

Emission above 18GHz

2.4GHz WIFI 802.11be EHT20 (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11be EHT20 SHF		23168	41.64	-32.36	74	37.75	39.09	17.23	52.43	-	-	P	H
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Emission below 1GHz

2.4GHz WIFI 802.11be EHT20 (LF)

[illegible]

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 margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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.	
1+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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”.



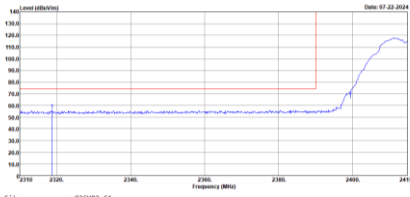
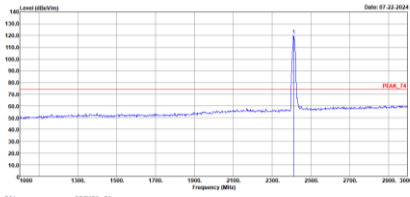
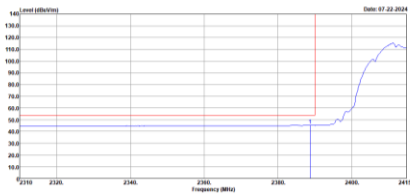
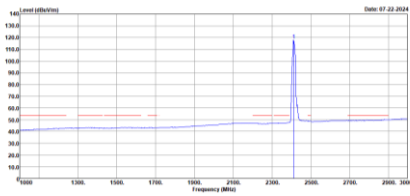
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Minh Nguyen, Renz Roxas and Jesse Fan	Temperature :	17.1~24.3°C
		Relative Humidity :	41.5~52.6%

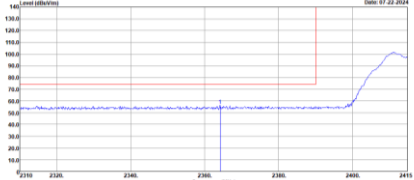
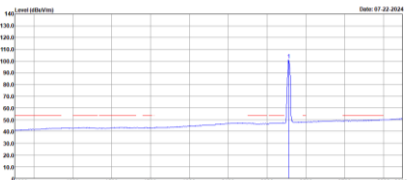
Note symbol

-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+3	Horizontal	Fundamental
Peak	 Site : 802M2-CA Condition : PEAK_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SMT:Auto	 Site : 802M2-CA Condition : PEAK_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SMT:Auto
Avg.	 Site : 802M2-CA Condition : AVG_54 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SMT:Auto	 Site : 802M2-CA Condition : AVG_54 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SMT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+3	Vertical	Fundamental
Peak	 Site : 802M2-CA Condition : PEAK_74 3e HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto	 Site : 802M2-CA Condition : PEAK_74 3e HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto
Avg.	 Site : 802M2-CA Condition : AVG_74 3e HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SM: Auto	 Site : 802M2-CA Condition : AVG_74 3e HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SM: Auto

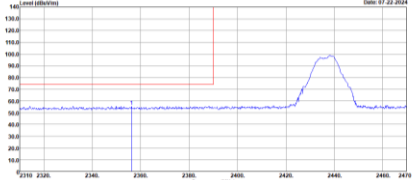
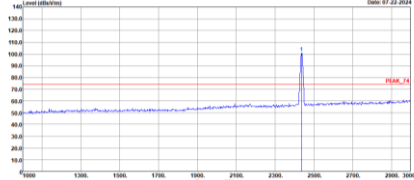
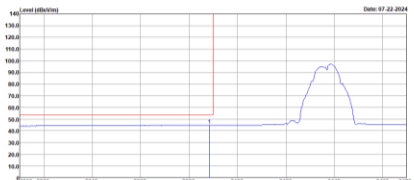
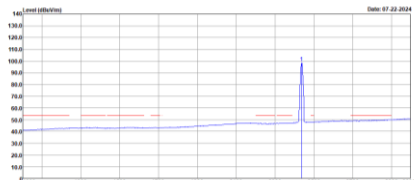


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		

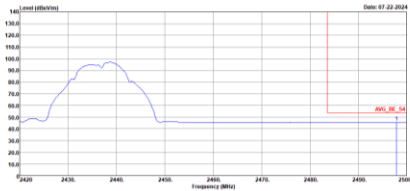


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

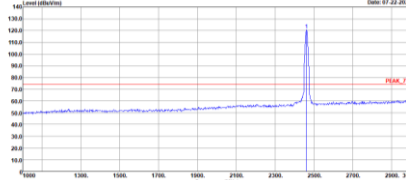
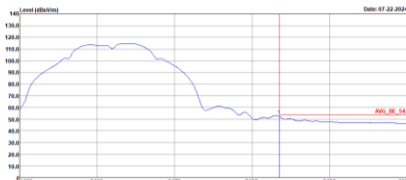
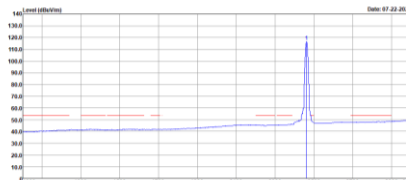


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_RZ_74 In HORN_02160_240129 VERTICAL : RBW:1000.0000Hz VSW:3000.0000Hz SMT:Auto	 Site : 03CH02-CA Condition : PEAK_74 In HORN_02160_240129 VERTICAL : RBW:1000.0000Hz VSW:3000.0000Hz SMT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_RZ_54 In HORN_02160_240129 VERTICAL : RBW:1000.0000Hz VSW:0.0100Hz SMT:Auto	 Site : 03CH02-CA Condition : AVG_54 In HORN_02160_240129 VERTICAL : RBW:1000.0000Hz VSW:0.0100Hz SMT:Auto

