Emission below 1GHz

WIFI 802.11ax HE20 Partial 106 (LF @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106 LF		51.34	32.7	-7.3	40	50.75	13.6	0.92	32.57	-	-	P	H
		75.59	33.85	-6.15	40	52.46	12.8	1.07	32.48	-	-	P	H
		110.51	24.74	-18.76	43.5	39.23	16.77	1.24	32.5	-	-	P	H
		132.82	27.14	-16.36	43.5	40.71	17.48	1.46	32.51	-	-	P	H
		471.35	31.55	-14.45	46	37.98	23.42	2.58	32.43	-	-	P	H
		730.34	33.12	-12.88	46	34.85	27.34	3.26	32.33	-	-	P	H
													H
													H
													H
													H
													H
													H
		49.4	33.41	-6.59	40	50.47	14.6	0.91	32.57	-	-	P	V
		75.59	32.72	-7.28	40	51.33	12.8	1.07	32.48	-	-	P	V
		95.96	21.94	-21.56	43.5	37.94	15.31	1.15	32.46	-	-	P	V
		144.46	22.23	-21.27	43.5	35.92	17.24	1.56	32.49	-	-	P	V
		471.35	30.88	-15.12	46	37.31	23.42	2.58	32.43	-	-	P	V
		736.16	34.38	-11.62	46	35.86	27.56	3.27	32.31	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												

<Sample 1>

Band 5 - 5925~6425MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
9+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Partial 996/67 CH 15 6025MHz		5898.92	79.17	-9.03	88.2	71.84	34.3	9.74	36.71	100	327	P	H
		5924.84	65.57	-2.63	68.2	58.3	34.2	9.78	36.71	100	327	A	H
	*	6025	108.52	-	-	101.17	34.15	9.9	36.7	100	327	P	H
	*	6025	98.81	-	-	91.46	34.15	9.9	36.7	100	327	A	H
													H
													H
		5897	80.32	-7.88	88.2	73	34.29	9.74	36.71	100	92	P	V
		5919.4	63.84	-4.36	68.2	56.56	34.22	9.77	36.71	100	92	A	V
	*	6025	108.04	-	-	100.69	34.15	9.9	36.7	100	92	P	V
	*	6025	97.25	-	-	89.9	34.15	9.9	36.7	100	92	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Partial 996 (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 15 6025MHz		11488	50.03	-23.97	74	55.86	39	12.94	57.81	-	-	P	H
		11488	41.24	-12.76	54	47.07	39	12.94	57.81	-	-	A	H
		12050	47.09	-26.91	74	52.03	39.2	13.22	57.37	-	-	P	H
		14480	50.73	-23.27	74	53.08	40	14.54	56.9	-	-	P	H
		14480	41.94	-12.06	54	44.29	40	14.54	56.9	-	-	A	H
		17848	54.39	-19.61	74	57.03	40.53	16.19	59.42	-	-	P	H
		17848	45.6	-8.4	54	48.24	40.53	16.19	59.42	-	-	A	H
		18075	35.61	-38.39	74	57.31	37.62	6.07	55.85	-	-	P	H
													H
													H
													H
													H
		11240	49.54	-24.46	74	55.74	38.94	12.81	58.01	-	-	P	V
		11240	40.75	-13.25	54	46.95	38.94	12.81	58.01	-	-	A	V
		12050	51.1	-22.9	74	56.04	39.2	13.22	57.37	100	172	P	V
		12050	39.96	-14.04	54	44.9	39.2	13.22	57.37	100	172	A	V
		14488	49.82	-24.18	74	52.17	40	14.54	56.9	-	-	P	V
		14488	41.03	-12.97	54	43.38	40	14.54	56.9	-	-	A	V
		17912	54.76	-19.24	74	56.79	41.05	16.22	59.37	-	-	P	V
		17912	45.97	-8.03	54	48	41.05	16.22	59.37	-	-	A	V
		18075	35.78	-38.22	74	57.73	37.62	5.82	55.85	-	-	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 233 7125MHz	*	7115	82.41	-	-	72.23	36.36	10.53	36.71	100	131	P	H
	*	7115	72.16	-	-	61.98	36.36	10.53	36.71	100	131	A	H
		7125.02	68.56	-19.64	88.2	58.32	36.4	10.54	36.7	100	131	P	H
		7125.02	60.75	-7.45	68.2	50.51	36.4	10.54	36.7	100	131	A	H
													H
													H
	*	7115	83.26	-	-	73.08	36.36	10.53	36.71	100	279	P	V
	*	7115	73.36	-	-	63.18	36.36	10.53	36.71	100	279	A	V
		7125.02	70.72	-17.48	88.2	60.48	36.4	10.54	36.7	100	279	P	V
		7125.02	62.48	-5.72	68.2	52.24	36.4	10.54	36.7	100	279	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Partial 106 (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 233 7125MHz		11456	49.54	-24.46	74	55.42	39	12.96	57.84	-	-	P	H
		11456	40.75	-13.25	54	46.63	39	12.96	57.84	-	-	A	H
		14230	49.42	-38.78	88.2	51.64	40.24	14.44	56.9	-	-	P	H
		14496	49.54	-24.46	74	51.89	40	14.55	56.9	-	-	P	H
		14496	40.75	-13.25	54	43.1	40	14.55	56.9	-	-	A	H
		17936	53.98	-20.02	74	55.89	41.14	16.3	59.35	-	-	P	H
		17936	45.19	-8.81	54	47.1	41.14	16.3	59.35	-	-	A	H
		21345	37.08	-36.92	74	56.81	37.79	-2.72	54.8	-	-	P	H
													H
													H
													H
													H
		11448	50.64	-23.36	74	56.52	39	12.96	57.84	-	-	P	V
		11448	41.85	-12.15	54	47.73	39	12.96	57.84	-	-	A	V
		14230	49.64	-38.56	88.2	51.86	40.24	14.44	56.9	-	-	P	V
		14488	49.47	-24.53	74	51.82	40	14.55	56.9	-	-	A	V
		14488	40.68	-13.32	54	43.03	40	14.55	56.9	-	-	P	V
		17920	54.28	-19.72	74	56.26	41.08	16.3	59.36	-	-	A	V
		17920	45.49	-8.51	54	47.47	41.08	16.3	59.36	-	-	P	V
		21345	36.94	-37.06	74	57.22	37.79	-3.27	54.8	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
9+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Radiated Spurious Emission

Test Engineer :	Leo Li and Bigshow Wang	**Temperature :**	21.5~23.6°C
		Relative Humidity :	50~60%

Note symbol

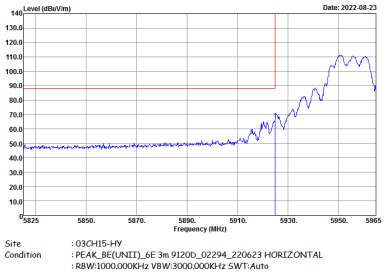
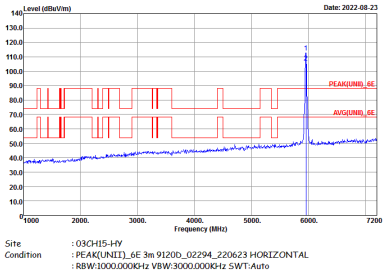
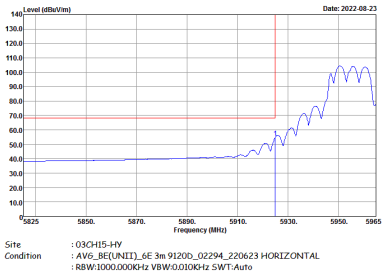
-L	**Low channel location**
-R	**High channel location**

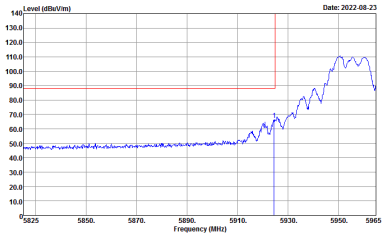
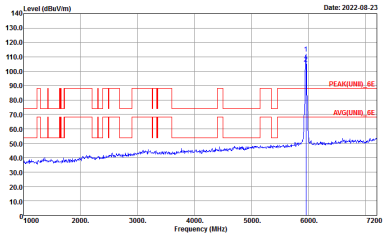
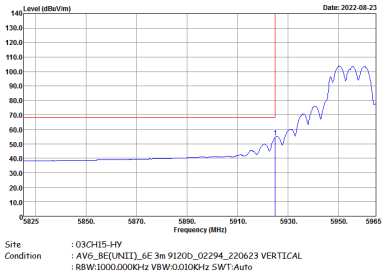
<SDM Mode>

<Sample 2>

Band 5 - 5925~6425MHz

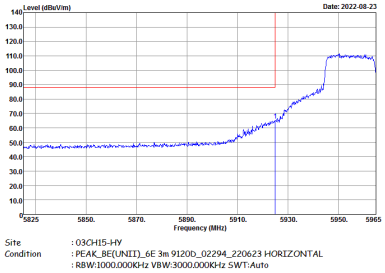
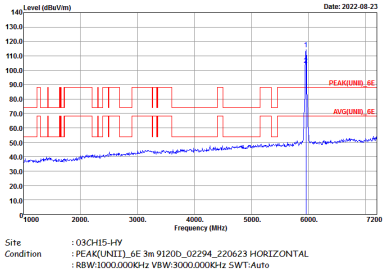
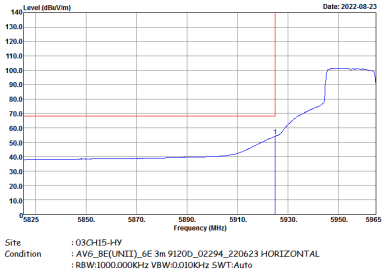
WIFI 802.11a (Band Edge @ 3m)

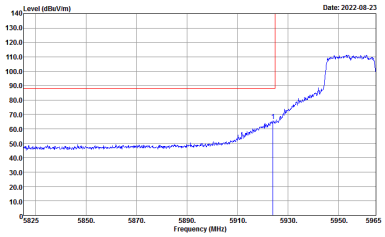
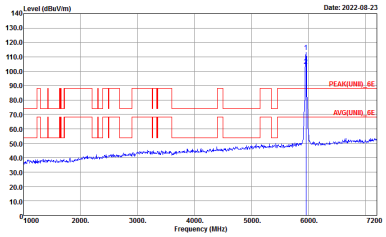
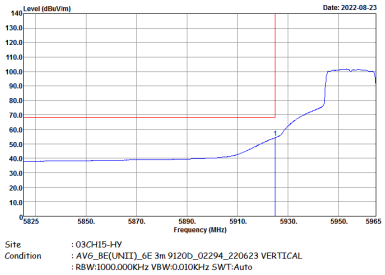
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

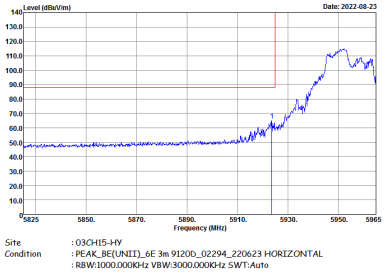
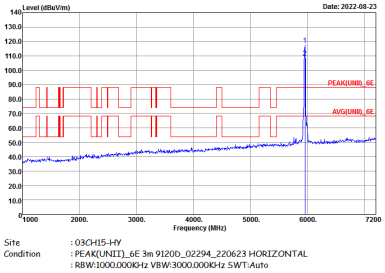
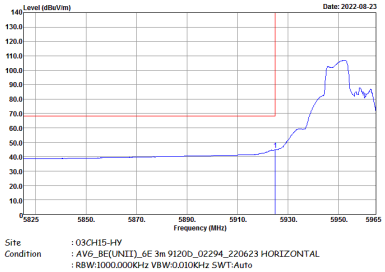
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

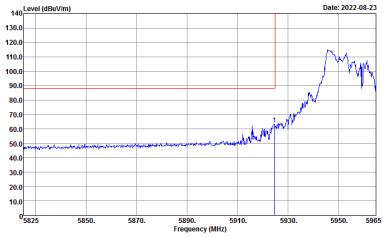
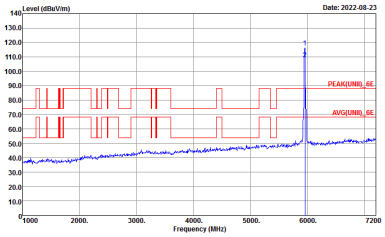
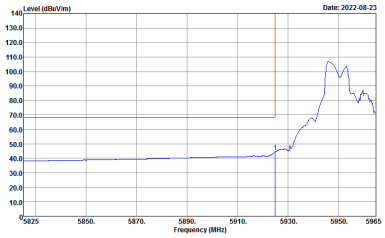
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

