

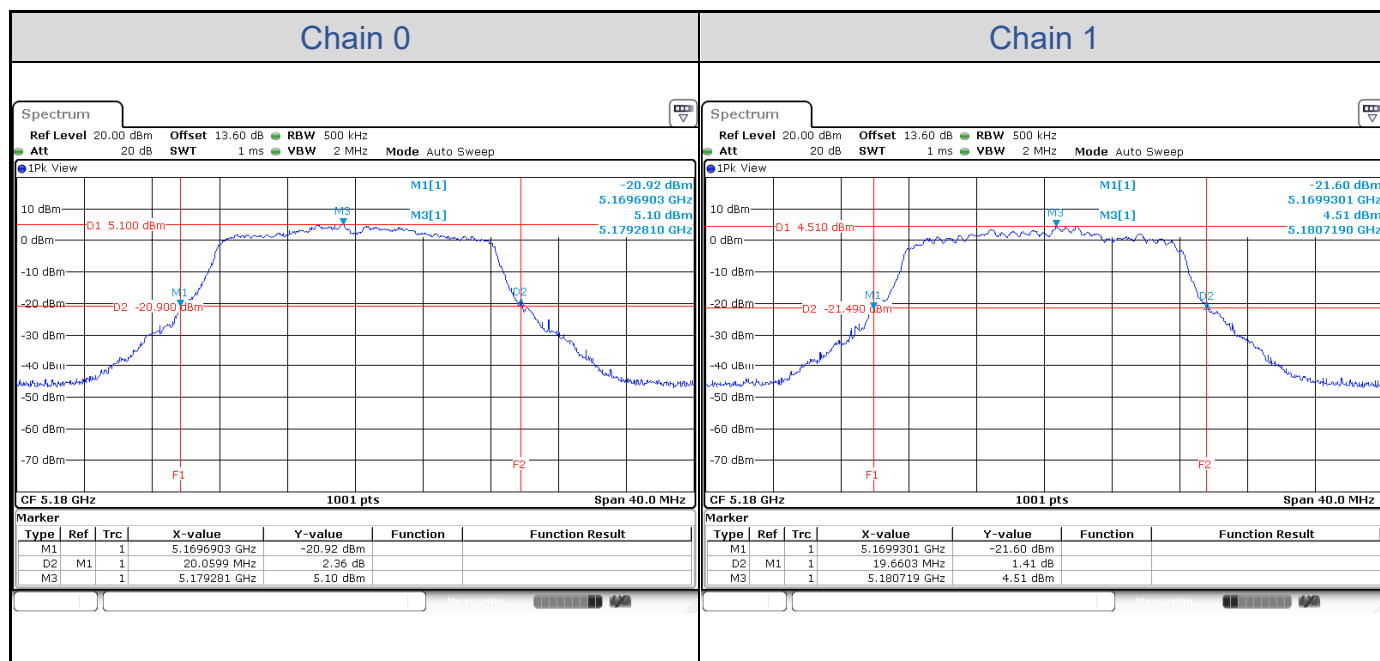
Appendix A: Test Results of Conducted Test (Spruce_Panel antenna)

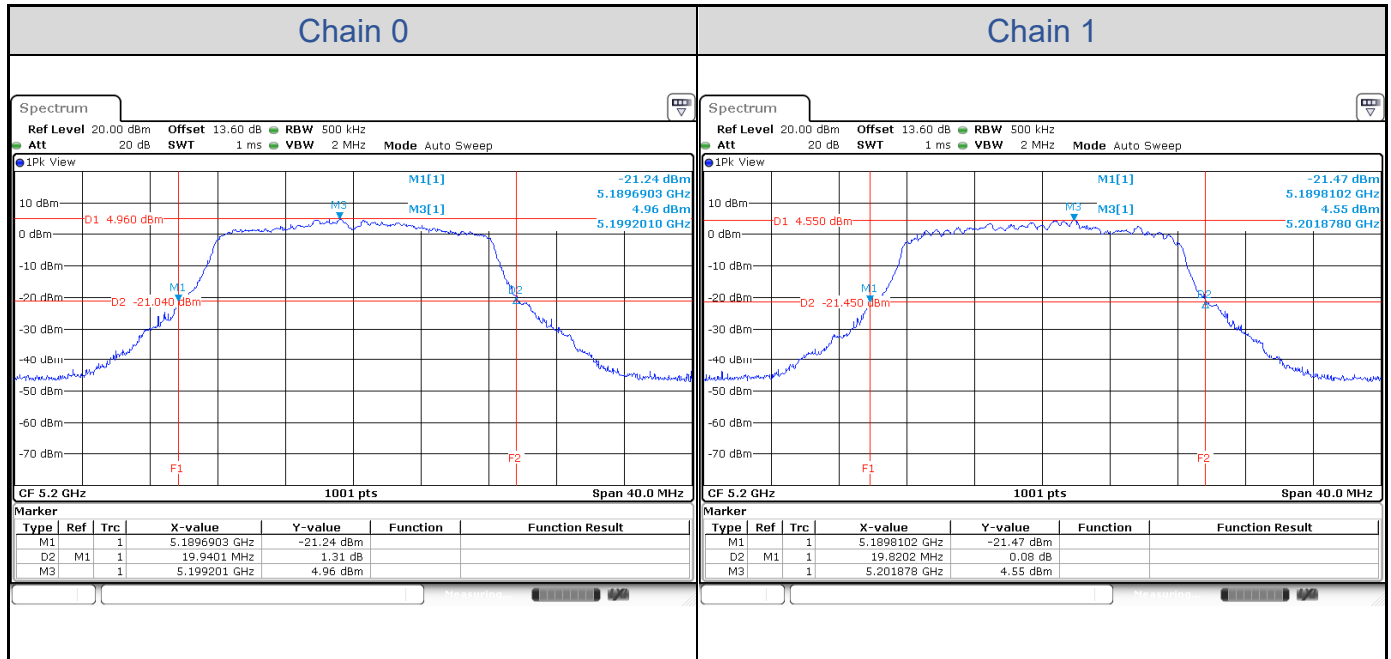
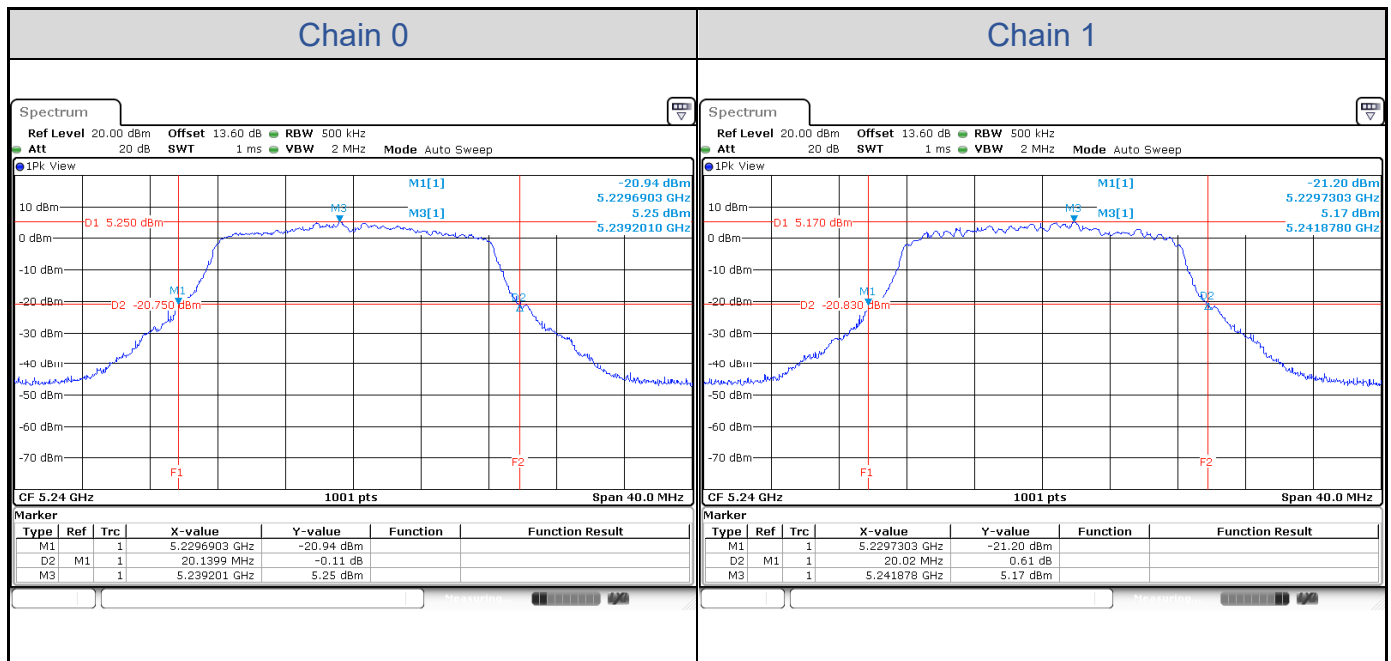
Test Result of 26 dB Bandwidth

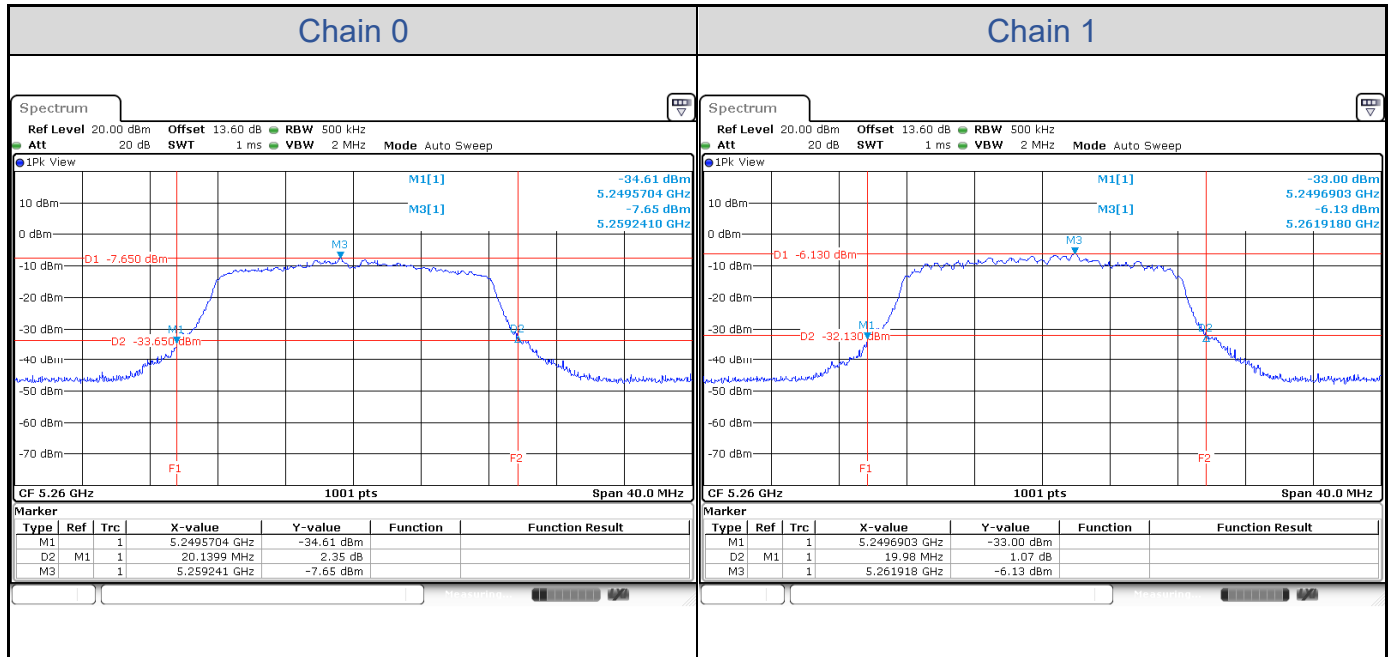
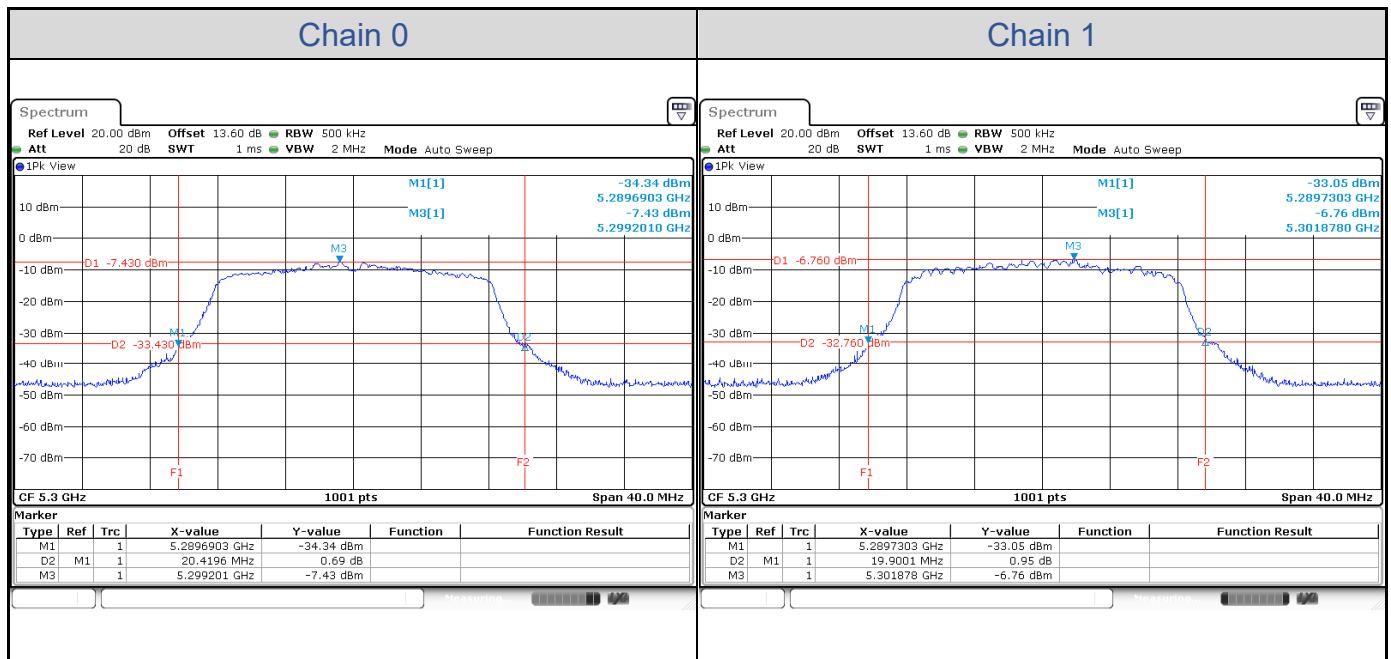
802.11a

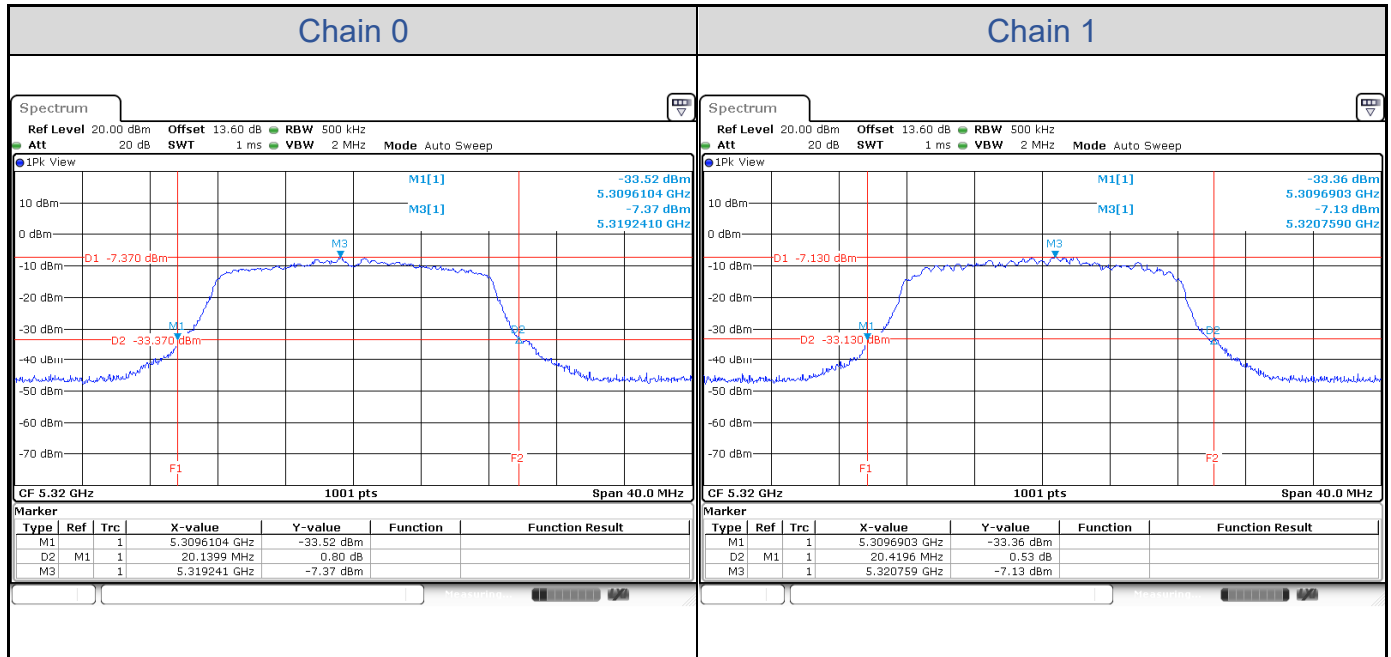
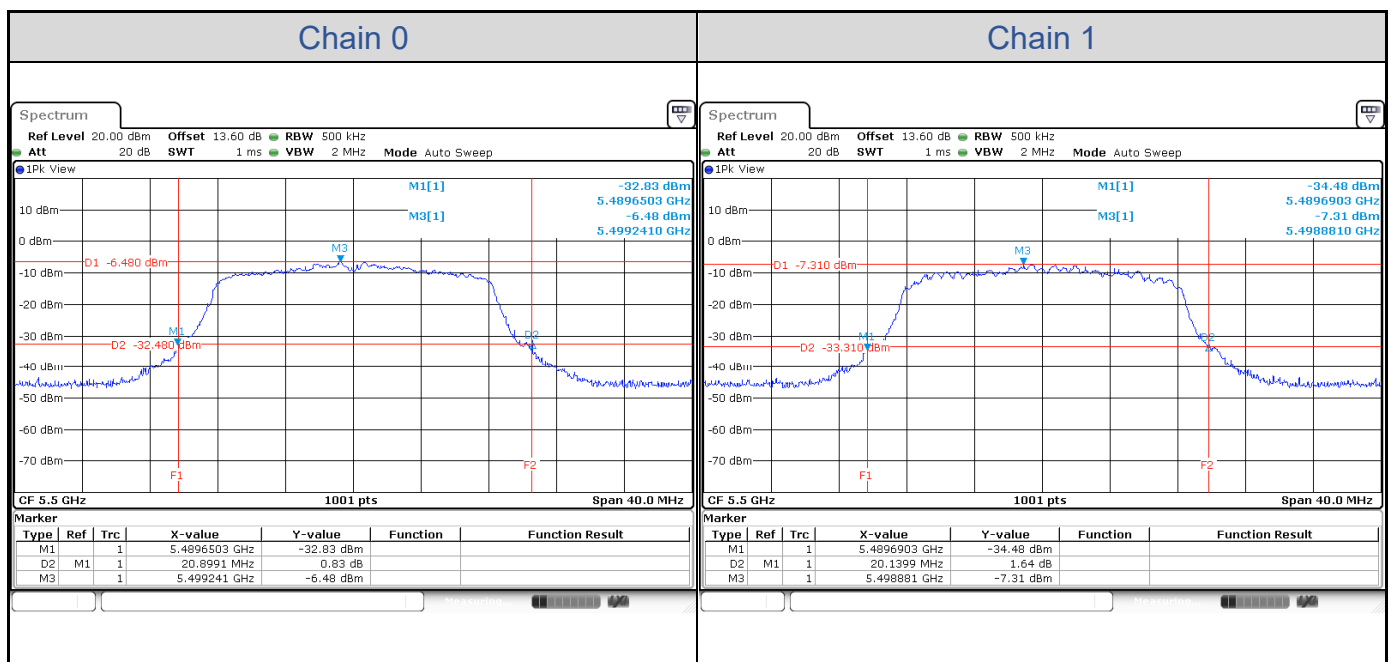
Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	36	5180	20.06	19.66
	40	5200	19.94	19.82
	48	5240	20.14	20.02
U-NII-2A	52	5260	20.14	19.98
	60	5300	20.42	19.90
	64	5320	20.14	20.42
U-NII-2C	100	5500	20.90	20.14
	116	5580	20.74	19.98
	140	5700	20.78	19.94

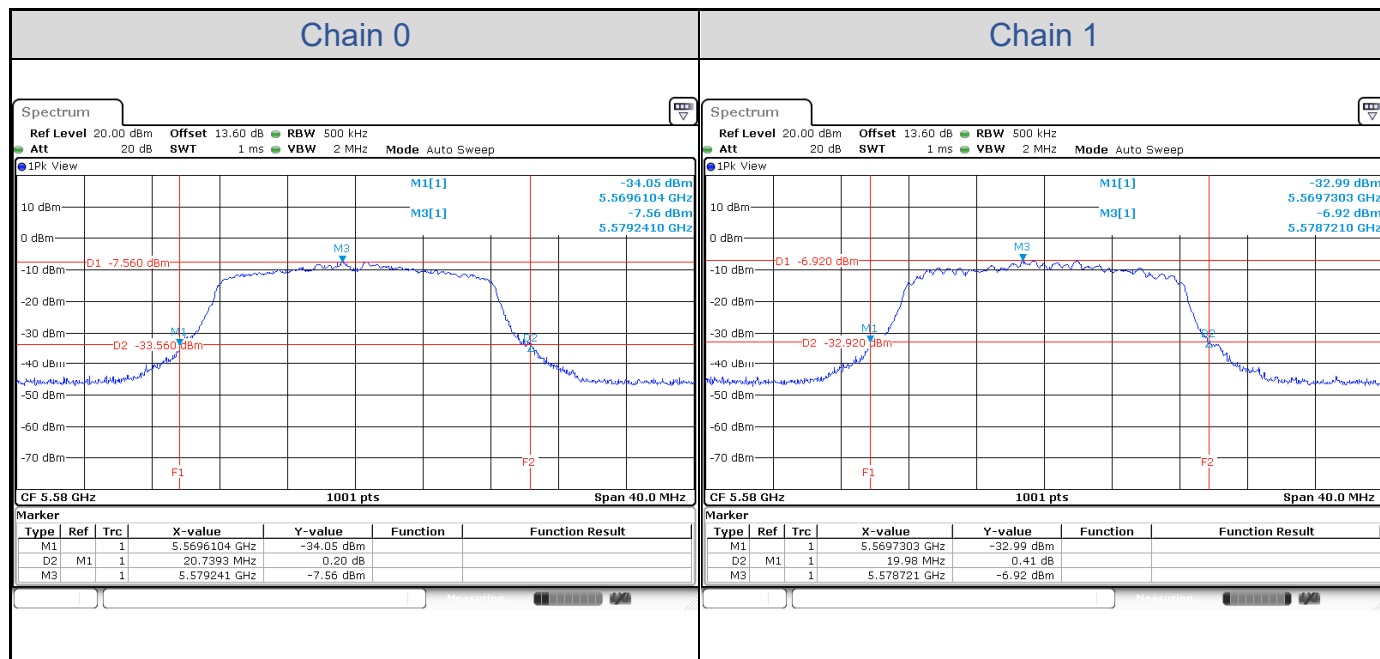
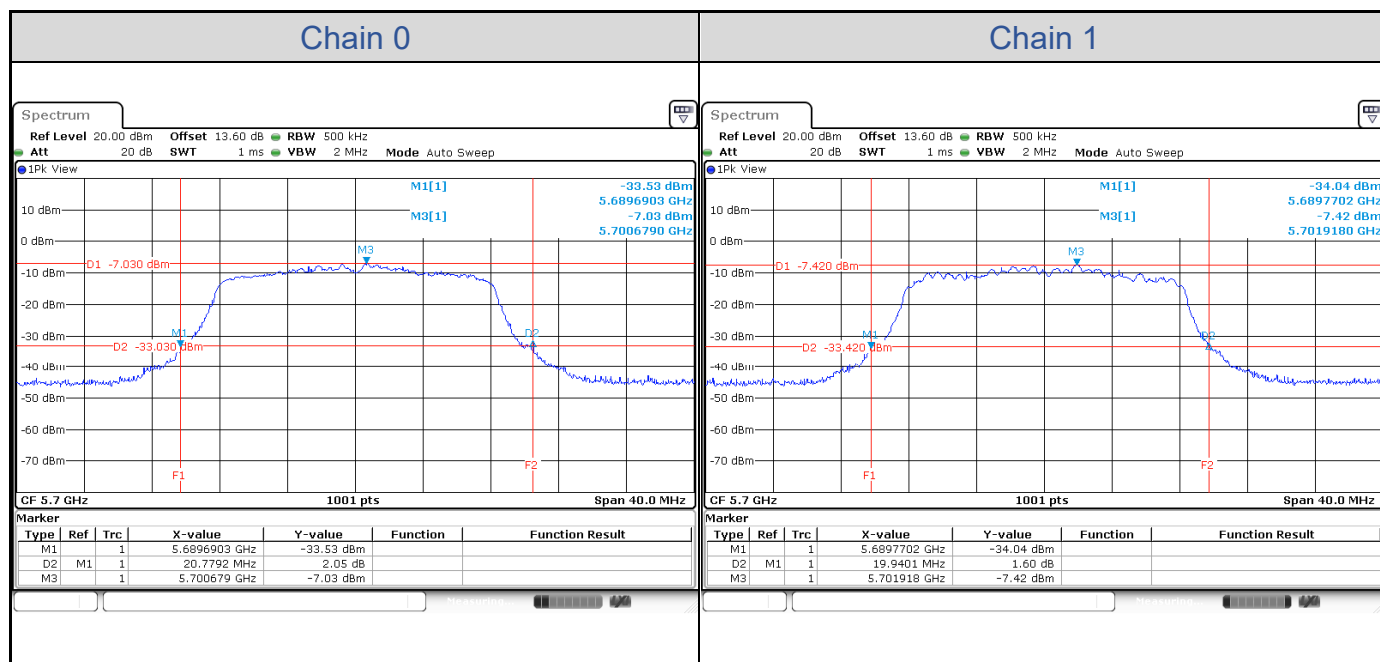
802.11a-Channel 36



