

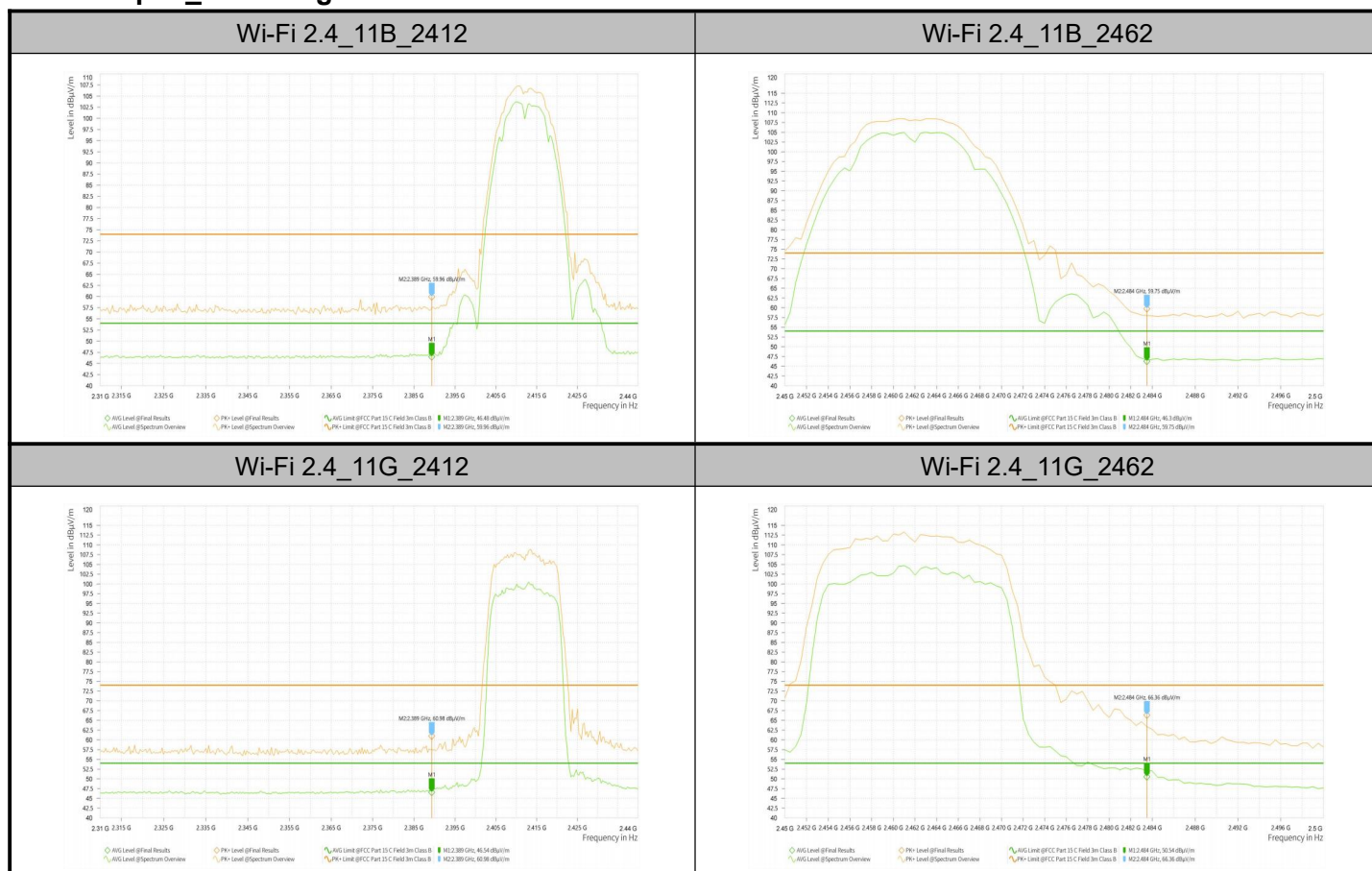
Appendix B – Test Results of Radiated Test