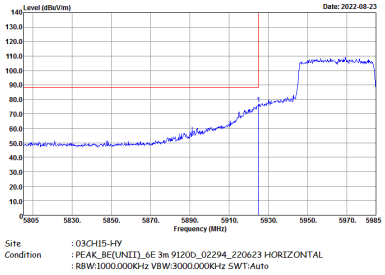
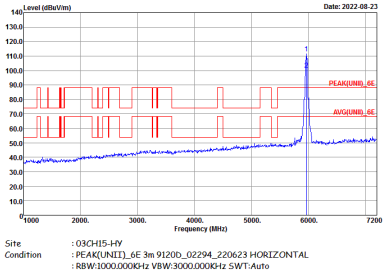
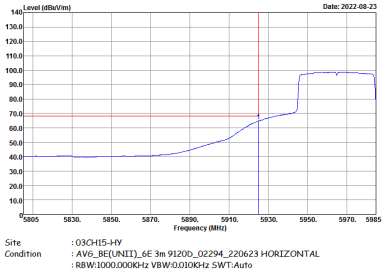
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

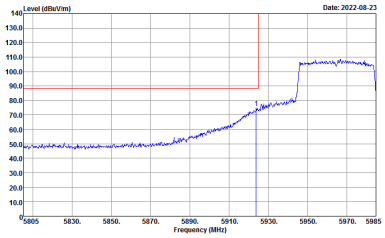
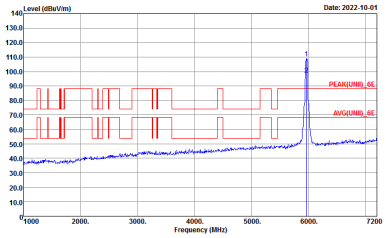
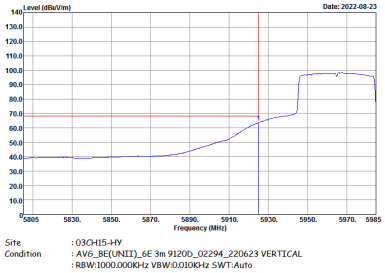
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

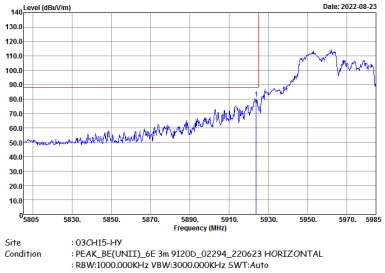
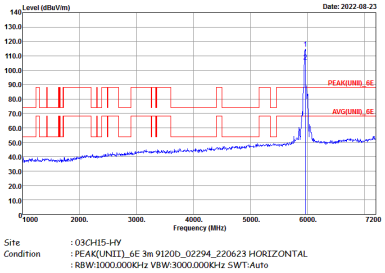
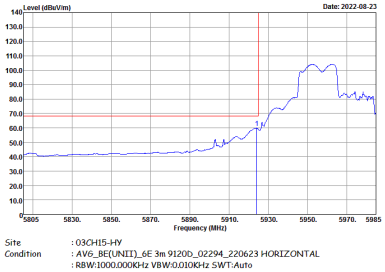
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

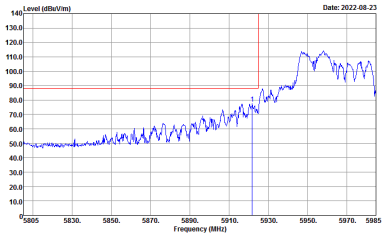
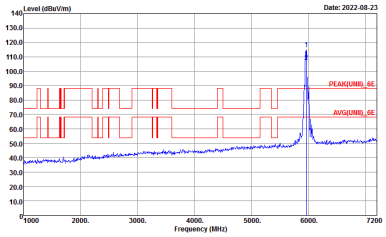
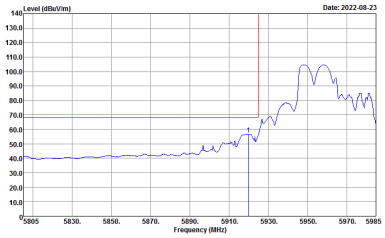
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

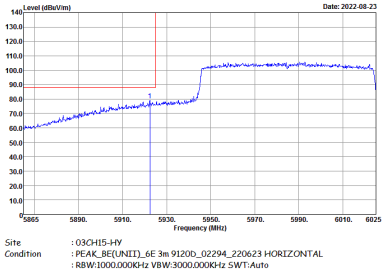
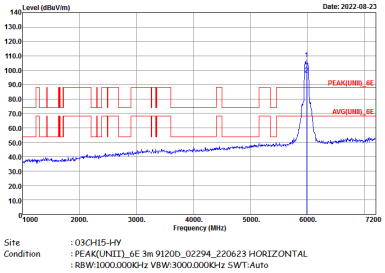
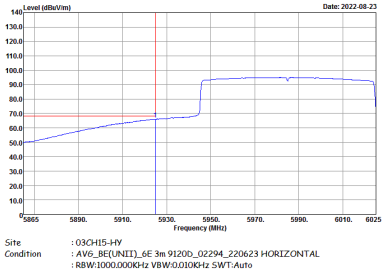
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

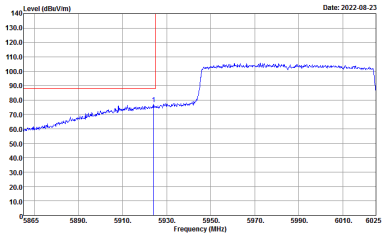
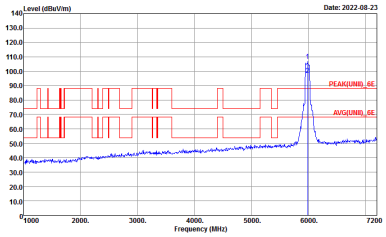
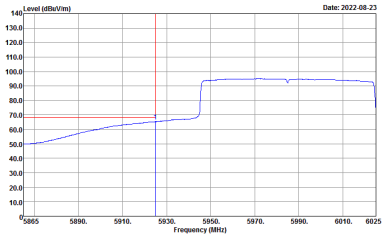
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

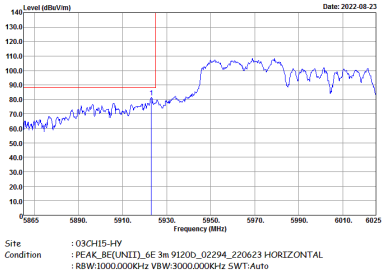
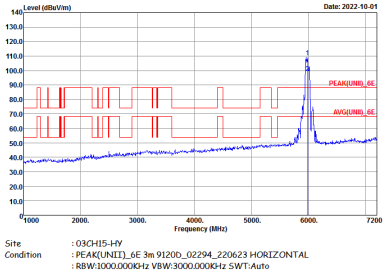
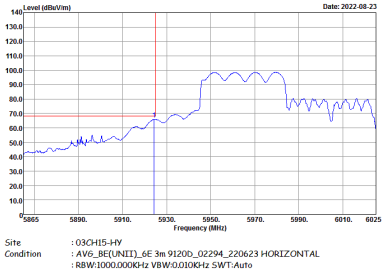
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

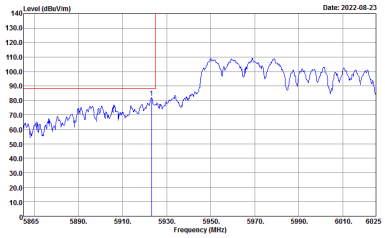
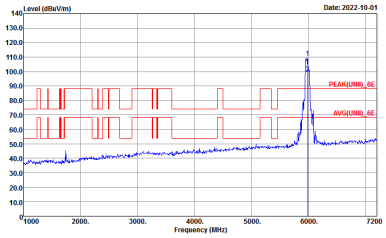
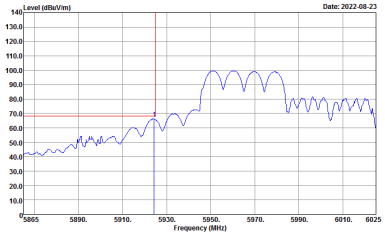
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

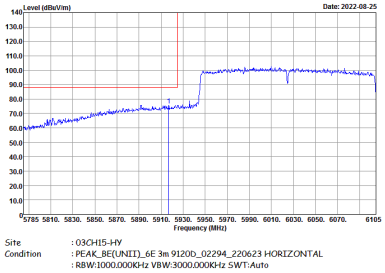
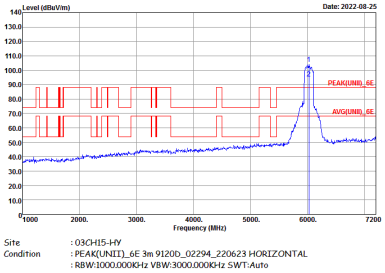
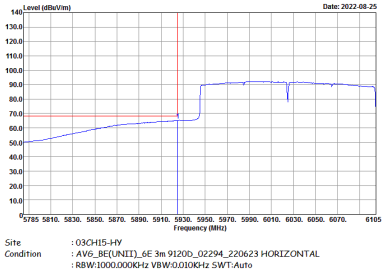
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

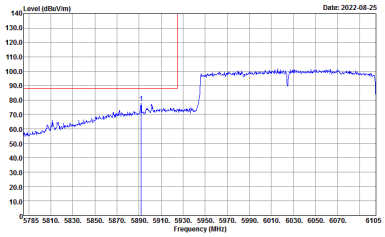
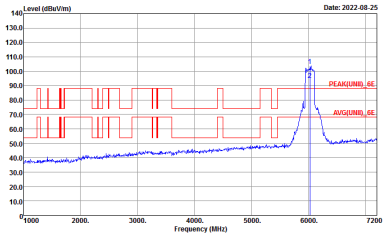
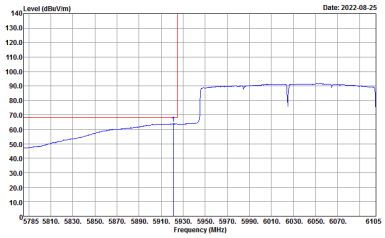
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH07 5985MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH07 5985MHz	
9+8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 5 5925~6425MHz

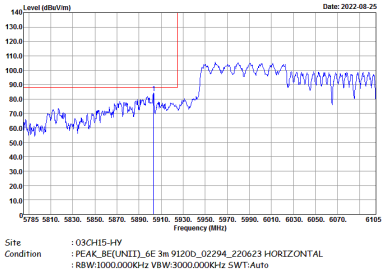
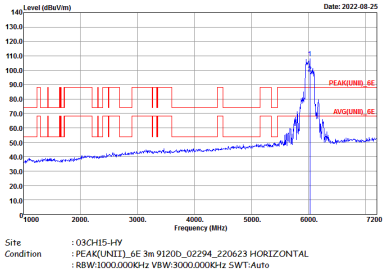
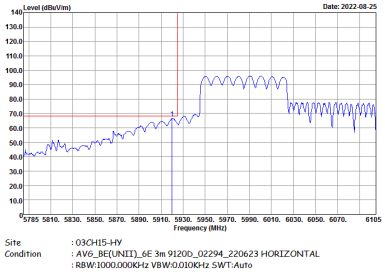
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

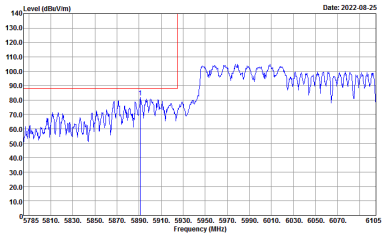
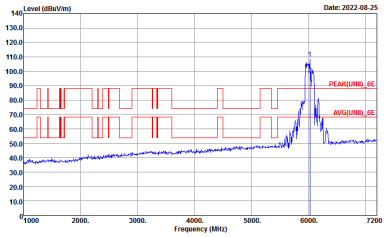
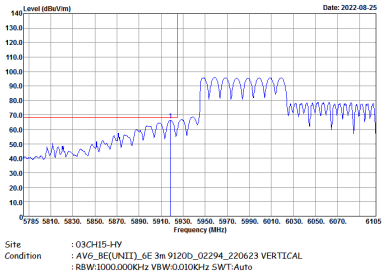
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 5925~6425MHz

