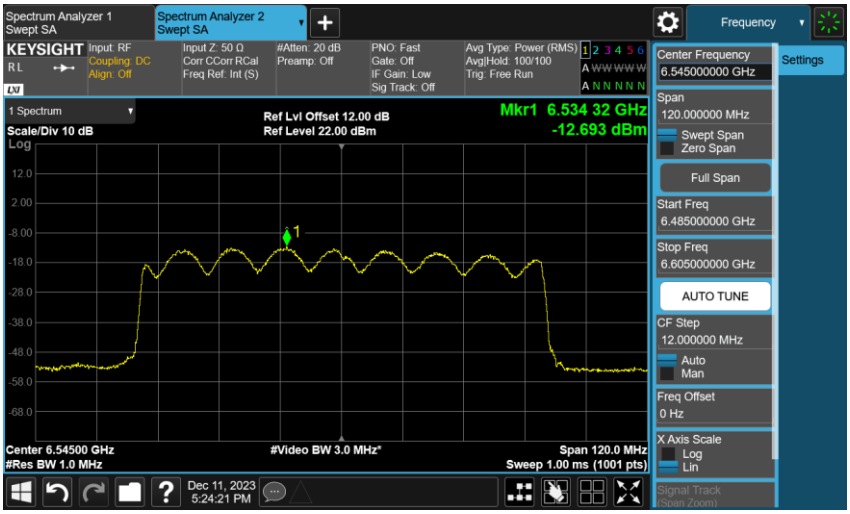
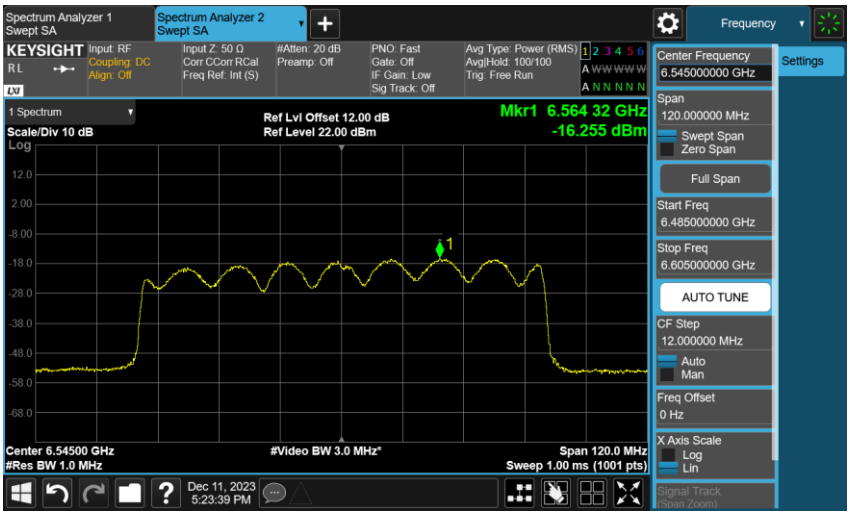
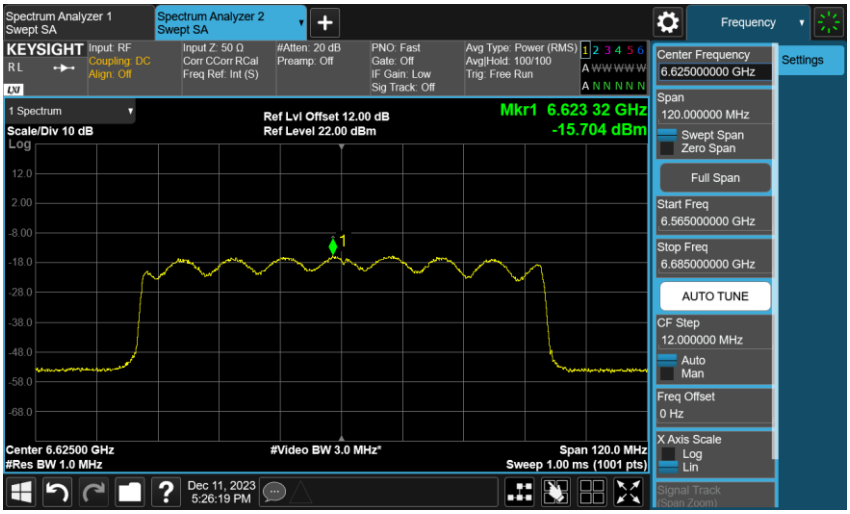
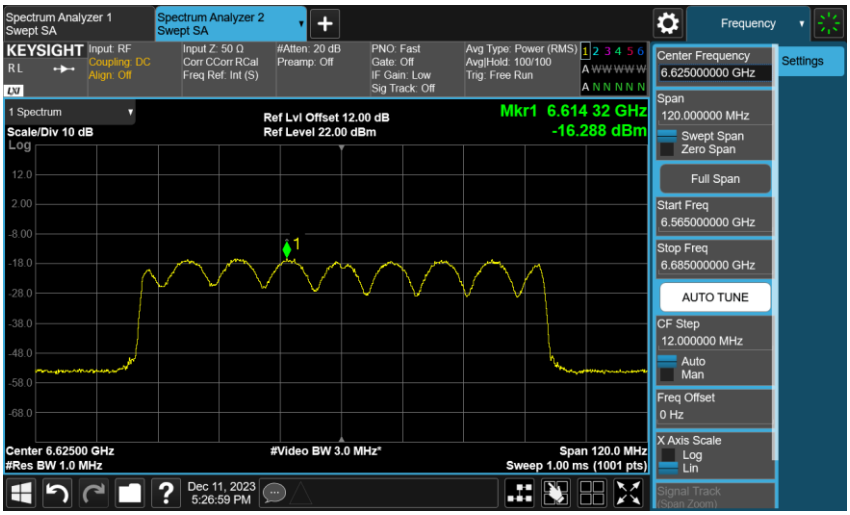
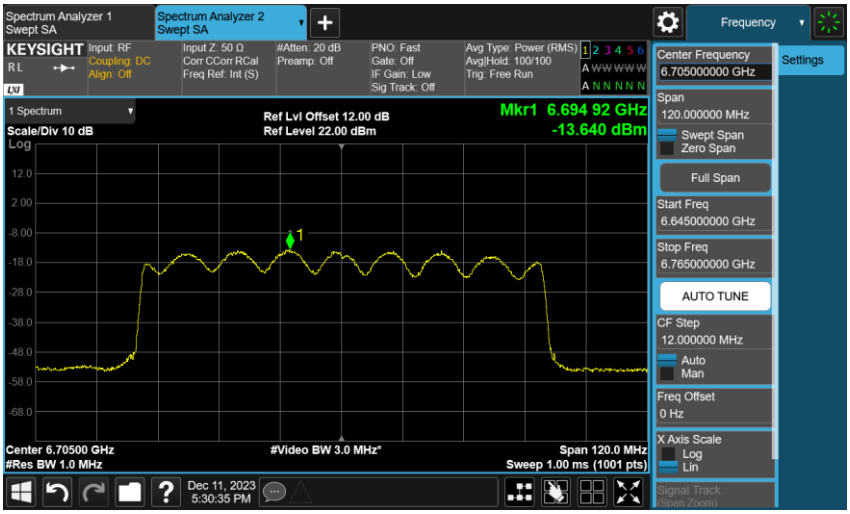
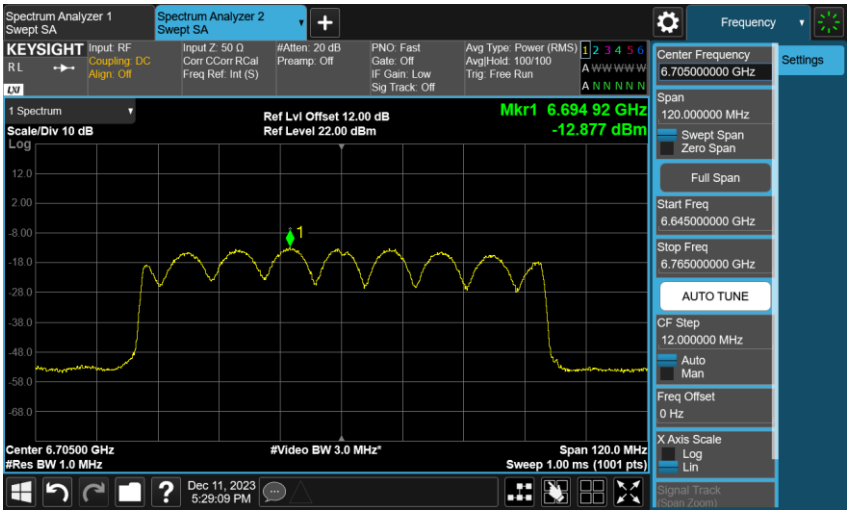
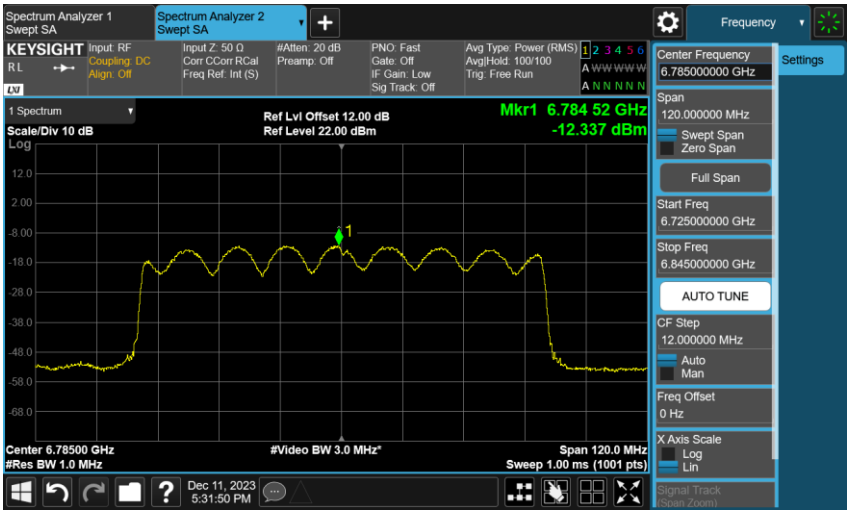
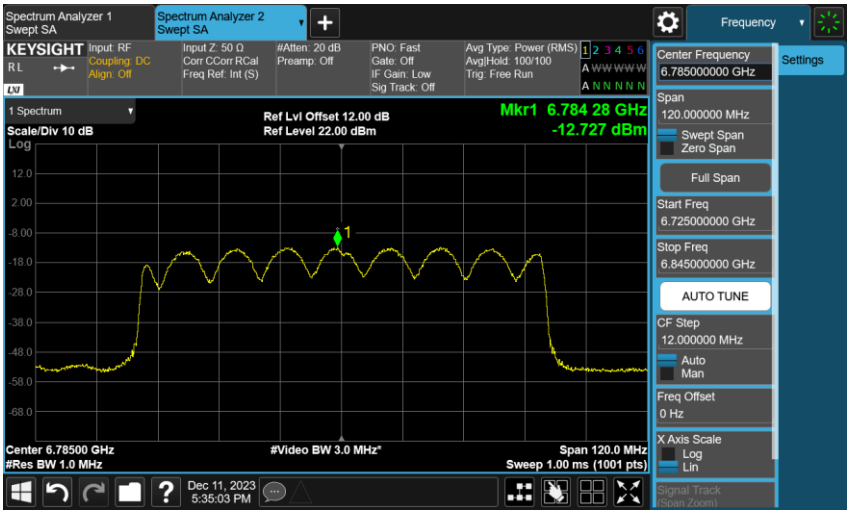
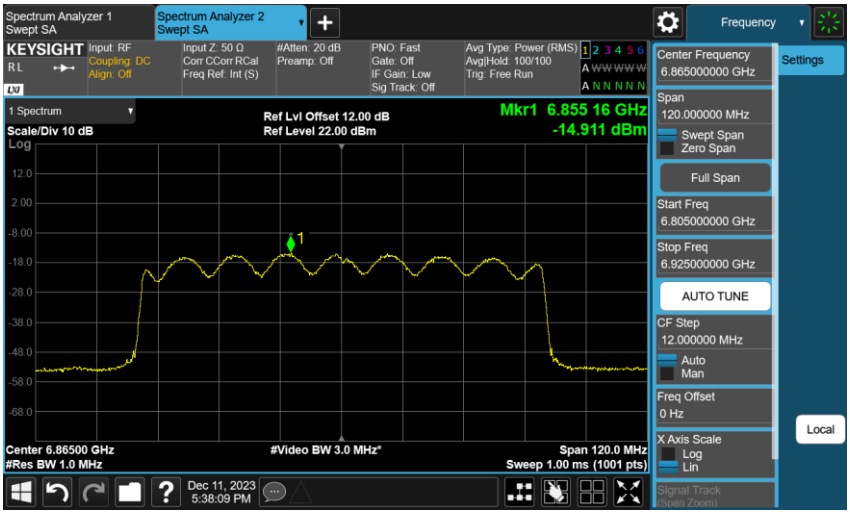
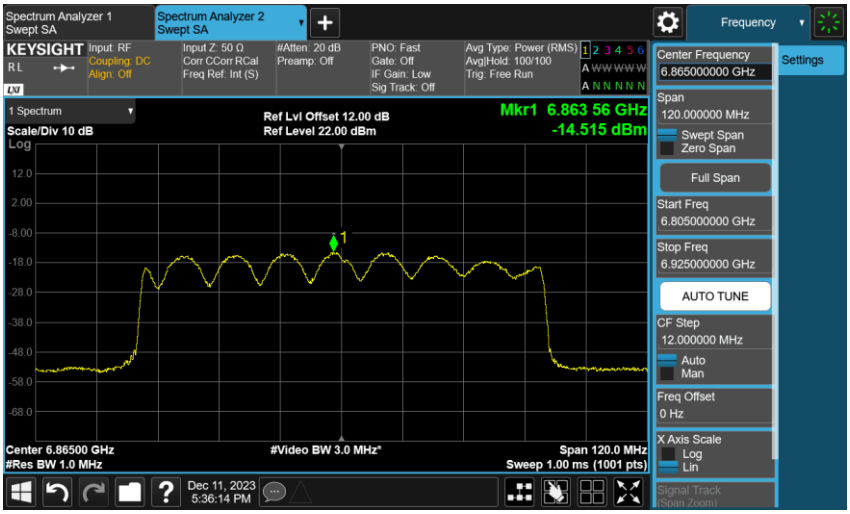
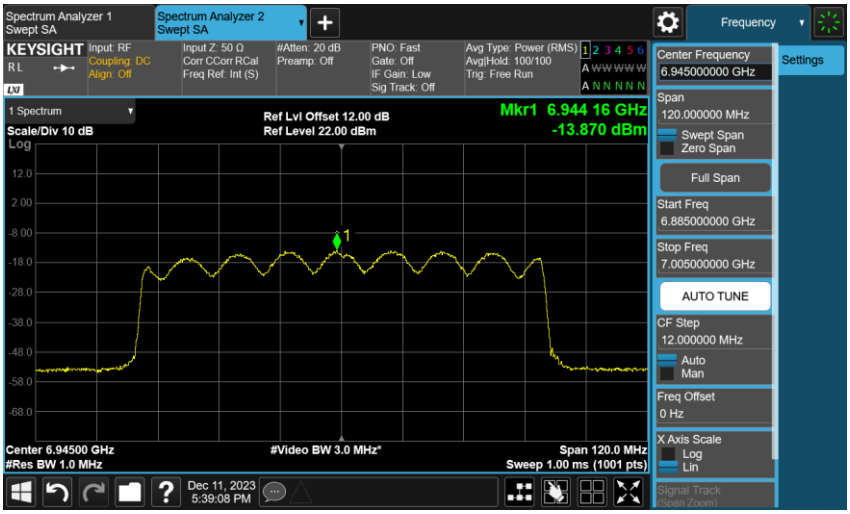
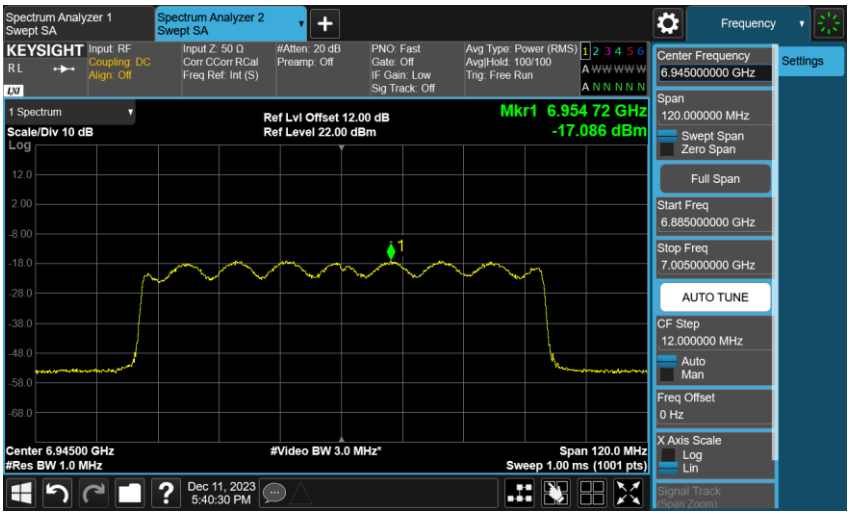
802.11ax HE80	
6545 MHz H	
6545 MHz V	

