

## 10. ANTENNA PORT TEST RESULTS – AUTHORIZED BAND, FRB

### 10.1. ON TIME AND DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

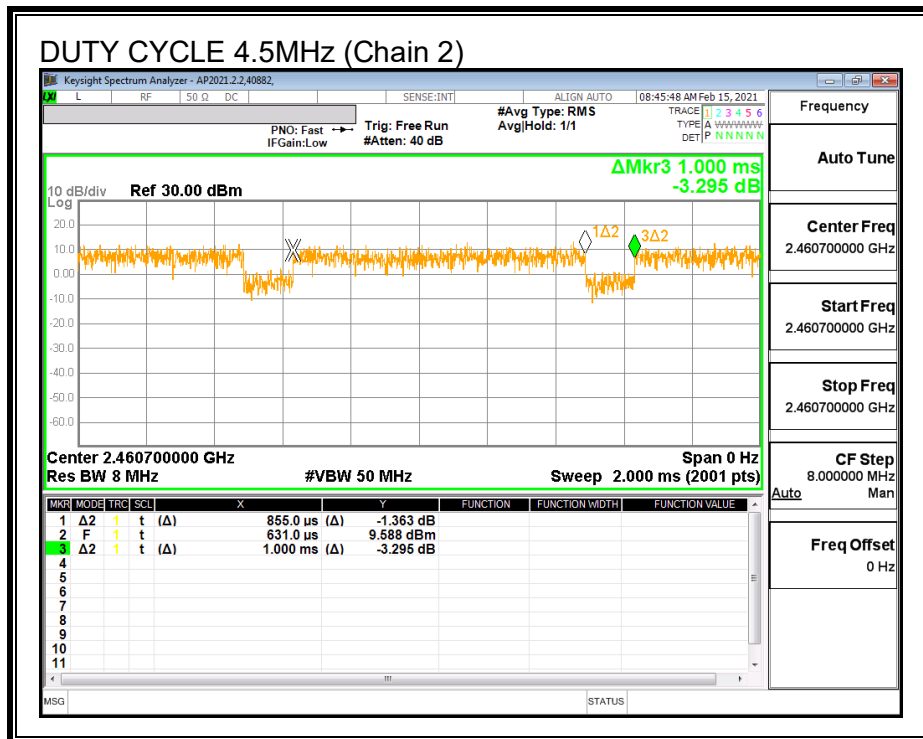
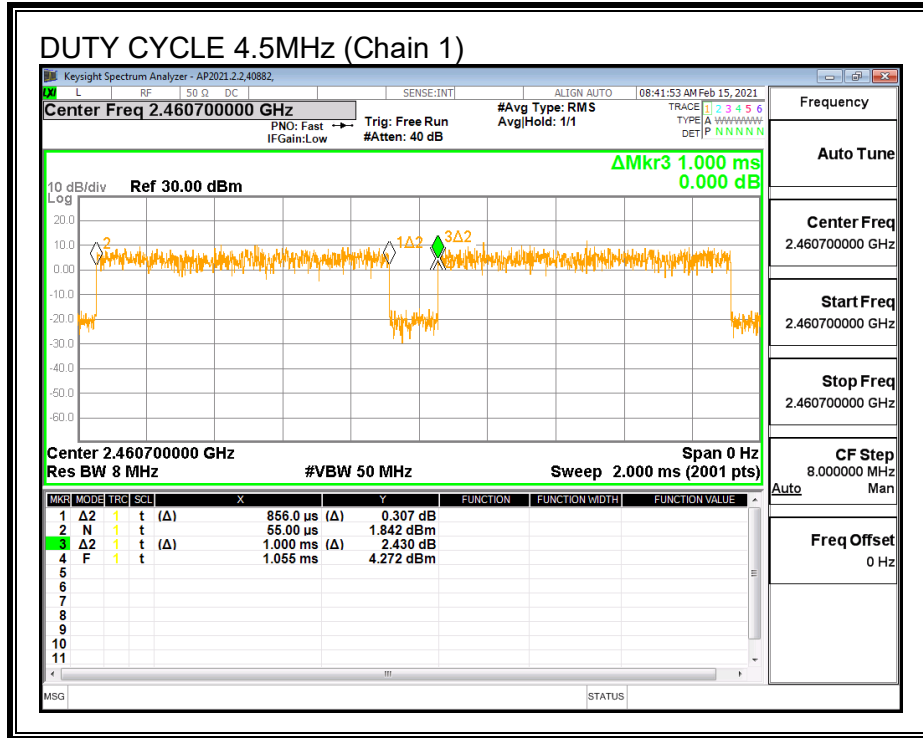
#### PROCEDURE

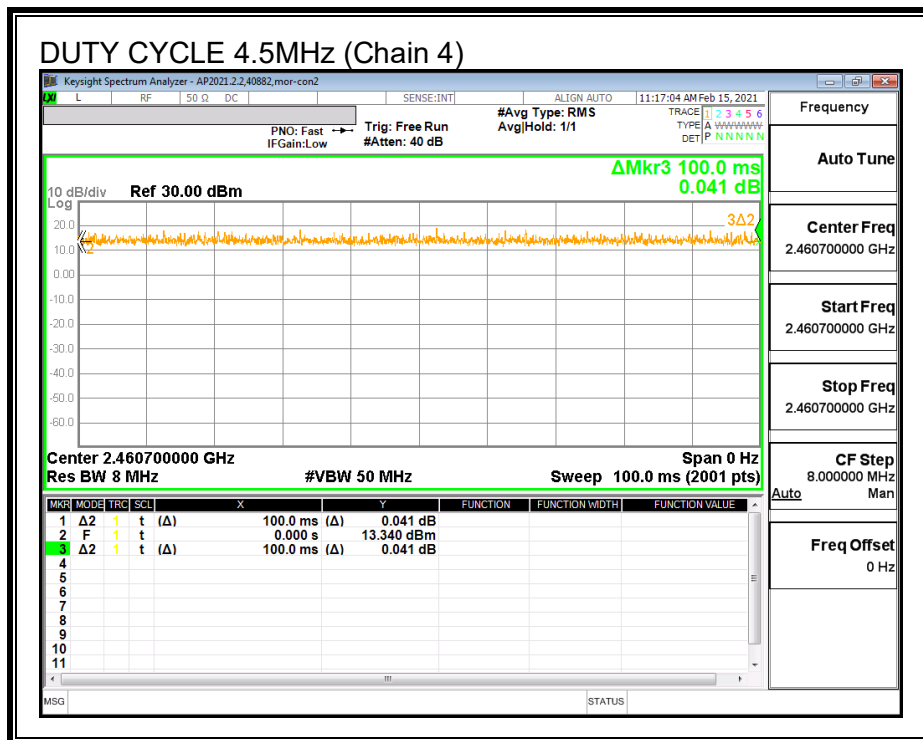
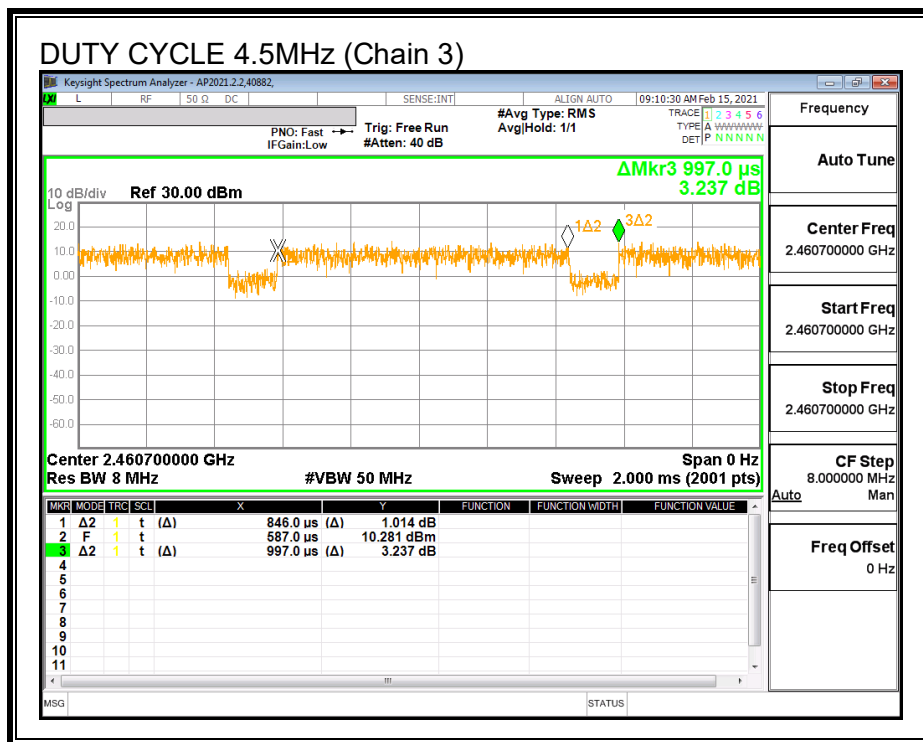
KDB 558074 Zero-Span Spectrum Analyzer Method.

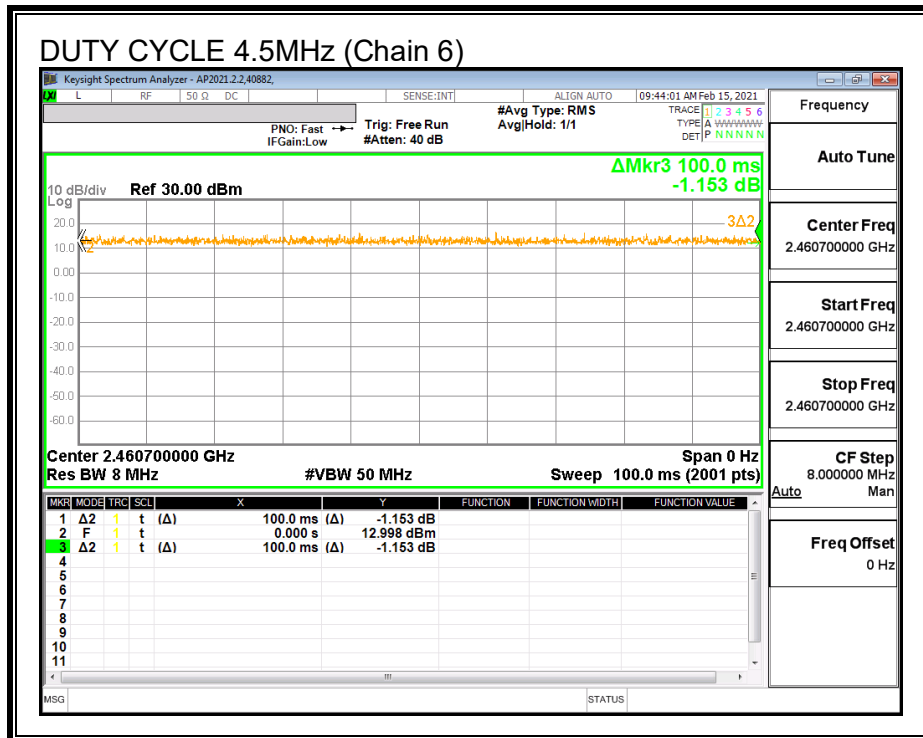
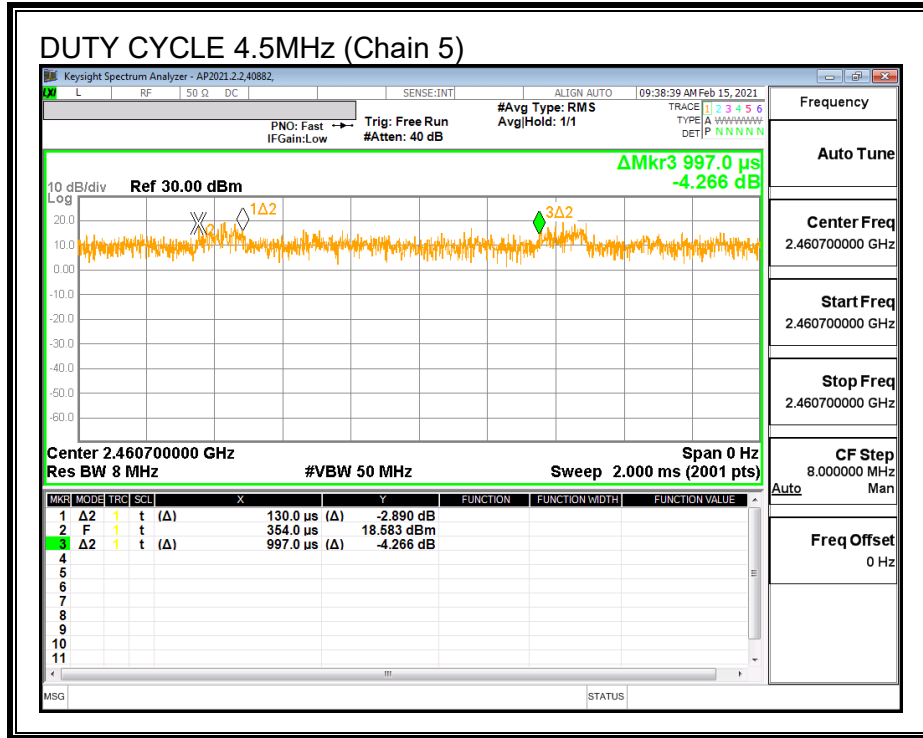
#### ON TIME AND DUTY CYCLE RESULTS – QPSK

