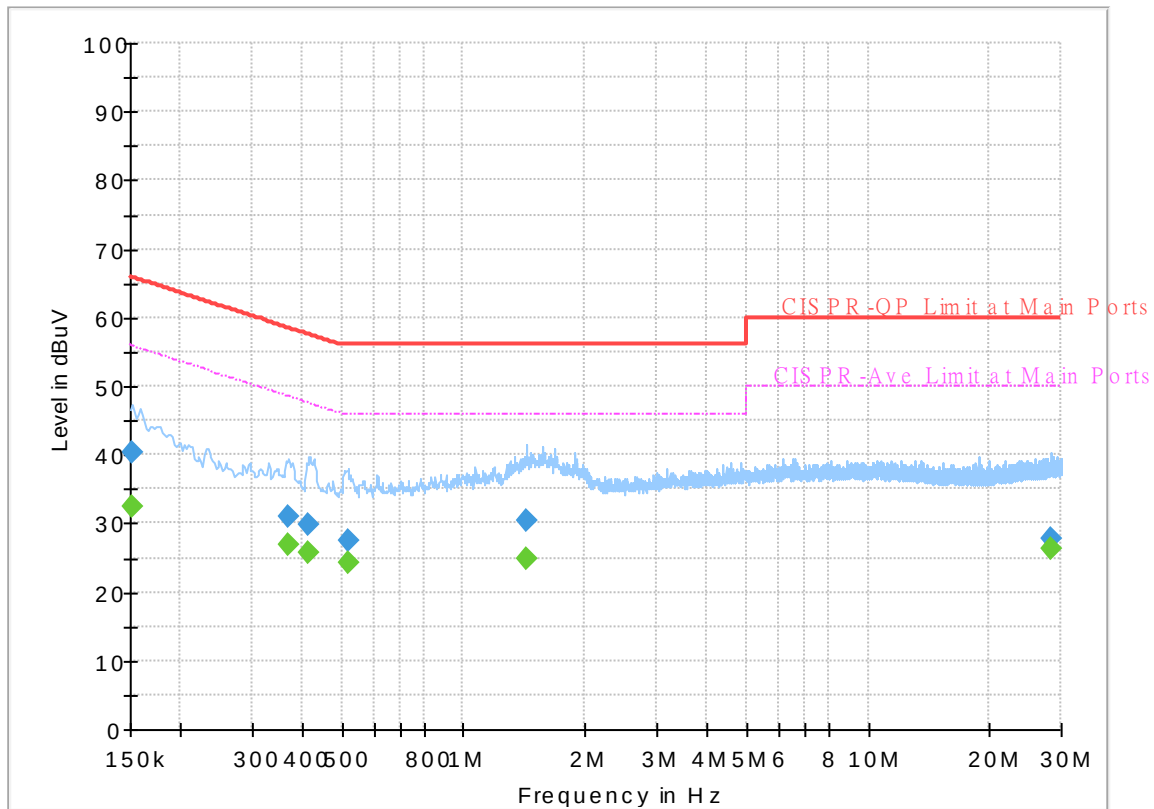


EUT Information

Report NO : 1O2843-06
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.41	55.88	23.47	N	OFF	19.6
0.152250	40.41	---	65.88	25.47	N	OFF	19.6
0.370500	---	26.84	48.49	21.65	N	OFF	19.6
0.370500	30.89	---	58.49	27.60	N	OFF	19.6
0.415500	---	25.68	47.54	21.86	N	OFF	19.6
0.415500	29.69	---	57.54	27.85	N	OFF	19.6
0.519000	---	24.36	46.00	21.64	N	OFF	19.6
0.519000	27.56	---	56.00	28.44	N	OFF	19.6
1.430250	---	24.94	46.00	21.06	N	OFF	19.7
1.430250	30.33	---	56.00	25.67	N	OFF	19.7
28.369500	---	26.25	50.00	23.75	N	OFF	20.8
28.369500	27.86	---	60.00	32.14	N	OFF	20.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	20~26.7°C
		Relative Humidity :	49~61.1%

