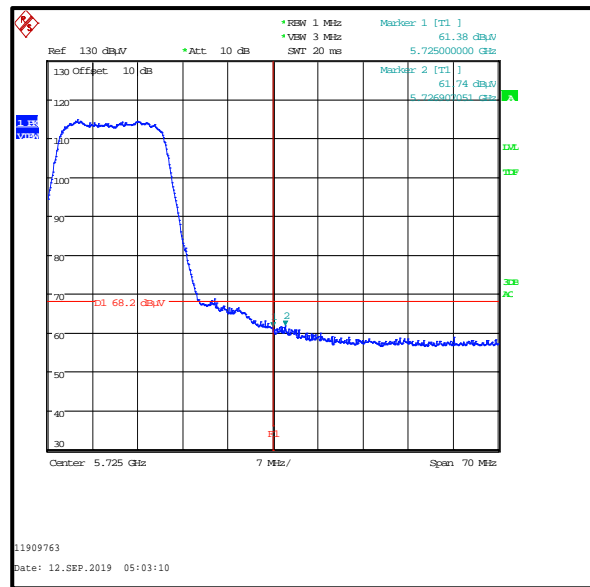
**Results: 802.11a / 20 MHz / MIMO / 3Tx CDD / BPSK / 12 Mbps / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.744	-35.4	-27.0	8.4	Complied
5470	-37.8	-27.0	10.8	Complied
5725	-33.8	-27.0	6.8	Complied
5726.907	-33.5	-27.0	6.5	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.744	59.8	68.2	8.4	Complied
5470	57.4	68.2	10.8	Complied
5725	61.4	68.2	6.8	Complied
5726.907	61.7	68.2	6.5	Complied



Lower Band Edge



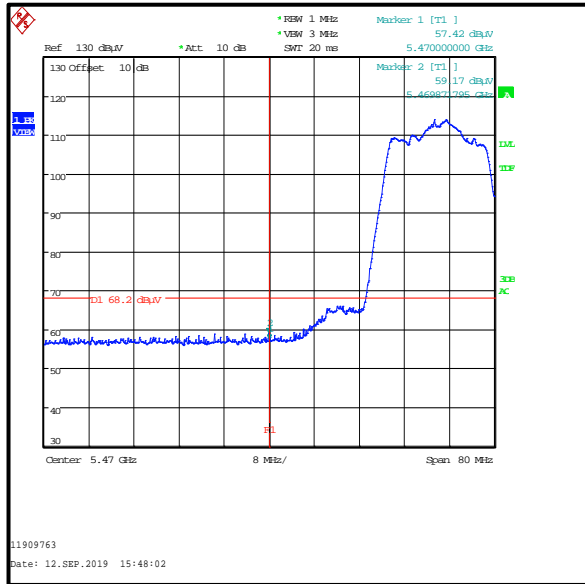
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

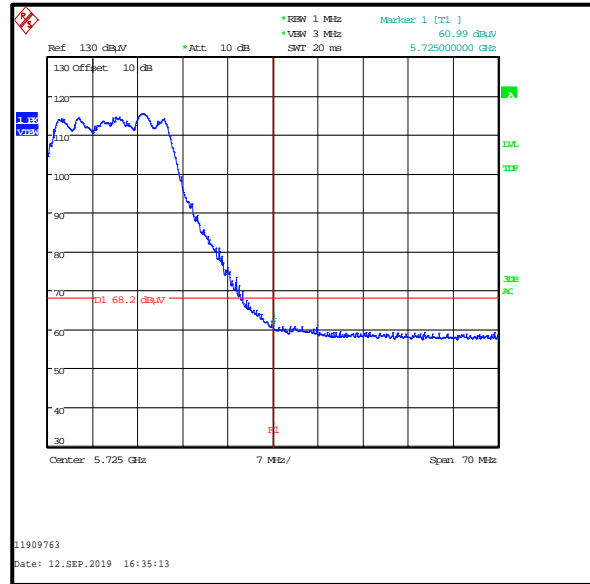
**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / 16-QAM / MCS3 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.872	-36.0	-27.0	9.0	Complied
5470	-37.8	-27.0	10.8	Complied
5725	-34.2	-27.0	7.2	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.872	59.2	68.2	9.0	Complied
5470	57.4	68.2	10.8	Complied
5725	61.0	68.2	7.2	Complied