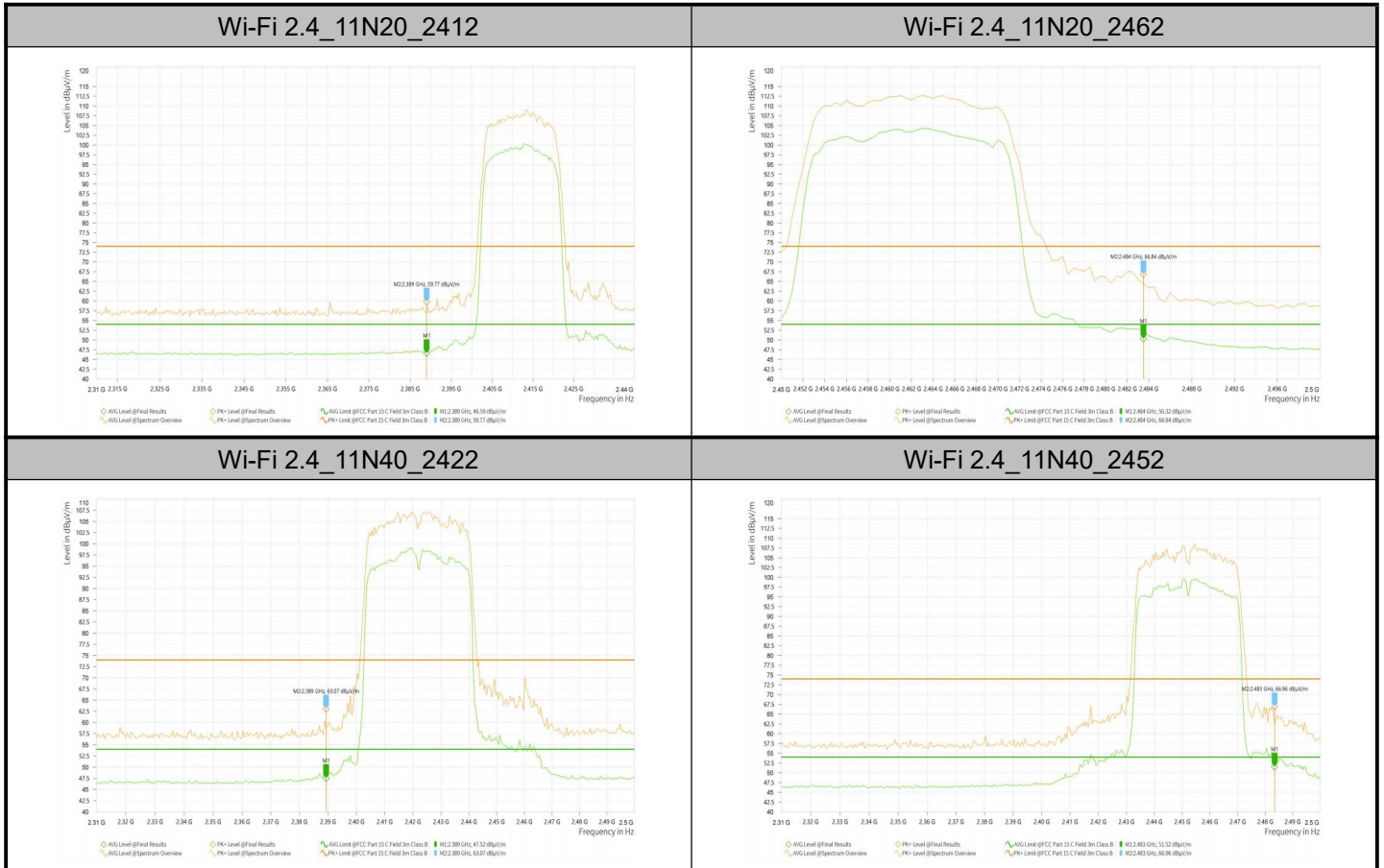
B.1 Radiated Band Edges and Spurious Emission

Test Result_Band Edges

Test Mode & Test Freq.[MHz]	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Polarization	Azimuth [deg]
Wi-Fi 2.4_11B_2412	2,389.300	59.96	74.00	14.04	46.48	54.00	7.52	V	177.8
Wi-Fi 2.4_11B_2462	2,483.500	59.75	74.00	14.25	46.30	54.00	7.70	H	266.3
Wi-Fi 2.4_11G_2412	2,389.300	60.98	74.00	13.02	46.54	54.00	7.46	V	0
Wi-Fi 2.4_11G_2462	2,483.500	66.36	74.00	7.64	50.54	54.00	3.46	V	94.1
Wi-Fi 2.4_11N20_2412	2,388.975	59.77	74.00	14.23	46.59	54.00	7.41	V	5.1
Wi-Fi 2.4_11N20_2462	2,483.500	66.84	74.00	7.16	50.32	54.00	3.68	V	0.8
Wi-Fi 2.4_11N40_2422	2,389.325	63.07	74.00	10.93	47.52	54.00	6.48	V	0
Wi-Fi 2.4_11N40_2452	2,483.375	66.96	74.00	7.04	51.52	54.00	2.48	V	242.3

Test Graphs_Band Edges





Test Result_Spurious Emission

Note1: Test result Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

Note2: 'Low' indicates a frequency range below 1GHz, and 'High' indicates a frequency range above 1GHz.

Test Mode & Test Freq.[MHz]	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Polarization	Azimuth [deg]
Wi-Fi 2.4G_11B_2412_High	2,004.500	48.86	74.00	25.14	38.92	54.00	15.08	V	120.4
	4,824.000	53.67	74.00	20.33	42.19	54.00	11.81	V	360
	6,300.000	57.09	74.00	16.91	44.29	54.00	9.71	H	255.1
	7,236.000	56.39	74.00	17.61	42.88	54.00	11.12	H	0
	9,648.000	39.77	74.00	34.23	26.85	54.00	27.15	H	347.6
	12,061.000	41.15	74.00	32.85	28.54	54.00	25.46	H	283.8
	14,472.500	43.03	74.00	30.97	30.36	54.00	23.64	H	283.8
Wi-Fi	16,883.500	49.84	74.00	24.16	37.20	54.00	16.80	H	360
	2,004.500	48.88	74.00	25.12	39.75	54.00	14.25	V	240.8

