

### 9.4.4. 802.11ax HE40 MODE 1TX IN THE 5.6GHz BAND (FCC+IC)

#### 1TX Antenna A OFDMA MODE: SU, Single User

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

#### Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
126	5630	42.7000	37.5110	6.40
High	5670	42.3000	37.5650	6.40
142	5710	36.4000	33.7390	6.40

#### Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
126	5630	23.60	24.00	30.00	23.60	10.60	11.00	10.60
High	5670	23.60	24.00	30.00	23.60	10.60	11.00	10.60
142	5710	23.60	24.00	30.00	23.60	10.60	11.00	10.60

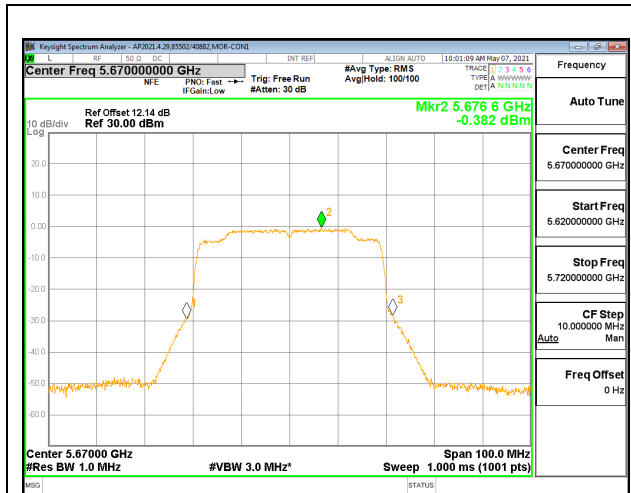
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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#### Output Power Results

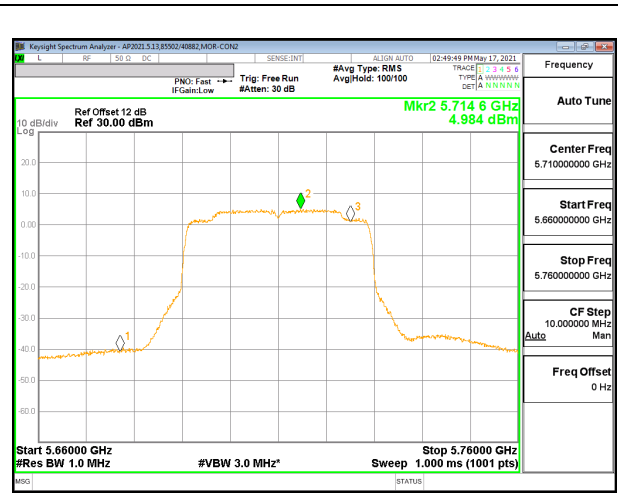
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
126	5630	18.000	18.00	23.60	-5.60
High	5670	15.090	15.09	23.60	-8.51
142	5710	18.160	18.16	23.60	-5.44

#### PSD Results

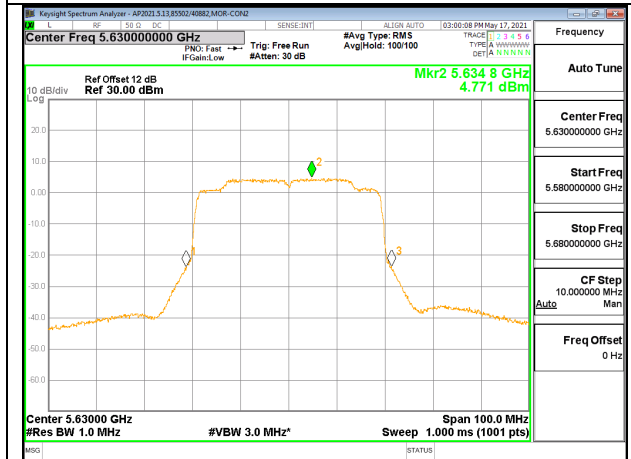
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
126	5630	4.771	4.771	10.60	-5.83
High	5670	-0.382	-0.382	10.60	-10.98
142	5710	4.984	4.984	10.60	-5.62



**HIGH CHANNEL**



**CHANNEL 142**



**CHANNEL 126**

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**1TX Antenna B OFDMA MODE: SU, Single User**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
126	5630	42.2000	37.5600	6.90
High	5670	43.5000	37.5300	6.90
142	5710	36.5000	33.6100	6.90

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
126	5630	23.10	24.00	30.00	23.10	10.10	11.00	10.10
High	5670	23.10	24.00	30.00	23.10	10.10	11.00	10.10
142	5710	23.10	24.00	30.00	23.10	10.10	11.00	10.10

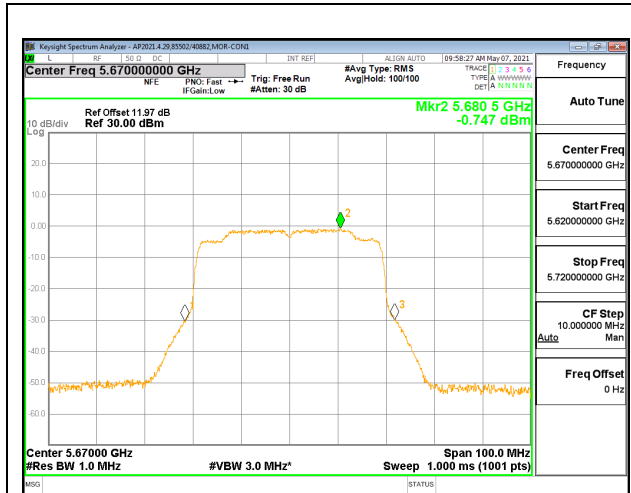
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

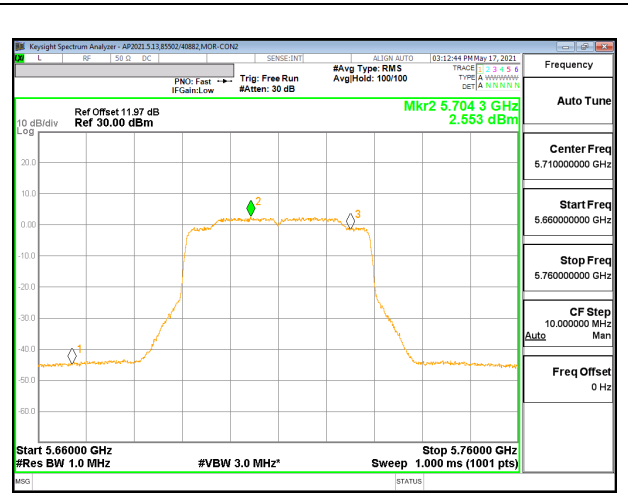
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
126	5630	16.050	16.05	23.10	-7.05
High	5670	14.950	14.95	23.10	-8.15
142	5710	15.890	15.89	23.10	-7.21

**PSD Results**

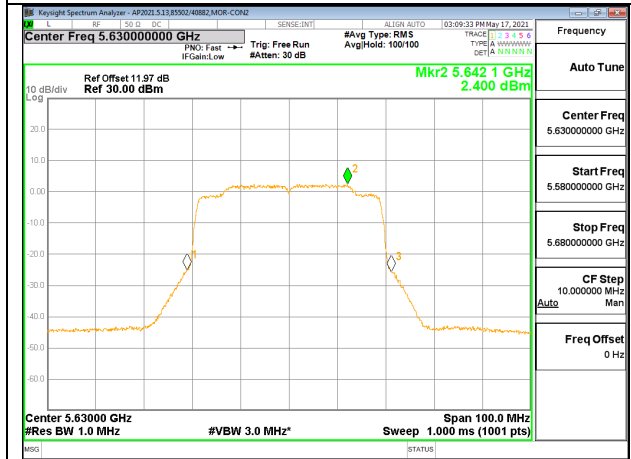
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
126	5630	2.400	2.400	10.10	-7.70
High	5670	-0.747	-0.747	10.10	-10.85
142	5710	2.553	2.553	10.10	-7.55



**HIGH CHANNEL**



**CHANNEL 142**



**CHANNEL 126**

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### 9.4.5. 802.11ax HE80 MODE 2TX IN THE 5.6GHz BAND (FCC+IC)

#### 2TX Antenna A + Antenna B SDM OFDMA MODE: SU, Single User

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-05

#### Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	87.4000	76.2120	6.66	6.66
High	5610	85.0000	76.6720	6.66	6.66
138	5690	77.4000	68.1060	6.66	6.66

#### Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	24.00	30.00	23.34	10.34	11.00	10.34
High	5610	23.34	24.00	30.00	23.34	10.34	11.00	10.34
138	5690	23.34	24.00	30.00	23.34	10.34	11.00	10.34

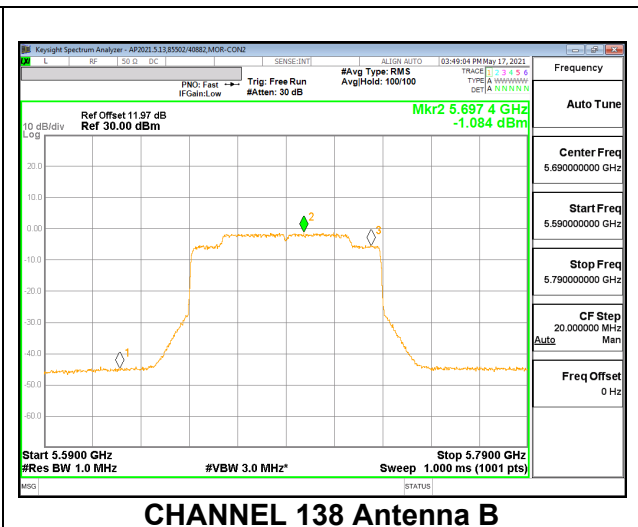
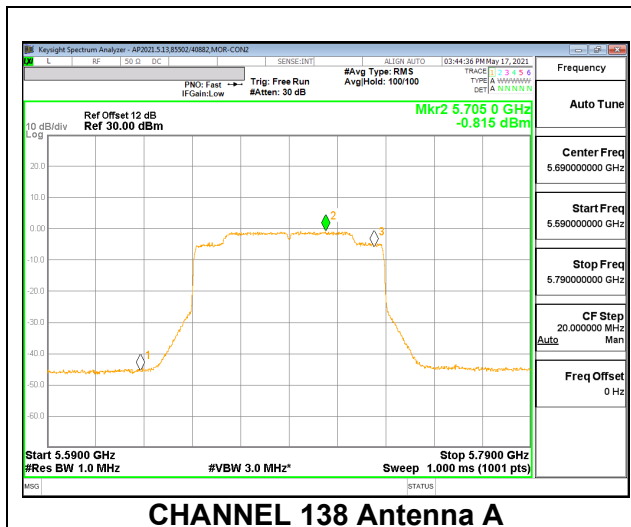
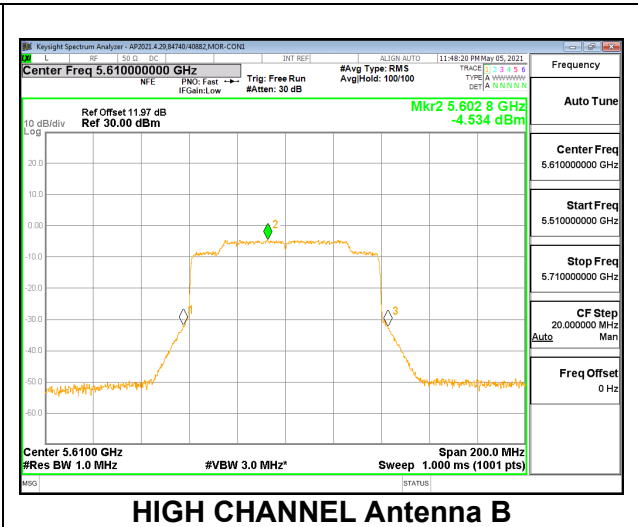
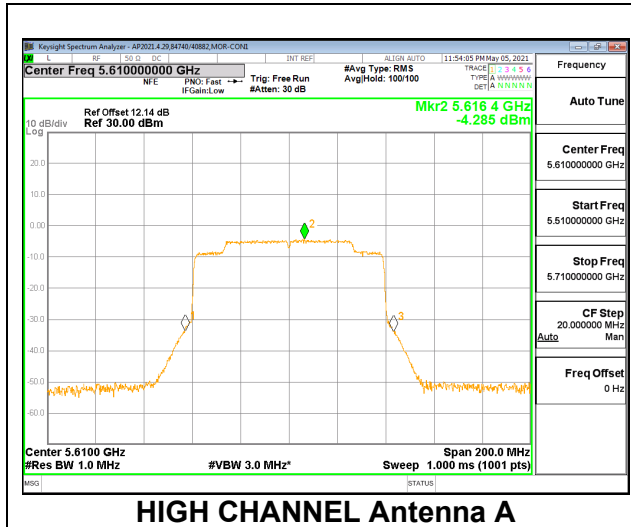
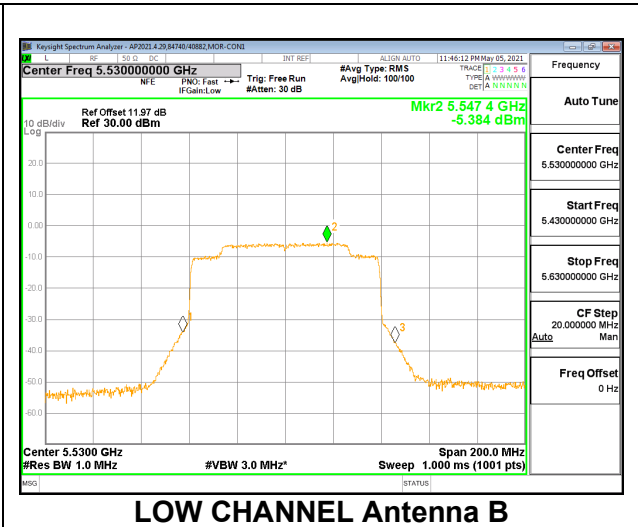
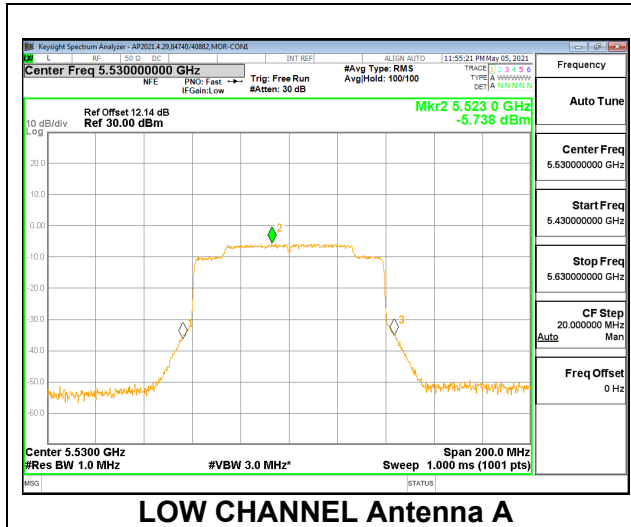
<b>Duty Cycle CF (dB)</b>	0.12	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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#### Output Power Results