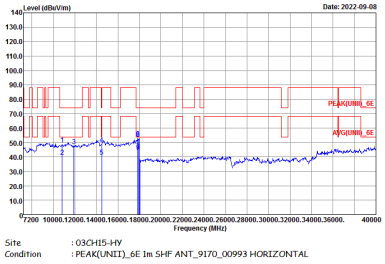
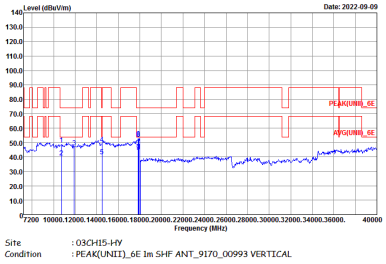
WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

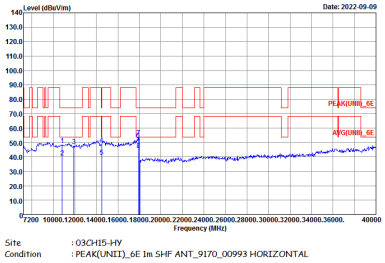
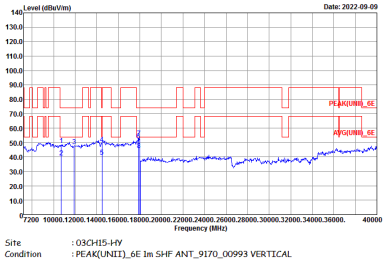
Band 5 - 5925~6425MHz

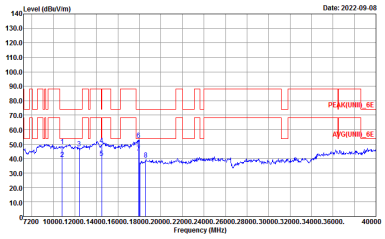
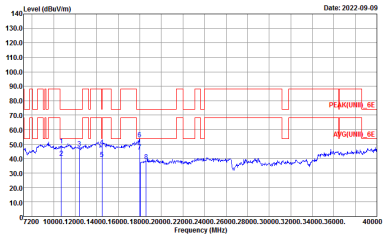
WIFI 802.11a (Harmonic @ 3m)

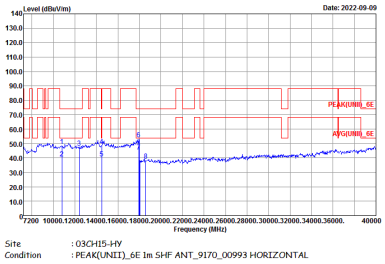
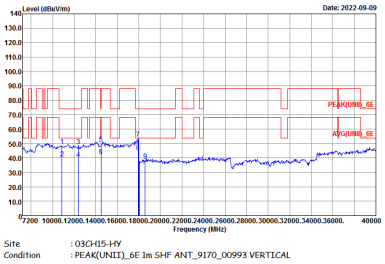
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH01 5955MHz	
9+8	Horizontal	Vertical
Peak Avg.		

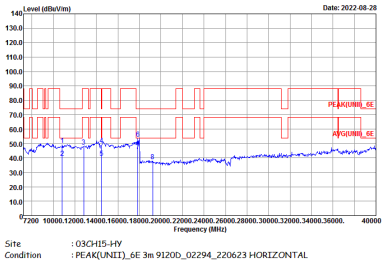
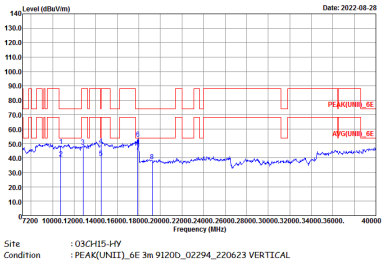
Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
9+8	Horizontal	Vertical
Peak Avg.		

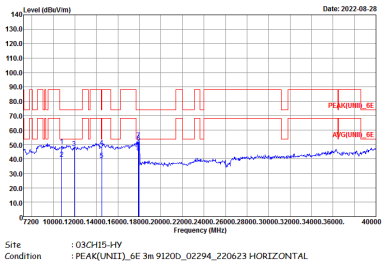
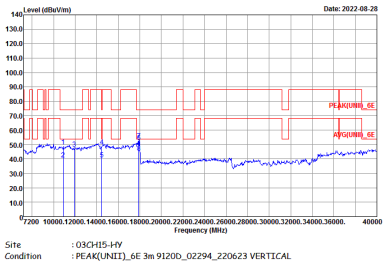
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH45 6175MHz	
9+8	Horizontal	Vertical
Peak Avg.		

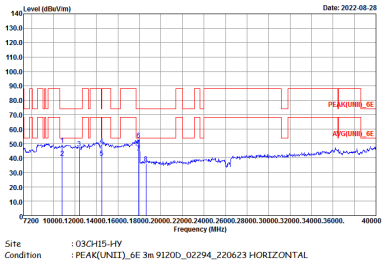
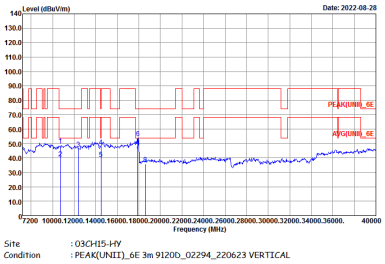
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
9+8	Horizontal	Vertical
Peak Avg.		

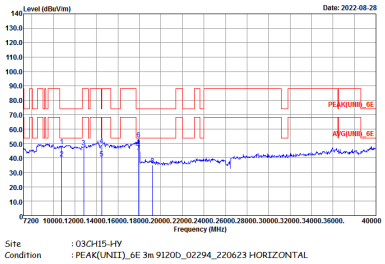
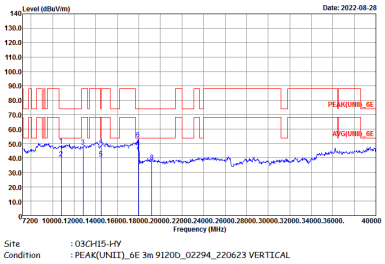
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

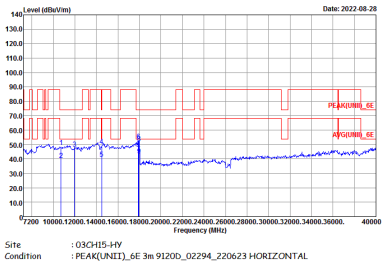
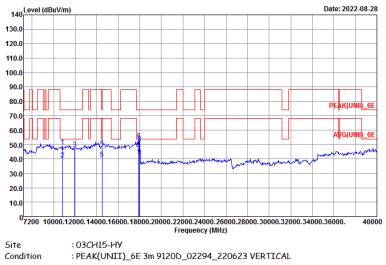
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
9+8	Horizontal	Vertical
Peak Avg.		

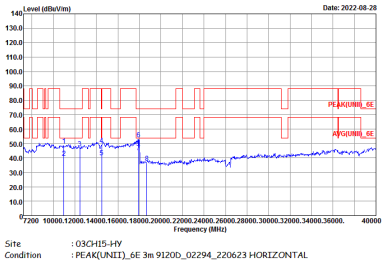
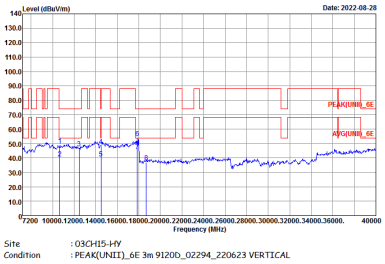
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
9+8	Horizontal	Vertical
Peak Avg.		

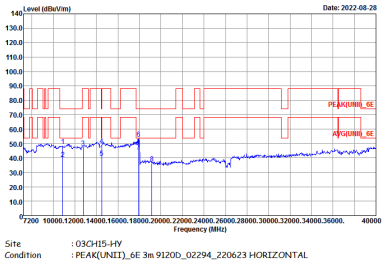
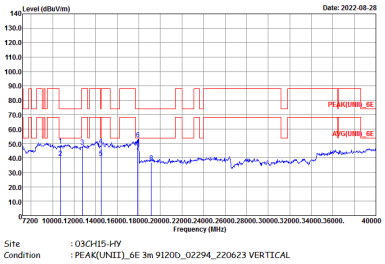
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

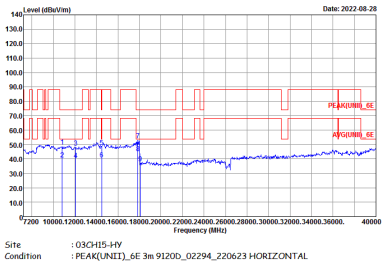
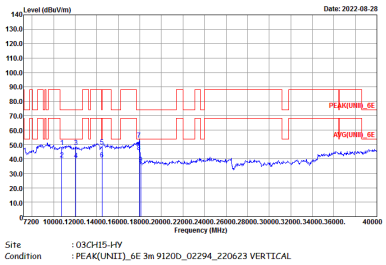
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
9+8	Horizontal	Vertical
Peak Avg.		

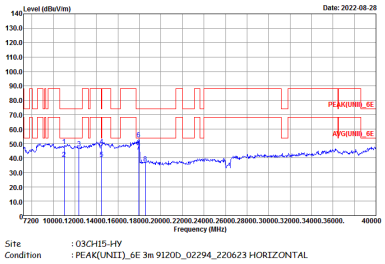
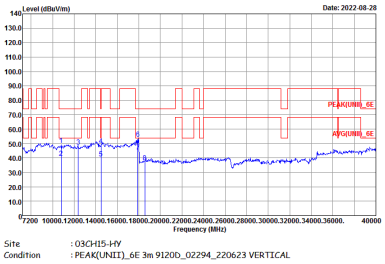
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH55 6225MHz	
9+8	Horizontal	Vertical
Peak Avg.		

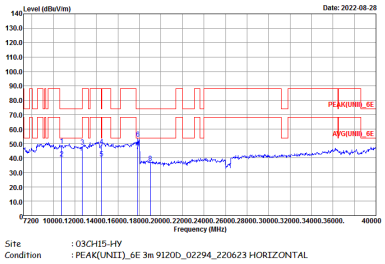
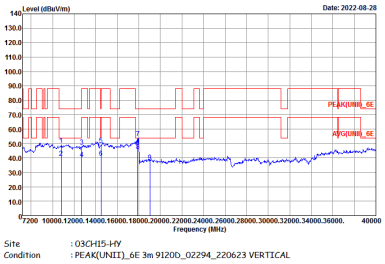
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH87 6385MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

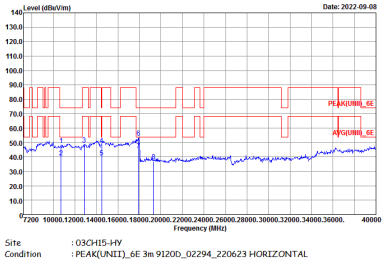
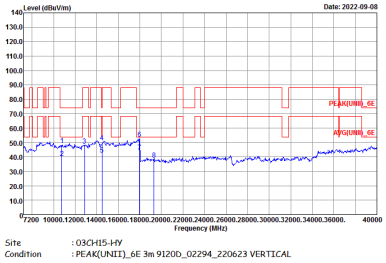
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
9+8	Horizontal	Vertical
Peak Avg.		

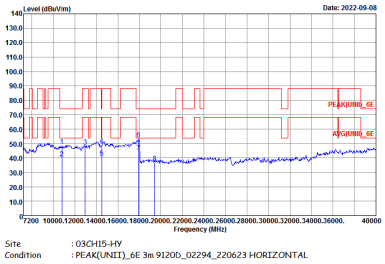
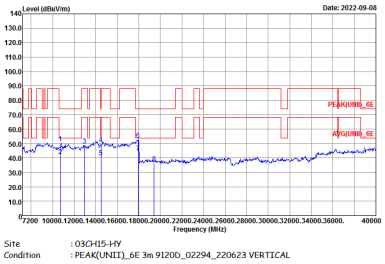
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
9+8	Horizontal	Vertical
Peak Avg.		

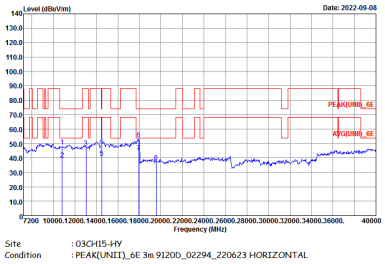
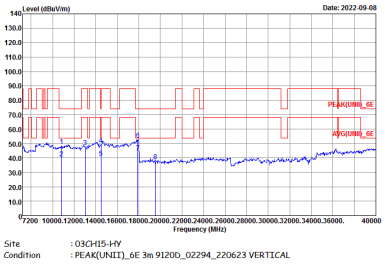
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 6 - 6425~6525MHz

WIFI 802.11a (Harmonic @ 3m)

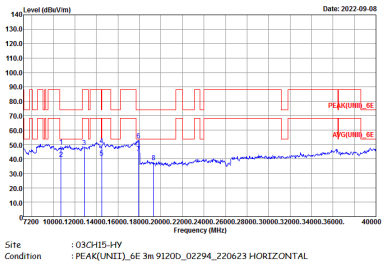
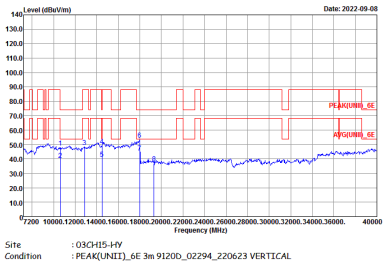
WIFI	Band 6 6425~6525MHz Harmonic @ 3vum	
ANT	802.11a CH97 6435MHz	
9+8	Horizontal	Vertical
Peak Avg.		