Band 5 - 5925~6425MHz

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

WIFI Ant. 4+3	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 Full CH 01 5955MHz		5888.14	50.55	-37.65	88.2	38.08	35.2	12.46	35.19	100	302	P	H
		5924.68	42.05	-26.15	68.2	29.59	35.15	12.51	35.2	100	302	A	H
	*	5955	95.66	-	-	83.21	35.1	12.55	35.2	100	302	P	H
	*	5955	85.95	-	-	73.5	35.1	12.55	35.2	100	302	A	H
													H
													H
		5907.88	50.96	-37.24	88.2	38.48	35.18	12.49	35.19	324	26	P	V
		5921.32	42.04	-26.16	68.2	29.57	35.16	12.51	35.2	324	26	A	V
	*	5955	96.47	-	-	84.02	35.1	12.55	35.2	324	26	P	V
	*	5955	87.48	-	-	75.03	35.1	12.55	35.2	324	26	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (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.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full CH 03 5965MHz		5871.42	51.4	-36.8	88.2	38.96	35.2	12.43	35.19	100	302	P	H
		5914.44	42.55	-25.65	68.2	30.08	35.17	12.5	35.2	100	302	A	H
	*	5965	96.85	-	-	84.39	35.1	12.57	35.21	100	302	P	H
	*	5965	87.28	-	-	74.82	35.1	12.57	35.21	100	302	A	H
													H
													H
		5924.7	51.34	-36.86	88.2	38.88	35.15	12.51	35.2	339	27	P	V
		5920.02	42.42	-25.78	68.2	29.96	35.16	12.5	35.2	339	27	A	V
	*	5965	97.21	-	-	84.75	35.1	12.57	35.21	339	27	P	V
	*	5965	87.49	-	-	75.03	35.1	12.57	35.21	339	27	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full CH 07 5985MHz		5919.72	51.99	-36.21	88.2	39.53	35.16	12.5	35.2	100	302	P	H
		5924.36	44.28	-23.92	68.2	31.82	35.15	12.51	35.2	100	302	A	H
	*	5985	96.26	-	-	83.77	35.1	12.6	35.21	100	302	P	H
	*	5985	87.06	-	-	74.57	35.1	12.6	35.21	100	302	A	H
													H
													H
		5913.32	52.14	-36.06	88.2	39.68	35.17	12.49	35.2	273	25	P	V
		5912.04	43.78	-24.42	68.2	31.31	35.18	12.49	35.2	273	25	A	V
	*	5985	96.06	-	-	83.57	35.1	12.6	35.21	273	25	P	V
	*	5985	87.22	-	-	74.73	35.1	12.6	35.21	273	25	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

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

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 15 6025MHz		5913.64	55.31	-32.89	88.2	42.85	35.17	12.49	35.2	100	304	P	H
		5921	46.08	-22.12	68.2	33.61	35.16	12.51	35.2	100	304	A	H
	*	6025	94.97	-	-	82.44	35.1	12.65	35.22	100	304	P	H
	*	6025	86.97	-	-	74.44	35.1	12.65	35.22	100	304	A	H
													H
													H
		5923.24	56.46	-31.74	88.2	44	35.15	12.51	35.2	316	23	P	V
		5911.08	45.14	-23.06	68.2	32.67	35.18	12.49	35.2	316	23	A	V
	*	6025	94.82	-	-	82.29	35.1	12.65	35.22	316	23	P	V
	*	6025	87.04	-	-	74.51	35.1	12.65	35.22	316	23	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 15 6025MHz		12050	41.04	-32.96	74	39.87	38.8	19.1	56.73	-	-	P	H
		14496	46.23	-27.77	74	43.33	39.59	21.4	58.09	-	-	P	H
		15888	47.1	-26.9	74	40.96	40.88	22.19	56.93	-	-	P	H
		17728	49.18	-24.82	74	40.29	41.53	23.5	56.14	-	-	P	H
		17728	39.52	-14.48	54	30.63	41.53	23.5	56.14	-	-	A	H
		18075	35.78	-38.22	74	51.63	37.54	6.22	59.61	-	-	P	H
													H
													H
													H
													H
													H
													H
		12050	42.1	-31.9	74	40.93	38.8	19.1	56.73	-	-	P	V
		14496	45.31	-28.69	74	42.41	39.59	21.4	58.09	-	-	P	V
		15896	46.48	-27.52	74	40.31	40.89	22.2	56.92	-	-	P	V
		17920	48.5	-25.5	74	39.47	41.42	23.64	56.03	-	-	P	V
		17920	39.59	-14.41	54	30.56	41.42	23.64	56.03	-	-	A	V
		18075	33.97	-40.03	74	49.82	37.54	6.22	59.61	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]



WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 79 6345MHz		12690	43.49	-30.51	74	41.96	39.19	19.71	57.37	-	-	P	H
		14496	47.31	-26.69	74	44.41	39.59	21.4	58.09	-	-	P	H
		16080	47.12	-26.88	74	40.45	41.16	22.31	56.8	-	-	P	H
		17920	49.33	-24.67	74	40.3	41.42	23.64	56.03	-	-	P	H
		17920	39.69	-14.31	54	30.66	41.42	23.64	56.03	-	-	A	H
		19035	35.54	-38.46	74	50.88	37.82	6.64	59.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax HE160 Full CH 79 6345MHz		12690	44.94	-29.06	74	43.41	39.19	19.71	57.37	-	-	P	V
		14480	45.06	-28.94	74	42.2	39.56	21.39	58.09	-	-	P	V
		16168	47.06	-26.94	74	40.26	41.2	22.37	56.77	-	-	P	V
		17928	48.96	-25.04	74	39.91	41.43	23.64	56.02	-	-	P	V
		17928	39.58	-14.42	54	30.53	41.43	23.64	56.02	-	-	A	V
		19035	34.82	-39.18	74	50.16	37.82	6.64	59.8	-	-	P	V
													V
													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.												

Band 6 6425~6525MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 111 6505MHz		13010	43.54	-44.66	88.2	42.47	39.18	20.01	58.12	-	-	P	H
		14488	45.44	-28.56	74	42.56	39.58	21.39	58.09	-	-	P	H
		15872	46.89	-27.11	74	40.8	40.84	22.19	56.94	-	-	P	H
		17760	49.4	-24.6	74	40.45	41.56	23.51	56.12	-	-	P	H
		17760	39.49	-14.51	54	30.54	41.56	23.51	56.12	-	-	A	H
		19515	35.67	-38.33	74	51.11	37.51	6.85	59.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													V
													V
													V
													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.												



