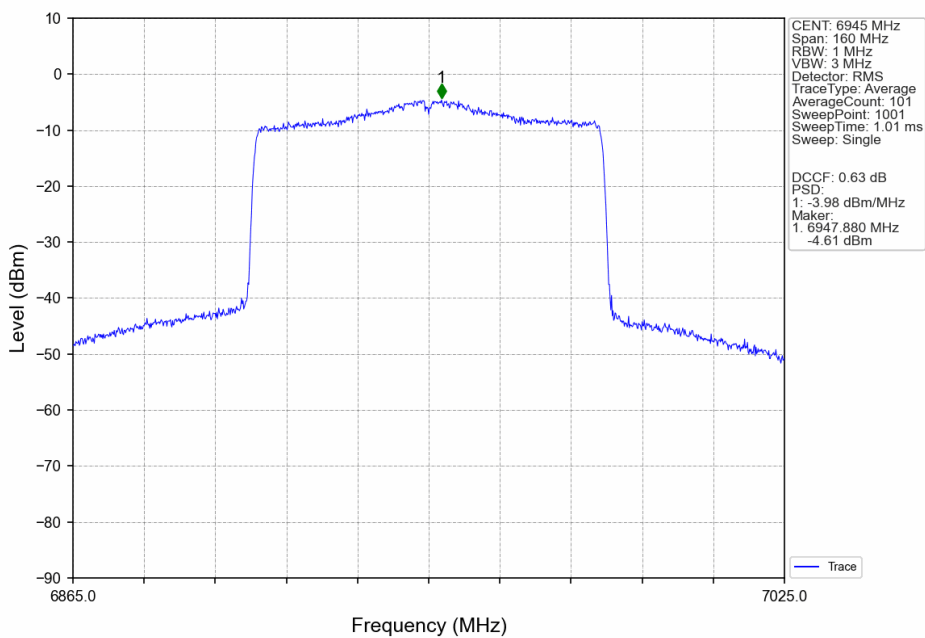




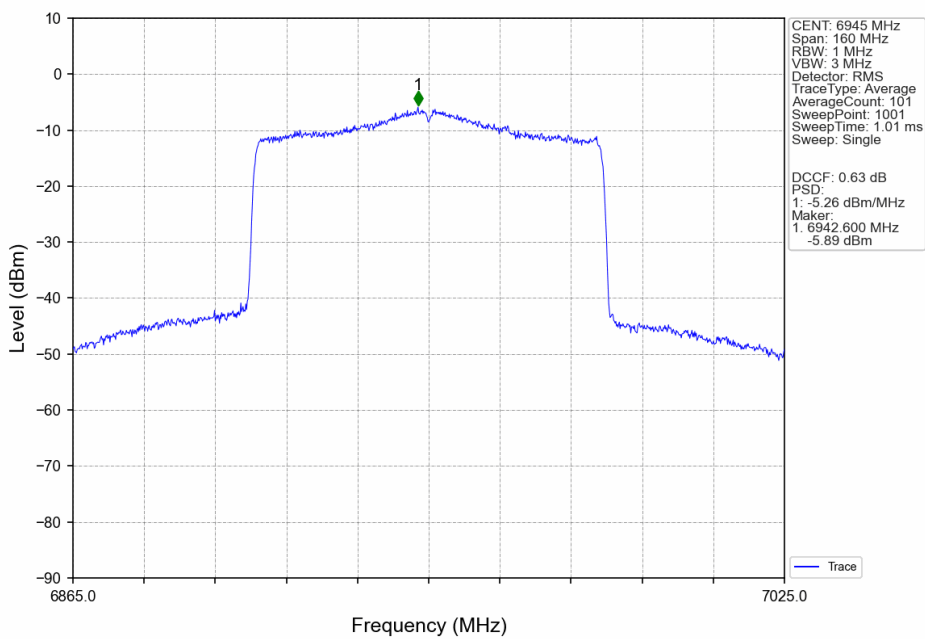
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802.11ax(HEW80)_LCH_6945MHz_SU_/_ANT2_NTNV



802.11ax(HEW80)_LCH_6945MHz_SU_/_ANT3_NTNV

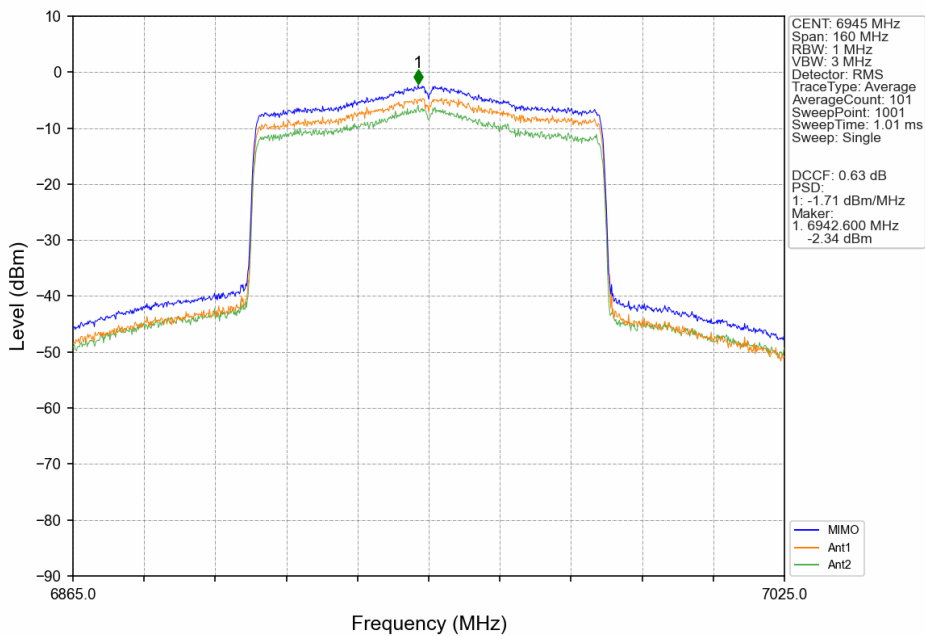




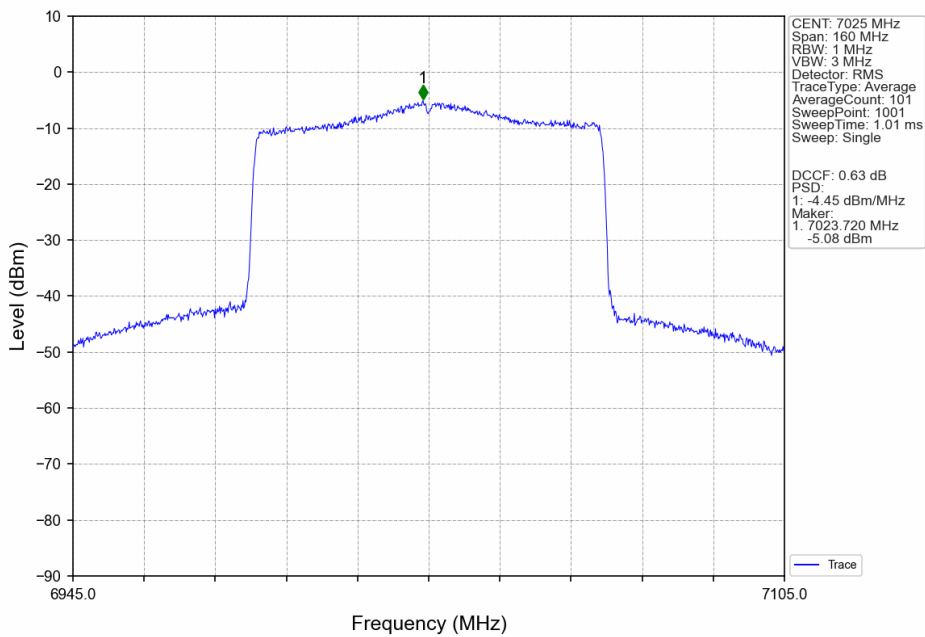
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802.11ax(HEW80)_LCH_6945MHz_SU / _MIMO_NTNV



802.11ax(HEW80)_HCH_7025MHz_SU / _ANT2_NTNV

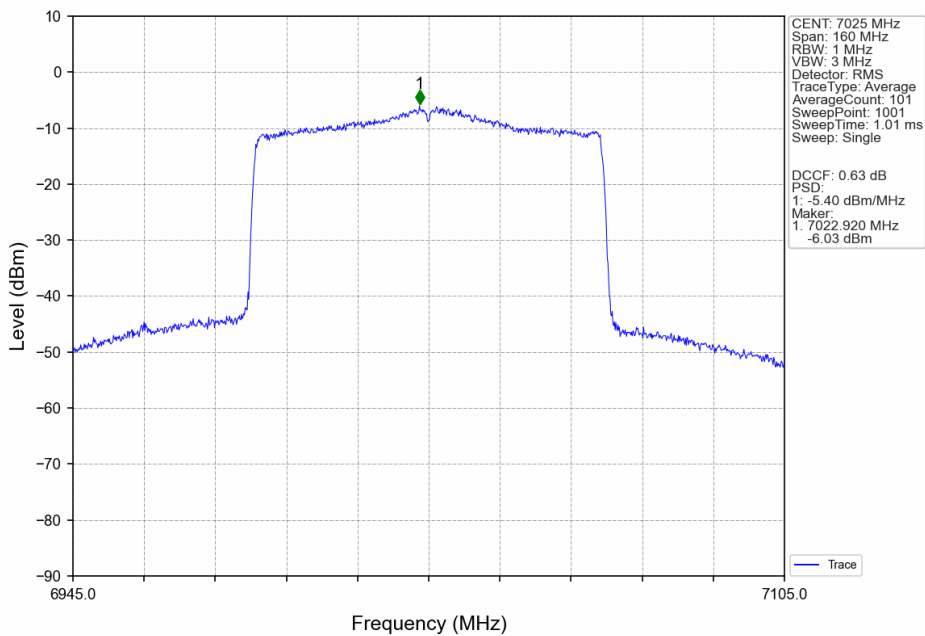




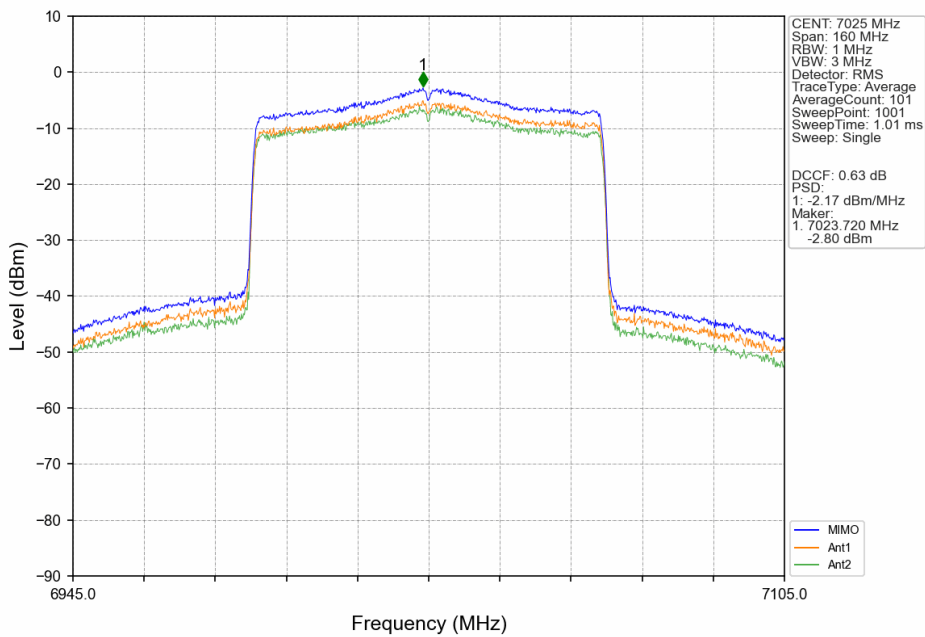
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802.11ax(HEW80)_HCH_7025MHz_SU_/_ANT3_NTNV