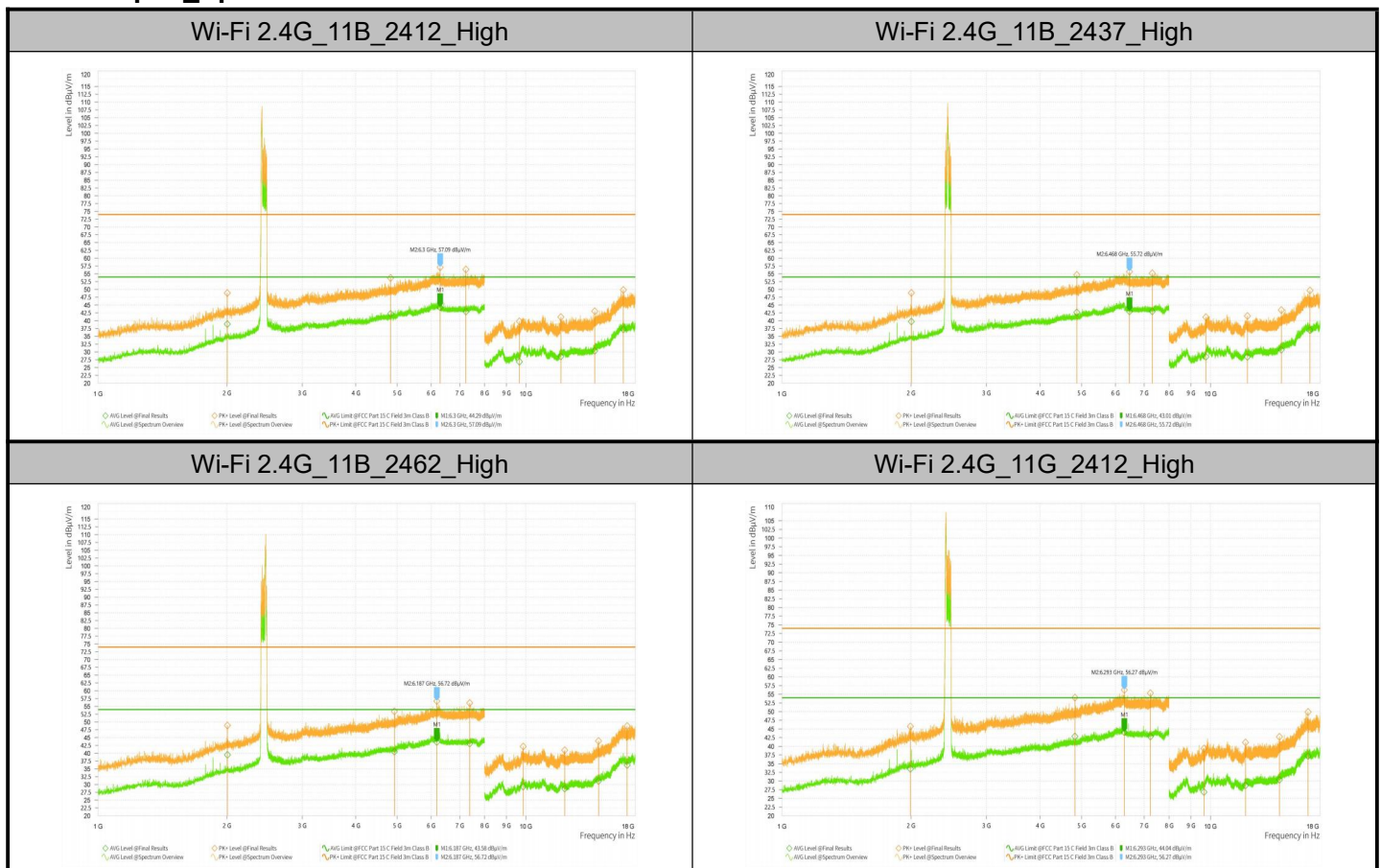
2.4G_11B_2437_High	4,874.000	54.68	74.00	19.32	42.63	54.00	11.37	V	306.8
	6,468.000	55.72	74.00	18.28	43.01	54.00	10.99	H	0
	7,311.000	55.18	74.00	18.82	42.98	54.00	11.02	H	90.4
	9,748.000	41.13	74.00	32.87	28.46	54.00	25.54	H	283.8
	12,184.500	41.53	74.00	32.47	28.43	54.00	25.57	V	143.1
	14,622.000	43.40	74.00	30.60	30.69	54.00	23.31	V	360
	17,058.500	49.66	74.00	24.34	36.95	54.00	17.06	V	202.9
Wi-Fi 2.4G_11B_2462_High	2,005.000	48.87	74.00	25.13	39.49	54.00	14.51	V	240.8
	4,923.500	53.43	74.00	20.57	40.48	54.00	13.52	H	1.2
	6,186.500	56.72	74.00	17.28	43.58	54.00	10.42	H	308
	7,386.000	56.08	74.00	17.92	43.12	54.00	10.88	V	253
	9,849.000	42.15	74.00	31.85	29.33	54.00	24.67	H	79.7
	12,310.500	40.97	74.00	33.03	28.67	54.00	25.33	V	201.7
	14,772.500	43.93	74.00	30.07	31.11	54.00	22.89	H	360
Wi-Fi 2.4G_11G_2412_High	17,233.500	48.70	74.00	25.30	36.22	54.00	17.78	V	201.7
	1,993.500	45.75	74.00	28.25	33.52	54.00	20.48	V	188.5
	4,824.000	54.03	74.00	19.97	42.85	54.00	11.15	V	37.9
	6,292.500	56.27	74.00	17.73	44.04	54.00	9.96	H	0
	7,235.500	55.31	74.00	18.69	42.84	54.00	11.16	H	359.8
	9,648.000	39.36	74.00	34.64	26.83	54.00	27.17	H	360
	12,060.500	41.10	74.00	32.90	28.74	54.00	25.26	H	0
Wi-Fi 2.4G_11G_2437_High	14,471.000	42.76	74.00	31.24	30.36	54.00	23.64	V	286.2
	16,883.000	49.88	74.00	24.12	37.19	54.00	16.81	V	219.4
	2,004.500	46.54	74.00	27.46	34.11	54.00	19.89	H	360
	4,874.000	53.15	74.00	20.85	40.22	54.00	13.78	H	51.9
	6,265.500	56.21	74.00	17.79	43.95	54.00	10.05	V	306.7
	7,310.500	55.62	74.00	18.38	42.95	54.00	11.05	H	156.2
	9,747.500	40.89	74.00	33.11	28.37	54.00	25.63	V	202.8
Wi-Fi 2.4G_11G_2462_High	12,186.000	40.81	74.00	33.19	28.38	54.00	25.62	V	360
	14,622.000	43.02	74.00	30.98	30.58	54.00	23.42	H	140.6
	17,058.500	49.62	74.00	24.38	36.98	54.00	17.02	V	346.9
	2,004.500	48.86	74.00	25.14	39.72	54.00	14.28	V	242.1
	4,924.000	52.91	74.00	21.09	40.34	54.00	13.66	H	360
	6,197.500	55.88	74.00	18.12	43.48	54.00	10.52	V	360
	7,385.500	56.23	74.00	17.77	43.36	54.00	10.64	V	273.2
Wi-Fi 2.4G_11G_2462_High	9,849.000	41.65	74.00	32.35	29.51	54.00	24.49	V	14.5
	12,310.500	41.20	74.00	32.80	28.68	54.00	25.32	H	360
	14,771.500	44.08	74.00	29.92	31.10	54.00	22.90	H	141.8
	17,233.500	48.53	74.00	25.47	36.15	54.00	17.85	V	144.3