802.11a-Channel 40

802.11a-Channel 48


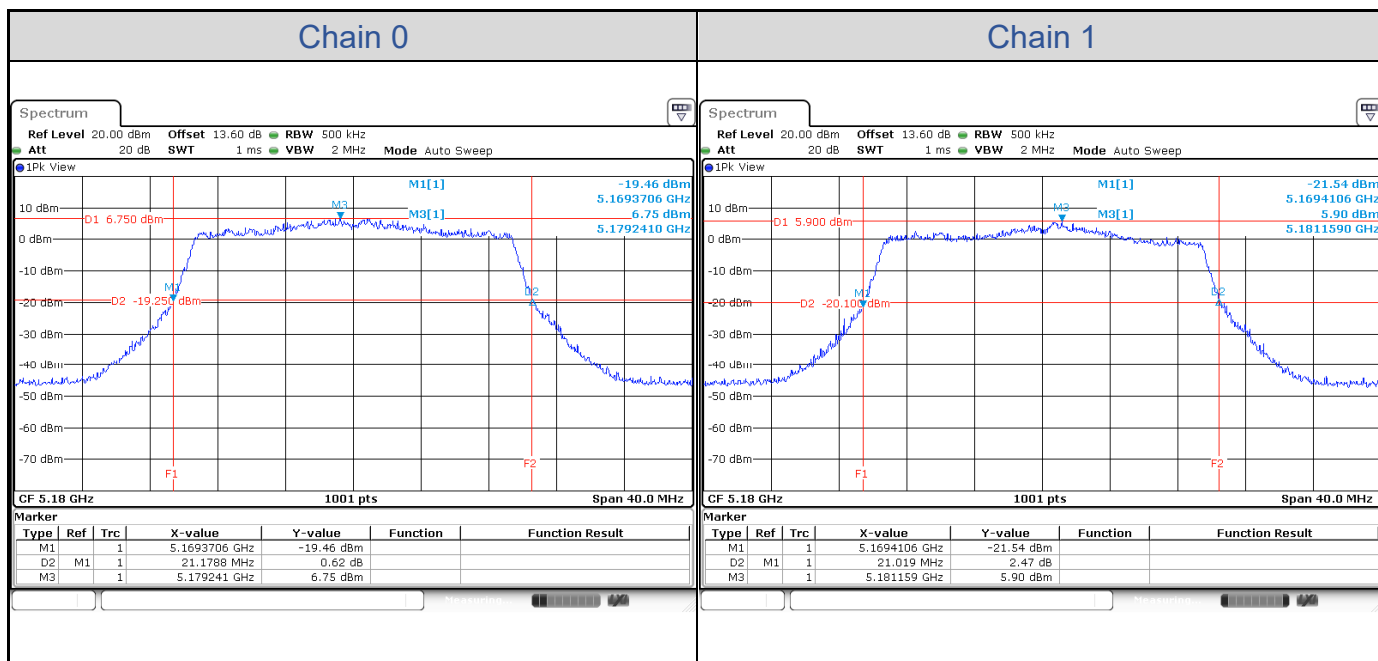
802.11a-Channel 52

802.11a-Channel 60


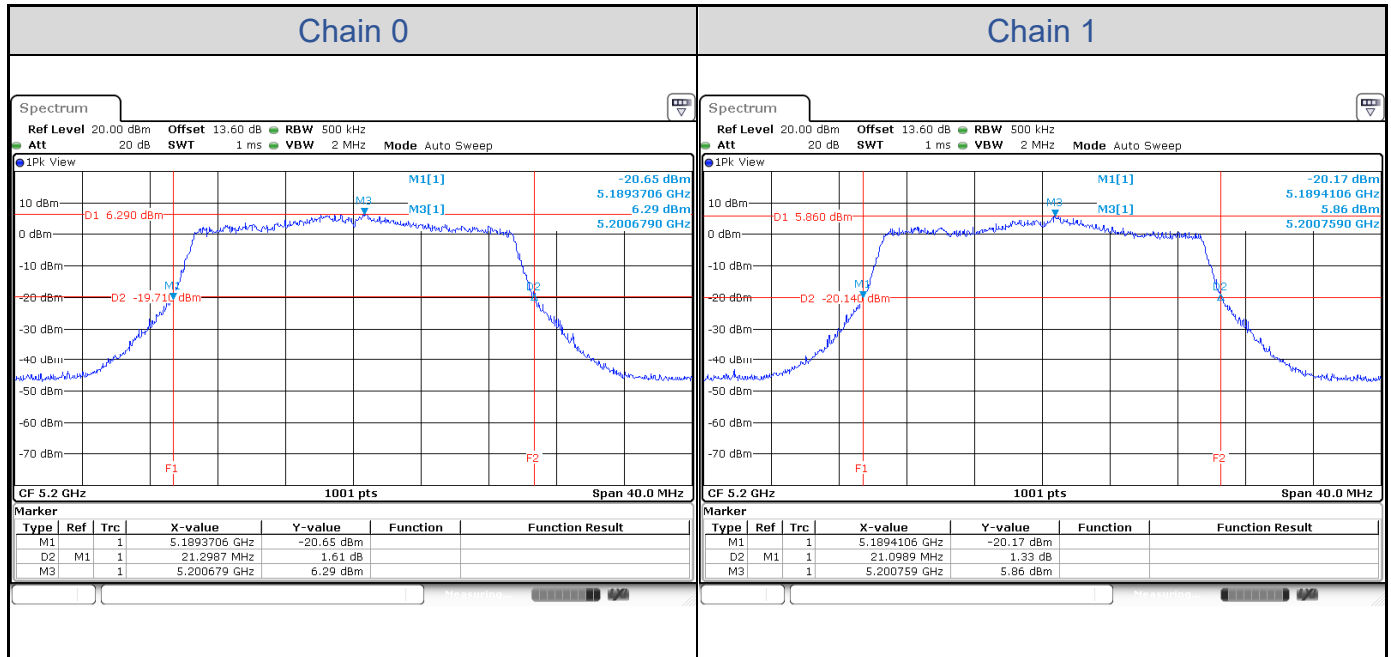
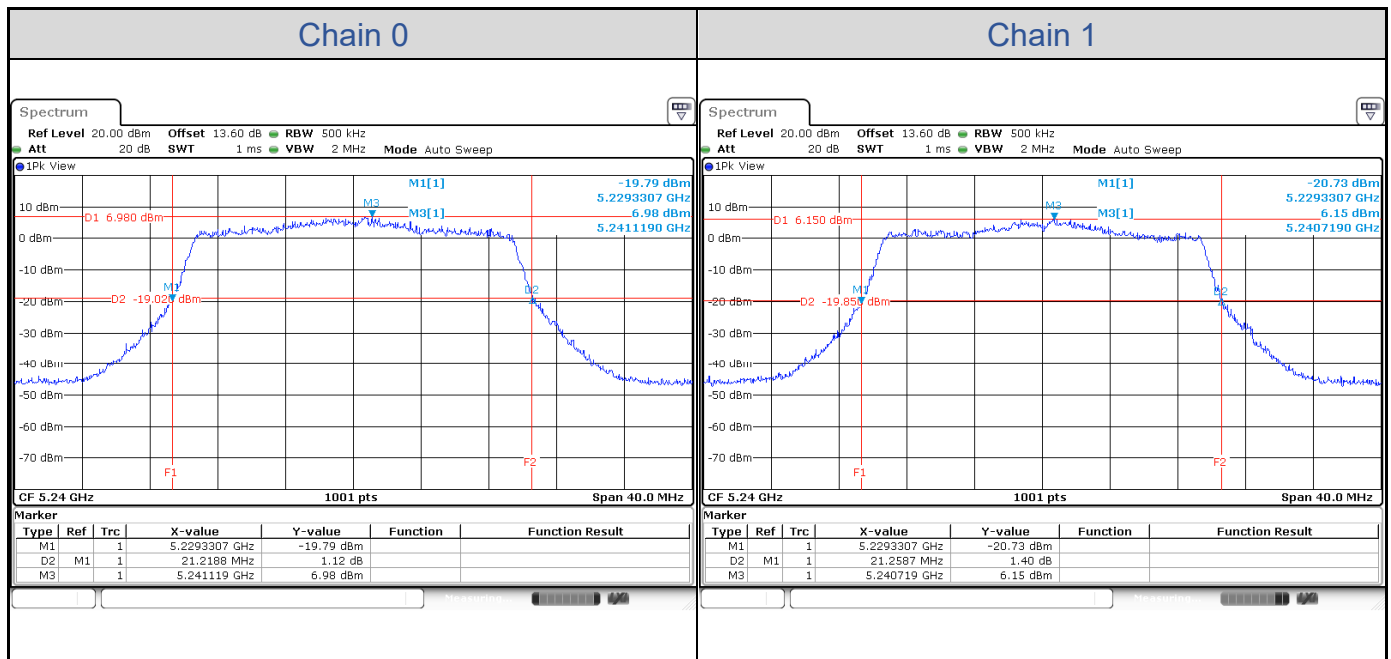
802.11a-Channel 64

802.11a-Channel 100


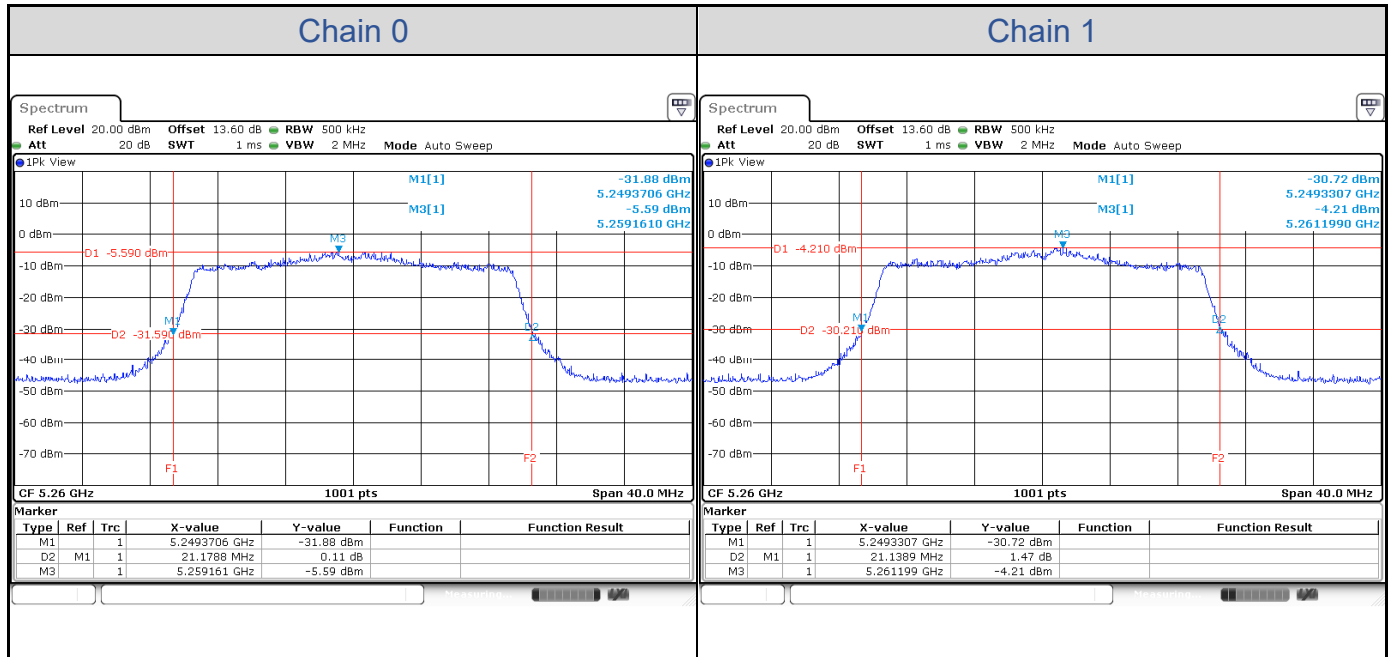
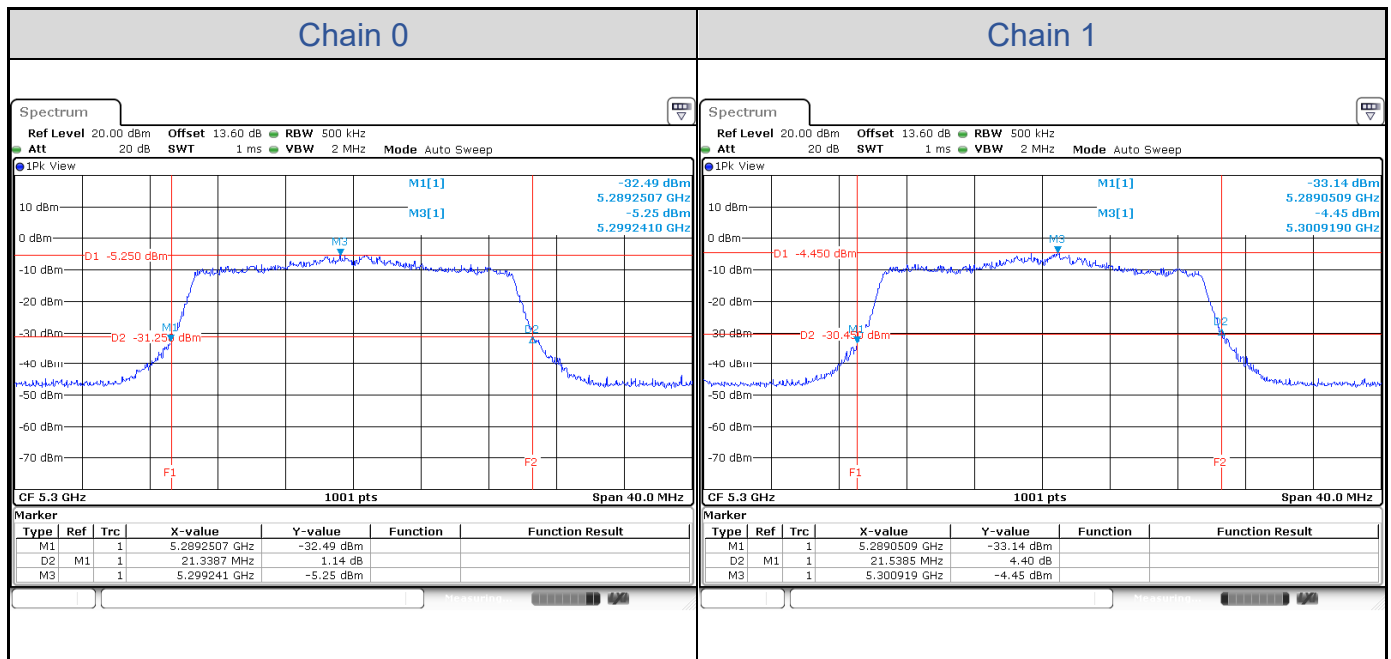
802.11a-Channel 116

802.11a-Channel 140


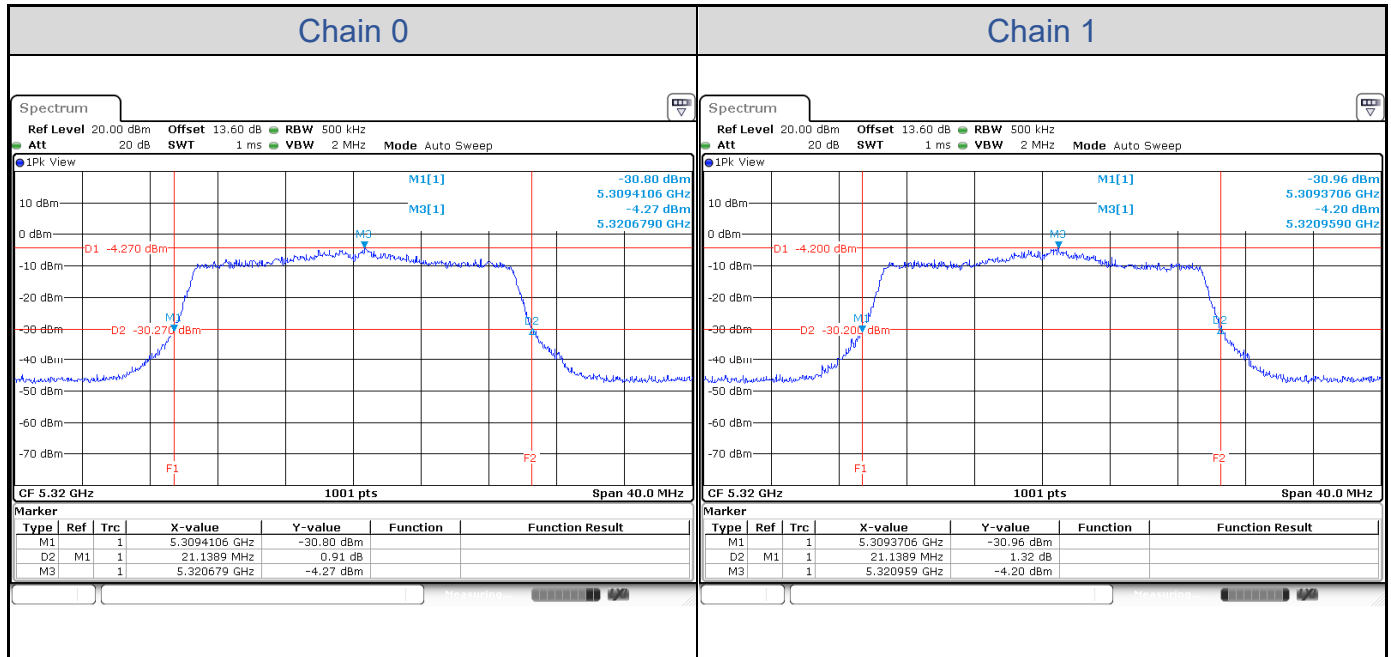
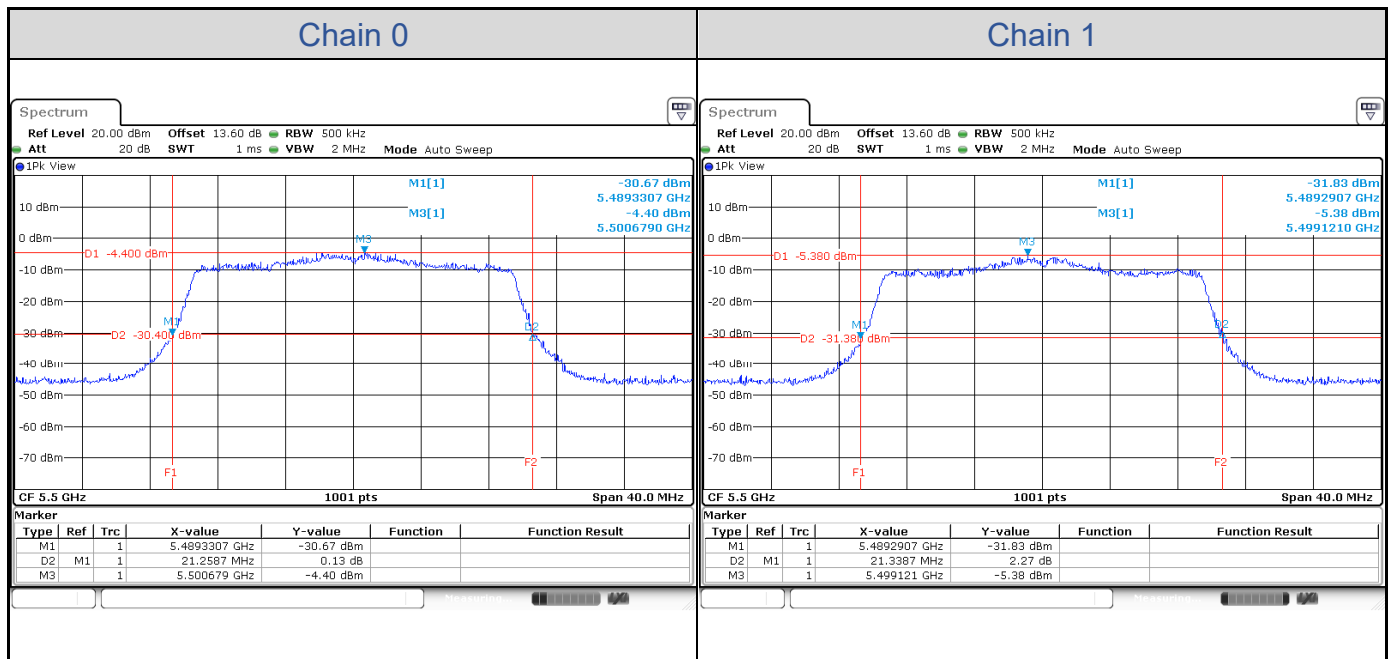
802.11ax HE20

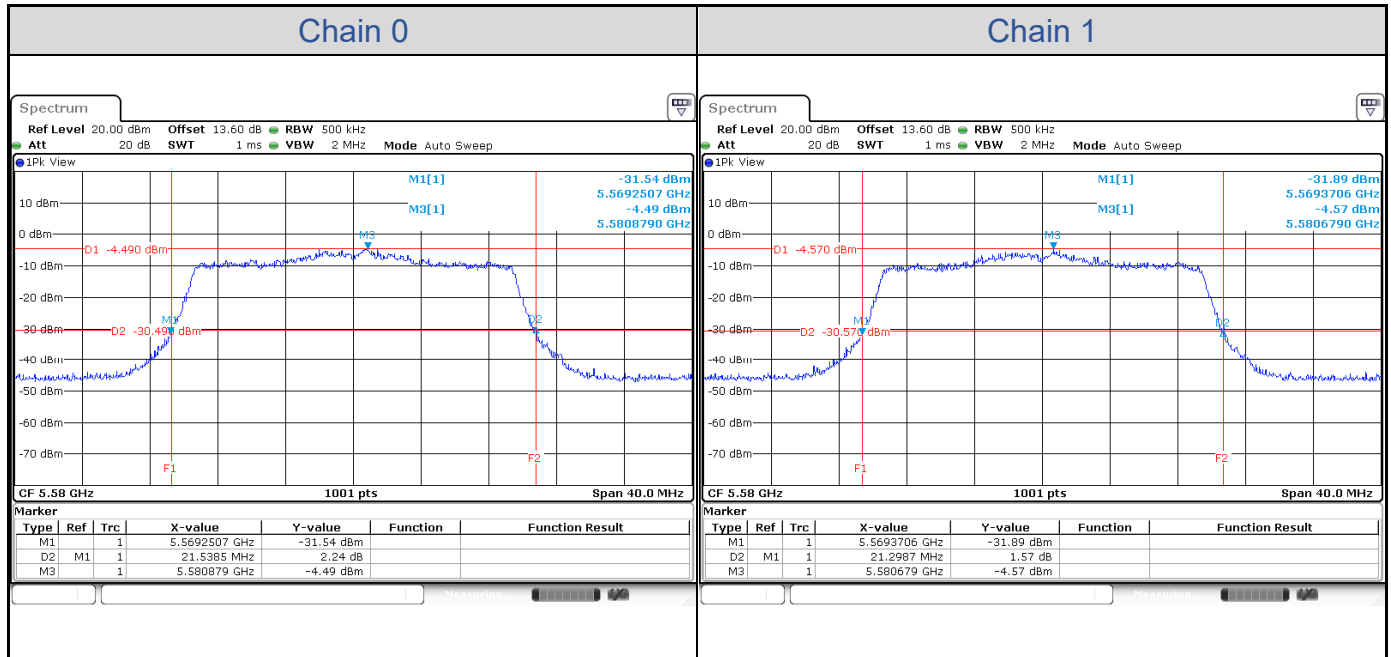
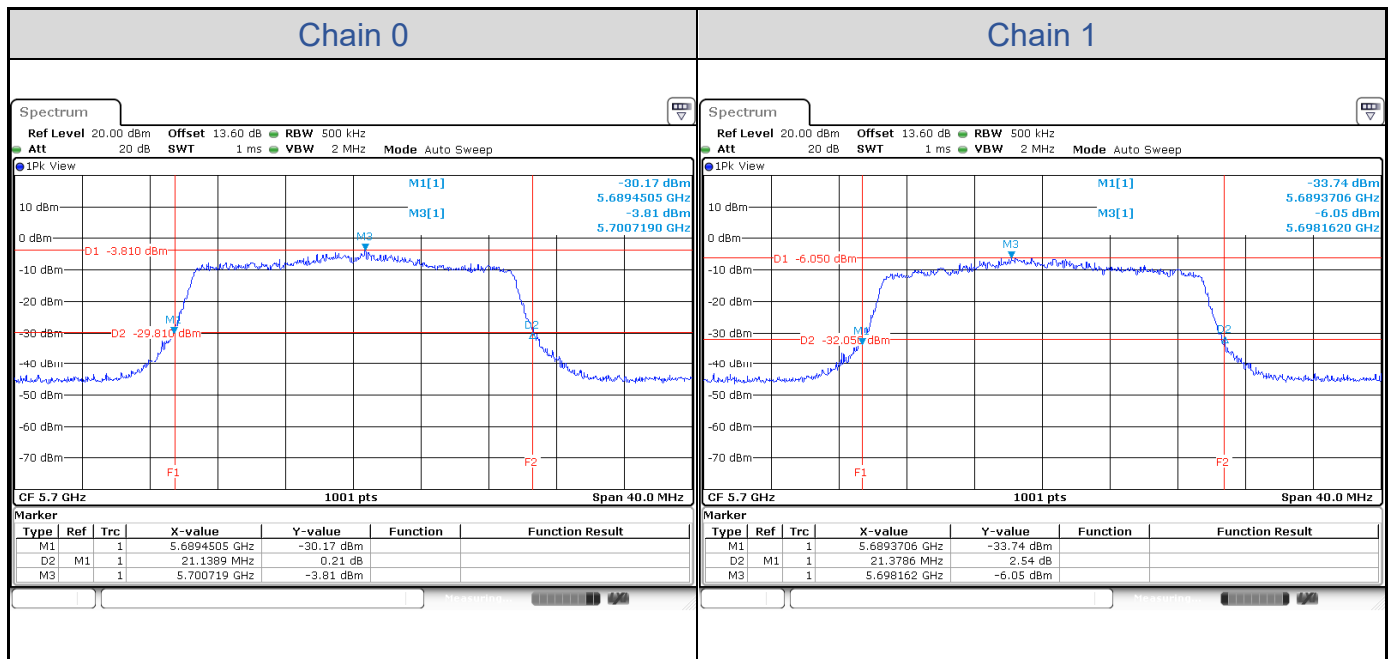
Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	36	5180	21.18	21.02
	40	5200	21.30	21.10
	48	5240	21.22	21.26
U-NII-2A	52	5260	21.18	21.14
	60	5300	21.34	21.54
	64	5320	21.14	21.14
U-NII-2C	100	5500	21.26	21.34
	116	5580	21.54	21.30
	140	5700	21.14	21.38