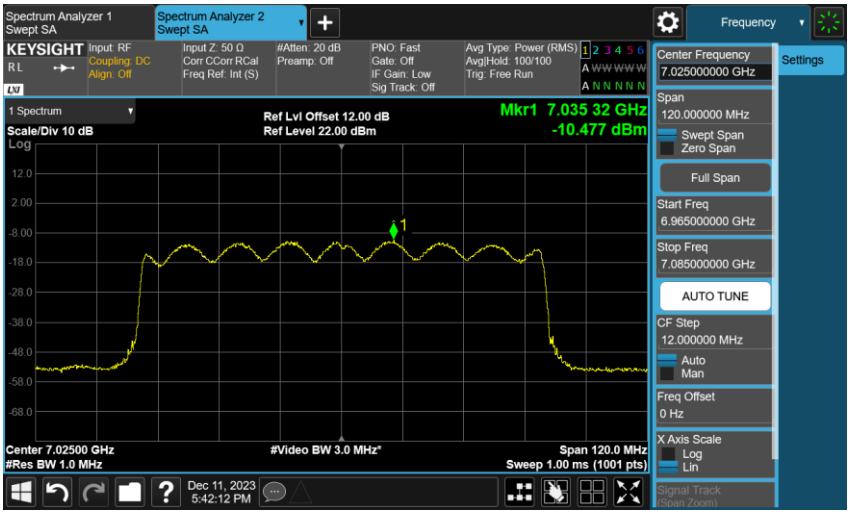
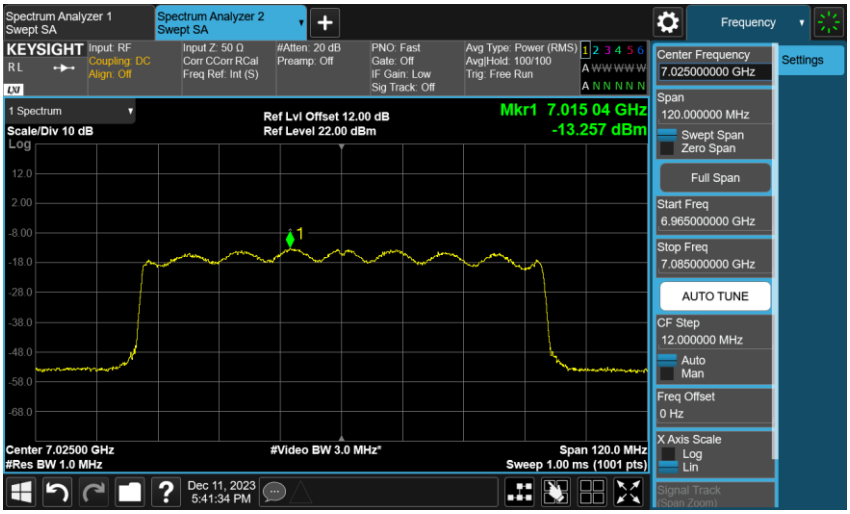
802.11ax HE80	
6625 MHz H	
6625 MHz V	

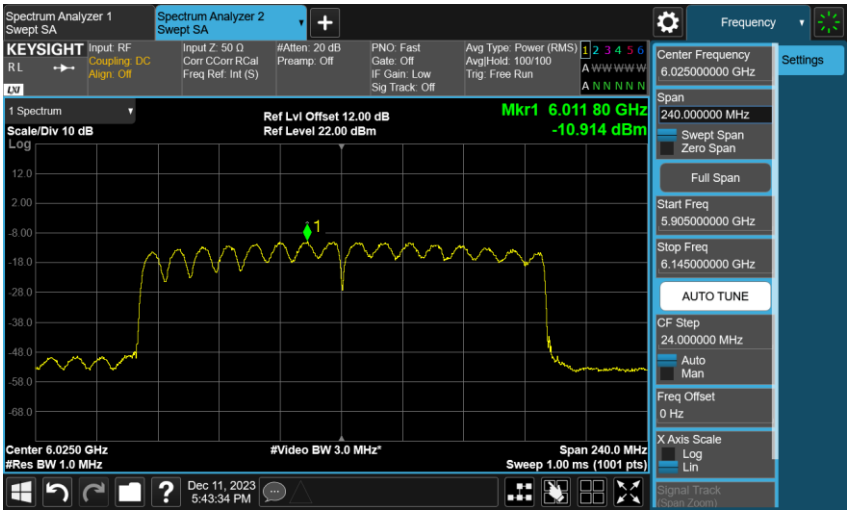
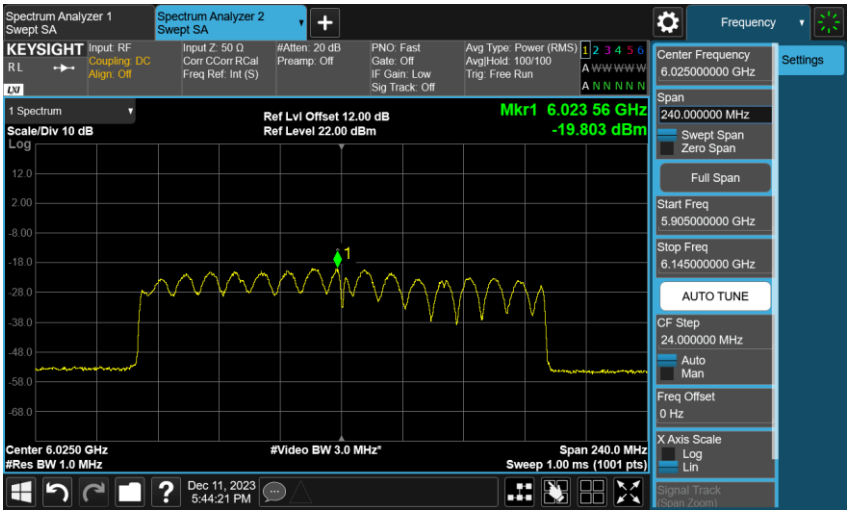
802.11ax HE80	
6705 MHz H	
6705 MHz V	

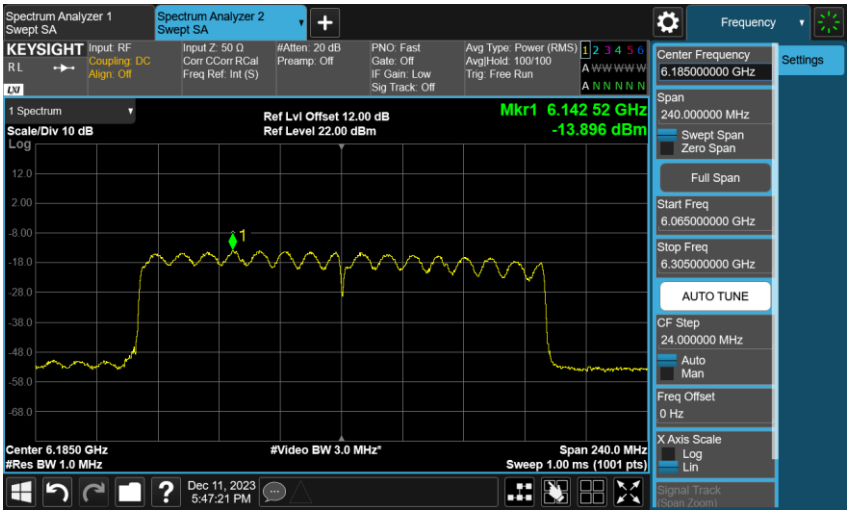
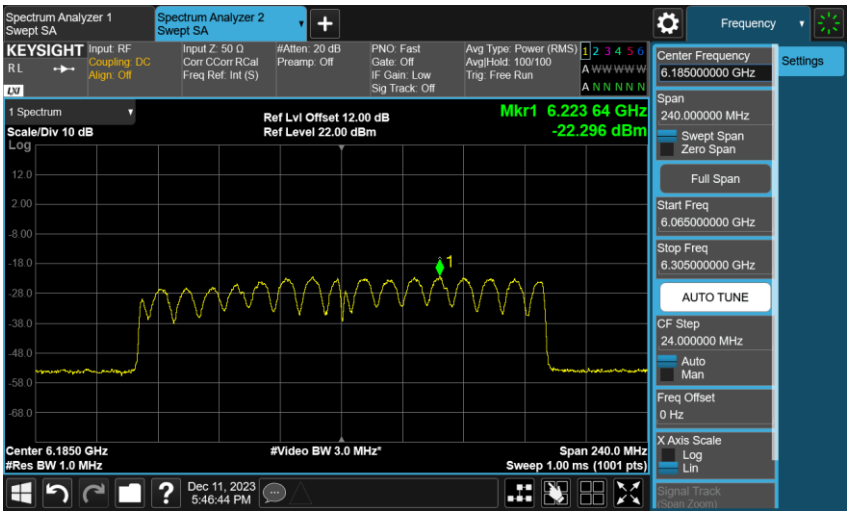
802.11ax HE80	
6785 MHz H	
6785 MHz V	