Wi-Fi 2.4G_11N20_2412_High	2,004.500	48.67	74.00	25.33	39.56	54.00	14.44	V	239.7
	4,823.500	52.86	74.00	21.14	40.17	54.00	13.83	H	171.8
	6,122.000	57.03	74.00	16.97	43.44	54.00	10.56	H	1.2
	7,235.500	55.36	74.00	18.64	42.66	54.00	11.34	H	202.6
	9,648.500	39.88	74.00	34.12	26.87	54.00	27.13	H	0
	12,059.500	41.46	74.00	32.54	28.57	54.00	25.43	H	203
	14,473.000	42.54	74.00	31.46	30.39	54.00	23.61	V	11.6
	16,884.000	50.04	74.00	23.96	37.21	54.00	16.79	V	360
Wi-Fi 2.4G_11N20_2437_High	2,004.500	48.83	74.00	25.17	39.51	54.00	14.49	V	239.7
	4,873.500	52.85	74.00	21.15	40.44	54.00	13.56	V	306.9
	6,253.000	57.04	74.00	16.96	43.82	54.00	10.18	H	173
	7,311.000	55.66	74.00	18.34	42.98	54.00	11.02	H	269.6
	9,748.000	41.20	74.00	32.80	28.54	54.00	25.46	H	0
	12,184.500	40.97	74.00	33.03	28.26	54.00	25.74	H	346.3
	14,621.500	43.46	74.00	30.54	30.59	54.00	23.41	H	360
	17,058.500	49.26	74.00	24.74	36.85	54.00	17.15	H	14.4
Wi-Fi 2.4G_11N20_2462_High	1,856.500	47.57	74.00	26.43	38.13	54.00	15.87	V	239.7
	4,924.000	52.58	74.00	21.42	40.38	54.00	13.62	H	1.3
	6,241.500	56.77	74.00	17.23	43.68	54.00	10.32	H	319.8
	7,386.000	55.45	74.00	18.55	43.04	54.00	10.96	H	0
	9,847.500	42.08	74.00	31.92	29.28	54.00	24.72	H	219.3
	12,310.000	41.75	74.00	32.25	28.66	54.00	25.34	H	283.8
	14,771.500	43.60	74.00	30.40	31.17	54.00	22.83	H	347
	17,234.000	49.22	74.00	24.78	36.15	54.00	17.85	H	283.8
Wi-Fi 2.4G_11N40_2422_High	2,004.500	49.48	74.00	24.52	40.99	54.00	13.01	V	307.8
	4,844.000	52.99	74.00	21.01	40.34	54.00	13.66	H	173
	6,238.500	56.62	74.00	17.38	43.57	54.00	10.43	H	188.3
	7,265.500	55.47	74.00	18.53	42.97	54.00	11.03	V	360
	9,687.500	40.24	74.00	33.76	27.56	54.00	26.44	H	360
	12,110.500	41.55	74.00	32.45	28.66	54.00	25.34	H	216.9
	14,530.500	42.88	74.00	31.12	30.73	54.00	23.27	V	360
	16,957.000	49.63	74.00	24.37	36.66	54.00	17.34	H	216.9
Wi-Fi 2.4G_11N40_2437_High	2,005.000	48.70	74.00	25.30	39.36	54.00	14.64	V	240.8
	4,874.000	52.84	74.00	21.16	40.46	54.00	13.54	V	1.2
	6,261.000	56.82	74.00	17.18	43.87	54.00	10.13	V	360
	7,310.500	55.77	74.00	18.23	42.97	54.00	11.03	H	156.2
	9,749.000	40.83	74.00	33.17	28.28	54.00	25.72	H	286.2
	12,183.500	41.53	74.00	32.47	28.27	54.00	25.73	V	0
	14,623.000	43.13	74.00	30.87	30.63	54.00	23.37	H	74.9