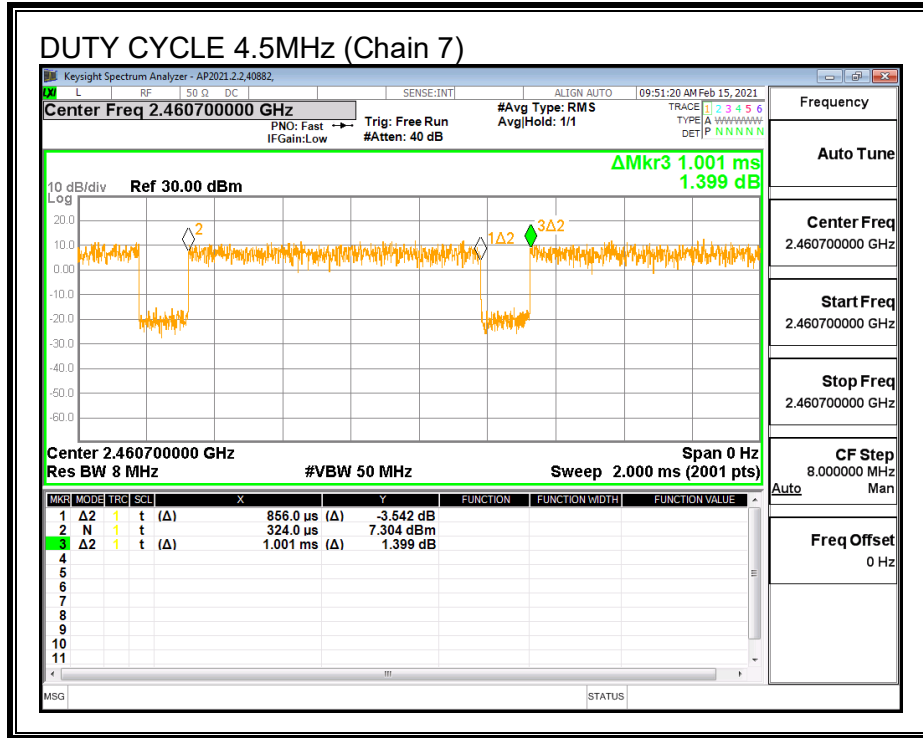
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.856	1.000	0.856	85.60%	1.35	1.168
Chain 2	0.855	1.000	0.855	85.50%	1.36	1.170
Chain 3	0.846	0.997	0.849	84.85%	1.43	1.182
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.130	0.997	0.130	13.04%	17.70	7.692
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.856	1.001	0.855	85.51%	1.36	1.168
Chain 8	0.847	1.003	0.844	84.45%	1.47	1.181
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.856	1.000	0.856	85.60%	1.35	1.168
Chain 2	0.856	1.001	0.855	85.51%	1.36	1.168
Chain 3	0.853	0.997	0.856	85.56%	1.35	1.172
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.138	1.007	0.137	13.70%	17.26	7.246
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.70%	1.34	1.167
Chain 8	0.851	0.999	0.852	85.19%	1.39	1.175

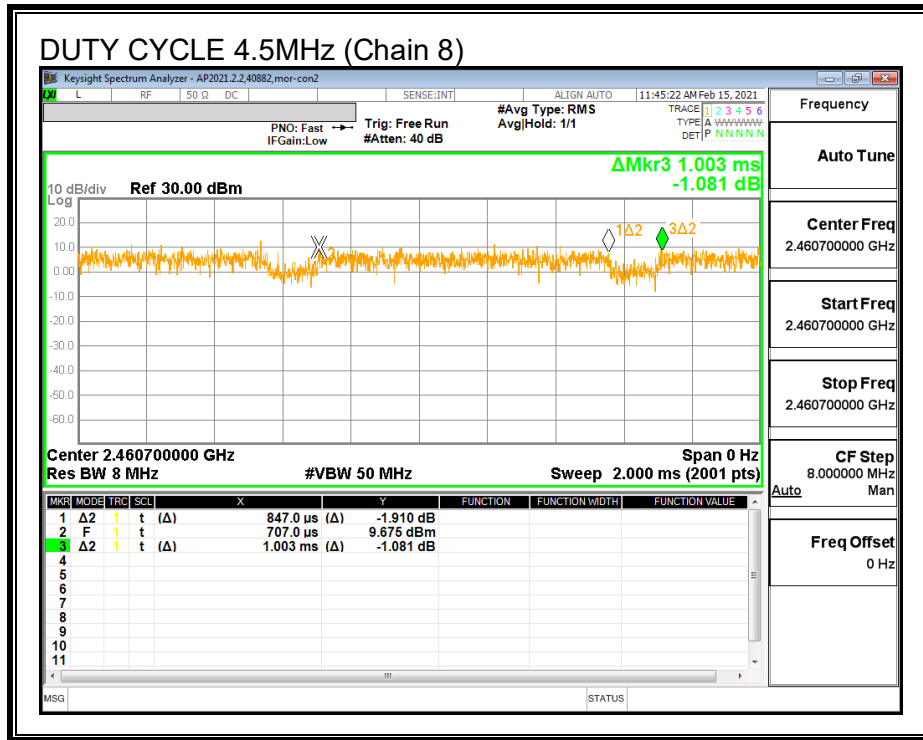


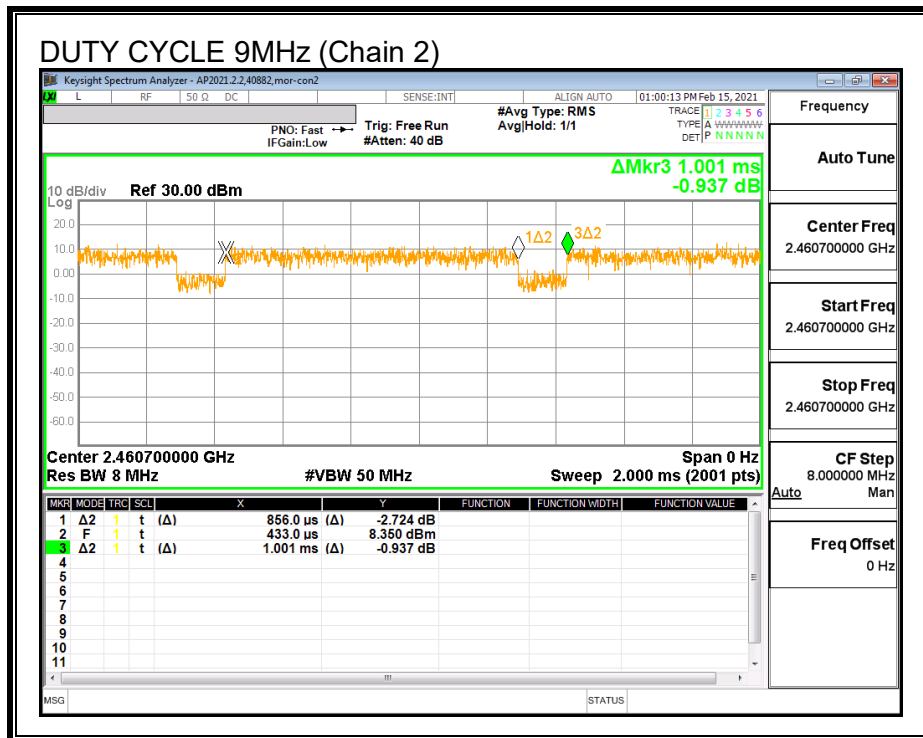
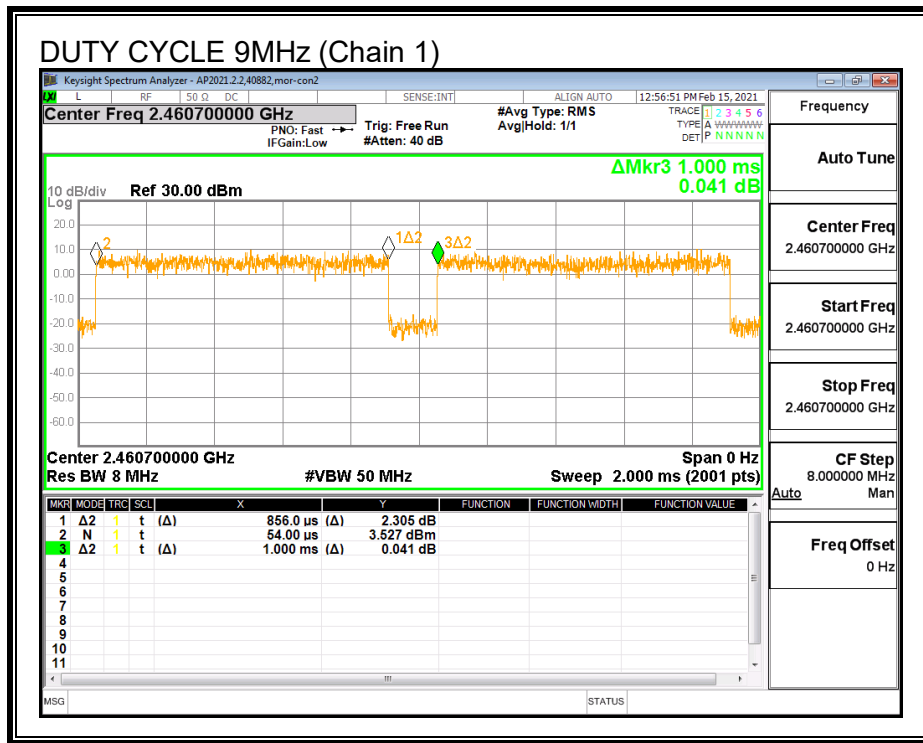


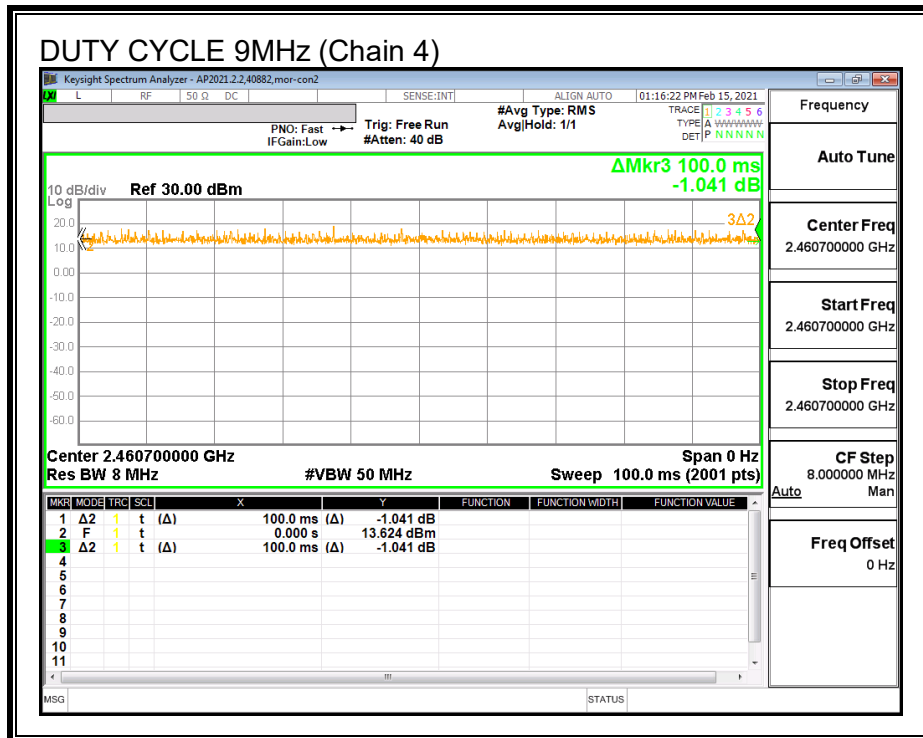
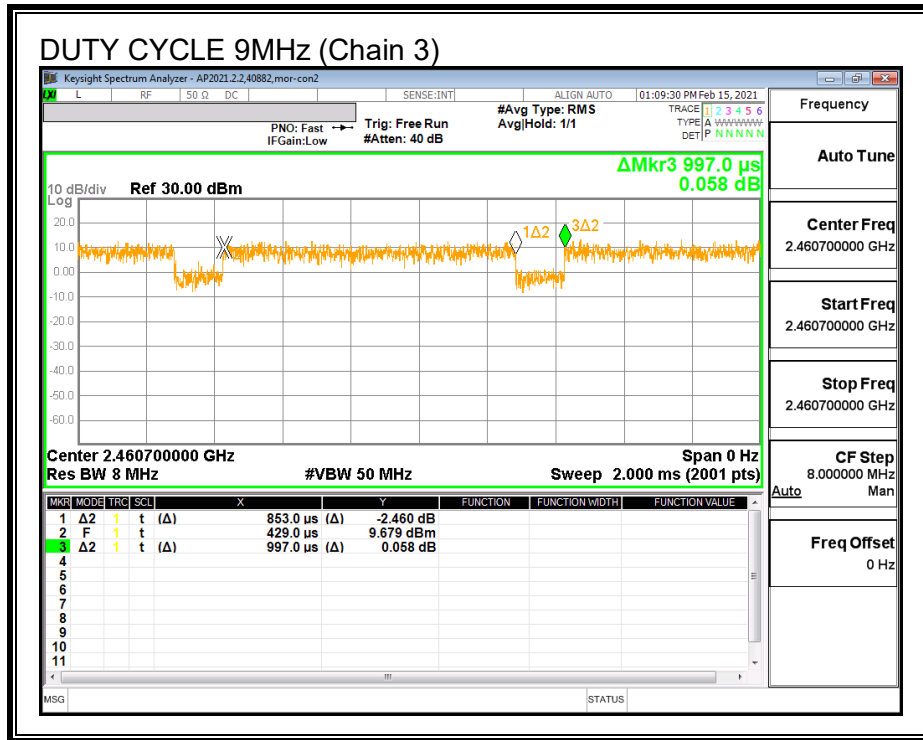