802.11ax HE20-Channel 36


802.11ax HE20-Channel 40

802.11ax HE20-Channel 48


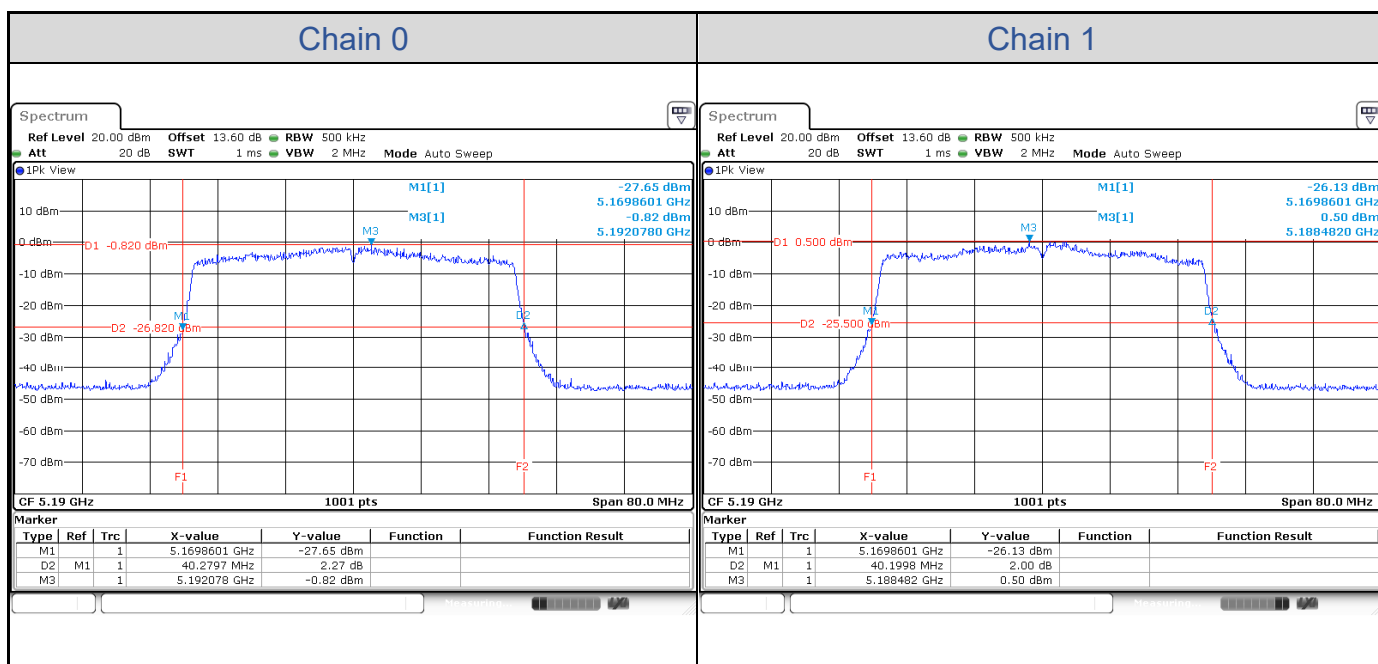
802.11ax HE20-Channel 52

802.11ax HE20-Channel 60


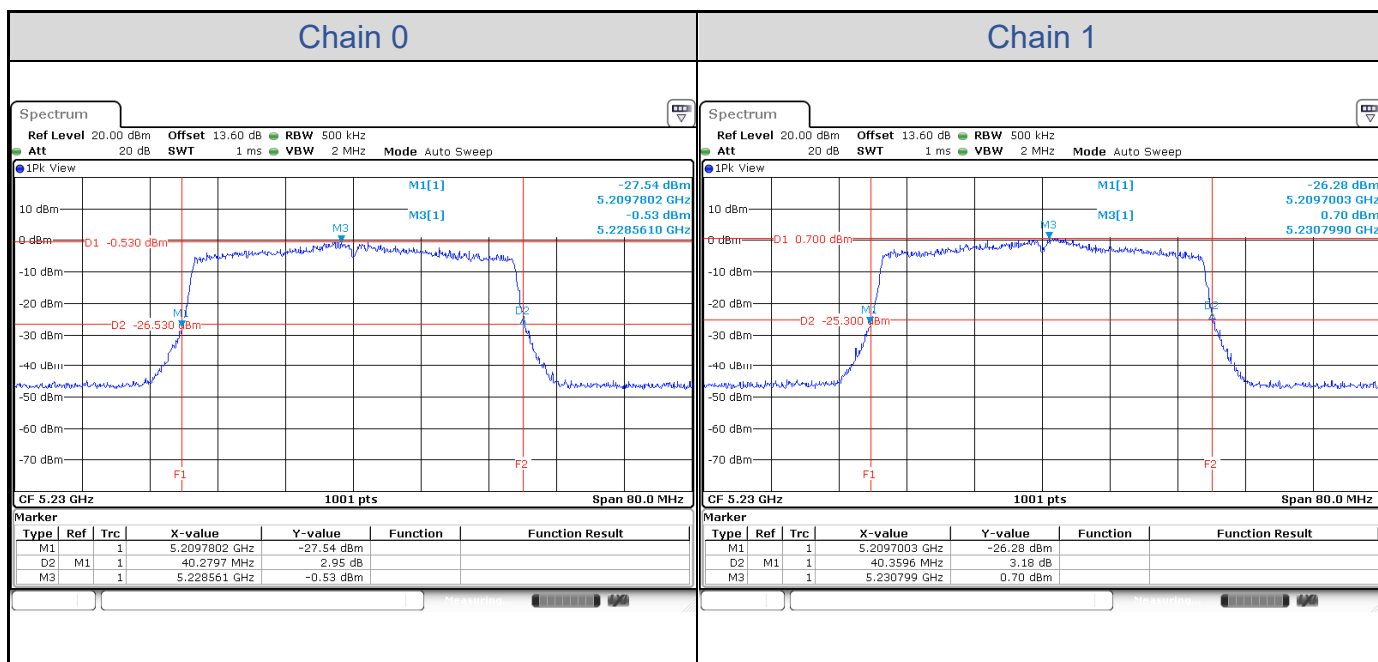
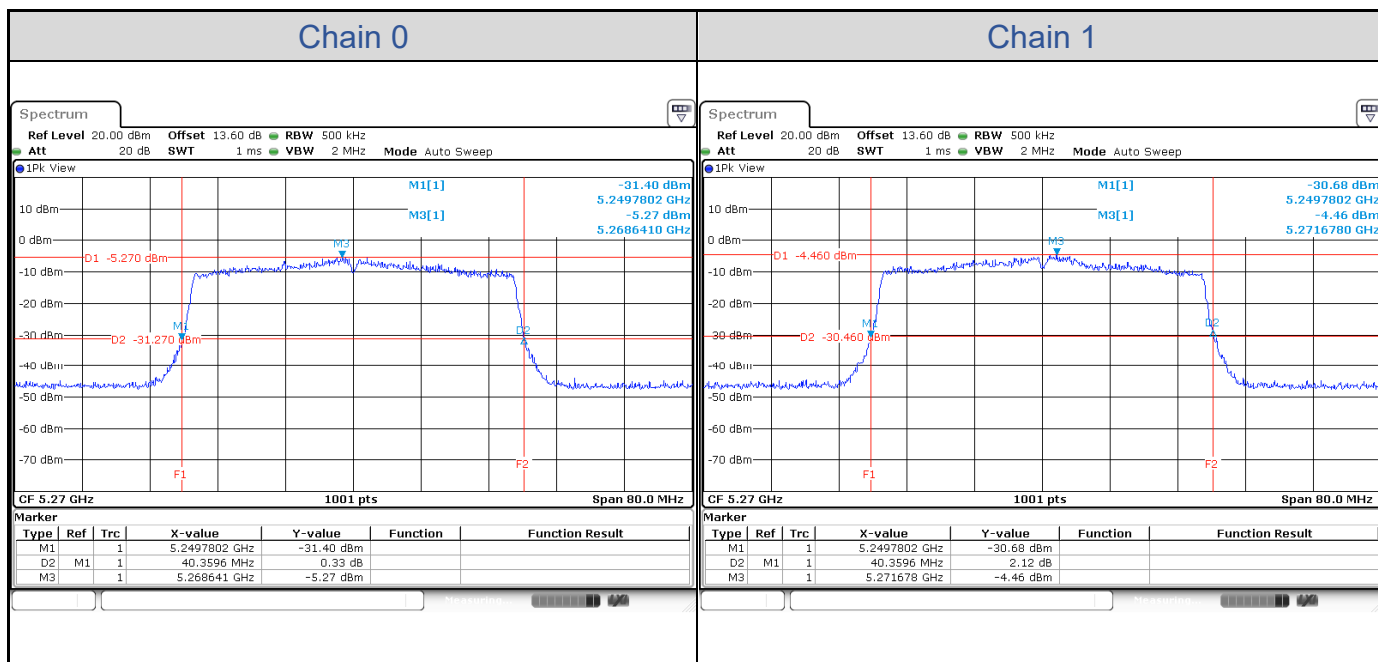
802.11ax HE20-Channel 64

802.11ax HE20-Channel 100


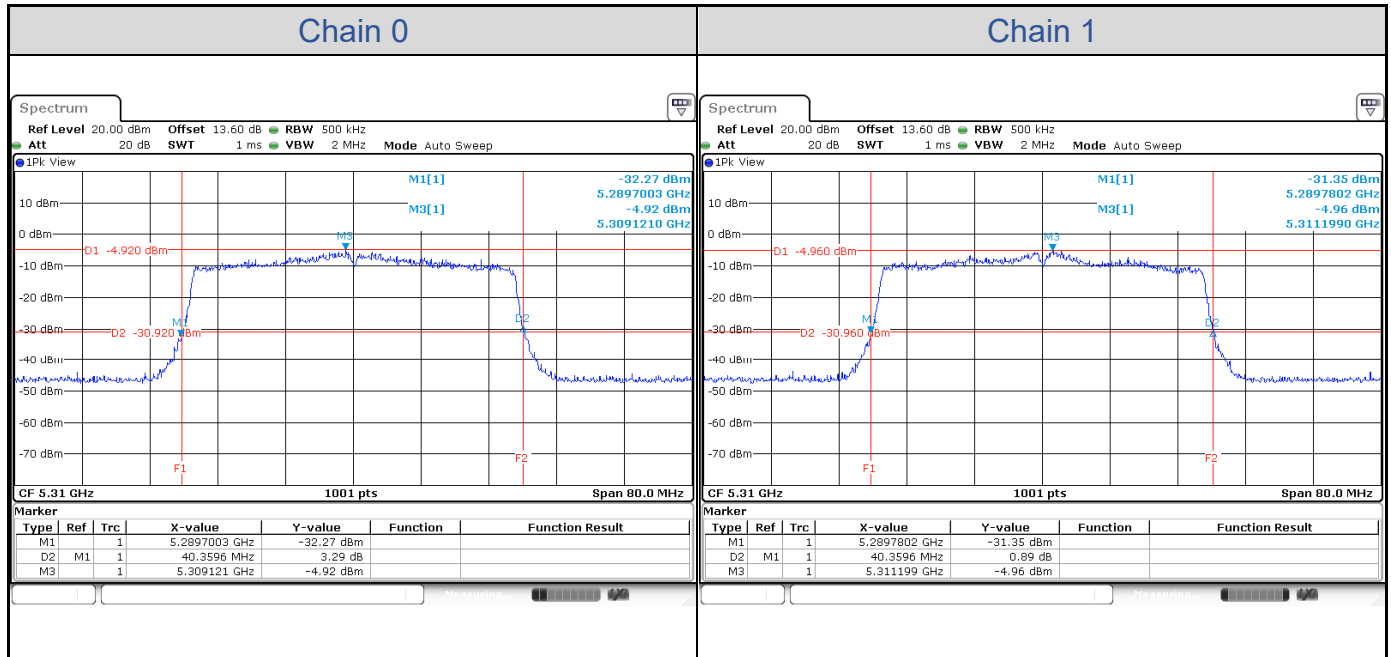
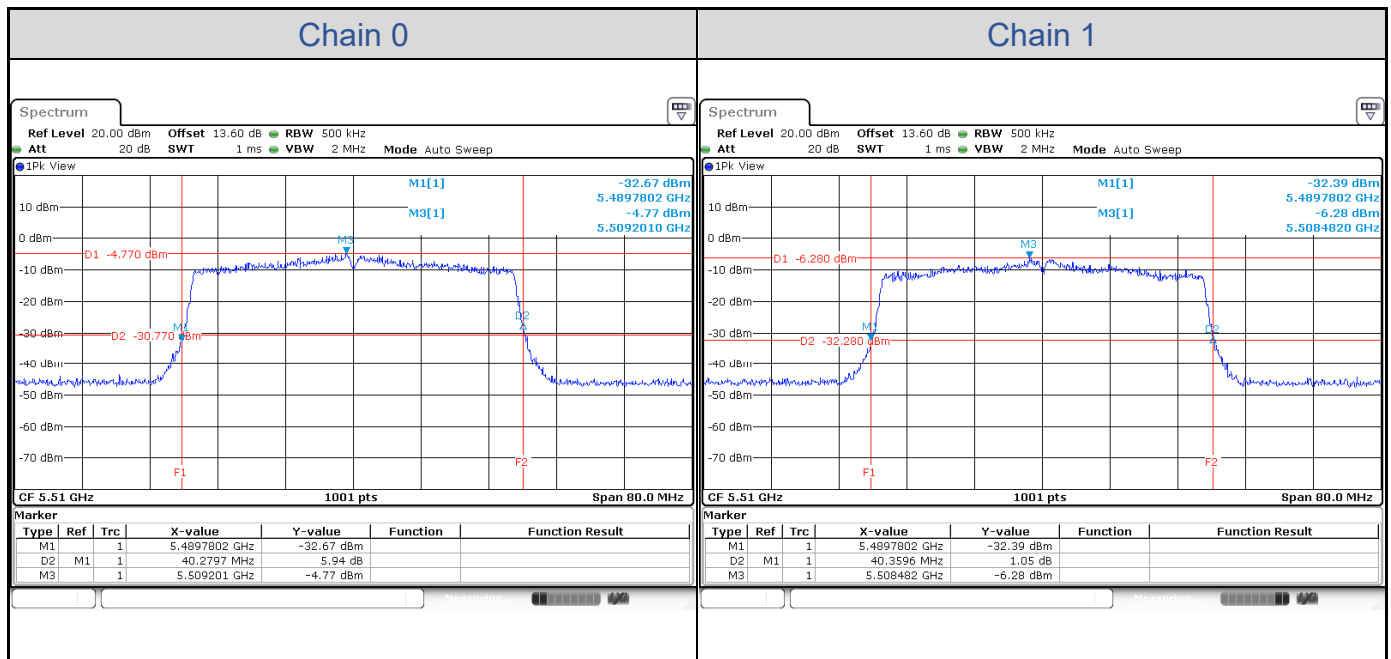
802.11ax HE20-Channel 116

802.11ax HE20-Channel 140


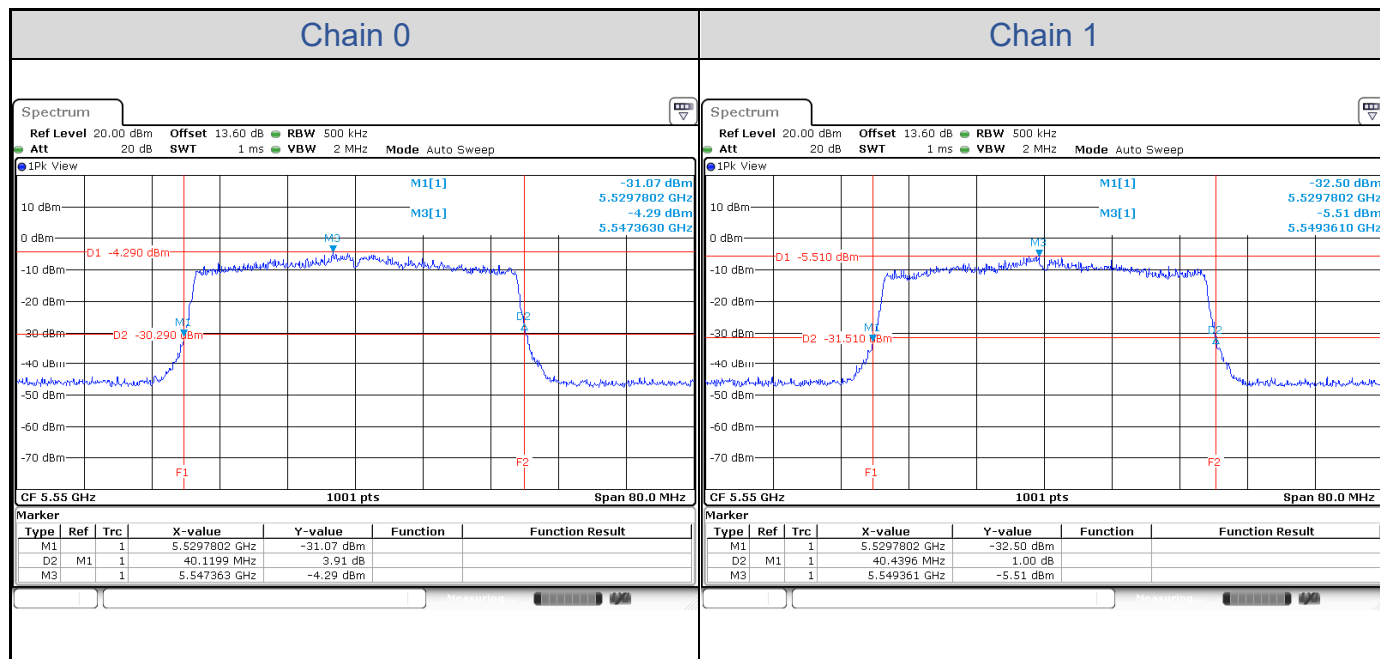
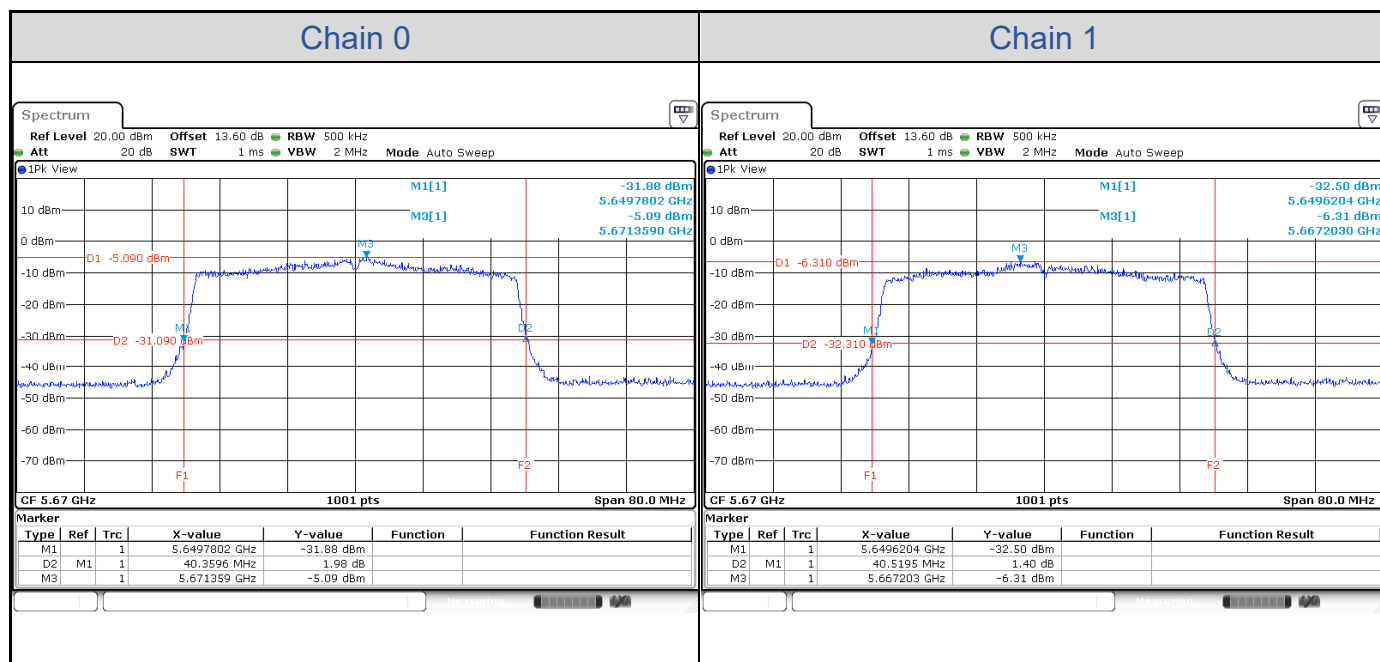
802.11ax HE40

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	38	5190	40.28	40.20
	46	5230	40.28	40.36
U-NII-2A	54	5270	40.36	40.36
	62	5310	40.36	40.36
U-NII-2C	102	5510	40.28	40.36
	110	5500	40.12	40.44
	134	5670	40.36	40.52