802.11ax(HEW80)_HCH_7025MHz_SU_/_MIMO_NTNV

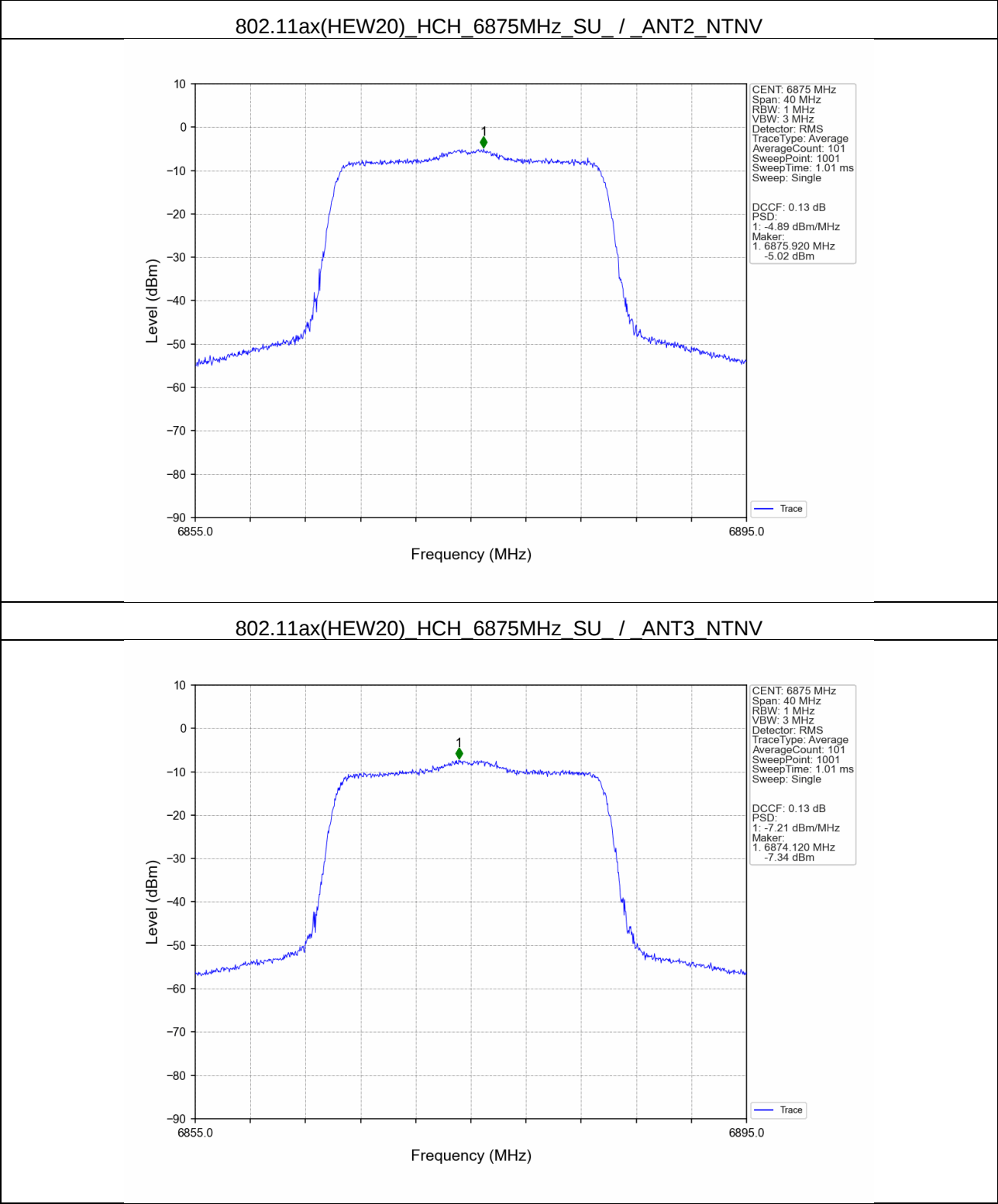




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2.2.9 PSD

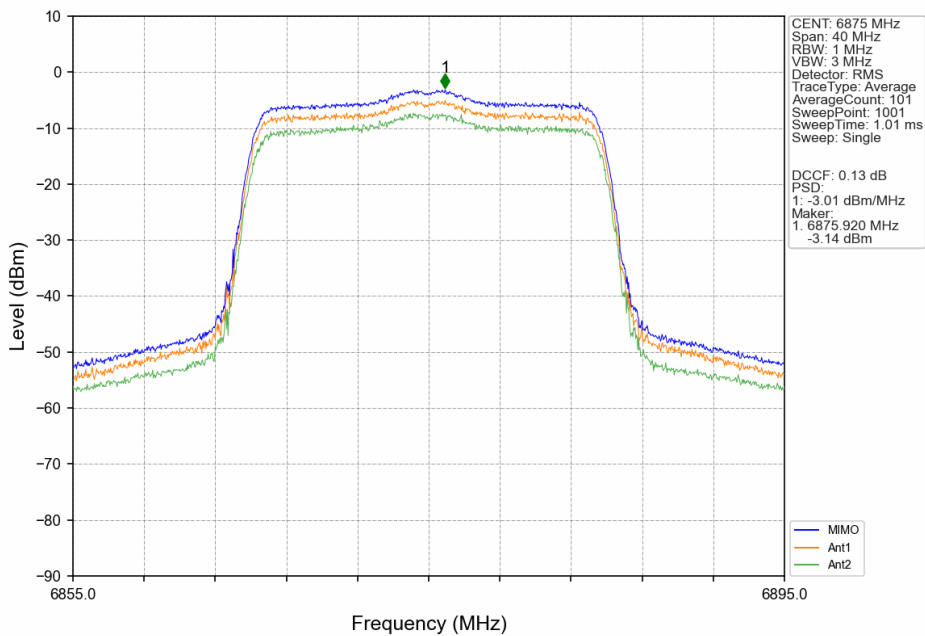




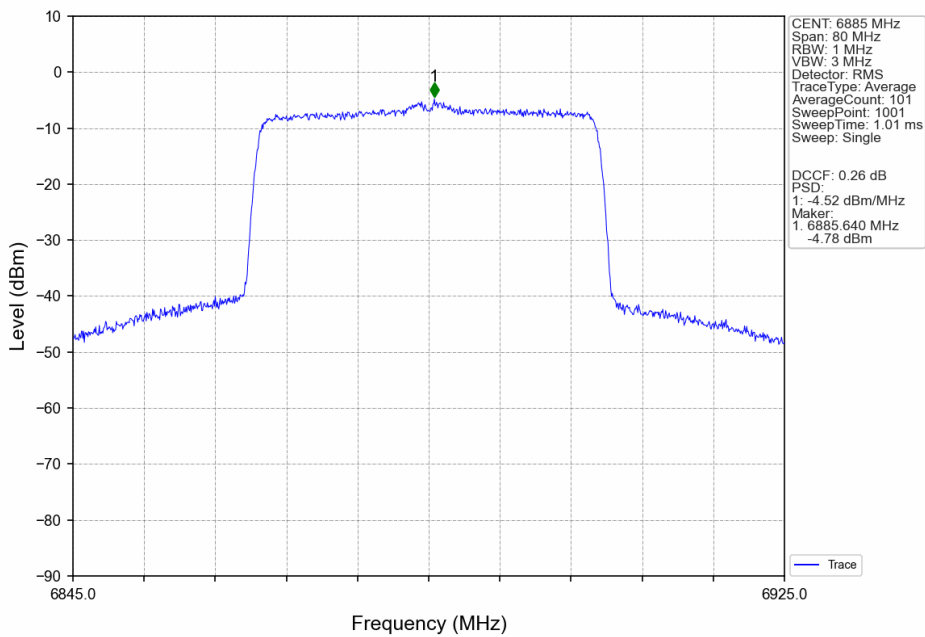
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802.11ax(HEW20)_HCH_6875MHz_SU_/_MIMO_NTNV



802.11ax(HEW40)_HCH_6885MHz_SU_/_ANT2_NTNV

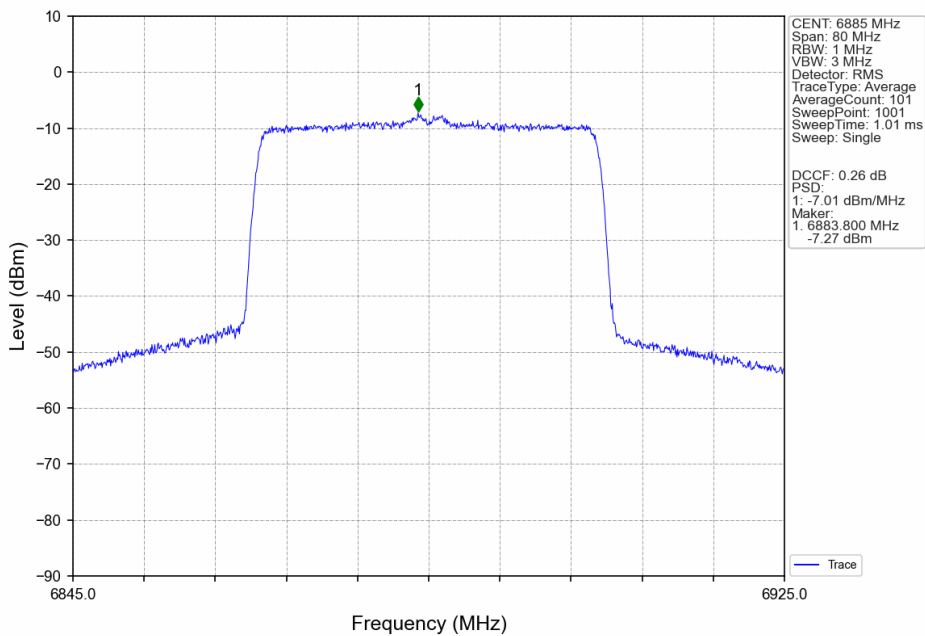




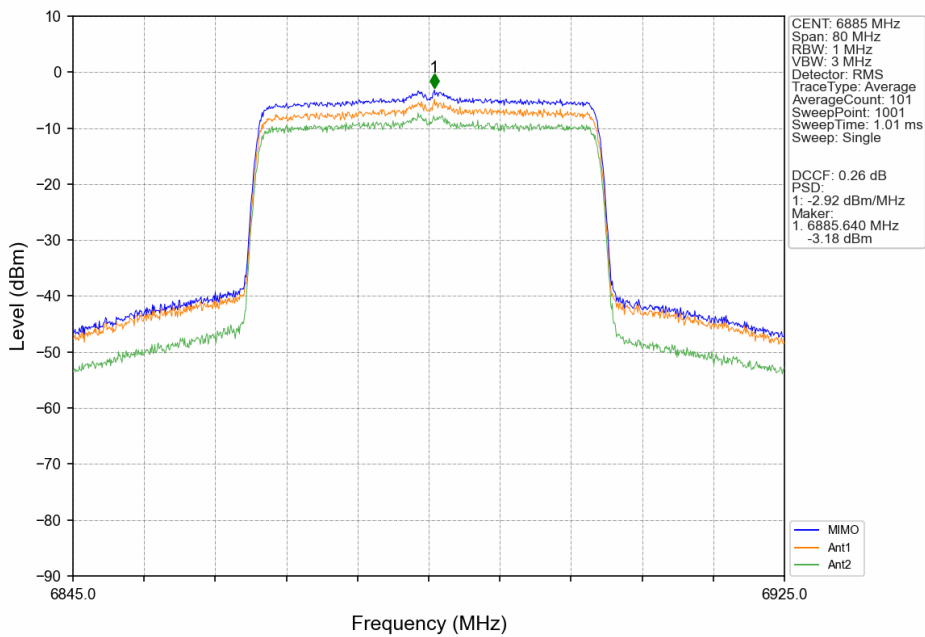
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802.11ax(HEW40)_HCH_6885MHz_SU_/_ANT3_NTNV



802.11ax(HEW40)_HCH_6885MHz_SU_/_MIMO_NTNV

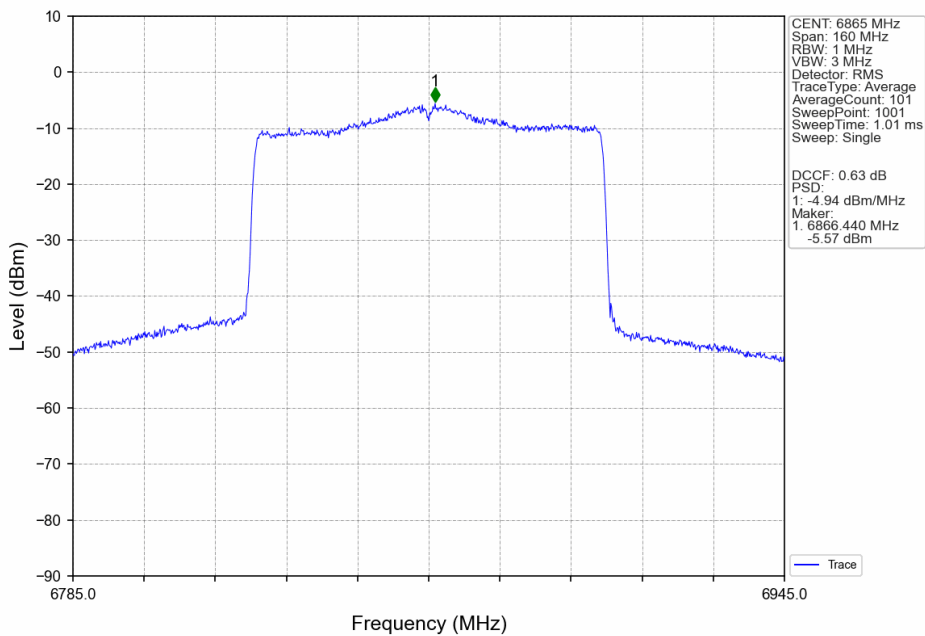




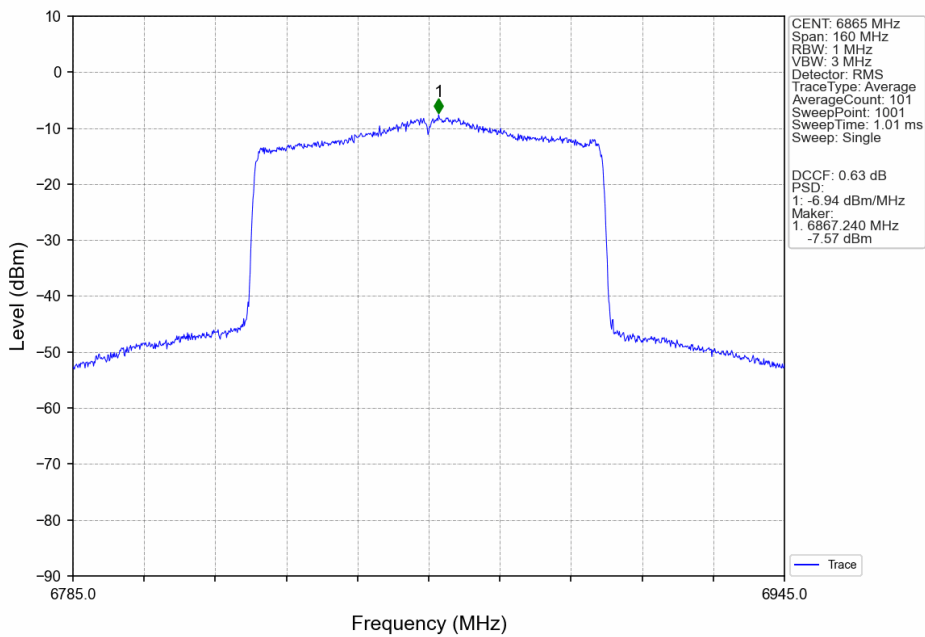
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802.11ax(HEW80)_HCH_6865MHz_SU_/_ANT2_NTNV