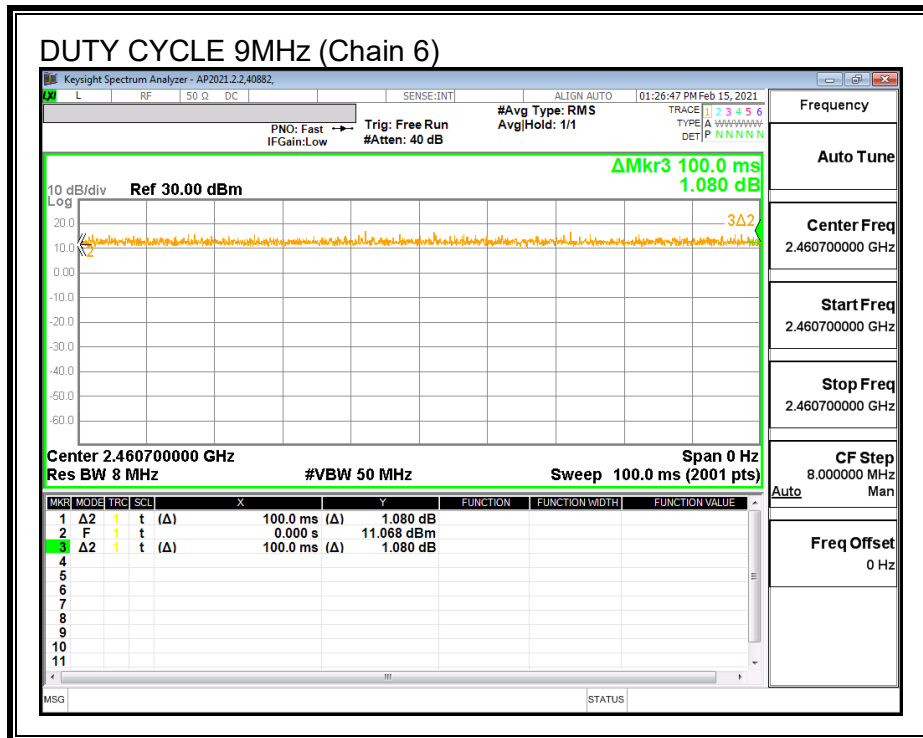
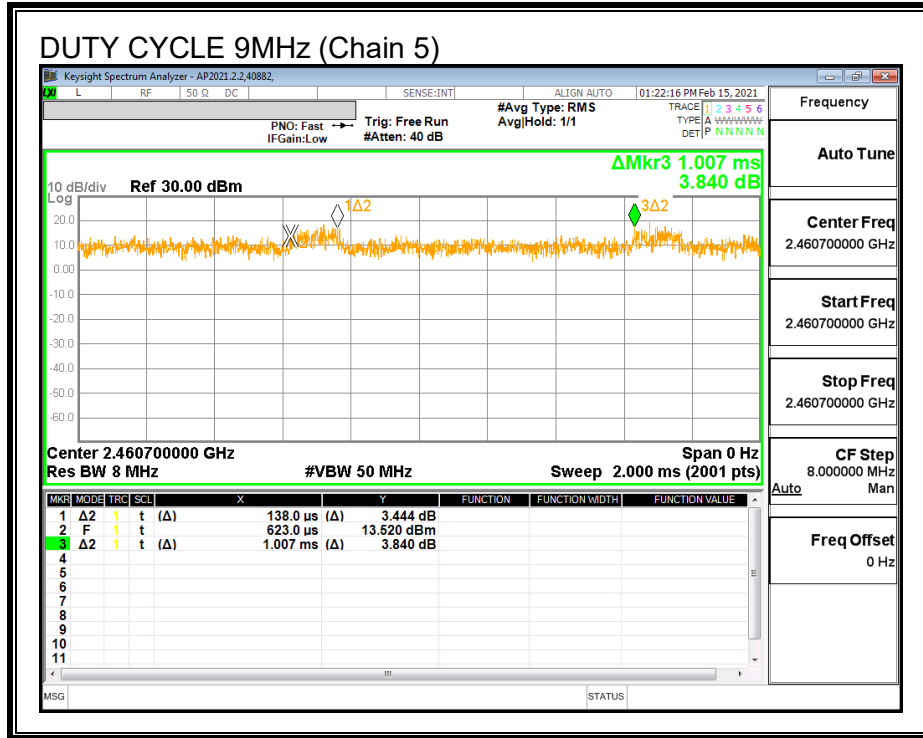




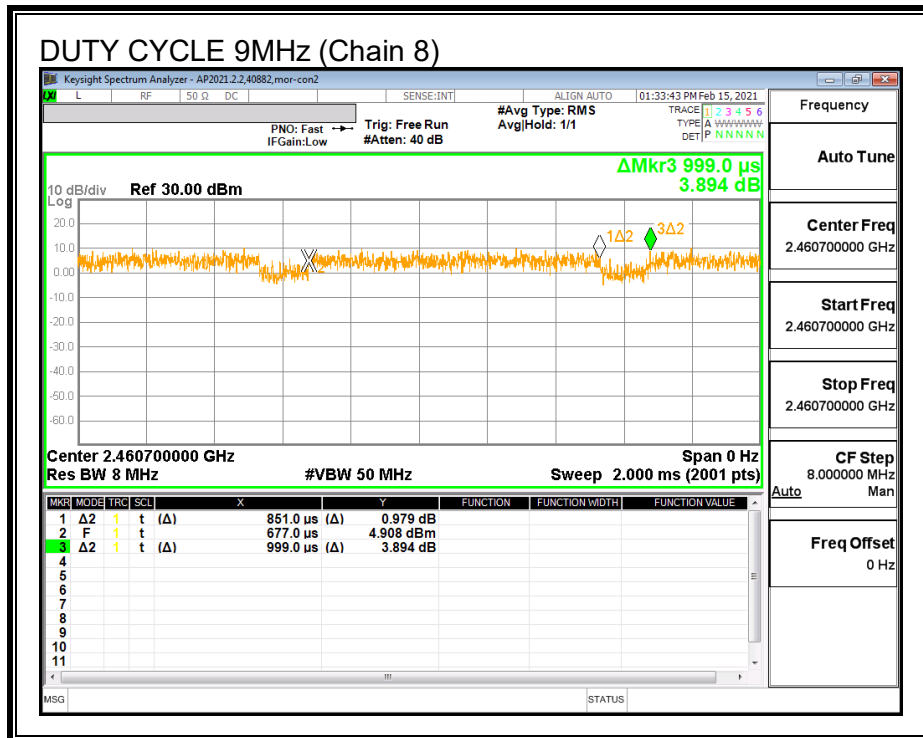
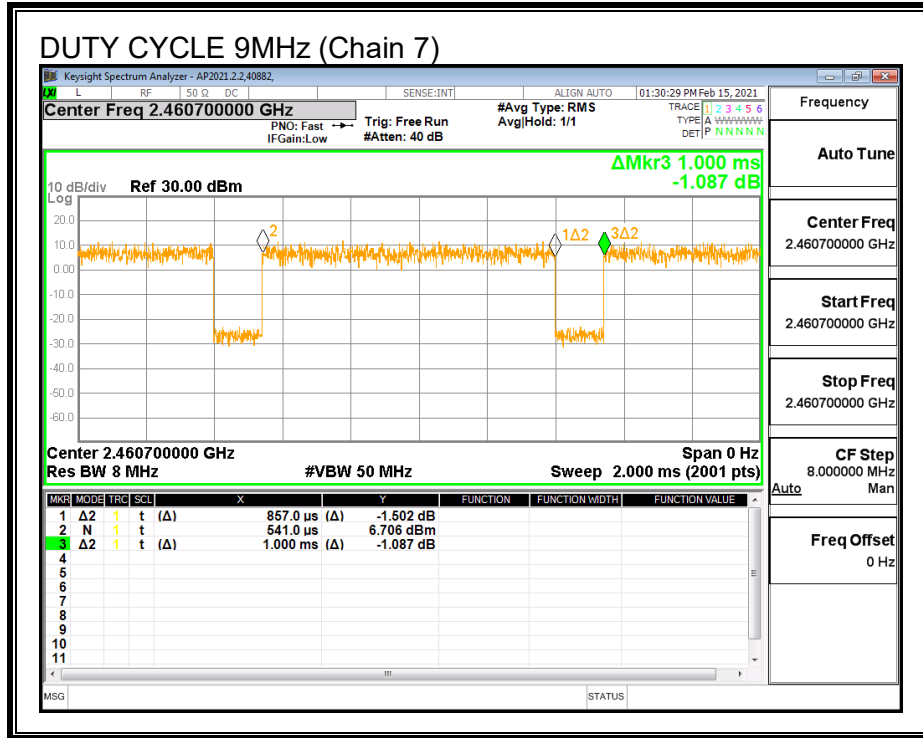






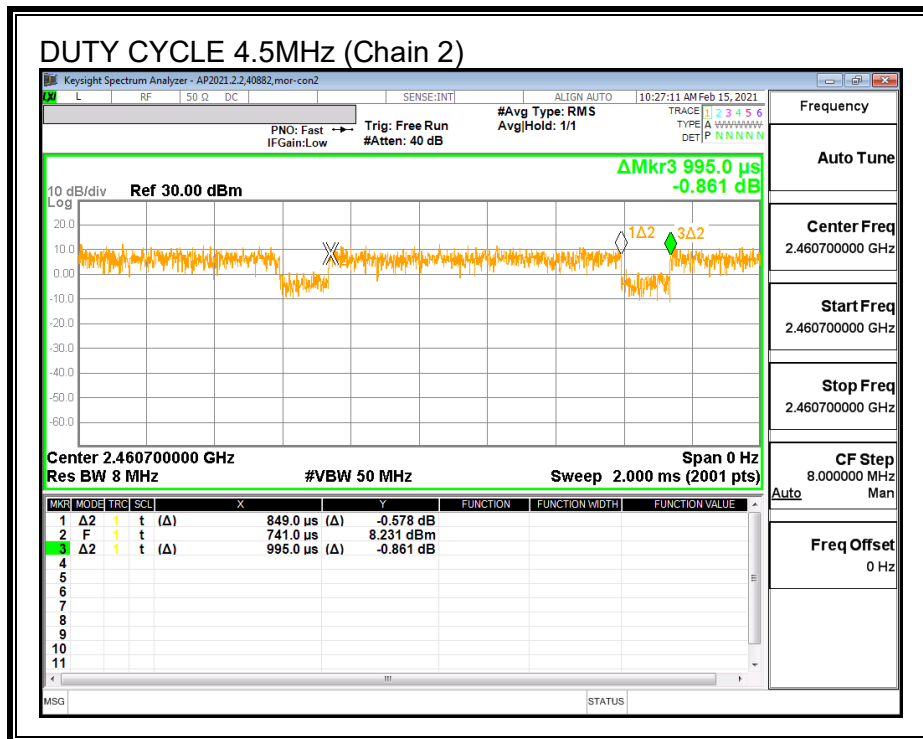
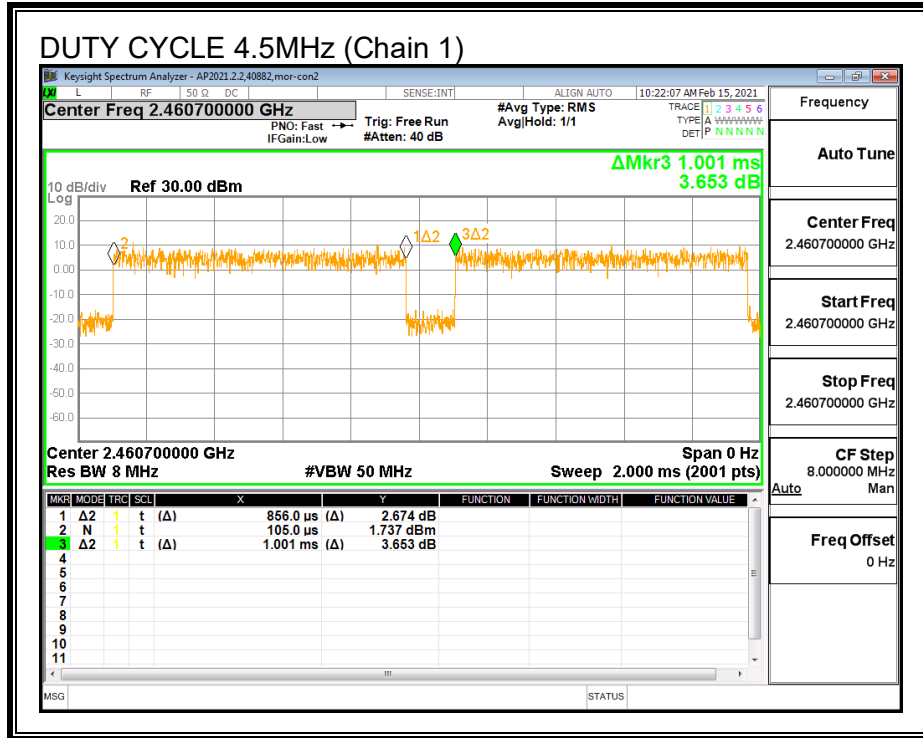