Band 7 - 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 143 6665MHz		13330	44.33	-29.67	74	43.03	39.14	20.37	58.21	-	-	P	H
		14488	46.43	-27.57	74	43.55	39.58	21.39	58.09	-	-	P	H
		15976	46.86	-27.14	74	40.48	40.98	22.25	56.85	-	-	P	H
		17784	49.78	-24.22	74	40.78	41.58	23.53	56.11	-	-	P	H
		17784	39.41	-14.59	54	30.41	41.58	23.53	56.11	-	-	A	H
		19995	34.53	-39.47	74	49.77	37.6	7.06	59.9	-	-	P	H
													H
													H
													H
													H
													H
													H
		13330	43.9	-30.1	74	42.6	39.14	20.37	58.21	-	-	P	V
		14488	46.68	-27.32	74	43.8	39.58	21.39	58.09	-	-	P	V
		15784	46.3	-27.7	74	40.54	40.65	22.13	57.02	-	-	P	V
		17776	49.15	-24.85	74	40.15	41.58	23.53	56.11	-	-	P	V
		17776	39.48	-14.52	54	30.48	41.58	23.53	56.11	-	-	A	V
		19995	34.56	-39.44	74	49.8	37.6	7.06	59.9	-	-	P	V
													V
													V
													V
													V
													V
													V

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 175 6825MHz		13320	44.56	-29.44	74	43.25	39.16	20.36	58.21	-	-	P	H
		13650	43.58	-44.62	88.2	42.33	38.75	20.74	58.24	-	-	P	H
		14496	45.68	-28.32	74	42.78	39.59	21.4	58.09	-	-	P	H
		17816	49.14	-24.86	74	40.1	41.57	23.56	56.09	-	-	P	H
		17816	39.38	-14.62	54	30.34	41.57	23.56	56.09	-	-	A	H
		20475	35.61	-38.39	74	50.47	37.87	7.26	59.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		13250	44.42	-29.58	74	43.27	39.05	20.29	58.19	-	-	P	V
		13650	42.51	-45.69	88.2	41.26	38.75	20.74	58.24	-	-	P	V
		14488	46.13	-27.87	74	43.25	39.58	21.39	58.09	-	-	P	V
		17816	48.94	-25.06	74	39.9	41.57	23.56	56.09	-	-	P	V
		17816	39.14	-14.86	54	30.1	41.57	23.56	56.09	-	-	A	V
		20475	35.69	-38.31	74	50.55	37.87	7.26	59.99	-	-	P	V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Full (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.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 229 7095MHz	*	7095	95.19	-	-	81.26	35.61	13.76	35.44	100	321	P	H
	*	7095	86.77	-	-	72.84	35.61	13.76	35.44	100	321	A	H
		7240.2	51.82	-36.38	88.2	37.86	35.48	13.94	35.46	100	321	P	H
		7225.64	43.3	-24.9	68.2	29.38	35.45	13.92	35.45	100	321	A	H
													H
													H
	*	7095	94.02	-	-	80.09	35.61	13.76	35.44	342	13	P	V
	*	7095	86.4	-	-	72.47	35.61	13.76	35.44	342	13	A	V
		7127.88	51.98	-36.22	88.2	38.13	35.49	13.8	35.44	342	13	P	V
		7221	43.43	-24.77	68.2	29.53	35.44	13.91	35.45	342	13	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full CH 227 7085MHz	*	7085	94.54	-	-	80.6	35.63	13.75	35.44	100	316	P	H
	*	7085	85.61	-	-	71.67	35.63	13.75	35.44	100	316	A	H
		7171.56	52.8	-35.4	88.2	38.99	35.4	13.86	35.45	100	316	P	H
		7232.4	43.63	-24.57	68.2	29.69	35.46	13.93	35.45	100	316	A	H
													H
													H
	*	7085	95.16	-	-	81.22	35.63	13.75	35.44	325	13	P	V
	*	7085	86.7	-	-	72.76	35.63	13.75	35.44	325	13	A	V
		7232.94	52.87	-35.33	88.2	38.92	35.47	13.93	35.45	325	13	P	V
		7237.08	43.63	-24.57	68.2	29.69	35.47	13.93	35.46	325	13	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full CH 215 7025MHz	*	7025	93.8	-	-	79.75	35.8	13.68	35.43	100	320	P	H
	*	7025	85.97	-	-	71.92	35.8	13.68	35.43	100	320	A	H
		7128.84	51.93	-36.27	88.2	38.09	35.48	13.8	35.44	100	320	P	H
		7142.76	43.89	-24.31	68.2	30.08	35.43	13.82	35.44	100	320	A	H
													H
													H
	*	7025	94.08	-	-	80.03	35.8	13.68	35.43	297	25	P	V
	*	7025	86.48	-	-	72.43	35.8	13.68	35.43	297	25	A	V
		7129	51.23	-36.97	88.2	37.39	35.48	13.8	35.44	297	25	P	V
		7143.08	43.81	-24.39	68.2	30	35.43	13.82	35.44	297	25	A	V
													V
													V
	Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz

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

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 207 6985MHz	*	6985	93.69	-	-	79.58	35.9	13.64	35.43	100	315	P	H
	*	6985	85.85	-	-	71.74	35.9	13.64	35.43	100	315	A	H
		7136.68	61.28	-26.92	88.2	47.46	35.45	13.81	35.44	100	315	P	H
		7136.36	50.5	-17.7	68.2	36.68	35.45	13.81	35.44	100	315	A	H
													H
													H
	*	6985	94.25	-	-	80.14	35.9	13.64	35.43	344	13	P	V
	*	6985	87.31	-	-	73.2	35.9	13.64	35.43	344	13	A	V
		7139.56	58.01	-30.19	88.2	44.19	35.44	13.82	35.44	344	13	P	V
		7136.36	49.18	-19.02	68.2	35.36	35.45	13.81	35.44	344	13	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 207 6985MHz		13256	45.03	-28.97	74	43.86	39.07	20.29	58.19	-	-	P	H
		13970	44.3	-43.9	88.2	42.59	38.8	21.09	58.18	-	-	P	H
		14480	46.31	-27.69	74	43.45	39.56	21.39	58.09	-	-	P	H
		17904	49.83	-24.17	74	40.84	41.4	23.63	56.04	-	-	P	H
		17904	39.54	-14.46	54	30.55	41.4	23.63	56.04	-	-	A	H
		20948	34.94	-39.06	74	49.66	37.82	7.46	60	-	-	P	H
													H
													H
													H
													H
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Emission above 18GHz

WIFI 802.11ax HE160 Full (SHF @ 1m)

WIFI Ant. 4+3	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 Full SHF		39956	46.1	-27.9	74	44.98	44.6	14.81	58.29	-	-	P	H
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		40000	45.45	-28.55	74	44.22	44.6	14.83	58.2	-	-	P	V
													V
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Emission below 1GHz

WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ax HE160 Full LF		30	23.03	-16.97	40	27.56	24.57	1.01	30.11	-	-	P	H
		96.42	28.4	-15.1	43.5	41.15	15.48	1.75	29.98	-	-	P	H
		195.78	25.43	-18.07	43.5	37.88	14.89	2.5	29.84	-	-	P	H
		893.6	33	-13	46	27.77	28.65	5.42	28.84	-	-	P	H
		927.2	33.87	-12.13	46	27.97	29.11	5.51	28.72	-	-	P	H
		958	34.68	-11.32	46	27.02	30.71	5.58	28.63	-	-	P	H
													H
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													H
		30	33.34	-6.66	40	37.87	24.57	1.01	30.11	-	-	P	V
		35.13	30.55	-9.45	40	37.73	21.95	0.95	30.08	-	-	P	V
		91.02	25.93	-17.57	43.5	39.53	14.73	1.7	30.03	-	-	P	V
		803.3	30.98	-15.02	46	27.48	27.71	5.03	29.24	-	-	P	V
		862.8	32.78	-13.22	46	27.68	28.89	5.21	29	-	-	P	V
		941.9	33.95	-12.05	46	27.29	29.8	5.54	28.68	-	-	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.												



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	Peak or Average
H/V	Horizontal or Vertical



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

WIFI Ant. 4+3	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)
802.11a CH 01		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
5955MHz		5925	43.54	-24.66	68.2	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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5925MHz:

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. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -32.75(dB)

For Average Limit @ 5925MHz:

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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -24.66(dB)

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



Appendix D. Radiated Spurious Emission Plots

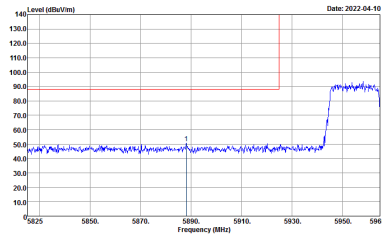
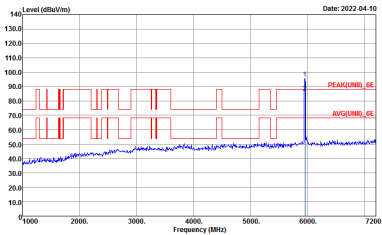
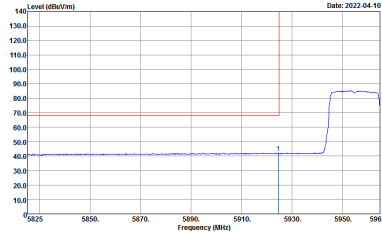
Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	20~26.7°C
		Relative Humidity :	49~61.1%

Note symbol

-L	Low channel location
-R	High channel location



Band 5 - 5925~6425MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

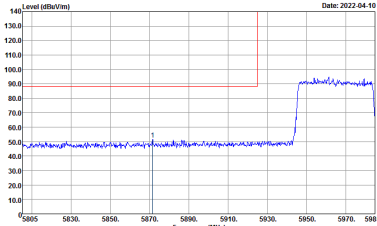
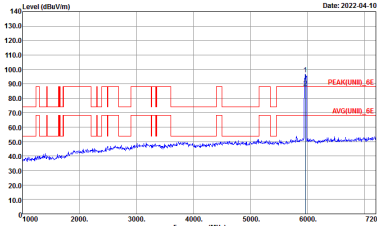
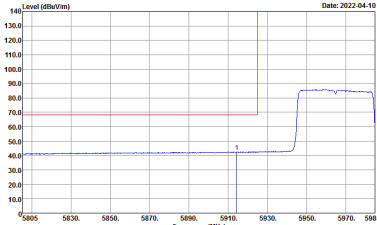
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank