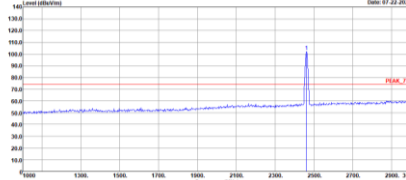
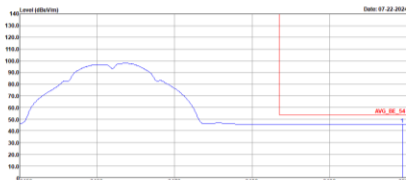
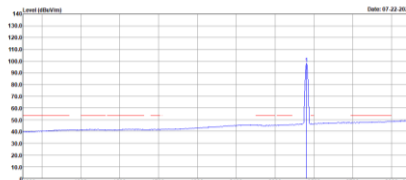


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+3	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_02_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 03CH02-CA Condition : PEAK_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 03CH02-CA Condition : AVG_02_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto	 Site : 03CH02-CA Condition : AVG_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto

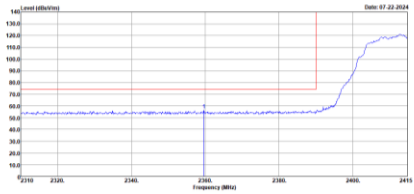
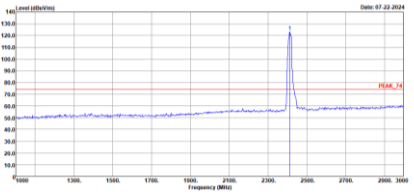
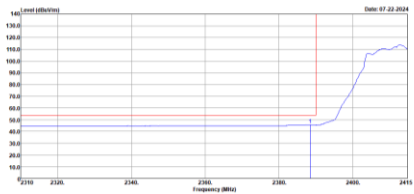
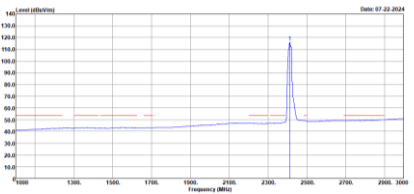


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+3	Vertical	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VSW: 3000.0000Hz SMT:Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VSW: 3000.0000Hz SMT:Auto
Avg.	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VSW: 0.0100Hz SMT:Auto	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VSW: 0.0100Hz SMT:Auto

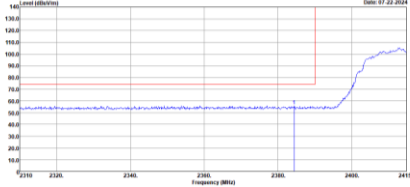
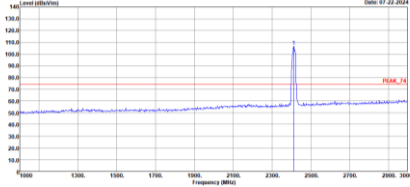
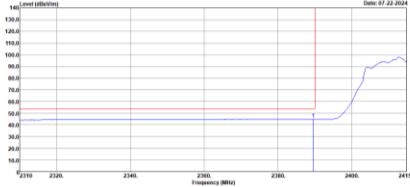
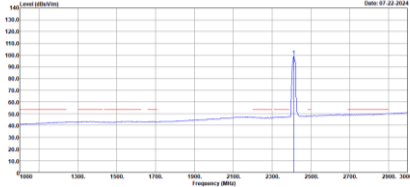


2.4GHz 2400~2483.5MHz

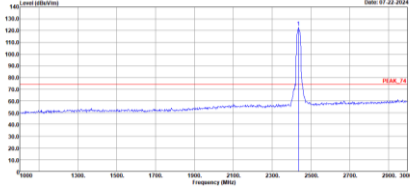
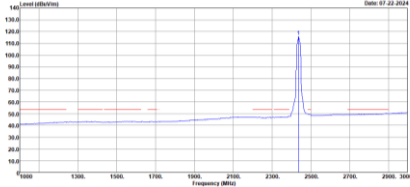
WIFI 802.11g (Band Edge @ 3m)

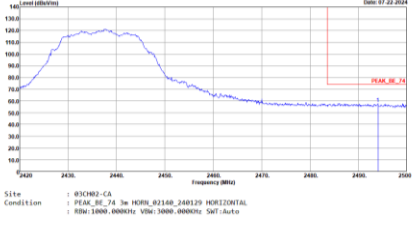
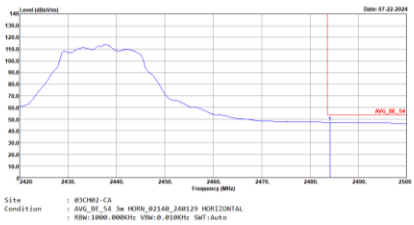
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+3	Horizontal	Fundamental
Peak	 Site : RICHM2-CA Condition : PEAK_B0_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SMT:Auto	 Site : RICHM2-CA Condition : PEAK_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SMT:Auto
Avg.	 Site : RICHM2-CA Condition : AVG_B0_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SMT:Auto	 Site : RICHM2-CA Condition : AVG_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SMT:Auto

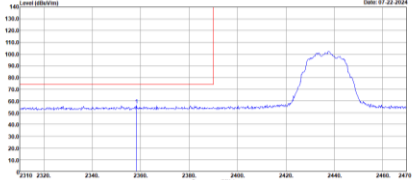
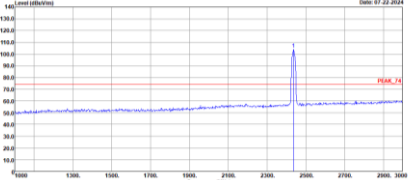
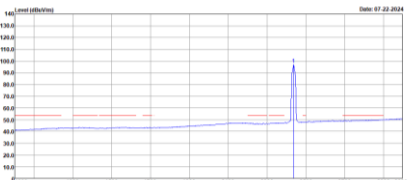


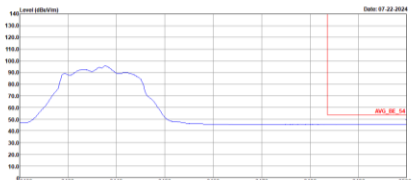
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+3	Vertical	Fundamental
Peak	 Site : 802M2-CA Condition : PEAK_80_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto	 Site : 802M2-CA Condition : PEAK_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto
Avg.	 Site : 802M2-CA Condition : AVG_80_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT:Auto	 Site : 802M2-CA Condition : AVG_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT:Auto