Lower Band Edge



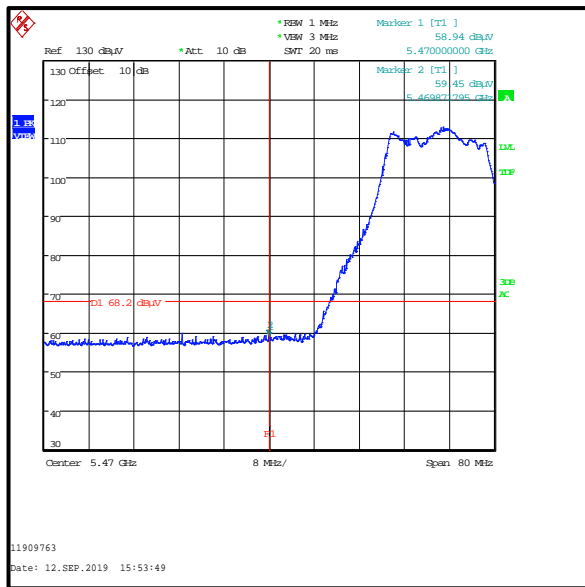
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

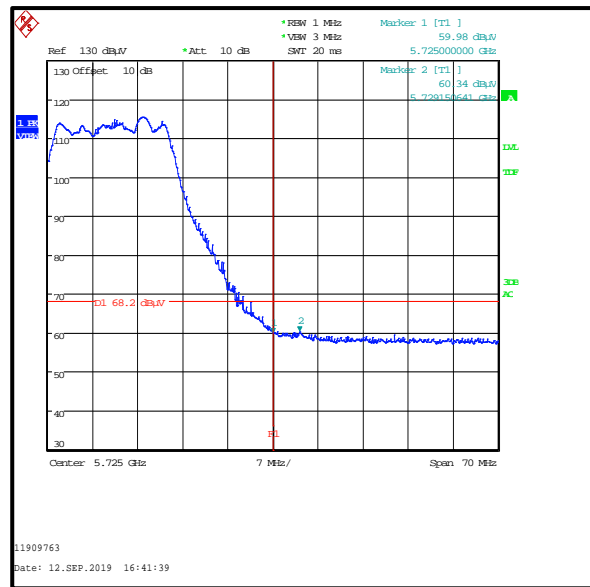
**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / 64-QAM / MCS7 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.872	-35.7	-27.0	8.7	Complied
5470	-36.3	-27.0	9.3	Complied
5725	-35.2	-27.0	8.2	Complied
5729.151	-34.9	-27.0	7.9	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.872	59.5	68.2	8.7	Complied
5470	58.9	68.2	9.3	Complied
5725	60.0	68.2	8.2	Complied
5729.151	60.3	68.2	7.9	Complied