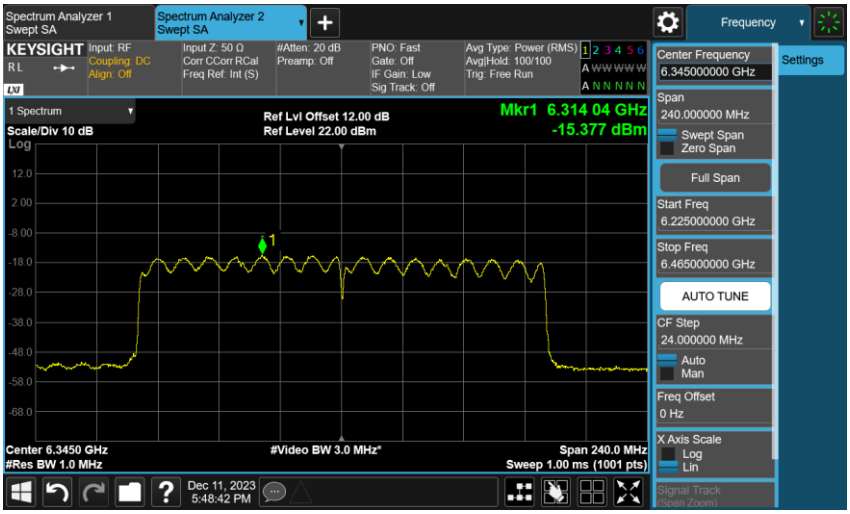
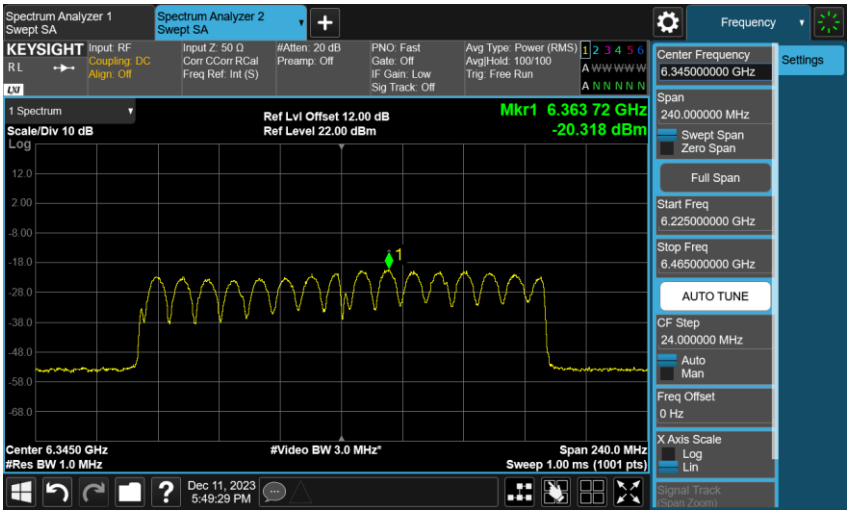
802.11ax HE80	
6865 MHz H	
6865 MHz V	

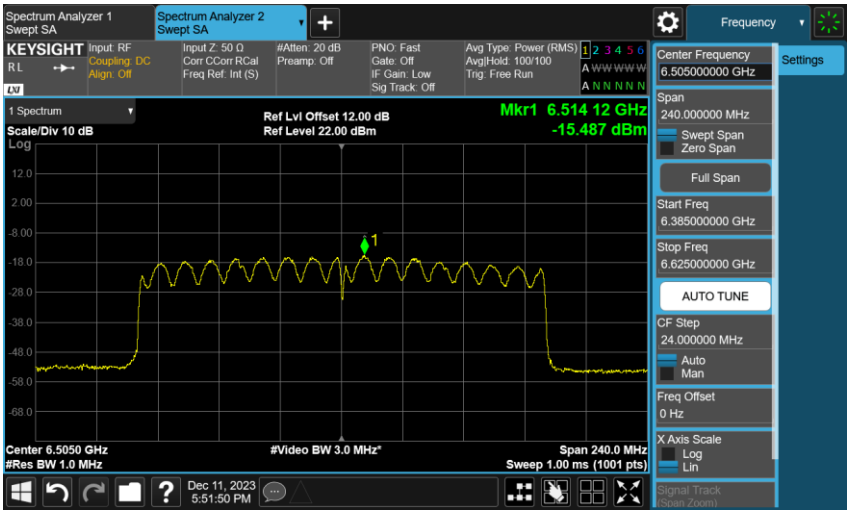
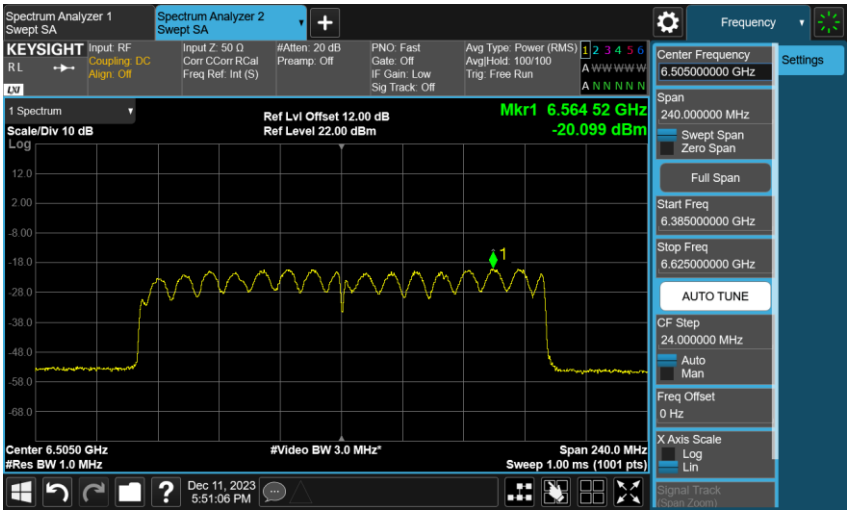
802.11ax HE80	
6945 MHz H	
6945 MHz V	

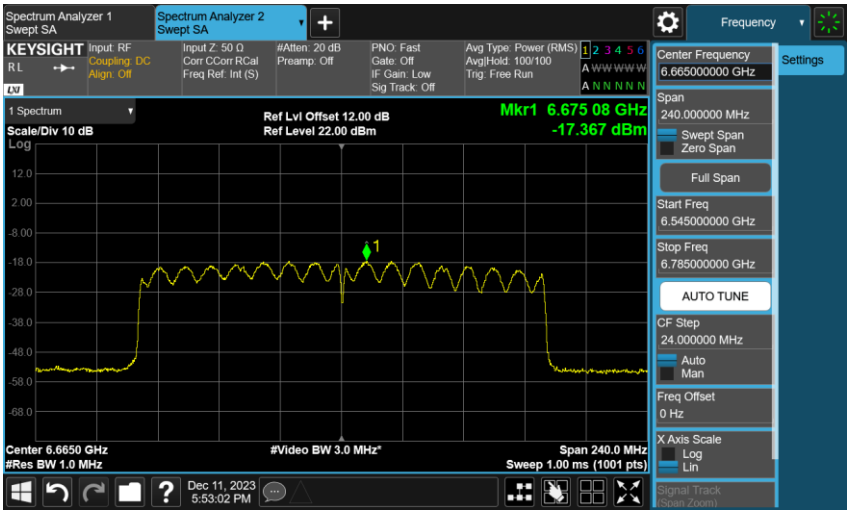
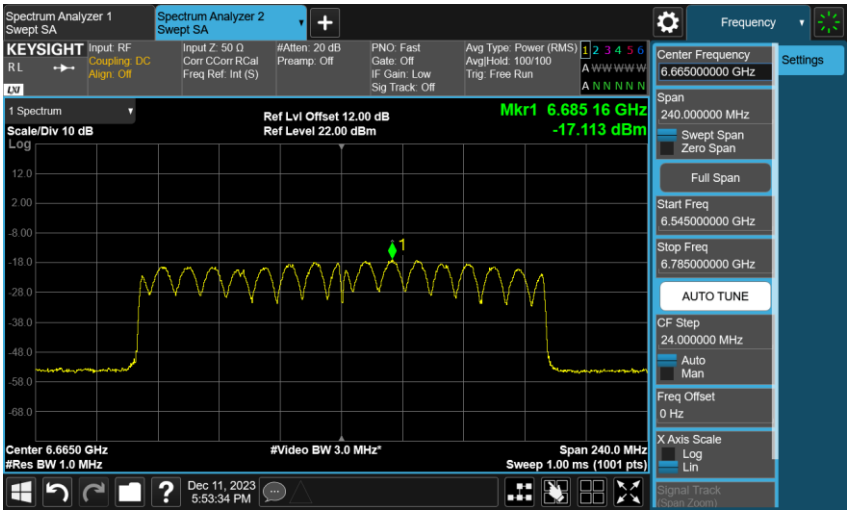
802.11ax HE80	
7025 MHz H	
7025 MHz V	

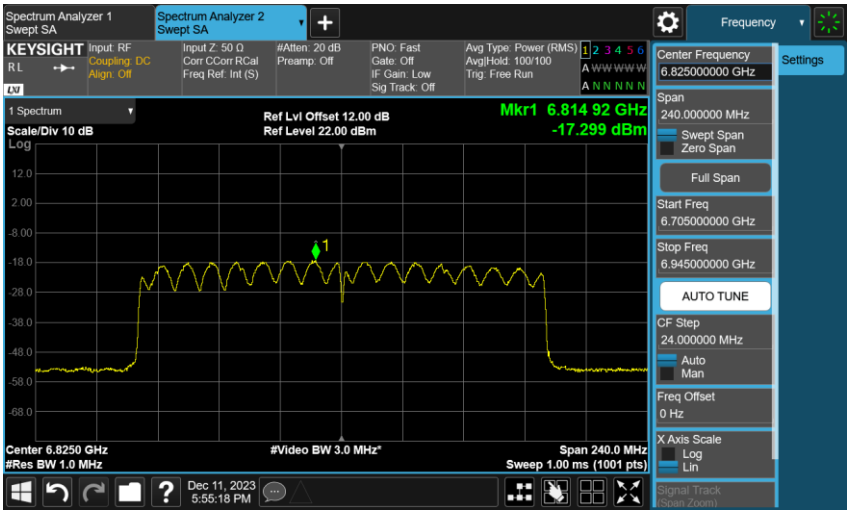
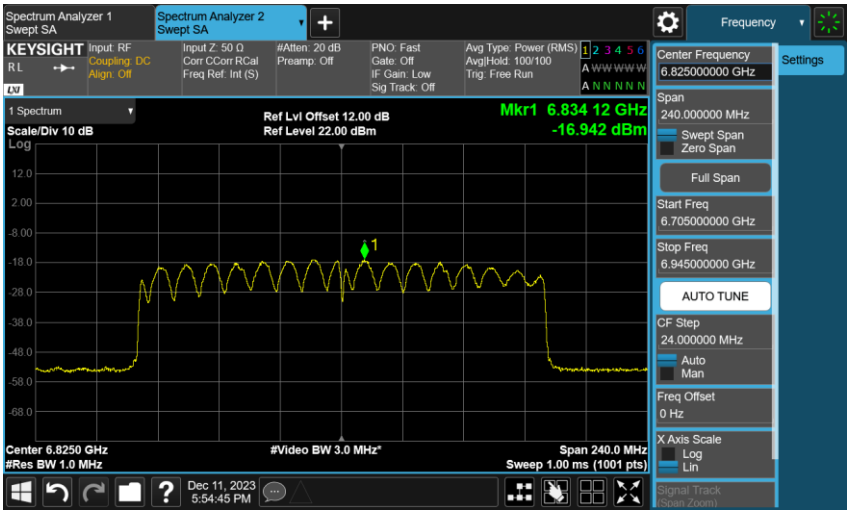
802.11ax HE160	
6025 MHz H	
6025 MHz V	

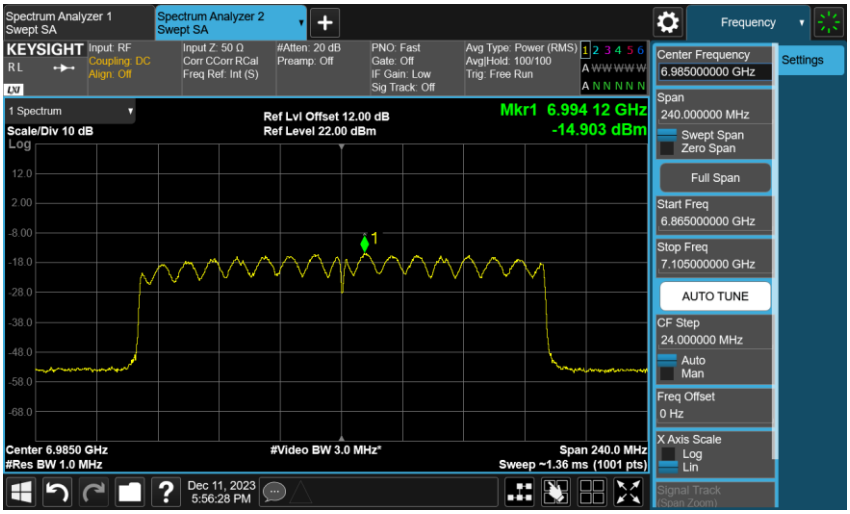
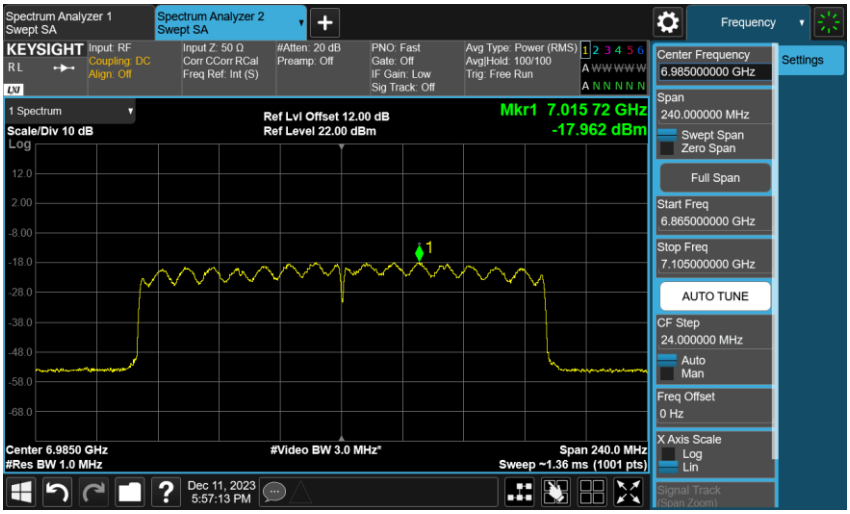
802.11ax HE160	
6185 MHz H	
6185 MHz V	