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	13.05	13.32	16.20	23.34	-7.14
High	5610	14.25	14.24	17.26	23.34	-6.08
138	5690	14.28	13.91	17.23	23.34	-6.11

#### PSD Results

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	-5.738	-5.384	-2.427	10.34	-12.77
High	5610	-4.285	-4.534	-1.277	10.34	-11.62
138	5690	-0.815	-1.084	2.183	10.34	-8.16





**2TX Antenna A + Antenna B SDM OFDMA MODE: 484-Tones, RU Index 65**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-06

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	43.0000	37.0230	6.66	6.66
High	5610	42.4000	36.9880	6.66	6.66
138	5690	43.0000	37.2430	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	24.00	30.00	23.34	10.34	11.00	10.34
High	5610	23.34	24.00	30.00	23.34	10.34	11.00	10.34
138	5690	23.34	24.00	30.00	23.34	10.34	11.00	10.34

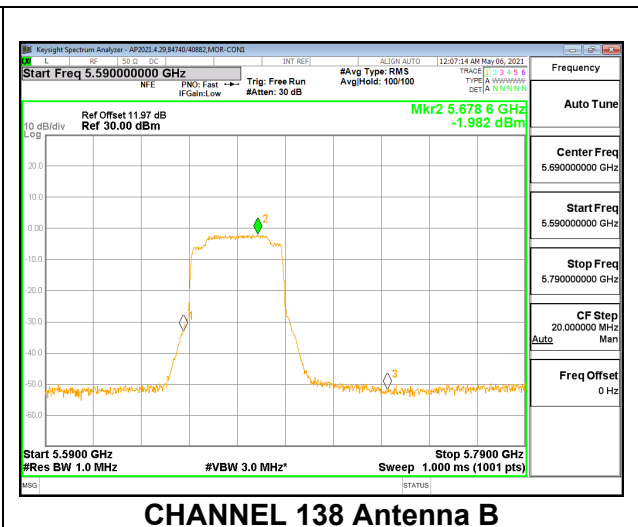
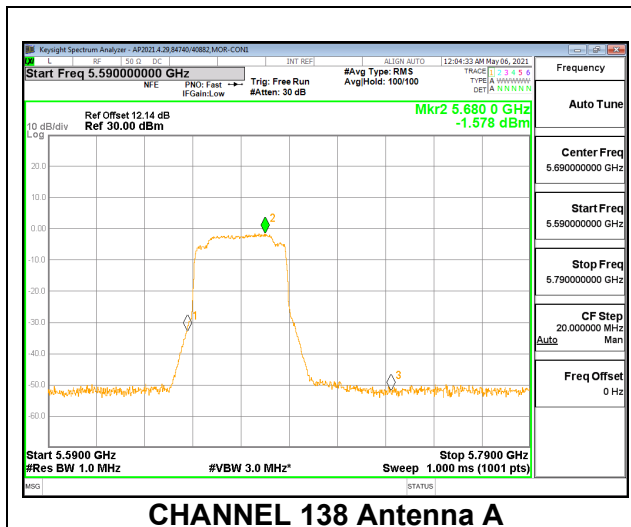
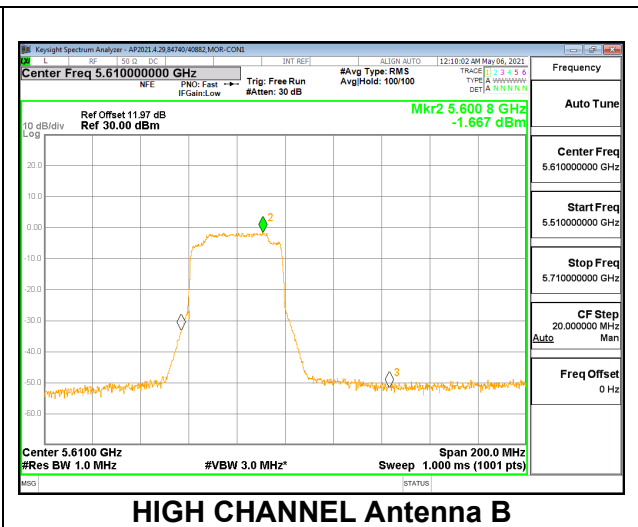
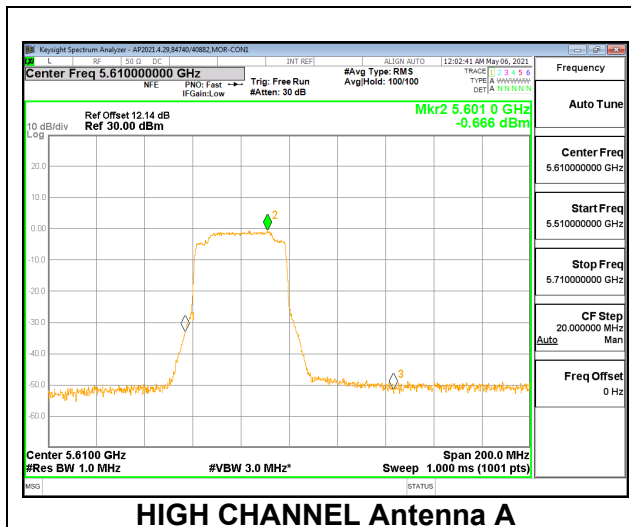
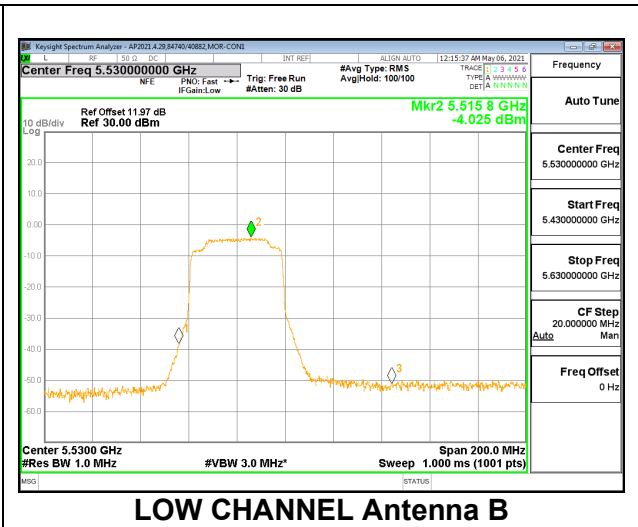
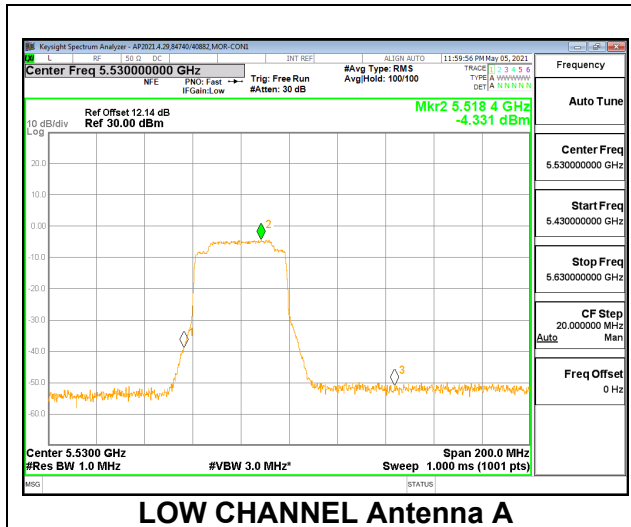
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	11.99	12.23	15.12	23.34	-8.22
High	5610	15.22	15.18	18.21	23.34	-5.13
138	5690	14.12	13.78	16.96	23.34	-6.38

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	-4.331	-4.025	-1.165	10.34	-11.51
High	5610	-0.666	-1.667	1.873	10.34	-8.47
138	5690	-1.578	-1.982	1.235	10.34	-9.11



**2TX Antenna A + Antenna B SDM OFDMA MODE: 484-Tones, RU Index 66**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-06

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	42.4000	36.9600	6.66	6.66
High	5610	42.6000	37.1530	6.66	6.66
138	5690	36.4000	33.7120	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	24.00	30.00	23.34	10.34	11.00	10.34
High	5610	23.34	24.00	30.00	23.34	10.34	11.00	10.34
138	5690	23.34	24.00	30.00	23.34	10.34	11.00	10.34

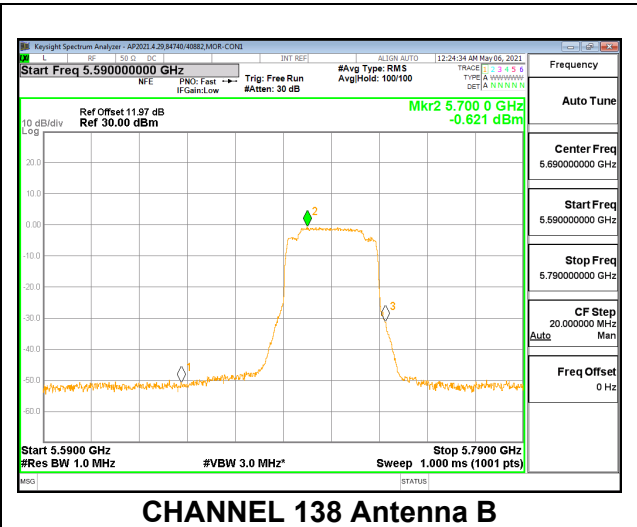
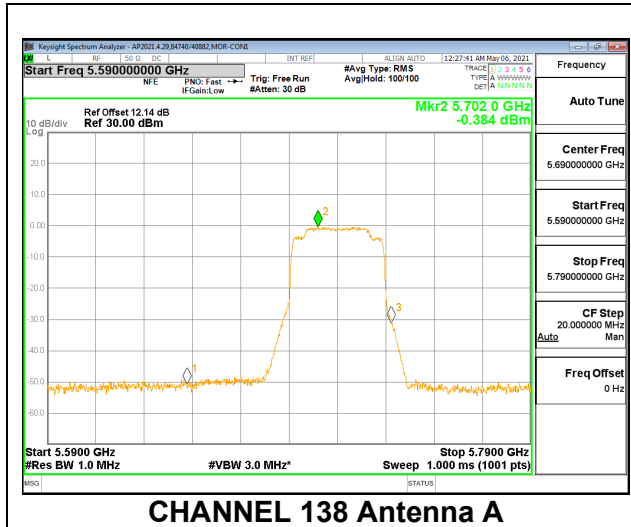
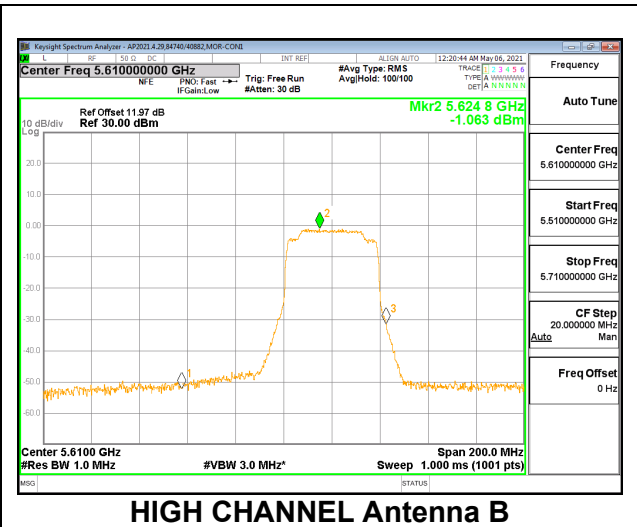
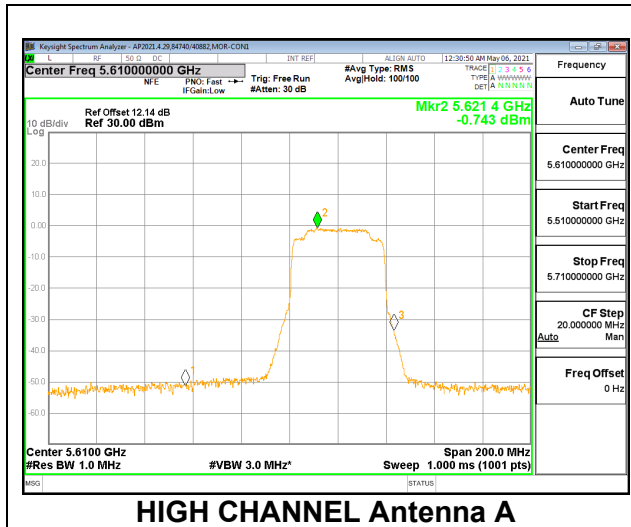
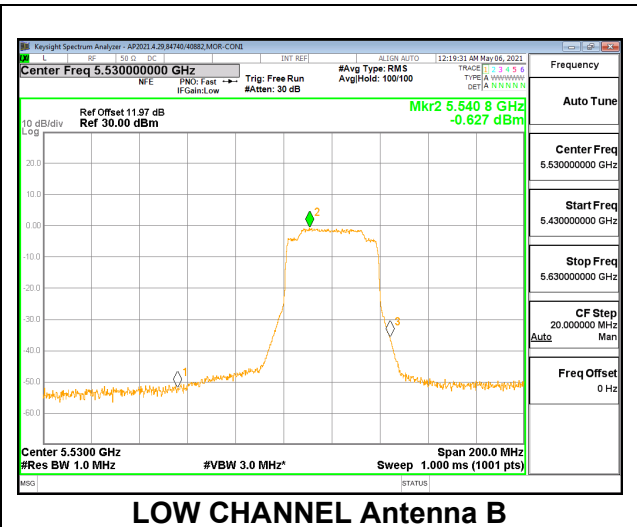
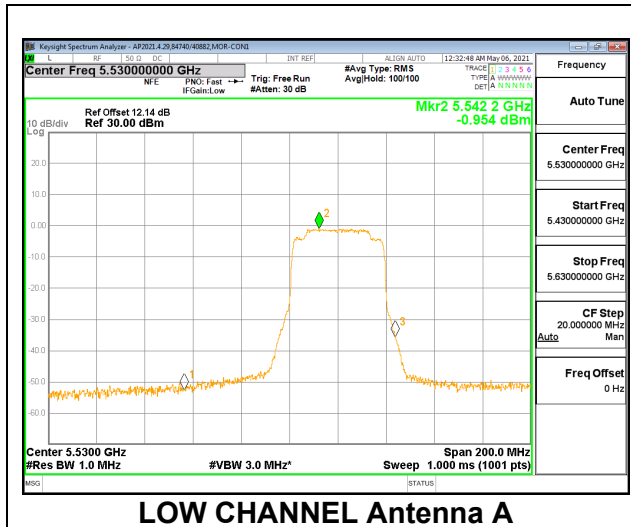
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	15.15	15.08	18.13	23.34	-5.21
High	5610	15.07	14.93	18.01	23.34	-5.33
138	5690	15.28	14.76	18.04	23.34	-5.30