Lower Band Edge



Upper Band Edge

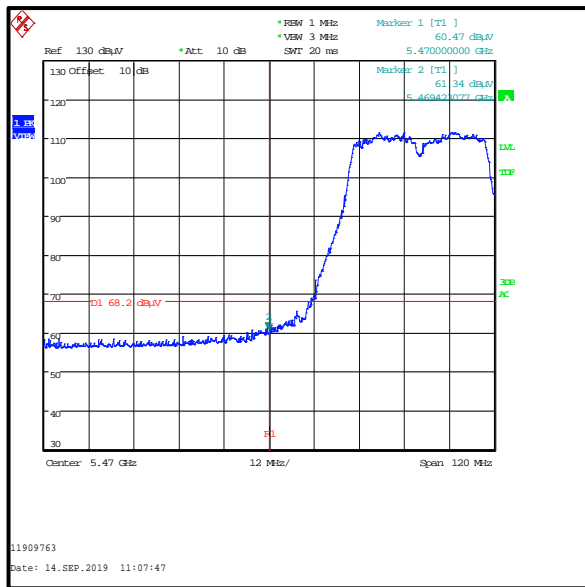


**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

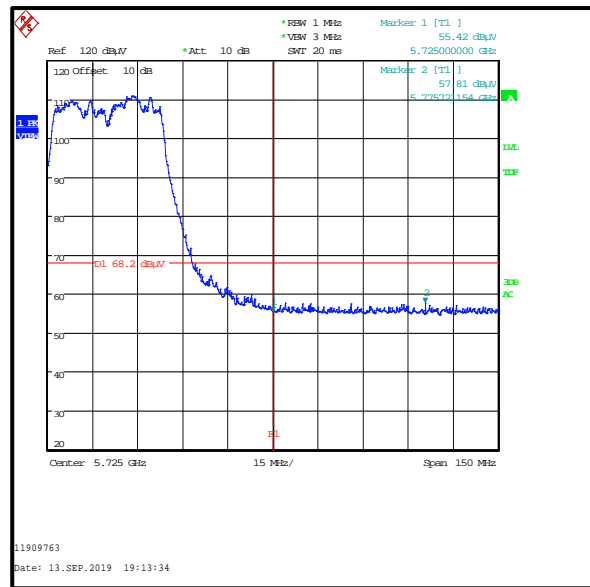
**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / 16-QAM / MCS3 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.423	-33.9	-27.0	6.9	Complied
5470	-34.7	-27.0	7.7	Complied
5725	-39.8	-27.0	12.8	Complied
5775.721	-37.4	-27.0	10.4	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.423	61.3	68.2	6.9	Complied
5470	60.5	68.2	7.7	Complied
5725	55.4	68.2	12.8	Complied
5775.721	57.8	68.2	10.4	Complied



Lower Band Edge



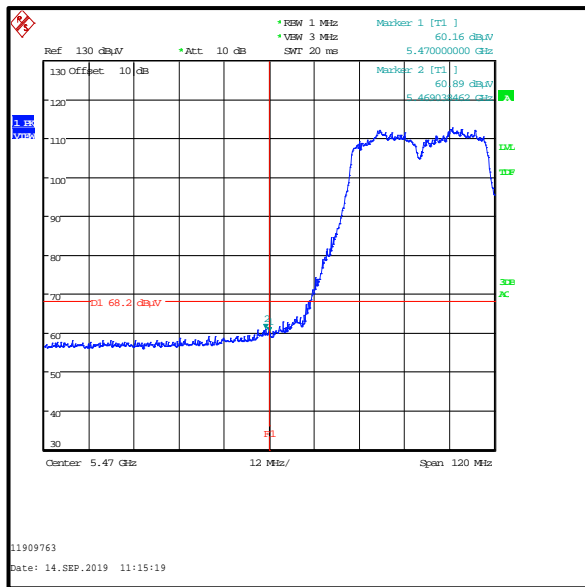
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