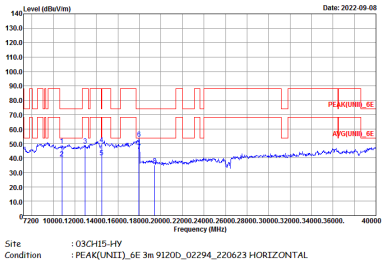
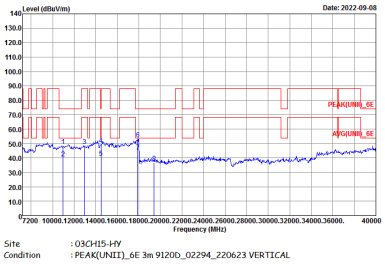
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11a CH105 6475MHz	
9+8	Horizontal	Vertical
Peak Avg.		

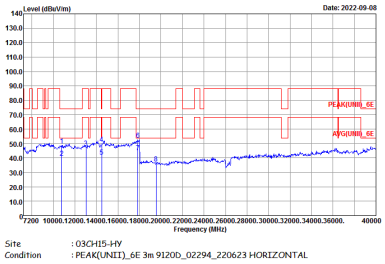
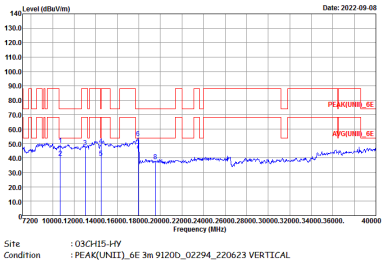
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11a CH113 6615MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 6 6425~6525MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

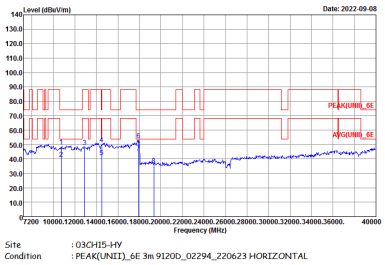
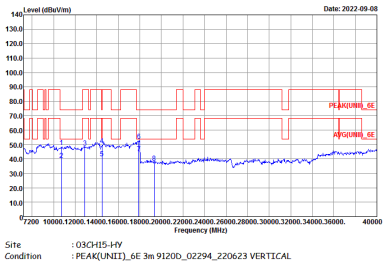
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH97 6435MHz	
9+8	Horizontal	Vertical
Peak Avg.		

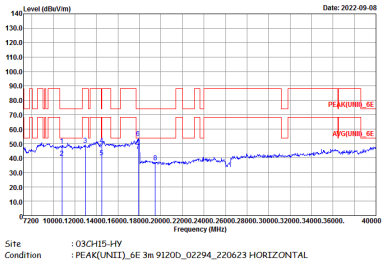
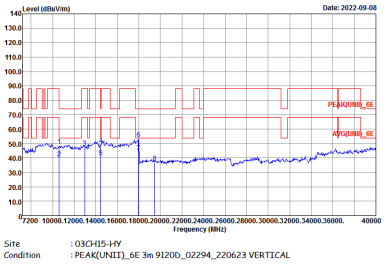
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH105 6475MHz	
9+8	Horizontal	Vertical
Peak Avg.		

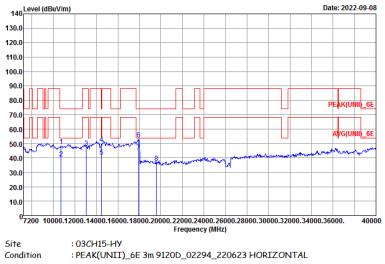
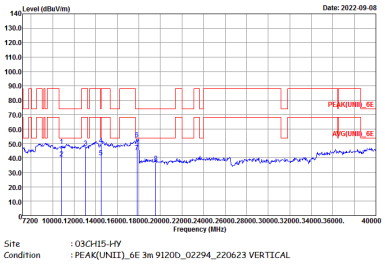
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH113 6515MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 6 6425~6525MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

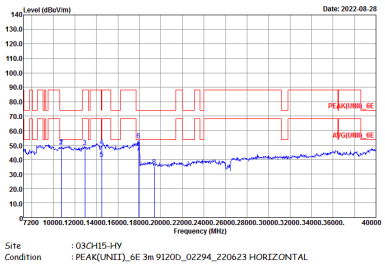
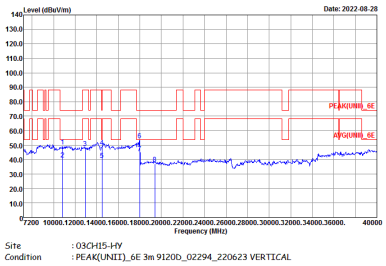
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH99 6445MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH107 6485MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH115 6525MHz	
9+8	Horizontal	Vertical
Peak Avg.		

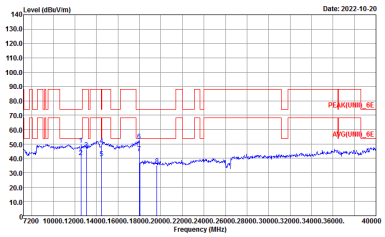
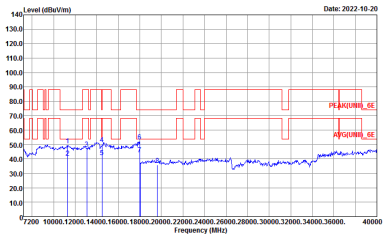
Band 6 6425~6525MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH103 6465MHz	
9+8	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL

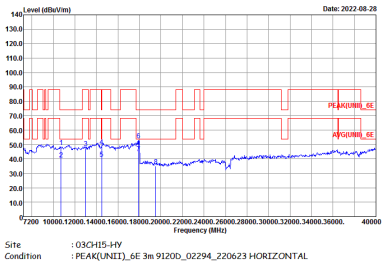
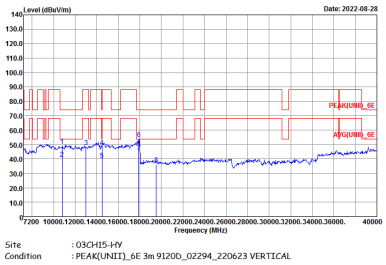
Band 6 6425~6525MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH119 6545MHz	
9+8	Horizontal	Vertical
Peak Avg.		

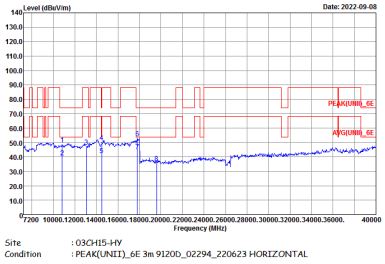
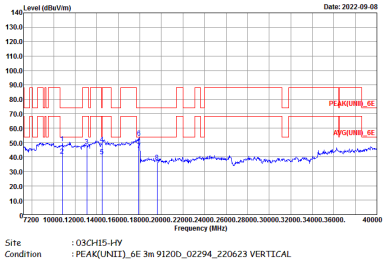
Band 6 6425~6525MHz

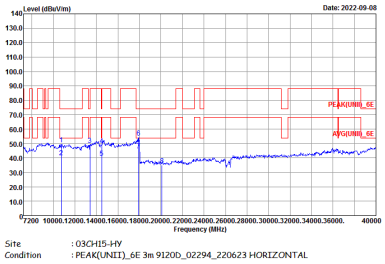
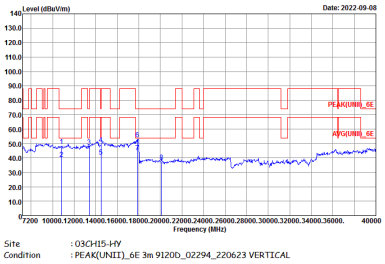
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

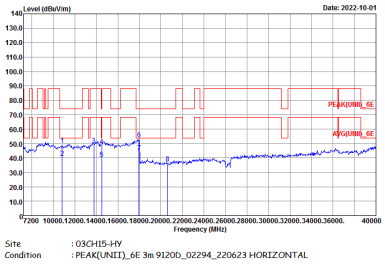
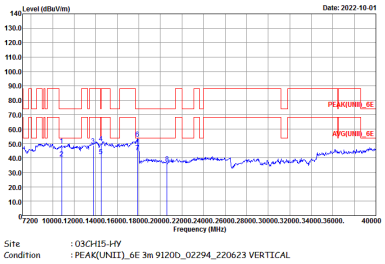
WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH111 6505MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 7 - 6525~6875MHz

WIFI 802.11a (Harmonic @ 3m)

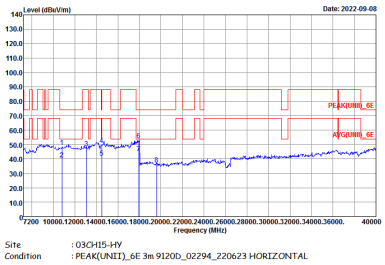
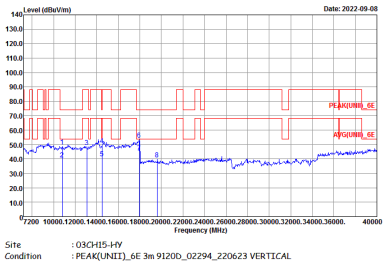
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH117 6535MHz	
9+8	Horizontal	Vertical
Peak Avg.		

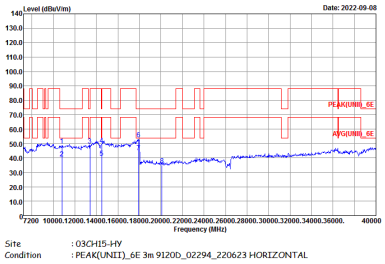
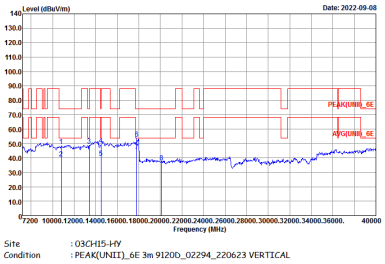
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH149 6695MHz	
9+8	Horizontal	Vertical
Peak Avg.		

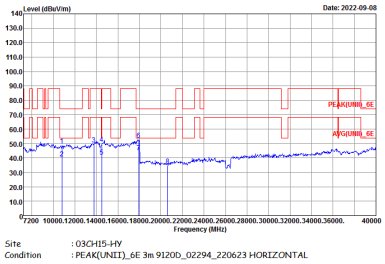
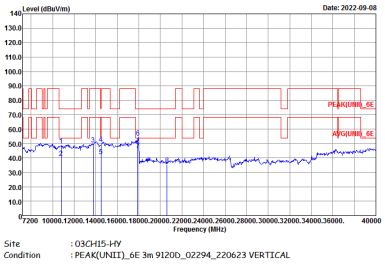
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH185 6875MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

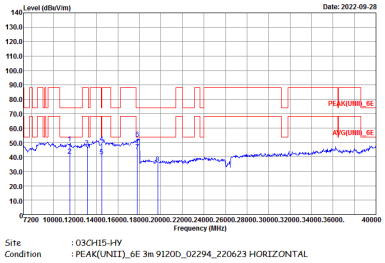
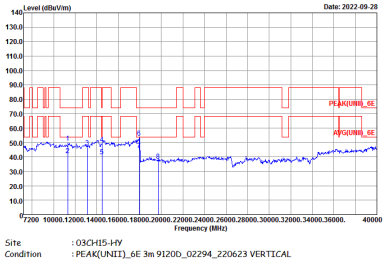
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH117 6535MHz	
9+8	Horizontal	Vertical
Peak Avg.		

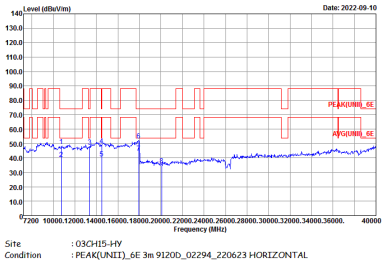
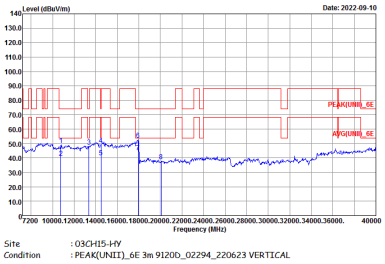
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 6695MHz	
9+8	Horizontal	Vertical
Peak Avg.		