802.11ax(HEW80)_HCH_6865MHz_SU_/_ANT3_NTNV

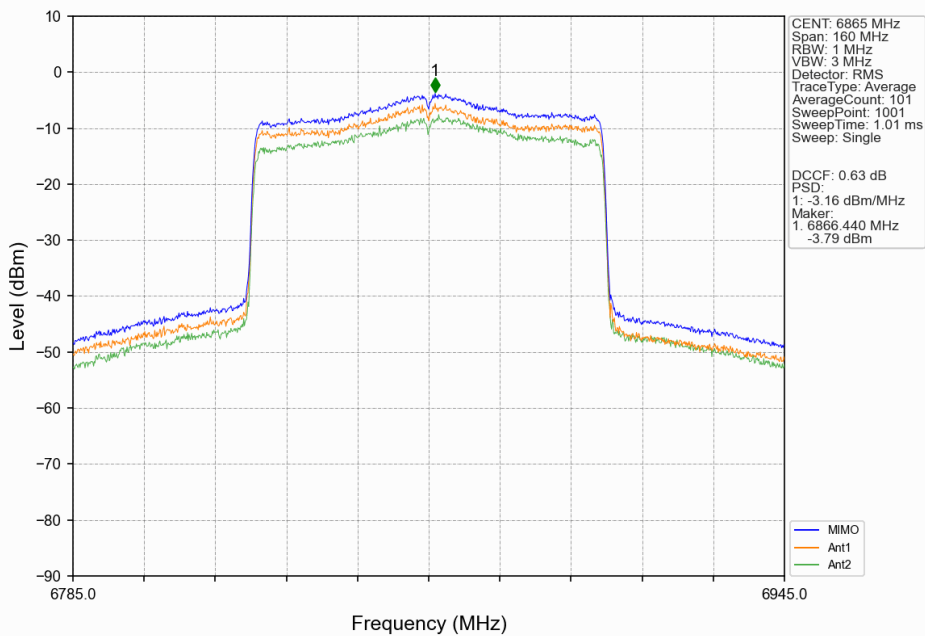




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802.11ax(HEW80)_HCH_6865MHz_SU_/_MIMO_NTNV

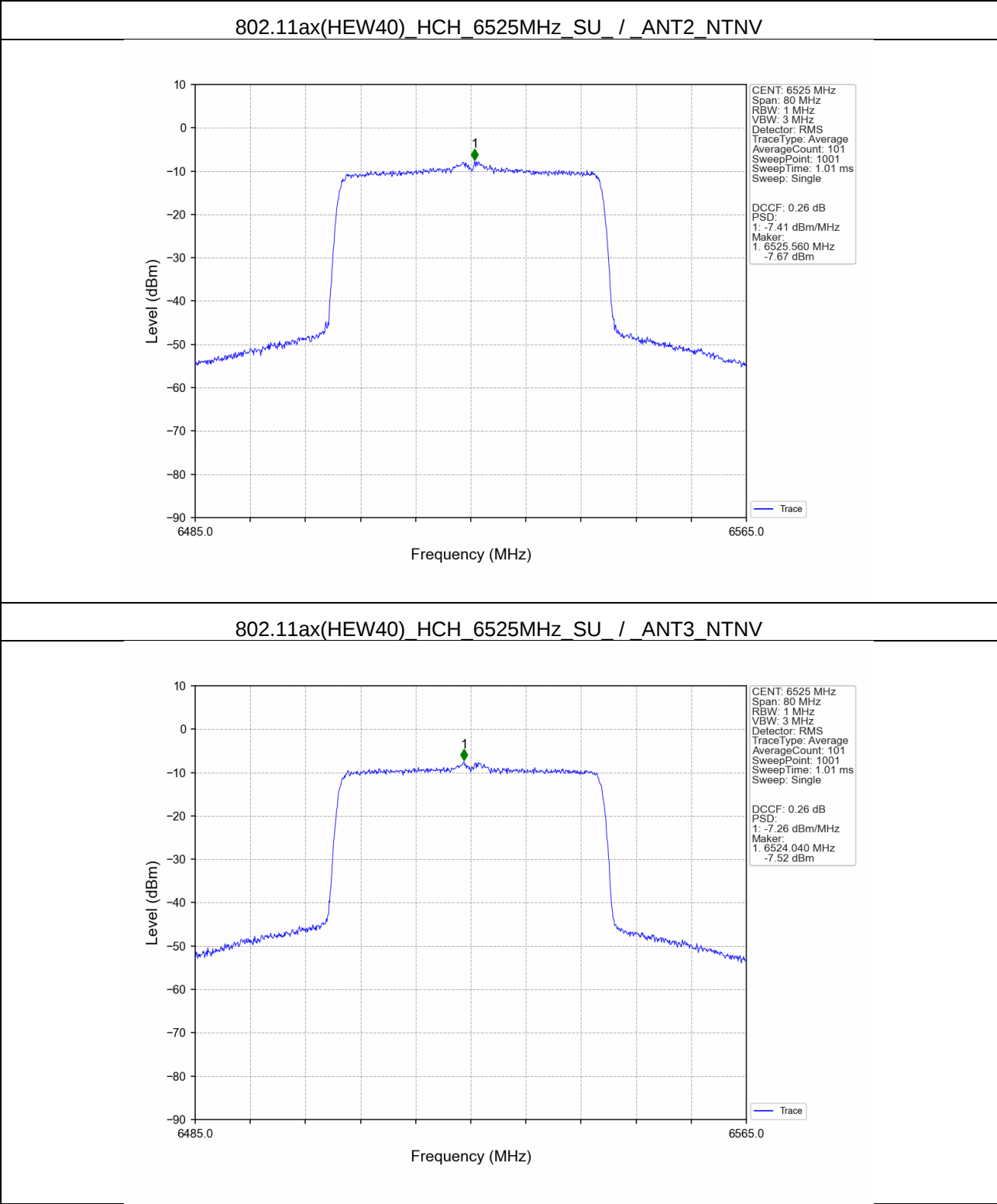




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2.2.11 PSD

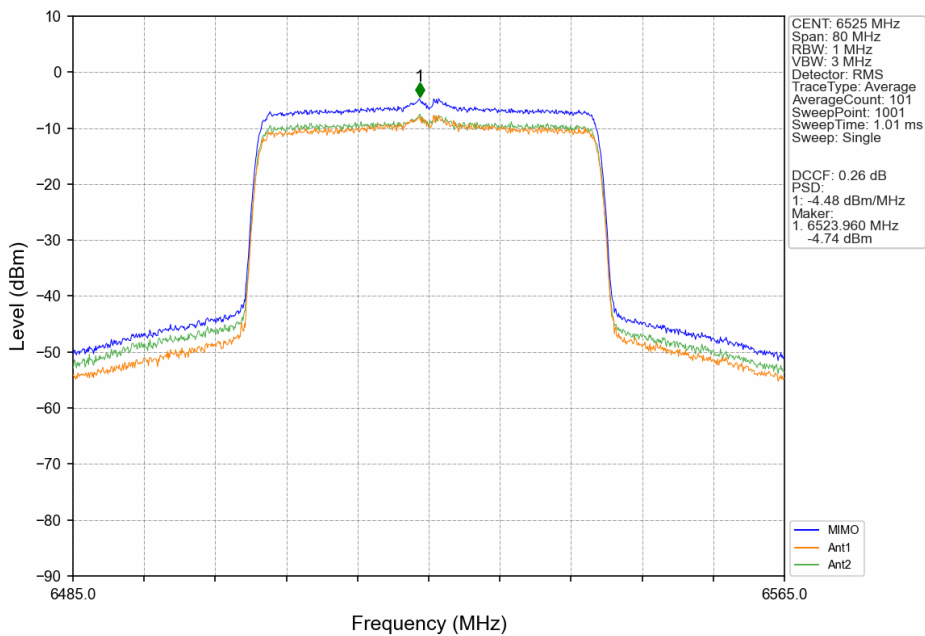




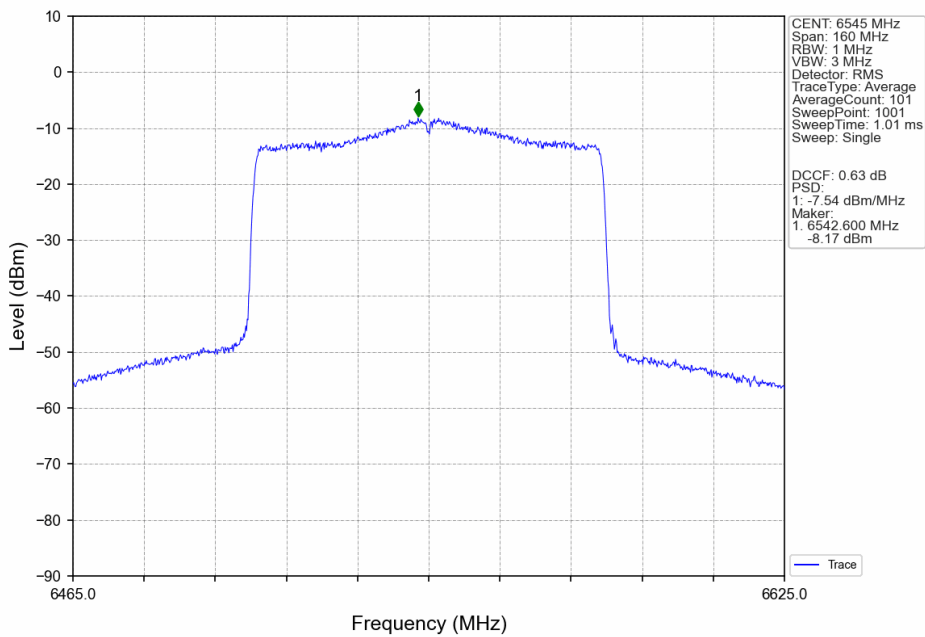
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802.11ax(HEW40)_HCH_6525MHz_SU_/_MIMO_NTNV



802.11ax(HEW80)_HCH_6545MHz_SU_/_ANT2_NTNV

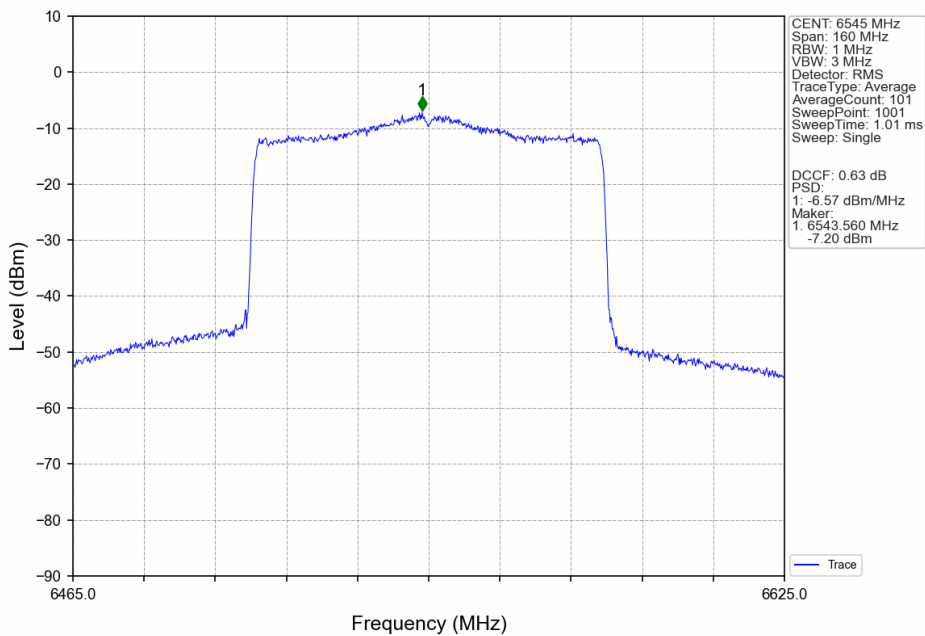




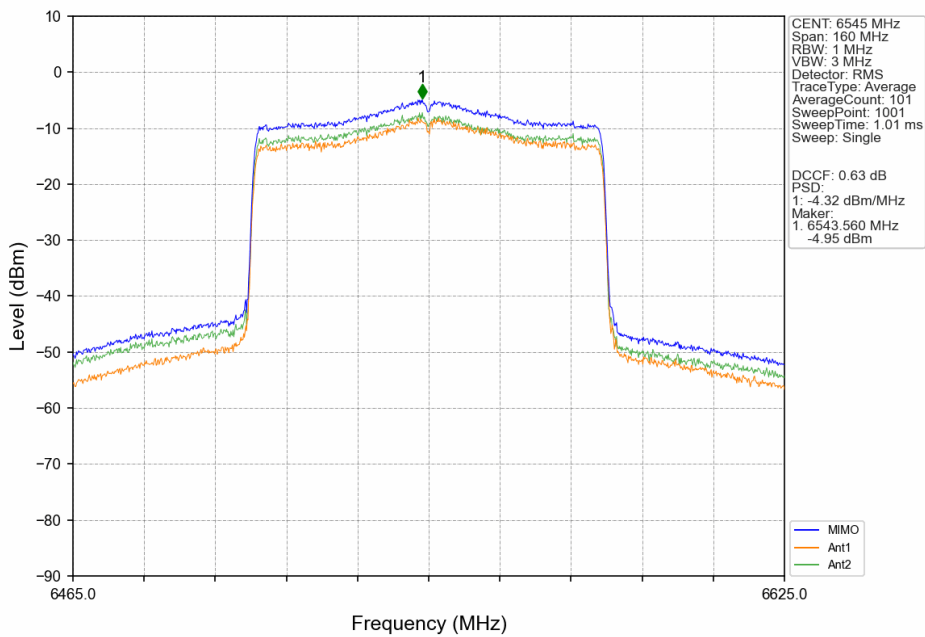
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802.11ax(HEW80)_HCH_6545MHz_SU_/_ANT3_NTNV