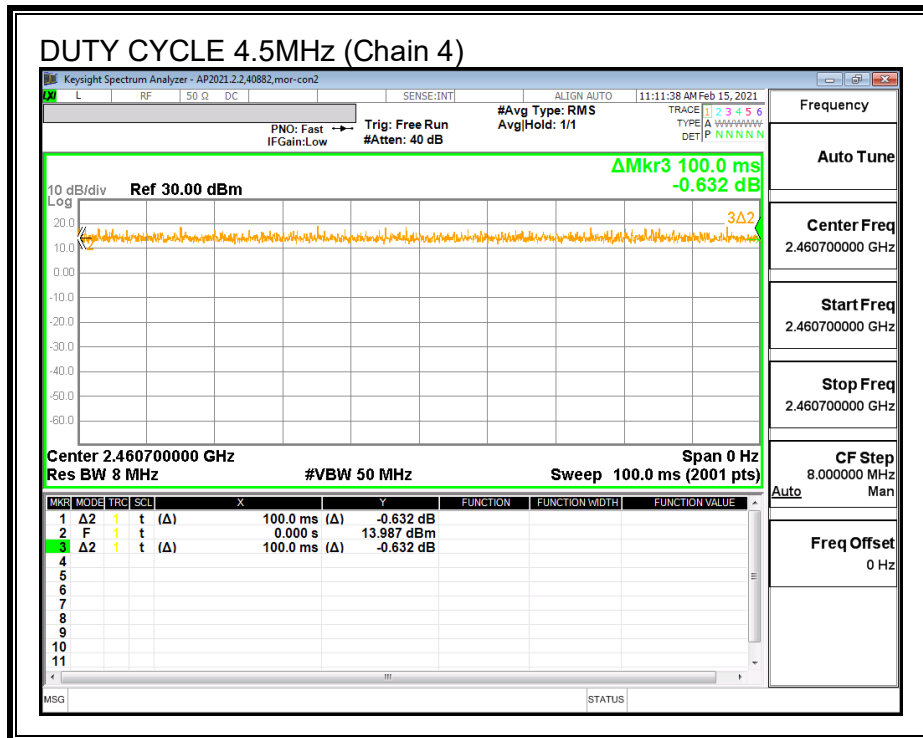
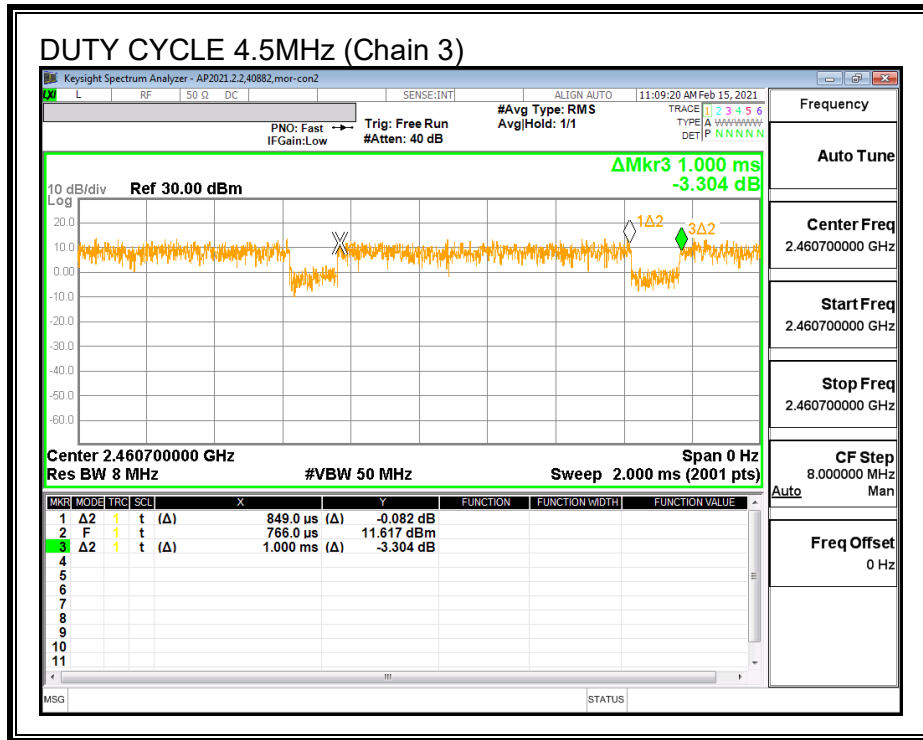


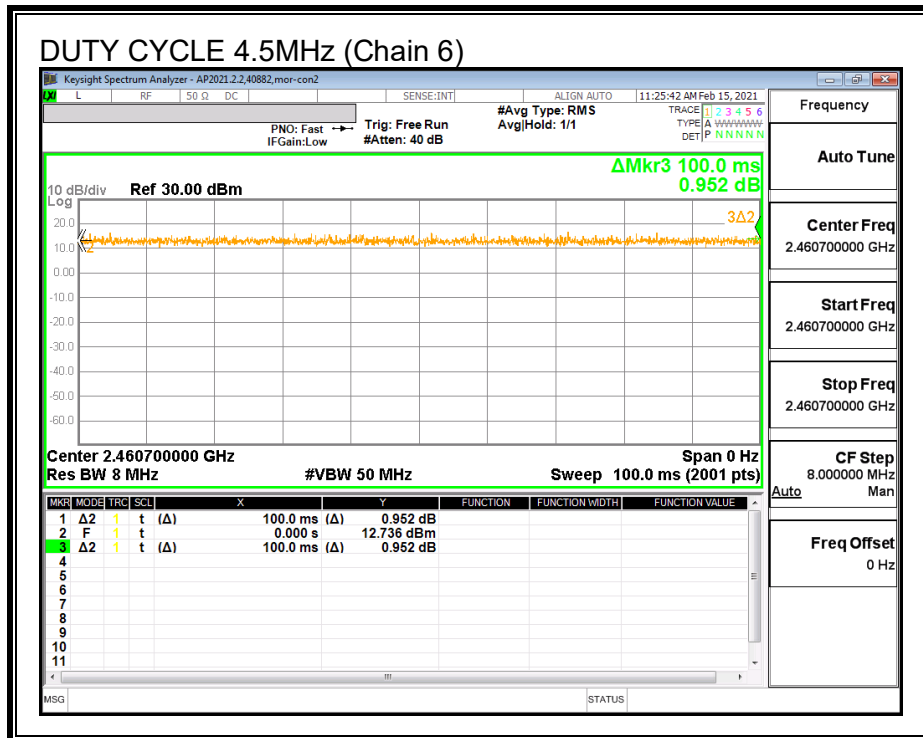
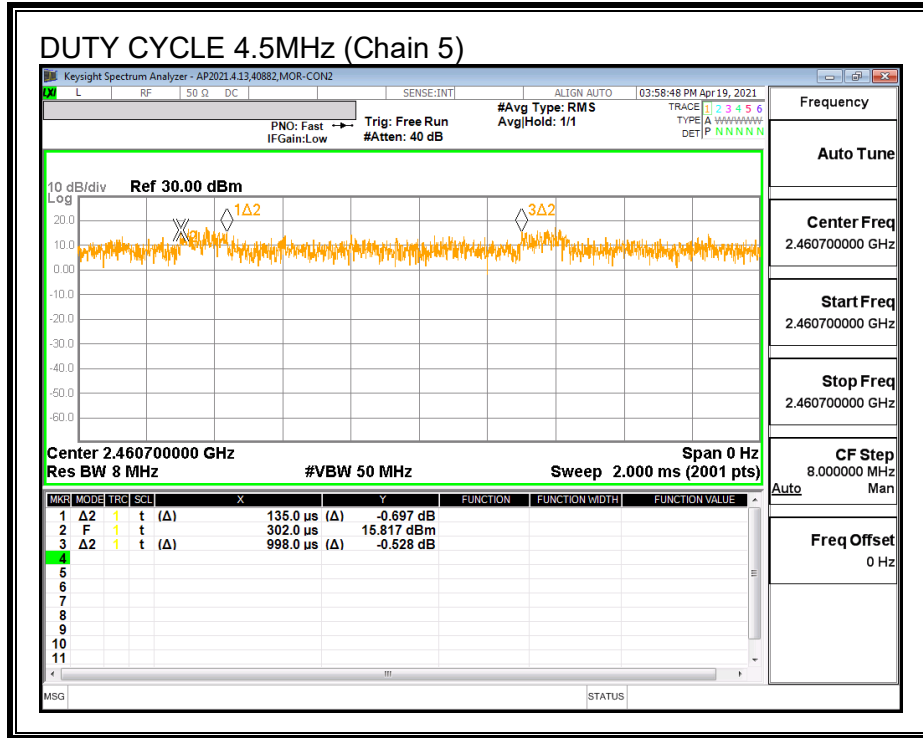


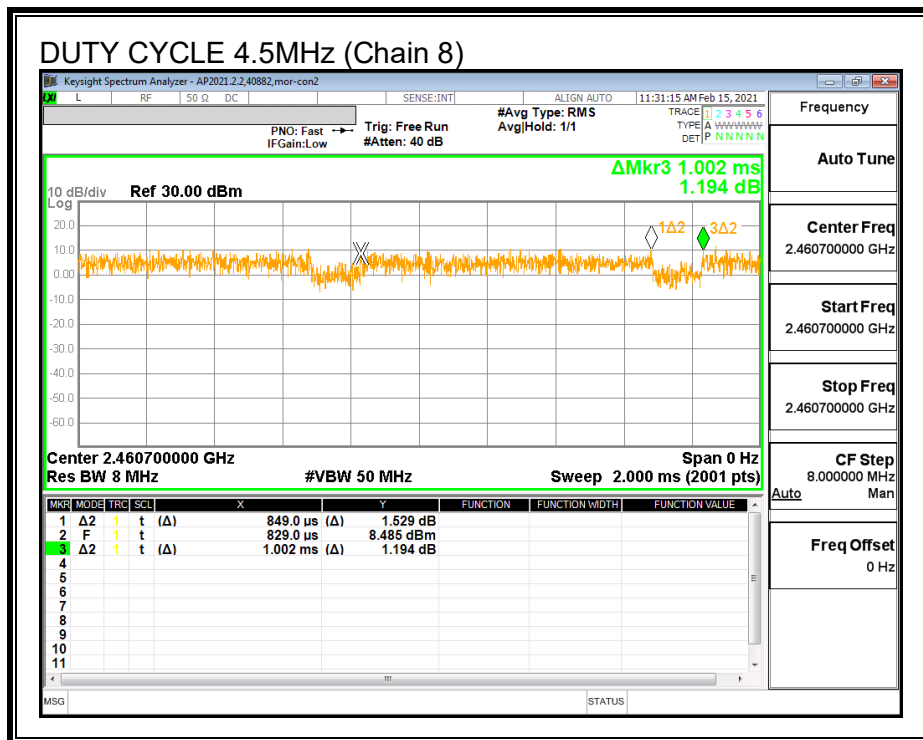
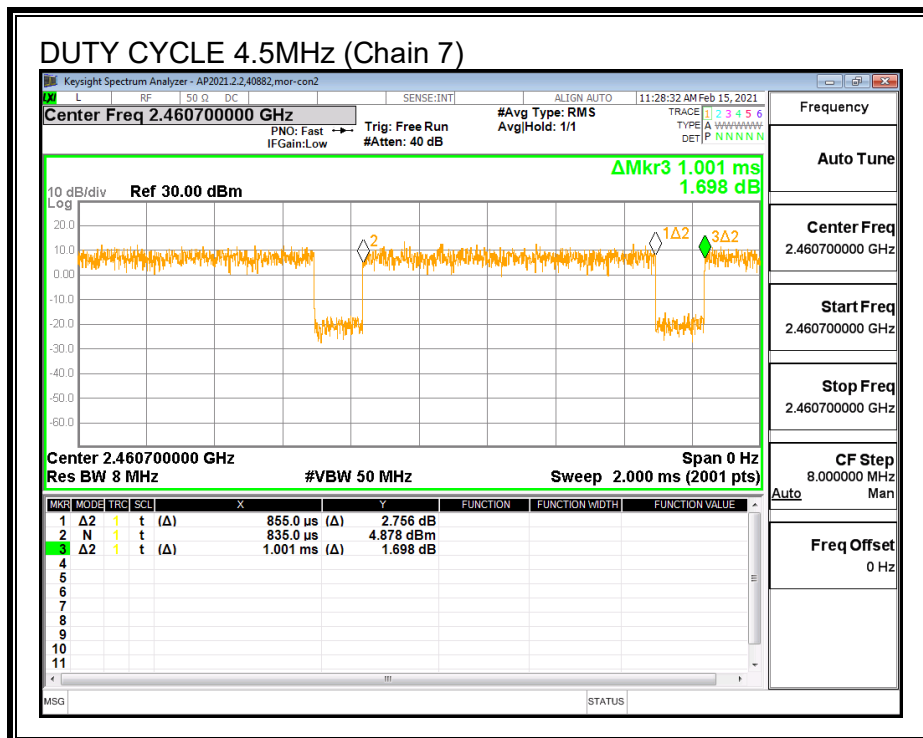
**ON TIME AND DUTY CYCLE RESULTS – 16-QAM**