802.11ax HE40-Channel 38


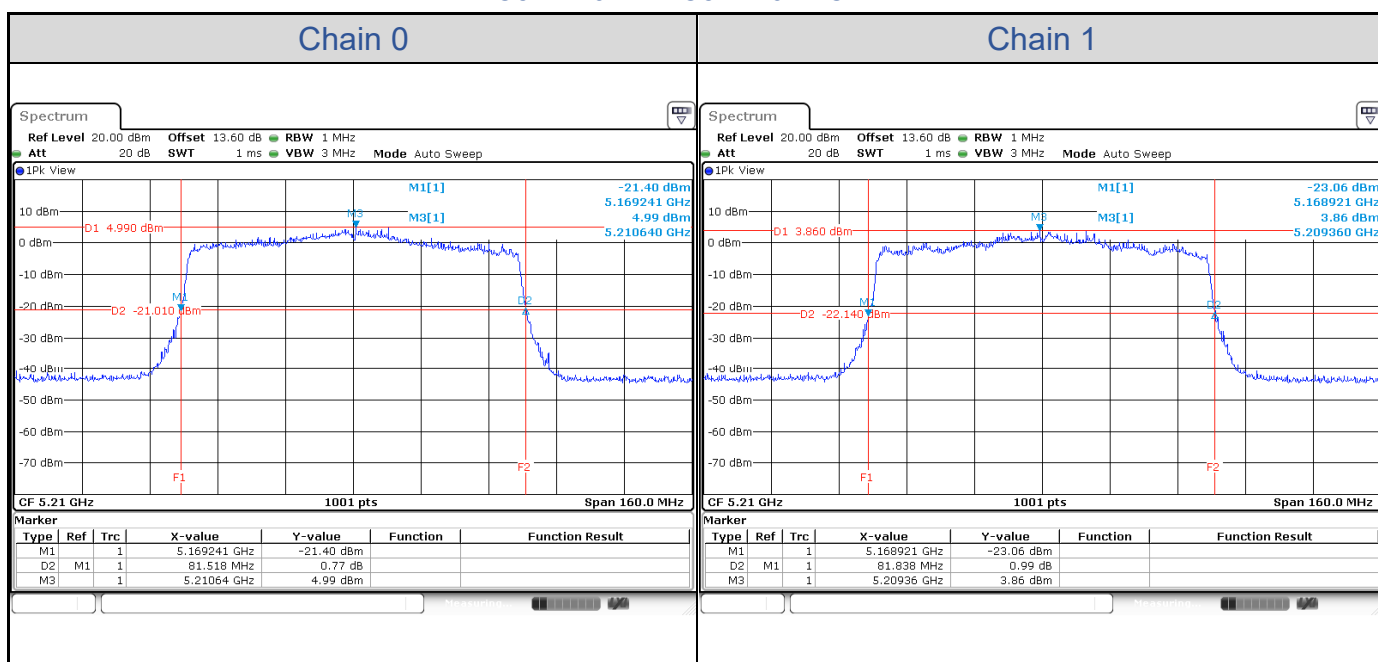
802.11ax HE40-Channel 46

802.11ax HE40-Channel 54


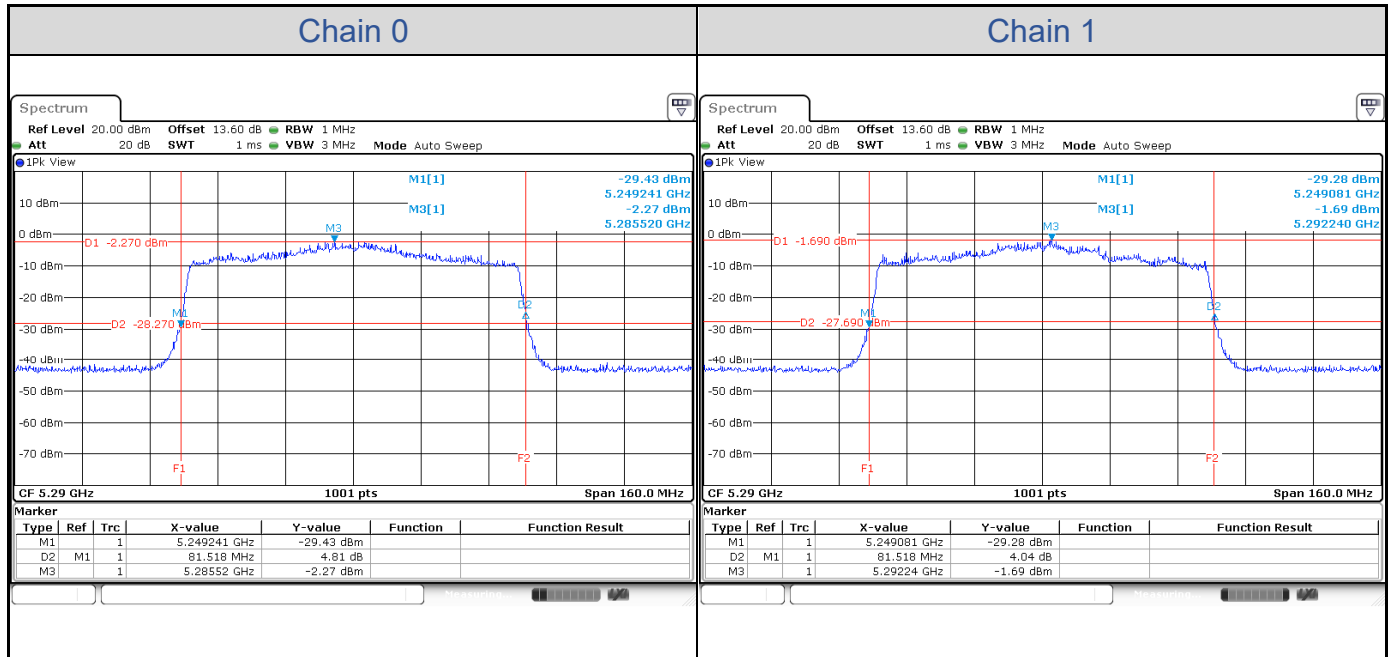
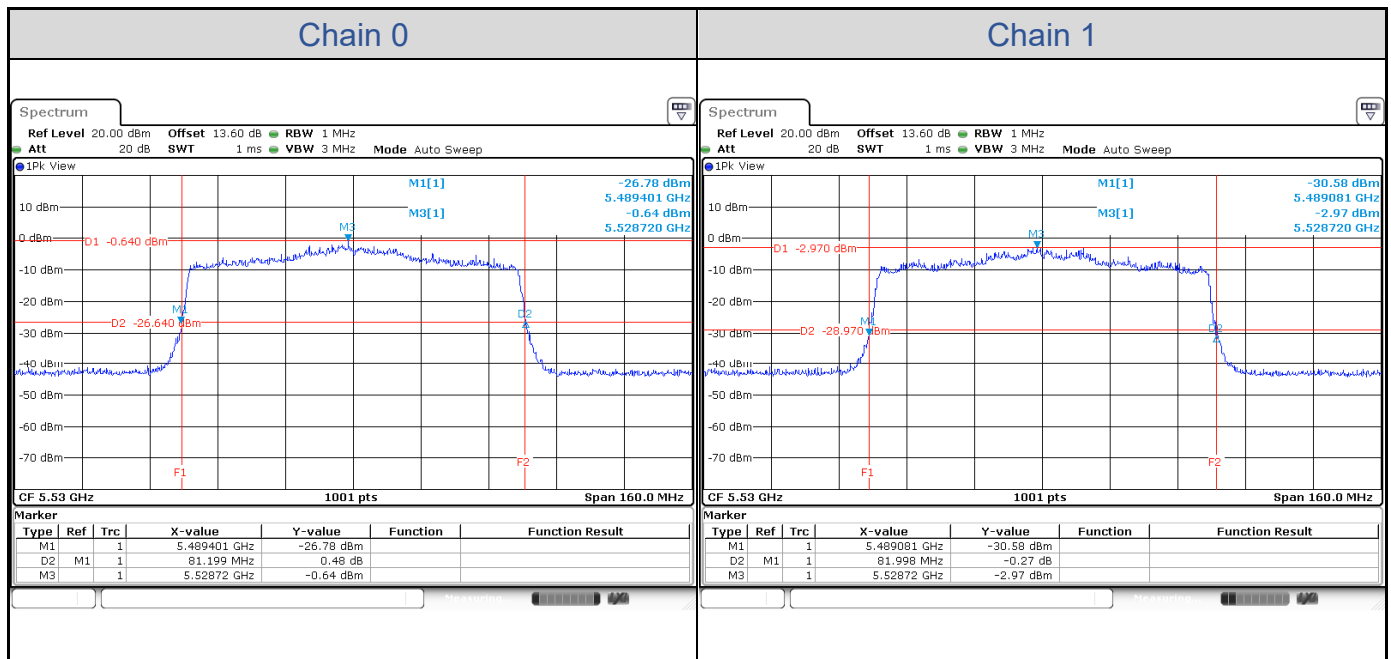
802.11ax HE40-Channel 62

802.11ax HE40-Channel 102


802.11ax HE40-Channel 110

802.11ax HE40-Channel 134


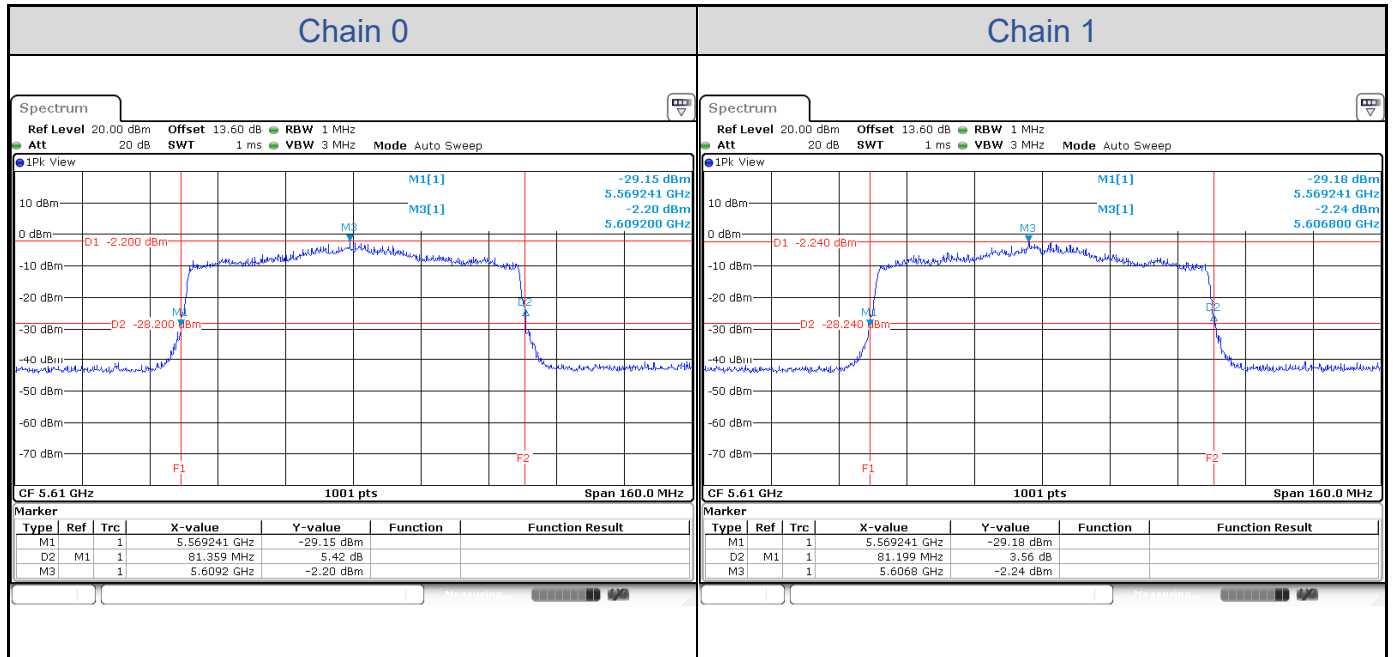
802.11ax HE80

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	42	5210	81.52	81.84
U-NII-2A	58	5290	81.52	81.52
U-NII-2C	106	5530	81.20	82.00
	122	5610	81.36	81.20

802.11ax HE80-Channel 42


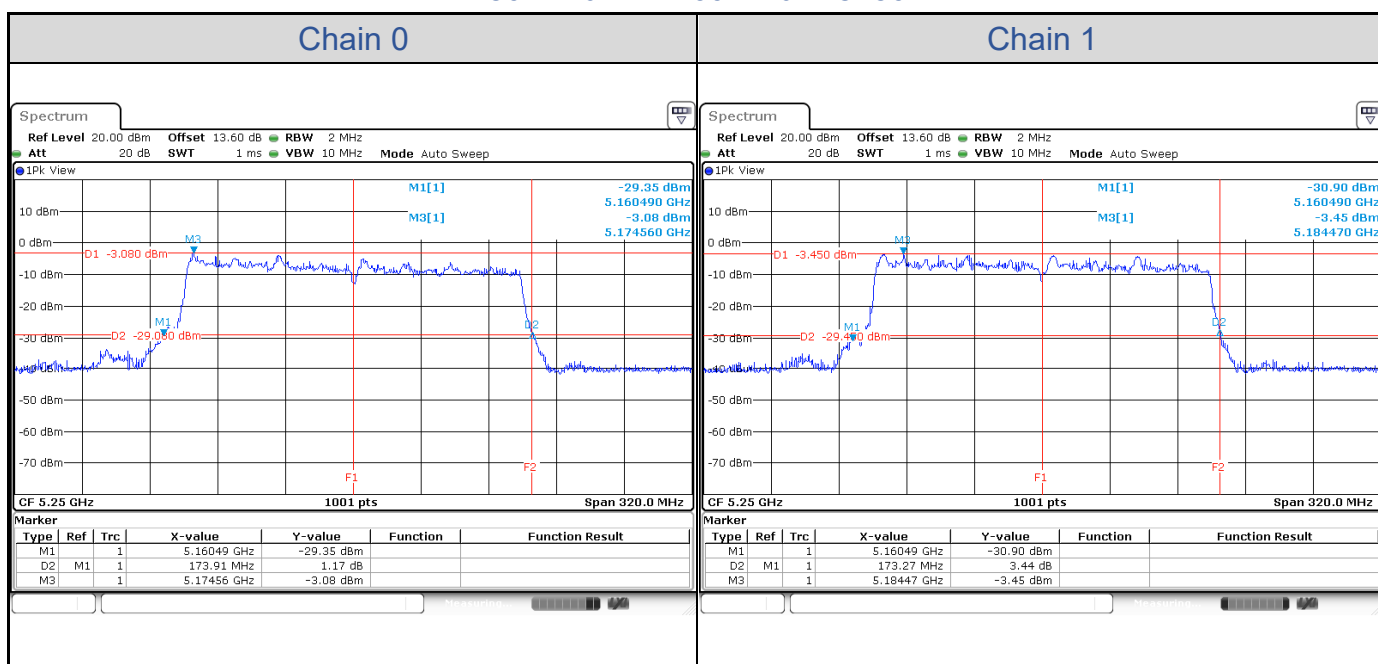
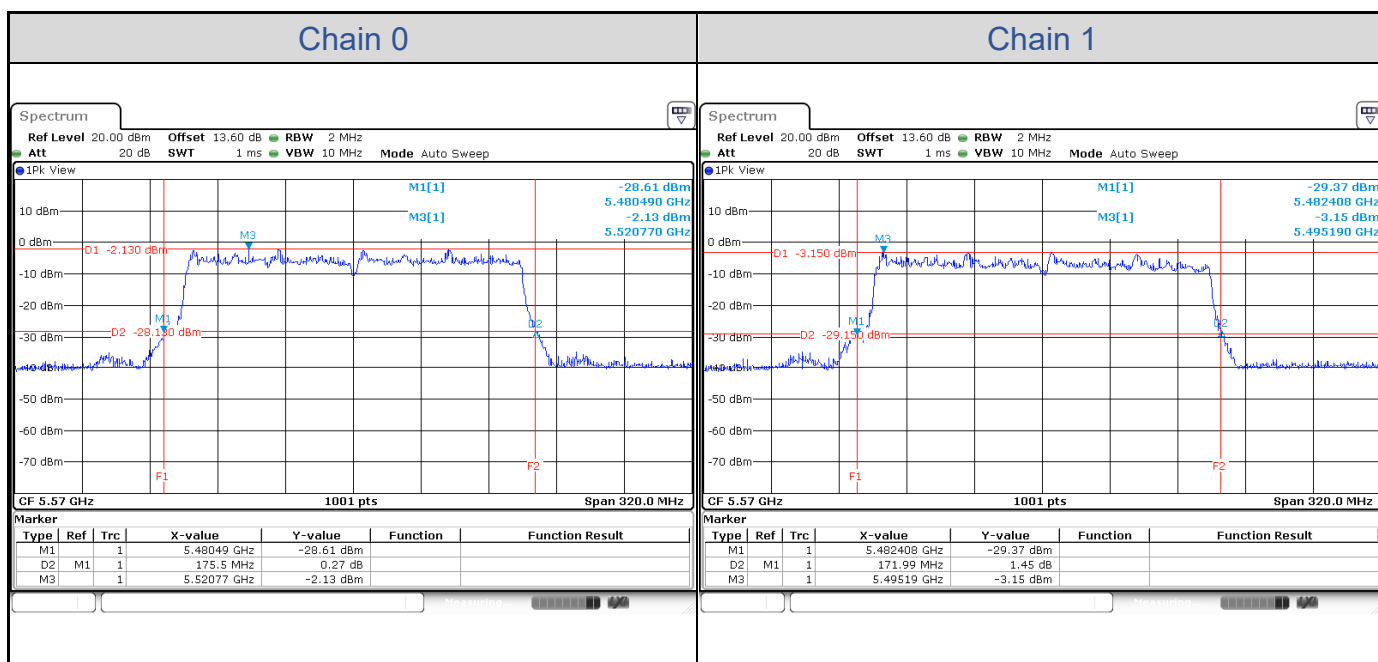
802.11ax HE80-Channel 58

802.11ax HE80-Channel 106


802.11ax HE80-Channel 122



802.11ax HE160

Band	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	50	5250	89.51	89.51
U-NII-2A	50	5250	84.40	83.76
U-NII-2C	114	5570	175.50	171.99

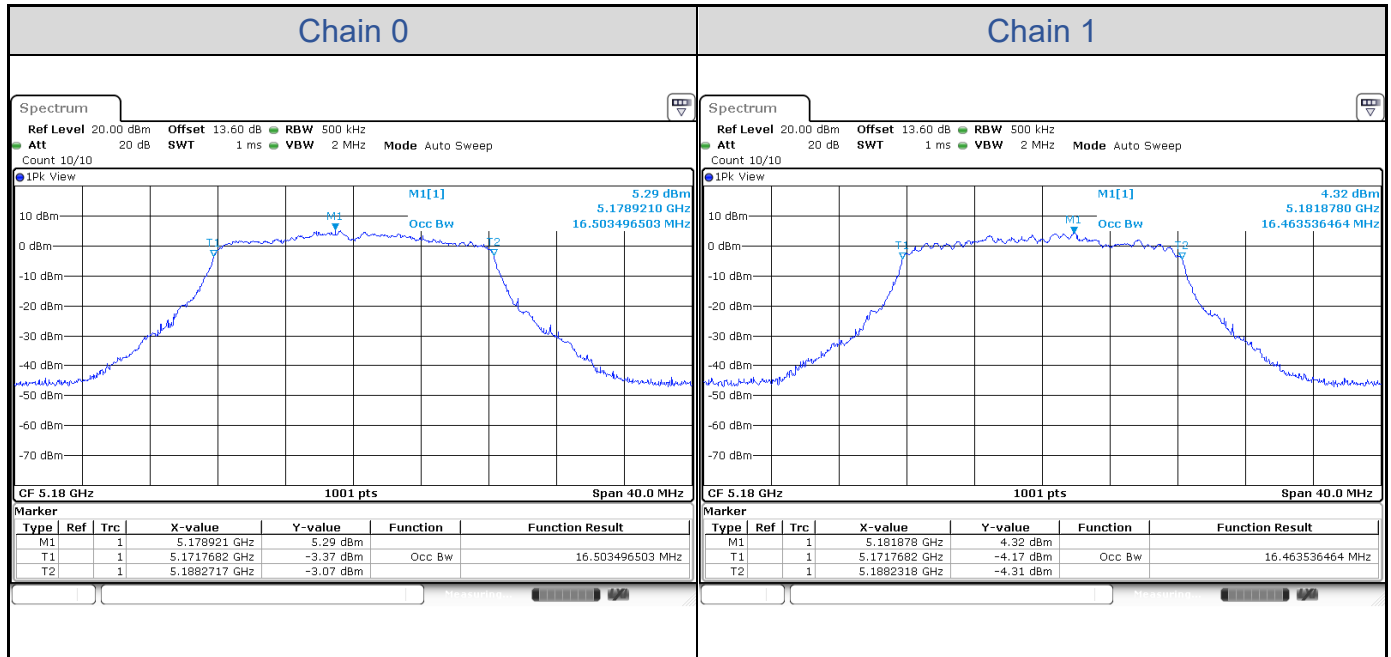
802.11ax HE160-Channel 50

802.11ax HE160-Channel 114


Test Result of 99% Occupied Bandwidth

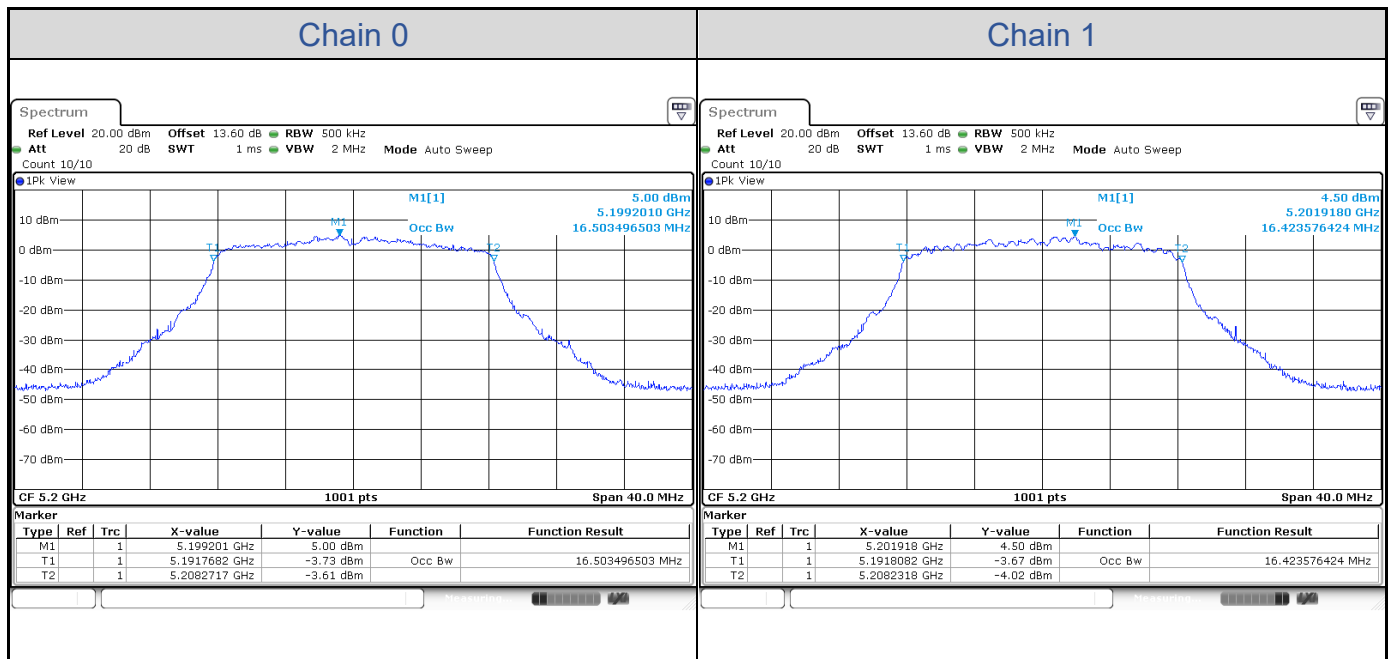
802.11a

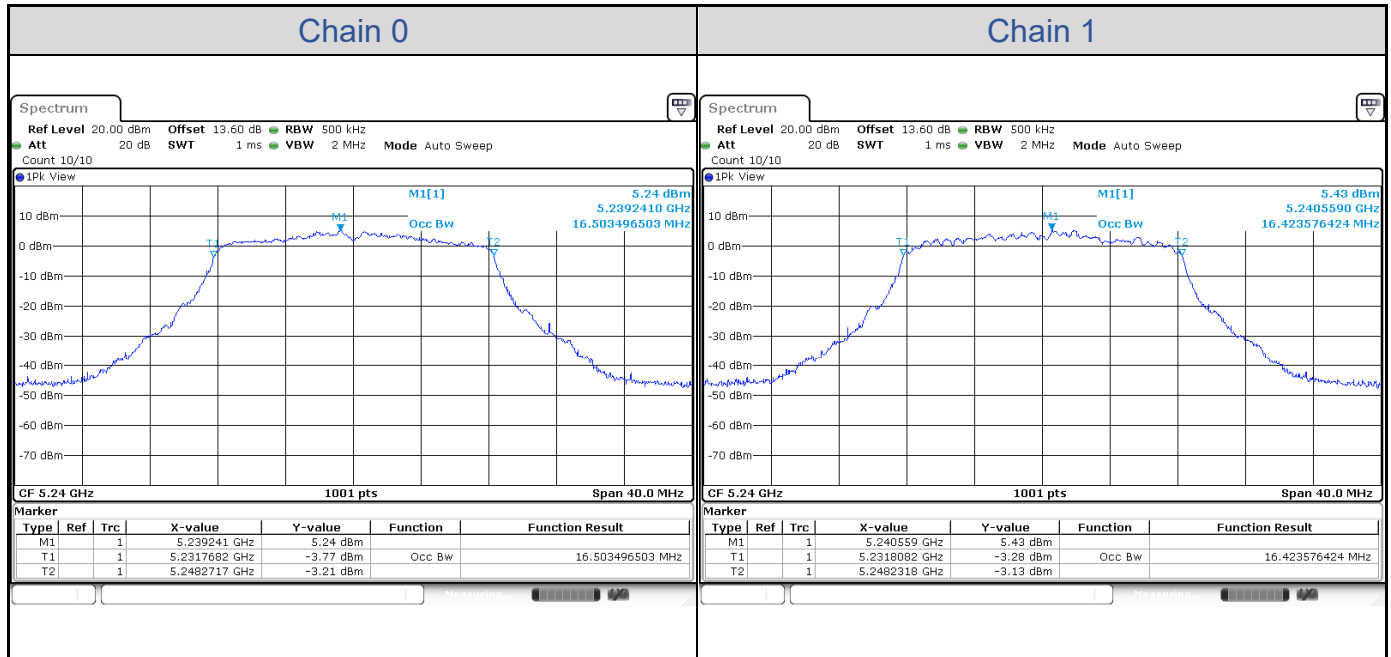
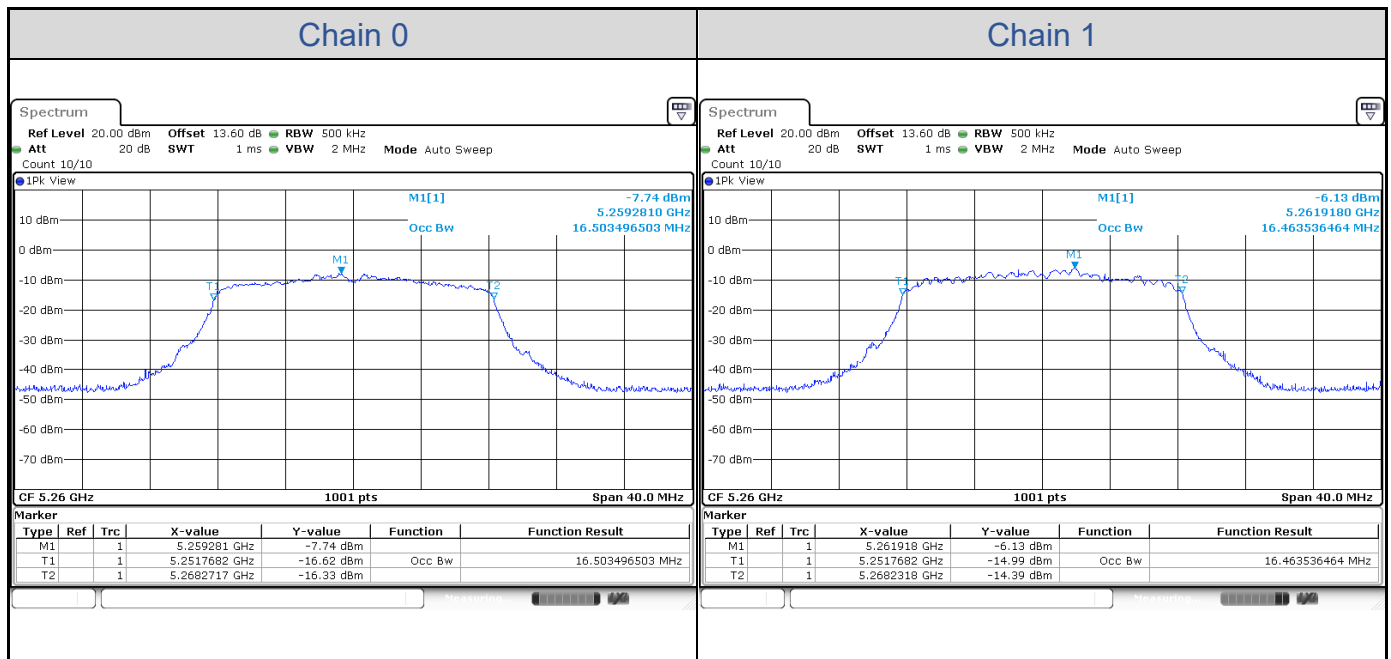
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	36	5180	16.50	16.46
	40	5200	16.50	16.42
	48	5240	16.50	16.42
U-NII-2A	52	5260	16.50	16.46
	60	5300	16.50	16.42
	64	5320	16.50	16.42
U-NII-2C	100	5500	16.50	16.42
	116	5580	16.50	16.46
	140	5700	16.50	16.50
U-NII-3	149	5745	16.50	16.46
	157	5785	16.50	16.50
	165	5825	16.50	16.50