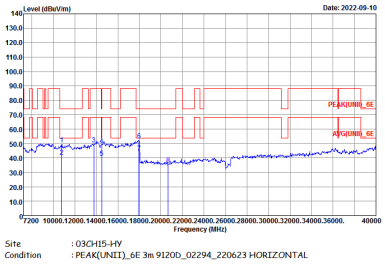
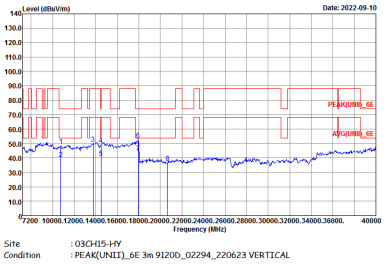
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH185 6875MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

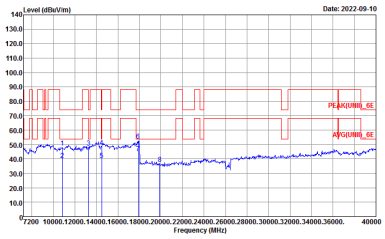
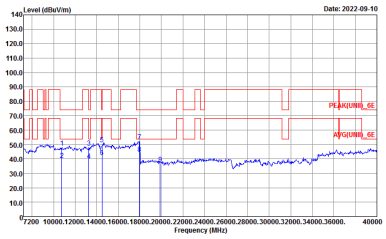
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH123 6565MHz	
9+8	Horizontal	Vertical
Peak Avg.		

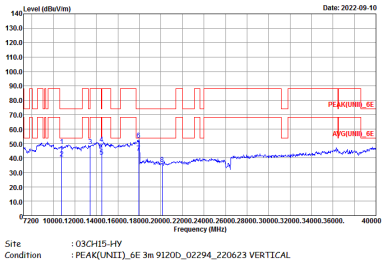
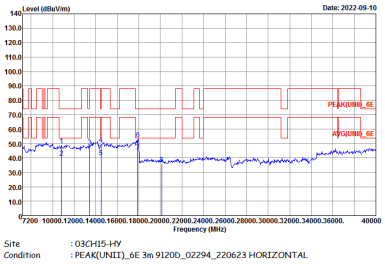
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH147 6685MHz	
9+8	Horizontal	Vertical
Peak Avg.		

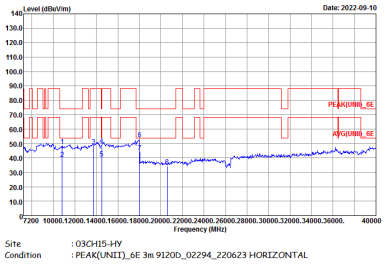
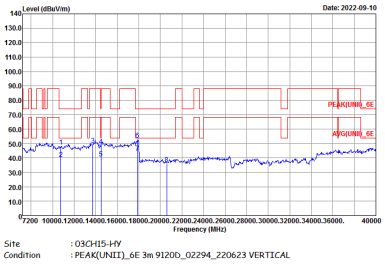
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH187 6885MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

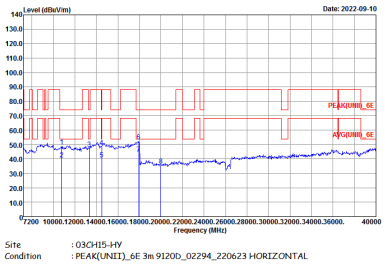
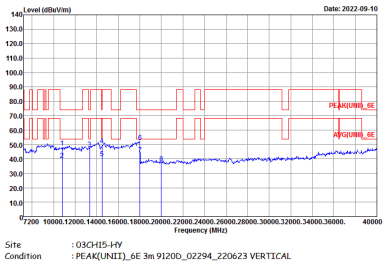
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH135 6625MHz	
9+8	Horizontal	Vertical
Peak Avg.		

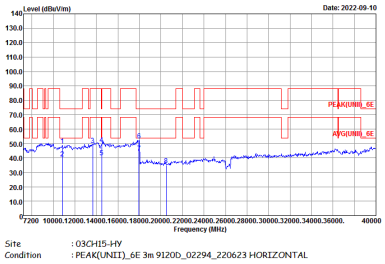
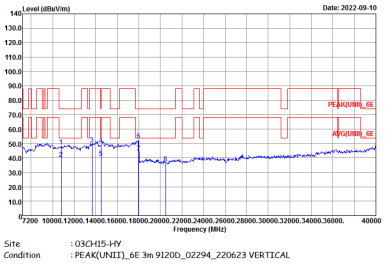
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH151 6705MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH183 6865MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz

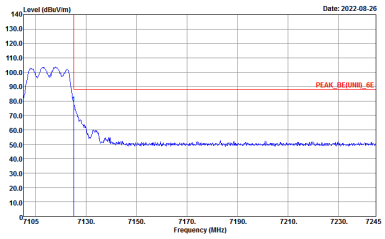
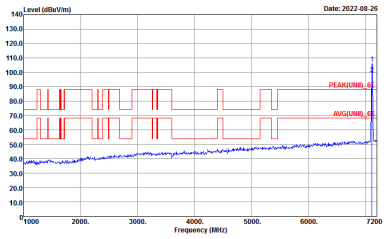
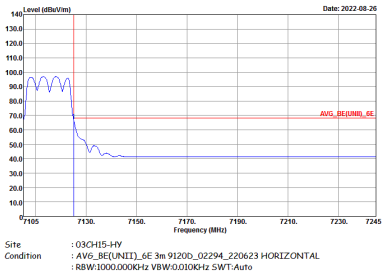
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

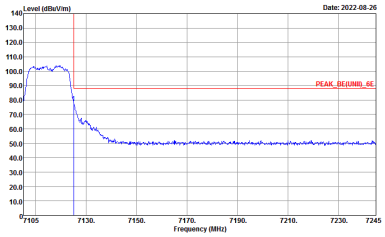
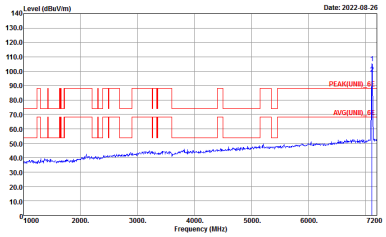
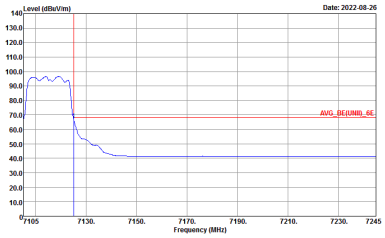
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH143 6665MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH175 6825MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

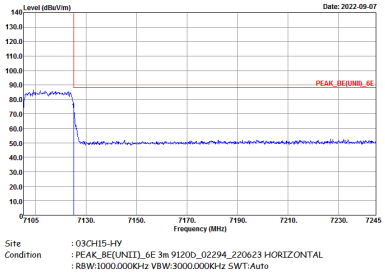
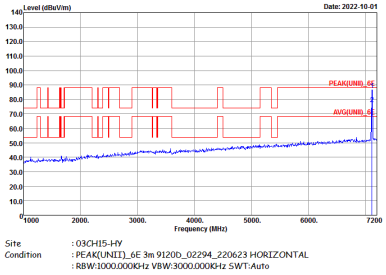
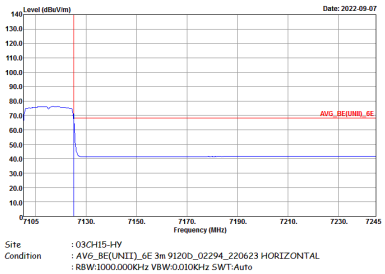
WIFI 802.11a (Band Edge @ 3m)

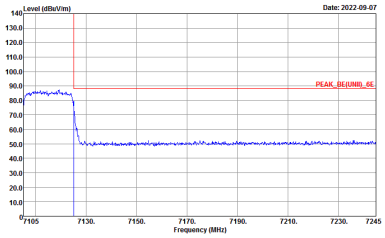
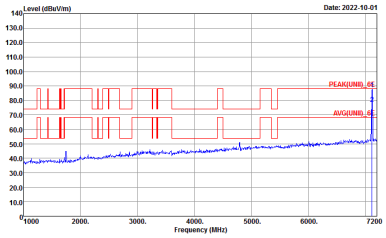
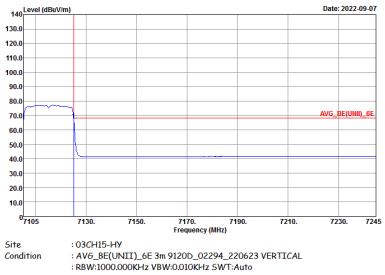
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11a CH233 7125MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11a CH233 7125MHz	
9+8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 8 - 6875~7125MHz

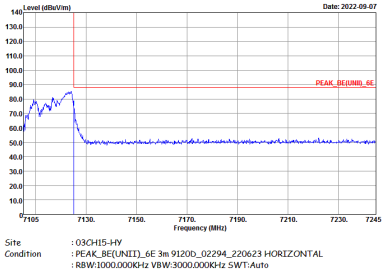
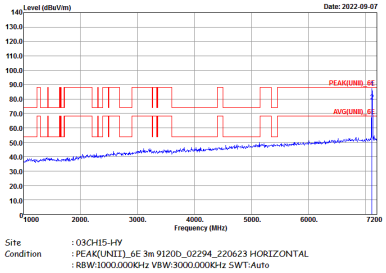
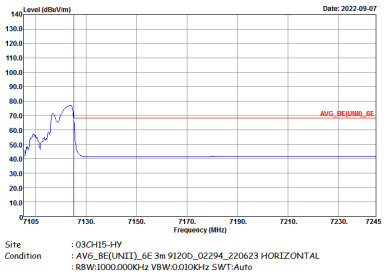
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

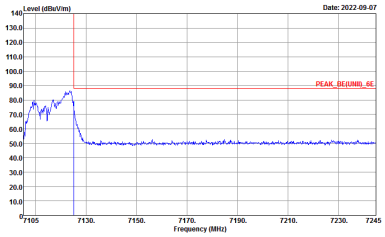
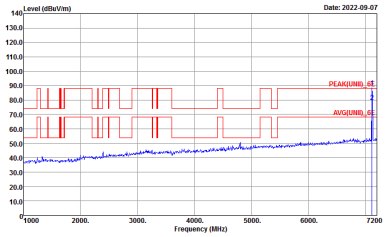
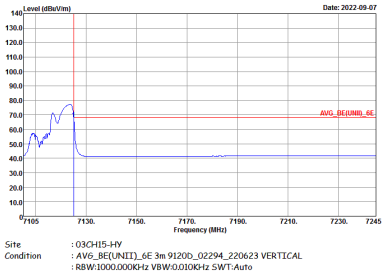
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH233 7125MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH233 7125MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

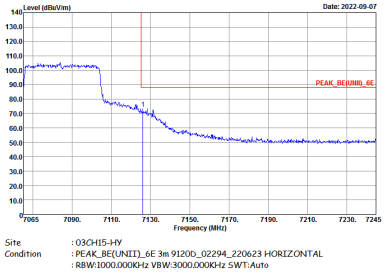
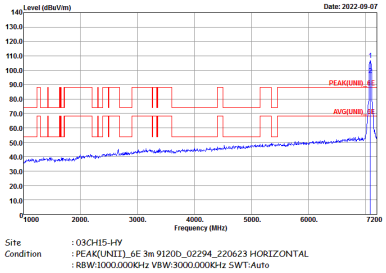
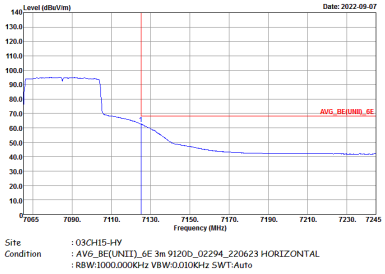
Band 8 - 6875~7125MHz