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-0.954	-0.627	2.223	10.34	-8.12
High	5610	-0.743	-1.063	2.110	10.34	-8.23
138	5690	-0.384	-0.621	2.509	10.34	-7.83



**2TX Antenna A + Antenna B SDM OFDMA MODE: 242-Tones, RU Index 61**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	24.0000	18.9120	6.66	6.66
High	5610	23.8000	18.6020	6.66	6.66
138	5690	24.0000	18.6670	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5530	23.34	23.77	29.77	23.11	10.34	11.00	10.34
High	5610	23.34	23.70	29.70	23.04	10.34	11.00	10.34
138	5690	23.34	23.71	29.71	23.05	10.34	11.00	10.34

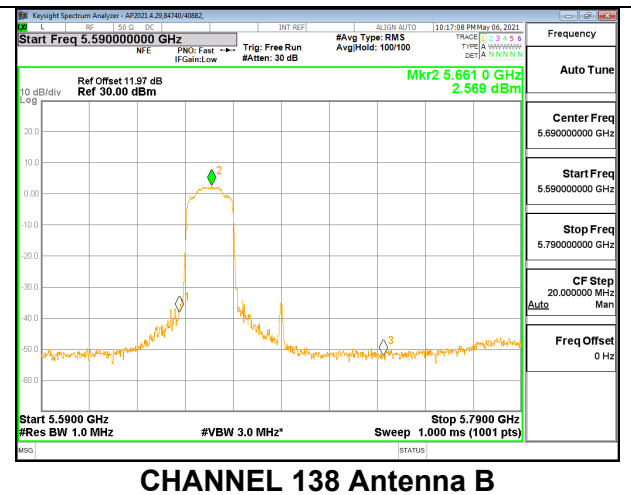
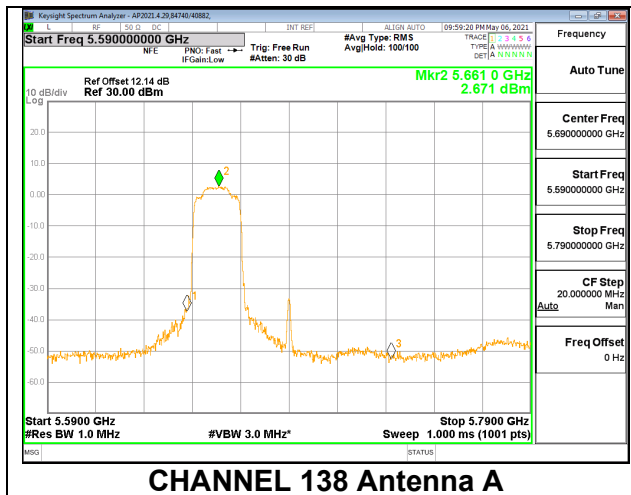
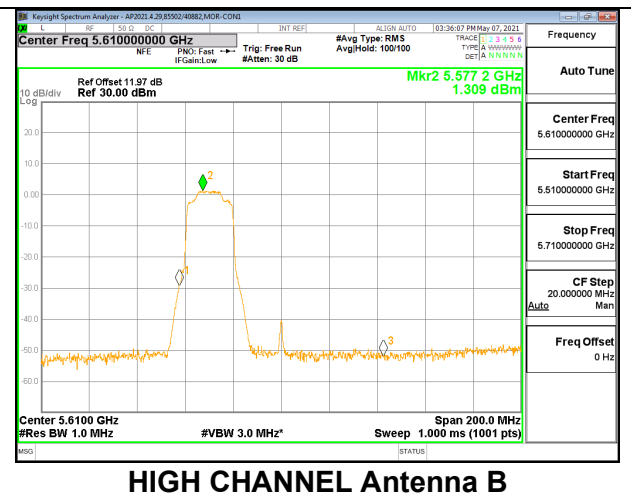
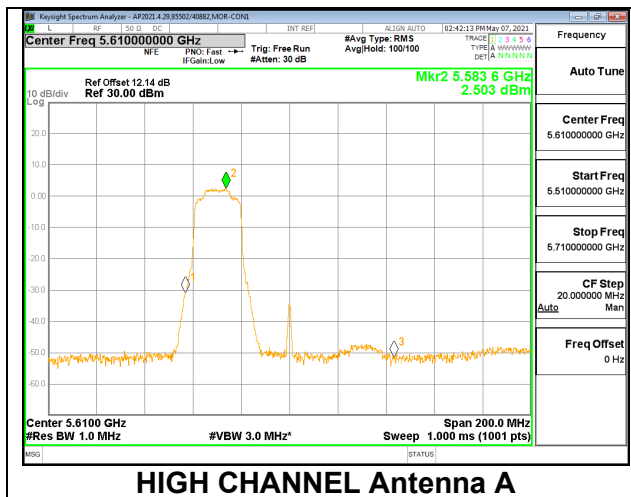
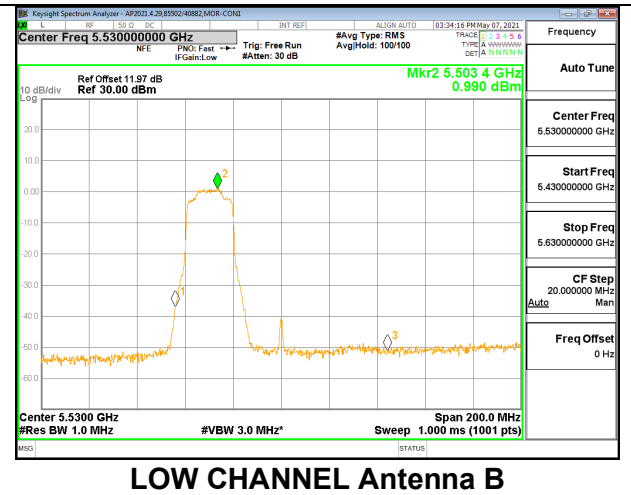
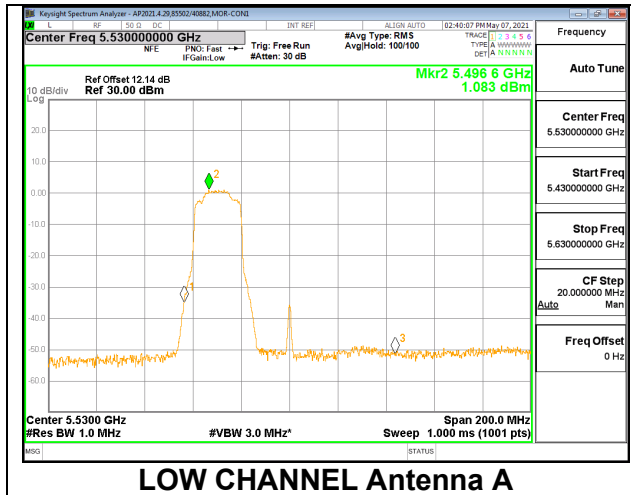
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.92	14.28	17.11	23.11	-5.99
High	5610	15.19	15.30	18.26	23.04	-4.78
138	5690	15.44	15.12	18.29	23.05	-4.76

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/1MHz)	Antenna B Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5530	1.083	0.990	4.047	10.34	-6.29
High	5610	2.503	1.309	4.957	10.34	-5.38
138	5690	2.671	2.569	5.631	10.34	-4.71



**2TX Antenna A + Antenna B SDM OFDMA MODE: 242-Tones, RU Index 62**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	41.0000	21.9040	6.66	6.66
High	5610	41.0000	22.7790	6.66	6.66
138	5690	41.6000	20.7950	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5530	23.34	24.00	30.00	23.34	10.34	11.00	10.34
High	5610	23.34	24.00	30.00	23.34	10.34	11.00	10.34
138	5690	23.34	24.00	30.00	23.34	10.34	11.00	10.34

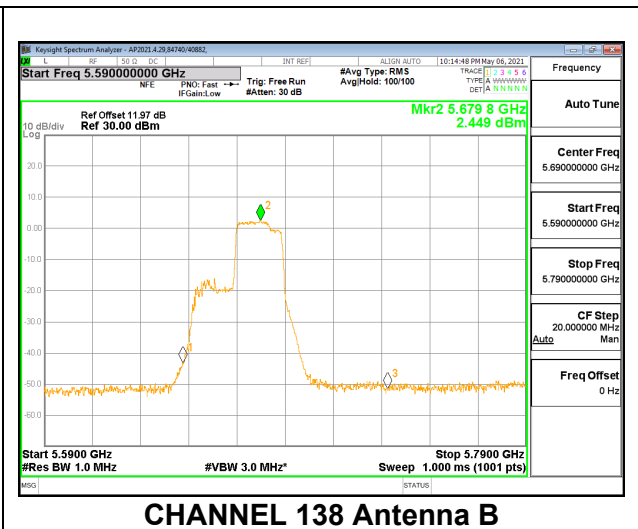
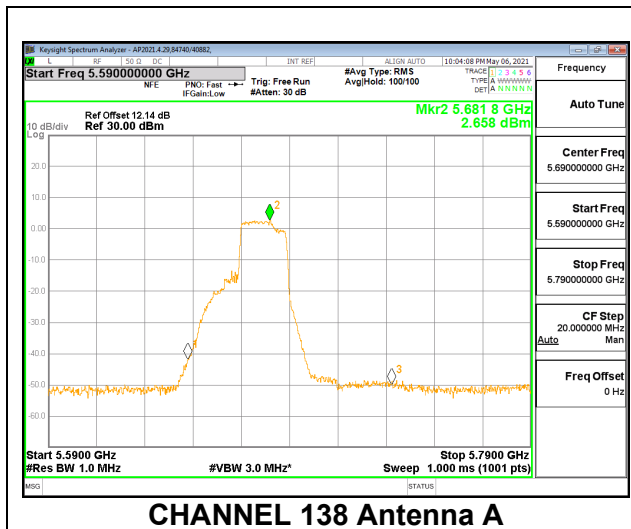
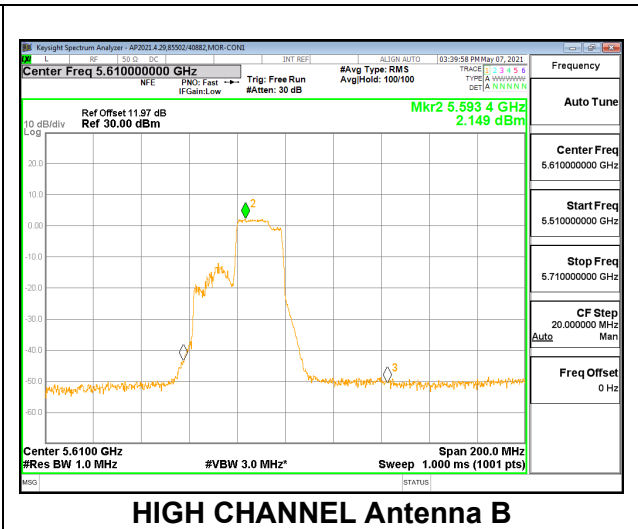
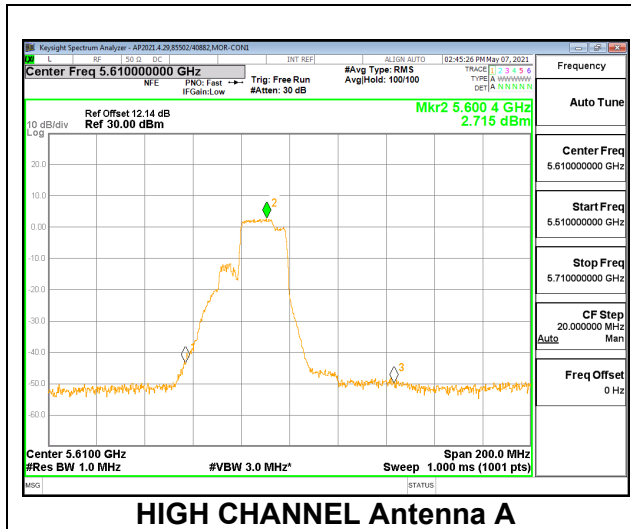
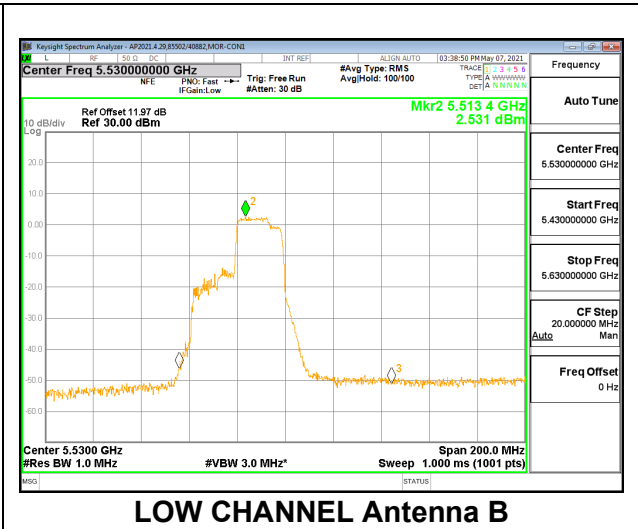
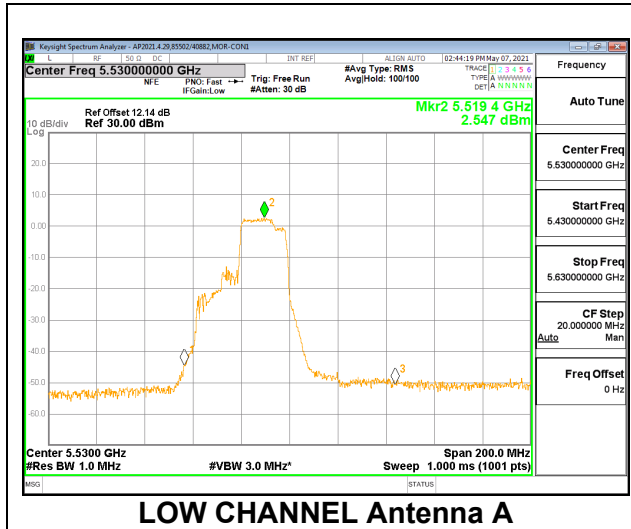
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	15.56	15.84	18.71	23.34	-4.63
High	5610	15.84	15.81	18.84	23.34	-4.50
138	5690	15.75	15.37	18.57	23.34	-4.77