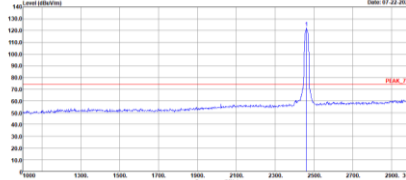
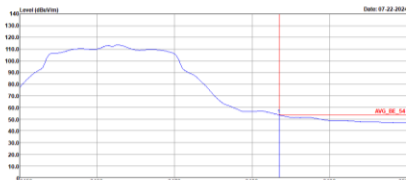
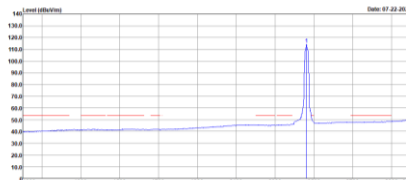
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+3	Horizontal	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_R0_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 83CH02-CA Condition : AVG_R0_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT: Auto	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT: Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

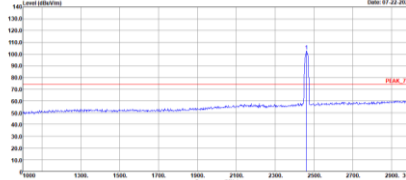
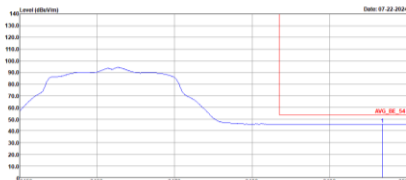
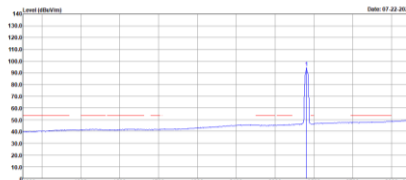
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ANT	802.11g CH06 2437MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_R0_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 03CH02-CA Condition : PEAK_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
	 Site : 03CH02-CA Condition : AVG_R0_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto	 Site : 03CH02-CA Condition : AVG_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+3	Vertical	Fundamental
Peak	 Site : RICHIE-CA Condition : PEAK_R0_74 3m HORN_R2160_240129 VERTICAL RBW: 1000.000000Hz VBW: 3000.000000Hz SMT:Auto	Left Blank
Avg.	 Site : RICHIE-CA Condition : AVG_R0_54 3m HORN_R2160_240129 VERTICAL RBW: 1000.000000Hz VBW: 0.010000Hz SMT:Auto	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+3	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_02_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 03CH02-CA Condition : PEAK_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 03CH02-CA Condition : AVG_02_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto	 Site : 03CH02-CA Condition : AVG_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto

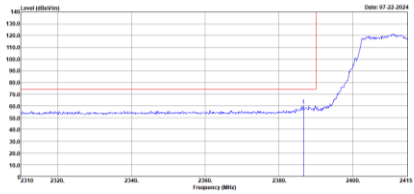
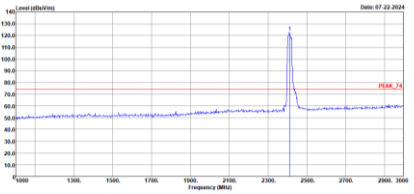
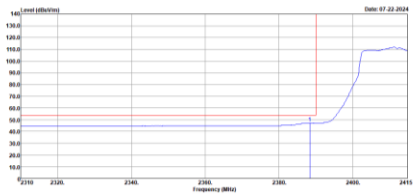
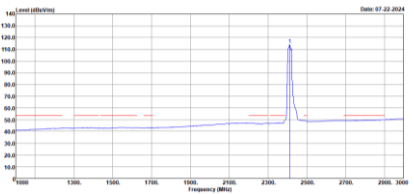


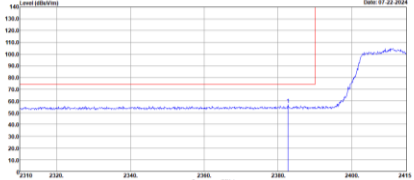
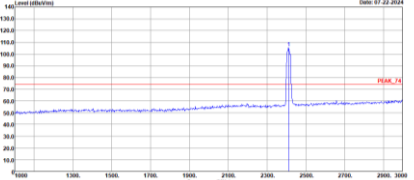
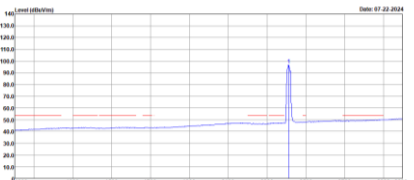
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+3	Vertical	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_R_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto	 Site : 83CH02-CA Condition : PEAK_F4 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto
Avg.	 Site : 83CH02-CA Condition : AVG_R_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SM: Auto	 Site : 83CH02-CA Condition : AVG_F4 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SM: Auto



2.4GHz 2400~2483.5MHz

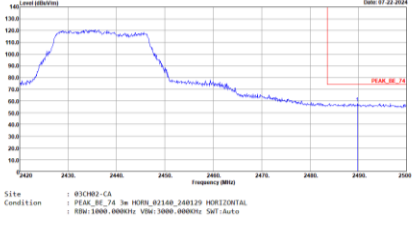
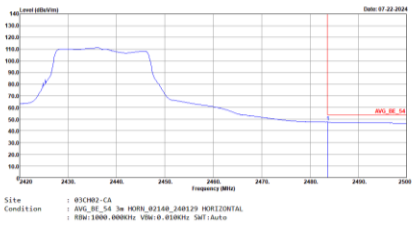
WIFI 802.11be EHT20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH01 2412MHz	
1+3	Horizontal	Fundamental
Peak	 Site : RICHM2-CA Condition : PEAK_BE_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SM7:Auto	 Site : RICHM2-CA Condition : PEAK_78 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SM7:Auto
Avg.	 Site : RICHM2-CA Condition : AVG_BE_54 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SM7:Auto	 Site : RICHM2-CA Condition : AVG_54 1m HORN_R2148_248129 HORIZONTAL RBW:1000.0000Hz VBW:0.0100Hz SM7:Auto