802.11ax(HEW80)_HCH_6545MHz_SU_/_MIMO_NTNV





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3. Contention Based Protocol

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 5	6175	20	6175	-77.22	100	-62	-70.48	-6.74	8.48
					Result: Stop Transmission				
				-77.96	<90	-62	-71.22	-6.74	9.22
					Result: Minimal Operation				
				-78.6	0	-62	-71.86	-6.74	9.86
					Result: Normal Operation				
	6145	80	6110	-75.31	100	-62	-68.57	-6.74	6.57
					Result: Stop Transmission				
				-76.11	<90	-62	-69.37	-6.74	7.37
					Result: Minimal Operation				
				-76.9	0	-62	-70.16	-6.74	8.16
					Result: Normal Operation				
			6145	-76.24	100	-62	-69.5	-6.74	7.5
					Result: Stop Transmission				
				-77.02	<90	-62	-70.28	-6.74	8.28
					Result: Minimal Operation				
				-77.83	0	-62	-71.09	-6.74	9.09
					Result: Normal Operation				
			6180	-76.37	100	-62	-69.63	-6.74	7.63
					Result: Stop Transmission				
				-77.16	<90	-62	-70.42	-6.74	8.42
					Result: Minimal Operation				
				-77.91	0	-62	-71.17	-6.74	9.17
					Result: Normal Operation				

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 6	6475	20	6475	-76.48	100	-62	-66.46	-10.02	4.46
					Result: Stop Transmission				
				-77.32	<90	-62	-67.3	-10.02	5.3
					Result: Minimal Operation				
				-78.06	0	-62	-68.04	-10.02	6.04
					Result: Normal Operation				
	6465	80	6430	-77.46	100	-62	-67.44	-10.02	5.44
					Result: Stop Transmission				
				-78.19	<90	-62	-68.17	-10.02	6.17
					Result: Minimal Operation				
				-79.56	0	-62	-69.54	-10.02	7.54
					Result: Normal Operation				
			6465	-76.16	100	-62	-66.14	-10.02	4.14
					Result: Stop Transmission				
				-77.79	<90	-62	-67.77	-10.02	5.77
					Result: Minimal Operation				
				-79.23	0	-62	-69.21	-10.02	7.21
					Result: Normal Operation				
			6500	-76.2	100	-62	-66.18	-10.02	4.18
					Result: Stop Transmission				
				-77.84	<90	-62	-67.82	-10.02	5.82
					Result: Minimal Operation				
				-79.32	0	-62	-69.3	-10.02	7.3
					Result: Normal Operation				

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 7	6695	20	6695	-76.9	100	-62	-69.11	-7.79	7.11
					Result: Stop Transmission				
				-77.66	<90	-62	-69.87	-7.79	7.87
					Result: Minimal Operation				
				-78.36	0	-62	-70.57	-7.79	8.57
					Result: Normal Operation				
	6705	80	6670	-73.54	100	-62	-65.75	-7.79	3.75
					Result: Stop Transmission				
				-75.28	<90	-62	-67.49	-7.79	5.49
					Result: Minimal Operation				
				-77.74	0	-62	-69.95	-7.79	7.95
					Result: Normal Operation				
			6705	-75.28	100	-62	-67.49	-7.79	5.49
					Result: Stop Transmission				
				-76.09	<90	-62	-68.3	-7.79	6.3
					Result: Minimal Operation				
				-77.68	0	-62	-69.89	-7.79	7.89
					Result: Normal Operation				
			6740	-75.53	100	-62	-67.74	-7.79	5.74
					Result: Stop Transmission				
				-76.32	<90	-62	-68.53	-7.79	6.53
					Result: Minimal Operation				
				-77.9	0	-62	-70.11	-7.79	8.11
					Result: Normal Operation				

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 8	6995	20	6995	-76.84	100	-62	-69.05	-7.79	7.05
					Result: Stop Transmission				
				-77.6	<90	-62	-69.81	-7.79	7.81
					Result: Minimal Operation				
				-78.33	0	-62	-70.54	-7.79	8.54
					Result: Normal Operation				
	7025	80	6990	-74.4	100	-62	-66.61	-7.79	4.61
					Result: Stop Transmission				
				-75.23	<90	-62	-67.44	-7.79	5.44
					Result: Minimal Operation				
				-77.69	0	-62	-69.9	-7.79	7.9
					Result: Normal Operation				
			7025	-73.87	100	-62	-66.08	-7.79	4.08
					Result: Stop Transmission				
				-74.76	<90	-62	-66.97	-7.79	4.97
					Result: Minimal Operation				
				-76.46	0	-62	-68.67	-7.79	6.67
					Result: Normal Operation				
			7060	-74.32	100	-62	-66.53	-7.79	4.53
					Result: Stop Transmission				
				-75.33	<90	-62	-67.54	-7.79	5.54
					Result: Minimal Operation				
				-77.64	0	-62	-69.85	-7.79	7.85
					Result: Normal Operation				

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

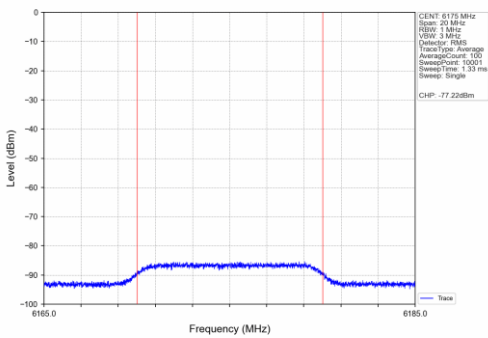
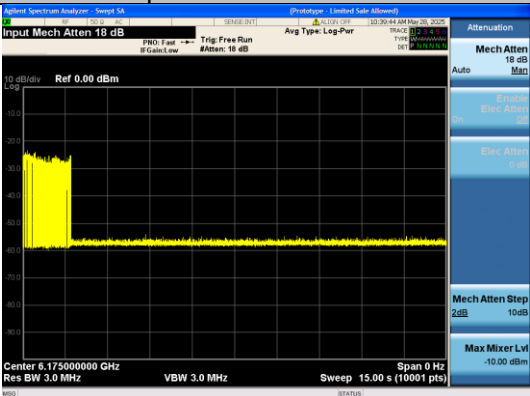
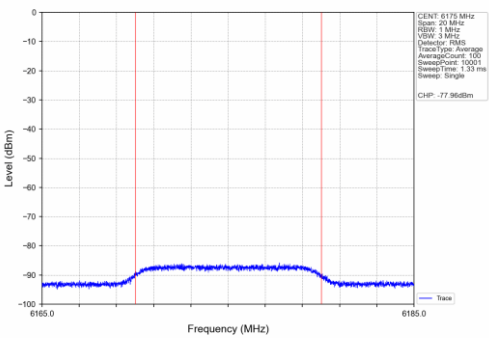
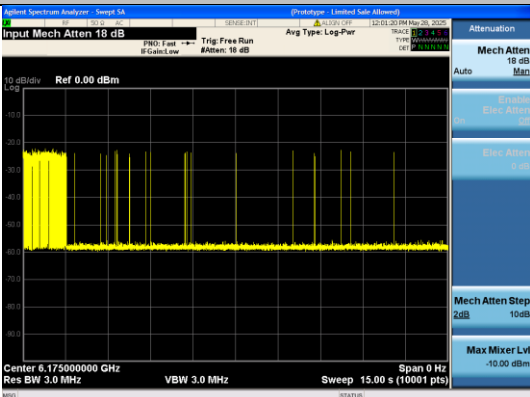
Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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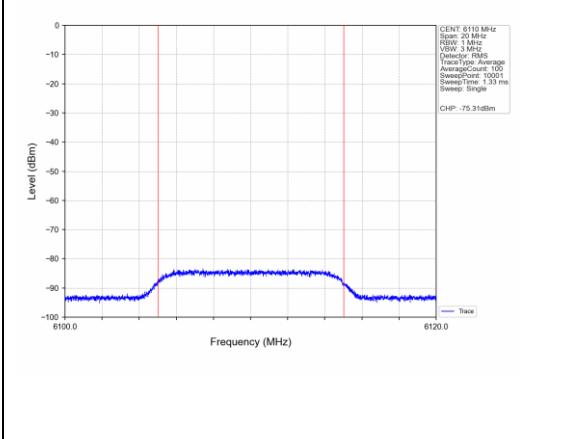
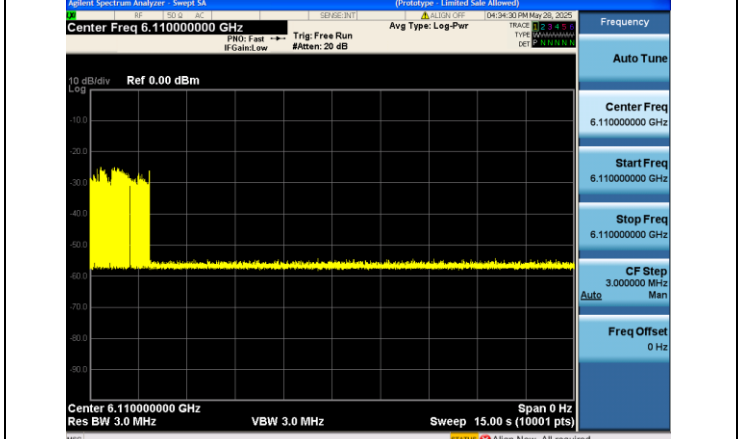
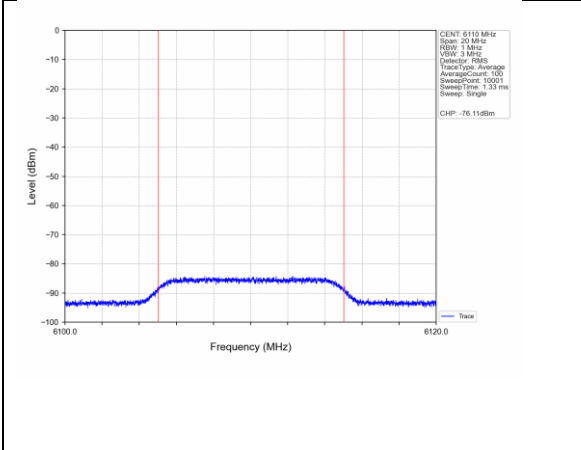
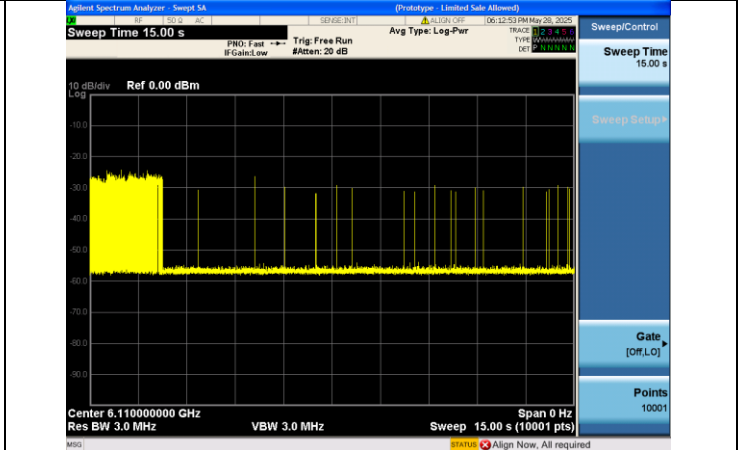
7.1.1 Test Graphs

Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE20) /6175MHz Threshold Level (TL)	802.11 ax (HE20) /6175MHz Test Result is pass due to no transmission occur.
	
802.11 ax (HE20) /6175MHz Threshold Level (TL)	802.11 ax (HE20) /6175MHz Transmission when the interferer is Minimal Operation
	



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE80) /6110MHz Threshold Level (TL)	802.11 ax (HE80) /6110MHz Test Result is pass due to no transmission occur.
	
802.11 ax (HE80) /6110MHz Threshold Level (TL)	802.11 ax (HE80) /6110MHz Transmission when the interferer is Minimal Operation
	



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Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 ax (HE80) /6145MHz Threshold Level (TL)	802.11 ax (HE80) /6145MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6145MHz Threshold Level (TL)	802.11 ax (HE80) /6145MHz Transmission when the interferer is Minimal Operation



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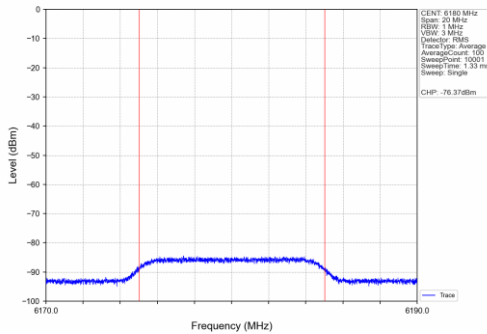
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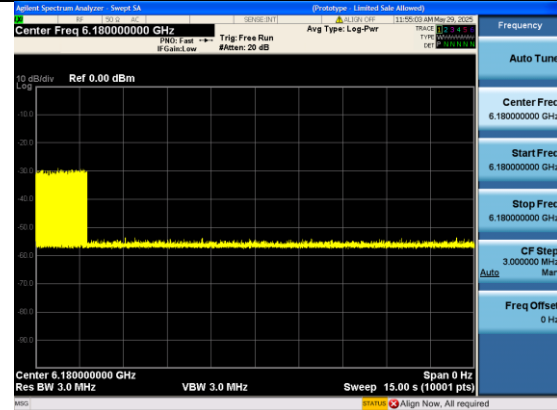
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Contention Based Protocol Result on U-NII 5 (AWGN Interference)

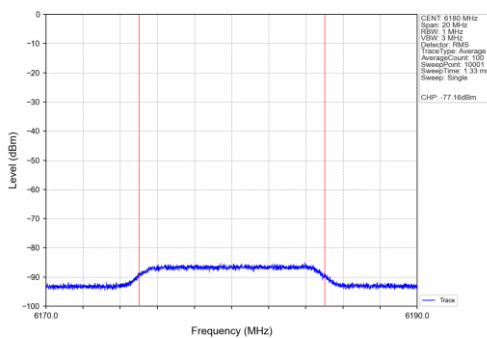
802.11 ax (HE80) /6180MHz
Threshold Level (TL)



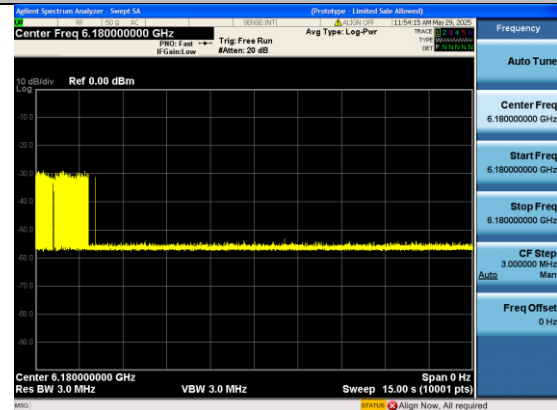
802.11 ax (HE80) /6180MHz
Test Result is pass due to no transmission occur.