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/1MHz)	Antenna B Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5530	2.547	2.531	5.549	10.34	-4.79
High	5610	2.715	2.149	5.452	10.34	-4.89
138	5690	2.658	2.449	5.565	10.34	-4.77





**2TX Antenna A + Antenna B SDM OFDMA MODE: 242-Tones, RU Index 63**

<b>Test Engineer:</b>	85502/40882
<b>Test Date:</b>	2021-05-14

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	41.6000	24.6890	6.66	6.66
High	5610	41.0000	25.6580	6.66	6.66
138	5690	36.2000	24.7910	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	24.00	30.00	23.34	10.34	11.00	10.34
High	5610	23.34	24.00	30.00	23.34	10.34	11.00	10.34
138	5690	23.34	24.00	30.00	23.34	10.34	11.00	10.34

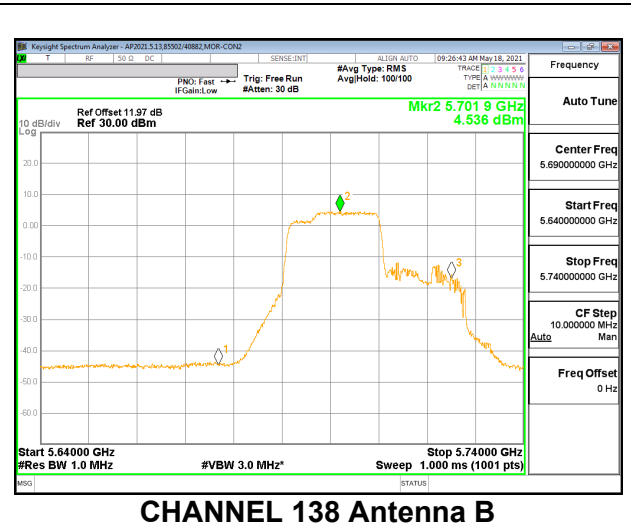
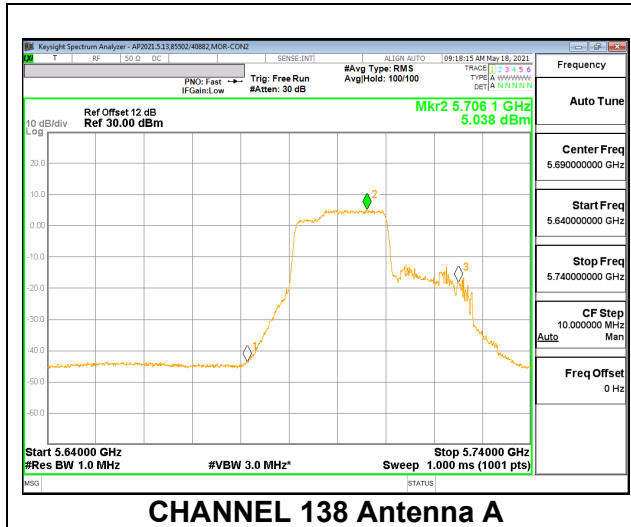
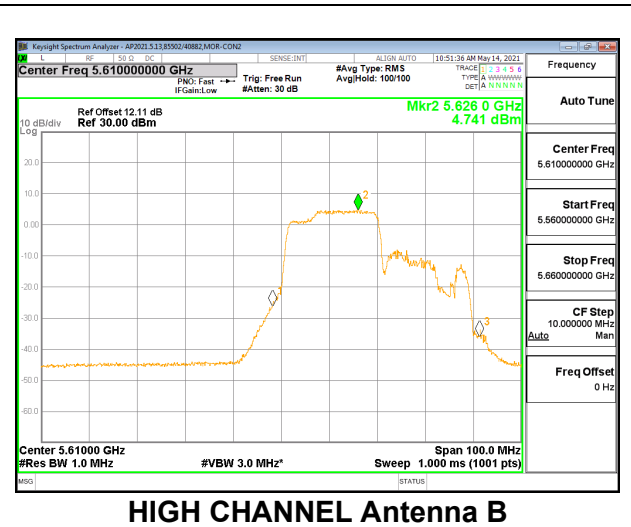
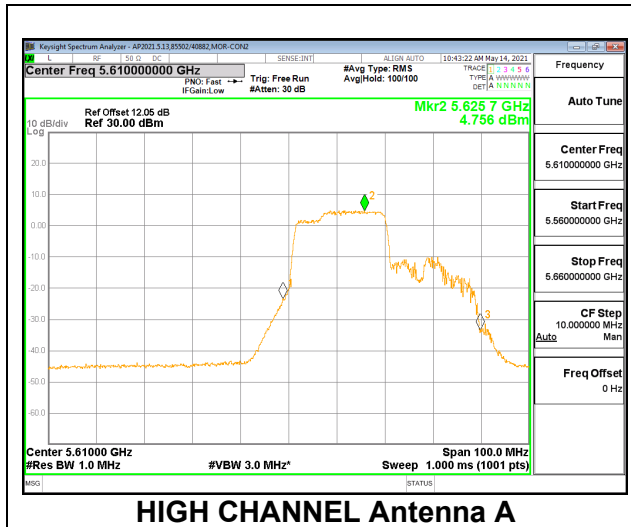
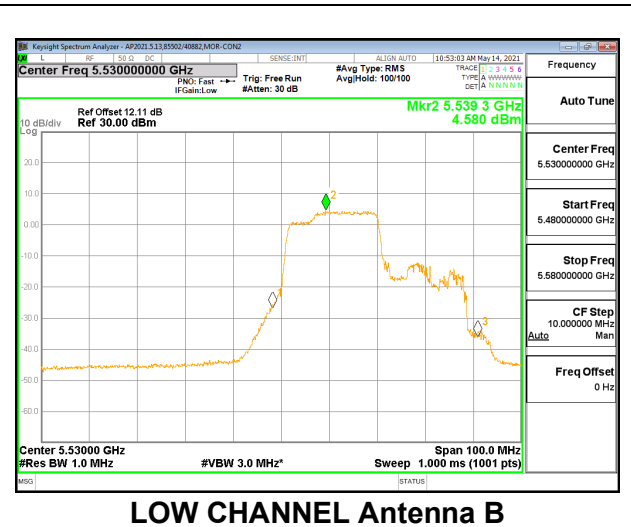
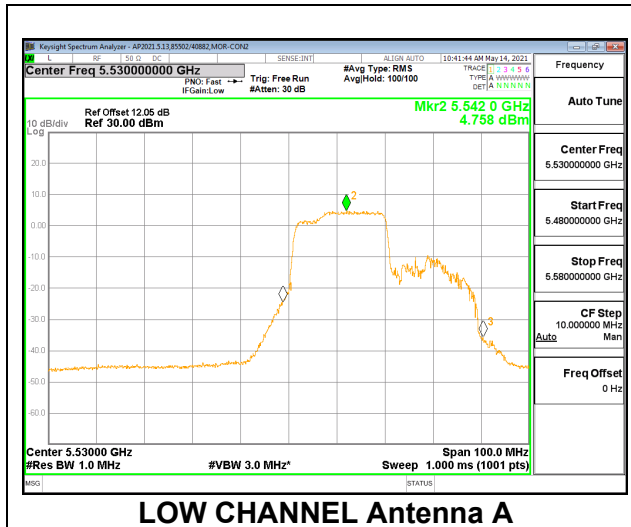
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	15.64	15.56	18.61	23.34	-4.73
High	5610	15.65	15.47	18.57	23.34	-4.77
138	5690	14.75	14.12	17.46	23.34	-5.88

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	4.758	4.580	7.680	10.34	-2.66
High	5610	4.756	4.741	7.759	10.34	-2.58
138	5690	5.038	4.536	7.805	10.34	-2.54



**2TX Antenna A + Antenna B SDM OFDMA MODE: 242-Tones, RU Index 64**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	24.0000	18.7290	6.66	6.66
High	5610	23.8000	18.8540	6.66	6.66
138	5690	17.2000	14.3665	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	23.73	29.73	23.07	10.34	11.00	10.34
High	5610	23.34	23.75	29.75	23.09	10.34	11.00	10.34
138	5690	22.70	22.57	28.57	21.91	10.34	11.00	10.34

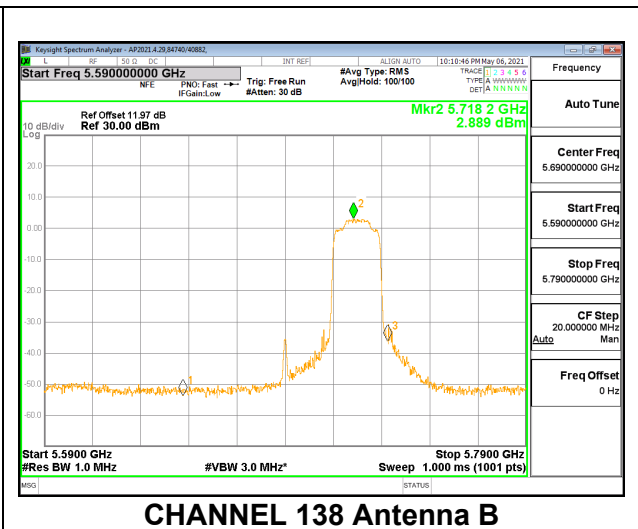
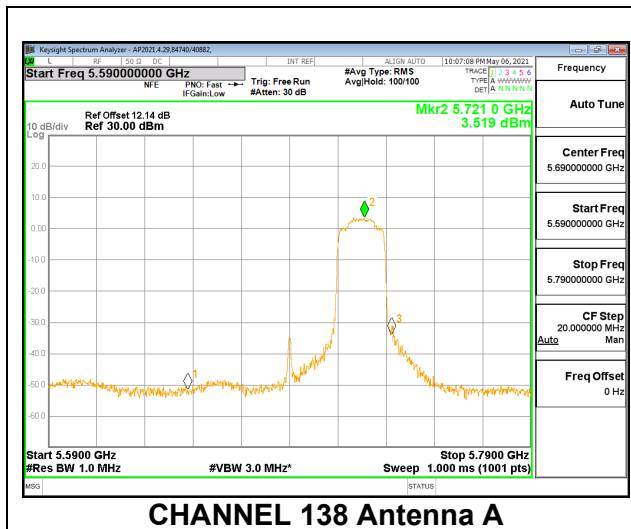
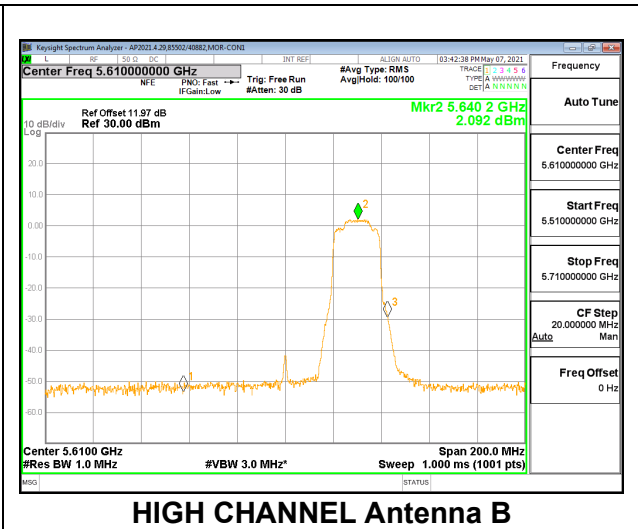
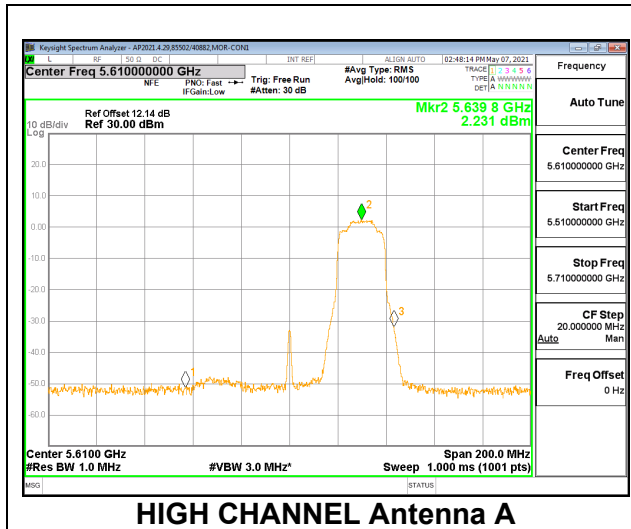
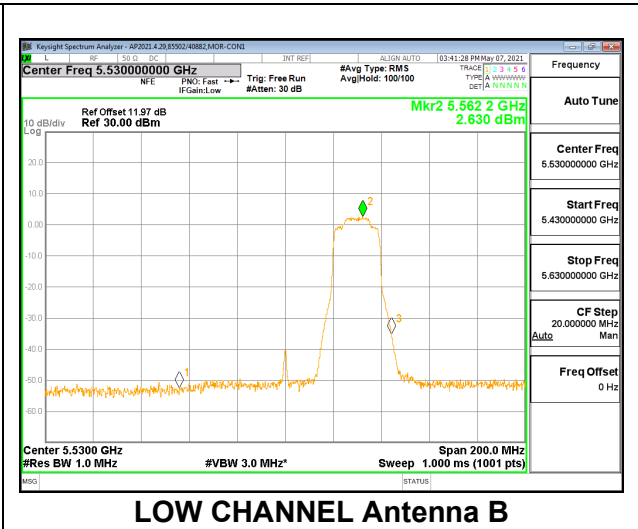
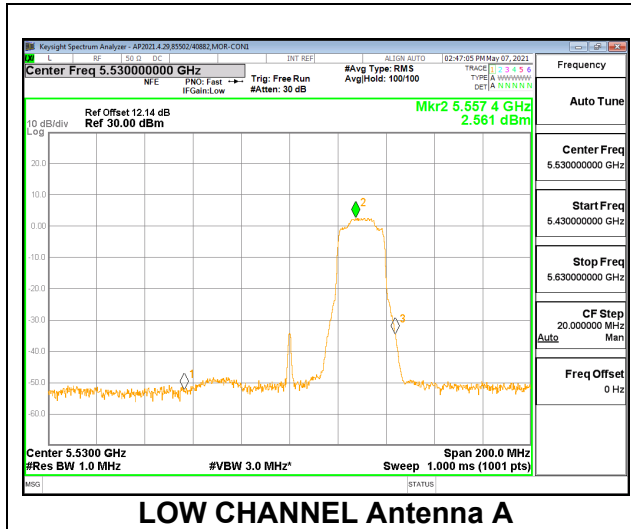
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	15.18	15.24	18.22	23.07	-4.84
High	5610	14.90	14.81	17.87	23.09	-5.23
138	5690	15.60	15.19	18.41	21.91	-3.50