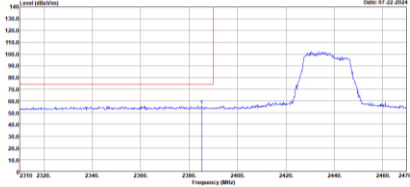
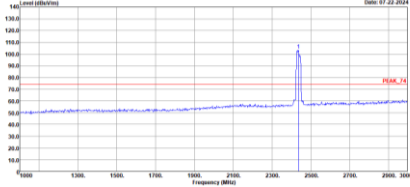
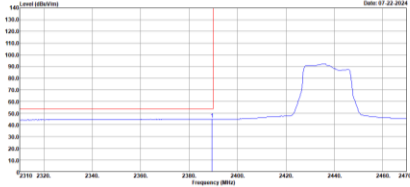
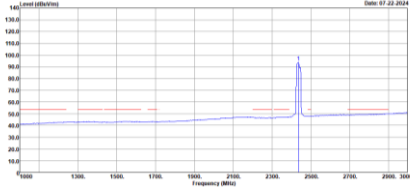
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH01 2412MHz	
1+3	Vertical	Fundamental
Peak	 Site : 802.11be EHT20 Full CH01 2412MHz Condition : Peak, 802.11be EHT20 Full CH01 2412MHz VERTICAL RBW: 1000.000000Hz VBW: 3000.000000Hz SM: Auto	 Site : 802.11be EHT20 Full CH01 2412MHz Condition : Peak, 802.11be EHT20 Full CH01 2412MHz VERTICAL RBW: 1000.000000Hz VBW: 3000.000000Hz SM: Auto
Avg.	 Site : 802.11be EHT20 Full CH01 2412MHz Condition : Avg, 802.11be EHT20 Full CH01 2412MHz VERTICAL RBW: 1000.000000Hz VBW: 0.010000Hz SM: Auto	 Site : 802.11be EHT20 Full CH01 2412MHz Condition : Avg, 802.11be EHT20 Full CH01 2412MHz VERTICAL RBW: 1000.000000Hz VBW: 0.010000Hz SM: Auto

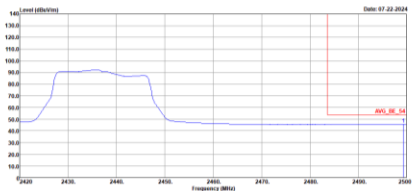


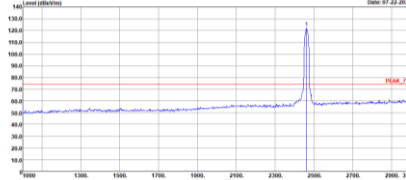
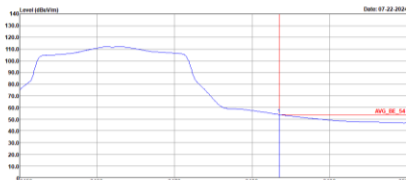
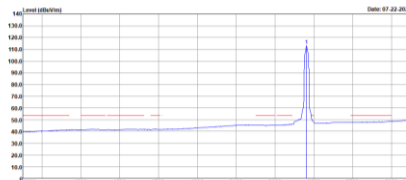
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH06 2437MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH06 2437MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

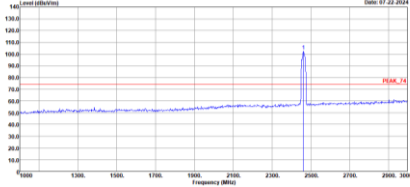
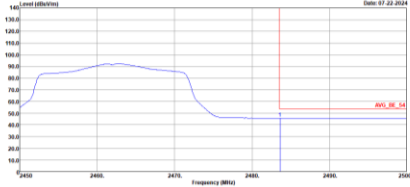
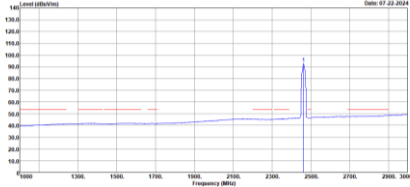


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH06 2437MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_R0_74 3m HORN_R02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SMT:Auto	 Site : 83CH02-CA Condition : PEAK_74 3m HORN_R02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SMT:Auto
Avg.	 Site : 83CH02-CA Condition : AVG_R0_74 3m HORN_R02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SMT:Auto	 Site : 83CH02-CA Condition : AVG_74 3m HORN_R02160_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.01000Hz SMT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH06 2437MHz - R	
1+3	Vertical	Fundamental
Peak	 Site : RICHIE-CA Condition : PEAK_R_74 3m HORN_R2160_240129 VERTICAL RBW: 1000.000000Hz VBW: 3000.000000Hz SMT:Auto	Left blank
Avg.	 Site : RICHIE-CA Condition : AVG_R_54 3m HORN_R2160_240129 VERTICAL RBW: 1000.000000Hz VBW: 0.010000Hz SMT:Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH11 2462MHz	
1+3	Horizontal	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_80_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 83CH02-CA Condition : AVG_80_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT20 Full CH11 2462MHz	
1+3	Vertical	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_02_74 In HORN_02160_240120 VERTICAL Fbw: 1000.000000Hz Vbw: 3000.000000Hz SMT:Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240120 VERTICAL Fbw: 1000.000000Hz Vbw: 3000.000000Hz SMT:Auto
Avg.	 Site : 83CH02-CA Condition : AVG_02_54 In HORN_02160_240120 VERTICAL Fbw: 1000.000000Hz Vbw: 0.010000Hz SMT:Auto	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240120 VERTICAL Fbw: 1000.000000Hz Vbw: 0.010000Hz SMT:Auto