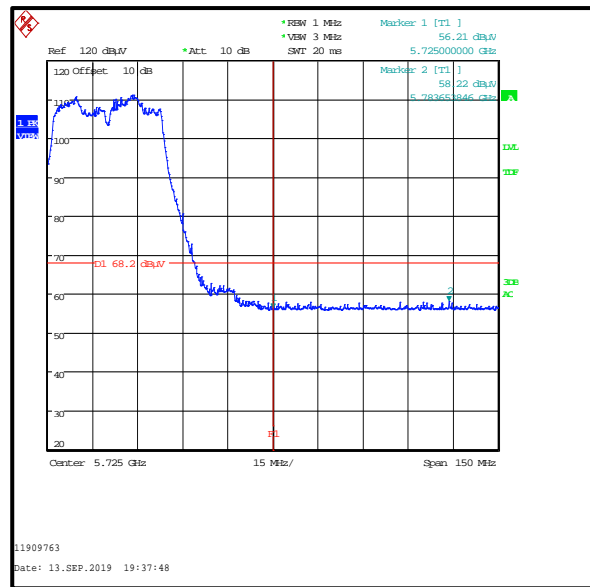
**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / 64-QAM / MCS5 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.038	-34.3	-27.0	7.3	Complied
5470	-35.0	-27.0	8.0	Complied
5725	-39.0	-27.0	12.0	Complied
5783.654	-37.0	-27.0	10.0	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.038	60.9	68.2	7.3	Complied
5470	60.2	68.2	8.0	Complied
5725	56.2	68.2	12.0	Complied
5783.654	58.2	68.2	10.0	Complied



Lower Band Edge



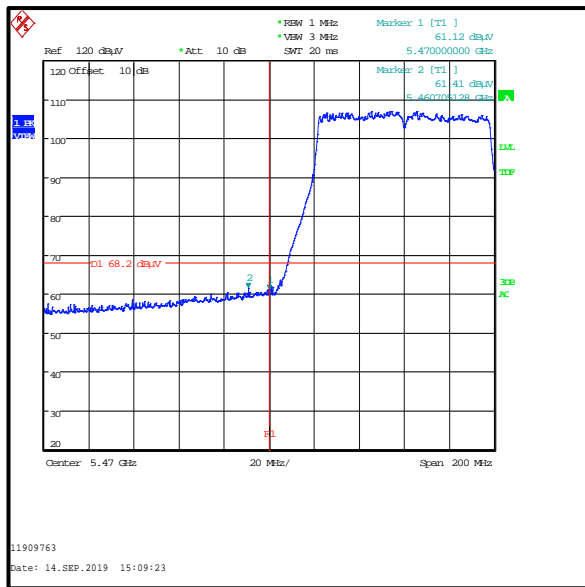
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

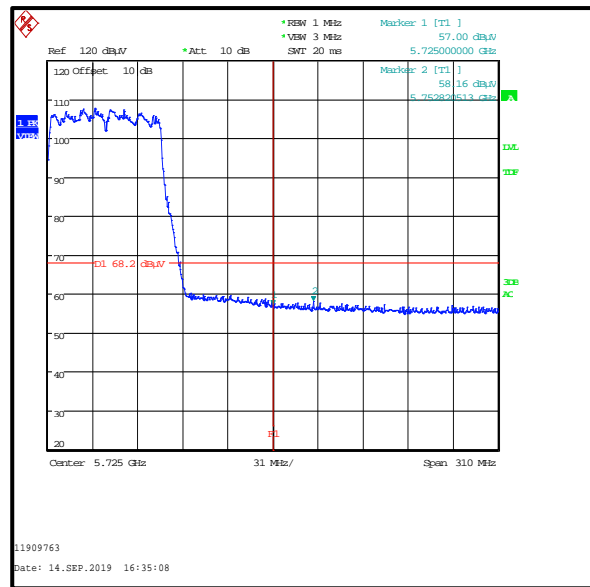
**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / QPSK / MCS1x1 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5460.705	-33.8	-27.0	6.8	Complied
5470	-34.1	-27.0	7.1	Complied
5725	-38.2	-27.0	11.2	Complied
5752.821	-37.0	-27.0	10.0	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5460.705	61.4	68.2	6.8	Complied
5470	61.1	68.2	7.1	Complied
5725	57.0	68.2	11.2	Complied
5752.821	58.2	68.2	10.0	Complied