802.11 ax (HE80) /6180MHz
Threshold Level (TL)



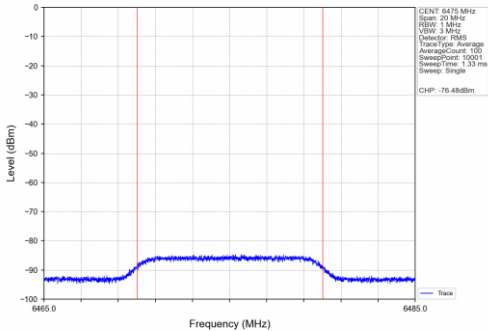
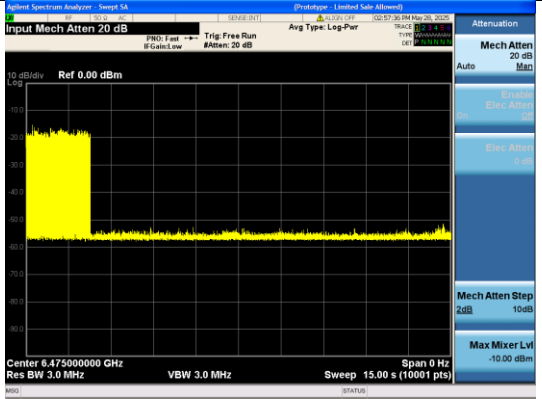
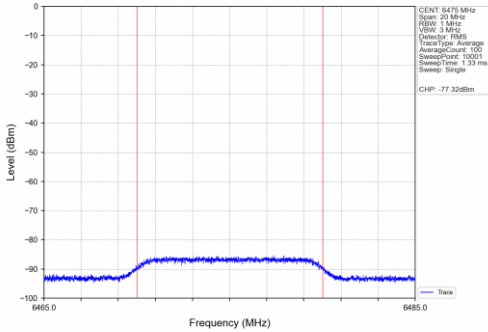
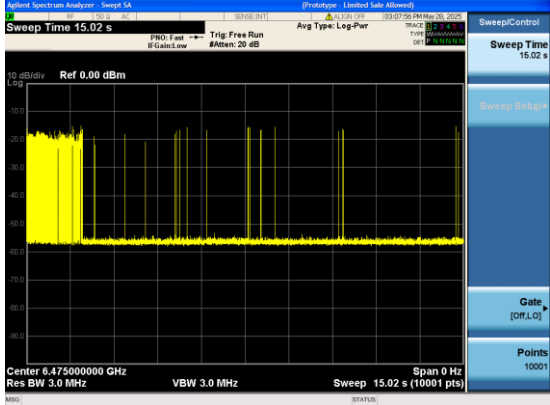
802.11 ax (HE80) /6180MHz
Transmission when the interferer is Minimal
Operation





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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE20) /6475MHz Threshold Level (TL)	802.11 ax (HE20) 6475MHz Test Result is pass due to no transmission occur.
	
802.11 ax (HE20) /6475MHz Threshold Level (TL)	802.11 ax (HE20) /6475MHz Transmission when the interferer is Minimal Operation
	



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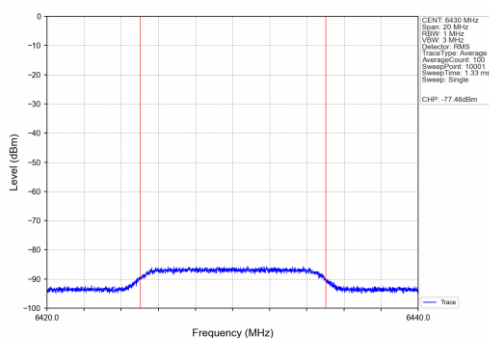
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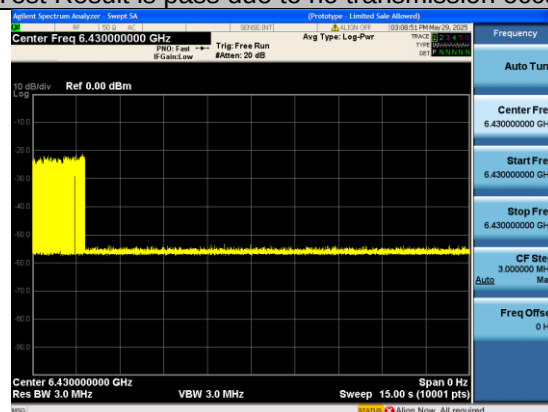
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Contention Based Protocol Result on U-NII 6 (AWGN Interference)

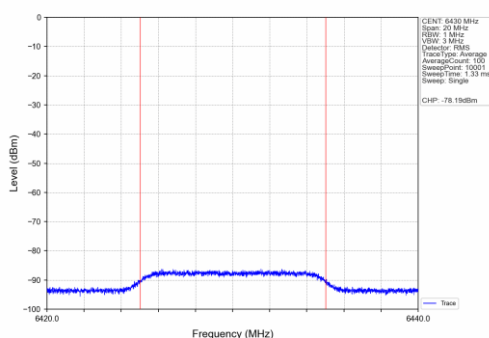
802.11 ax (HE80) /6430MHz
Threshold Level (TL)



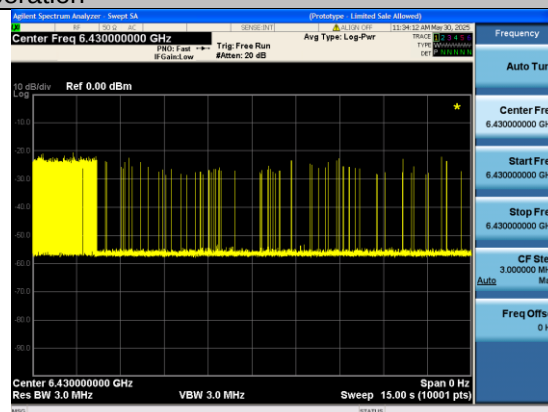
802.11 ax (HE80) /6430MHz
Test Result is pass due to no transmission occur.



802.11 ax (HE80) /6430MHz
Threshold Level (TL)



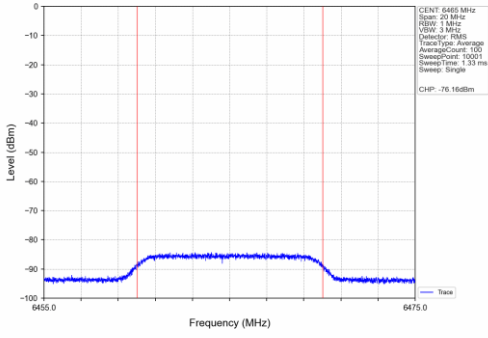
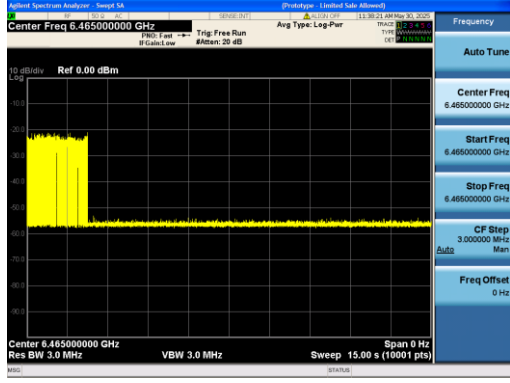
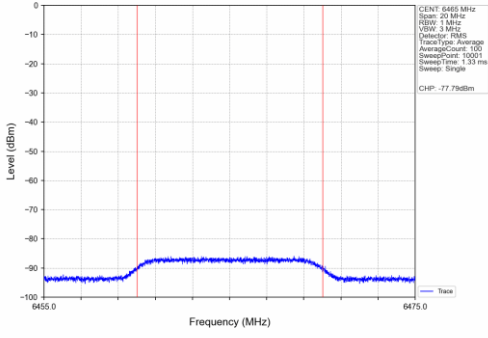
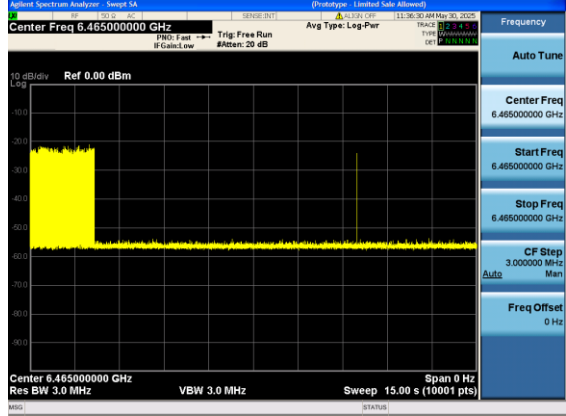
802.11 ax (HE80) /6430MHz
Transmission when the interferer is Minimal
Operation





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Contention Based Protocol Result on U-NII 6 (AWGN Interference)	
802.11 ax (HE80) /6465MHz Threshold Level (TL)	802.11 ax (HE80) /6465MHz Test Result is pass due to no transmission occur.
	
802.11 ax (HE80) /6465MHz Threshold Level (TL)	802.11 ax (HE80) /6465MHz Transmission when the interferer is Minimal Operation
	



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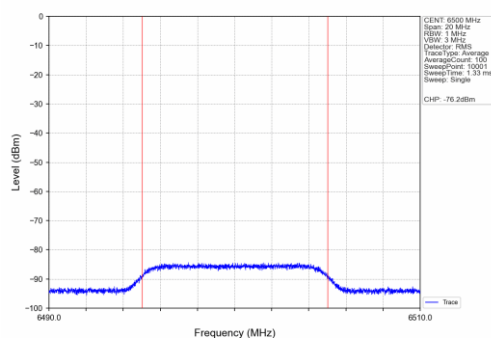
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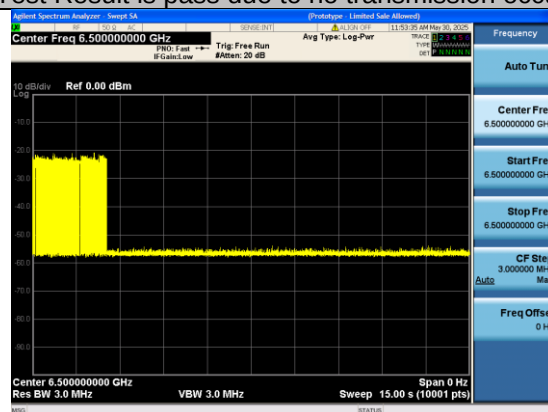
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Contention Based Protocol Result on U-NII 6 (AWGN Interference)

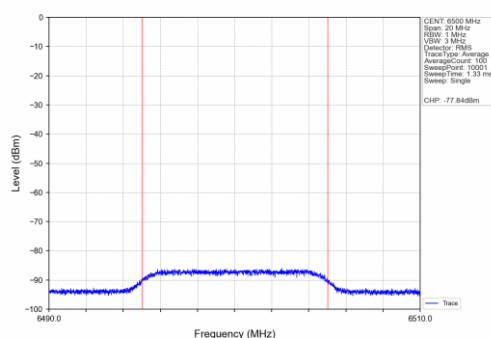
802.11 ax (HE80) /6500MHz
Threshold Level (TL)



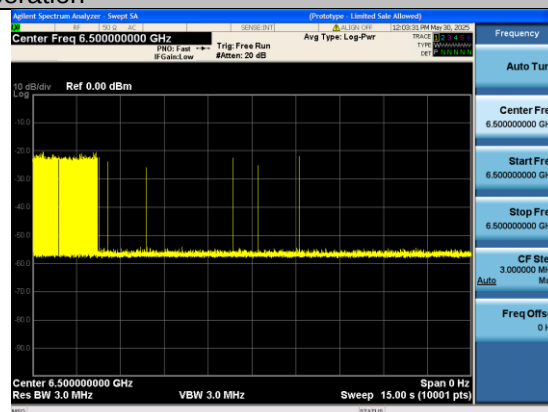
802.11 ax (HE80) /6500MHz
Test Result is pass due to no transmission occur.