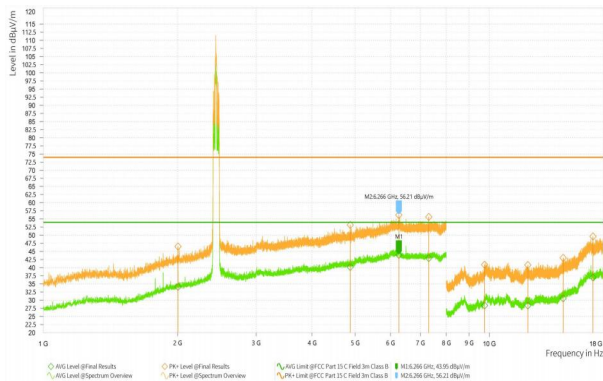
	17,058.000	49.23	74.00	24.77	36.78	54.00	17.22	V	349
Wi-Fi 2.4G_11N40_2452_High	4,904.000	53.46	74.00	20.54	40.21	54.00	13.79	H	360
	7,354.000	55.22	74.00	18.78	42.96	54.00	11.04	V	254.2
	9,806.500	41.63	74.00	32.37	29.08	54.00	24.92	V	360
	12,258.000	40.86	74.00	33.14	28.45	54.00	25.55	H	360
	14,713.000	43.71	74.00	30.29	31.01	54.00	22.99	H	360
	17,161.500	48.42	74.00	25.58	36.04	54.00	17.96	V	11.6

Test Mode & Test Freq.[MHz]	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Polarization	Azimuth [deg]
Wi-Fi 2.4G_11B_2412_Low	47.945	23.77	40.00	16.23	V	255.2
	55.543	25.96	40.00	14.04	V	288.6
	119.994	32.54	43.50	10.96	V	158.3
	259.028	26.31	46.00	19.69	H	14.5
	593.947	23.44	46.00	22.56	V	288.6
	960.014	23.46	54.00	30.54	H	0

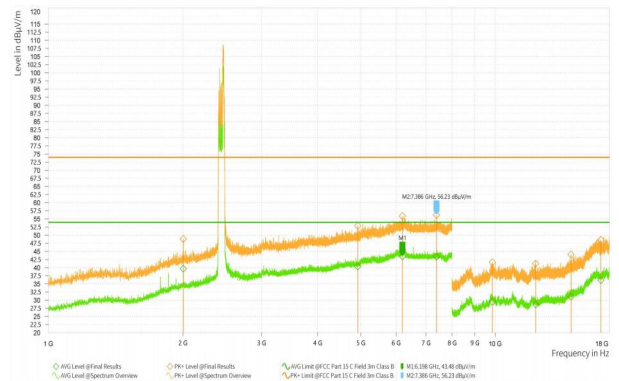
Test Graphs_Spurious Emission



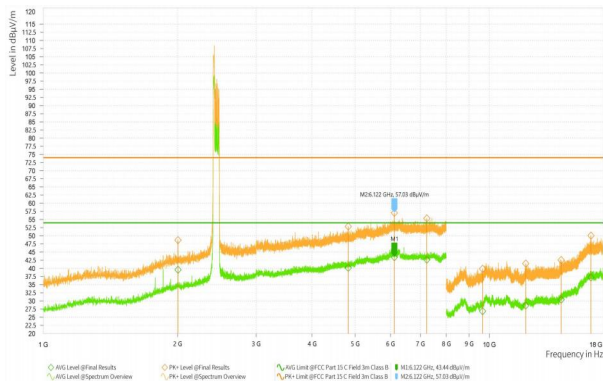
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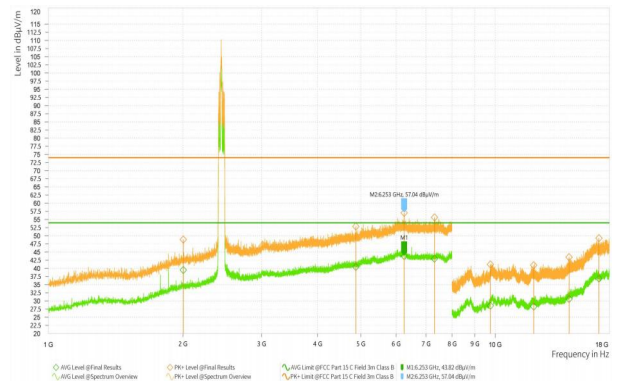
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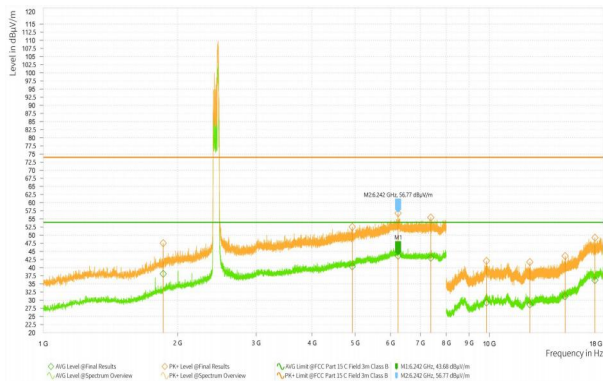
Wi-Fi 2.4G_11N20_2412_High