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	2.561	2.630	5.606	10.34	-4.73
High	5610	2.231	2.092	5.172	10.34	-5.17
138	5690	3.519	2.889	6.226	10.34	-4.11



**2TX Antenna A + Antenna B SDM OFDMA MODE: 106-Tones, RU Index 53**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	22.0000	8.5276	6.66	6.66
High	5610	22.2000	8.4445	6.66	6.66
138	5690	22.6000	8.1134	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	20.31	26.31	19.65	10.34	11.00	10.34
High	5610	23.34	20.27	26.27	19.61	10.34	11.00	10.34
138	5690	23.34	20.09	26.09	19.43	10.34	11.00	10.34

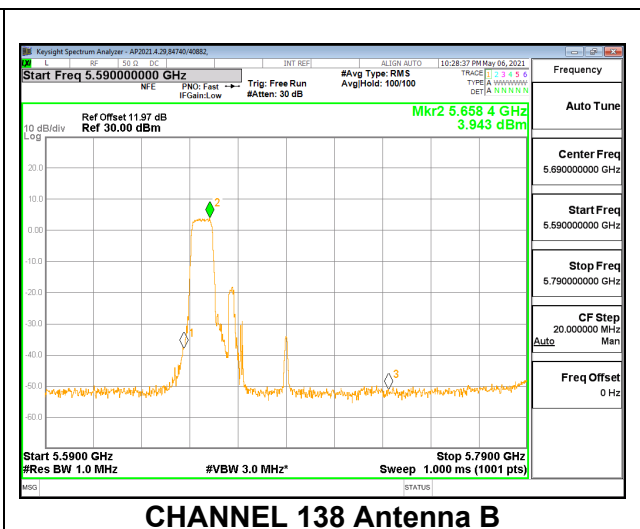
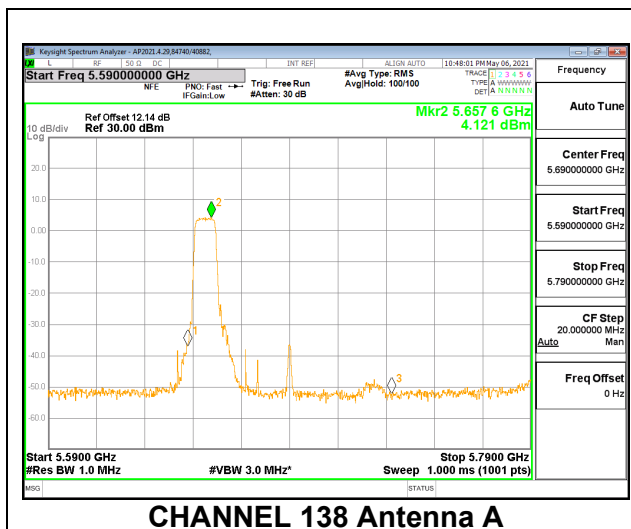
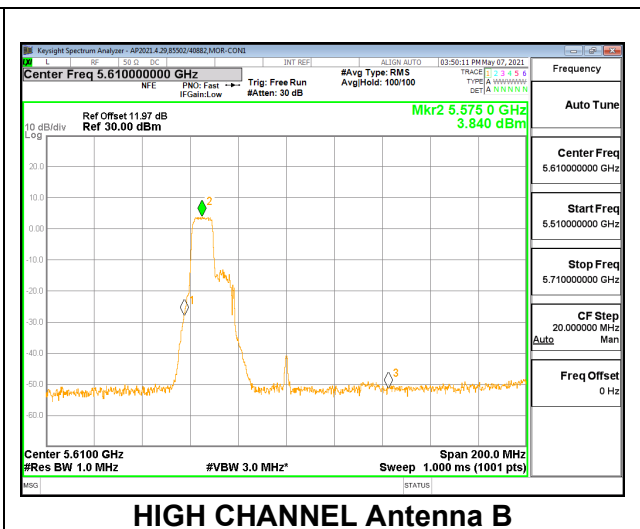
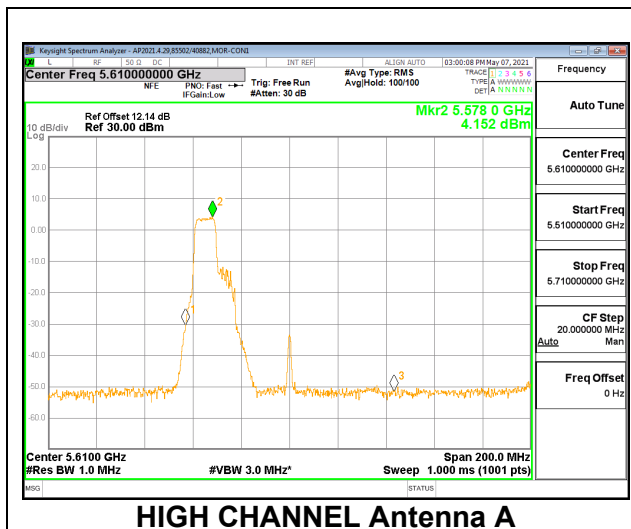
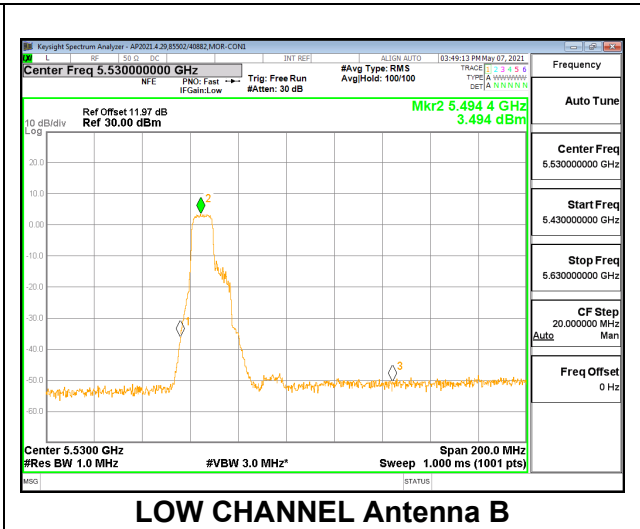
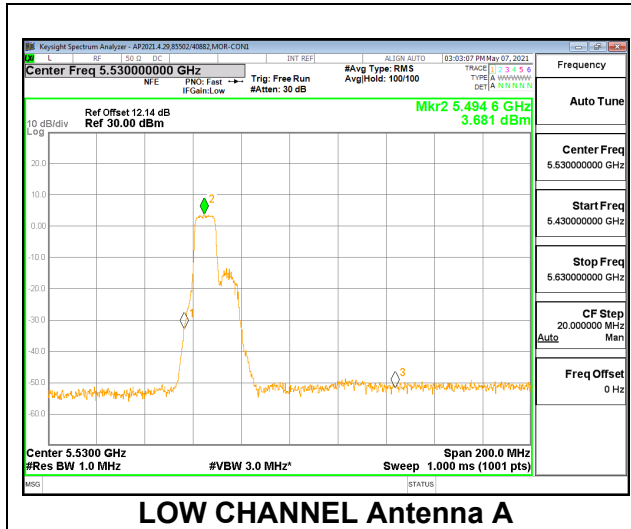
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	14.10	14.24	17.18	19.65	-2.47
High	5610	14.17	14.36	17.28	19.61	-2.33
138	5690	14.49	14.14	17.33	19.43	-2.10

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	3.681	3.494	6.599	10.34	-3.74
High	5610	4.152	3.840	7.009	10.34	-3.33
138	5690	4.121	3.943	7.043	10.34	-3.30



**2TX Antenna A + Antenna B SDM OFDMA MODE: 106-Tones, RU Index 56**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	22.0000	8.4656	6.66	6.66
High	5610	23.4000	8.2763	6.66	6.66
138	5690	21.4000	8.4090	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	20.28	26.28	19.62	10.34	11.00	10.34
High	5610	23.34	20.18	26.18	19.52	10.34	11.00	10.34
138	5690	23.34	20.25	26.25	19.59	10.34	11.00	10.34

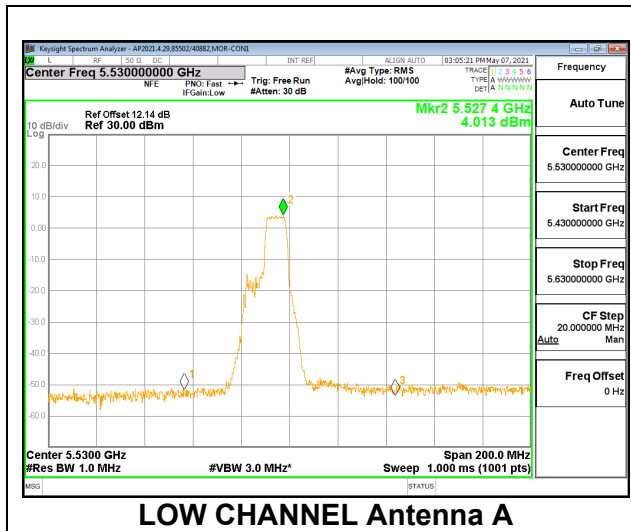
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

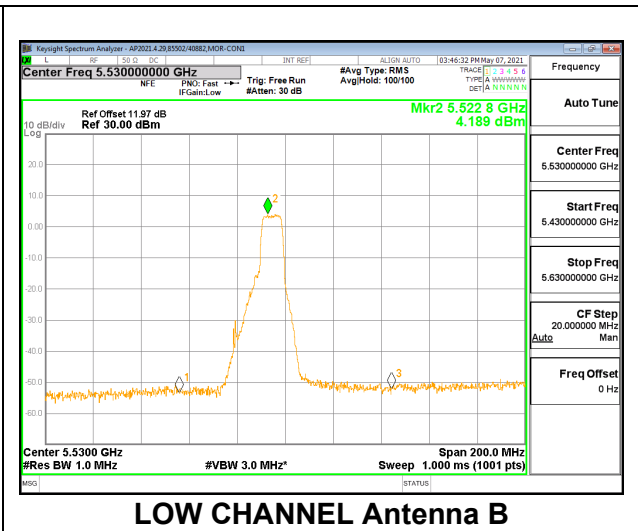
Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	14.24	14.46	17.36	19.62	-2.25
High	5610	14.38	14.33	17.37	19.52	-2.15
138	5690	14.72	14.41	17.58	19.59	-2.01