Lower Band Edge



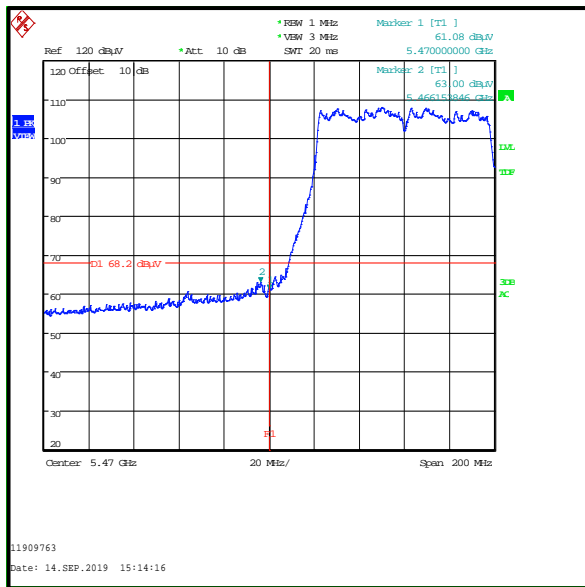
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

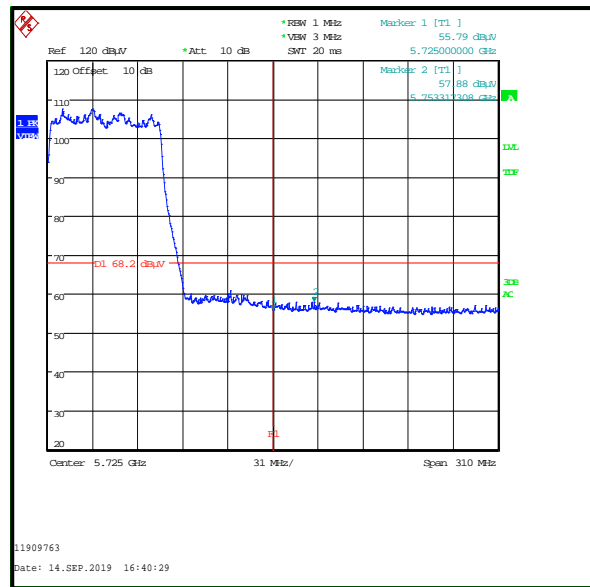
**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / QPSK / MCS2x1 / Port 1, 2 & 3 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5466.154	-32.2	-27.0	5.2	Complied
5470	-34.1	-27.0	7.1	Complied
5725	-39.4	-27.0	12.4	Complied
5753.317	-37.3	-27.0	10.3	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5466.154	63.0	68.2	5.2	Complied
5470	61.1	68.2	7.1	Complied
5725	55.8	68.2	12.4	Complied
5753.317	57.9	68.2	10.3	Complied



Lower Band Edge



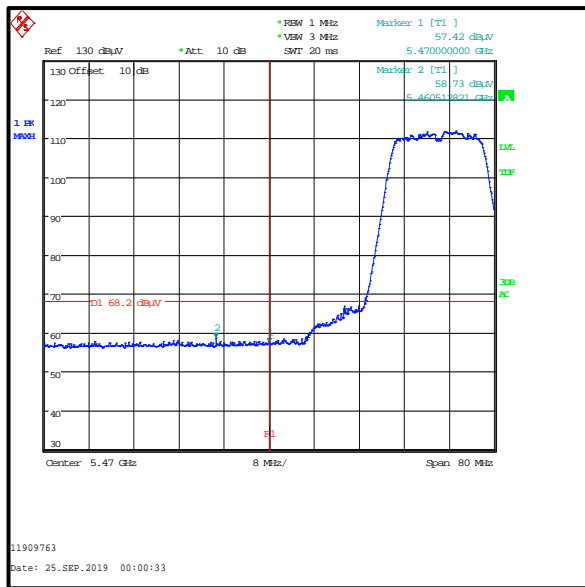
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (GHz band operation) (continued)**