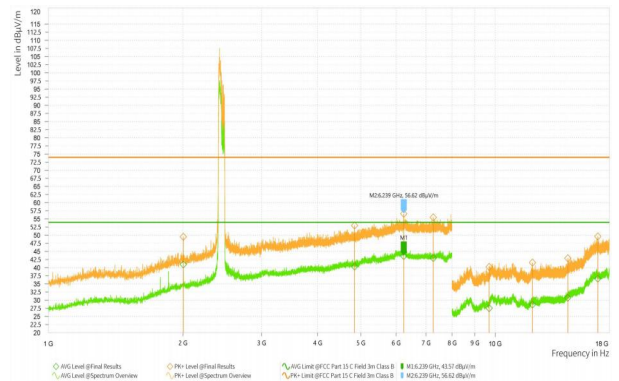
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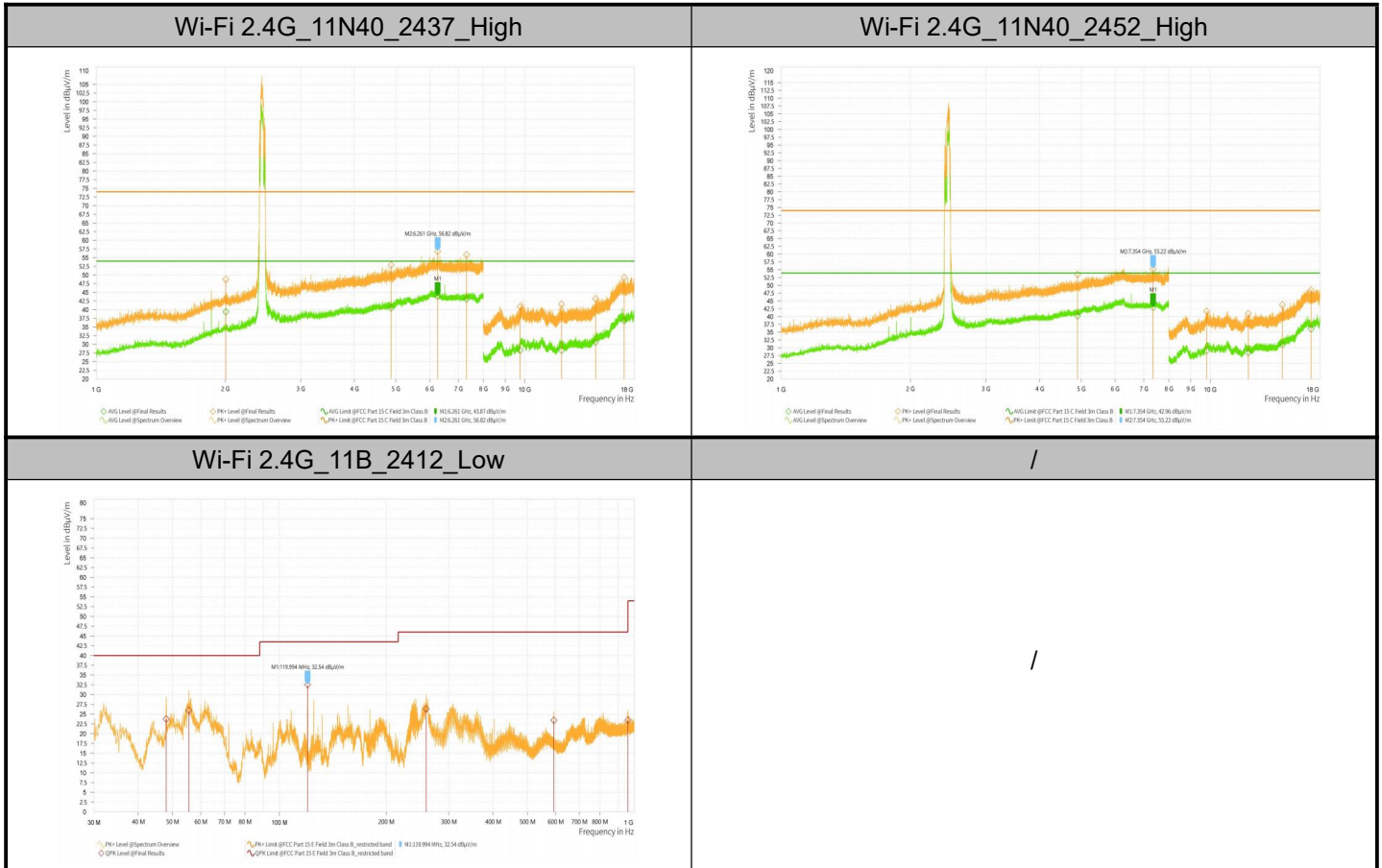