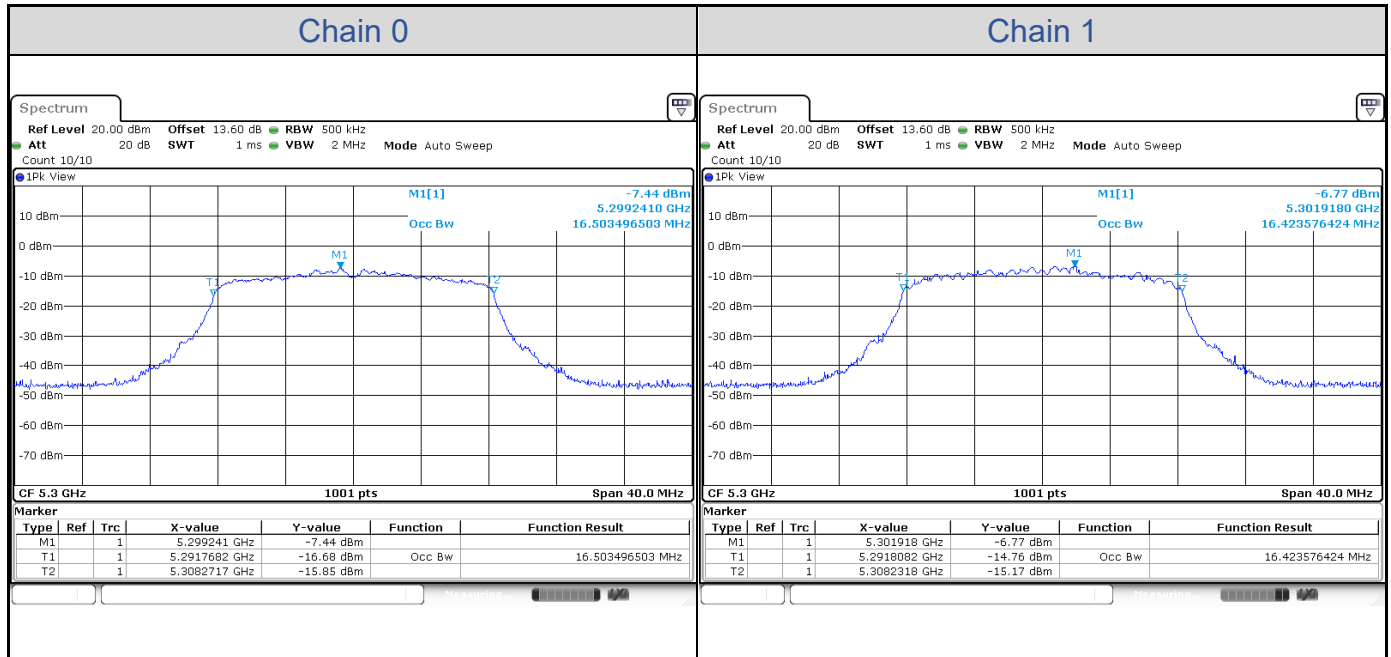
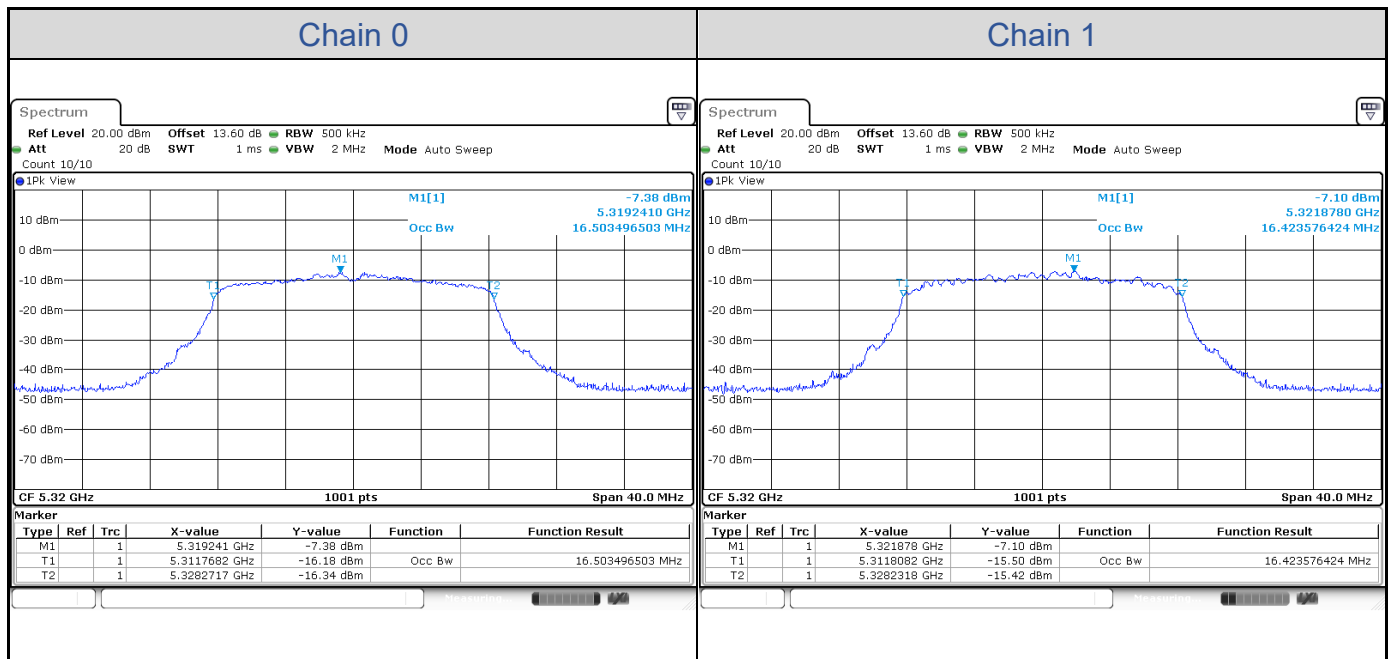
802.11a-Channel 36

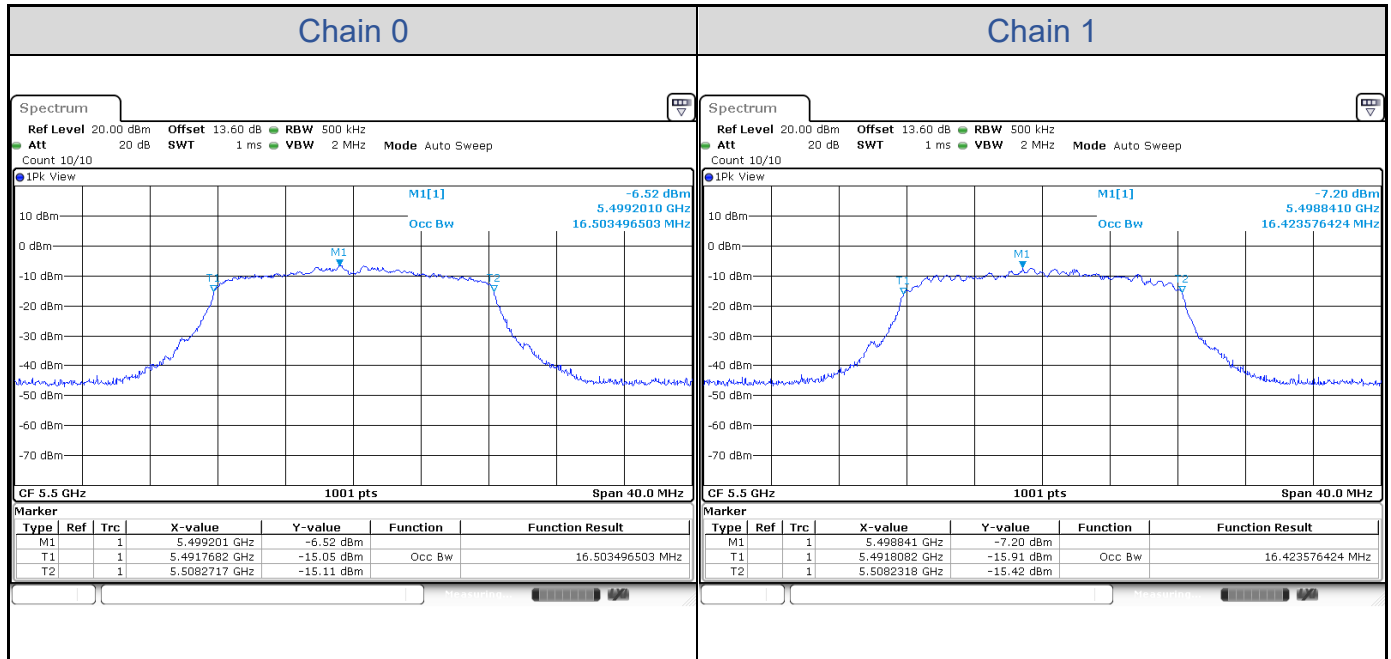
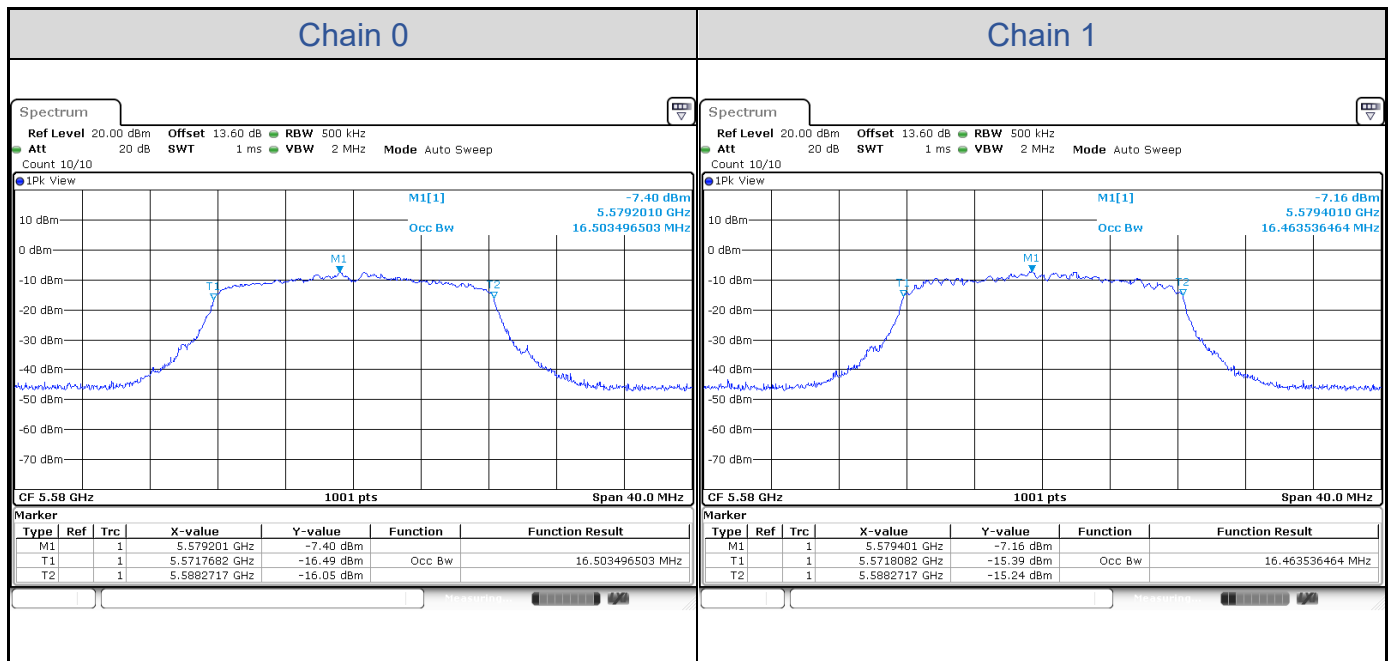


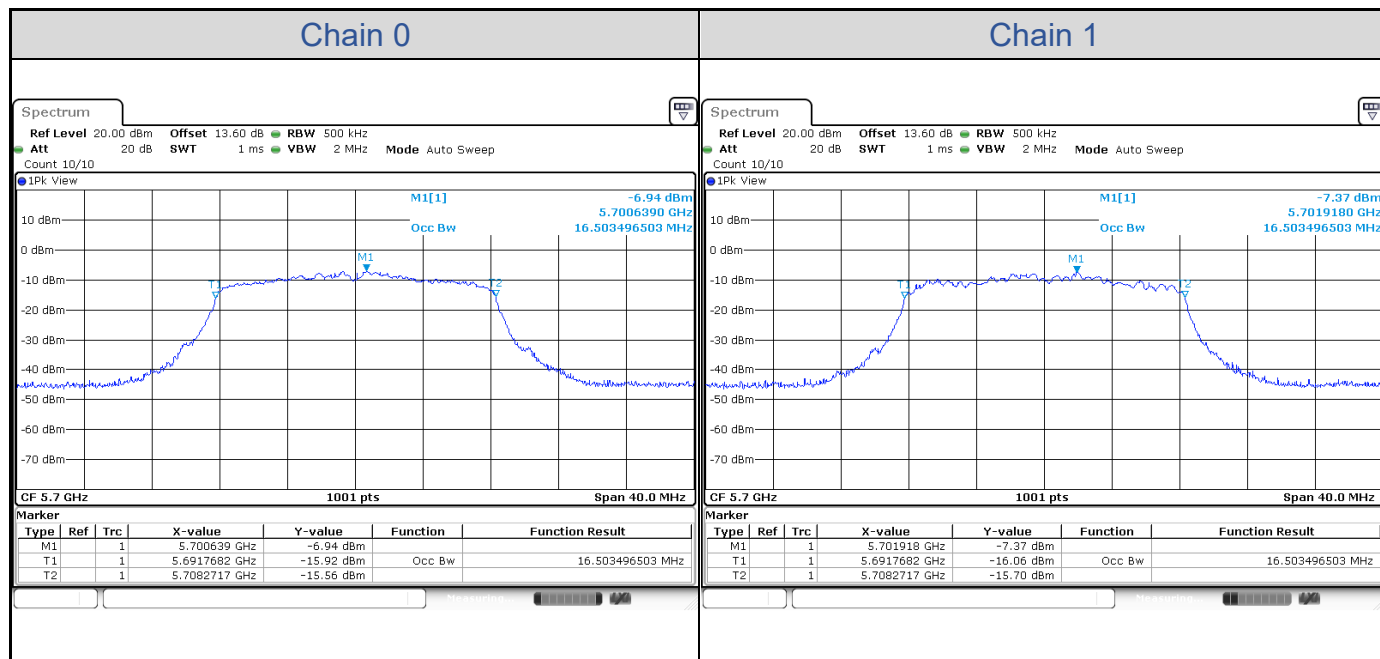
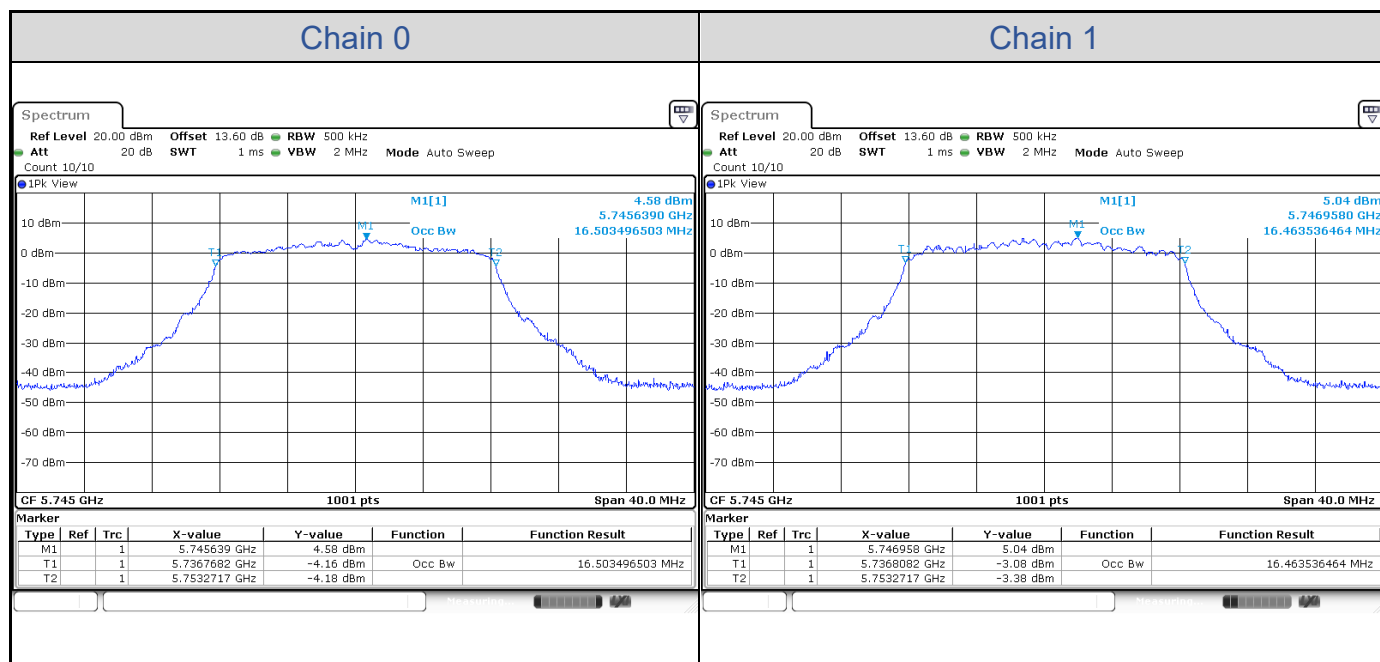
802.11a-Channel 40