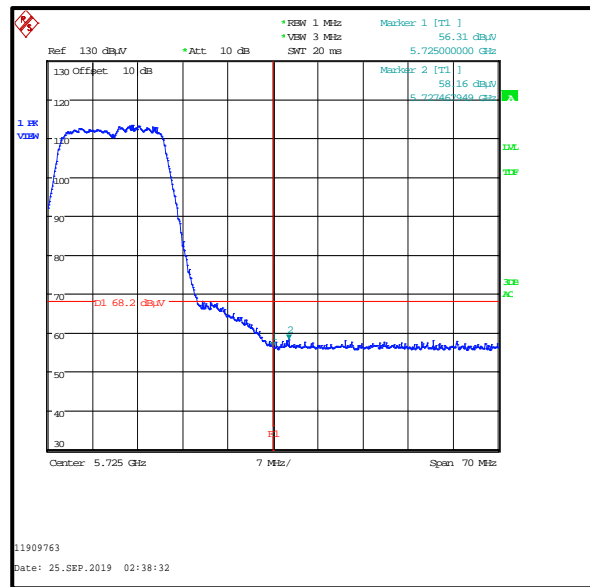
**Results: 802.11a / 20 MHz / MIMO / 4Tx CDD / QPSK / 12 Mbps / Port 1, 2, 3 & 4 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5460.513	-36.5	-27.0	9.5	Complied
5470	-37.8	-27.0	10.8	Complied
5725	-38.9	-27.0	11.9	Complied
5727.468	-37.0	-27.0	10.0	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5460.513	58.7	68.2	9.5	Complied
5470	57.4	68.2	10.8	Complied
5725	56.3	68.2	11.9	Complied
5727.468	58.2	68.2	10.0	Complied



**Lower Band Edge**



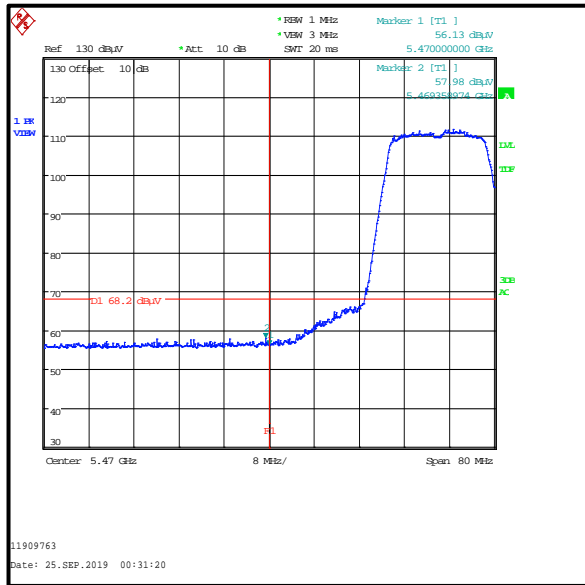
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

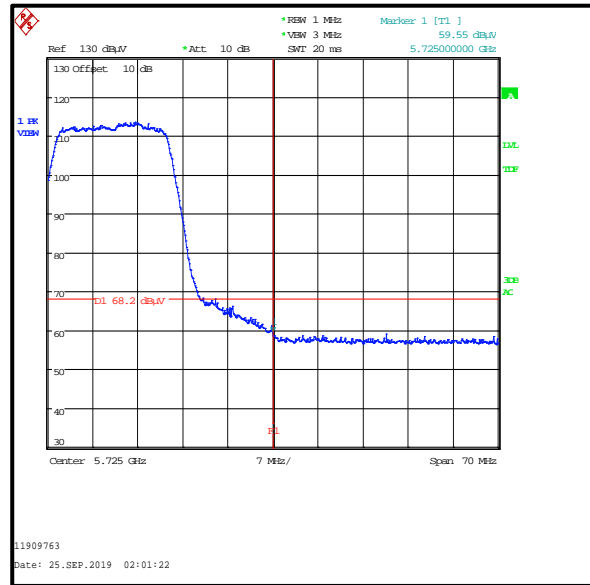
**Results: 802.11n / 20 MHz / MIMO / 4Tx CDD / QPSK / MCS1 / Port 1, 2, 3 & 4 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.359	-37.2	-27.0	10.2	Complied
5470	-39.1	-27.0	12.1	Complied
5725	-35.6	-27.0	8.6	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.359	58.0	68.2	10.2	Complied
5470	56.1	68.2	12.1	Complied
5725	59.6	68.2	8.6	Complied