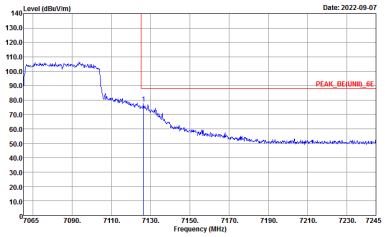
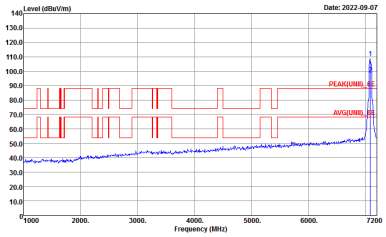
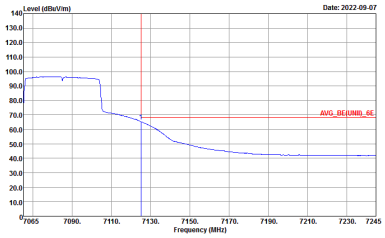
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH233 7125MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH233 7125MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

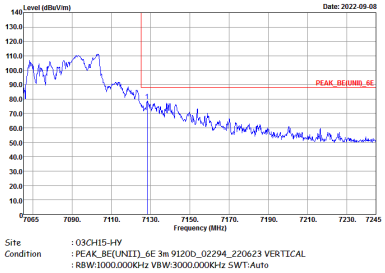
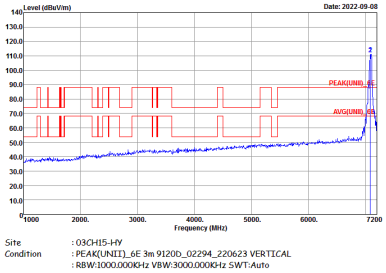
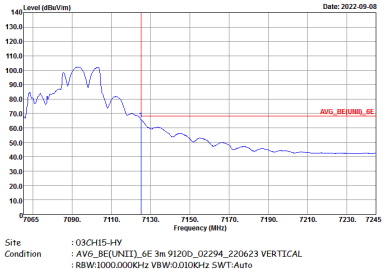
Band 8 - 6875~7125MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

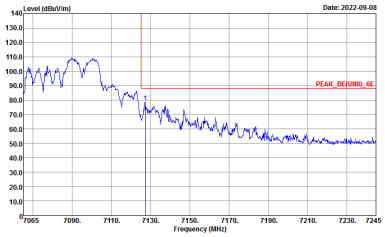
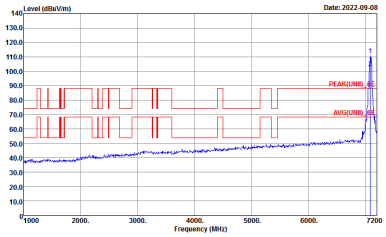
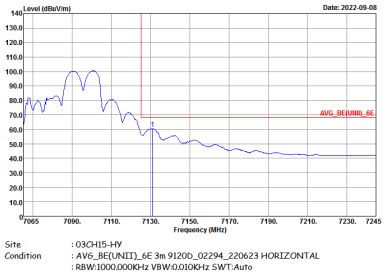
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 8 - 6875~7125MHz

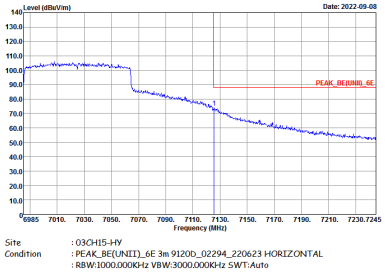
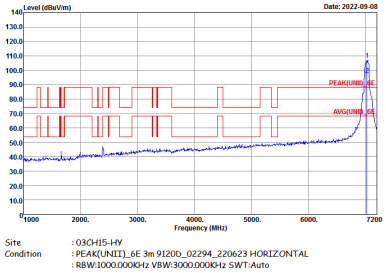
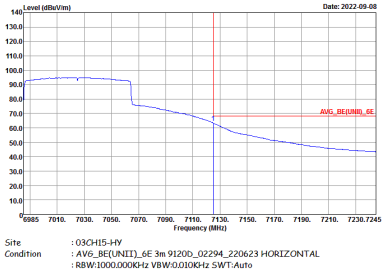
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

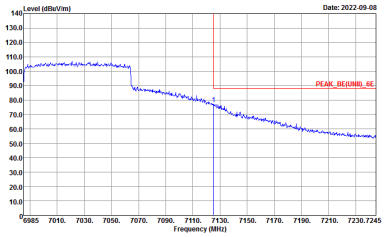
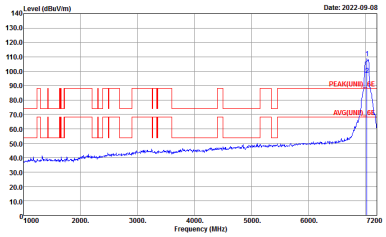
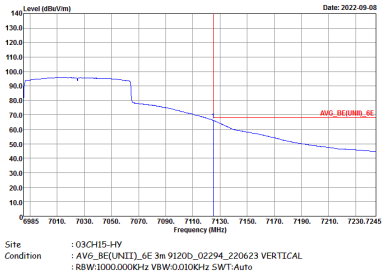
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH227 7085MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH227 7085MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 8 - 6875~7125MHz

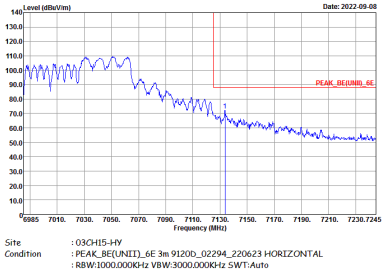
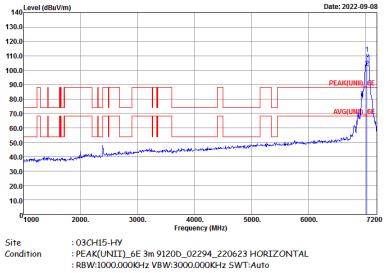
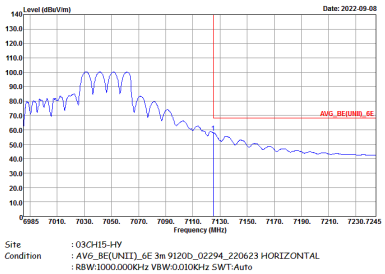
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

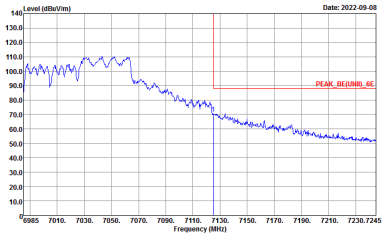
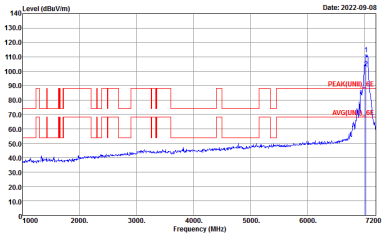
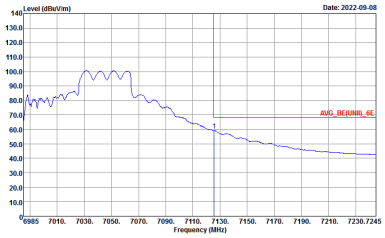
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 8 - 6875~7125MHz

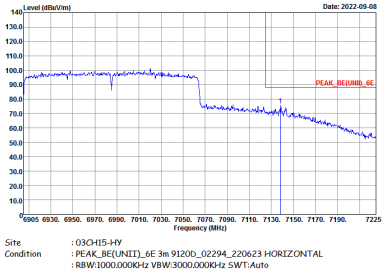
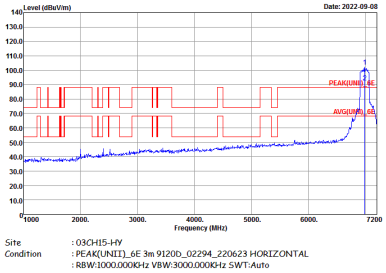
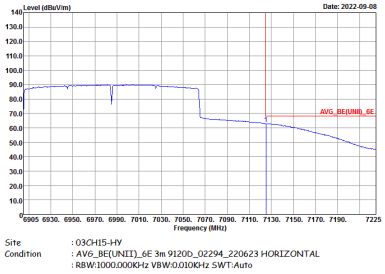
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

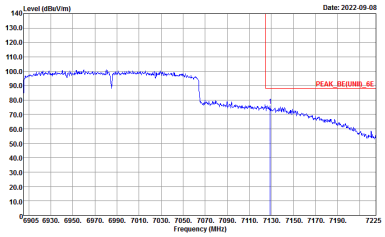
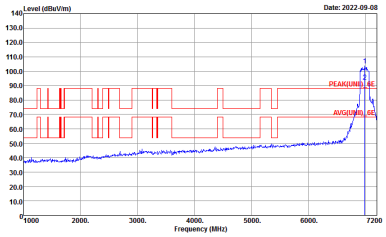
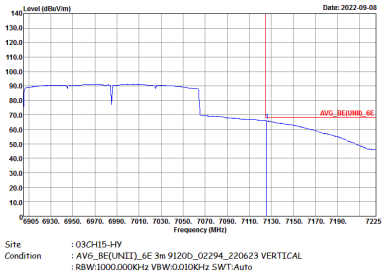
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH215 7025MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH215 7025MHz	
9+8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 8 - 6875~7125MHz

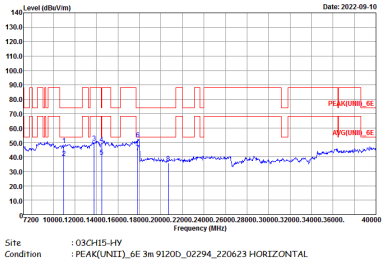
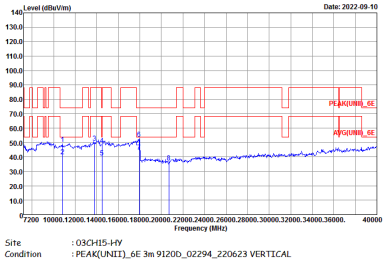
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

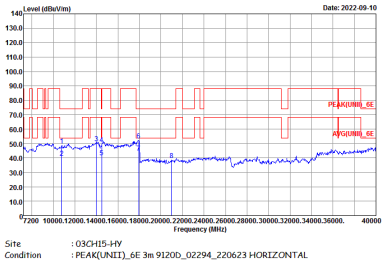
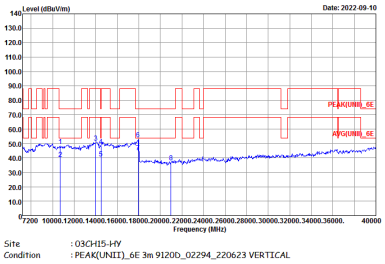
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

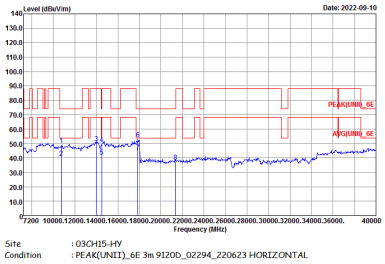
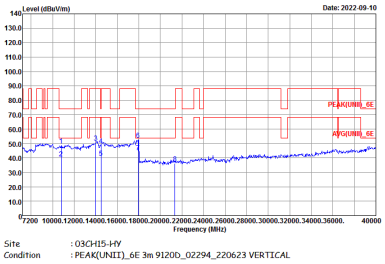
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 8 - 6875~7125MHz

WIFI 802.11a (Harmonic @ 3m)

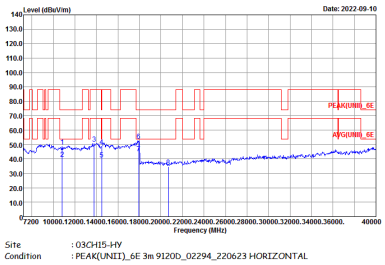
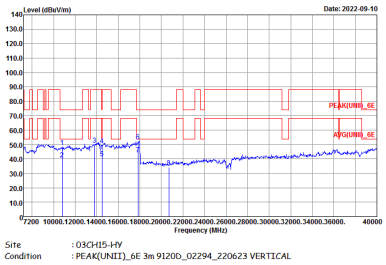
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11a CH189 6895MHz	
9+8	Horizontal	Vertical
Peak Avg.		

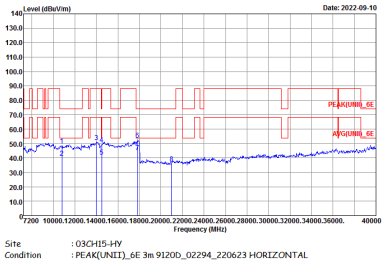
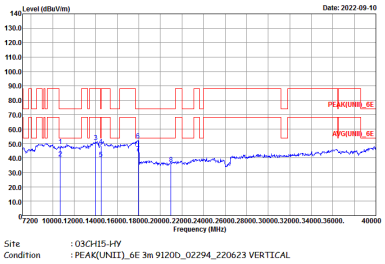
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11a CH209 6995MHz	
9+8	Horizontal	Vertical
Peak Avg.		