802.11ax HE160	
6345 MHz H	
6345 MHz V	

802.11ax HE160	
6505 MHz H	
6505 MHz V	

802.11ax HE160	
6665 MHz H	
6665 MHz V	

802.11ax HE160	
6825 MHz H	
6825 MHz V	

802.11ax HE160	
6985 MHz H	
6985 MHz V	

5.3.3. Contention Based Protocol Measurement

Contention Based Protocol							
Band	Bandwidth (MHz)	AWGN Freq. (MHz)	Number of Times	Number of Detection	AWGN Detection Probability (%)	Limit Probability (%)	Result
U-NII-5	20	6135	10	10	100	90	PASS
	160	6110	10	10	100	90	PASS
		6185	10	10	100	90	PASS
		6260	10	10	100	90	PASS
U-NII-6	20	6455	10	10	100	90	PASS
	160	6430	10	10	100	90	PASS
		6505	10	10	100	90	PASS
		6580	10	10	100	90	PASS
U-NII-7	20	6695	10	10	100	90	PASS
	160	6590	10	10	100	90	PASS
		6665	10	10	100	90	PASS
		6740	10	10	100	90	PASS
U-NII-8	20	7015	10	10	100	90	PASS
	160	6910	10	10	100	90	PASS
		6985	10	10	100	90	PASS
		7060	10	10	100	90	PASS

Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

Note 2 : Injected (AWGN) power Include Path Loss.

Contention Based Protocol Threshold Level Verify									
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Injected signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Level	EUT Tx Status
				Freq. (MHz)	Power (dBm)				
U-NII-5	20	37	6135	6135	-62.26	2.74	-65.00	-62.00	OFF
					-63.26	2.74	-66.00	-62.00	Minimal
					-72.26	2.74	-75.00	-62.00	ON
	160	47	6185	6110	-71.26	2.74	-74.00	-62.00	OFF
					-72.26	2.74	-75.00	-62.00	Minimal
					-74.26	2.74	-77.00	-62.00	ON
				6185	-69.26	2.74	-72.00	-62.00	OFF
					-70.26	2.74	-73.00	-62.00	Minimal
					-71.26	2.74	-74.00	-62.00	ON
				6260	-69.26	2.74	-72.00	-62.00	OFF
					-70.26	2.74	-73.00	-62.00	Minimal
					-75.26	2.74	-78.00	-62.00	ON
U-NII-6	20	101	6455	6455	-61.31	1.69	-63.00	-62.00	OFF
					-62.31	1.69	-64.00	-62.00	Minimal
					-73.31	1.69	-75.00	-62.00	ON
	160	111	6505	6430	-71.31	1.69	-73.00	-62.00	OFF
					-72.31	1.69	-74.00	-62.00	Minimal
					-74.31	1.69	-76.00	-62.00	ON
				6505	-62.31	1.69	-64.00	-62.00	OFF
					-63.31	1.69	-65.00	-62.00	Minimal
					-69.31	1.69	-71.00	-62.00	ON
				6580	-65.31	1.69	-67.00	-62.00	OFF
					-66.31	1.69	-68.00	-62.00	Minimal
					-73.31	1.69	-75.00	-62.00	ON

Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

Note 2 : Injected (AWGN) power Include Path Loss.

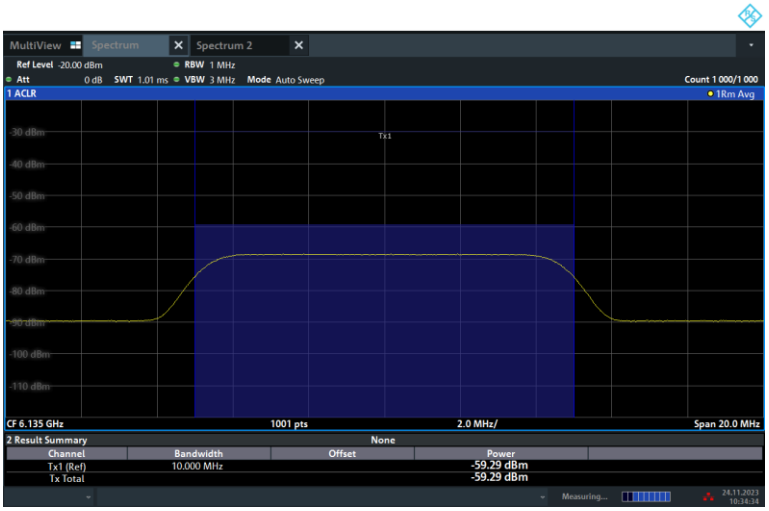
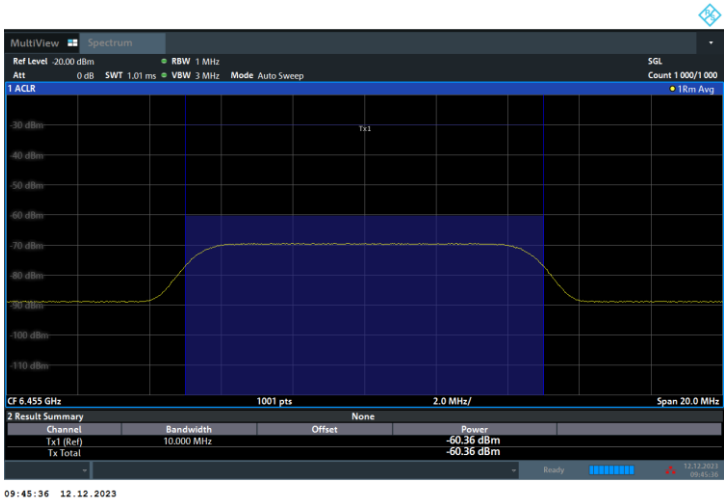
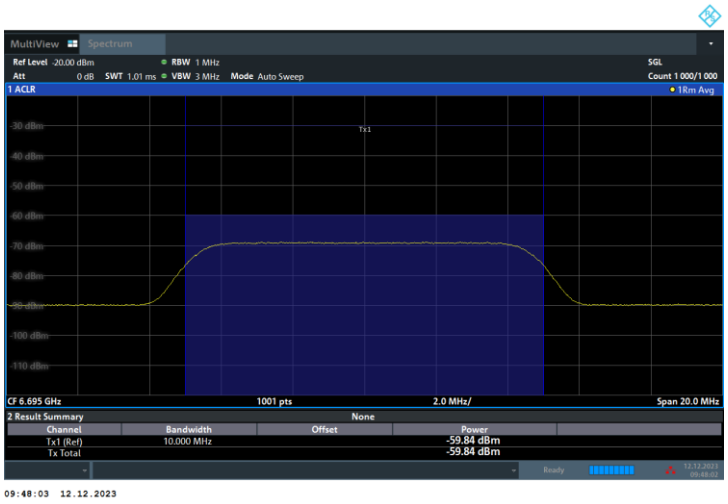
Contention Based Protocol Threshold Level Verify									
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Injected signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Level	EUT Tx Status
				Freq. (MHz)	Power (dBm)				
U-NII-7	20	149	6695	6695	-60.78	2.22	-63.00	-62.00	OFF
					-61.78	2.22	-64.00	-62.00	Minimal
					-79.78	2.22	-82.00	-62.00	ON
	160	143	6665	6590	-69.78	2.22	-72.00	-62.00	OFF
					-70.78	2.22	-73.00	-62.00	Minimal
					-72.78	2.22	-75.00	-62.00	ON
				6665	-65.78	2.22	-68.00	-62.00	OFF
					-66.78	2.22	-69.00	-62.00	Minimal
					-68.78	2.22	-71.00	-62.00	ON
				6740	-72.78	2.22	-75.00	-62.00	OFF
					-73.78	2.22	-76.00	-62.00	Minimal
					-74.78	2.22	-77.00	-62.00	ON
U-NII-8	20	213	7015	7015	-60.13	2.87	-63.00	-62.00	OFF
					-61.13	2.87	-64.00	-62.00	Minimal
					-81.13	2.87	-84.00	-62.00	ON
	160	207	6985	6910	-68.13	2.87	-71.00	-62.00	OFF
					-69.13	2.87	-72.00	-62.00	Minimal
					-71.13	2.87	-74.00	-62.00	ON
				6985	-65.13	2.87	-68.00	-62.00	OFF
					-66.13	2.87	-69.00	-62.00	Minimal
					-67.13	2.87	-70.00	-62.00	ON
				7060	-66.13	2.87	-69.00	-62.00	OFF
					-67.13	2.87	-70.00	-62.00	Minimal
					-69.13	2.87	-72.00	-62.00	ON

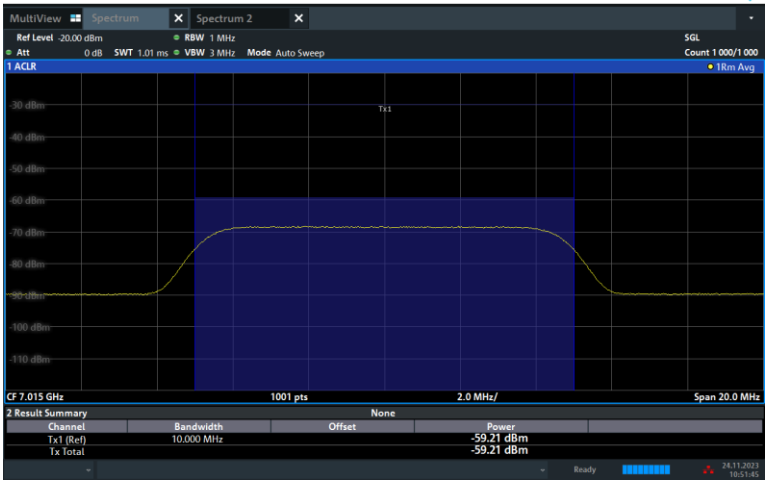
Note 1 : Adjusted power = Injected (AWGN) power (dBm) – Antenna Gain (dBi).

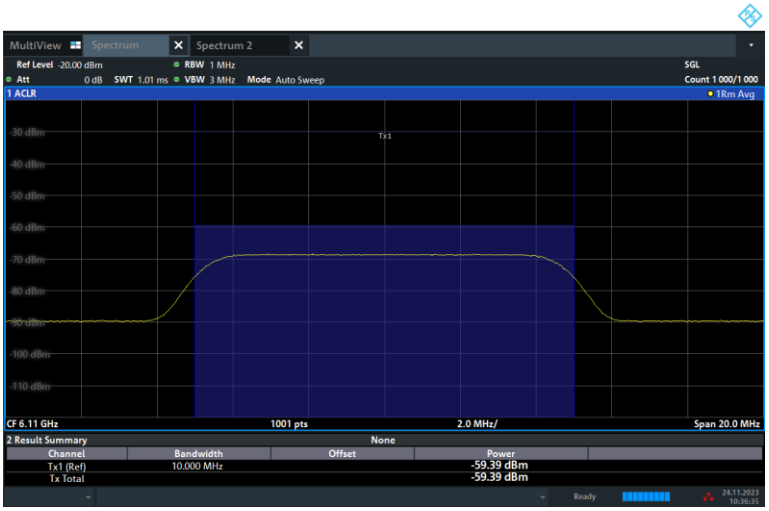
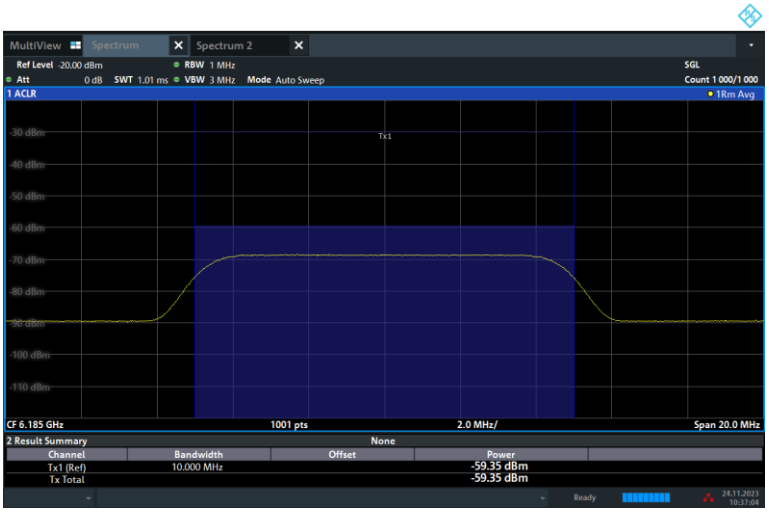
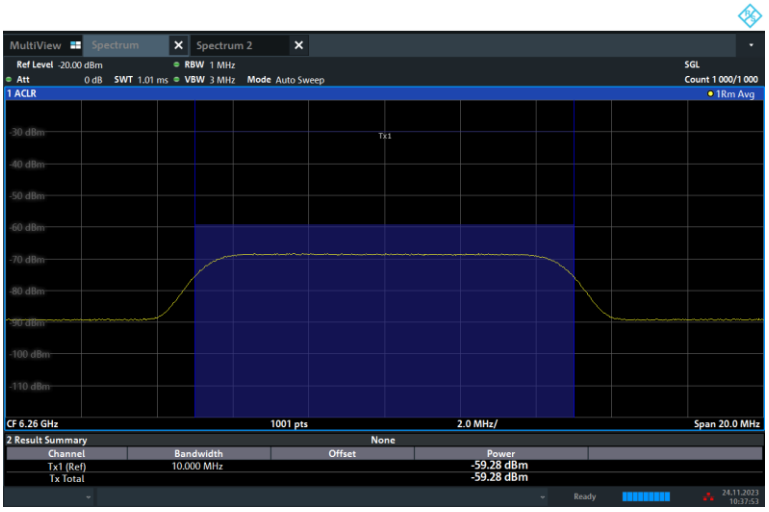
Note 2 : Injected (AWGN) power Include Path Loss.