Lower Band Edge



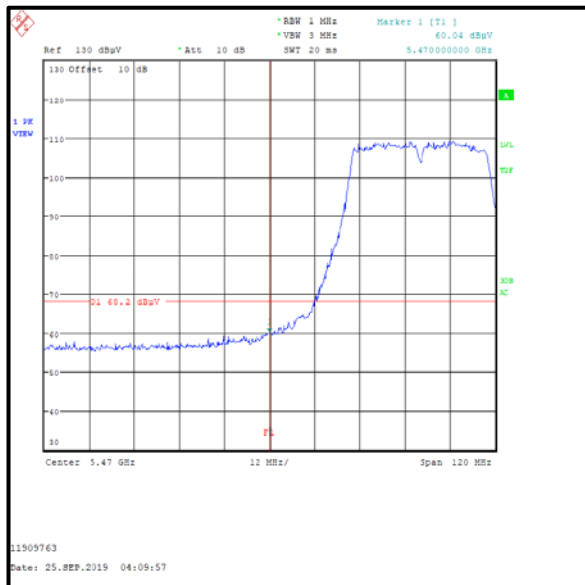
Upper Band Edge

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

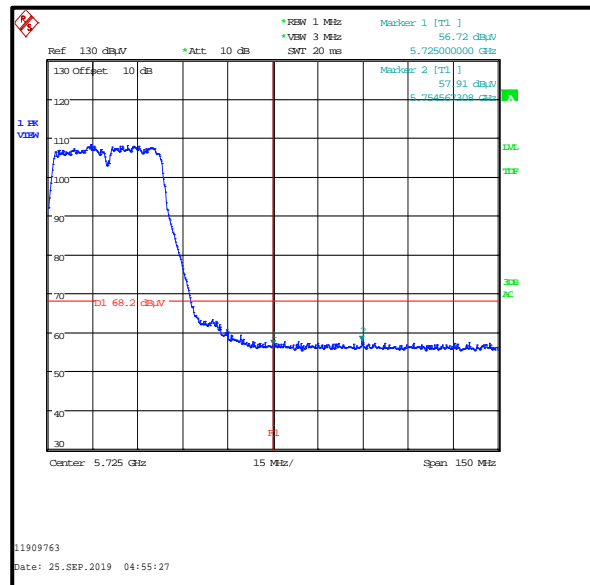
**Results: 802.11n / 40 MHz / MIMO / 4Tx CDD / 16-QAM / MCS3 / Port 1, 2, 3 & 4 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5470	-35.2	-27.0	8.2	Complied
5725	-38.5	-27.0	11.5	Complied
5754.567	-37.3	-27.0	10.3	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5470	60.0	68.2	8.2	Complied
5725	56.7	68.2	11.5	Complied
5754.567	57.9	68.2	10.3	Complied