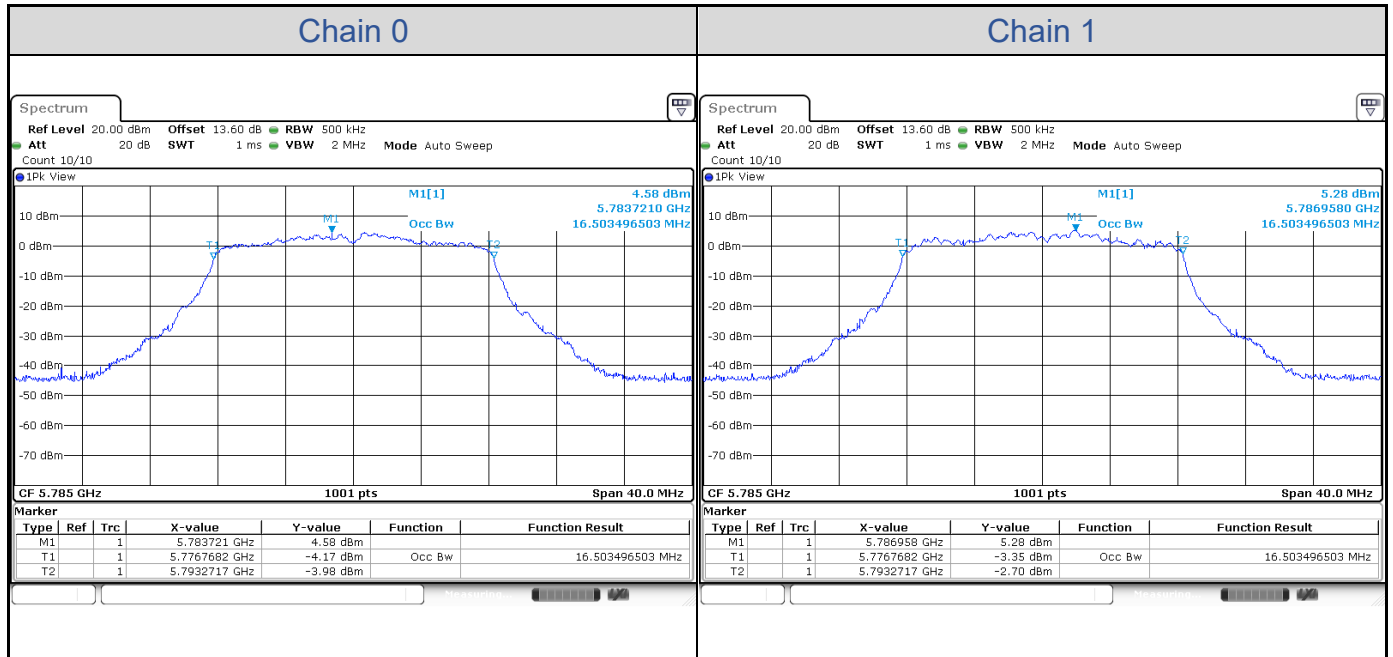
802.11a-Channel 48

802.11a-Channel 52


802.11a-Channel 60

802.11a-Channel 64


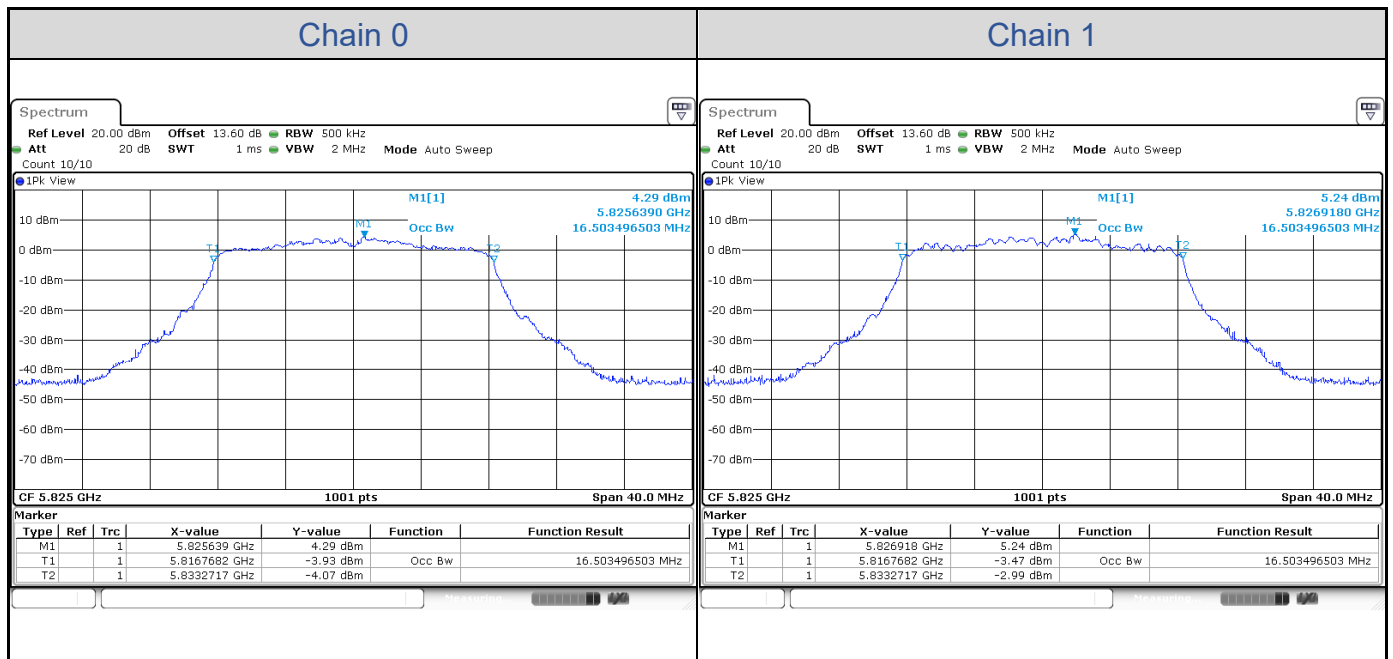
802.11a-Channel 100

802.11a-Channel 116


802.11a-Channel 140

802.11a-Channel 149


802.11a-Channel 157

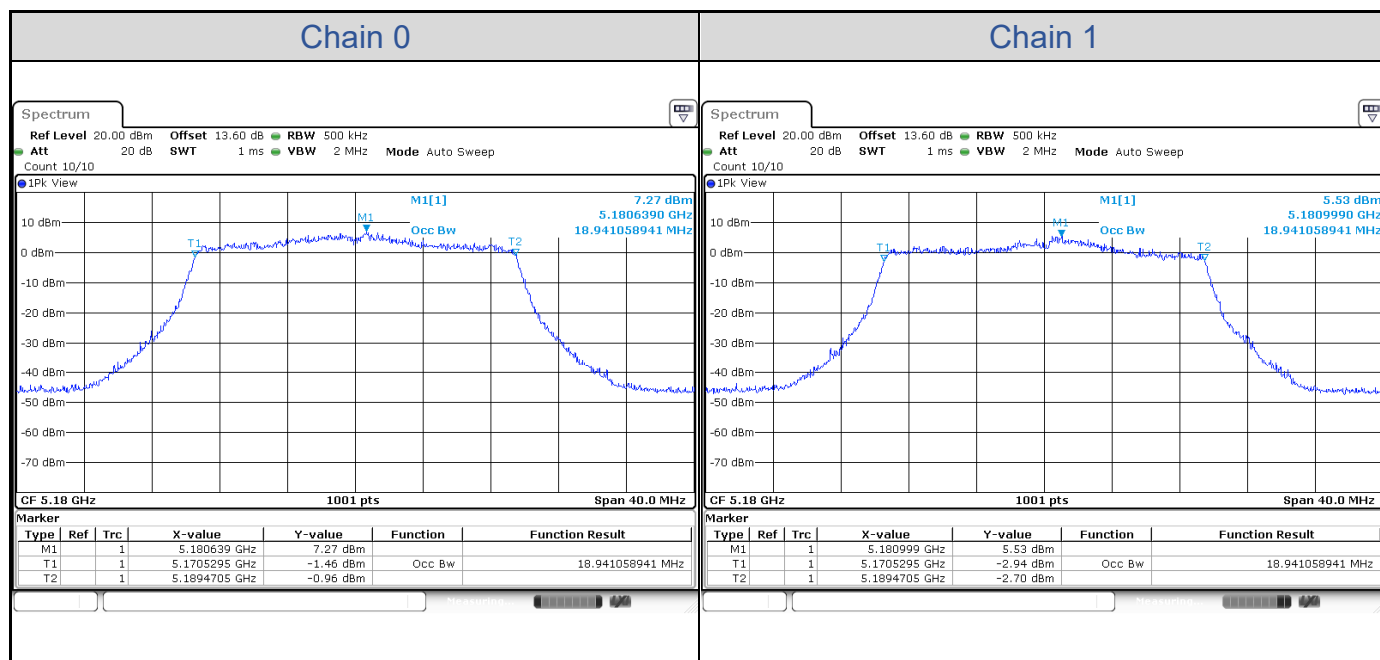


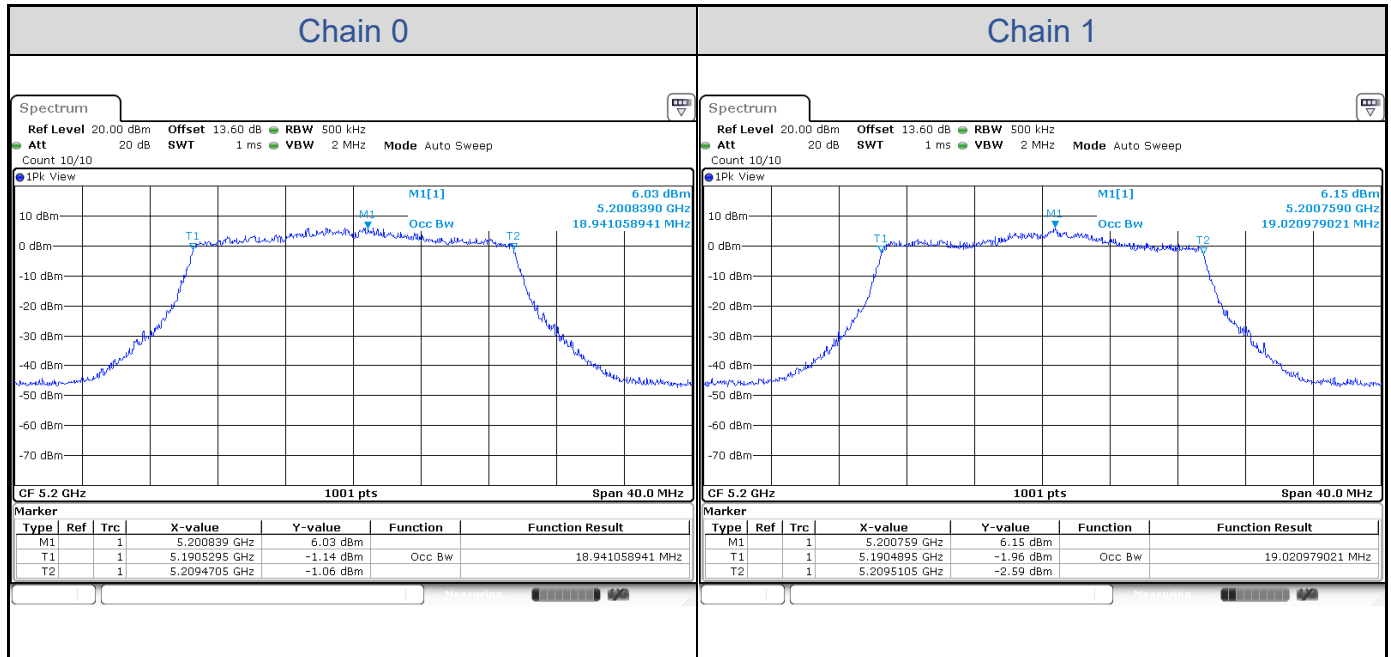
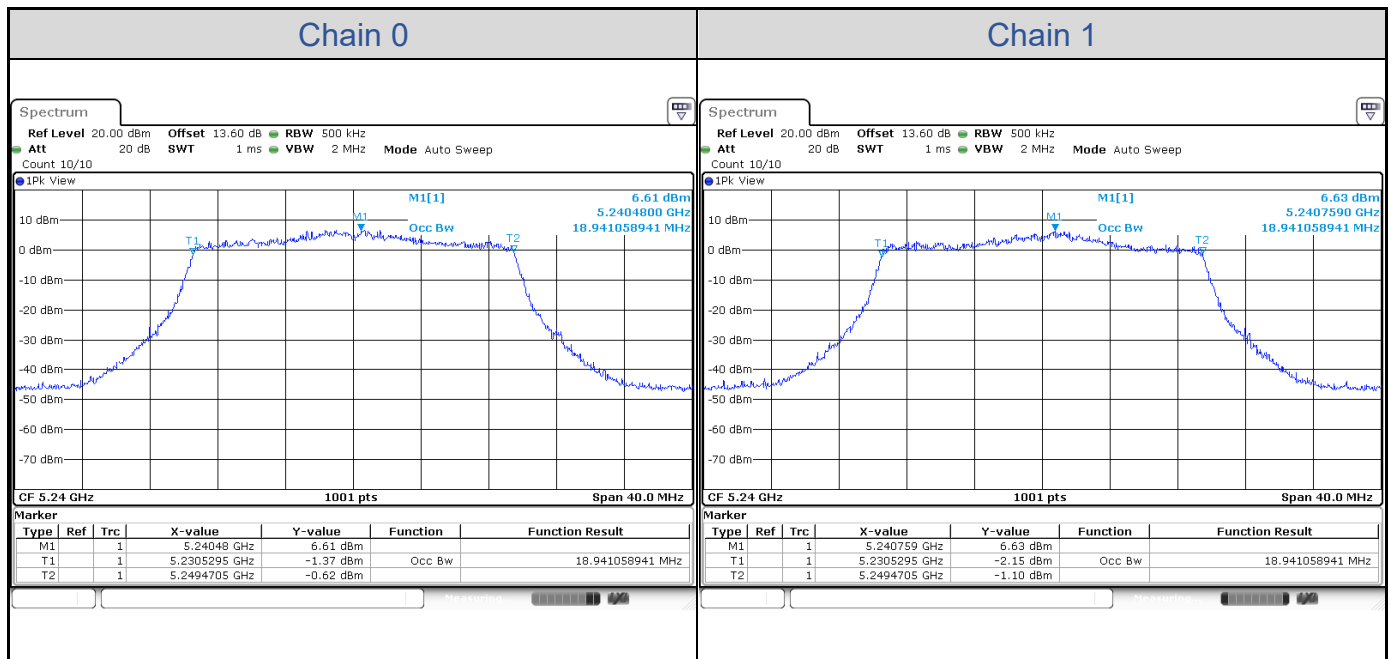
802.11a-Channel 165

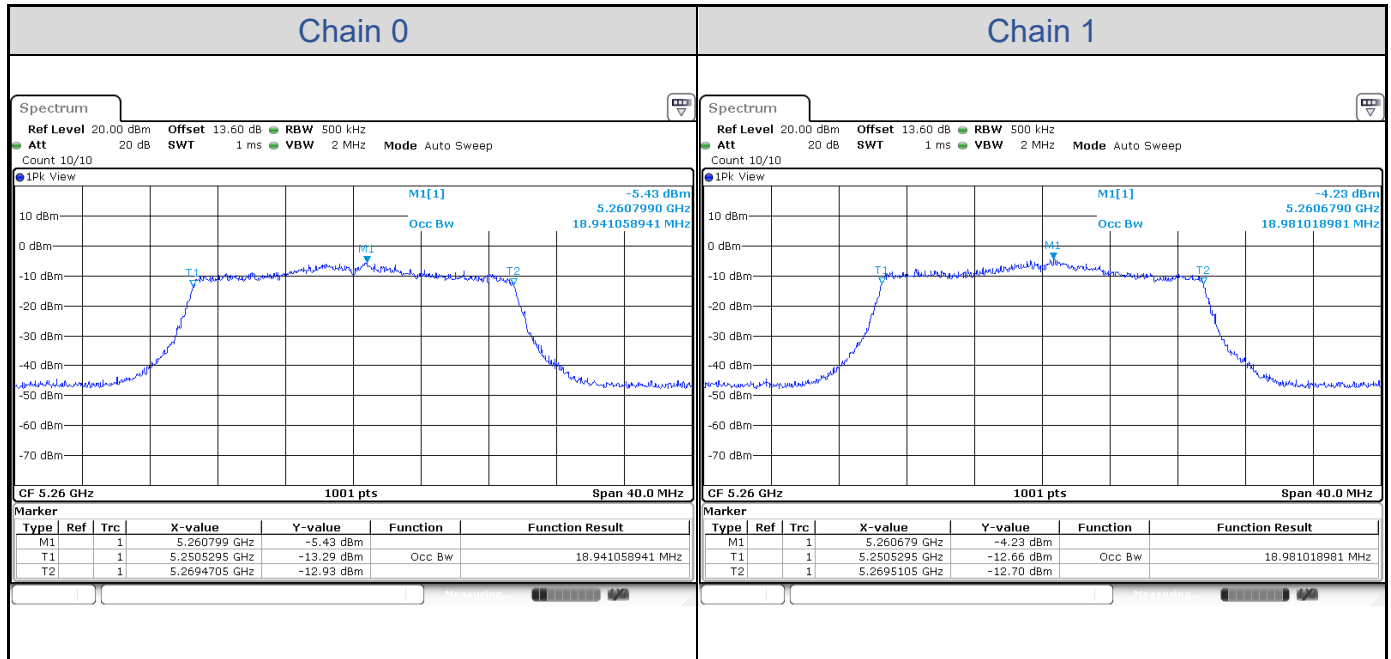
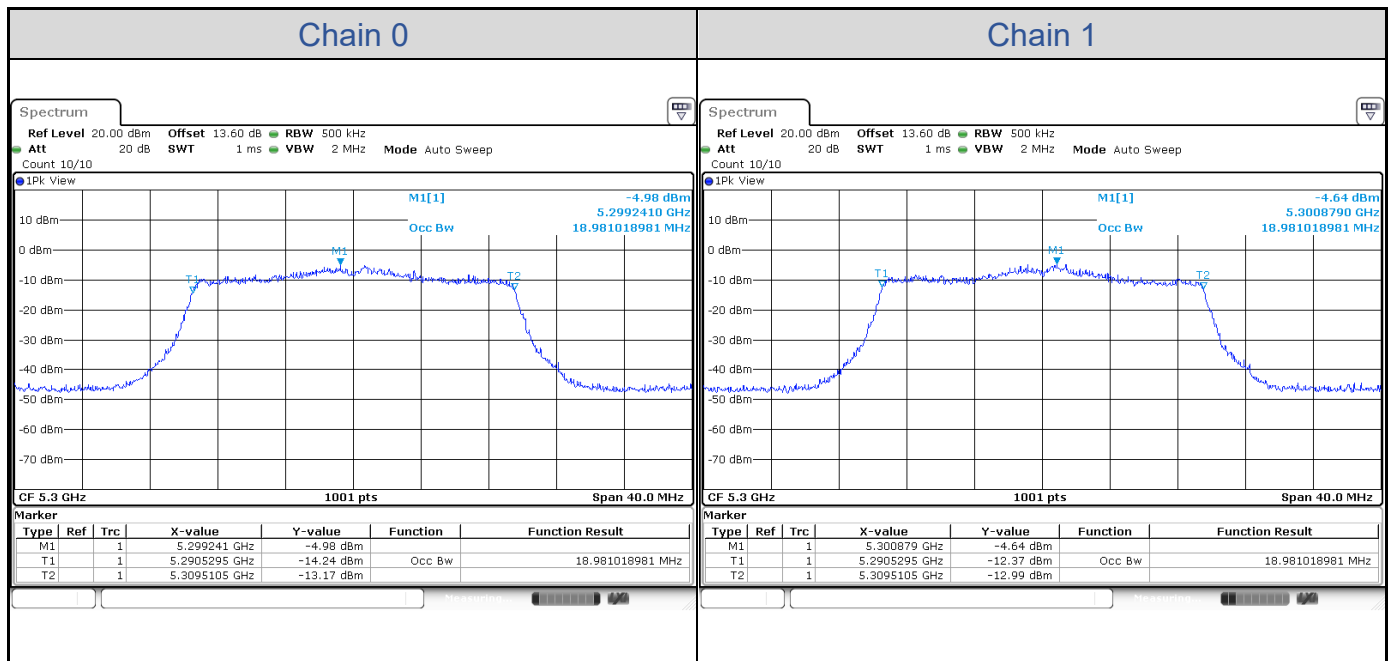


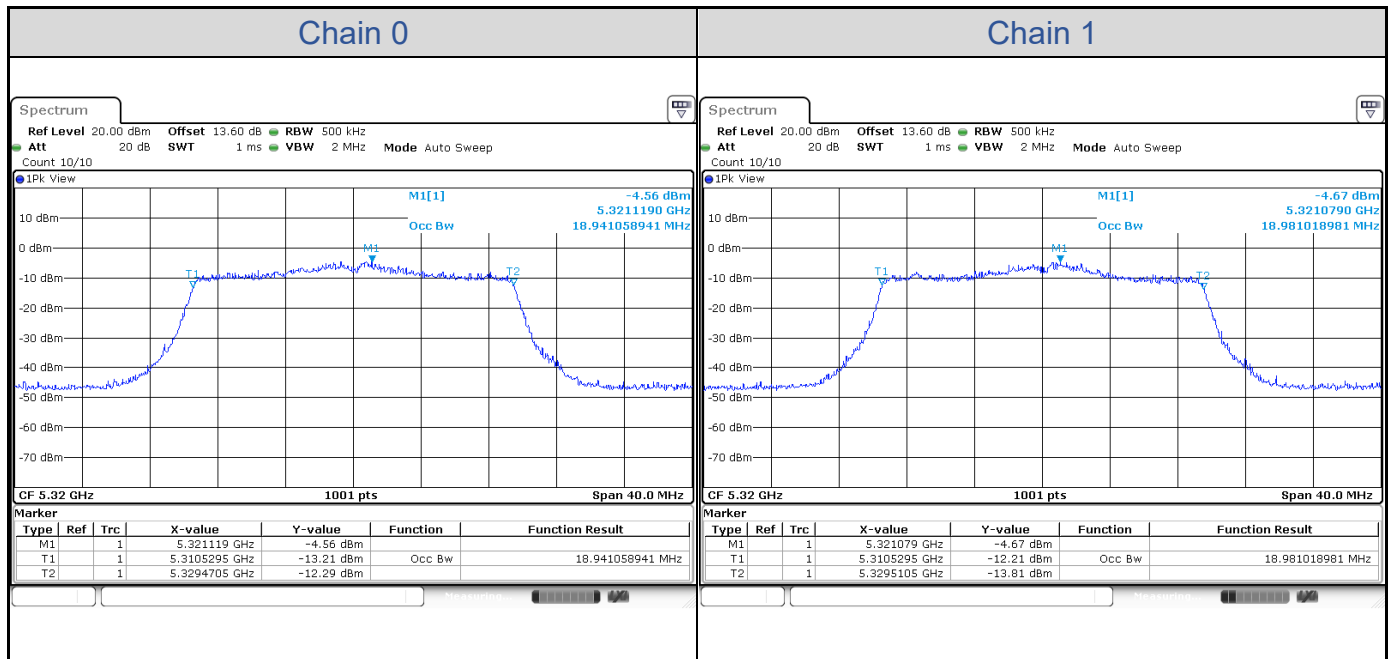
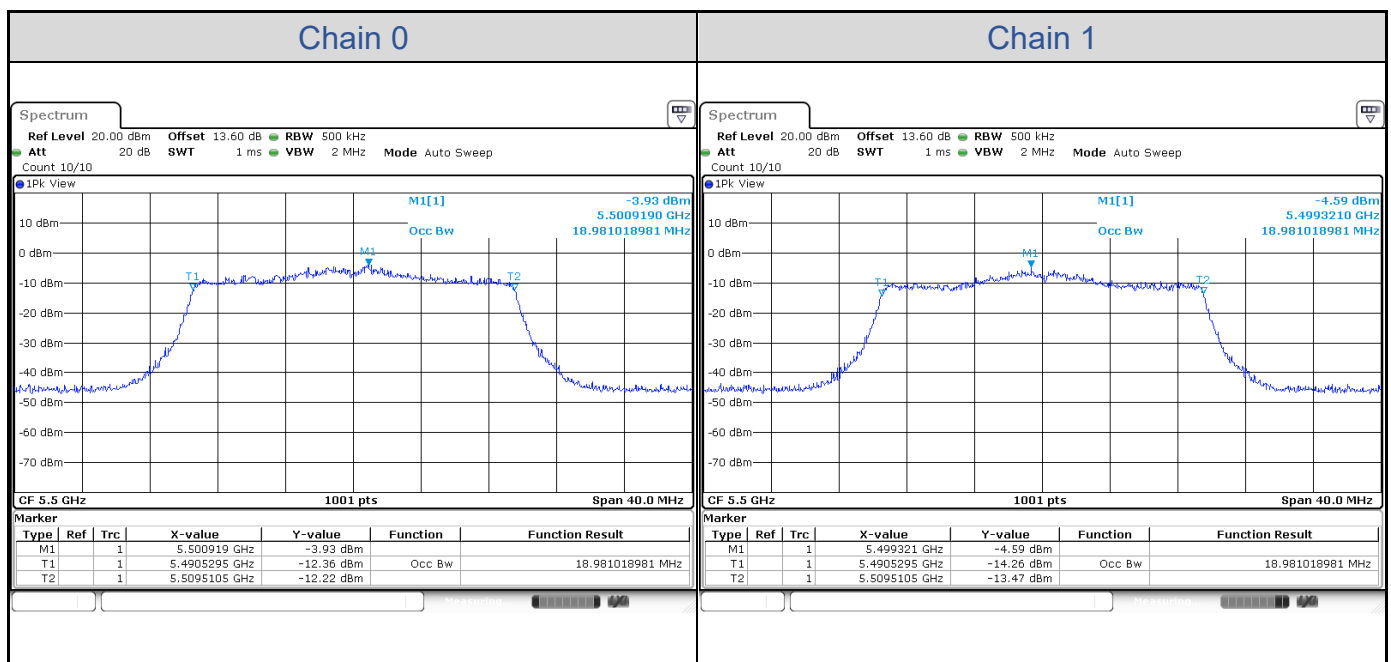
802.11ax HE20

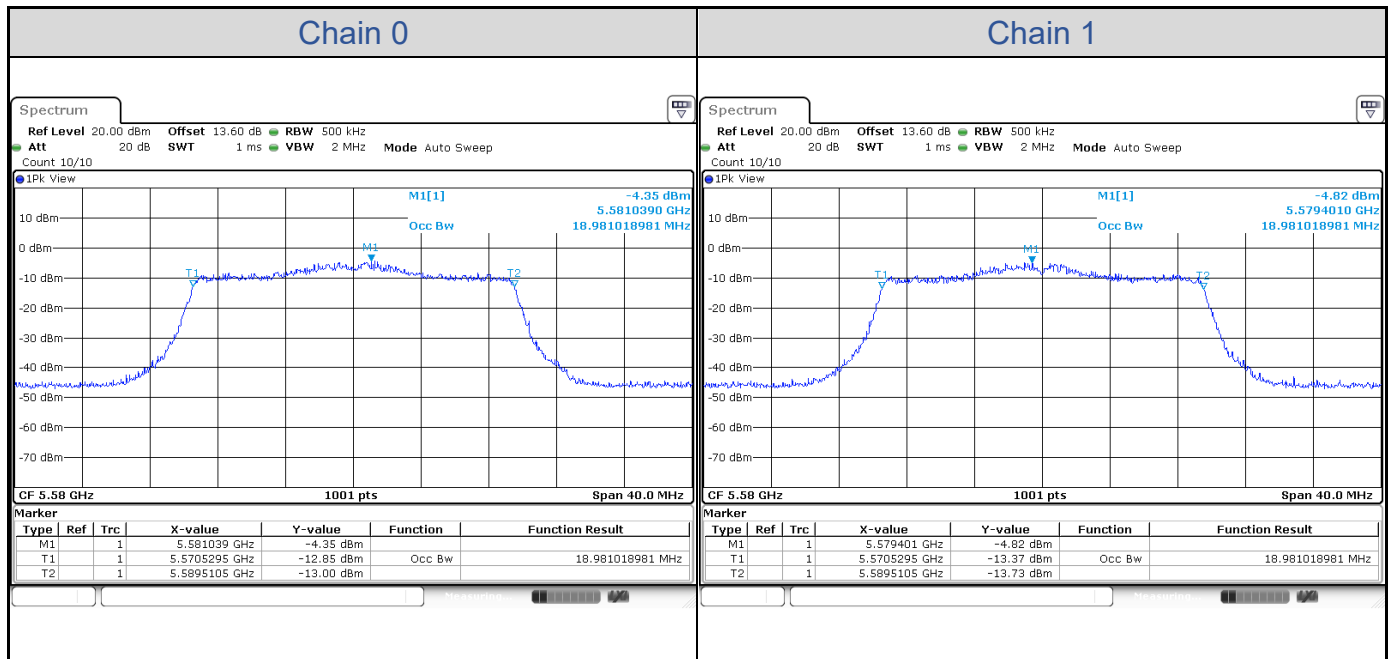
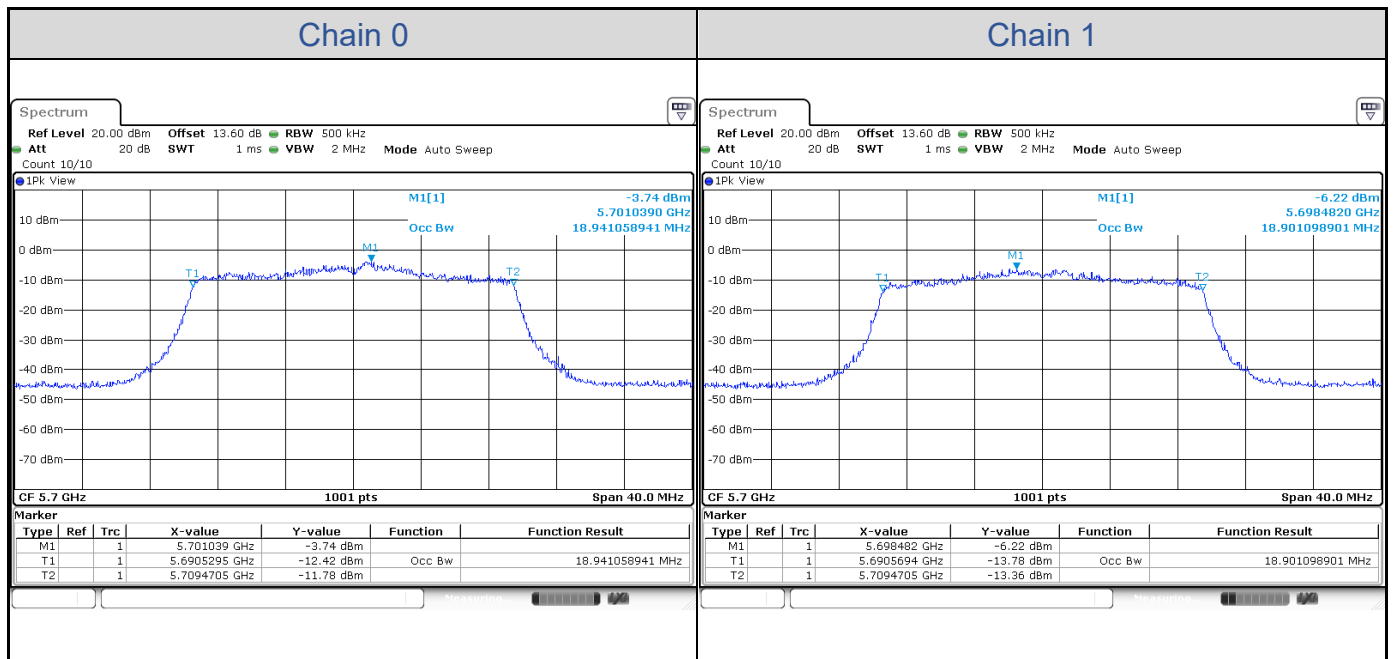
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	36	5180	18.94	18.94
	40	5200	18.94	19.02
	48	5240	18.94	18.94
U-NII-2A	52	5260	18.94	18.98
	60	5300	18.98	18.98
	64	5320	18.94	18.98
U-NII-2C	100	5500	18.98	18.98
	116	5580	18.98	18.98
	140	5700	18.94	18.90
U-NII-3	149	5745	18.98	18.90
	157	5785	18.94	18.90
	165	5825	18.94	18.86