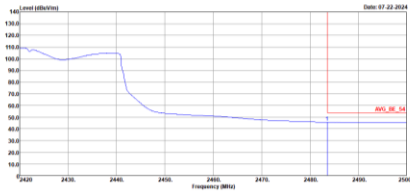


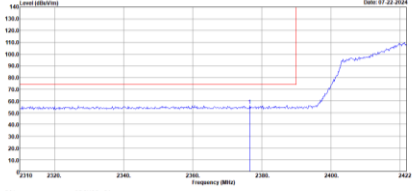
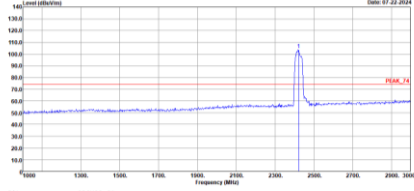
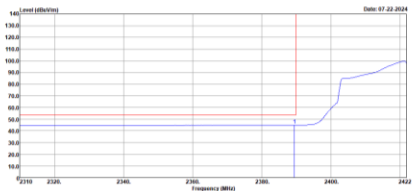
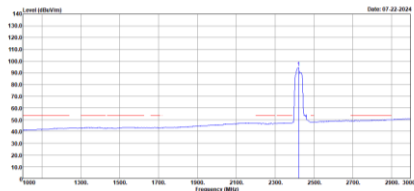
2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT40 Full (Band Edge @ 3m)

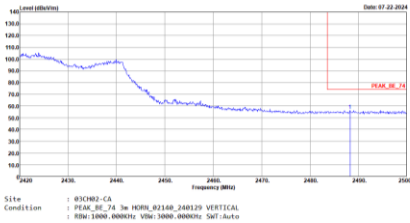
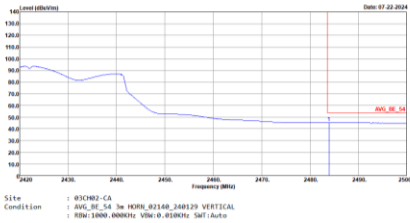
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH03 2422MHz - L	
1+3	Horizontal	Fundamental
Peak	Site : RICHM2-CA Condition : PEAK_78 1m HORN_R2140_240129 HORIZONTAL Fbw: 1000.0000Hz Vbw: 3000.0000Hz SMT: Auto	Site : RICHM2-CA Condition : PEAK_78 1m HORN_R2140_240129 HORIZONTAL Fbw: 1000.0000Hz Vbw: 3000.0000Hz SMT: Auto
Avg.	Site : RICHM2-CA Condition : AVG_78 1m HORN_R2140_240129 HORIZONTAL Fbw: 1000.0000Hz Vbw: 0.0100Hz SMT: Auto	Site : RICHM2-CA Condition : AVG_78 1m HORN_R2140_240129 HORIZONTAL Fbw: 1000.0000Hz Vbw: 0.0100Hz SMT: Auto



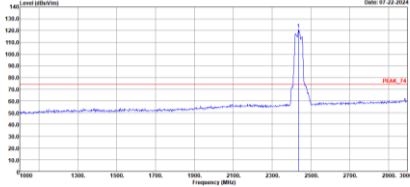
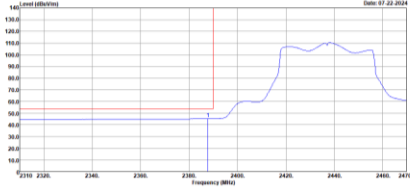
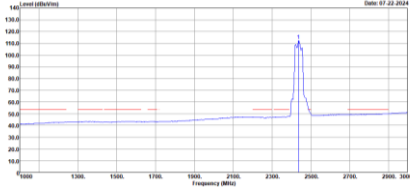
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH03 2422MHz - R	
1+3	Horizontal	Fundamental
Peak	 Site : RICHM2-CA Condition : PEAK_RR_74 3m HORN_R2160_240129 HORIZONTAL RBW: 1000.000000Hz VBW: 3000.000000Hz SMT: Auto	Left blank
Avg.	 Site : RICHM2-CA Condition : AVG_RR_54 3m HORN_R2160_240129 HORIZONTAL RBW: 1000.000000Hz VBW: 0.010000Hz SMT: Auto	Left blank

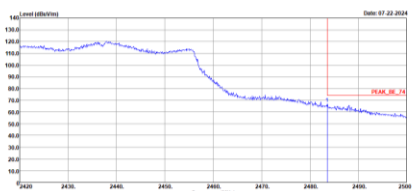
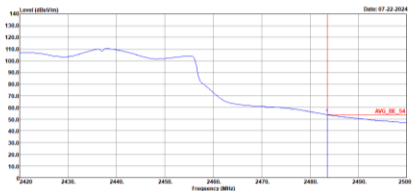
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH03 2422MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 802.11be-CA Condition : PEAK_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 802.11be-CA Condition : PEAK_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 802.11be-CA Condition : AVG_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT: Auto	 Site : 802.11be-CA Condition : AVG_74 In HORN_02160_240120 VERTICAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT: Auto

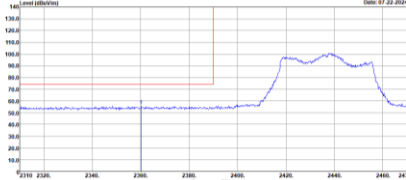
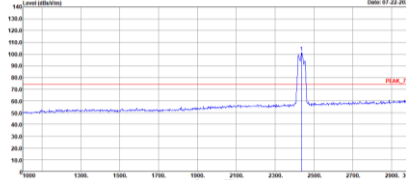
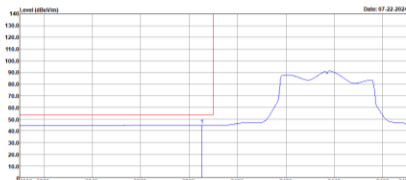
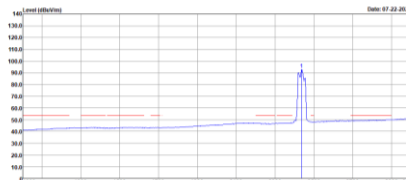