**Lower Band Edge**



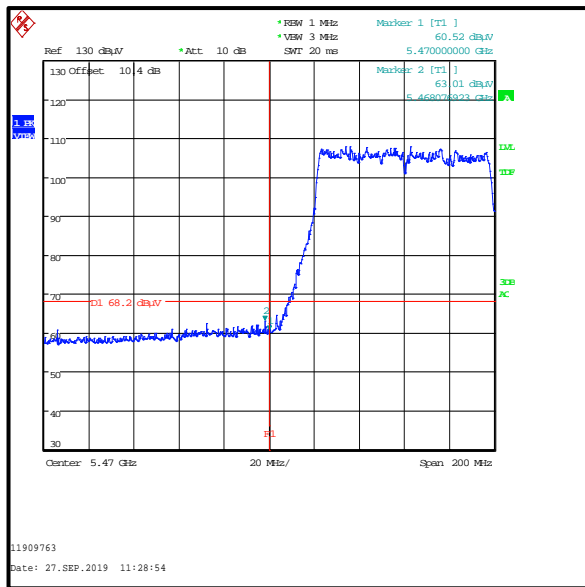
**Upper Band Edge**

**Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**

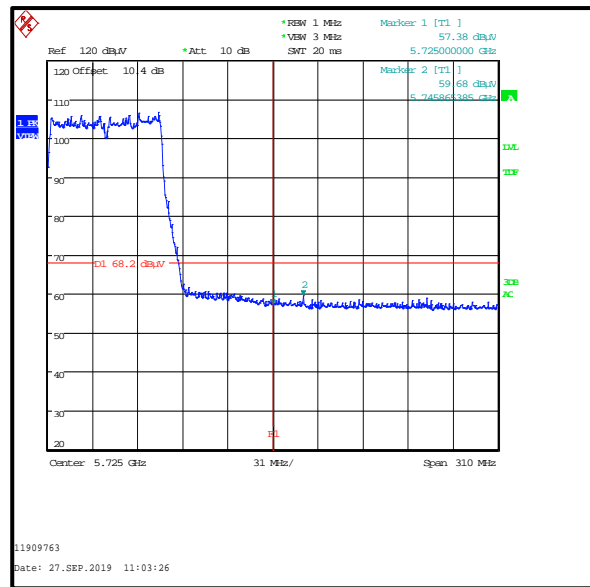
**Results: 802.11ac / 80 MHz / MIMO / 4Tx CDD / 16-QAM / MCS3x1 / Port 1, 2, 3 & 4 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.077	-32.2	-27.0	5.2	Complied
5470	-34.7	-27.0	7.7	Complied
5725	-37.8	-27.0	10.8	Complied
5745.865	-35.5	-27.0	8.5	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5468.077	63.0	68.2	5.2	Complied
5470	60.5	68.2	7.7	Complied
5725	57.4	68.2	10.8	Complied
5745.865	59.7	68.2	8.5	Complied



**Lower Band Edge**



**Upper Band Edge**



## **Appendix 1**

### **Directional Antenna Gain Calculations – 4Tx CDD / Output Power Measurements**

For 4Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains.  $G_{ANT}$  was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for  $N_{ANT}=4$ :

$$Directional\ gain = G_{ANT} + Array\ Gain = 9.0\ dBi + 0\ dB = 9.0\ dBi$$

### **Directional Antenna Gain Calculations – 4Tx CDD / PSD Measurements**

For 4Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for  $N_{SS}=1$ ,  $N_{ANT}=4$ ,  $G_1 = G_{ANTENNA\ 1} = 9.0\ dBi$ ,  $G_2 = G_{ANTENNA\ 2} = 9.0\ dBi$ ,  $G_{ANTENNA\ 3} = 9.0\ dBi$ ,  $G_{ANTENNA\ 4} = 9.0\ dBi$ :

$$\begin{aligned} Directional\ Gain &= 10 \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[ \frac{\sum_{j=1}^1 \left( \sum_{k=1}^4 g_{j,k} \right)^2}{4} \right] \\ &= 10 \log \left[ \frac{(g_{1,1} + g_{1,2} + g_{1,3} + g_{1,4})^2}{4} \right] = 10 \log \left[ \frac{\left( 10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + 10^{\frac{G_3}{20}} + 10^{\frac{G_4}{20}} \right)^2}{4} \right] \\ &= 10 \log \left[ \frac{\left( 10^{\frac{9.0}{20}} + 10^{\frac{9.0}{20}} + 10^{\frac{9.0}{20}} + 10^{\frac{9.0}{20}} \right)^2}{4} \right] = 15.0\ dBi \end{aligned}$$

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