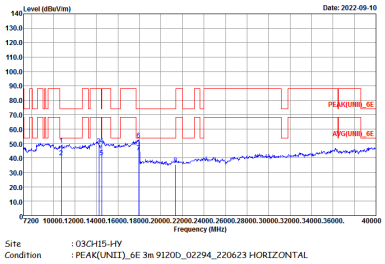
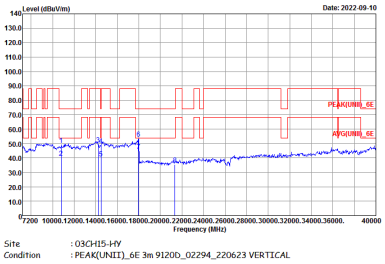
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11a CH233 7125MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

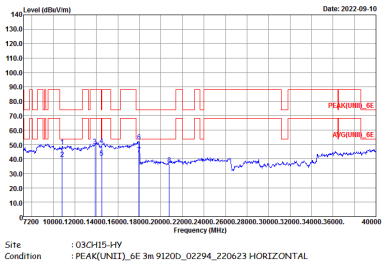
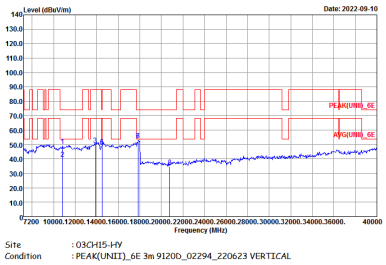
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH189 6895MHz	
9+8	Horizontal	Vertical
Peak Avg.		

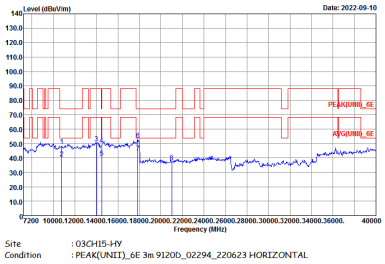
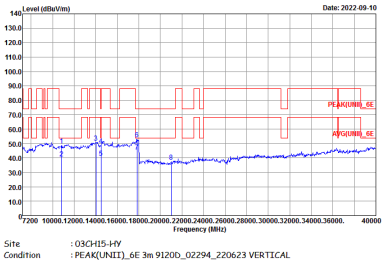
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH209 6995MHz	
9+8	Horizontal	Vertical
Peak Avg.		

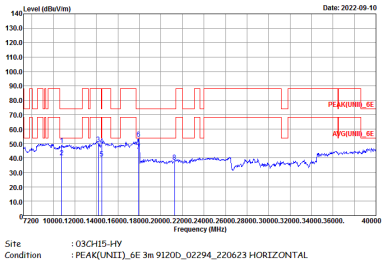
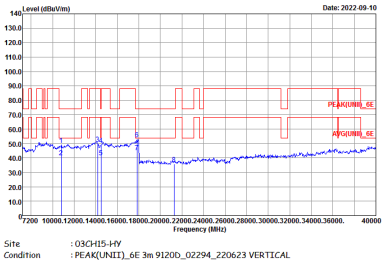
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH233 7125MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

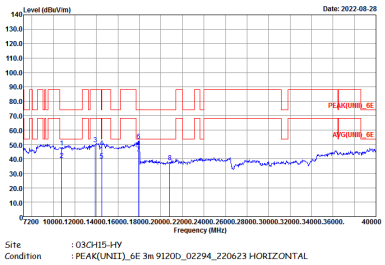
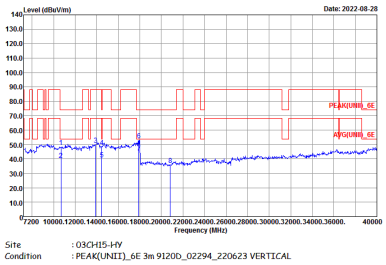
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH195 6925MHz	
9+8	Horizontal	Vertical
Peak Avg.		

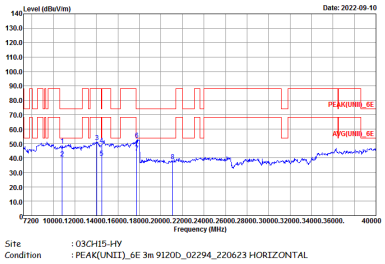
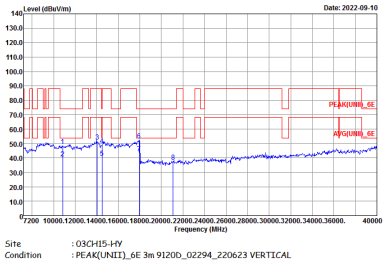
WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH211 7005MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

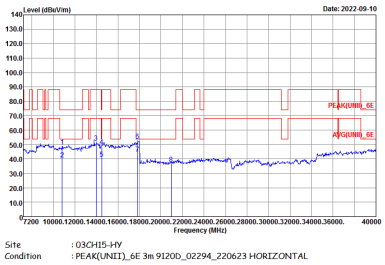
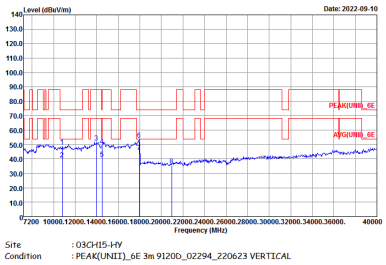
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH199 6945MHz	
9+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
9+8	Horizontal	Vertical
Peak Avg.		

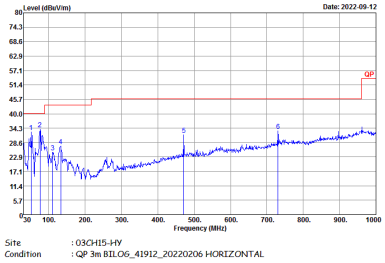
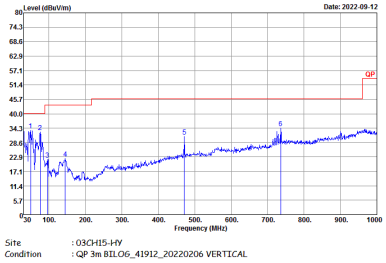
Band 8 - 6875~7125MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

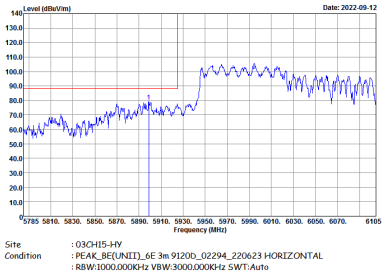
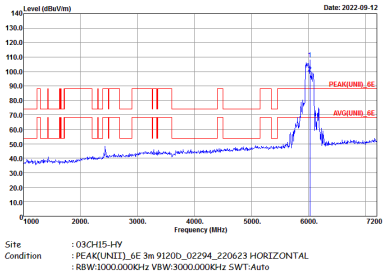
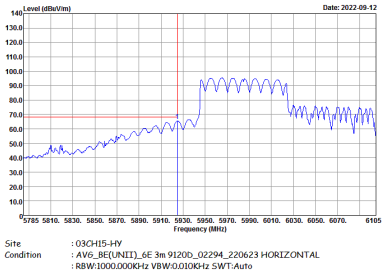
5GHz WIFI 802.11ax HE20 Partial 106 (LF)

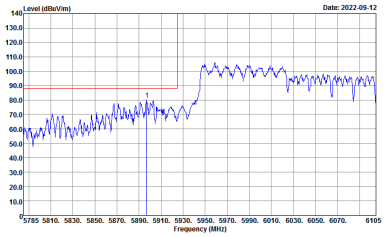
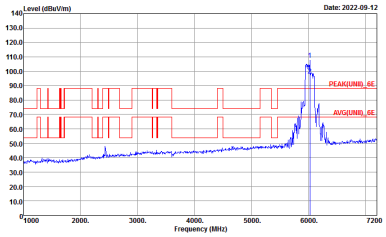
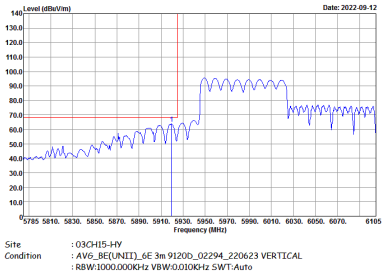
WIFI	5GHz WIFI	
ANT	WIFI 802.11ax HE20 Partial 106 LF	
9+8	Horizontal	Vertical
QP / Peak		

<Sample 1>

Band 5 - 5925~6425MHz

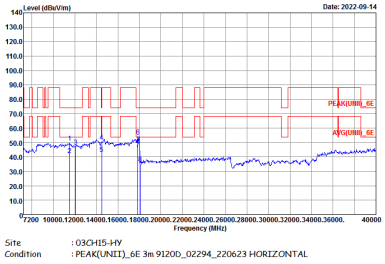
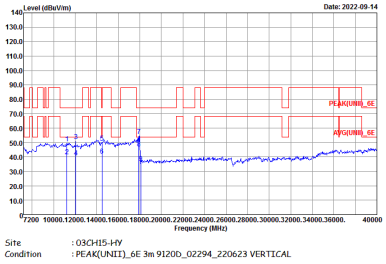
WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

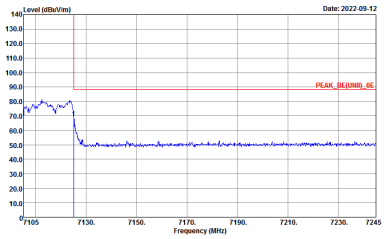
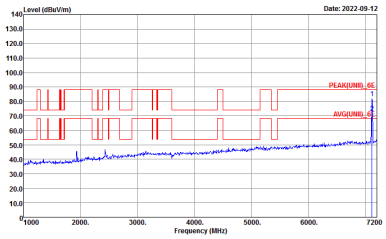
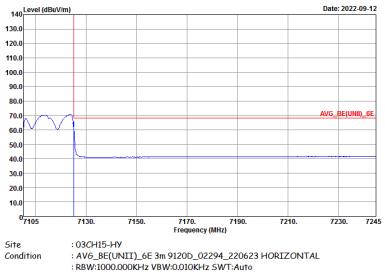
Band 5 - 5925~6425MHz

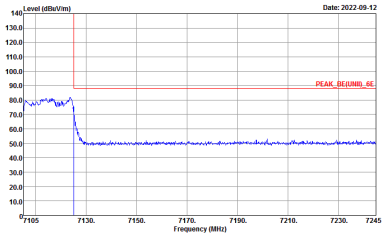
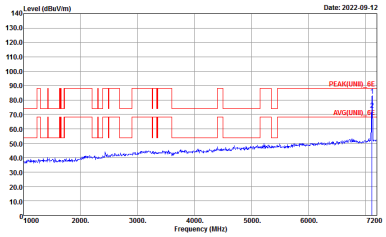
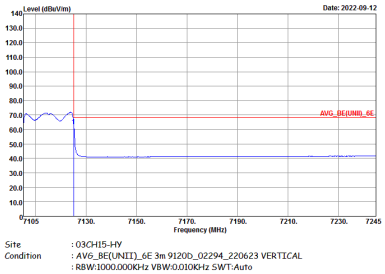
WIFI 802.11ax HE160 Partial 996 (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

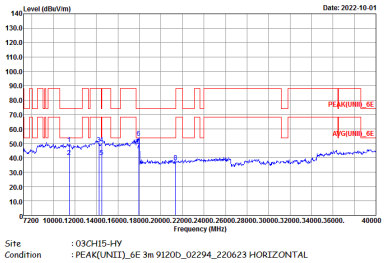
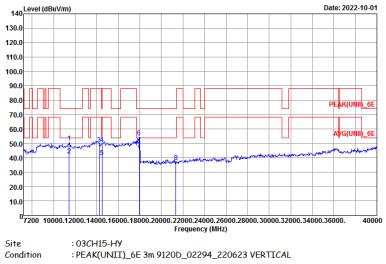
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH233 7125MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH233 7125MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Partial 106 (Harmonic @ 3m)

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH233 7125MHz	
9+8	Horizontal	Vertical
Peak Avg.		