Wi-Fi 2.4G_11N20_2462_High



Wi-Fi 2.4G_11N40_2422_High





B.2 Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B-CDD	Ant1	2412	12.19	12.70	95.98	0.18
11B-CDD	Ant2	2412	12.19	12.70	95.98	0.18
11B-CDD	Ant1	2437	12.20	12.70	96.06	0.17
11B-CDD	Ant2	2437	12.20	12.70	96.06	0.17
11B-CDD	Ant1	2462	12.20	12.69	96.14	0.17
11B-CDD	Ant2	2462	12.20	12.71	95.99	0.18
11G-CDD	Ant1	2412	2.03	2.53	80.24	0.96
11G-CDD	Ant2	2412	2.02	2.52	80.16	0.96
11G-CDD	Ant1	2437	2.02	2.52	80.16	0.96
11G-CDD	Ant2	2437	2.02	2.52	80.16	0.96
11G-CDD	Ant1	2462	2.03	2.53	80.24	0.96
11G-CDD	Ant2	2462	2.03	2.53	80.24	0.96
11N20MIMO	Ant1	2412	1.89	2.39	79.08	1.02
11N20MIMO	Ant2	2412	1.89	2.39	79.08	1.02
11N20MIMO	Ant1	2437	1.88	2.39	78.66	1.04
11N20MIMO	Ant2	2437	1.89	2.39	79.08	1.02
11N20MIMO	Ant1	2462	1.89	2.39	79.08	1.02
11N20MIMO	Ant2	2462	1.89	2.39	79.08	1.02
11N40MIMO	Ant1	2422	0.93	1.43	65.03	1.87
11N40MIMO	Ant2	2422	0.93	1.43	65.03	1.87
11N40MIMO	Ant1	2437	0.93	1.43	65.03	1.87
11N40MIMO	Ant2	2437	0.91	1.43	63.64	1.96
11N40MIMO	Ant1	2452	0.93	1.43	65.03	1.87
11N40MIMO	Ant2	2452	0.92	1.43	64.34	1.92

Test Graphs



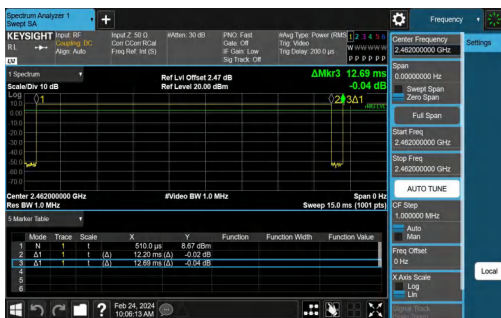
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NTNV-11B-CDD-Ant2-2437



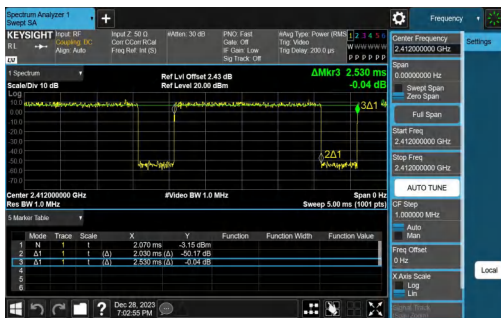
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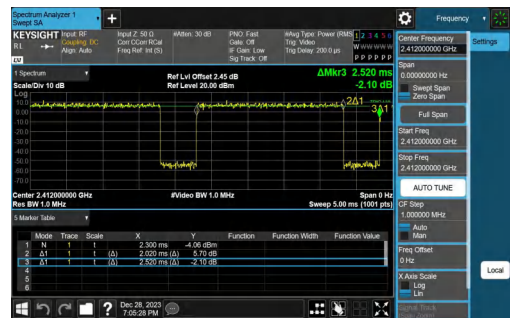
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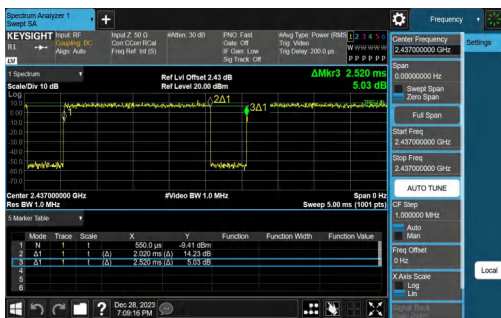
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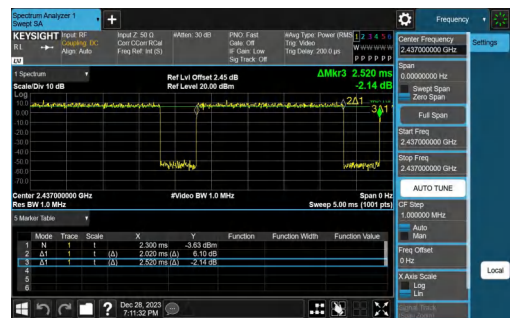
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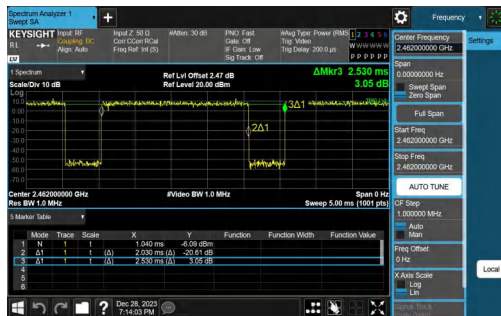
NTNV-11G-CDD-Ant1-2437