**PSD Results**

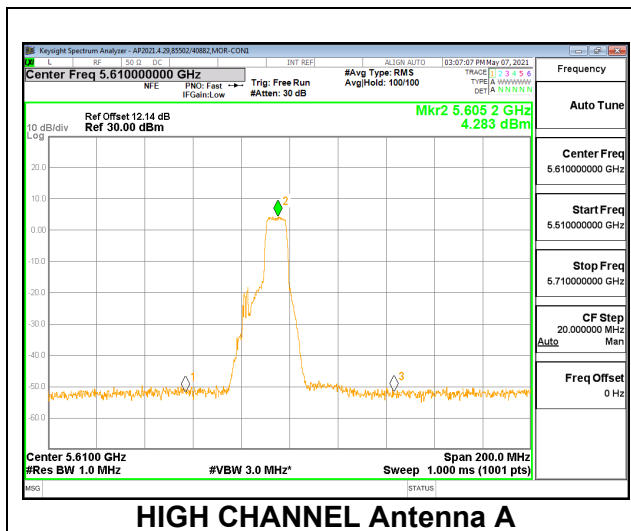
Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	4.013	4.189	7.112	10.34	-3.23
High	5610	4.283	3.844	7.079	10.34	-3.26
138	5690	4.802	4.462	7.646	10.34	-2.69



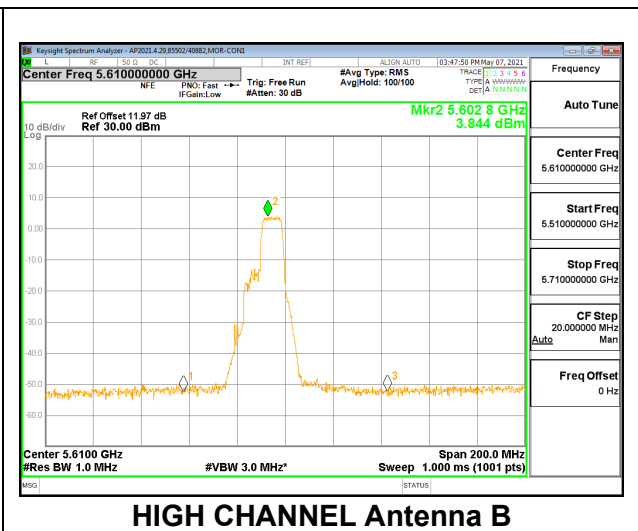
LOW CHANNEL Antenna A



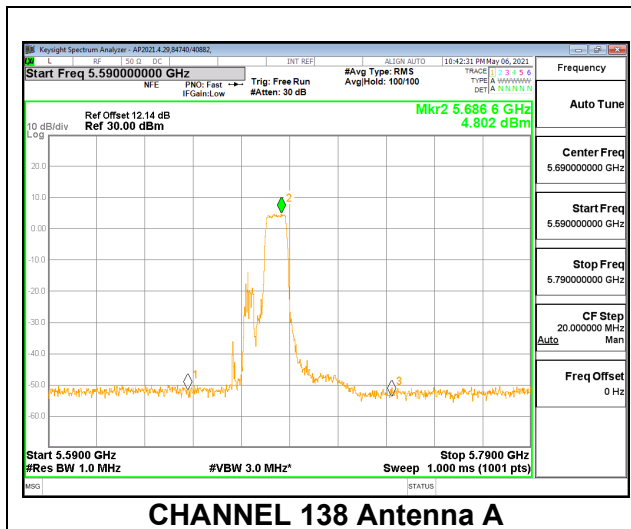
LOW CHANNEL Antenna B



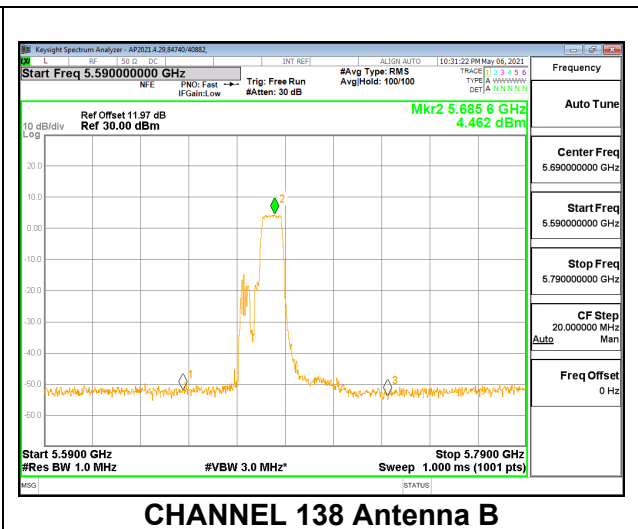
HIGH CHANNEL Antenna A



HIGH CHANNEL Antenna B



CHANNEL 138 Antenna A



CHANNEL 138 Antenna B



**2TX Antenna A + Antenna B SDM OFDMA MODE: 106-Tones, RU Index 60**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	22.8000	8.4400	6.66	6.66
High	5610	22.6000	8.3444	6.66	6.66
138	5690	16.2000	6.1390	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	20.26	26.26	19.60	10.34	11.00	10.34
High	5610	23.34	20.21	26.21	19.55	10.34	11.00	10.34
138	5690	22.44	18.88	24.88	18.22	10.34	11.00	10.34

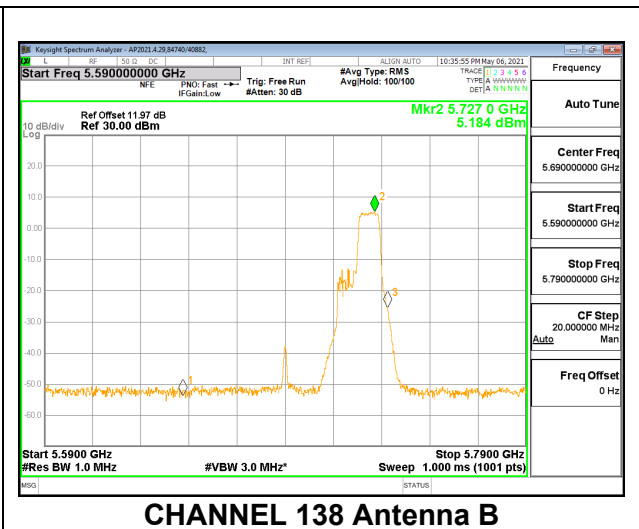
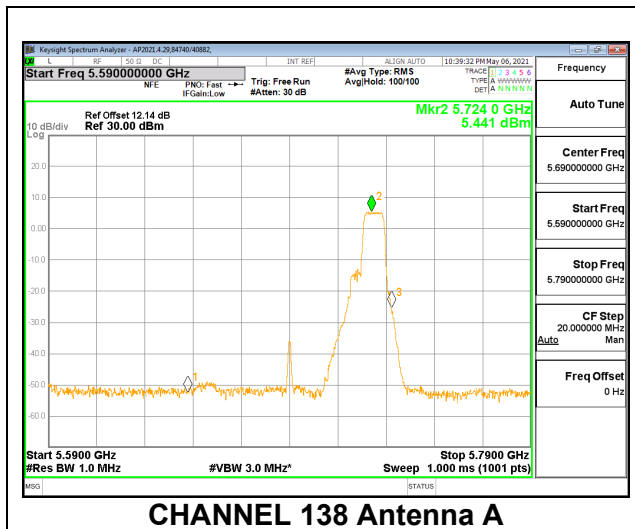
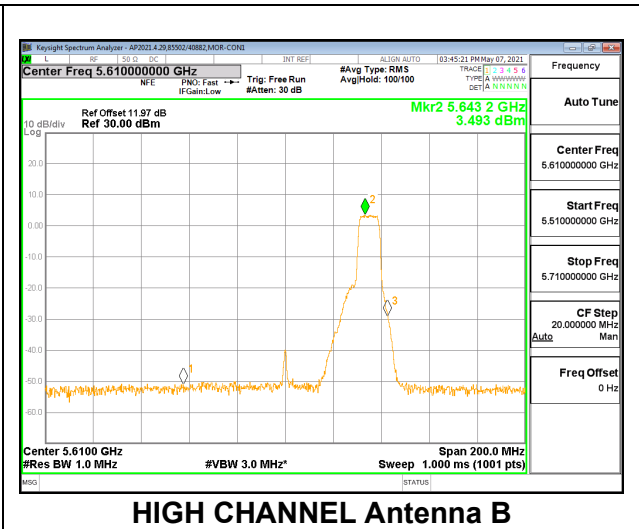
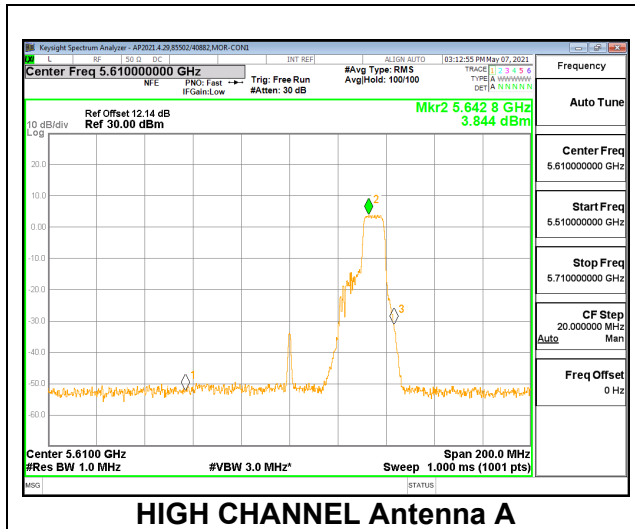
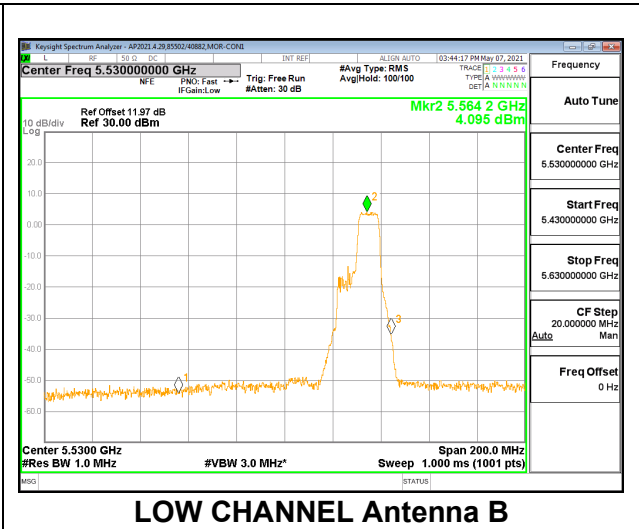
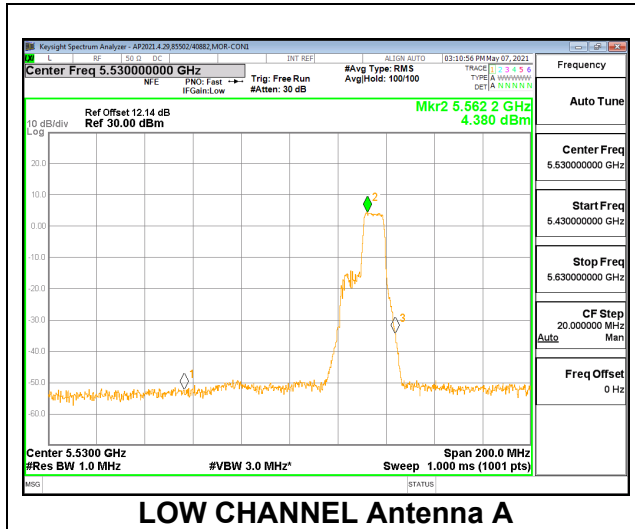
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	14.22	14.39	17.32	19.60	-2.29
High	5610	14.05	13.93	17.00	19.55	-2.55
138	5690	14.48	14.19	17.35	18.22	-0.87

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	4.380	4.095	7.250	10.34	-3.09
High	5610	3.844	3.493	6.682	10.34	-3.66
138	5690	5.441	5.184	8.325	10.34	-2.02



**2TX Antenna A + Antenna B SDM OFDMA MODE: 52-Tones, RU Index 37**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	21.6000	4.6541	6.66	6.66
High	5610	21.6000	4.5871	6.66	6.66
138	5690	21.4000	4.4447	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	17.68	23.68	17.02	10.34	11.00	10.34
High	5610	23.34	17.62	23.62	16.96	10.34	11.00	10.34
138	5690	23.34	17.48	23.48	16.82	10.34	11.00	10.34