802.11 ax (HE80) /6500MHz
Threshold Level (TL)



802.11 ax (HE80) /6500MHz
Transmission when the interferer is Minimal
Operation





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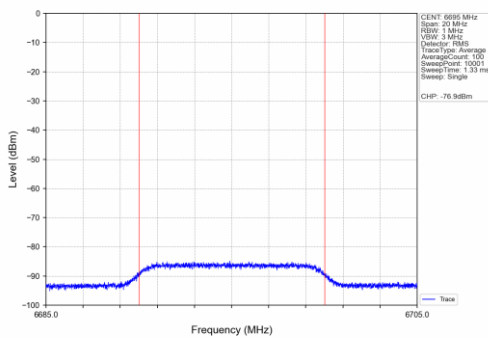
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Contention Based Protocol Result on U-NII 7 (AWGN Interference)

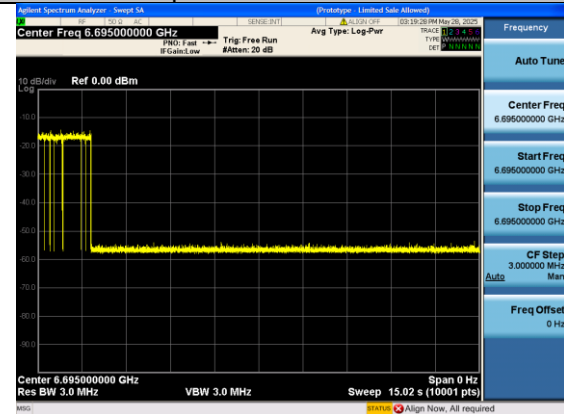
802.11 ax (HE20) /6695MHz

Threshold Level (TL)



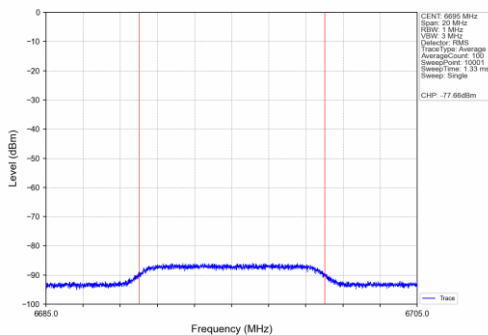
802.11 ax (HE20) /6695MHz

Test Result is pass due to no transmission occur.



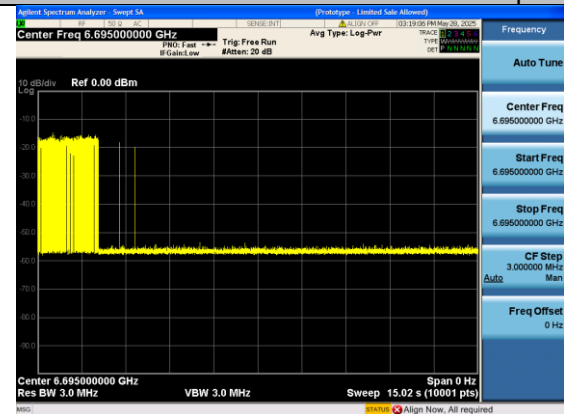
802.11 ax (HE20) /6695MHz

Threshold Level (TL)



802.11 ax (HE20) /6695MHz

Transmission when the interferer is Minimal Operation





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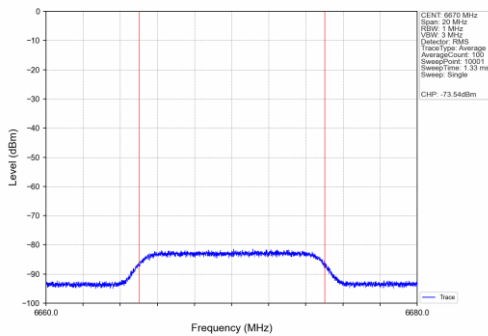
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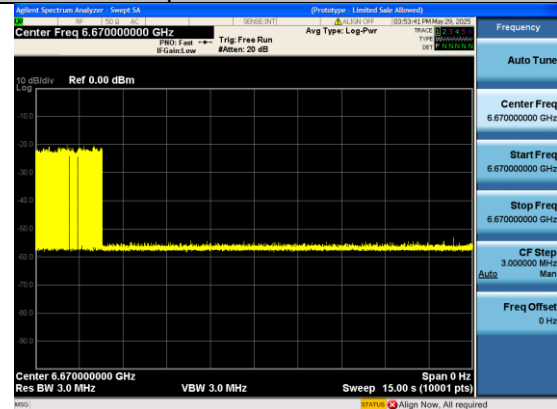
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Contention Based Protocol Result on U-NII 7 (AWGN Interference)

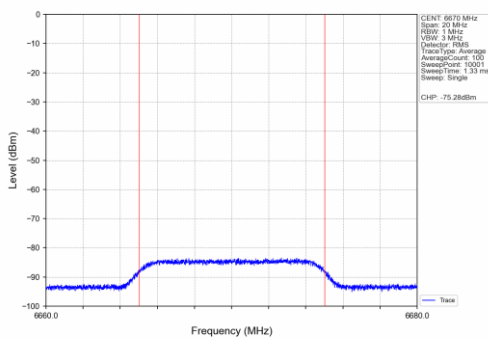
802.11 ax (HE80) /6670MHz
Threshold Level (TL)



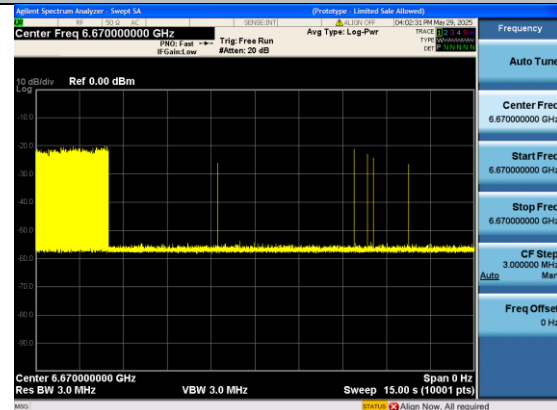
802.11 ax (HE80) /6670MHz
Test Result is pass due to no transmission occur.



802.11 ax (HE80) /6670MHz
Threshold Level (TL)



802.11 ax (HE80) /6670MHz
Transmission when the interferer is Minimal
Operation





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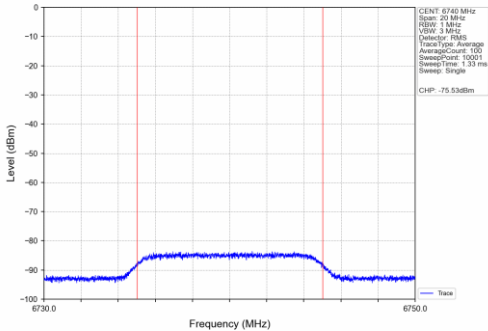
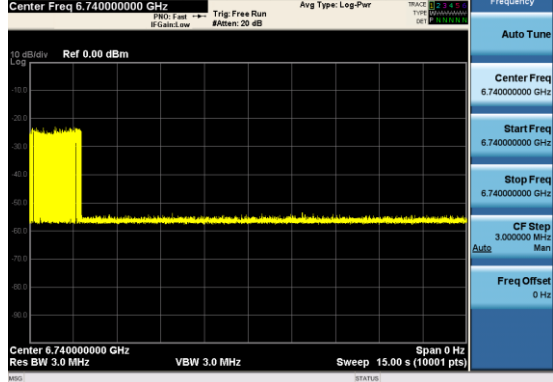
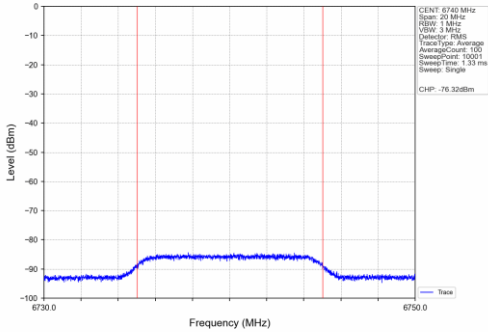
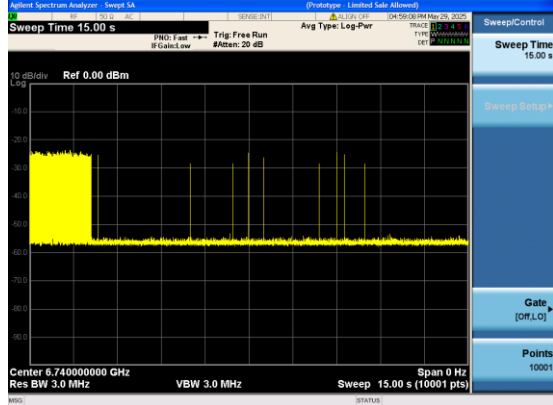
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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE80) /6705MHz Threshold Level (TL)	802.11 ax (HE80) /6705MHz Test Result is pass due to no transmission occur.
802.11 ax (HE80) /6705MHz Threshold Level (TL)	802.11 ax (HE80) /6705MHz Transmission when the interferer is Minimal Operation



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Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE80) /6740MHz Threshold Level (TL)	802.11 ax (HE80) /6740MHz Test Result is pass due to no transmission occur.
	
802.11 ax (HE80) /6740MHz Threshold Level (TL)	802.11 ax (HE80) /6740MHz Transmission when the interferer is Minimal Operation
	



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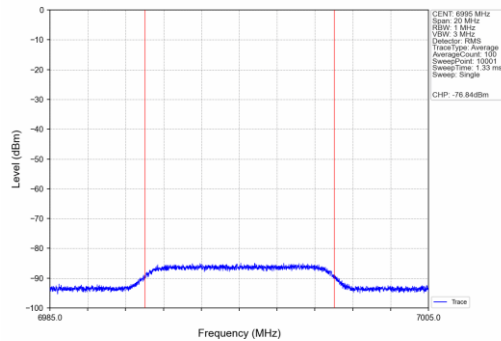
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Contention Based Protocol Result on U-NII 8 (AWGN Interference)

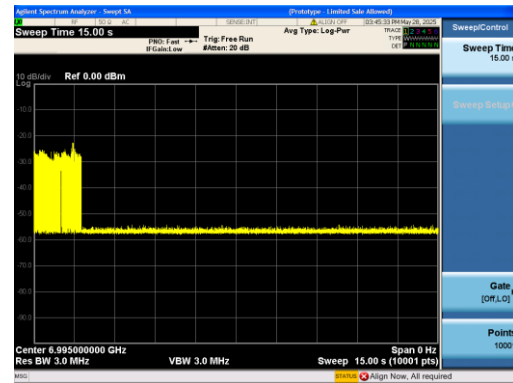
802.11 ax (HE20) /6995MHz

Threshold Level (TL)



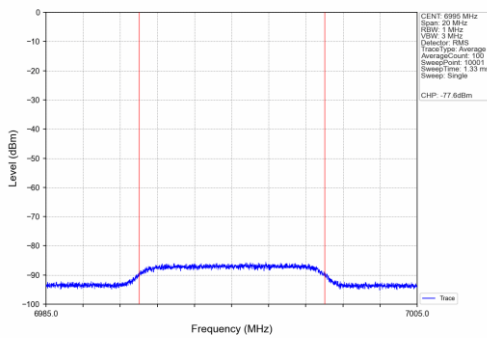
802.11 ax (HE20) /6995MHz

Test Result is pass due to no transmission occur.



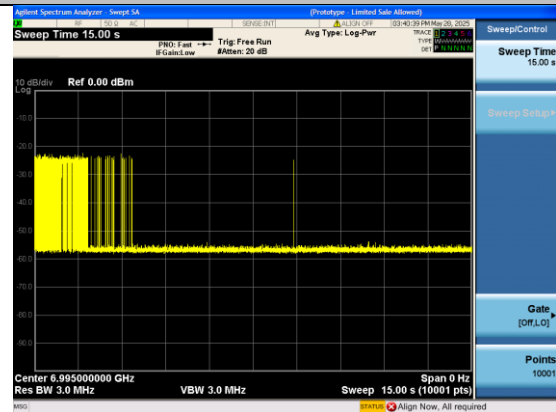
802.11 ax (HE20) /6995MHz

Threshold Level (TL)



802.11 ax (HE20) /6995MHz

Transmission when the interferer is Minimal
Operation





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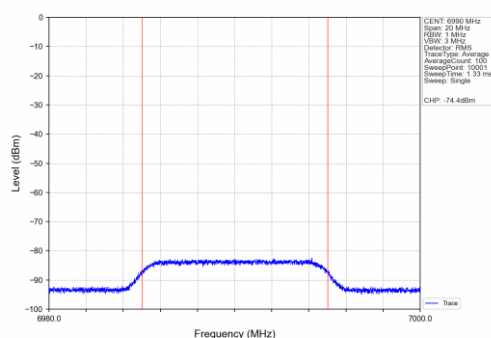
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Contention Based Protocol Result on U-NII 8 (AWGN Interference)

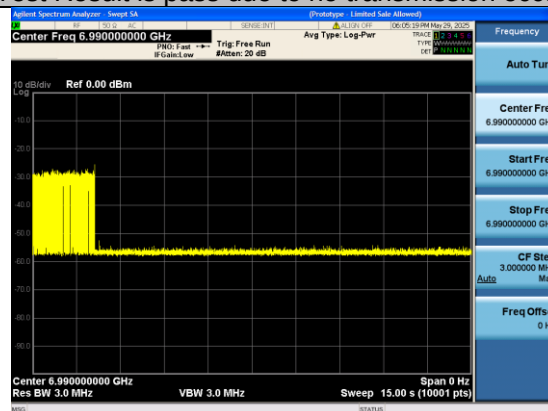
802.11 ax (HE80) /6990MHz

Threshold Level (TL)



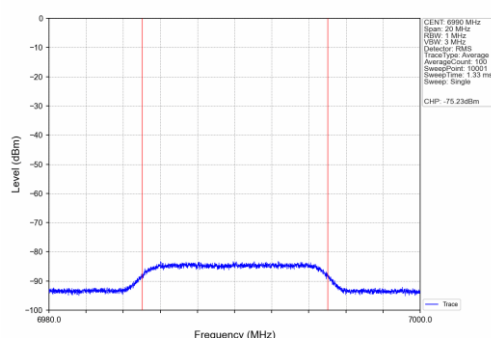
802.11 ax (HE80) /6990MHz

Test Result is pass due to no transmission occur.