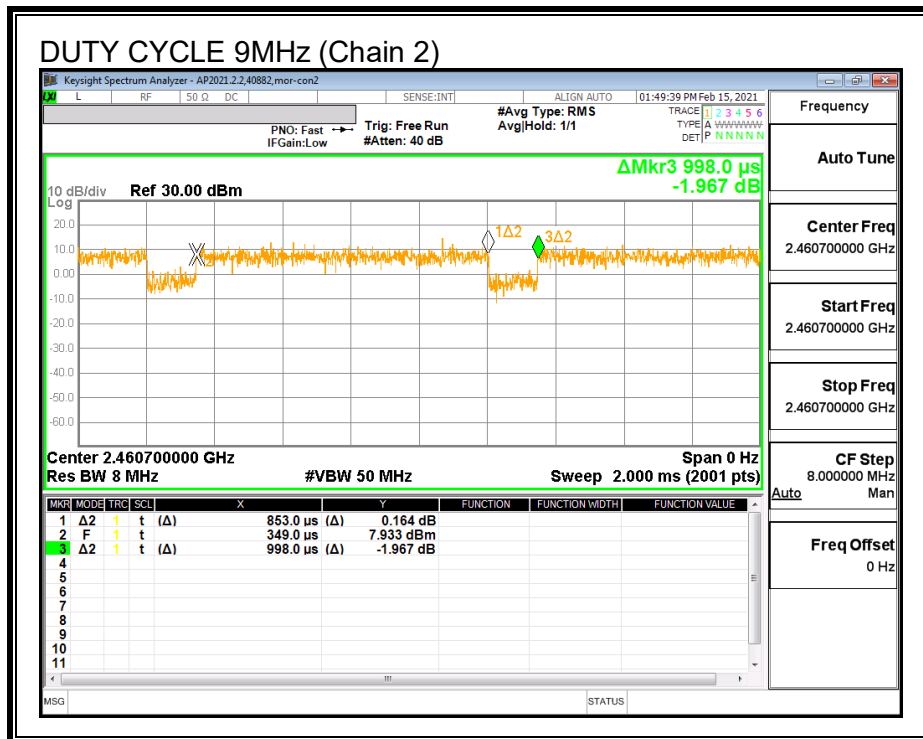
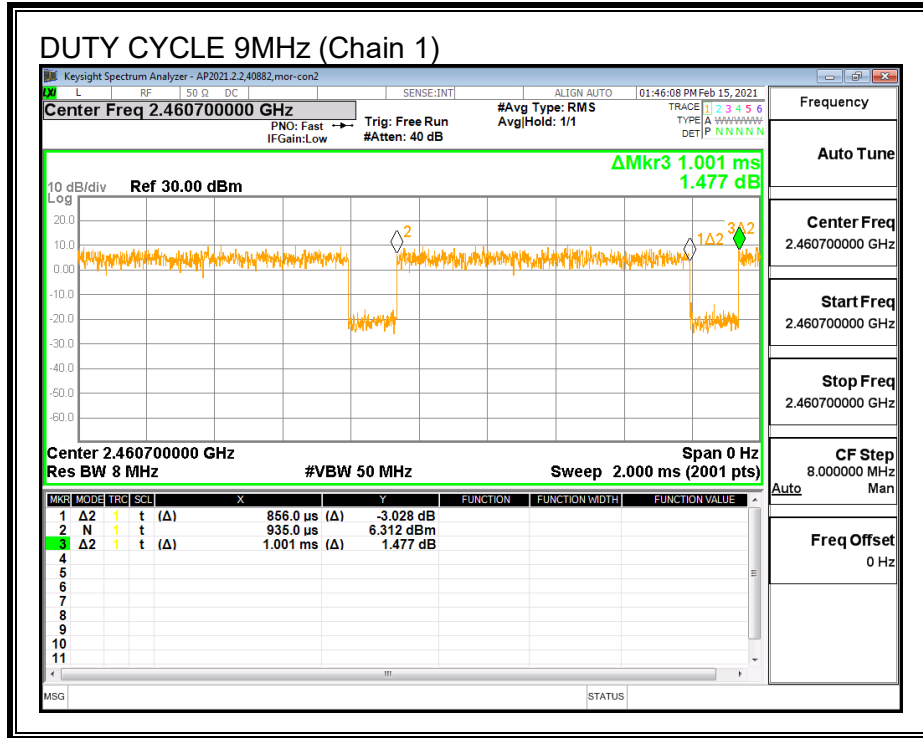
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.856	1.001	0.855	85.51%	1.36	1.168
Chain 2	0.849	0.995	0.853	85.33%	1.38	1.178
Chain 3	0.849	1.000	0.849	84.90%	1.42	1.178
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.135	0.998	0.135	13.53%	17.38	7.407
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.855	1.001	0.854	85.41%	1.37	1.170
Chain 8	0.849	1.002	0.847	84.73%	1.44	1.178
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.856	1.001	0.855	85.51%	1.36	1.168
Chain 2	0.853	0.998	0.855	85.47%	1.36	1.172
Chain 3	0.850	0.998	0.852	85.17%	1.39	1.176
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.133	0.999	0.133	13.31%	17.51	7.519
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.855	0.999	0.856	85.59%	1.35	1.170
Chain 8	0.860	0.999	0.861	86.09%	1.30	1.163

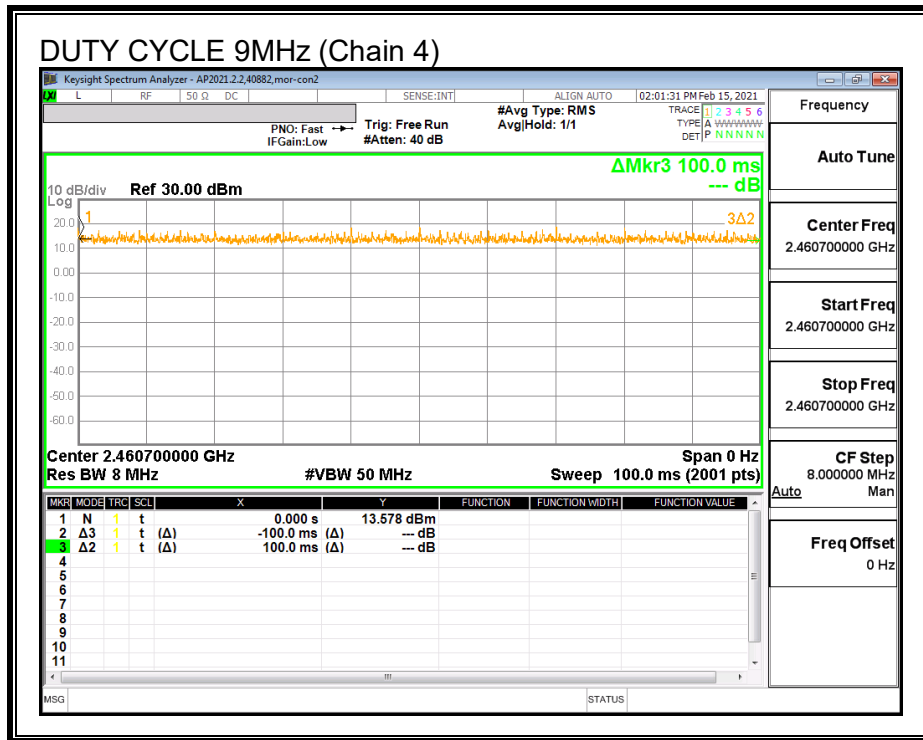
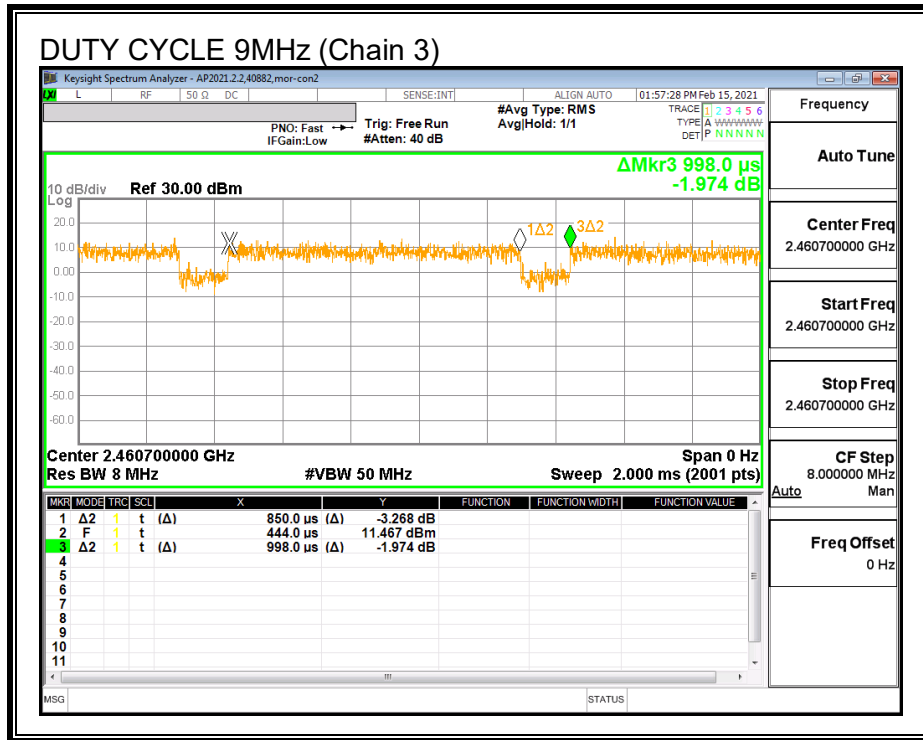




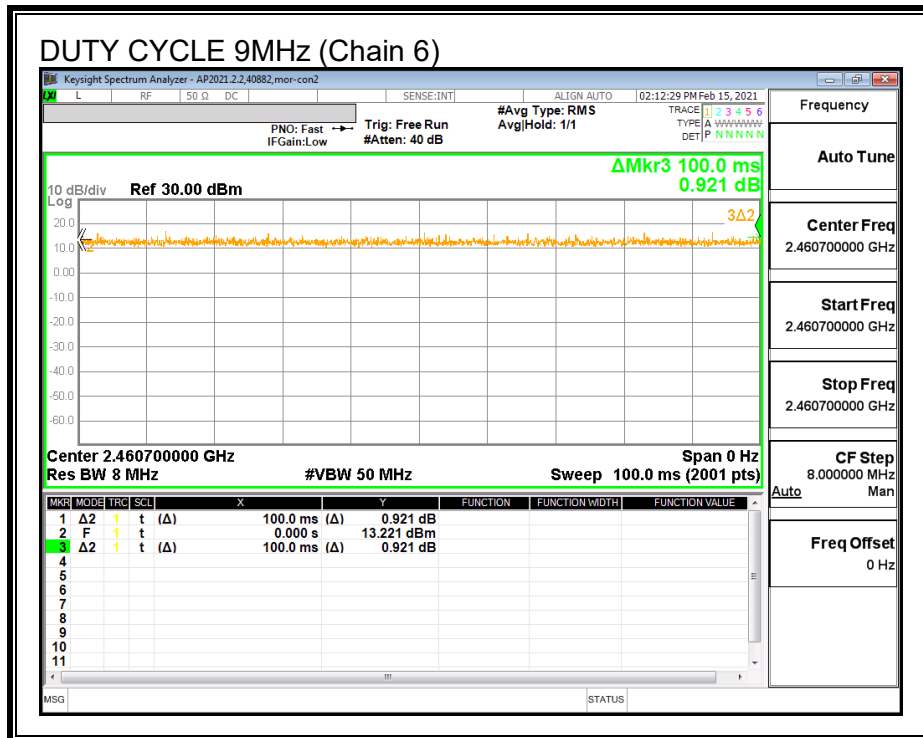
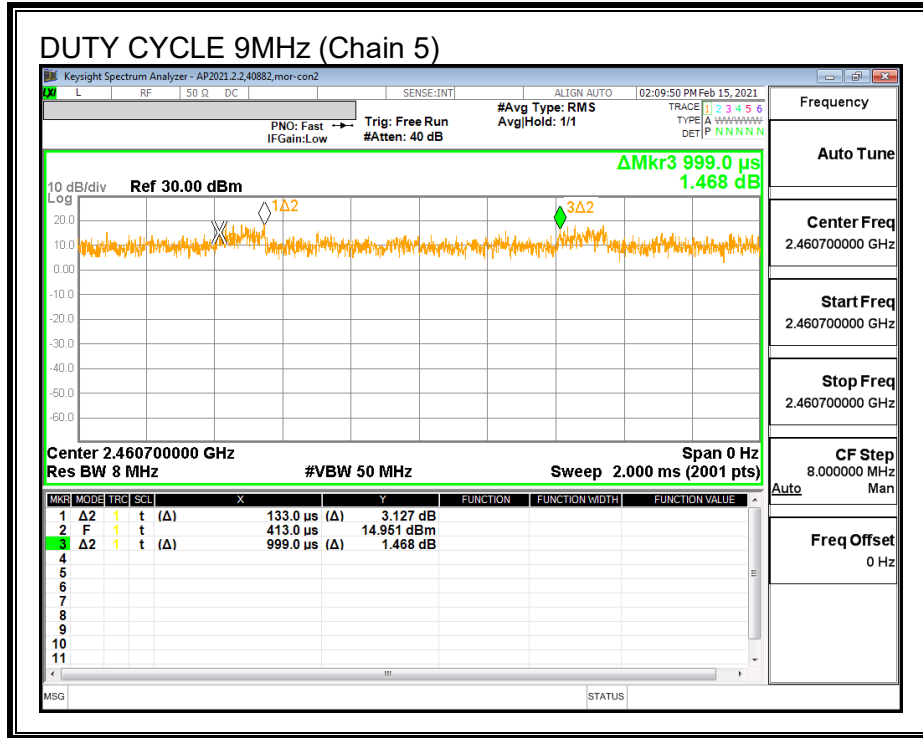