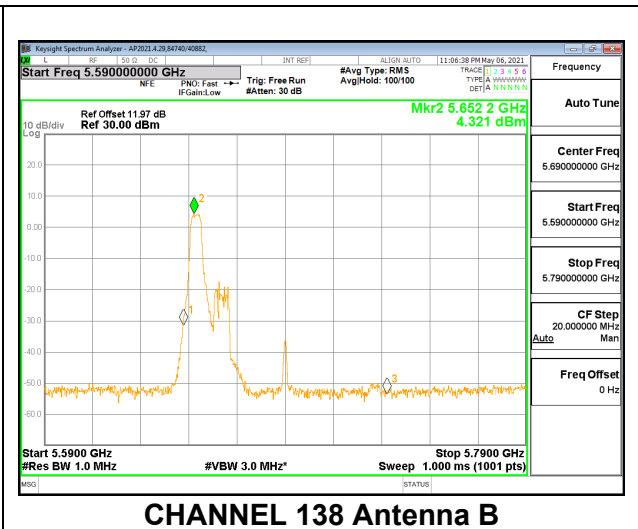
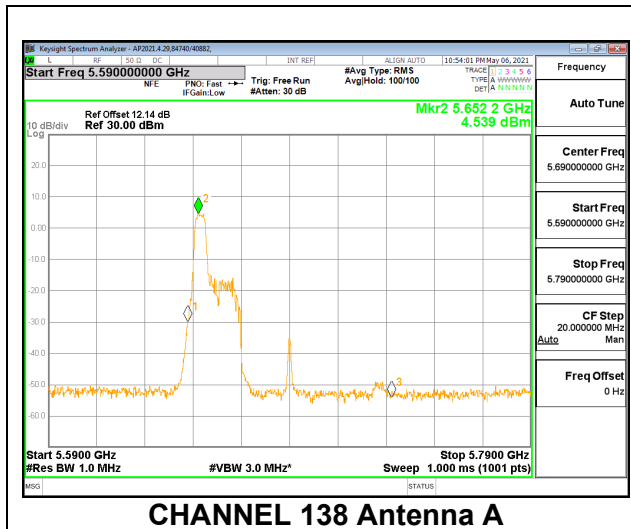
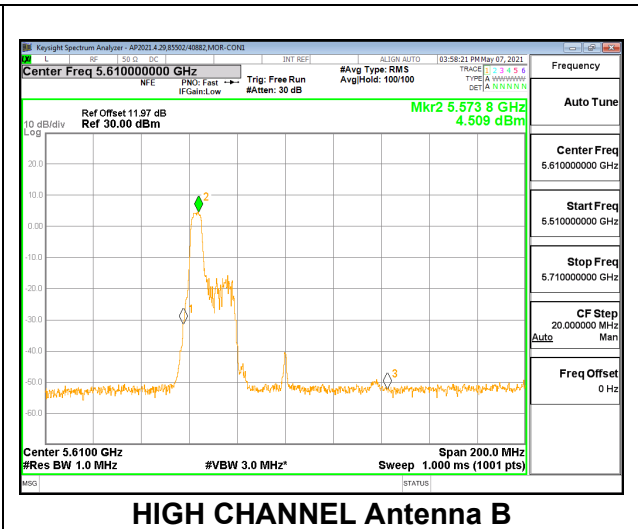
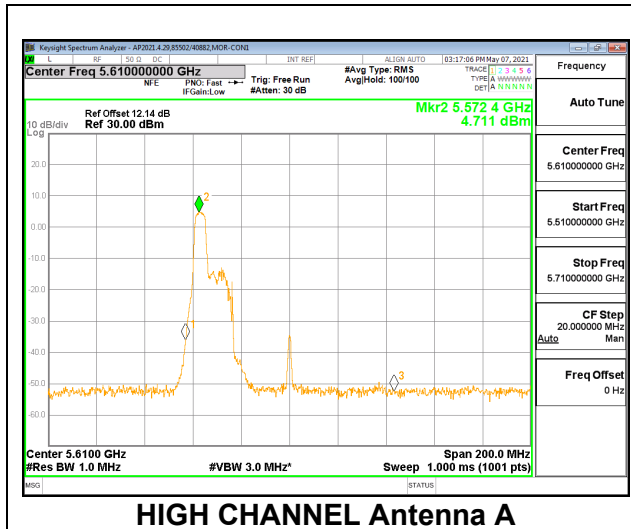
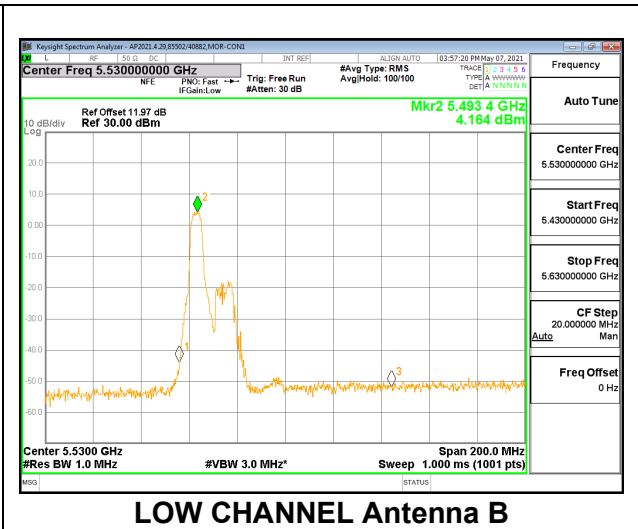
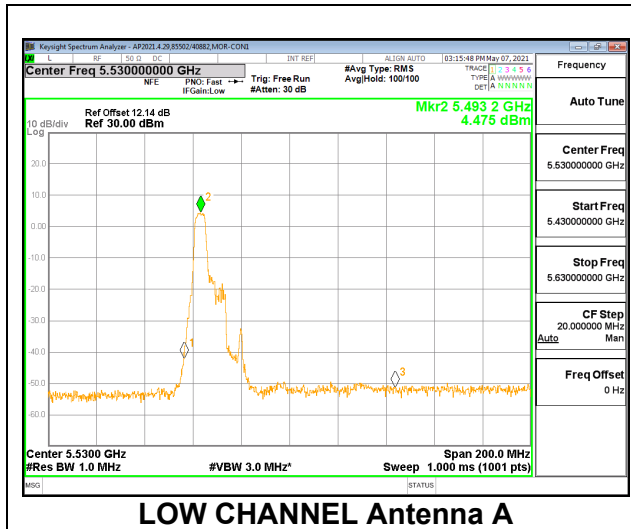
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	12.09	12.18	15.15	17.02	-1.87
High	5610	12.19	12.33	15.27	16.96	-1.68
138	5690	12.19	11.79	15.00	16.82	-1.81

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	4.475	4.164	7.333	10.34	-3.01
High	5610	4.711	4.509	7.621	10.34	-2.72
138	5690	4.539	4.321	7.442	10.34	-2.90



**2TX Antenna A + Antenna B SDM OFDMA MODE: 52-Tones, RU Index 44**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	20.8000	4.8419	6.66	6.66
High	5610	20.8000	4.1325	6.66	6.66
138	5690	20.6000	4.5136	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	17.85	23.85	17.19	10.34	11.00	10.34
High	5610	23.34	17.16	23.16	16.50	10.34	11.00	10.34
138	5690	23.34	17.55	23.55	16.89	10.34	11.00	10.34

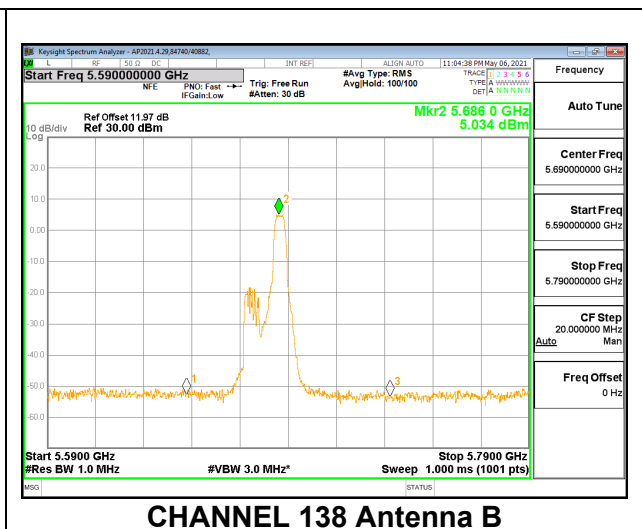
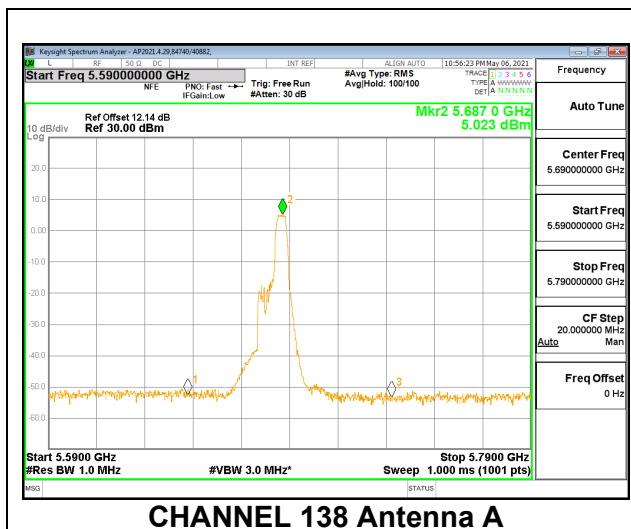
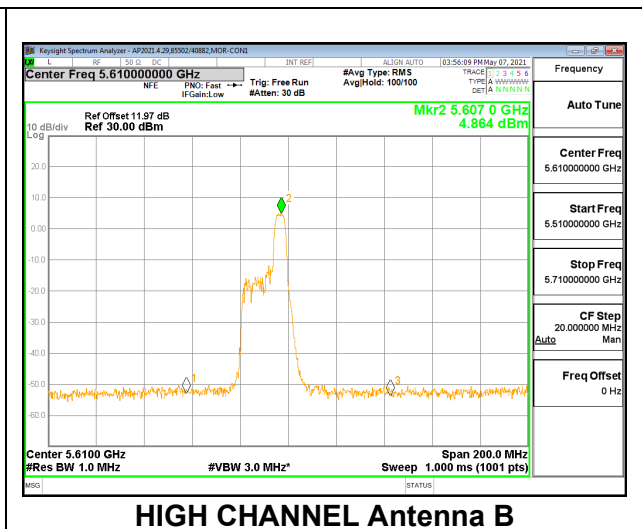
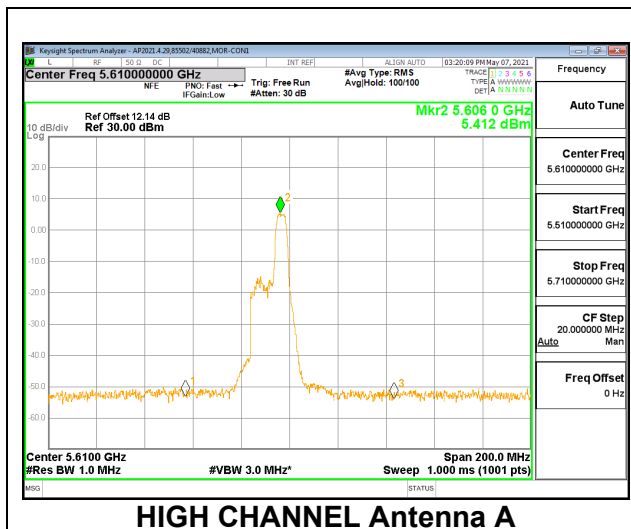
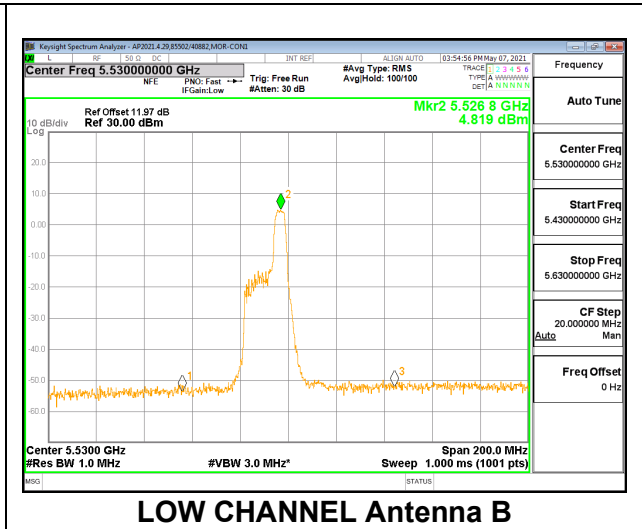
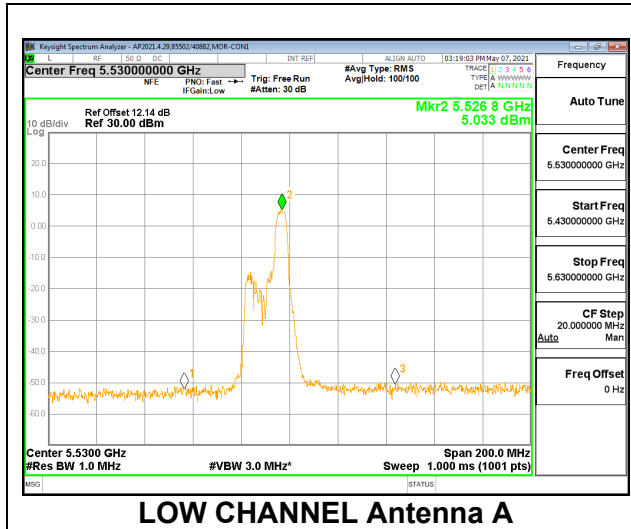
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	12.23	12.62	15.44	17.19	-1.75
High	5610	12.50	12.45	15.49	16.50	-1.02
138	5690	12.48	12.21	15.36	16.89	-1.53

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	5.033	4.819	7.938	10.34	-2.40
High	5610	5.412	4.864	8.157	10.34	-2.18
138	5690	5.023	5.034	8.039	10.34	-2.30



**2TX Antenna A + Antenna B SDM OFDMA MODE: 52-Tones, RU Index 52**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	20.8000	5.1624	6.66	6.66
High	5610	21.0000	4.3041	6.66	6.66
138	5690	13.4000	3.1586	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	18.13	24.13	17.47	10.34	11.00	10.34
High	5610	23.34	17.34	23.34	16.68	10.34	11.00	10.34
138	5690	21.61	15.99	21.99	15.33	10.34	11.00	10.34