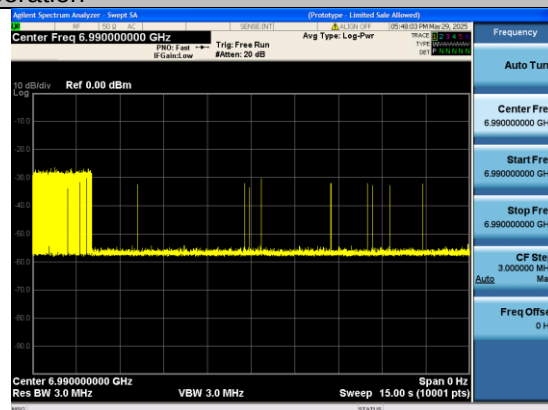
802.11 ax (HE80) /6990MHz

Threshold Level (TL)



802.11 ax (HE80) /6990MHz

Transmission when the interferer is Minimal
Operation





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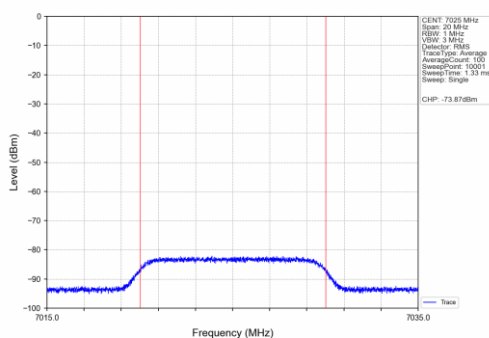
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Contention Based Protocol Result on U-NII 8 (AWGN Interference)

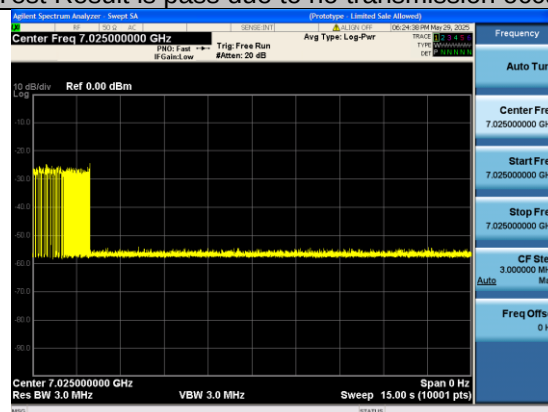
802.11 ax (HE80) /7025MHz

Threshold Level (TL)



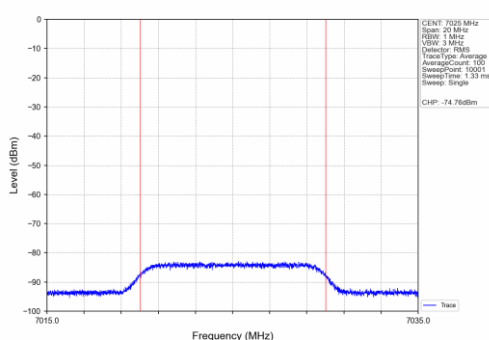
802.11 ax (HE80) /7025MHz

Test Result is pass due to no transmission occur.



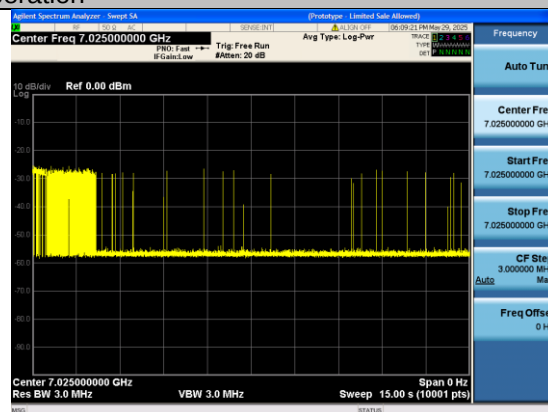
802.11 ax (HE80) /7025MHz

Threshold Level (TL)



802.11 ax (HE80) /7025MHz

Transmission when the interferer is Minimal
Operation





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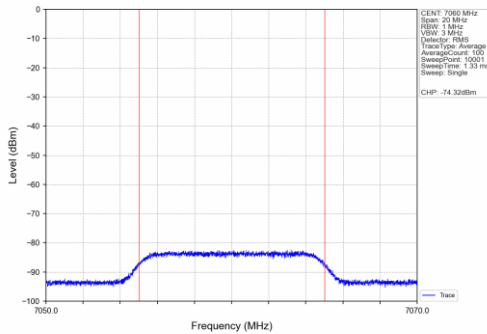
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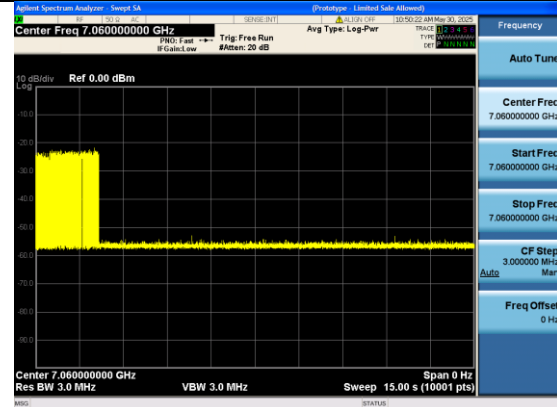
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Contention Based Protocol Result on U-NII 8 (AWGN Interference)

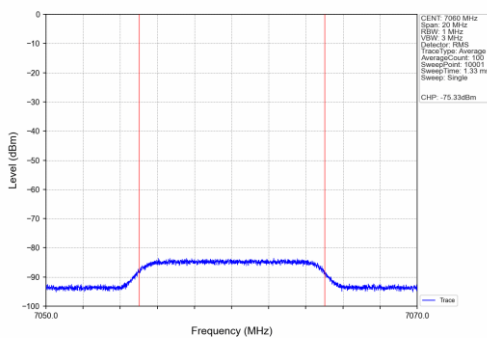
802.11 ax (HE80) /7060MHz
Threshold Level (TL)



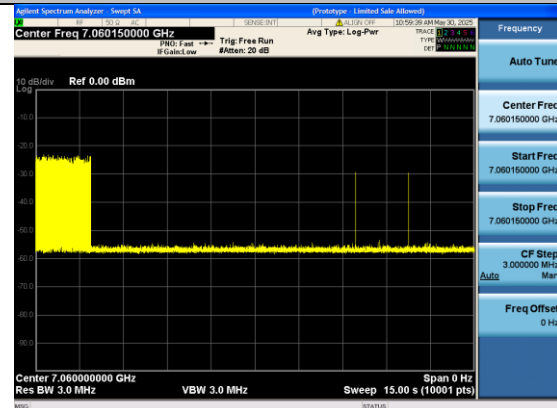
802.11 ax (HE80) /7060MHz
Test Result is pass due to no transmission occur.

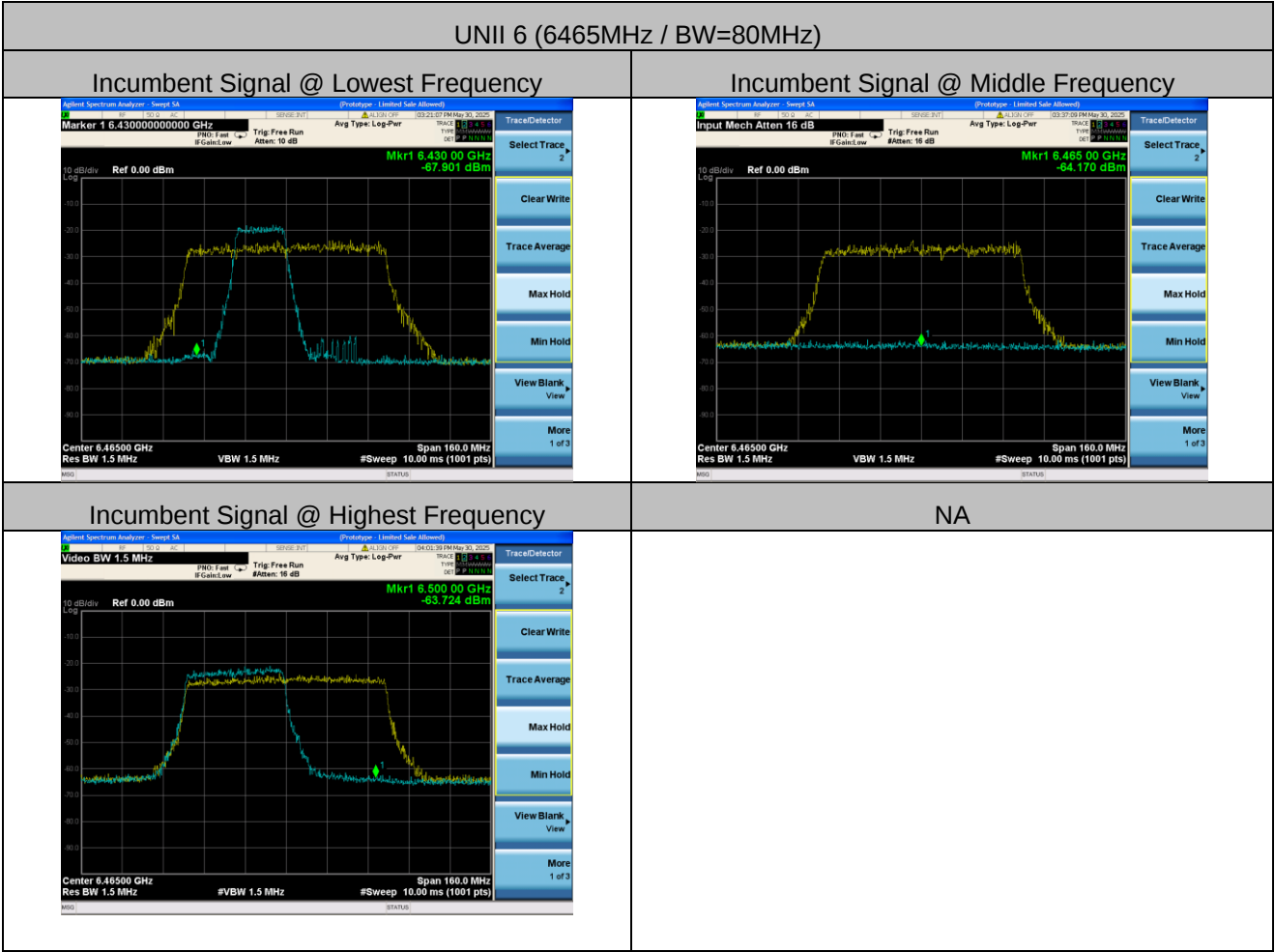


802.11 ax (HE80) /7060MHz
Threshold Level (TL)



802.11 ax (HE80) /7060MHz
Transmission when the interferer is Minimal
Operation





Note: The device does not support channel puncturing for CBP mode, the CBP mode empty channel reduction mechanism to protect incumbent operations.



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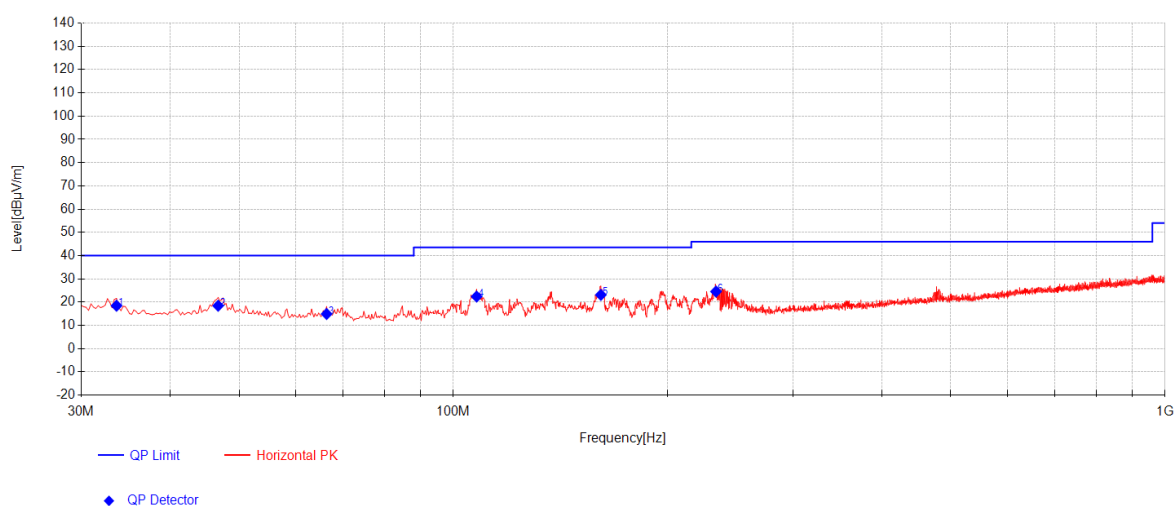
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Radiated Spurious Emissions

Radiated emission below 1GHz

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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	33.6375	34.26	-33.97	18.16	18.46	40.00	21.54	Horizontal
2	46.7325	33.24	-33.75	18.95	18.45	40.00	21.55	Horizontal
3	66.375	31.16	-33.47	17.23	14.92	40.00	25.08	Horizontal
4	107.8425	39.89	-33.02	15.52	22.39	43.50	21.11	Horizontal
5	161.1925	36.57	-32.54	19.10	23.13	43.50	20.37	Horizontal
6	233.9425	40.06	-32.07	16.58	24.56	46.00	21.44	Horizontal