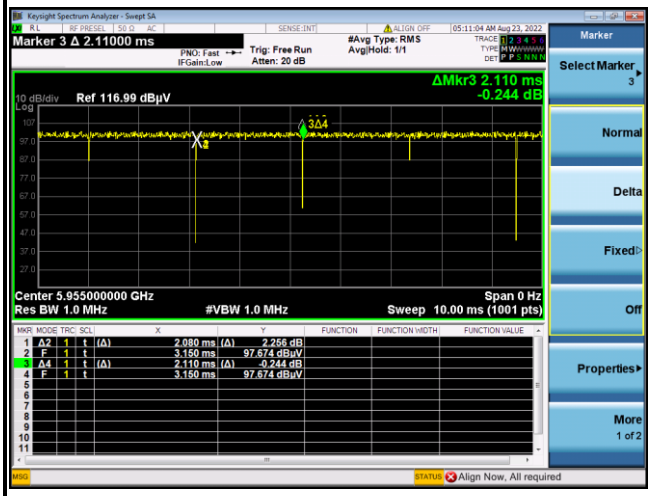
Appendix E. Duty Cycle Plots

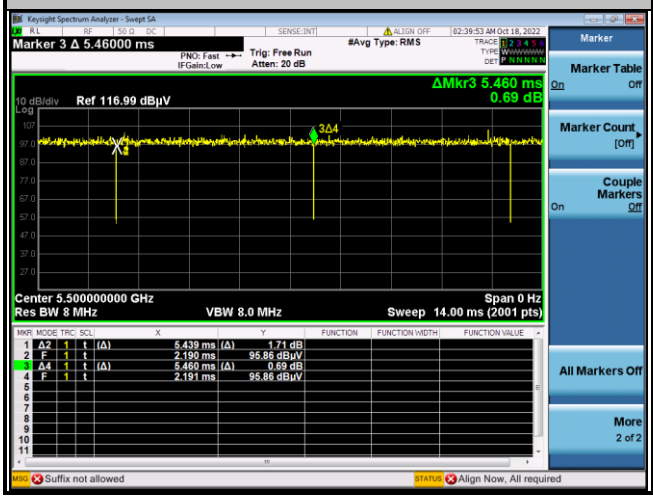
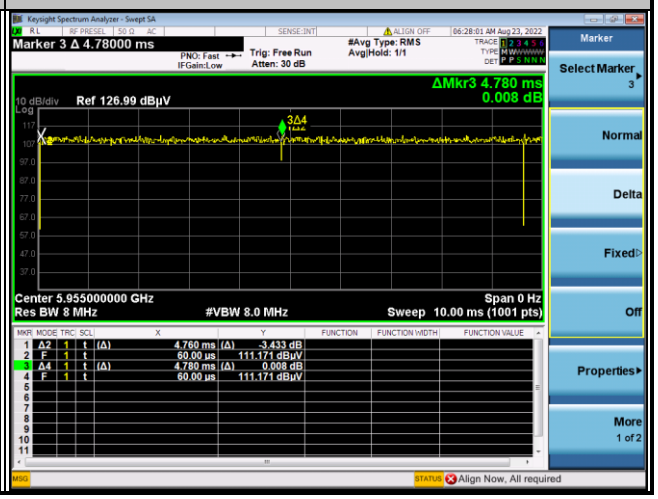
<SDM Mode>

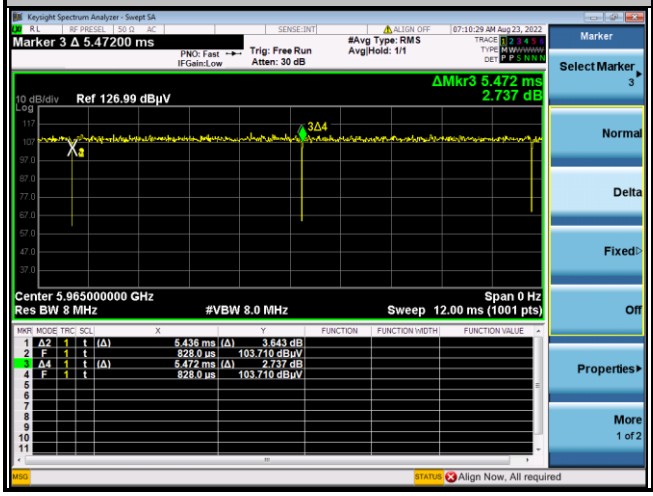
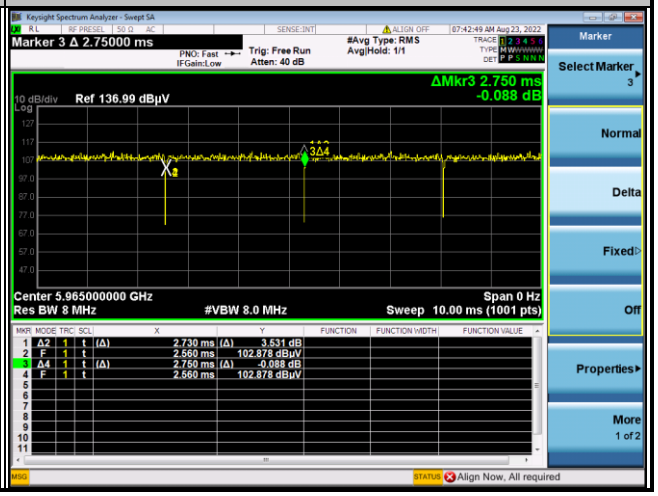
<Sample 2>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
9+8	802.11a	98.58	-	-	10Hz
9+8	6GHz 802.11ax HE20 Full RU	99.56	-	-	10Hz
9+8	6GHz 802.11ax HE20 106 RU	99.58	-	-	10Hz
9+8	6GHz 802.11ax HE40 Full RU	99.34	-	-	10Hz
9+8	6GHz 802.11ax HE40 242 RU	99.27	-	-	10Hz
9+8	6GHz 802.11ax HE80 Full RU	99.12	-	-	10Hz
9+8	6GHz 802.11ax HE80 484 RU	98.94	-	-	10Hz
9+8	6GHz 802.11ax HE160 Full RU	100.00	-	-	10Hz
9+8	6GHz 802.11ax HE160 996 RU	98.91	-	-	10Hz

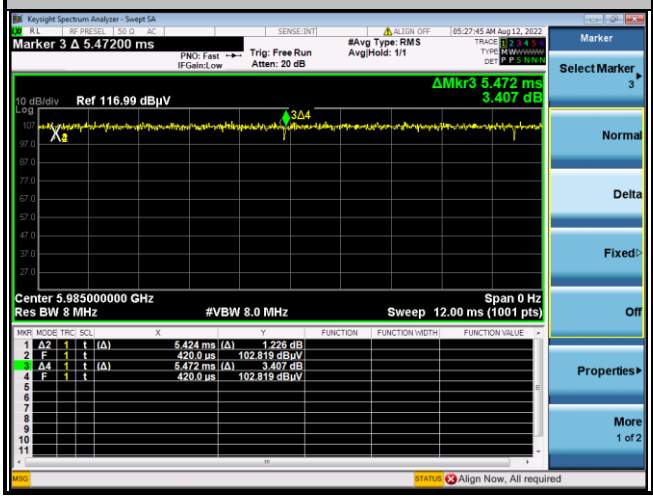
MIMO <Ant. 9+8>

802.11a	-
	-

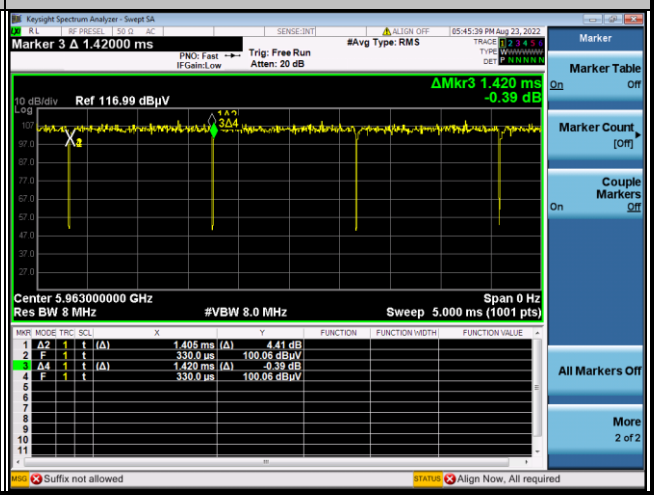
802.11ax HE20 Full RU	802.11ax HE20 106 RU
	

802.11ax HE40 Full RU	802.11ax HE40 242 RU
	

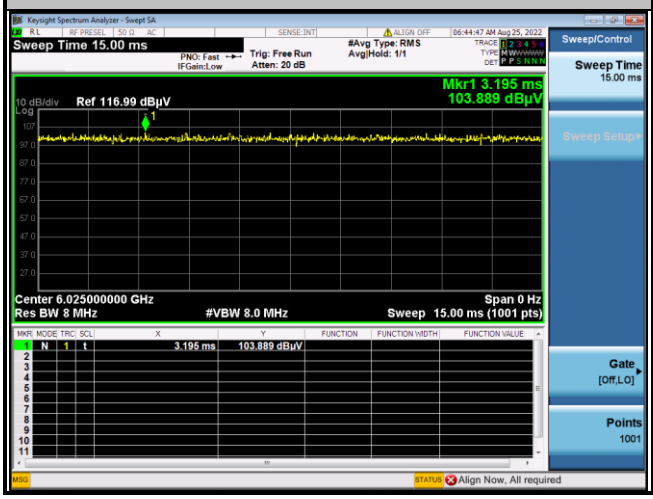
802.11ax HE80 Full RU



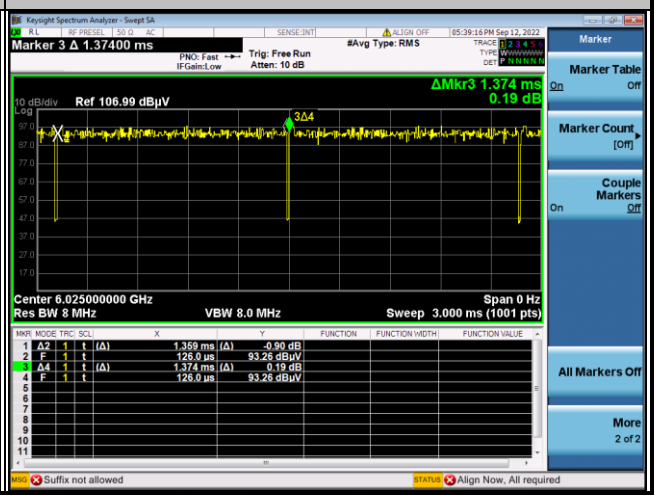
802.11ax HE80 484 RU



802.11ax HE160 Full RU



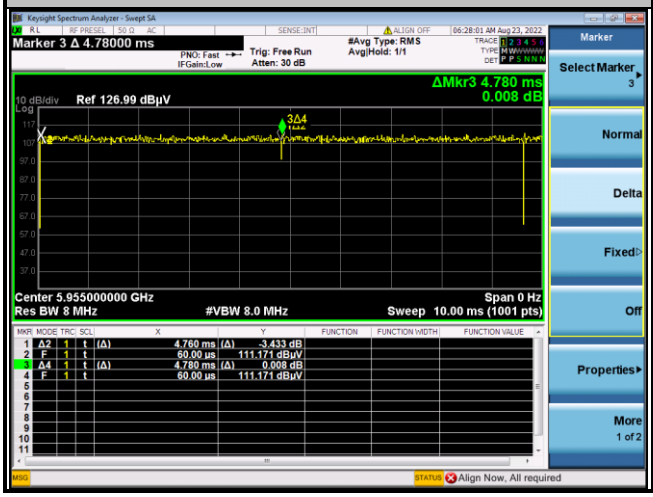
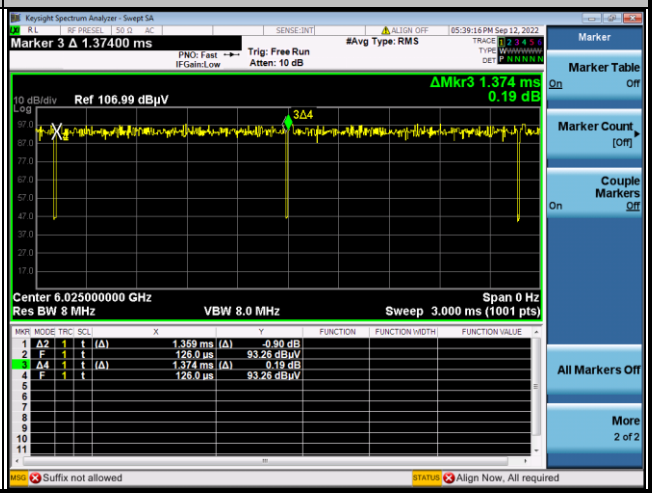
802.11ax HE160 996 RU



<Sample 1>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
9+8	6GHz 802.11ax HE20 106 RU	99.58	-	-	10Hz
9+8	6GHz 802.11ax HE160 996 RU	98.91	-	-	10Hz

802.11ax HE20 106 RU



802.11ax HE160 996 RU