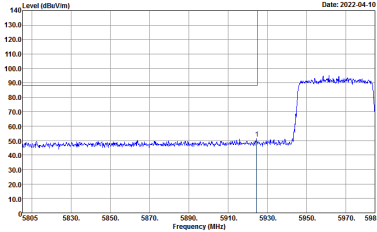
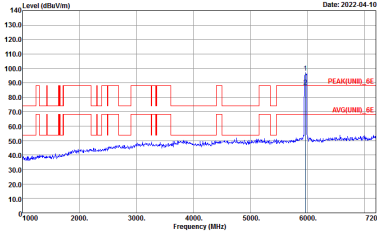
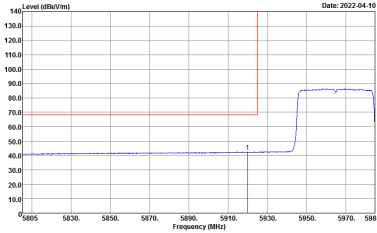
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : : PEAK_BE(UNIT)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH07-HY Condition : : PEAK(UNIT)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH07-HY Condition : : AVG_BE(UNIT)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank



Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

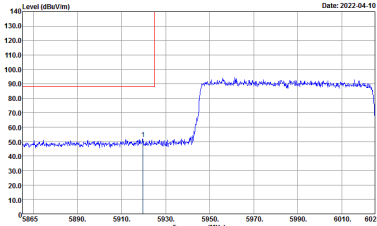
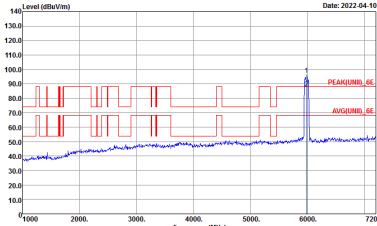
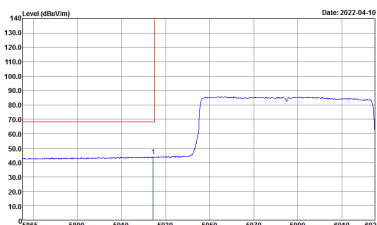
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWTAuto	Left blank



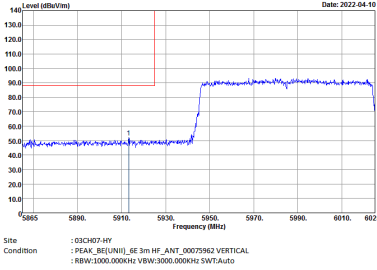
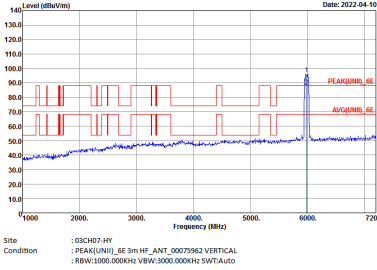
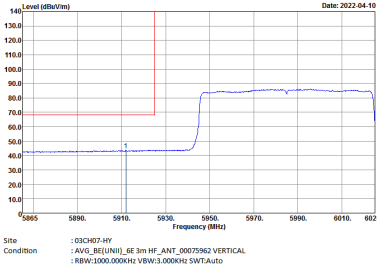
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank



Band 5 5925~6425MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

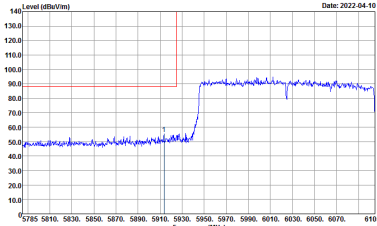
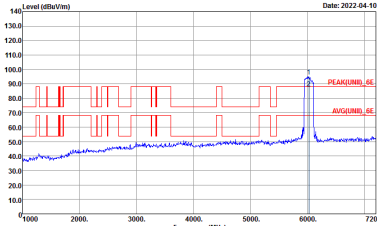
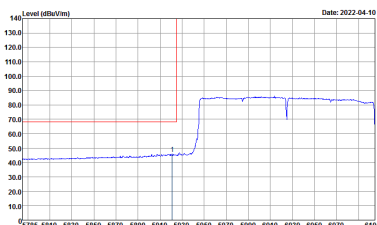
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWTAuto	Left blank



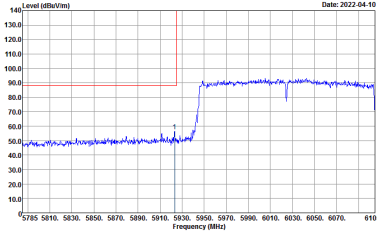
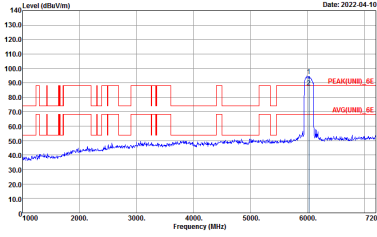
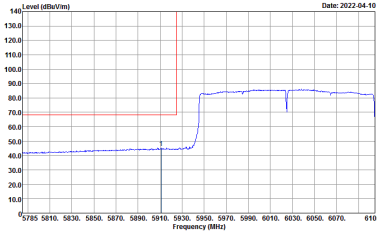
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNIT)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNIT)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE(UNIT)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank



Band 5 5925~6425MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

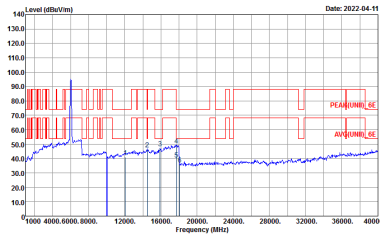
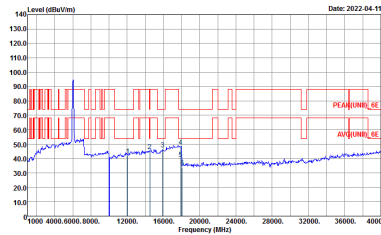
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_FUND[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE[UNII]_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWTAuto	Left blank



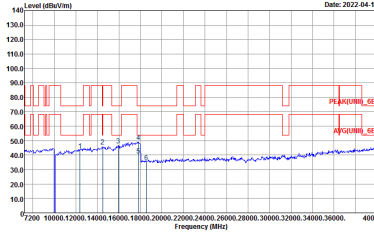
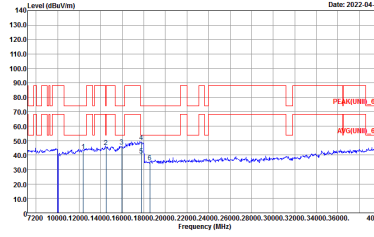
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(FUN1)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE(UNII)_6E 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



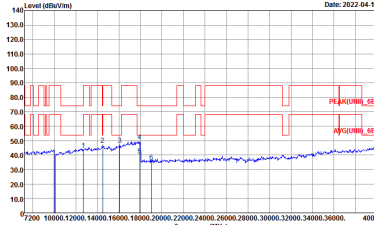
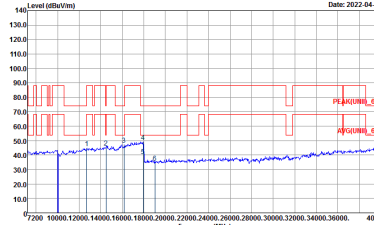
Band 5 - 5925~6425MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AV)01_6E 1m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(AV)01_6E 1m SHF-EHF_9170251 VERTICAL Detector : Peak



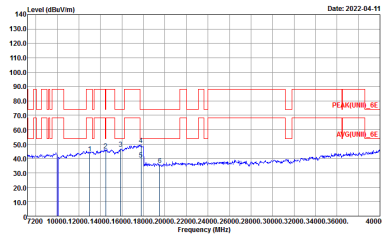
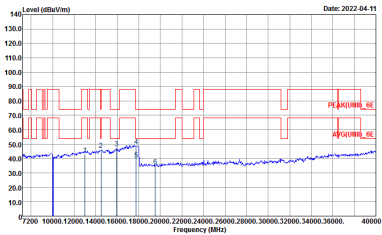
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAQUINII_6E 3m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAQUINII_6E 3m SHF-EHF_9170251 VERTICAL Detector : Peak



WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNW)_SE 3m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(UNW)_SE 3m SHF-EHF_9170251 VERTICAL Detector : Peak

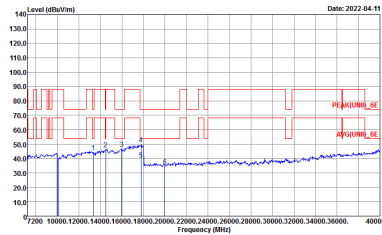
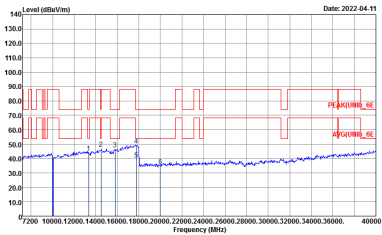


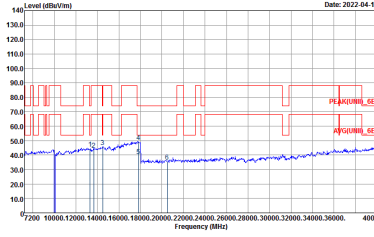
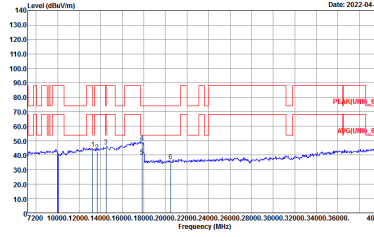
Band 6 - 6425~6525MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH111 6505MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AV)01_6E 1m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(AV)01_6E 1m SHF-EHF_9170251 VERTICAL Detector : Peak



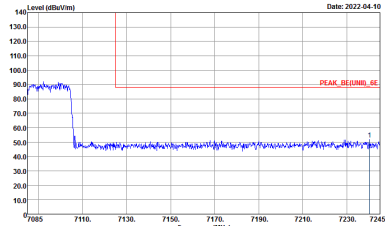
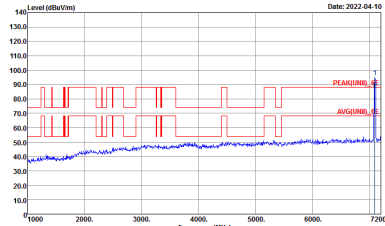
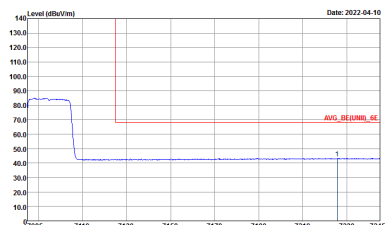
Band 7 - 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH143 6665MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AV)WIFI_6E 1m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(AV)WIFI_6E 1m SHF-EHF_9170251 VERTICAL Detector : Peak