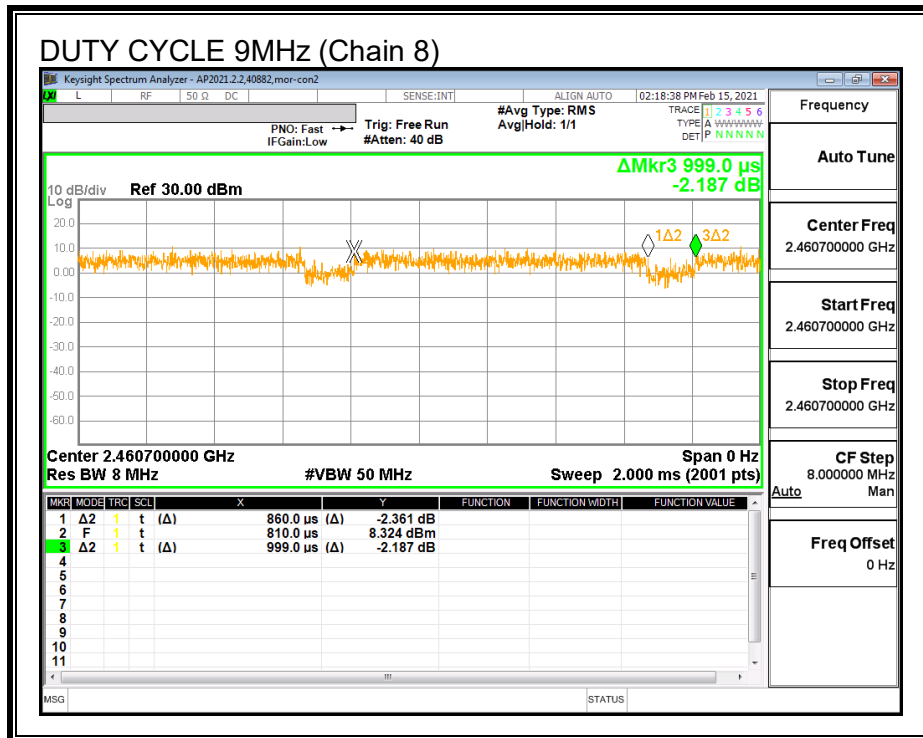
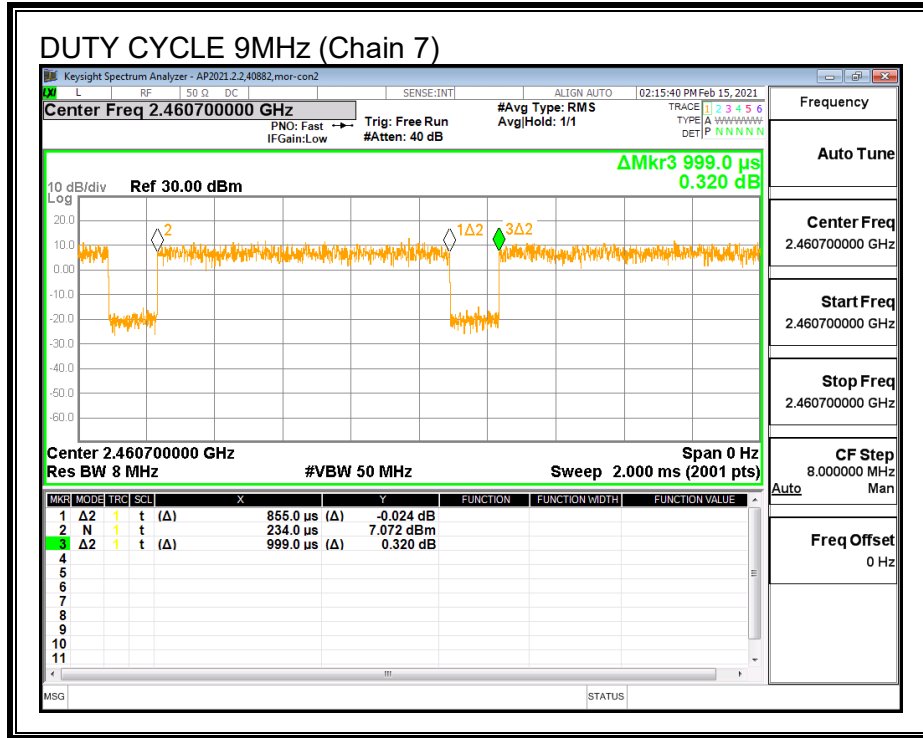






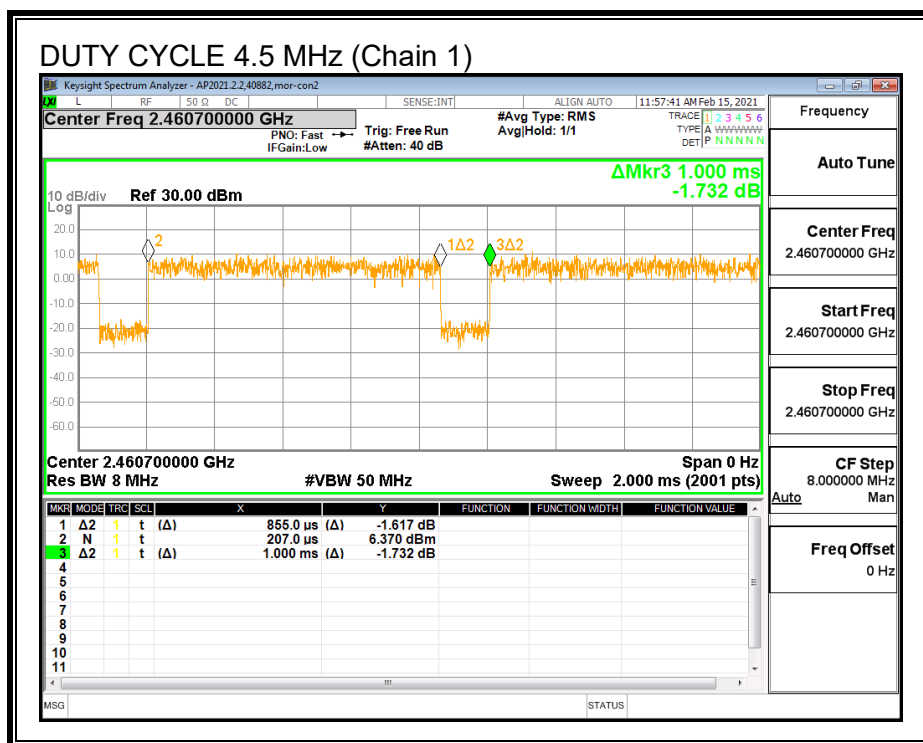


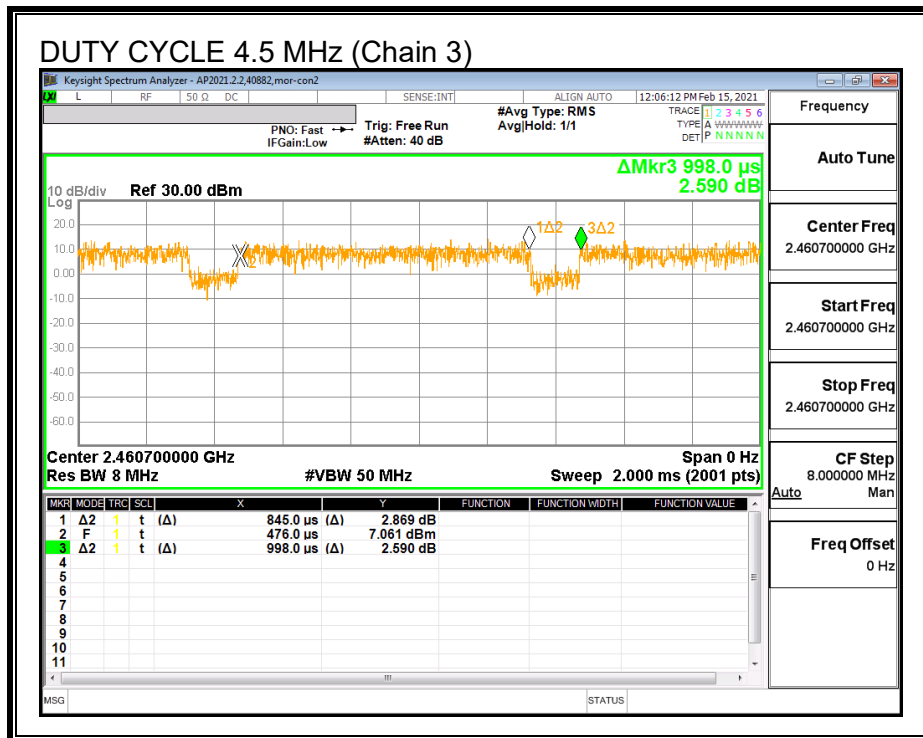
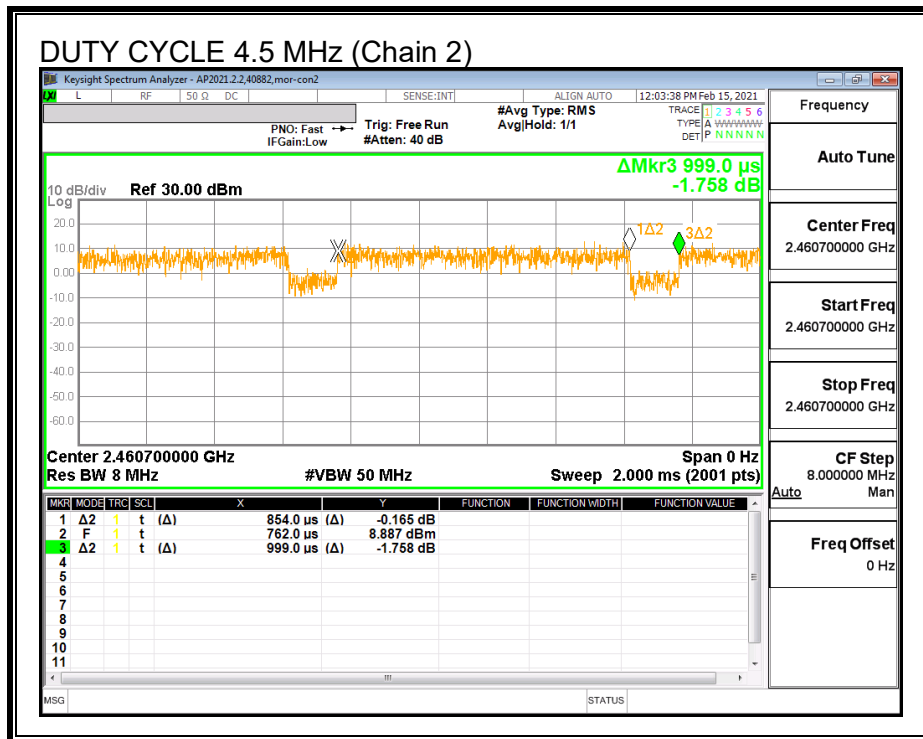


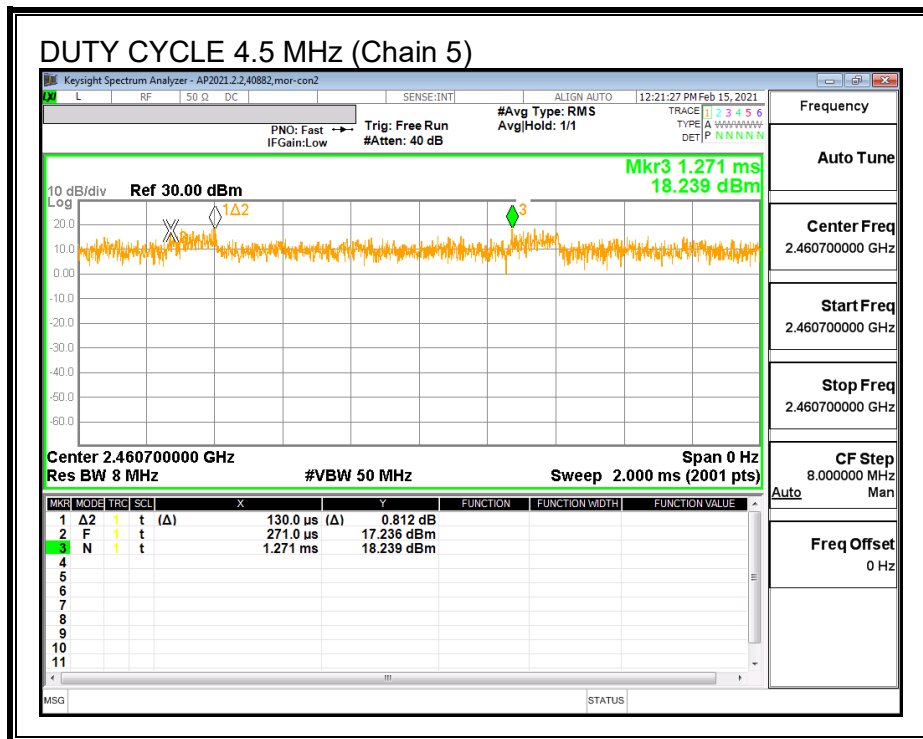
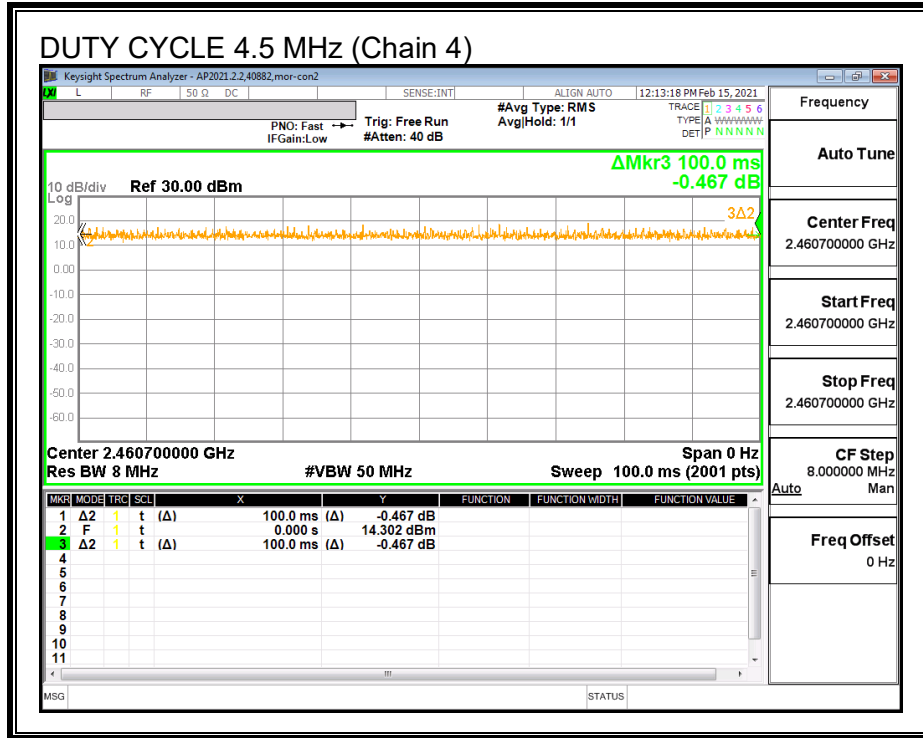