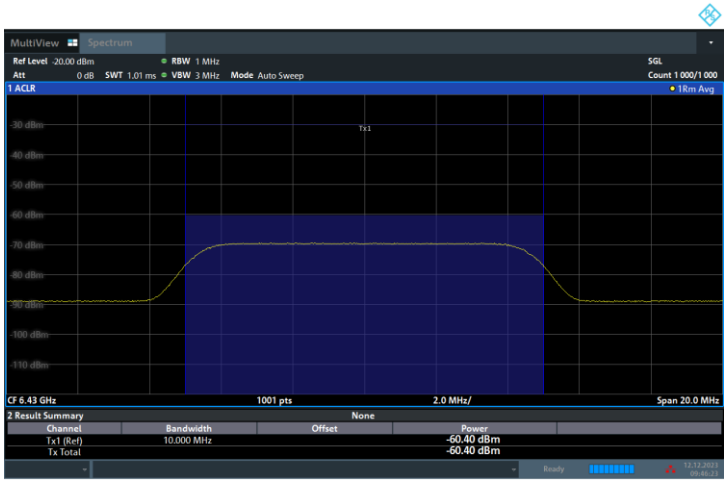
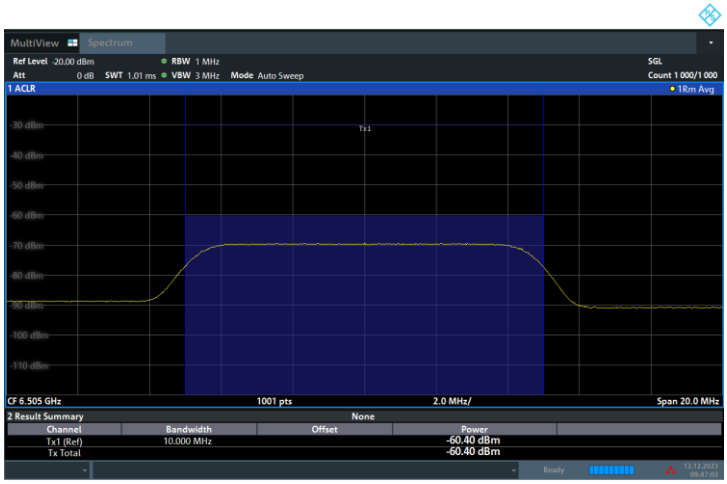
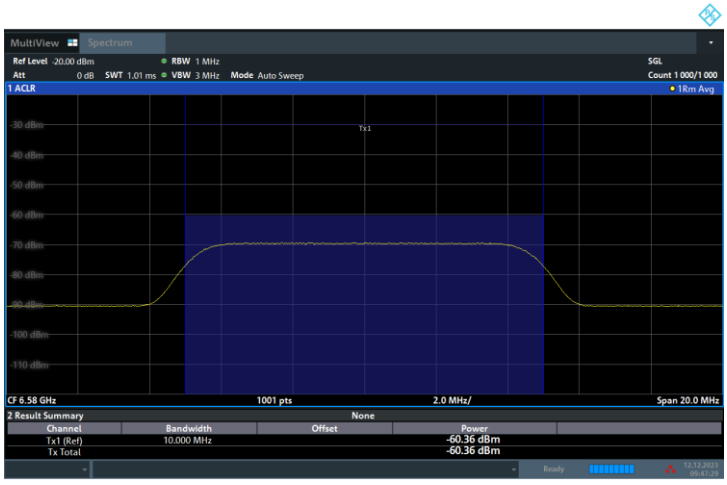
■ **Test Graphs**

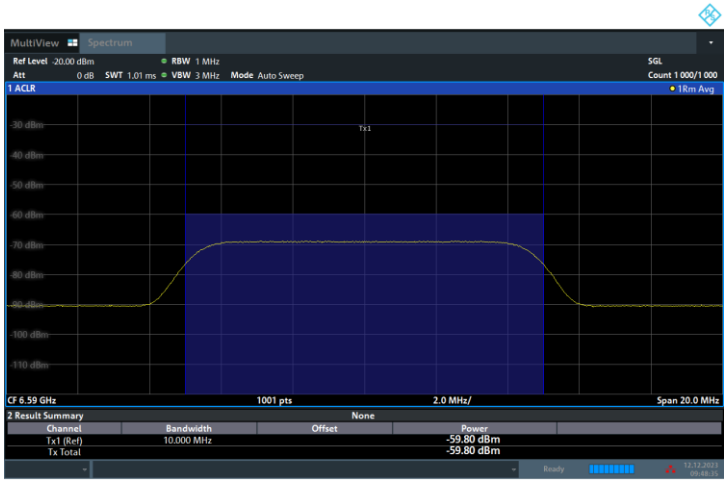
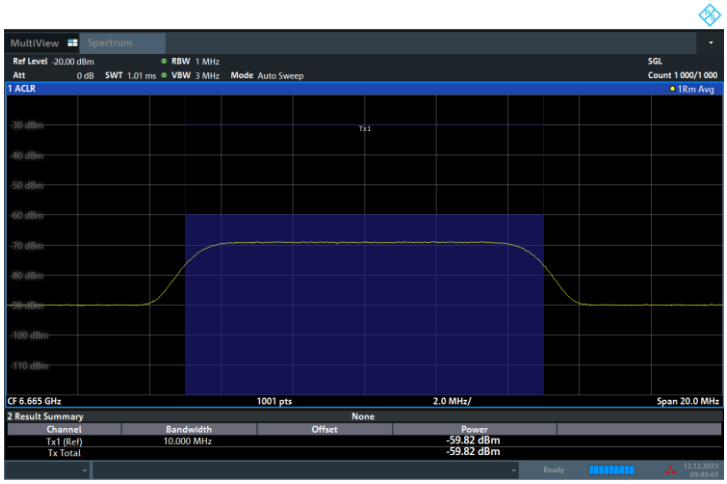
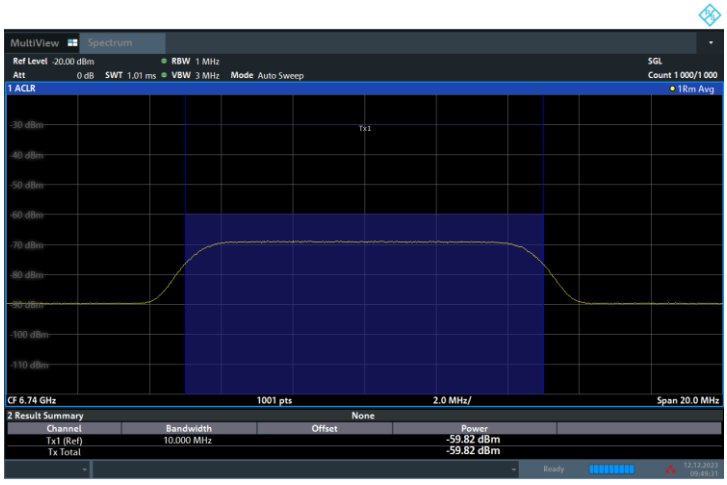
Threshold level of AWGN interference Plot

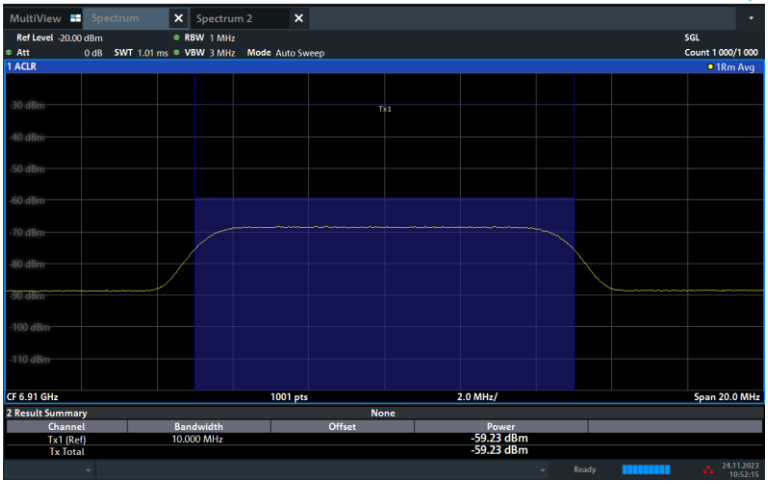
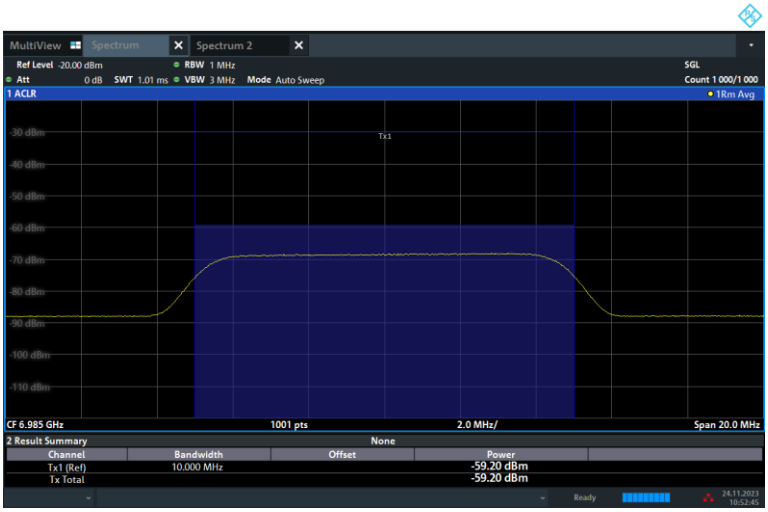
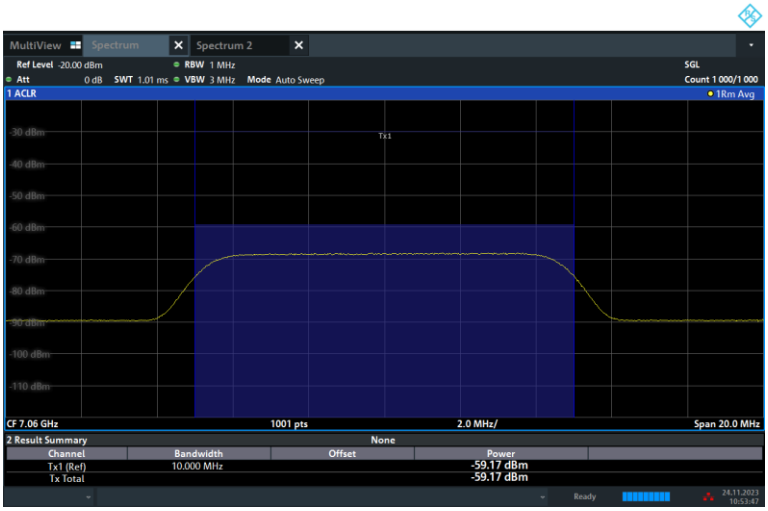
802.11ax HE20	
6135 MHz $f_{c1} = f_{c2}$	
6455 MHz $f_{c1} = f_{c2}$	
6695 MHz $f_{c1} = f_{c2}$	

802.11ax HE20	
7015 MHz $f_{c1} = f_{c2}$	

802.11ax HE160	
6110 MHz Lower Edge	
6185 MHz $f_{c1} = f_{c2}$	
6260 MHz Upper Edge	

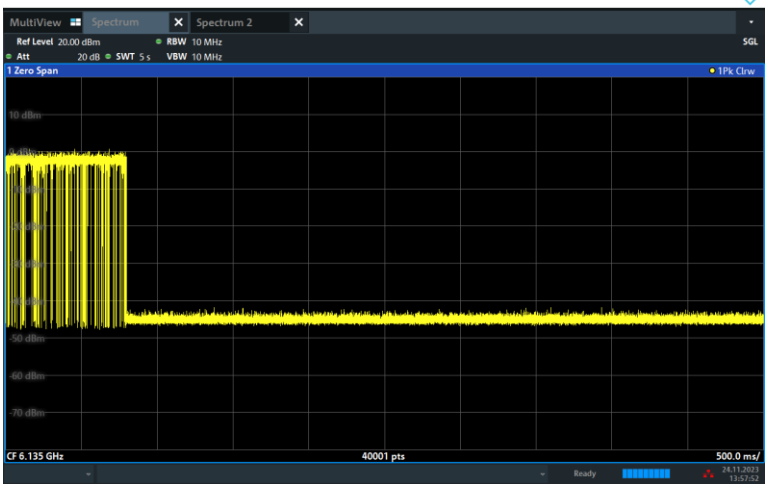
802.11ax HE160	
6430 MHz Lower Edge	
6505 MHz $f_{c1} = f_{c2}$	
6580 MHz Upper Edge	