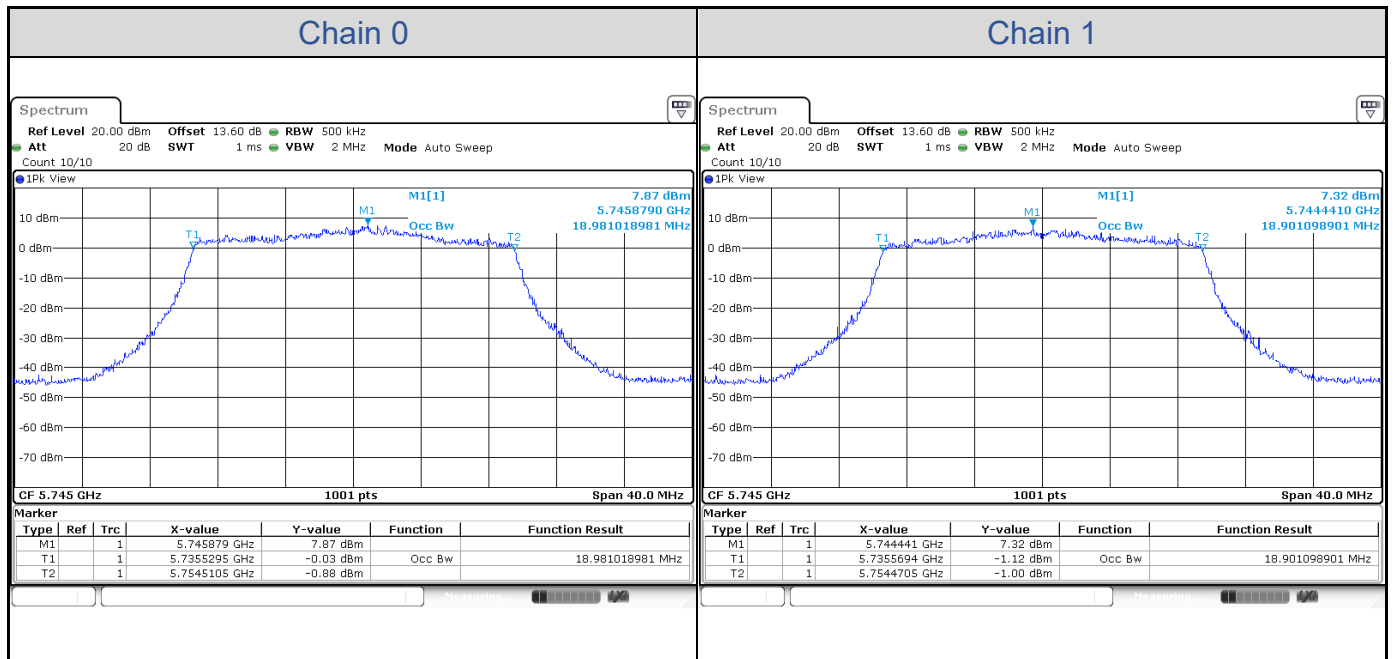
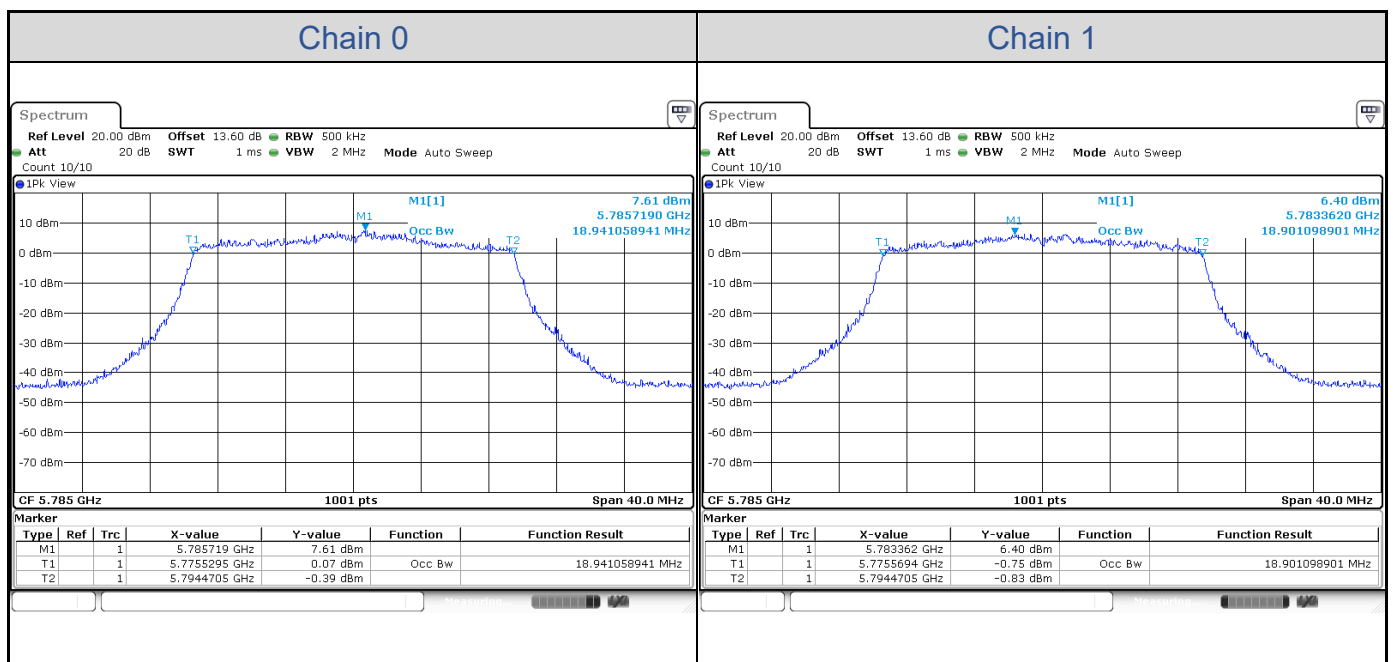
802.11ax HE20-Channel 36


802.11ax HE20-Channel 40

802.11ax HE20-Channel 48


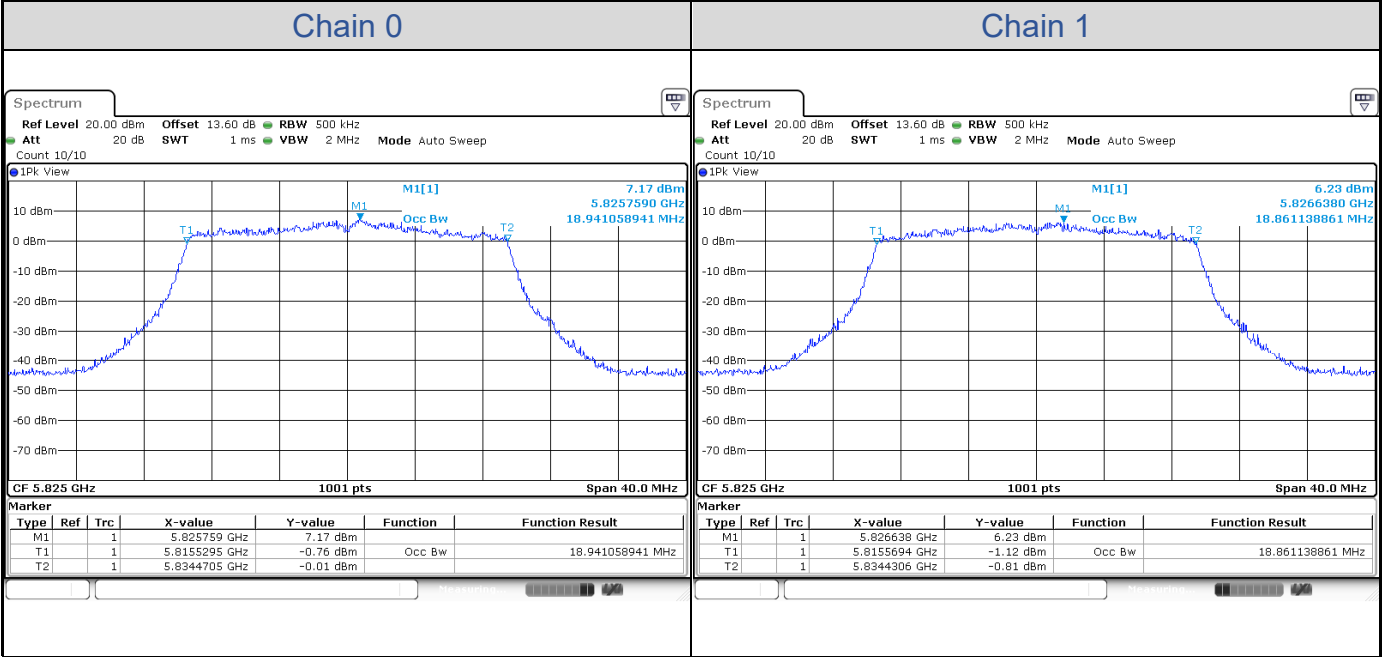
802.11ax HE20-Channel 52

802.11ax HE20-Channel 60


802.11ax HE20-Channel 64

802.11ax HE20-Channel 100


802.11ax HE20-Channel 116

802.11ax HE20-Channel 140


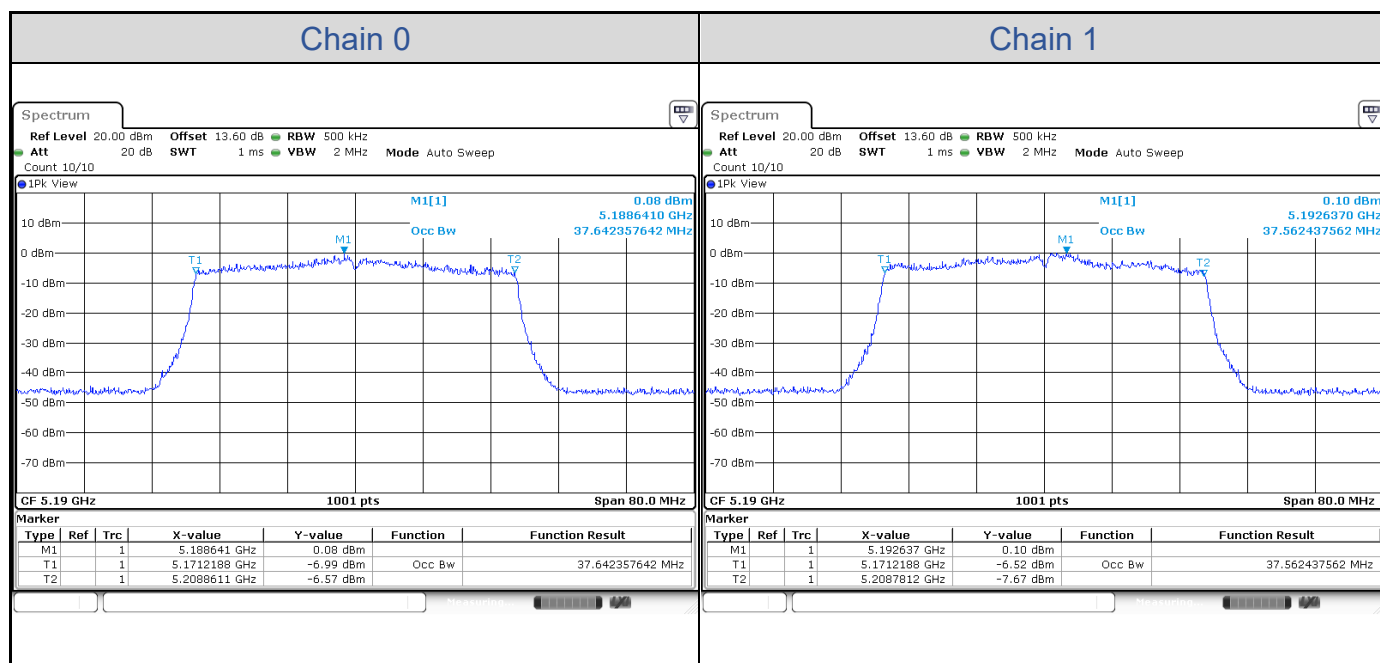
802.11ax HE20-Channel 149

802.11ax HE20-Channel 157


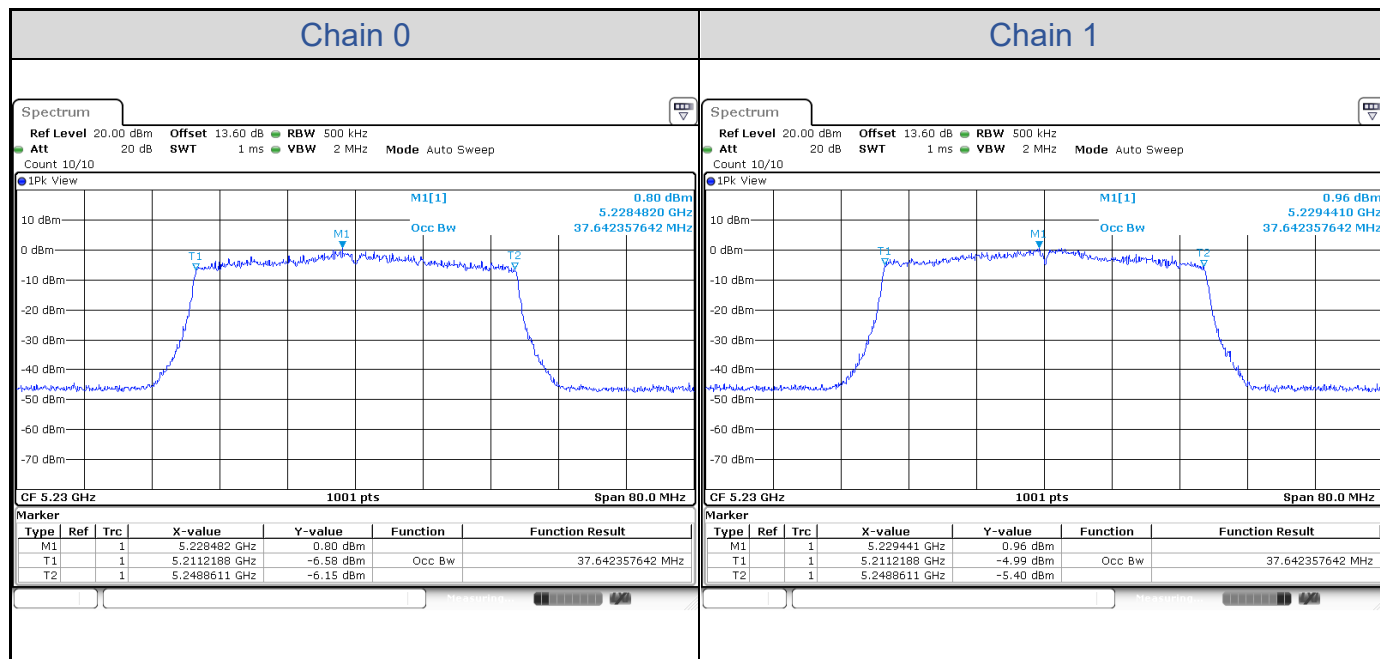
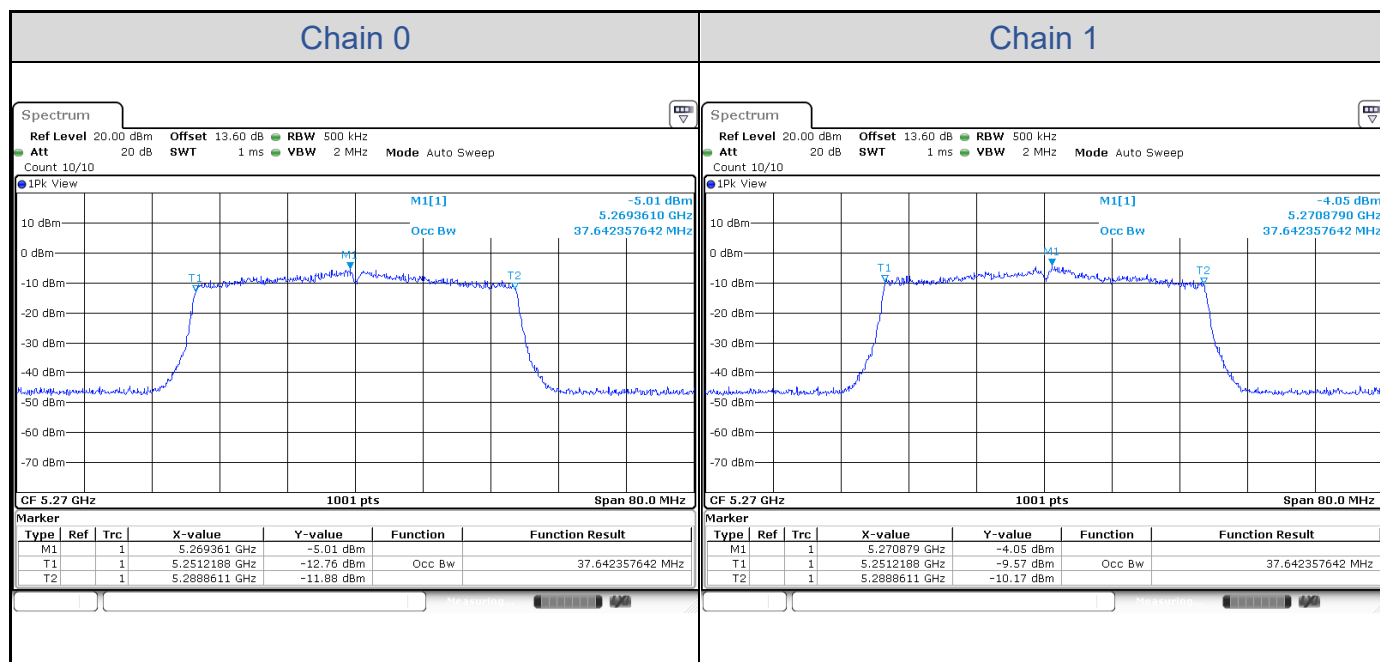
802.11ax HE20-Channel 165

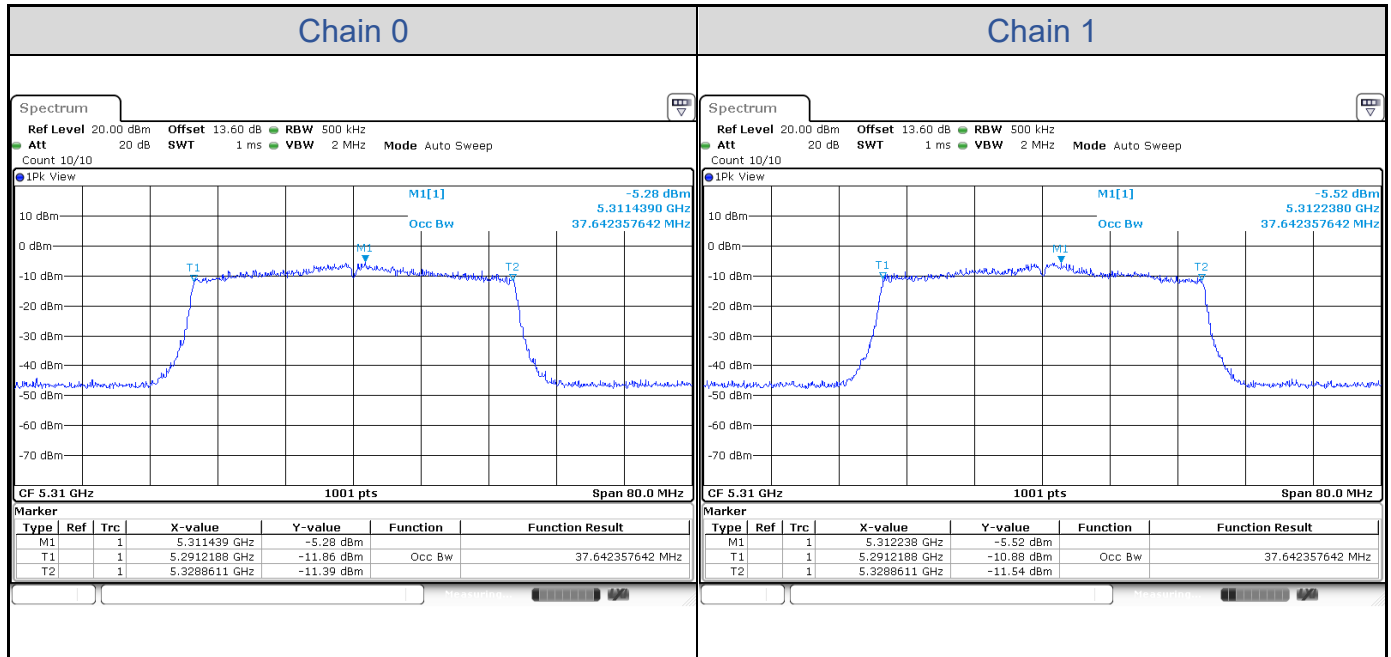
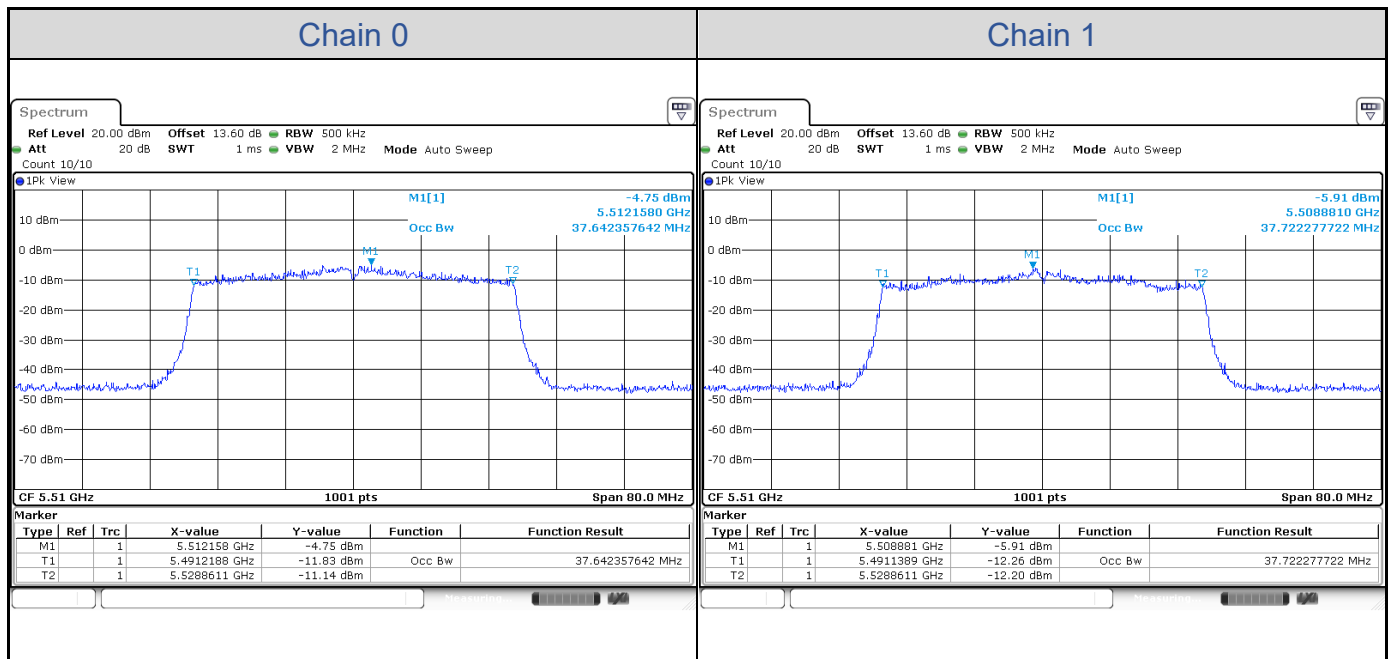