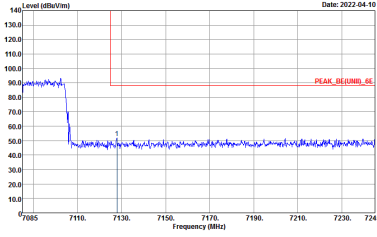
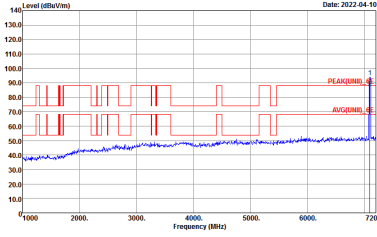
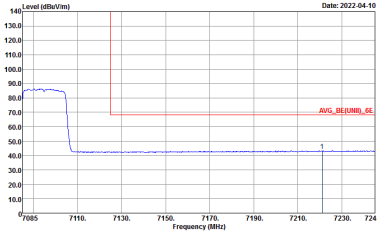
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH175 6825MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNW)_6E 3m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(UNW)_6E 3m SHF-EHF_9170251 VERTICAL Detector : Peak



Band 8 - 6875~7125MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

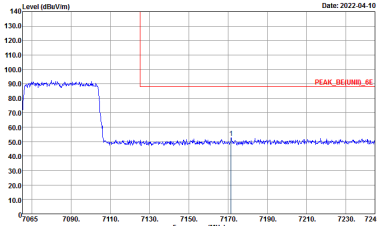
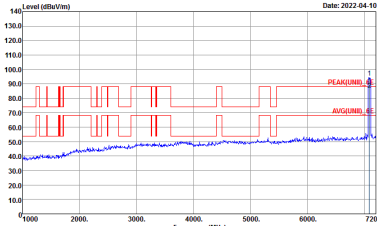
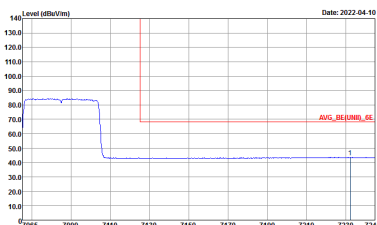
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII)_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_SE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank



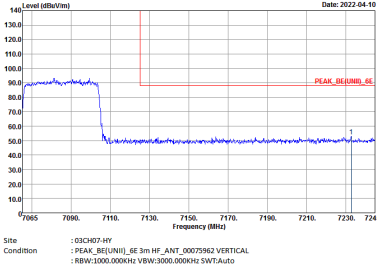
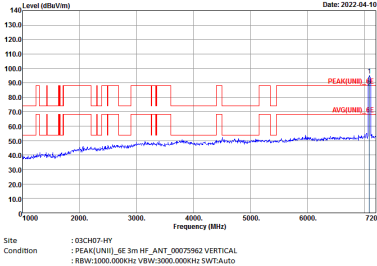
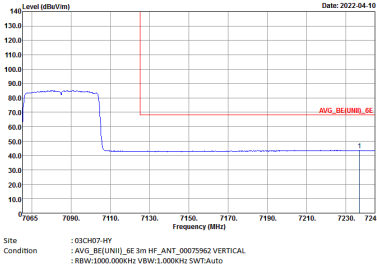
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



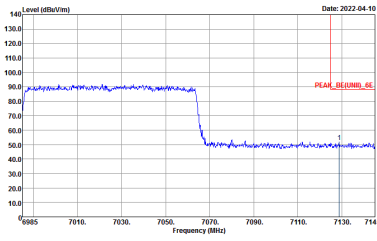
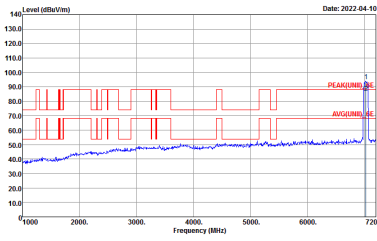
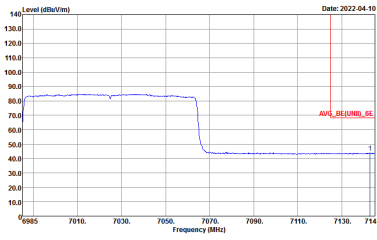
Band 8 - 6875~7125MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

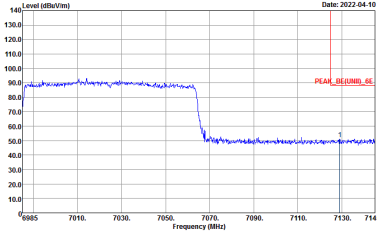
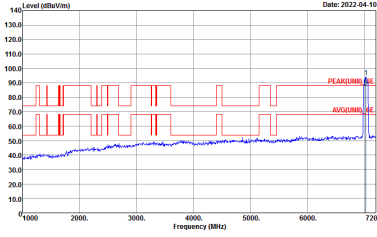
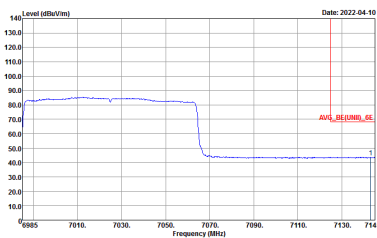
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII)_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWTAuto	Left blank



WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNID)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UNID)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE(UNID)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto	Left blank

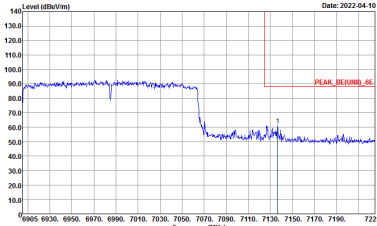
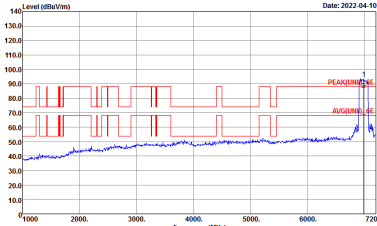
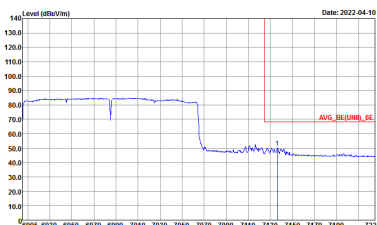
Band 8 - 6875~7125MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
4+3	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site Condition : 03CH07-HY : AVG_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto	Left blank

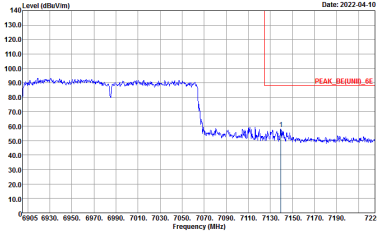
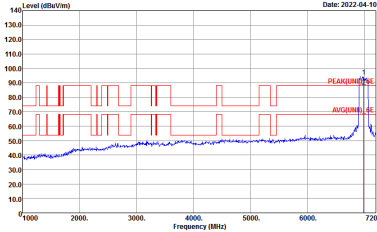
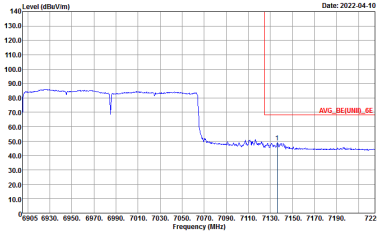
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank



Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

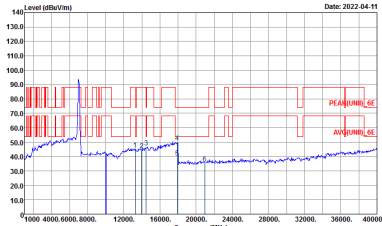
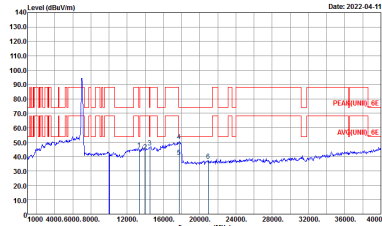
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto	 Site : 03CH07-HY Condition : PEAK[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE[UNII]_6E 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWTAuto	Left blank



WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE(UNB)_SE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



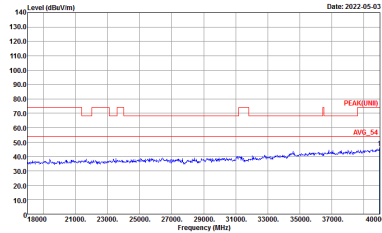
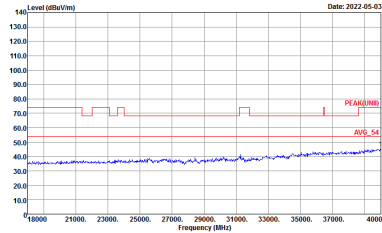
Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AV)WIFI_6E 1m SHF-CHF_9170251 HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : PEAK(AV)WIFI_6E 1m SHF-CHF_9170251 VERTICAL Detector : Peak

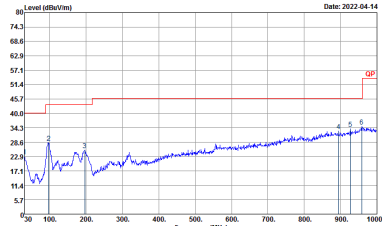
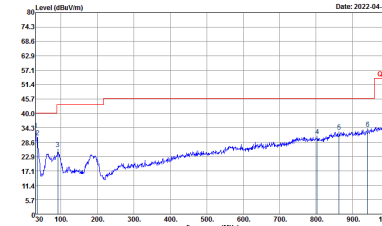


Emission above 18GHz

5GHz WIFI 802.11ax HE160 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE160 Full SHF	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AV) 1m SHF-EHF_9170251 HORIZONTAL Detector : Peak	 Site : 09CH07-HY Condition : PEAK(AV) 1m SHF-EHF_9170251 VERTICAL Detector : Peak

Emission below 1GHz
5GHz WIFI 802.11ax HE160 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE160 Full LF	
4+3	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(s) HORIZONTAL Detector : Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(s) VERTICAL Detector : Peak

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
4+3	6GHz 802.11ax HE20 Full RU	96.02	2410	0.41	1kHz
4+3	6GHz 802.11ax HE40 Full RU	92.54	1240	0.81	1kHz
4+3	6GHz 802.11ax HE80 Full RU	86.31	624	1.60	3kHz
4+3	6GHz 802.11ax HE160 Full RU	84.82	570	1.75	3kHz

MIMO <Ant. 4+3>



-THE END