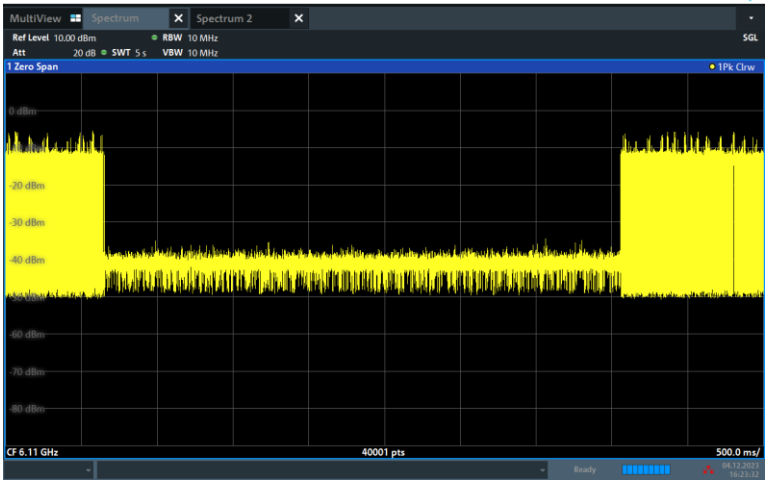
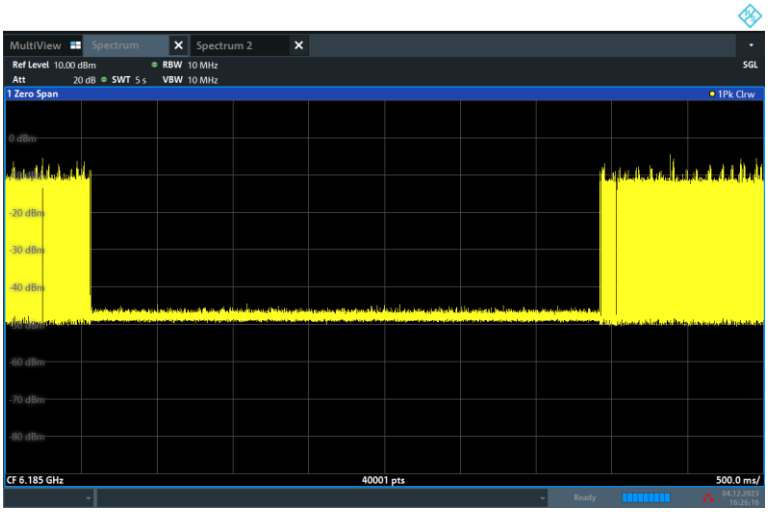
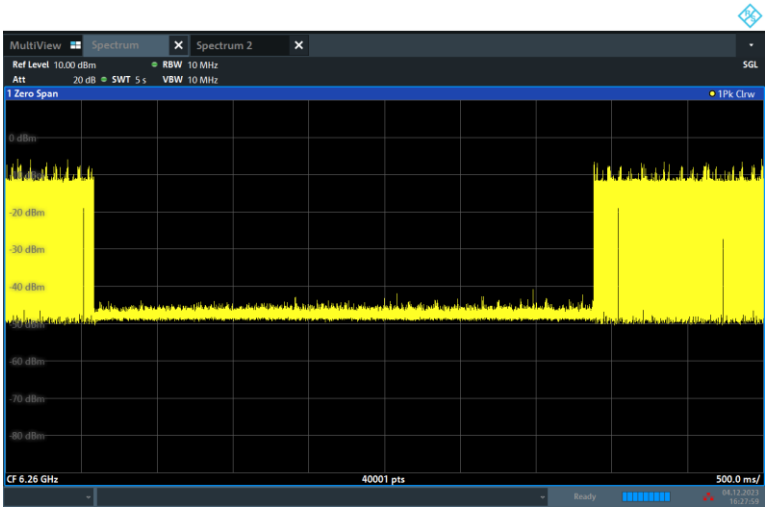
802.11ax HE160	
6590 MHz Lower Edge	
6665 MHz $f_{c1} = f_{c2}$	
6740 MHz Upper Edge	

802.11ax HE160	
6910 MHz Lower Edge	
6985 MHz $f_{c1} = f_{c2}$	
7060 MHz Upper Edge	

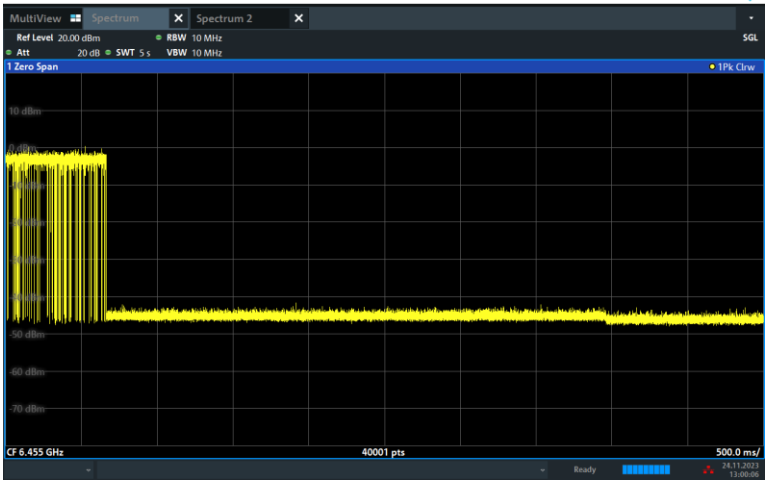
Contention Based Protocol Plot

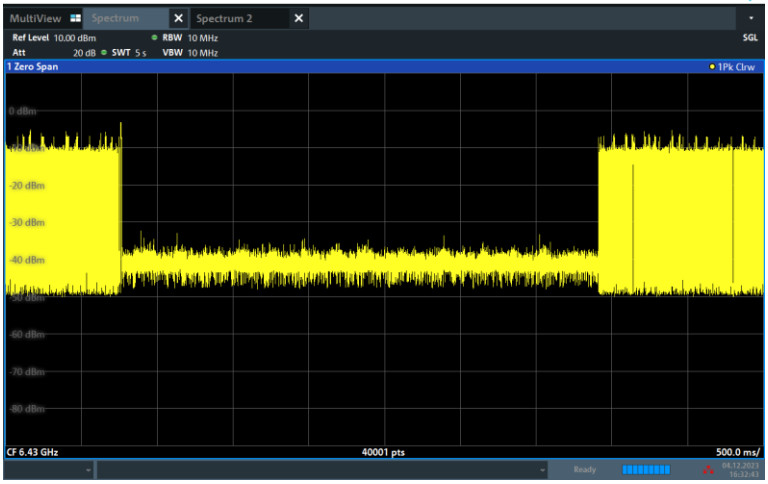
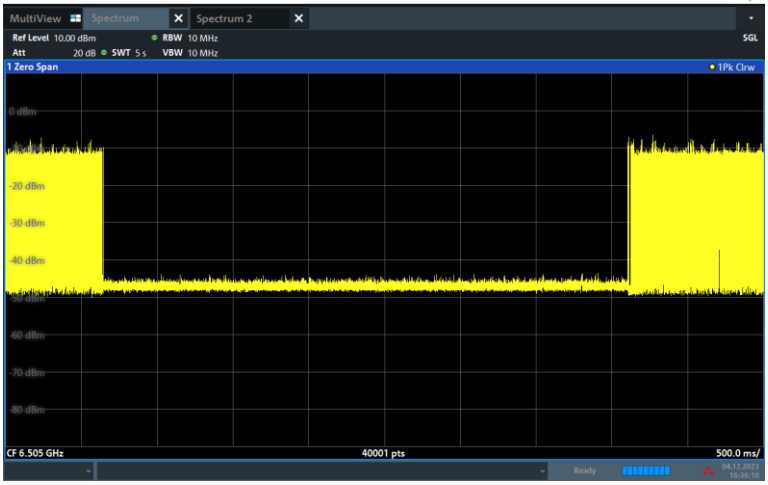
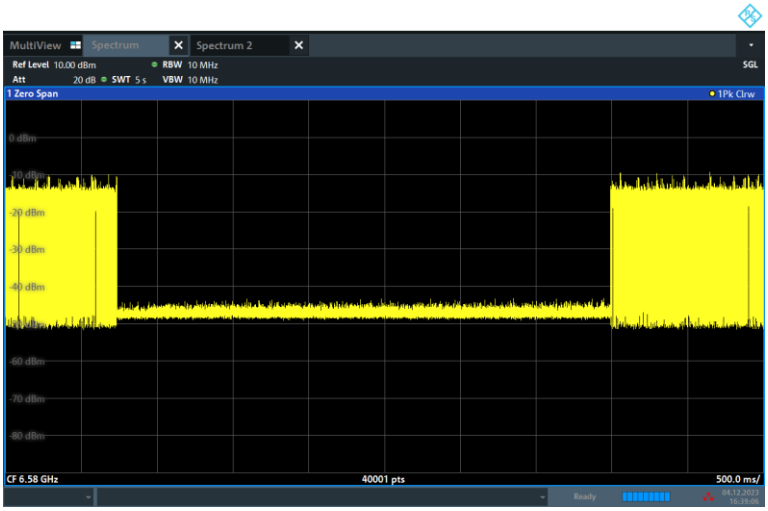
UNII 5:

802.11ax HE20	
6135 MHz $f_{c1} = f_{c2}$	

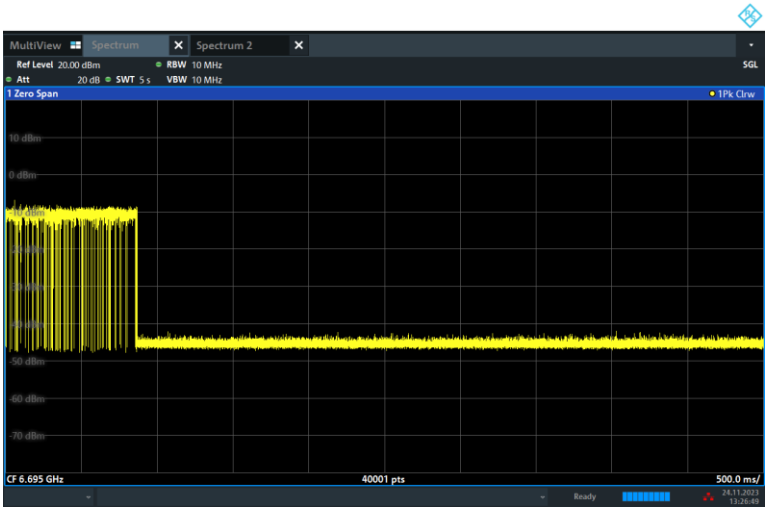
802.11ax HE160	
6110 MHz Lower Edge	
6185 MHz $f_{c1} = f_{c2}$	
6260 MHz Upper Edge	

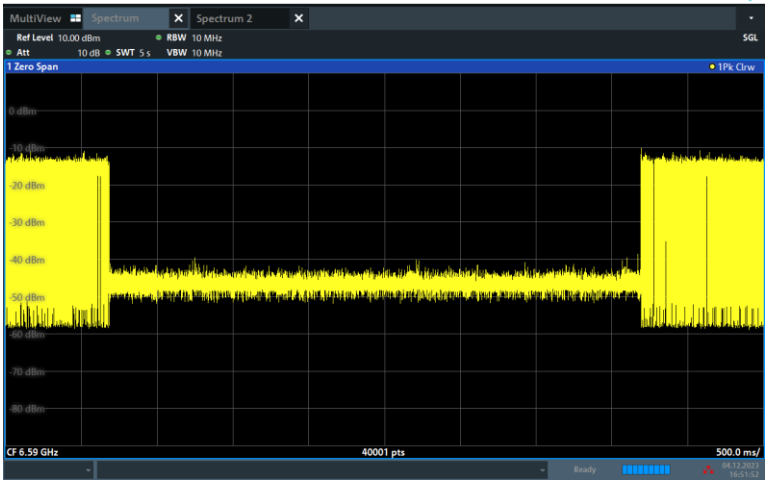
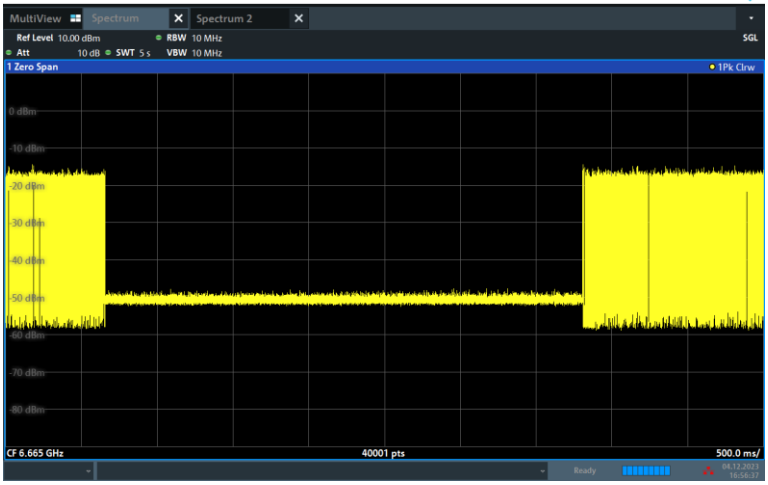
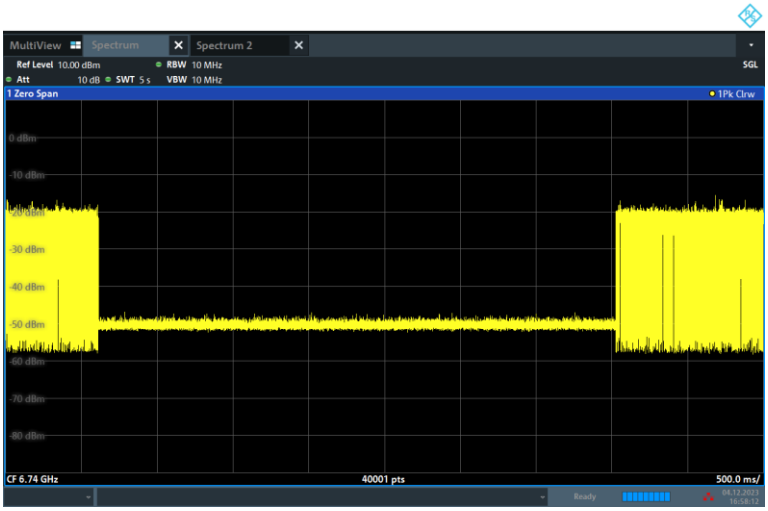
UNII 6