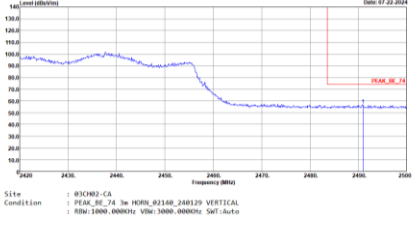
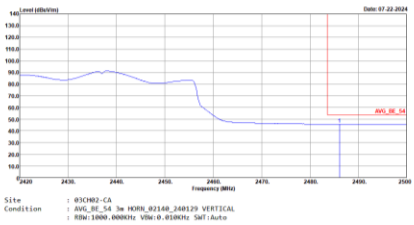
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH03 2422MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



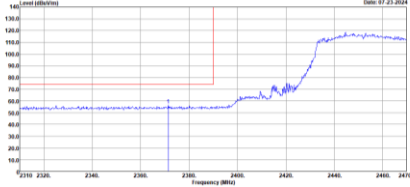
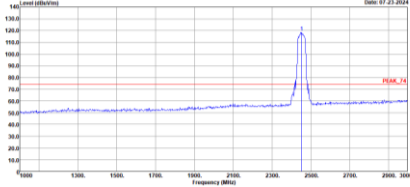
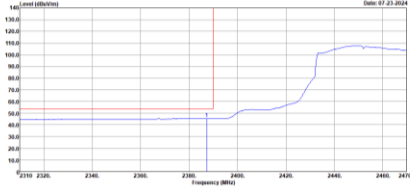
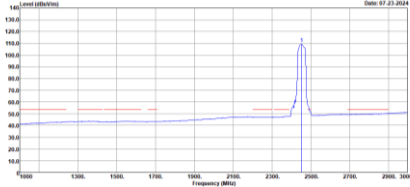
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH06 2437MHz - L	
1+3	Horizontal	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_02_74 3m HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto	 Site : 83CH02-CA Condition : PEAK_74 3m HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto
Avg.	 Site : 83CH02-CA Condition : AVG_02_74 3m HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT:Auto	 Site : 83CH02-CA Condition : AVG_74 3m HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.0100Hz SMT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH06 2437MHz - R	
1+3	Horizontal	Fundamental
Peak	 Site : RICHIE-CA Condition : PEAK_RR_74 3m HORN_R2140_240129 HORIZONTAL RBW: 1000.000000Hz VBW: 3000.000000Hz SMT: Auto	Left blank
Avg.	 Site : RICHIE-CA Condition : AVG_RR_54 3m HORN_R2140_240129 HORIZONTAL RBW: 1000.000000Hz VBW: 0.010000Hz SMT: Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH06 2437MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_R0_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT:Auto
Avg.	 Site : 83CH02-CA Condition : AVG_R0_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT:Auto	 Site : 83CH02-CA Condition : AVG_54 In HORN_02160_240129 VERTICAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH06 2437MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

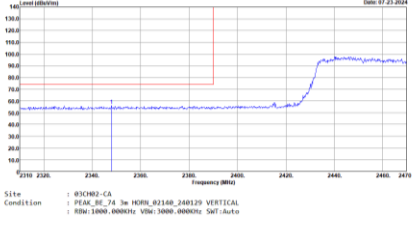
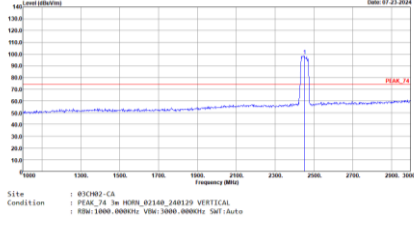
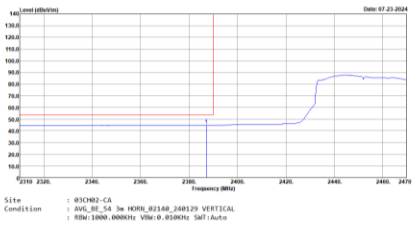
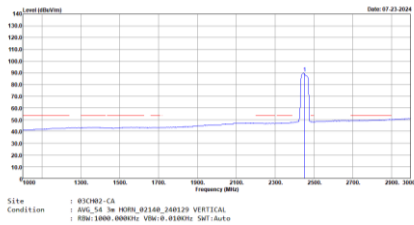


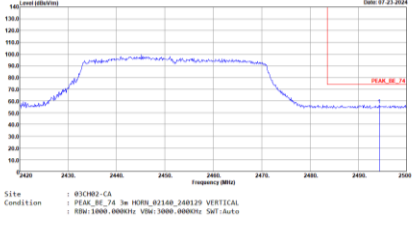
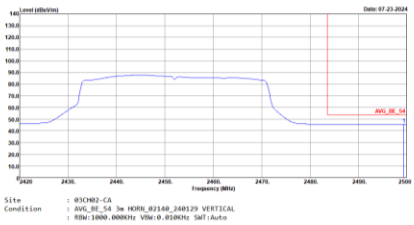
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH09 2452MHz - L	
1+3	Horizontal	Fundamental
Peak	 Site : 83CH02-CA Condition : PEAK_80_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto	 Site : 83CH02-CA Condition : PEAK_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 3000.0000Hz SMT: Auto
Avg.	 Site : 83CH02-CA Condition : AVG_80_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto	 Site : 83CH02-CA Condition : AVG_74 In HORN_02160_240129 HORIZONTAL RBW: 1000.0000Hz VBN: 0.01000Hz SMT: Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH09 2452MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH09 2452MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : RICHM2-CA Condition : PEAK_RL_74 1m HORN_R2140_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto	 Site : RICHM2-CA Condition : PEAK_74 1m HORN_R2140_240129 VERTICAL RBW: 1000.0000Hz VBW: 3000.0000Hz SM: Auto
Avg.	 Site : RICHM2-CA Condition : AVG_RL_54 1m HORN_R2140_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.0100Hz SM: Auto	 Site : RICHM2-CA Condition : AVG_54 1m HORN_R2140_240129 VERTICAL RBW: 1000.0000Hz VBW: 0.0100Hz SM: Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11be EHT40 Full CH09 2452MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