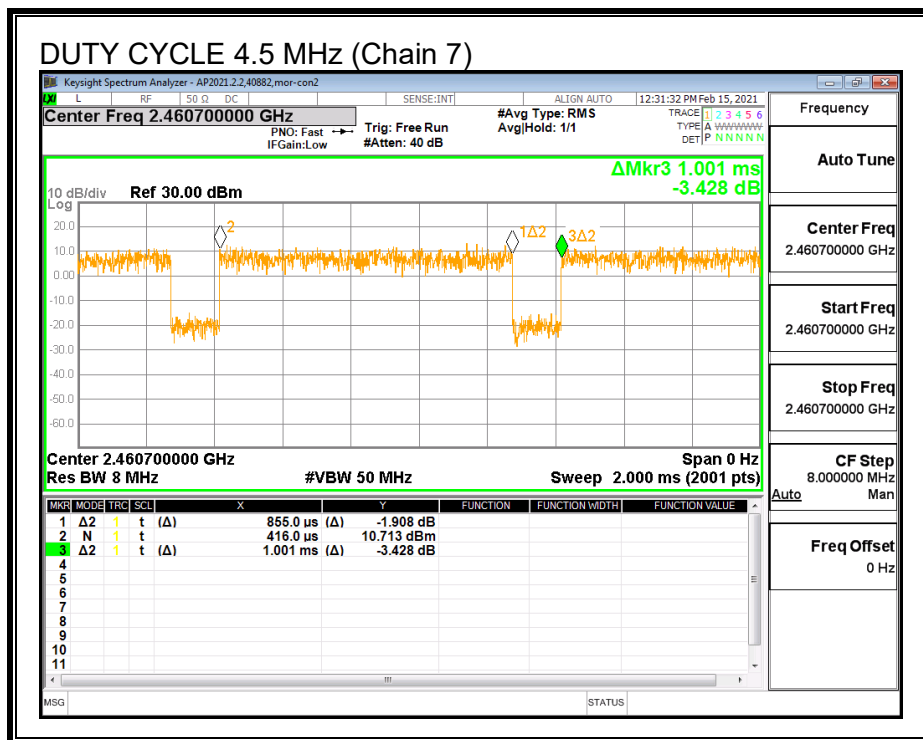
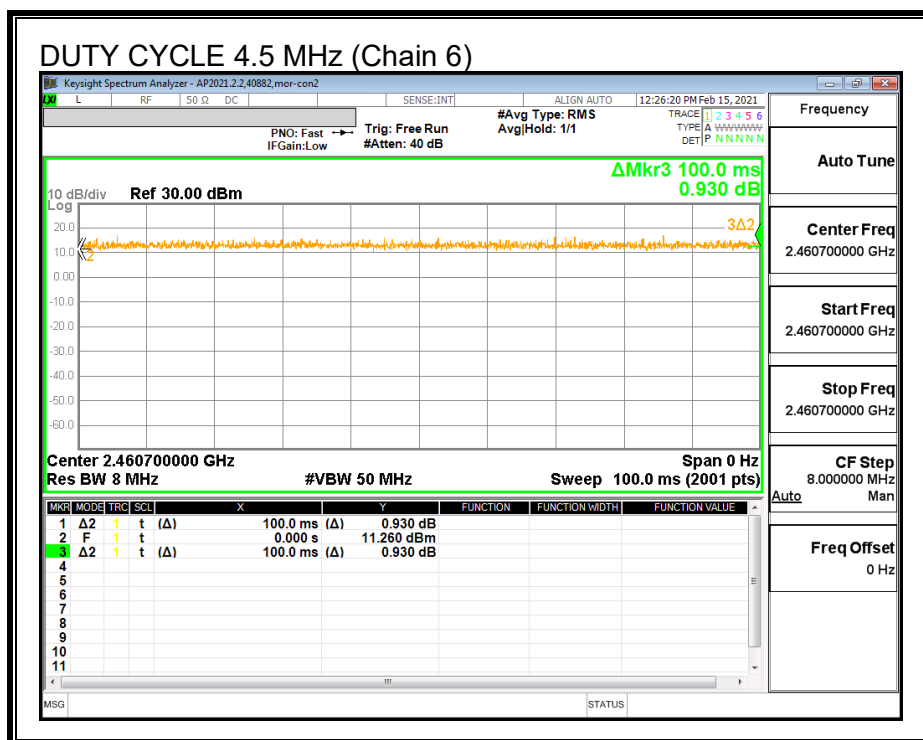
**ON TIME AND DUTY CYCLE RESULTS – 64-QAM**

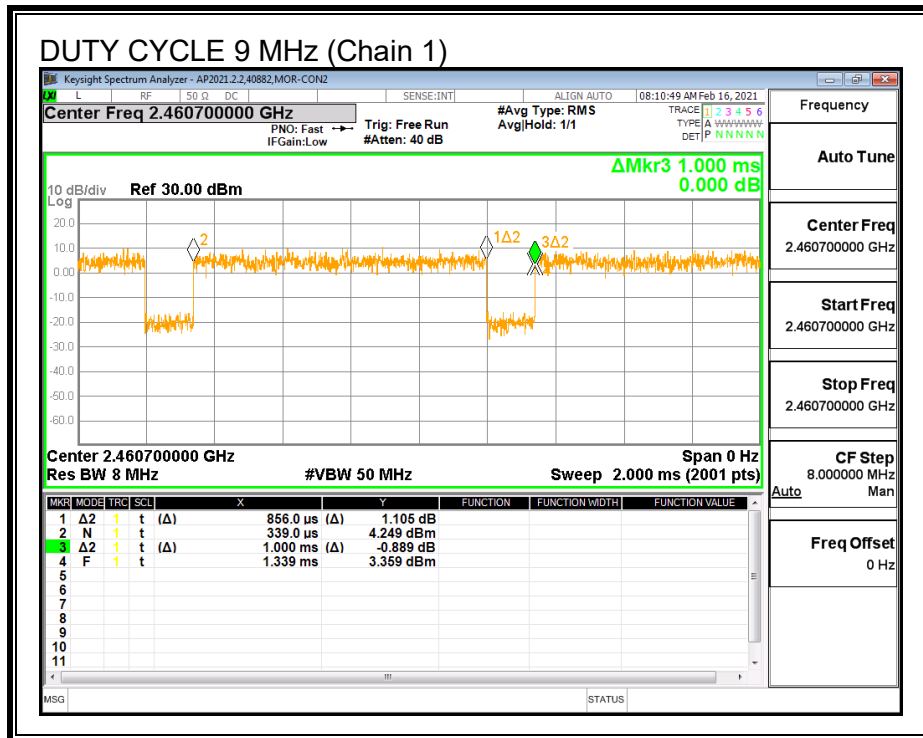
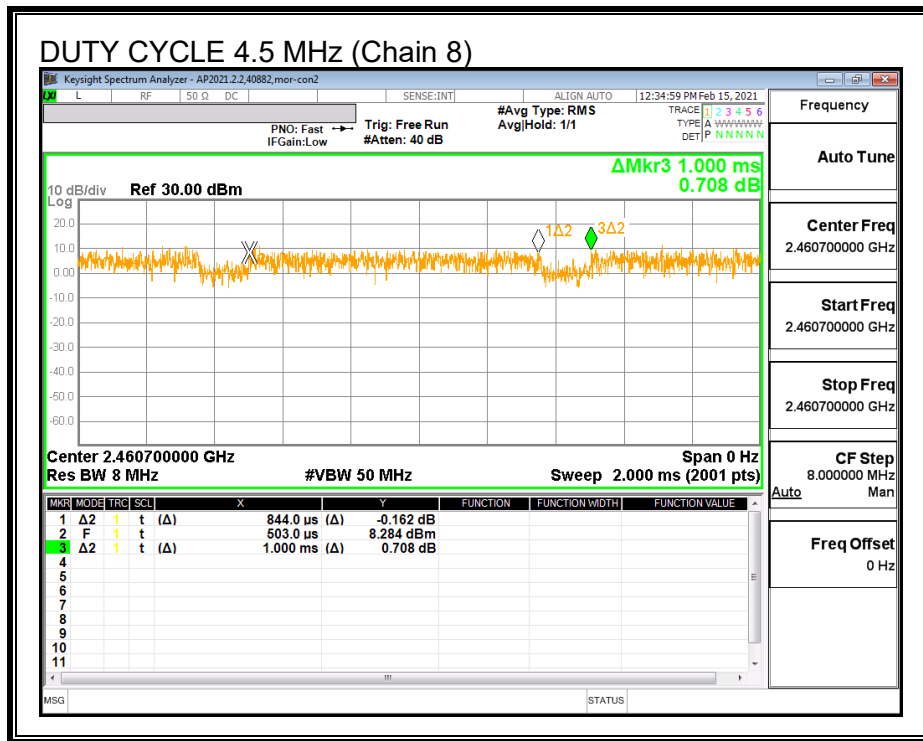
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.885	1.000	0.885	88.50%	1.06	1.130
Chain 2	0.854	0.999	0.855	85.49%	1.36	1.171
Chain 3	0.845	0.998	0.847	84.67%	1.45	1.183
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.130	1.271	0.102	10.23%	19.80	7.692
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.855	1.001	0.854	85.41%	1.37	1.170
Chain 8	0.844	1.000	0.844	84.40%	1.47	1.185
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.856	1.000	0.856	85.60%	1.35	1.168
Chain 2	0.856	1.009	0.848	84.84%	1.43	1.168
Chain 3	0.855	0.998	0.857	85.67%	1.34	1.170
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.135	1.000	0.135	13.50%	17.39	7.407
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.70%	1.34	1.167
Chain 8	0.855	0.999	0.856	85.59%	1.35	1.170

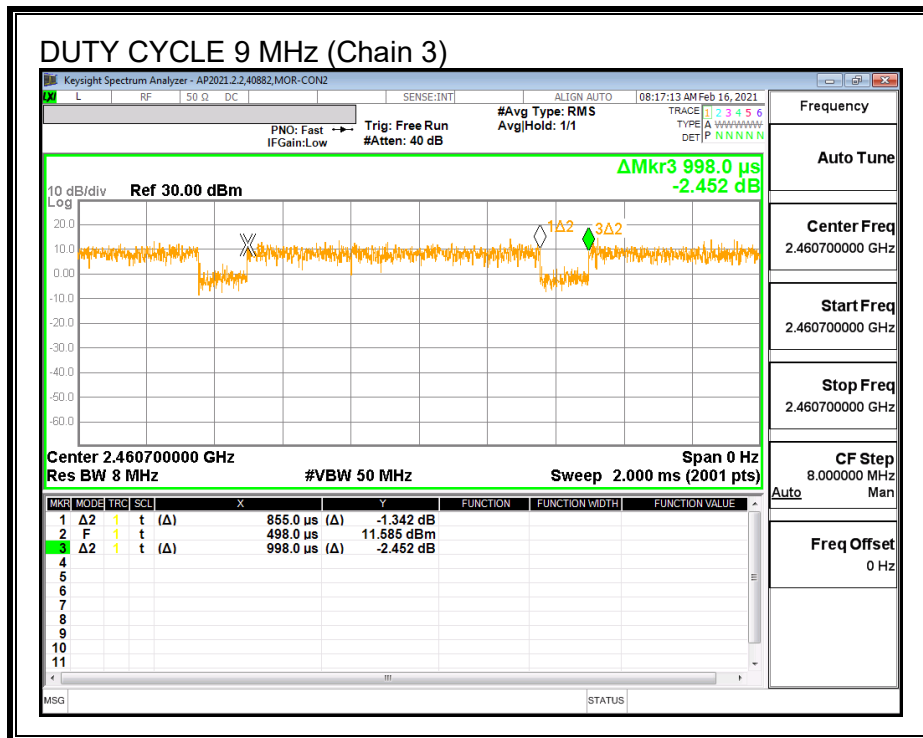
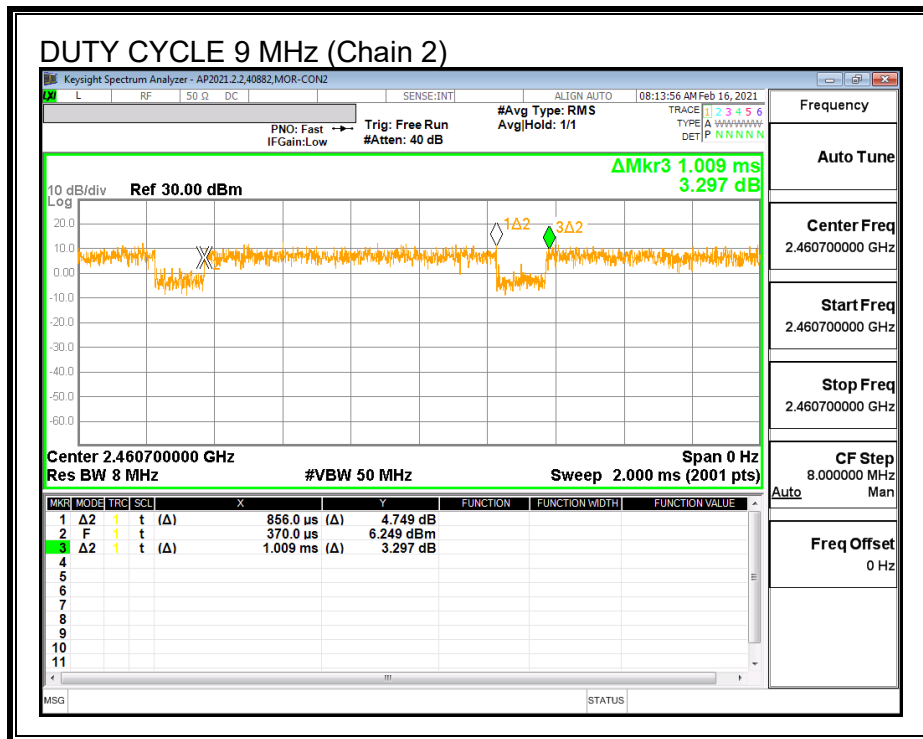