802.11ax HE20	
6455 MHz $f_{c1} = f_{c2}$	

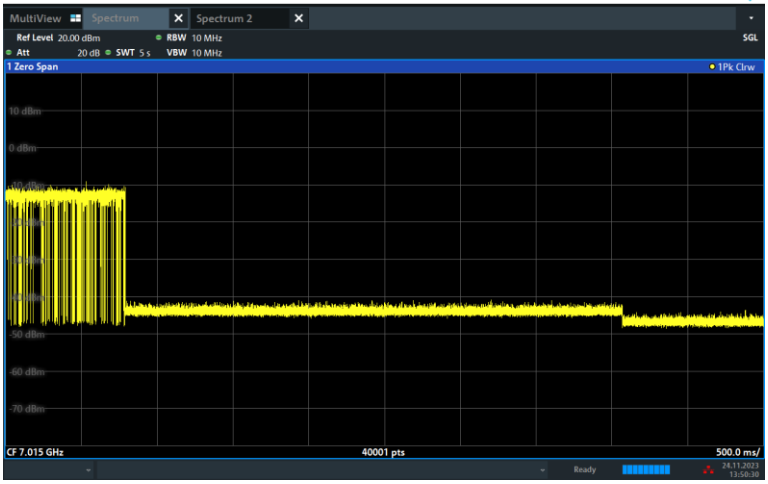
802.11ax HE160	
6430 MHz Lower Edge	
6505 MHz $f_{c1} = f_{c2}$	
6580 MHz Upper Edge	

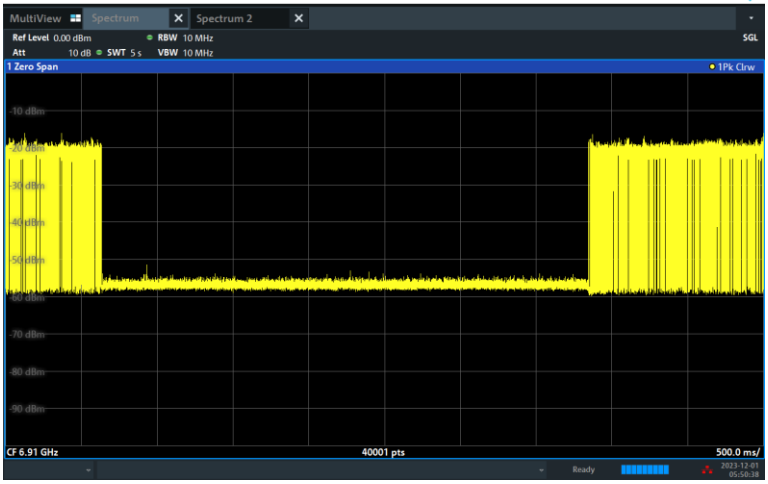
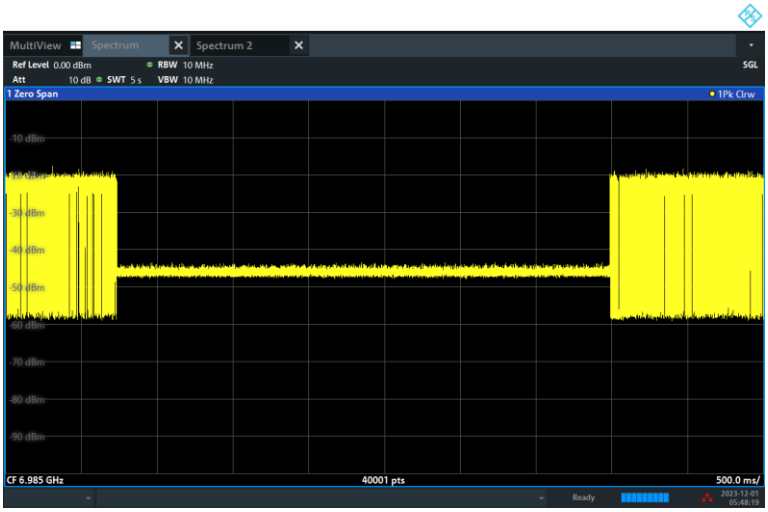
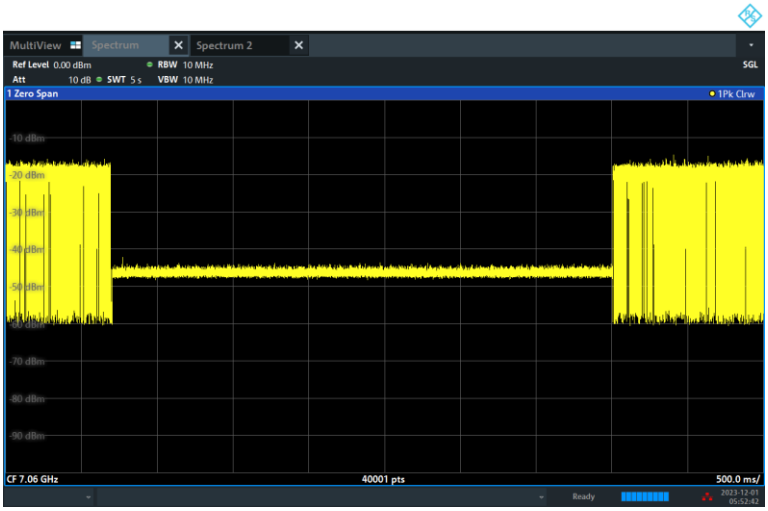
UNII 7:

802.11ax HE20	
6695 MHz $f_{c1} = f_{c2}$	

802.11ax HE160	
6590 MHz Lower Edge	
6665 MHz $f_{c1} = f_{c2}$	
6740 MHz Upper Edge	

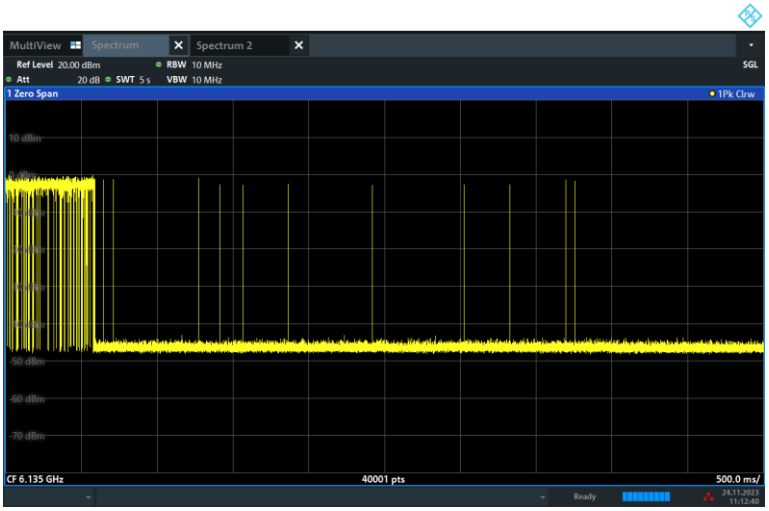
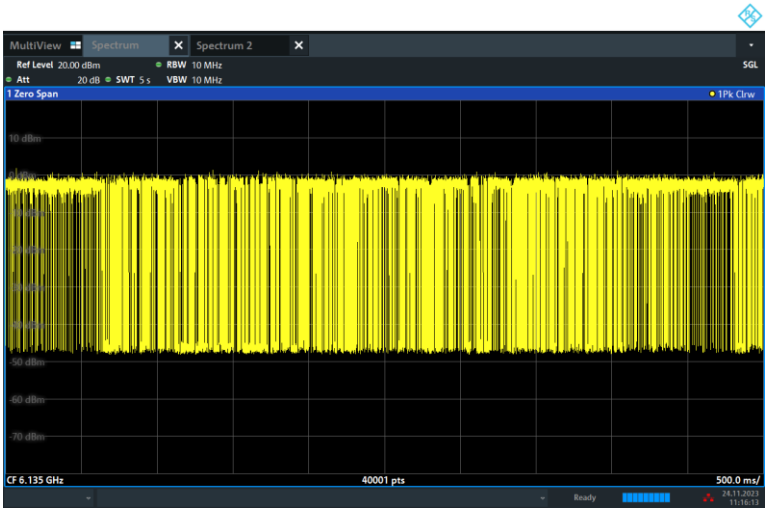
UNII 8:

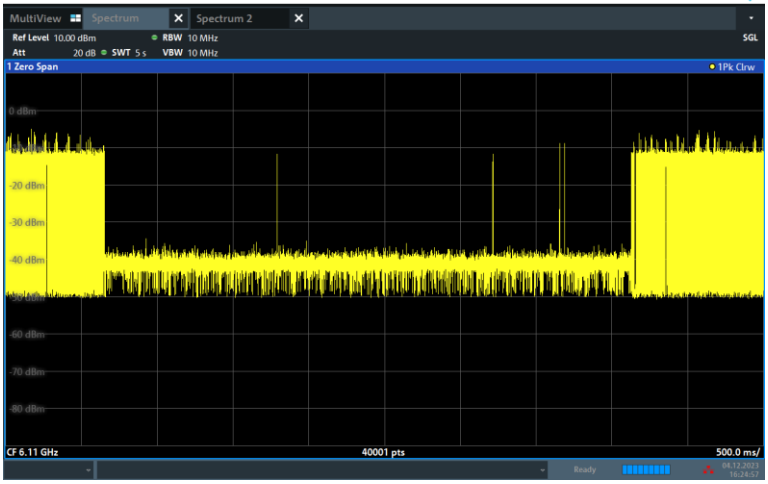
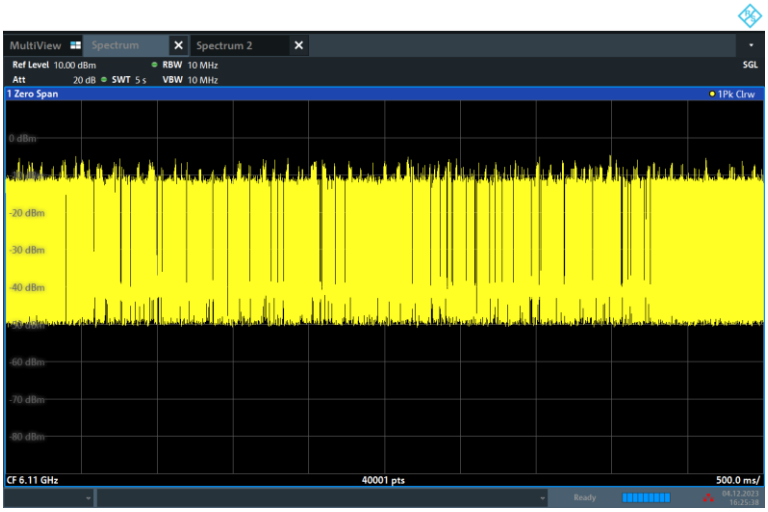
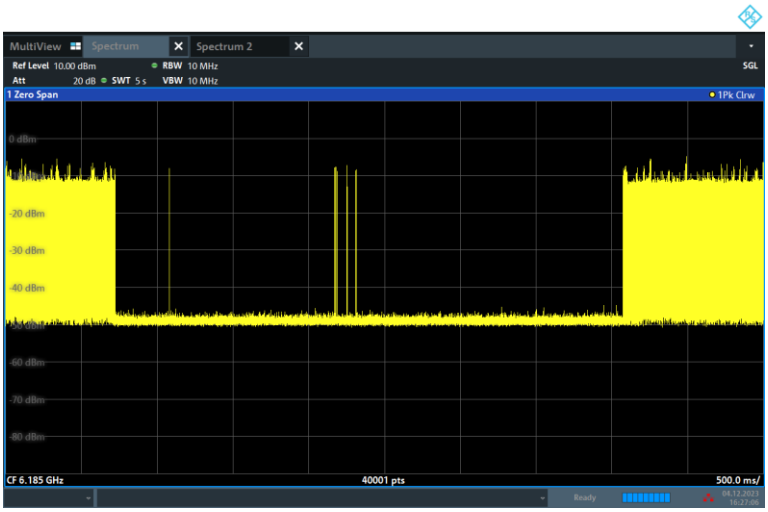
802.11ax HE20	
7015 MHz $f_{c1} = f_{c2}$	