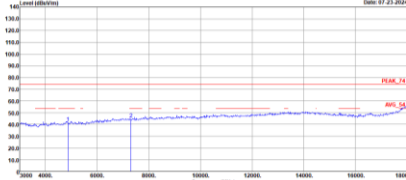
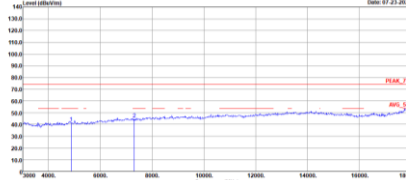
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+3	Horizontal	Vertical
Peak Avg.		



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

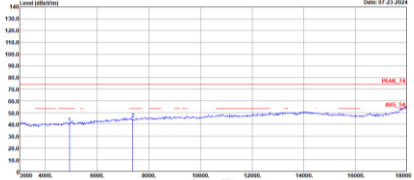


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	 Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :

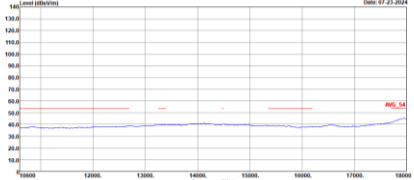
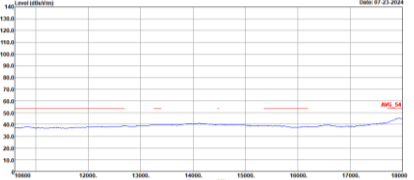


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

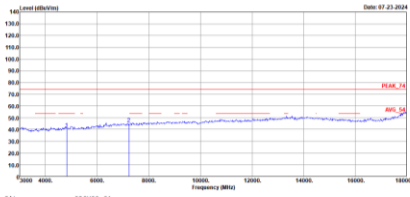
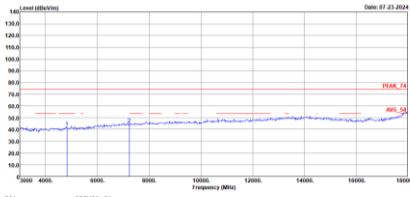


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :

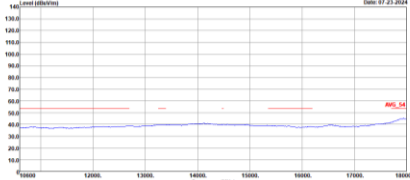
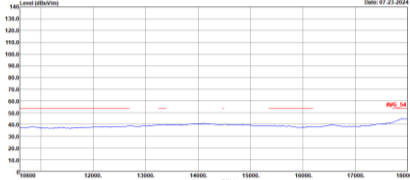


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 01SCH02-CA Condition : PEAK_74 3m HORIZ_02140_240129 HORIZONTAL :	 Site : 01SCH02-CA Condition : PEAK_74 3m HORIZ_02140_240129 VERTICAL :

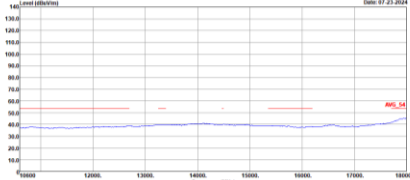
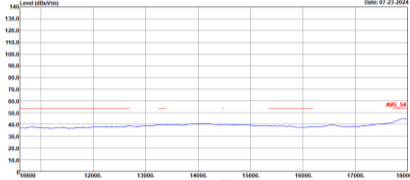


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+3	Horizontal	Vertical
Peak Avg.	Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

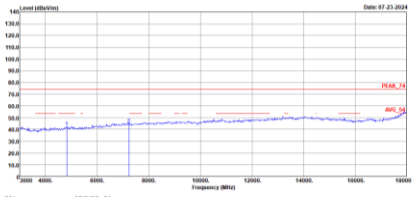
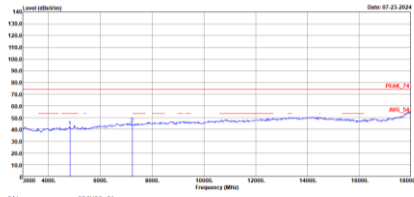


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+3	Horizontal	Vertical
Peak Avg.	Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

2.4GHz 2400~2483.5MHz
WIFI 802.11 be EHT20 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH01 2412MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 01CH02-CA Condition : PEAK_74 3m HORN_02140_240129 HORIZONTAL	 Site : 01CH02-CA Condition : PEAK_74 3m HORN_02140_240129 VERTICAL

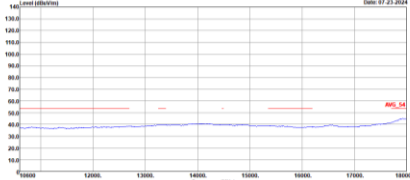
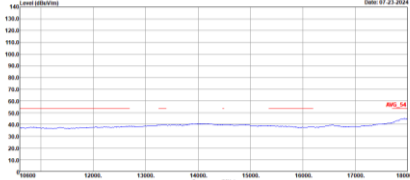


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH01 2412MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

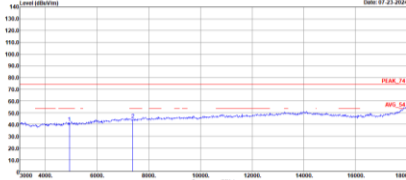
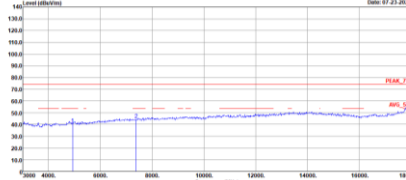


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH06 2437MHz	
1+3	Horizontal	Vertical
Peak Avg.	Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	Site : 83CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :