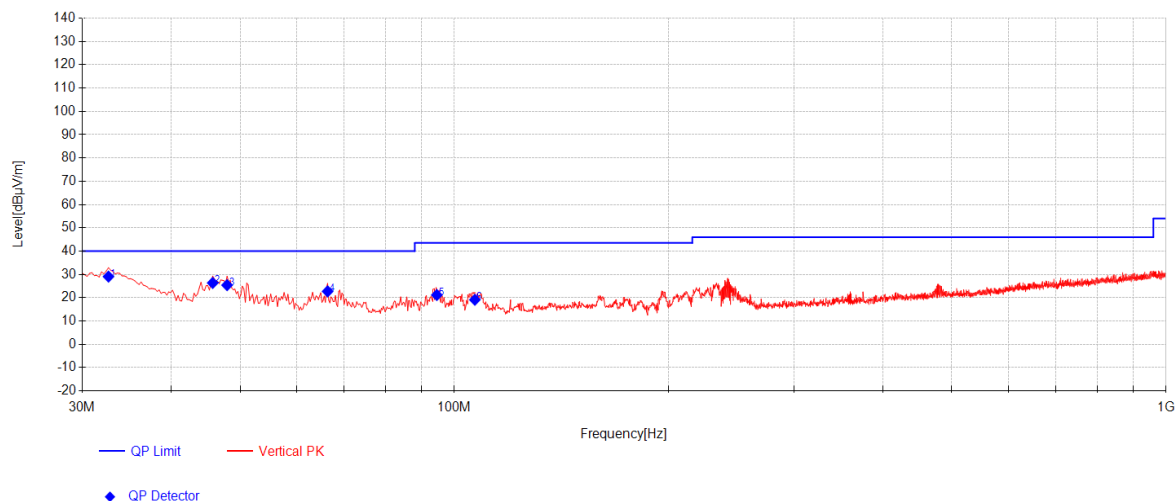
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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	32.6675	44.96	-33.98	18.10	29.08	40.00	10.92	Vertical
2	45.7625	41.05	-33.76	19.05	26.34	40.00	13.66	Vertical
3	47.945	40.32	-33.72	18.81	25.40	40.00	14.60	Vertical
4	66.375	38.96	-33.47	17.23	22.72	40.00	17.28	Vertical
5	94.505	40.06	-33.20	14.30	21.16	43.50	22.34	Vertical
6	106.8725	36.57	-33.03	15.57	19.11	43.50	24.39	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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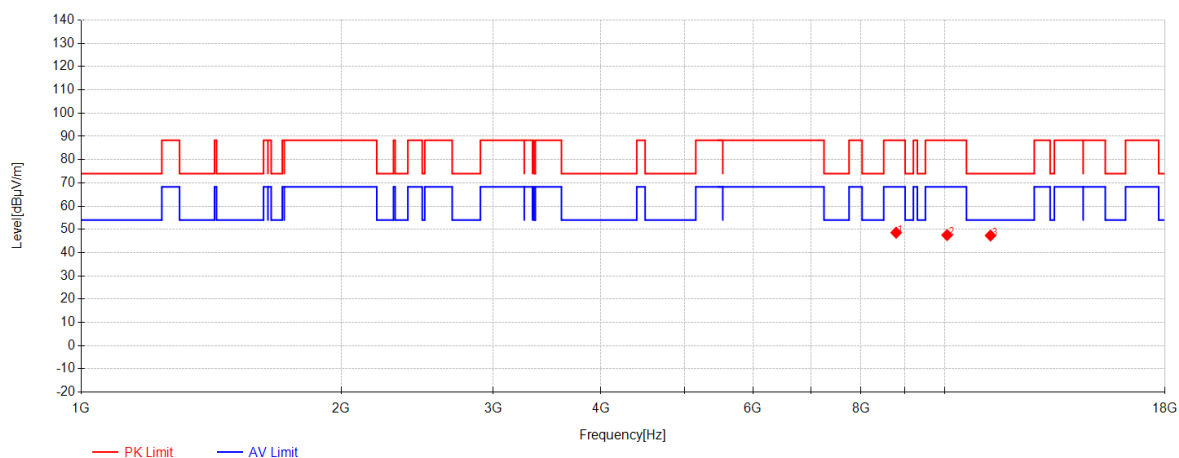
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Transmitter emission Above 1GHz

802.11ax20 MIMO_Channel 233



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8787	45.08	37.49	-33.98	48.59	88.30	39.71	Horizontal
2	10066.666	41.28	37.93	-31.67	47.54	88.30	40.76	Horizontal
3	11302.333	38.27	38.40	-29.32	47.35	74.00	26.65	Horizontal



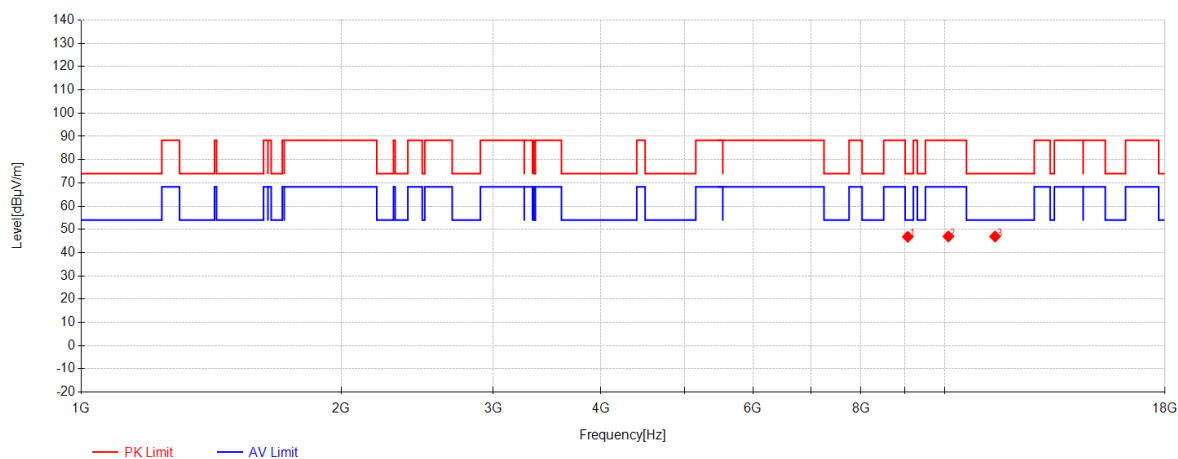
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802.11ax20 MIMO_Channel 233



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	9063.3333	43.13	37.62	-33.93	46.82	74.00	27.18	Vertical
2	10099.333	40.60	37.95	-31.59	46.96	88.30	41.34	Vertical
3	11439.666	38.27	38.40	-29.73	46.94	74.00	27.06	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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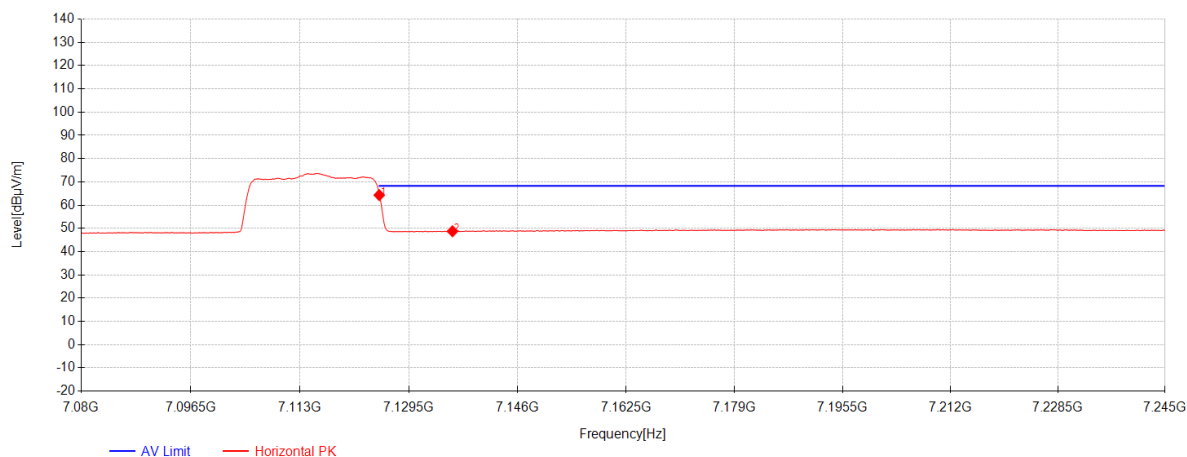
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Restricted bands around fundamental frequency

802.11ax20 MIMO_Channel 233



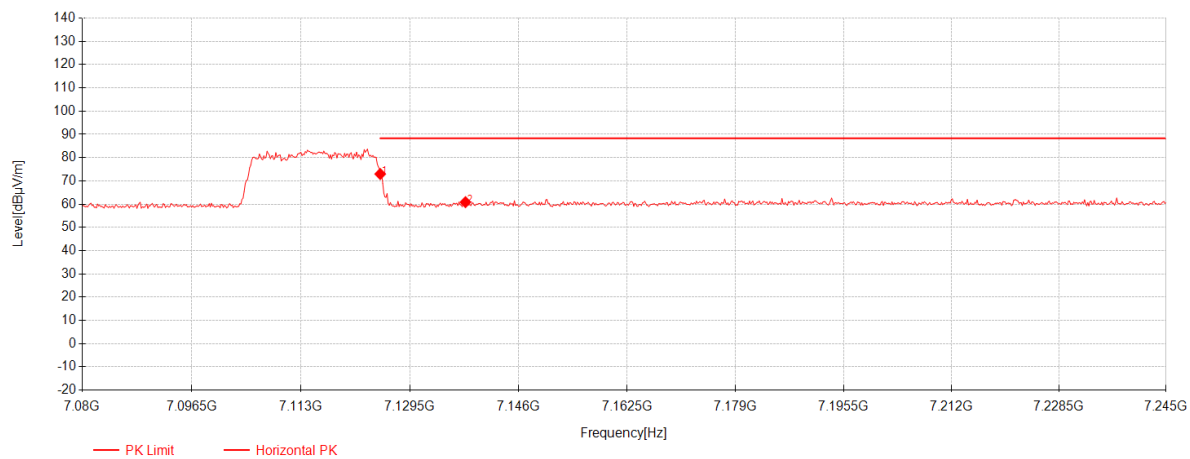
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7125	42.60	36.15	-14.45	64.30	68.30	4.00	Horizontal
2	7136.1	27.00	36.16	-14.40	48.76	68.30	19.54	Horizontal



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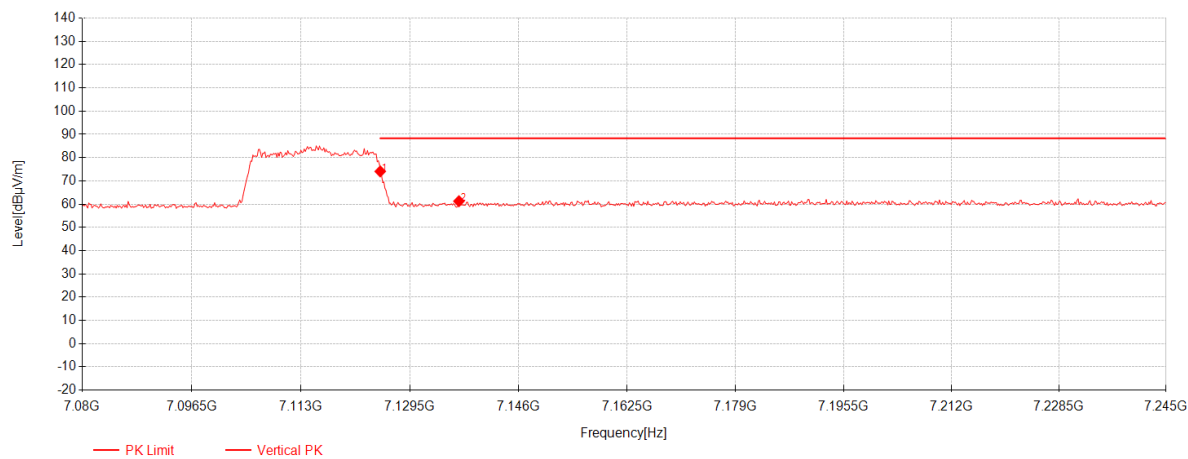
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7125	51.26	36.15	-14.45	72.96	88.30	15.34	Horizontal
2	7137.915	39.09	36.17	-14.39	60.86	88.30	27.44	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7125	52.38	36.15	-14.45	74.08	88.30	14.22	Vertical
2	7136.925	39.48	36.16	-14.40	61.25	88.30	27.05	Vertical



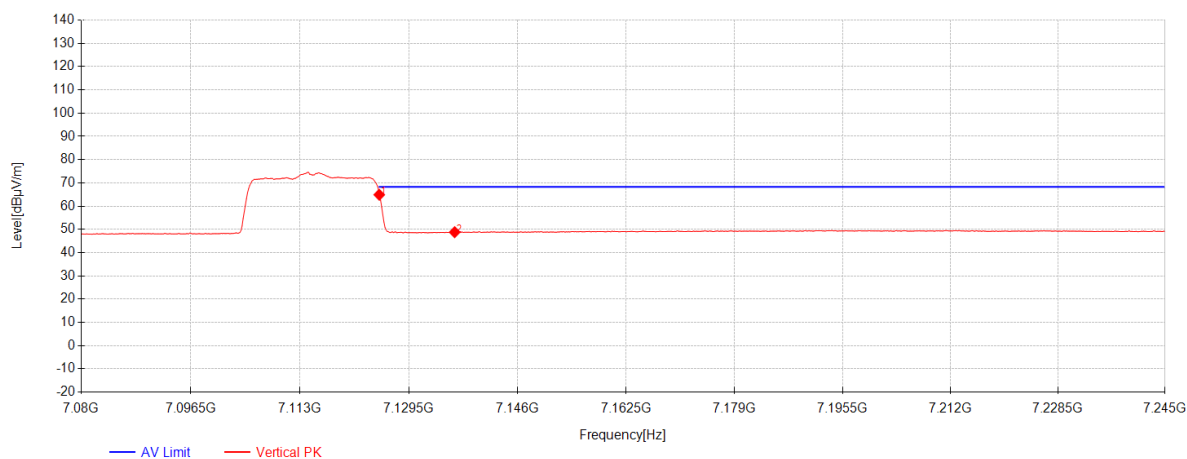
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802.11ax20 MIMO_Channel 233



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7125	43.19	36.15	-14.45	64.89	68.30	3.41	Vertical
2	7136.43	27.04	36.16	-14.40	48.80	68.30	19.50	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---