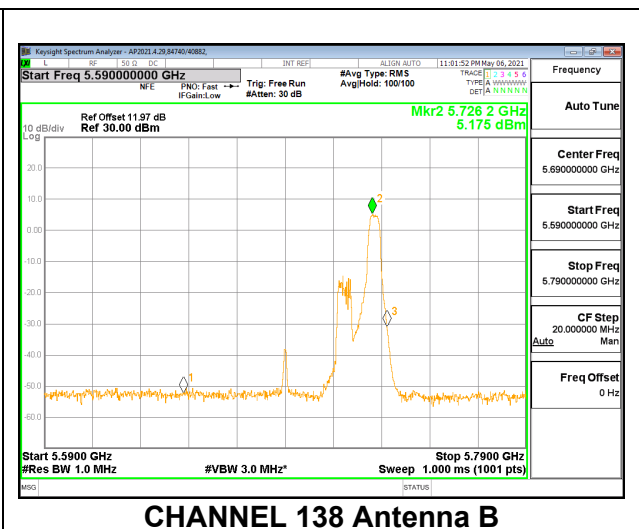
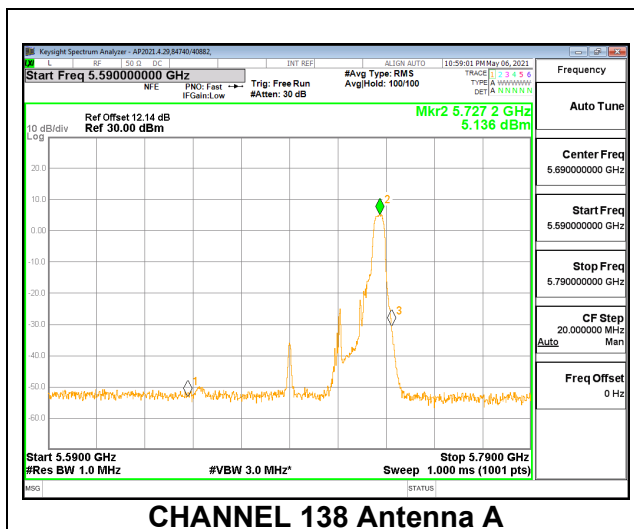
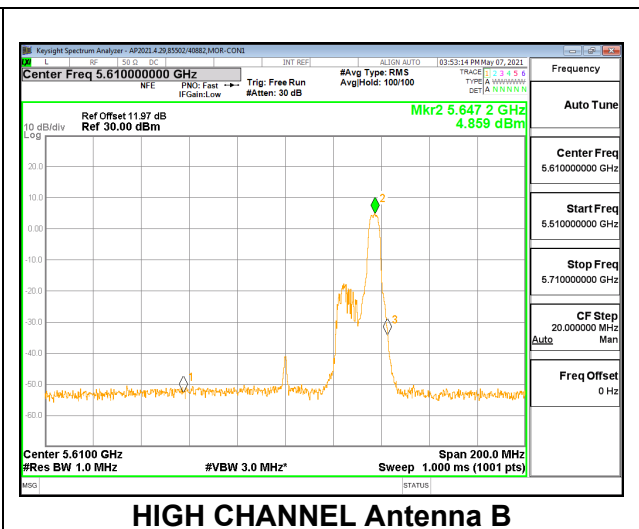
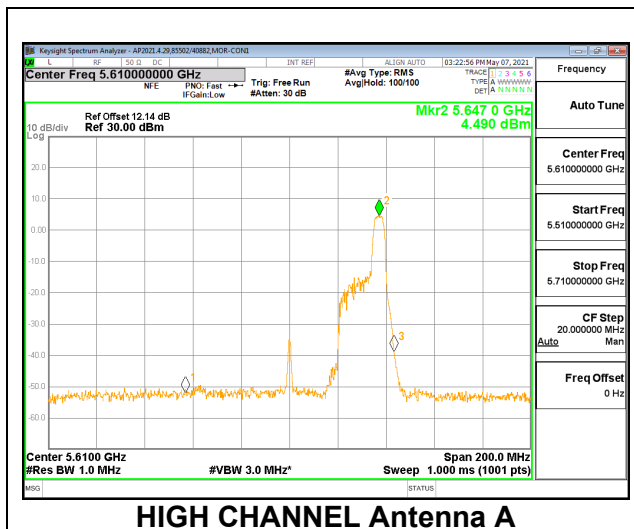
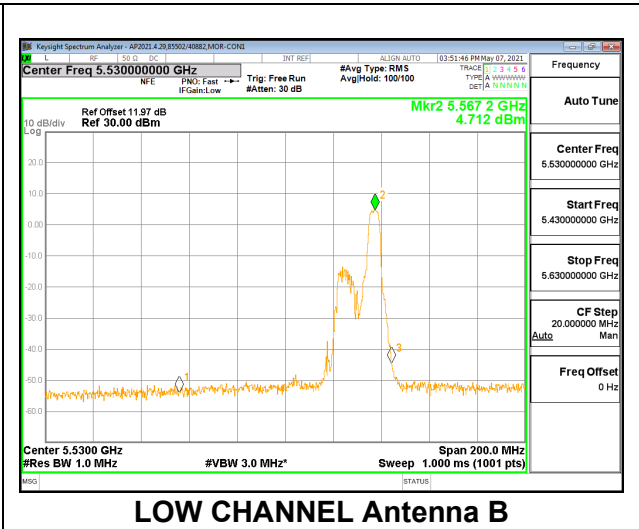
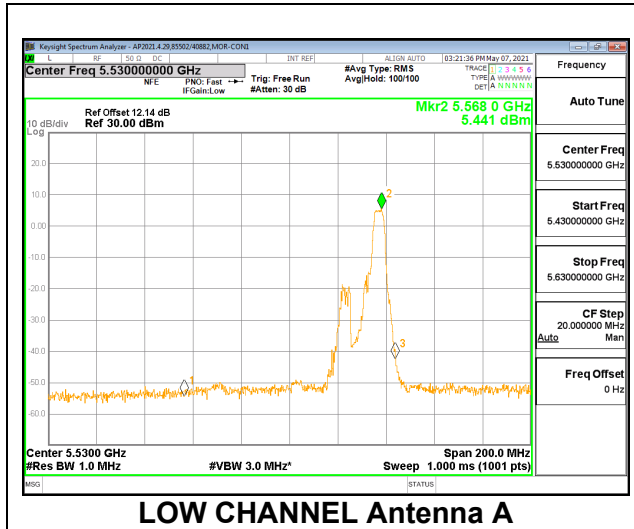
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	12.24	12.43	15.35	17.47	-2.12
High	5610	12.04	11.96	15.01	16.68	-1.67
138	5690	12.20	11.98	15.10	15.33	-0.23

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	5.441	4.712	8.102	10.34	-2.24
High	5610	4.490	4.859	7.689	10.34	-2.65
138	5690	5.136	5.175	8.166	10.34	-2.17





**2TX Antenna A + Antenna B SDM OFDMA MODE: 26-Tones, RU Index 0**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	20.4000	3.4367	6.66	6.66
High	5610	20.4000	3.4111	6.66	6.66
138	5690	20.0000	2.6734	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	16.36	22.36	15.70	10.34	11.00	10.34
High	5610	23.34	16.33	22.33	15.67	10.34	11.00	10.34
138	5690	23.34	15.27	21.27	14.61	10.34	11.00	10.34

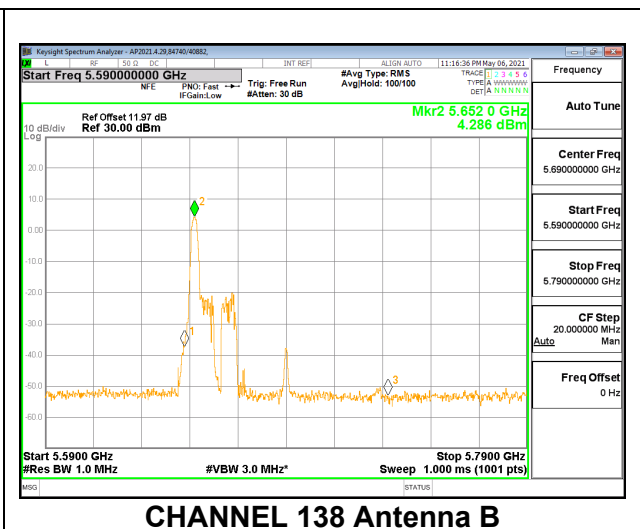
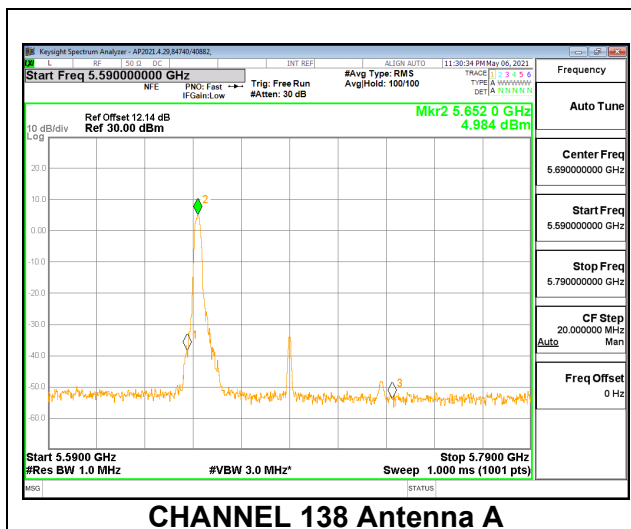
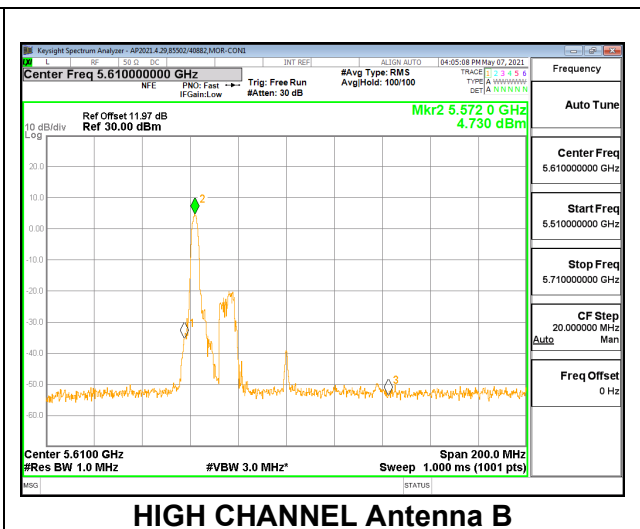
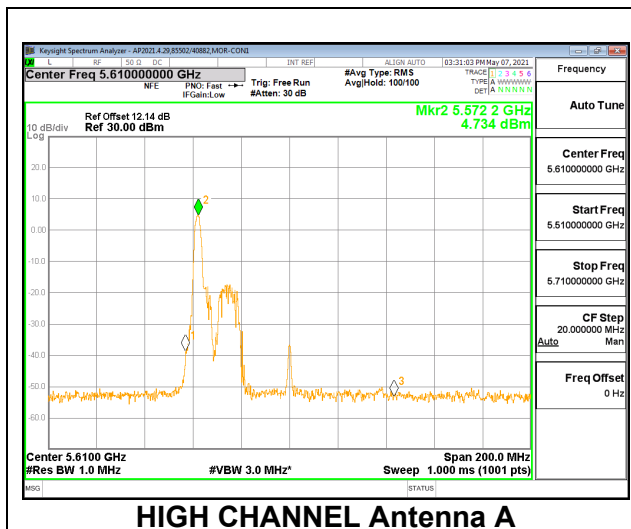
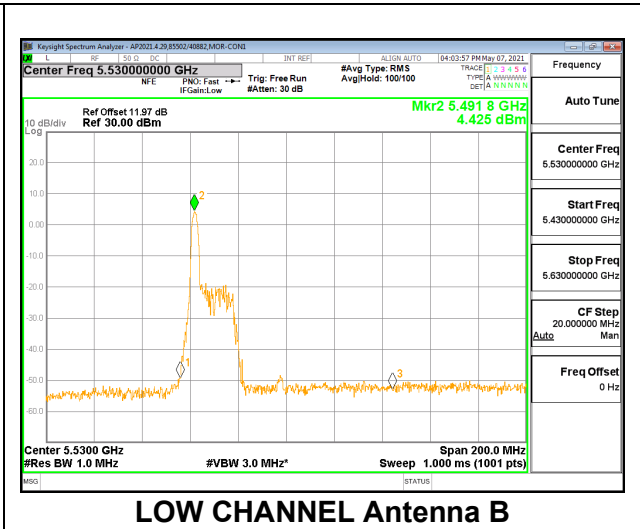
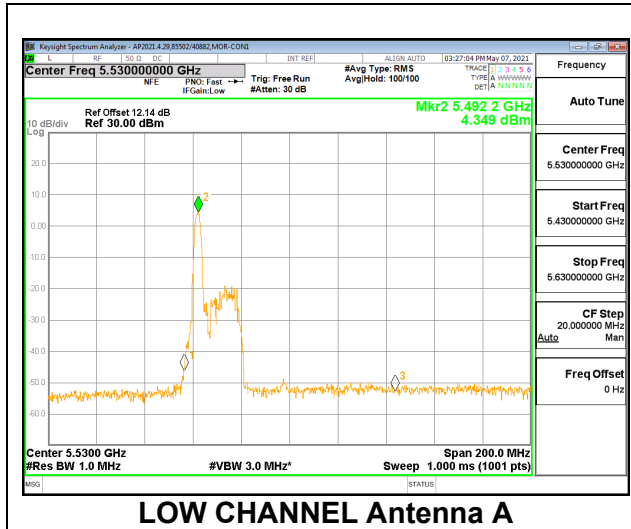
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	9.29	9.15	12.23	15.70	-3.47
High	5610	9.53	9.29	12.42	15.67	-3.25
138	5690	9.35	8.89	12.14	14.61	-2.47

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	4.349	4.425	7.397	10.34	-2.94
High	5610	4.734	4.730	7.742	10.34	-2.60
138	5690	4.984	4.286	7.659	10.34	-2.68



**2TX Antenna A + Antenna B SDM OFDMA MODE: 26-Tones, RU Index 18**

<b>Test Engineer:</b>	84740/40882
<b>Test Date:</b>	2021-05-03 – 2021-05-07

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	38.0000	4.8694	6.66	6.66
High	5610	38.8000	5.1708	6.66	6.66
138	5690	39.0000	5.5241	6.66	6.66

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	23.34	17.87	23.87	17.21	10.34	11.00	10.34
High	5610	23.34	18.14	24.14	17.48	10.34	11.00	10.34
138	5690	23.34	18.42	24.42	17.76	10.34	11.00	10.34

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
Low	5530	9.31	9.48	12.41	17.21	-4.81
High	5610	9.48	9.26	12.38	17.48	-5.09
138	5690	9.41	8.99	12.22	17.76	-5.55

**PSD Results**

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm/ 1MHz)	Antenna B Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
Low	5530	3.337	3.485	6.422	10.34	-3.92
High	5610	3.960	3.841	6.911	10.34	-3.43
138	5690	3.987	3.607	6.811	10.34	-3.53