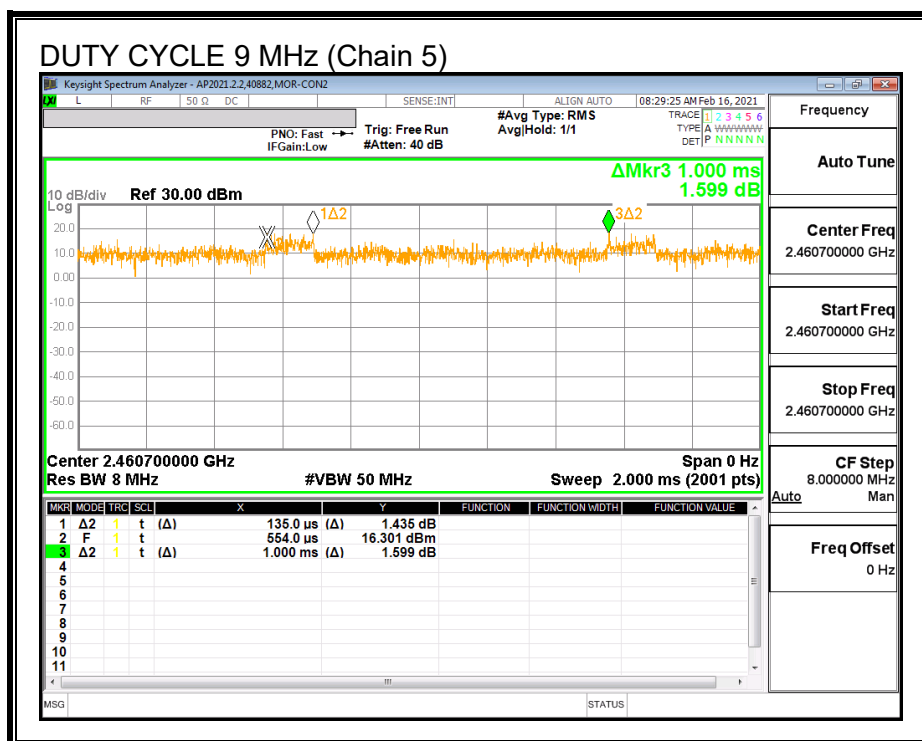
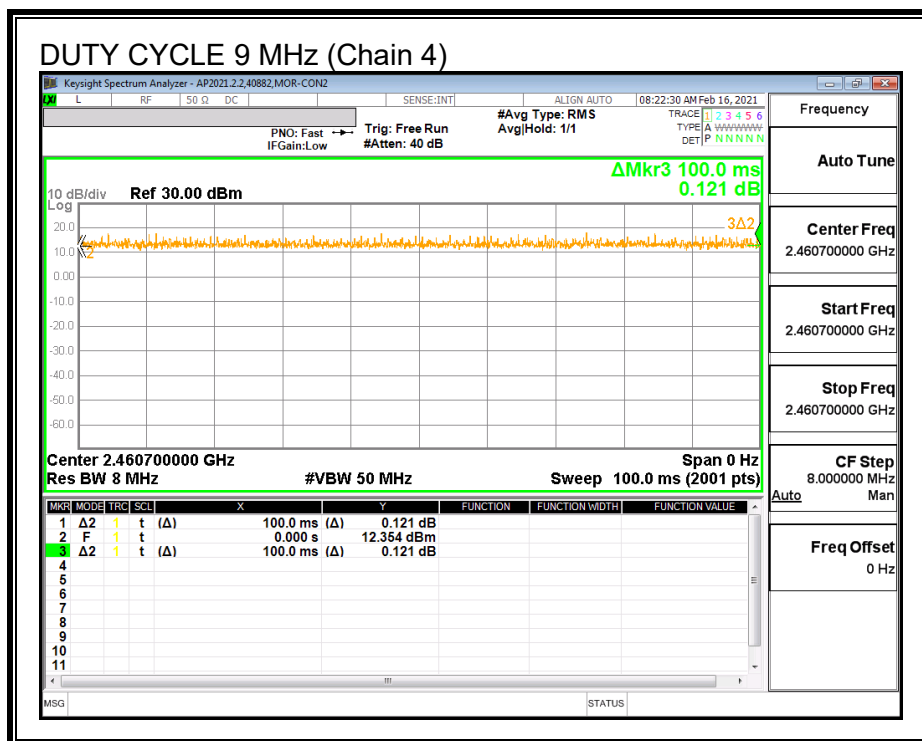


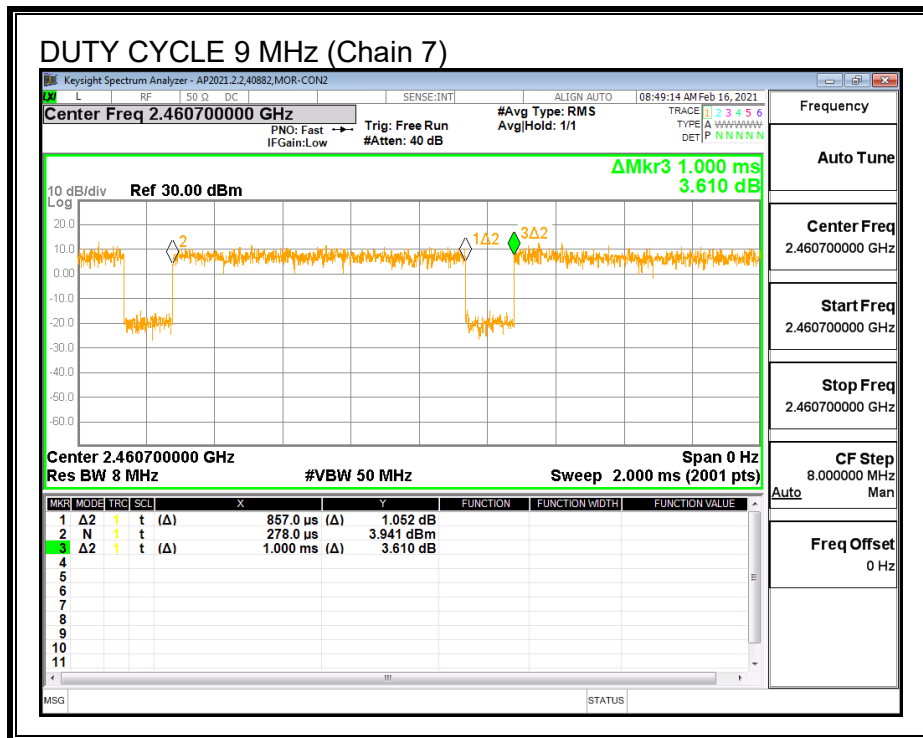
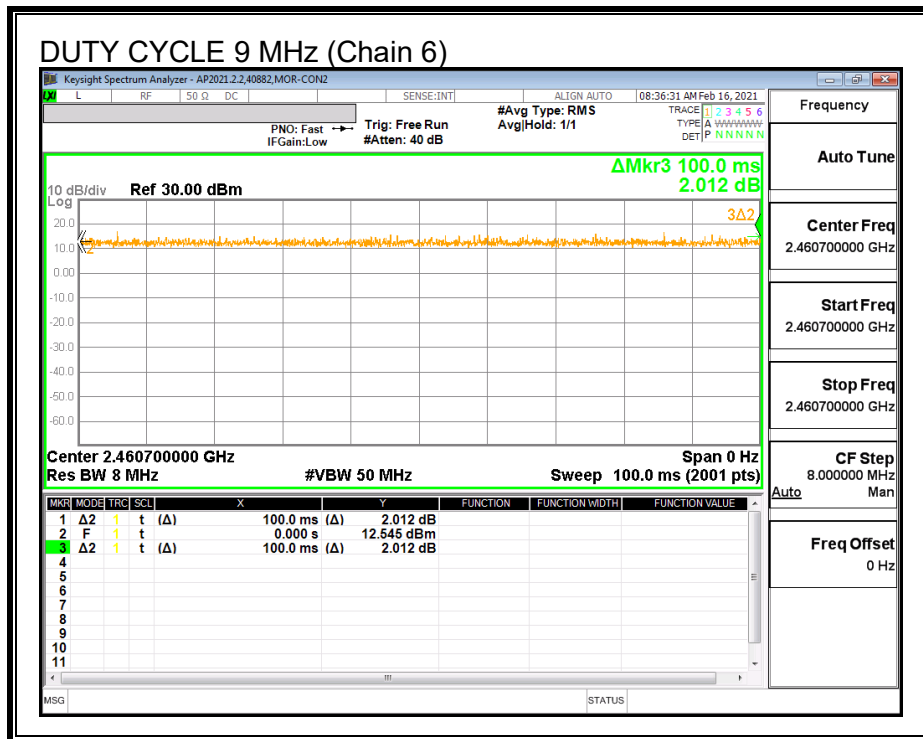


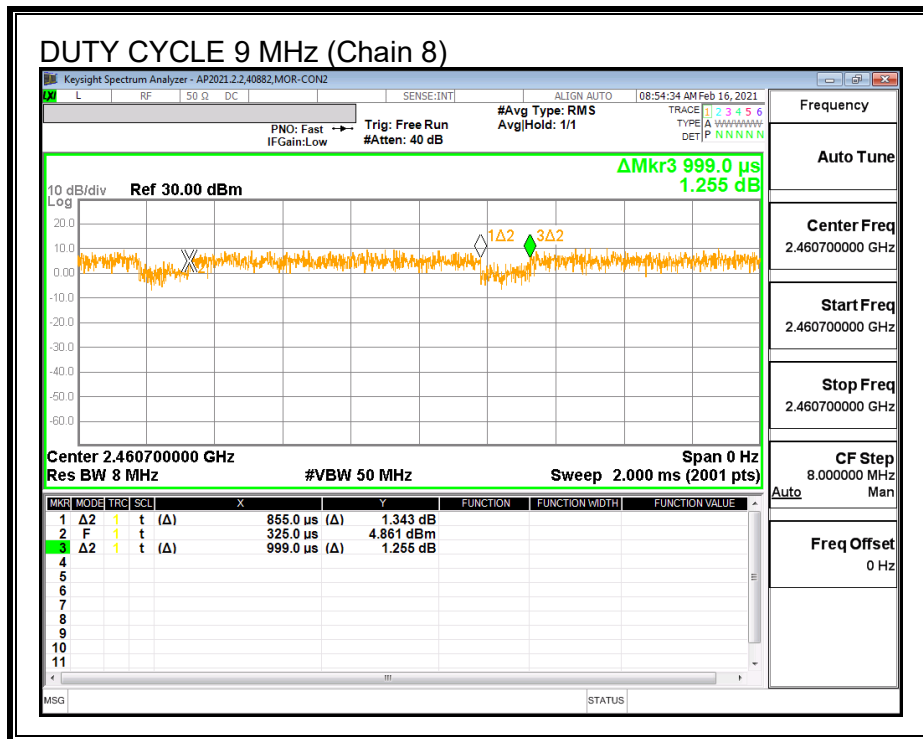












**10.2. 4.5 MHz MODE IN THE 2.4 GHz AUTHORIZED BAND**

**10.2.1. 6 dB BANDWIDTH**

**LIMITS**

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

**RESULTS - QPSK**

Channel	Frequency (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	6 dB BW Chain 3 (MHz)	6 dB BW Chain 4 (MHz)	Minimum Limit (MHz)
Low	2448.2	4.510	4.490	4.530	4.490	0.5
Mid	2460.7	4.480	4.540	4.490	4.520	0.5
High	2473.2	4.490	4.510	4.490	4.360	0.5

Channel	Frequency (MHz)	6 dB BW Chain 5 (MHz)	6 dB BW Chain 6 (MHz)	6 dB BW Chain 7 (MHz)	6 dB BW Chain 8 (MHz)	Minimum Limit (MHz)
Low	2448.2	4.460	4.500	4.520	4.540	0.5
Mid	2460.7	4.460	4.480	4.510	4.510	0.5
High	2473.2	4.470	4.490	4.460	4.470	0.5