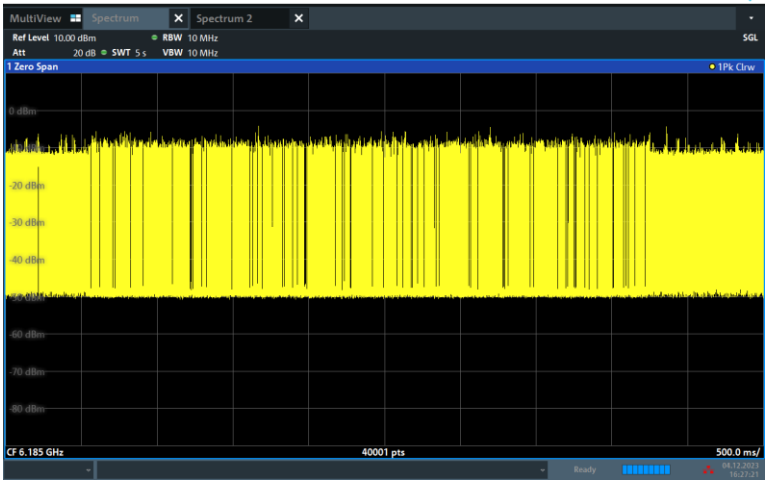
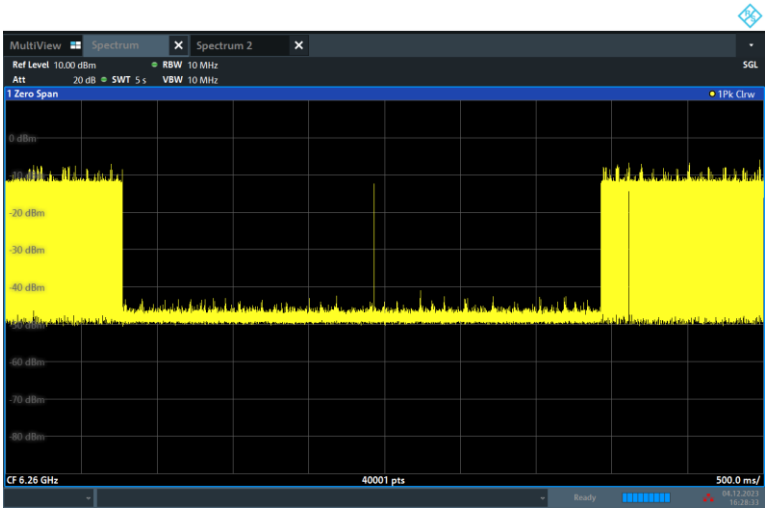
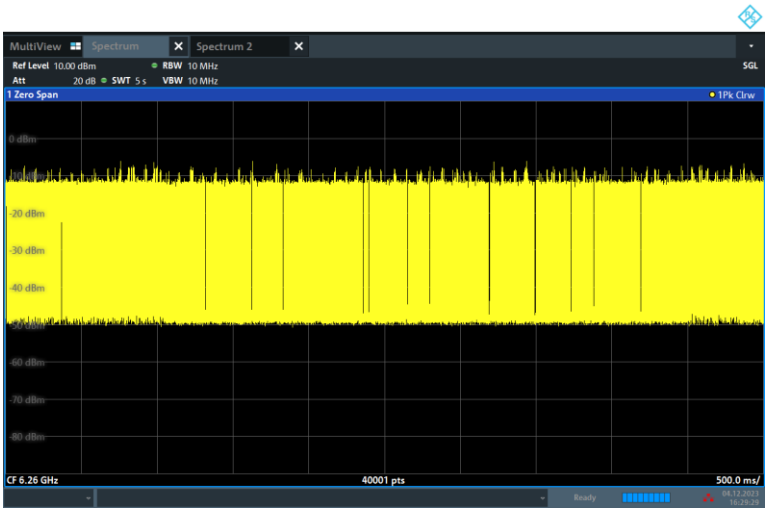
802.11ax HE160	
6910 MHz Lower Edge	
6985 MHz $f_{c1} = f_{c2}$	
7060 MHz Upper Edge	

Contention Based Protocol Threshold Level Verify

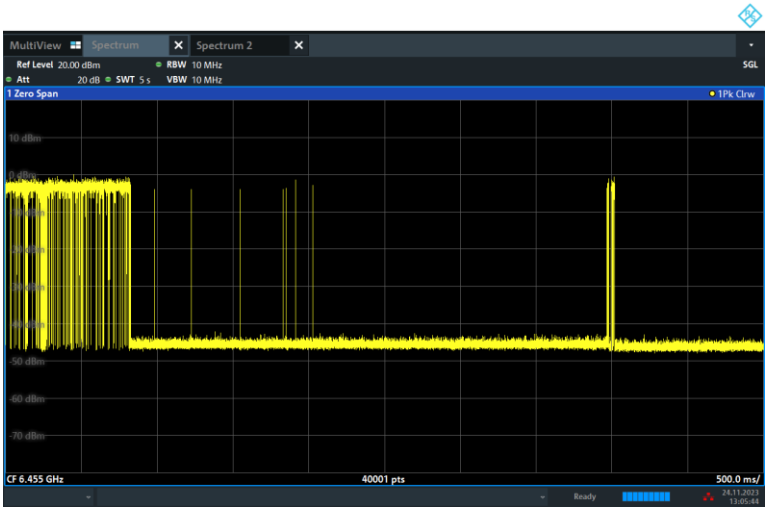
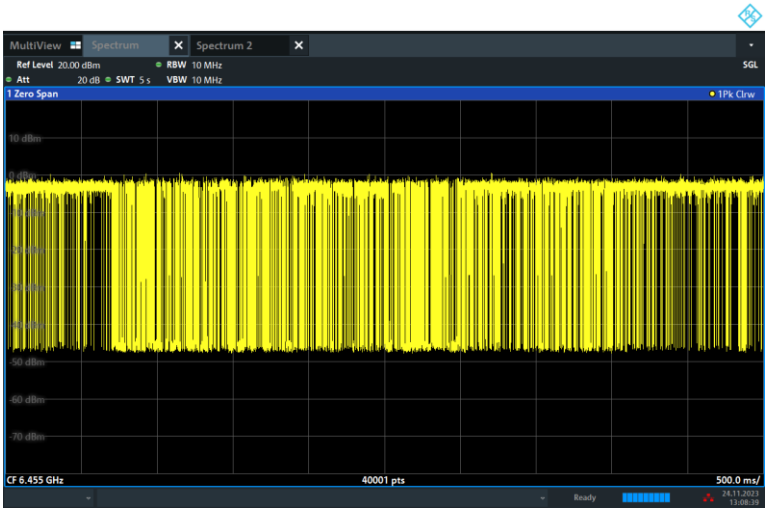
UNII 5:

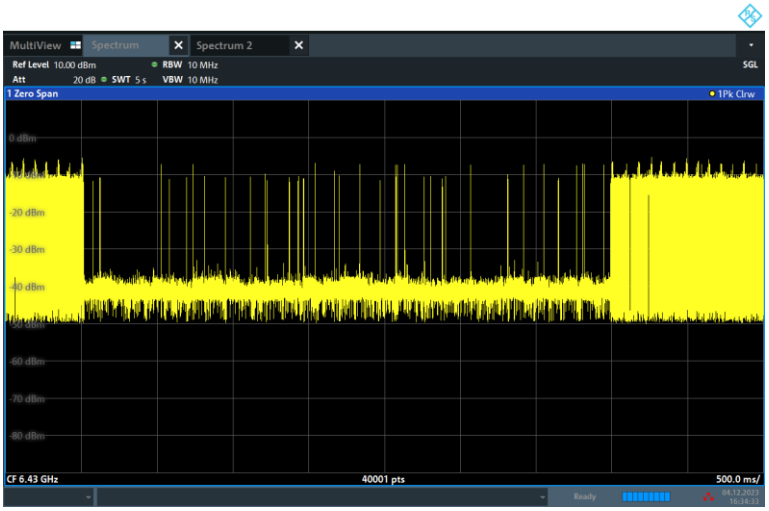
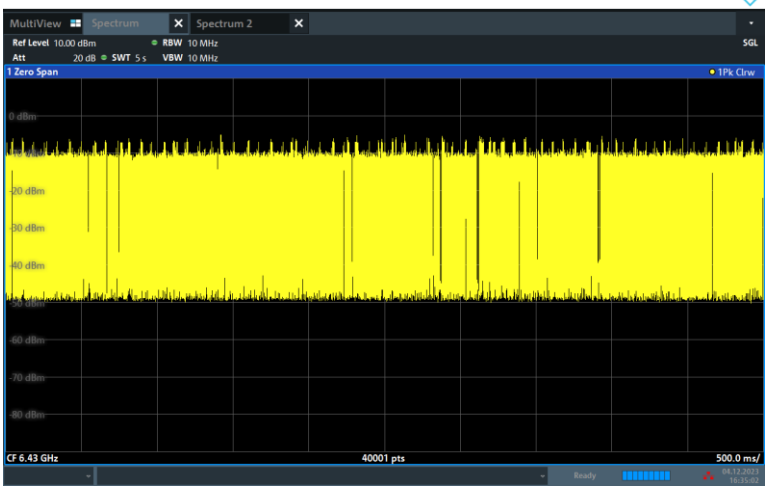
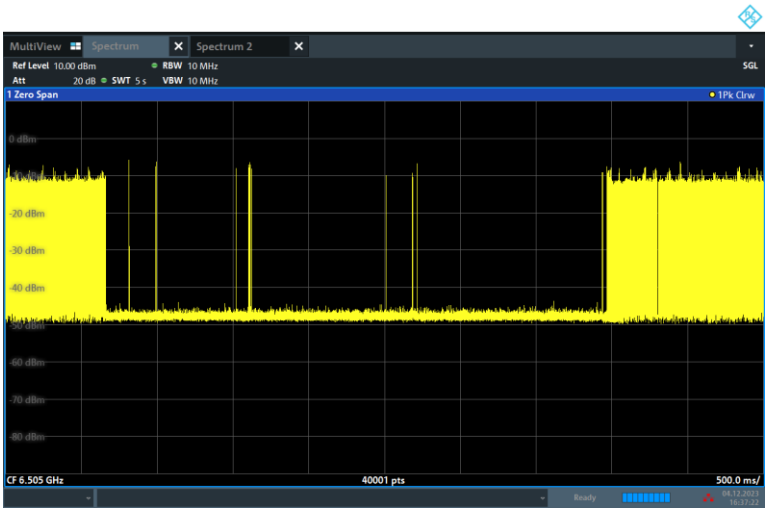
802.11ax HE20	
6135 MHz	
6135 MHz	

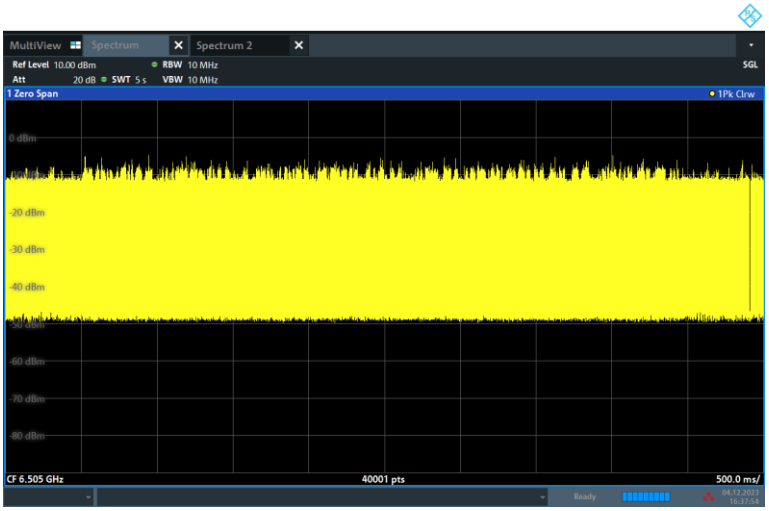
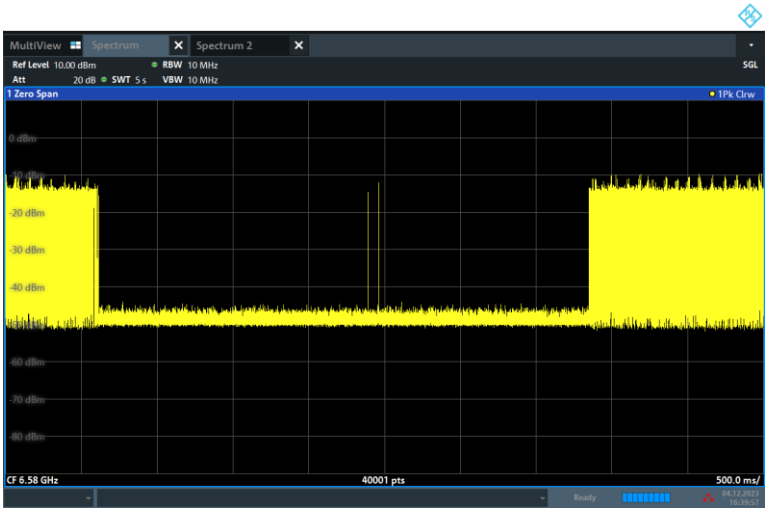
802.11ax HE160	
6110 MHz	
6110 MHz	
6185 MHz	

802.11ax HE160	
6185 MHz	
6260 MHz	
6260 MHz	

UNII 6:

802.11ax HE20	
6455 MHz	
6455 MHz	

802.11ax HE160	
6430 MHz	
6430 MHz	
6505 MHz	

802.11ax HE160	
6505 MHz	
6580 MHz	
6580 MHz