NTNV-11G-CDD-Ant2-2437



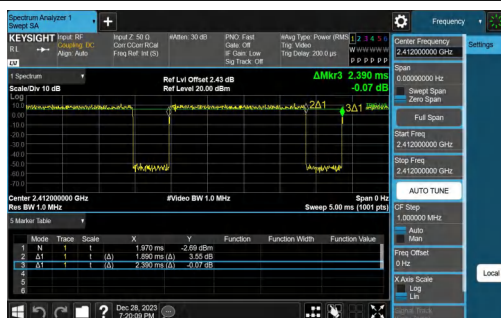
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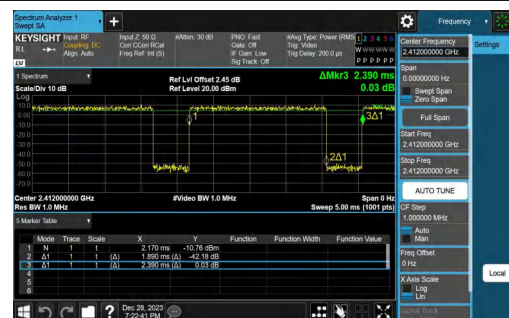
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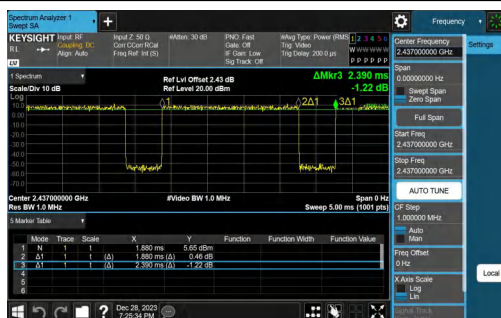
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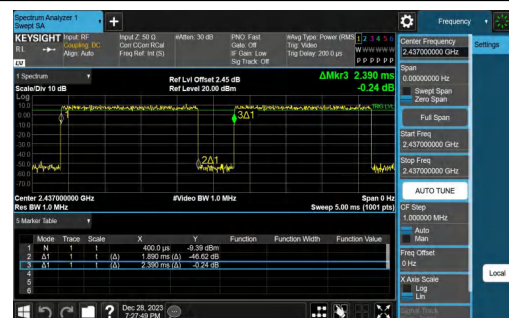
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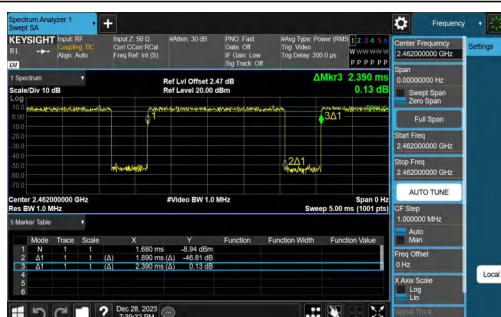
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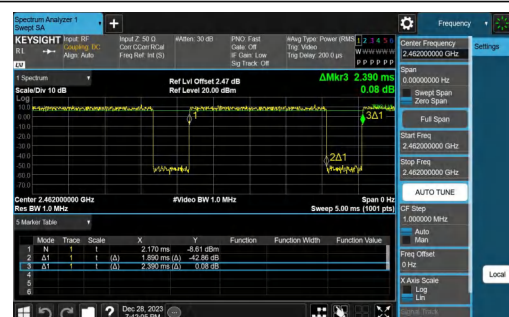
NTNV-11N20MIMO-Ant2-2437



NTNV-11N20MIMO-Ant1-2462



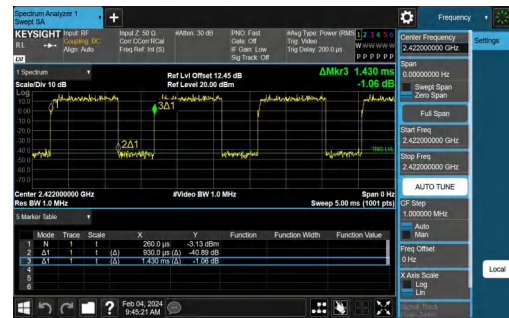
NTNV-11N20MIMO-Ant2-2462



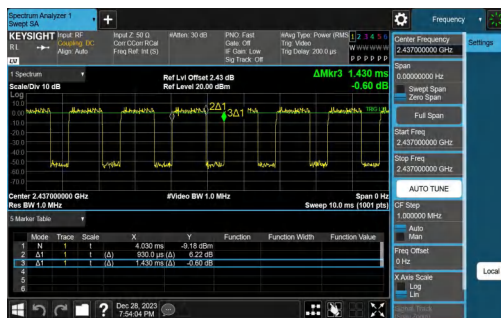
NTNV-11N40MIMO-Ant1-2422



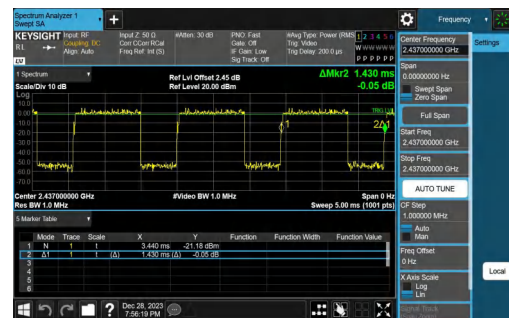
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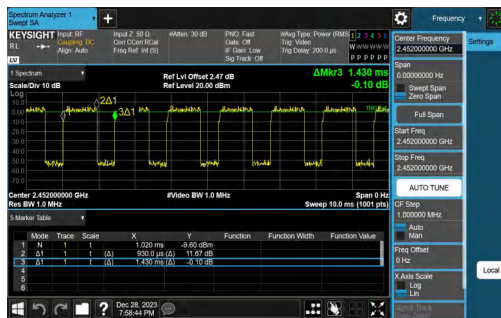
NTNV-11N40MIMO-Ant1-2437



NTNV-11N40MIMO-Ant2-2437



NTNV-11N40MIMO-Ant1-2452



NTNV-11N40MIMO-Ant2-2452



Appendix C – The EUT Appearance

Refer to “Attachment 1: External Photograph” and “ Attachment 2: Internal Photograph” file.

Appendix D – Test Setup Photograph

Refer to “Attachment 5: RF Test Setup Photograph” file.

*****End of the Report*****