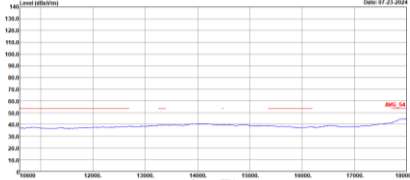
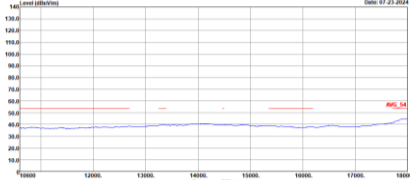


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH06 2437MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG_54 3m HORN_82148_240129 HORIZONTAL Date: 07-23-2024	 Site : 83CH02-CA Condition : AVG_54 3m HORN_82148_240129 VERTICAL Date: 07-23-2024

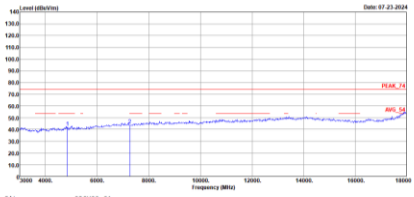
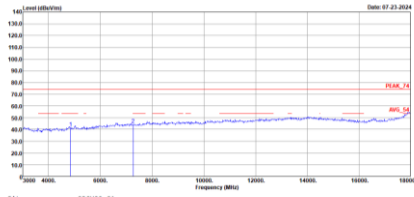


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH11 2462MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT20 Full CH11 2462MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Date: 07-23-2024	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Date: 07-23-2024

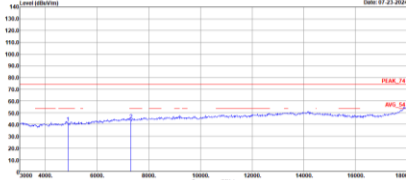
2.4GHz 2400~2483.5MHz
WIFI 802.11 be EHT40 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH03 2422MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 01CH02-CA Condition : PEAK_74 3m HORN_02140_240129 HORIZONTAL	 Site : 01CH02-CA Condition : PEAK_74 3m HORN_02140_240129 VERTICAL

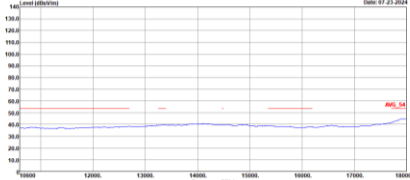
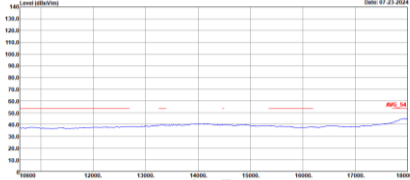


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH03 2422MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 83CH02-CA Condition : AVG_54 3m H00H_R02140_240129 HORIZONTAL Date: 07-23-2024	Site : 83CH02-CA Condition : AVG_54 3m H00H_R02140_240129 VERTICAL Date: 07-23-2024

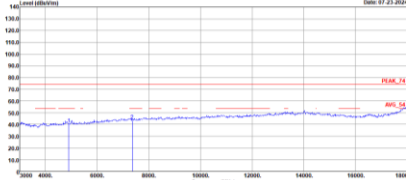
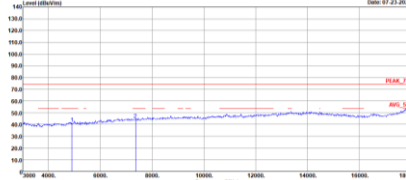


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH06 2437MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 HORIZONTAL :	 Site : 03CH02-CA Condition : PEAK_F4 3m HORN_02140_240129 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH06 2437MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG_54 3m H00H_02140_240129 HORIZONTAL Date: 07-23-2024	 Site : 83CH02-CA Condition : AVG_54 3m H00H_02140_240129 VERTICAL Date: 07-23-2024

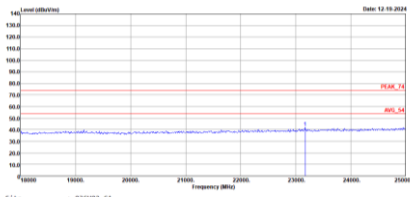
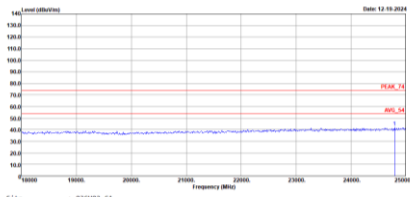


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH09 2452MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_F4 3m H0R0L_02140_240129 HORIZONTAL :	 Site : 03CH02-CA Condition : PEAK_F4 3m H0R0L_02140_240129 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 be EHT40 Full CH09 2452MHz	
1+3	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AVG_54 3m H00H_02140_240129 HORIZONTAL Date: 07-23-2024	Site : 03CH02-CA Condition : AVG_54 3m H00H_02140_240129 VERTICAL Date: 07-23-2024

Emission above 18GHz
2.4GHz WIFI 802.11be EHT20 Full (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11be EHT20 Full SHF	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 83CM02-CA Condition : PEAK_F4 1m SHF_HORN_B41_2400007 HORIZONTAL : -	 Site : 83CM02-CA Condition : PEAK_F4 1m SHF_HORN_B41_2400007 VERTICAL : -



Emission below 1GHz
2.4GHz WIFI 802.11be EHT20 Full (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11be EHT20 Full LF	
1+3	Horizontal	Vertical
QP / Peak	Site : 03CH02-CA Condition : QP 3m BILOG_50392_240813_L HORIZONTAL	Site : 03CH02-CA Condition : QP 3m BILOG_50392_240813_L VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+3	802.11b	98.14	-	-	10Hz
1+3	802.11g	99.75	-	-	10Hz
1+3	2.4GHz 802.11be EHT20	99.63	-	-	10Hz
1+3	2.4GHz 802.11be EHT40	99.63	-	-	10Hz

MIMO <Ant. 1+3>