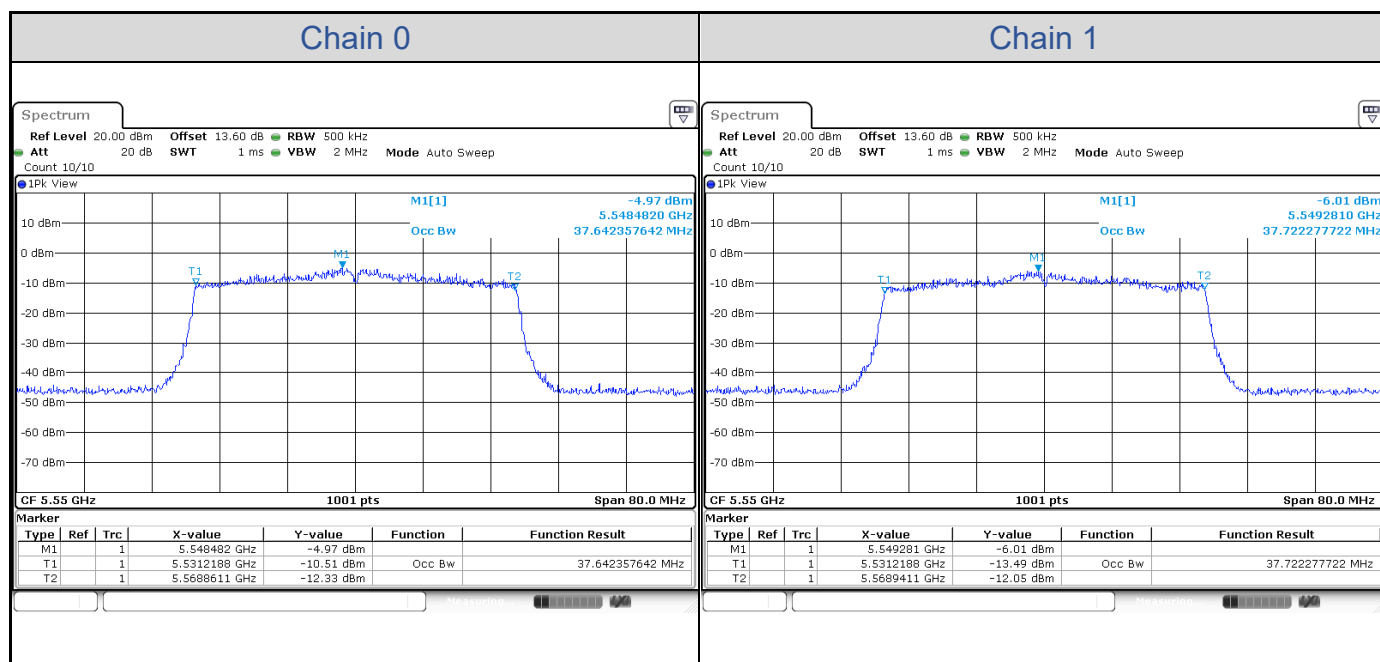
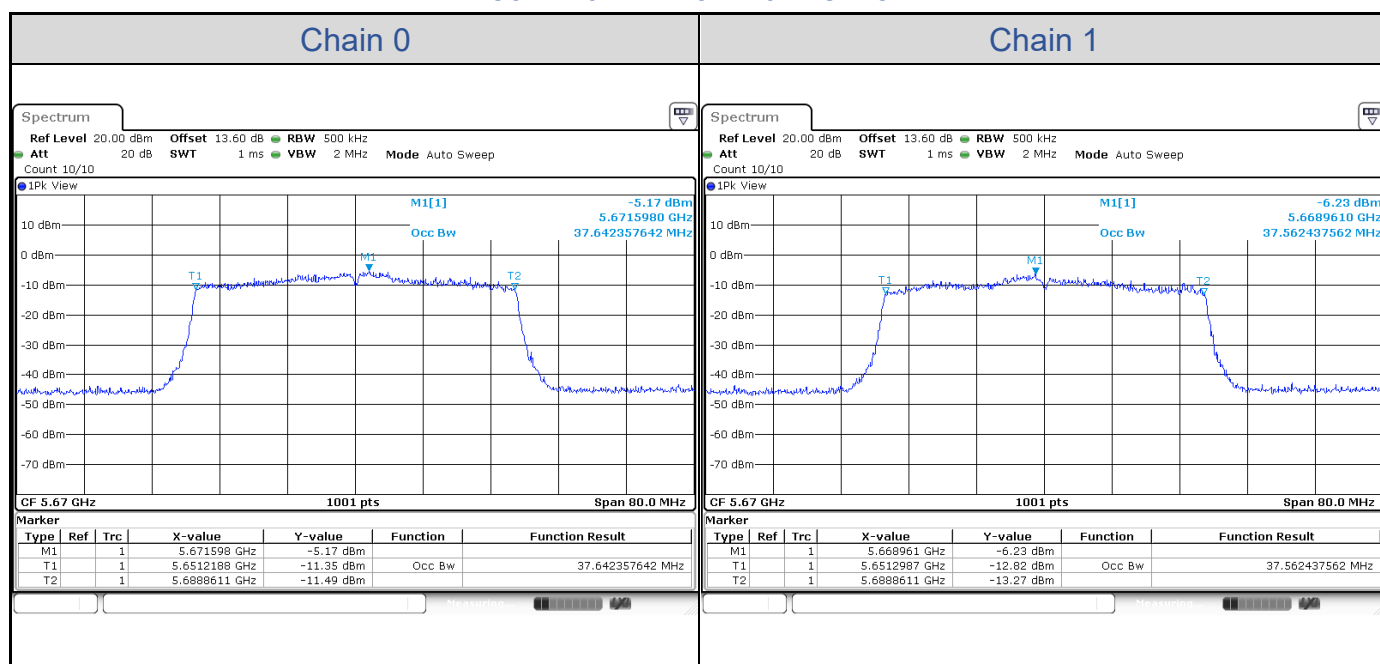
802.11ax HE40

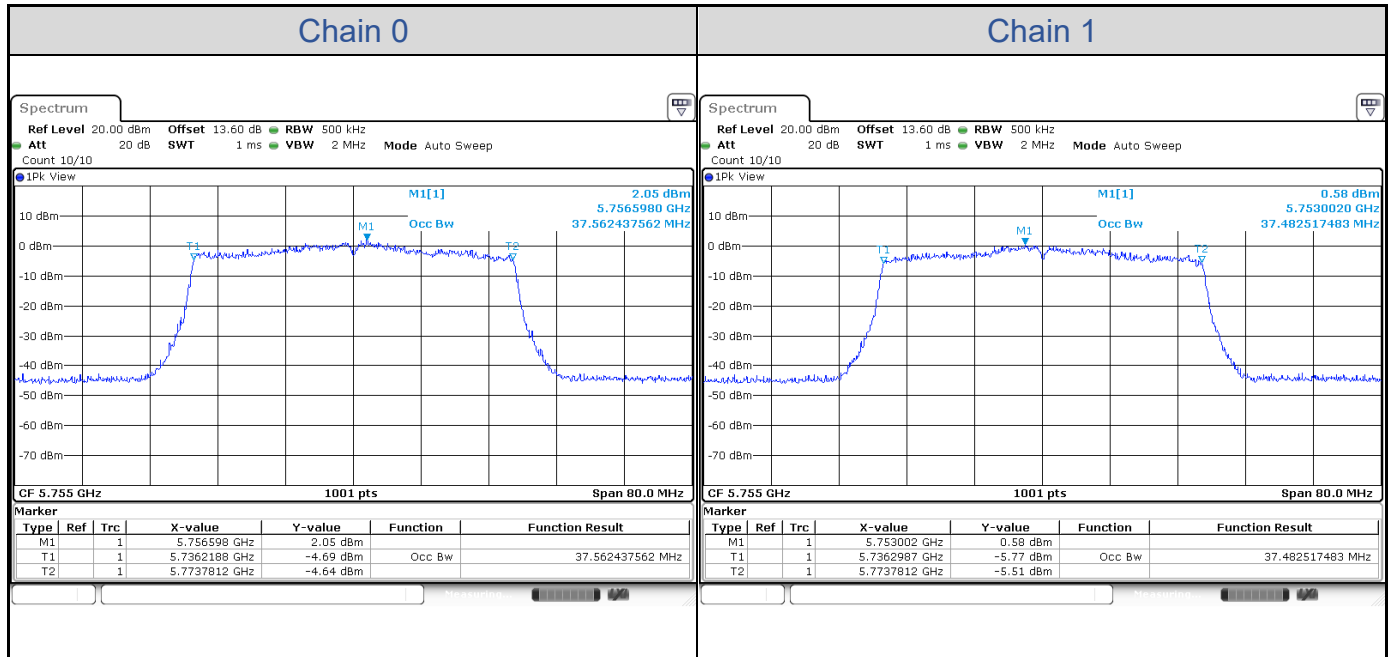
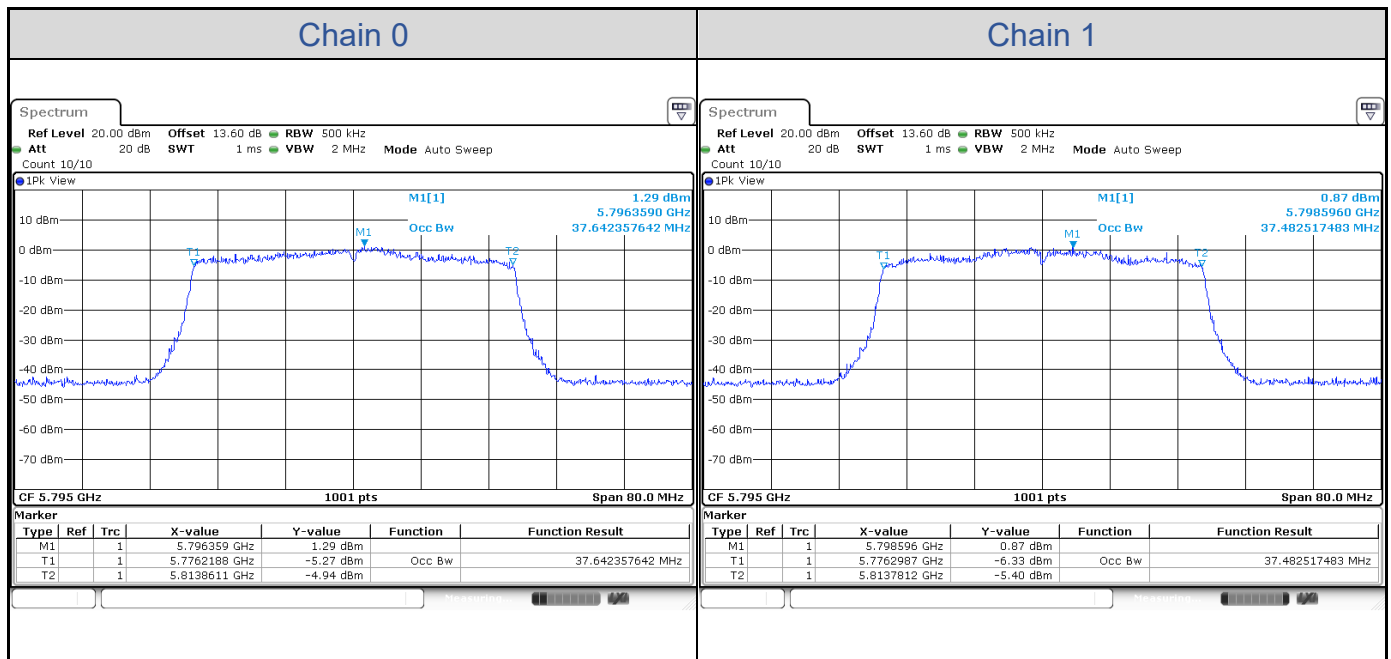
Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	38	5190	37.64	37.56
	46	5230	37.64	37.64
U-NII-2A	54	5270	37.64	37.64
	62	5310	37.64	37.64
U-NII-2C	102	5510	37.64	37.72
	110	5550	37.64	37.72
	134	5670	37.64	37.56
U-NII-3	151	5755	37.56	37.48
	159	5795	37.64	37.48

802.11ax HE40-Channel 38


802.11ax HE40-Channel 46

802.11ax HE40-Channel 54


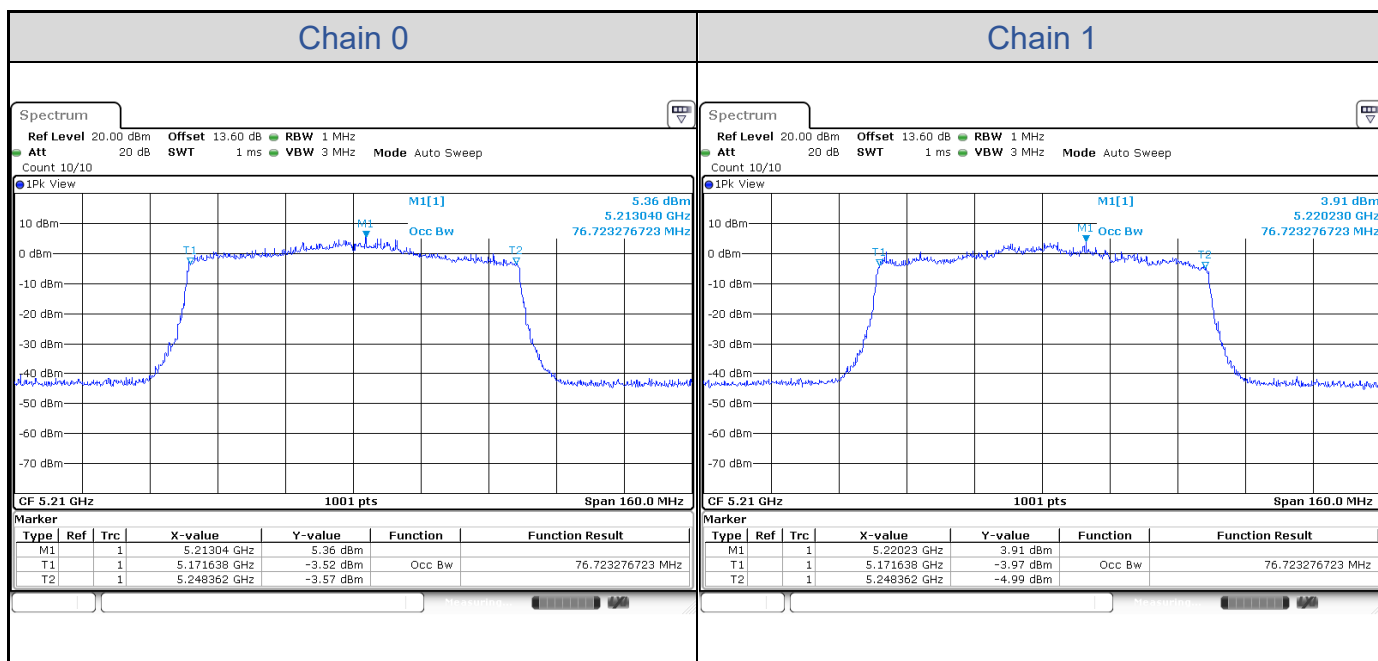
802.11ax HE40-Channel 62

802.11ax HE40-Channel 102


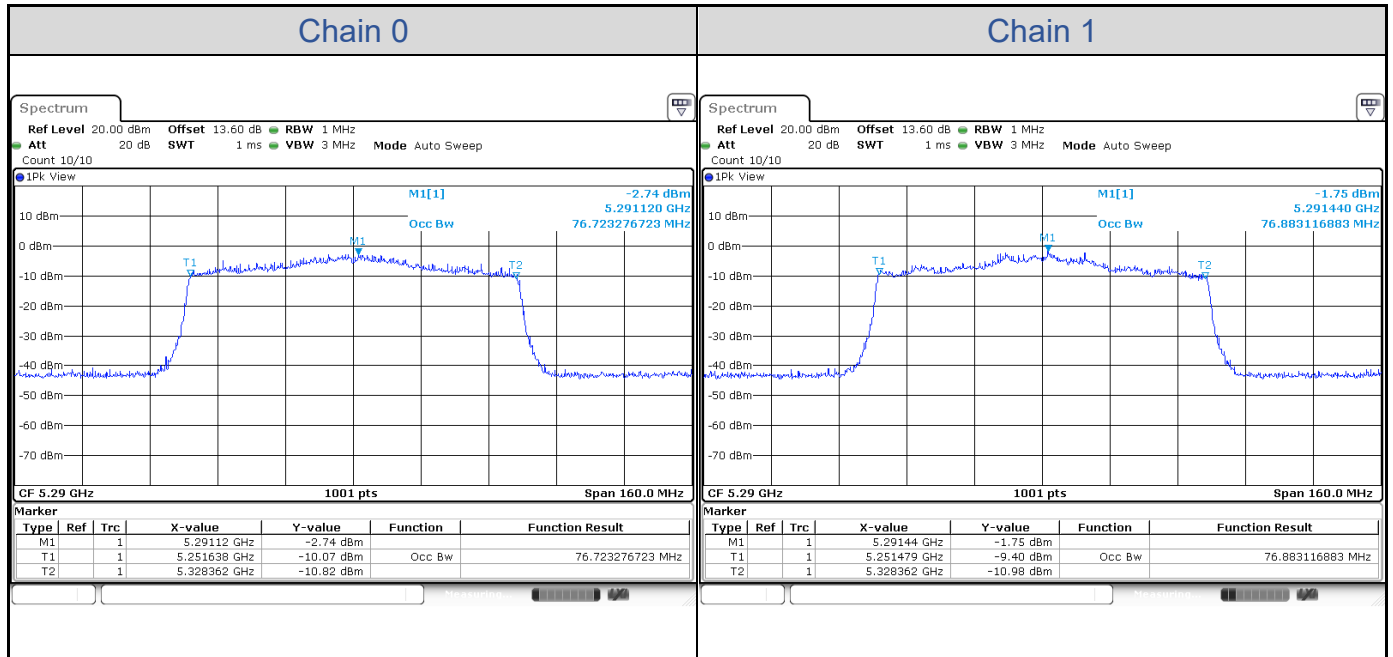
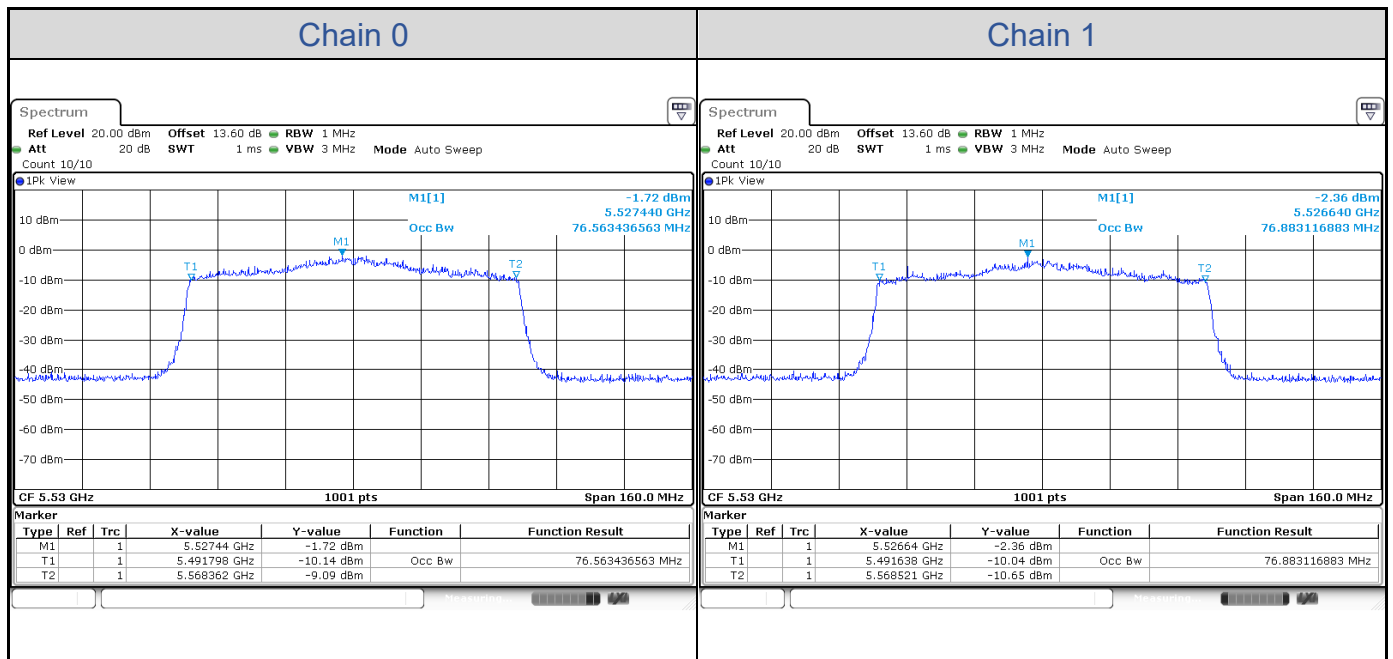
802.11ax HE40-Channel 110

802.11ax HE40-Channel 134


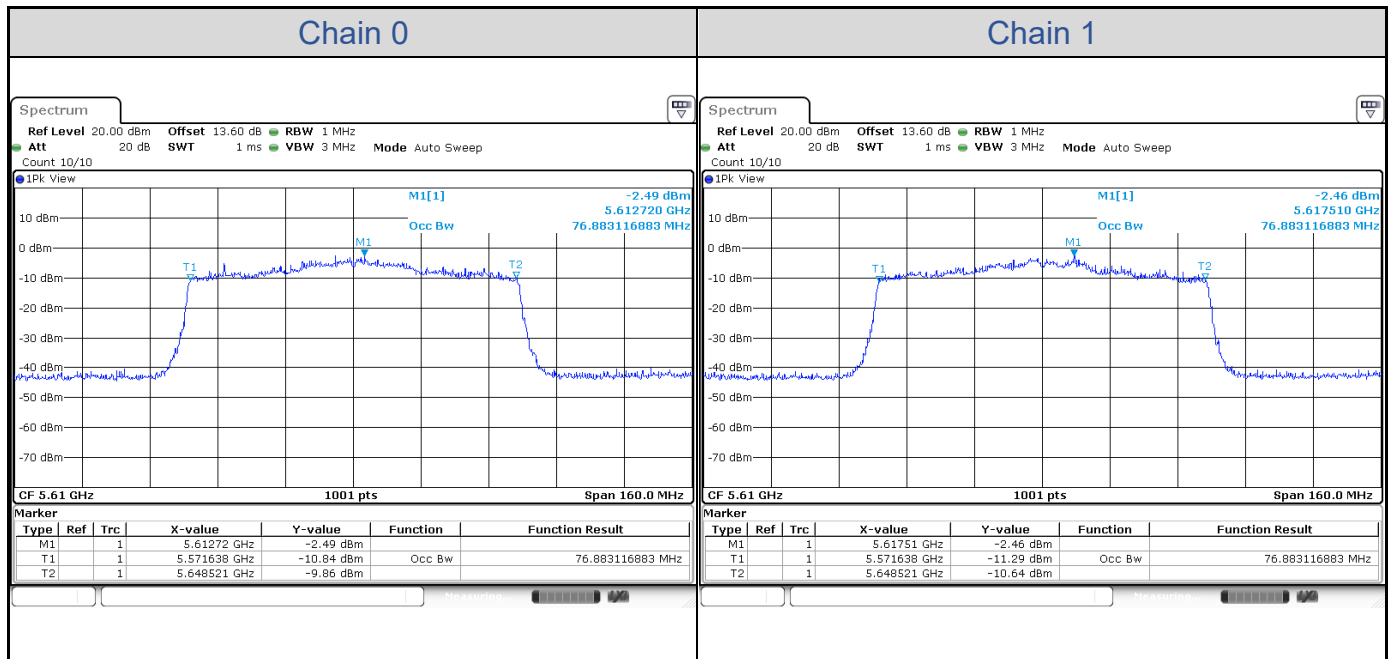
802.11ax HE40-Channel 151

802.11ax HE40-Channel 159


802.11ax HE80

Band	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			Chain 0	Chain 1
U-NII-1	42	5210	76.72	76.72
U-NII-2A	58	5290	76.72	76.88
U-NII-2C	106	5530	76.56	76.88
	122	5610	76.88	76.88
U-NII-3	155	5775	76.56	76.56

802.11ax HE80-Channel 42


802.11ax HE80-Channel 58

802.11ax HE80-Channel 106


802.11ax HE80-Channel 122

802.11ax HE80-Channel 155
