

A.3 DTS/OCCUPIED BANDWIDTH

Test Date	2024/10/23 ~ 11/15	Temp./Hum.	24-25°C/56-57%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.3.1 DTS/Occupied Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)		Occupied (99%) Bandwidth (MHz)		Limit
		AUX	Main	AUX	Main	
802.11b	2412	9.075	9.082	13.466	13.424	>500kHz
	2442	9.070	9.059	13.471	13.404	
	2462	9.063	9.068	13.490	13.410	
	2472	9.075	9.055	13.457	13.437	
802.11g	2412	15.17	15.34	16.699	16.794	
	2442	15.17	15.34	16.842	16.723	
	2462	15.17	15.34	16.791	16.712	
	2472	16.39	16.39	16.391	16.390	
802.11n-HT20	2412	15.99	15.74	17.820	17.791	
	2442	15.16	15.16	17.800	17.774	
	2462	15.16	15.93	17.792	17.800	
	2472	17.61	17.63	17.557	17.587	
802.11n-HT40	2422	35.46	35.74	36.133	36.009	
	2442	35.18	35.73	36.161	36.063	
	2452	35.19	35.74	36.144	36.120	
	2462	36.41	36.41	36.225	36.171	
802.11ax-HE20	2412	16.92	17.92	18.950	18.949	
	2442	16.99	16.01	18.966	18.931	
	2462	16.75	16.30	18.918	18.938	
	2472	18.65	18.62	18.736	18.753	
802.11ax-HE40	2422	37.28	36.45	37.603	37.661	
	2442	36.95	36.05	37.557	37.591	
	2452	37.27	32.25	37.598	37.600	
	2462	38.04	37.73	37.618	37.632	
802.11be-EHT20	2412	16.66	15.16	18.995	18.953	
	2442	15.49	17.73	18.977	18.971	
	2462	17.82	15.19	18.920	18.948	
	2472	18.59	18.61	18.771	18.771	
802.11be-EHT40	2422	36.78	35.79	37.603	37.650	
	2442	37.13	35.95	37.596	37.657	
	2452	37.25	36.16	37.592	37.646	
	2462	38.03	37.63	37.657	37.606	

Note: We only presented the middle channel plots for each test mode.

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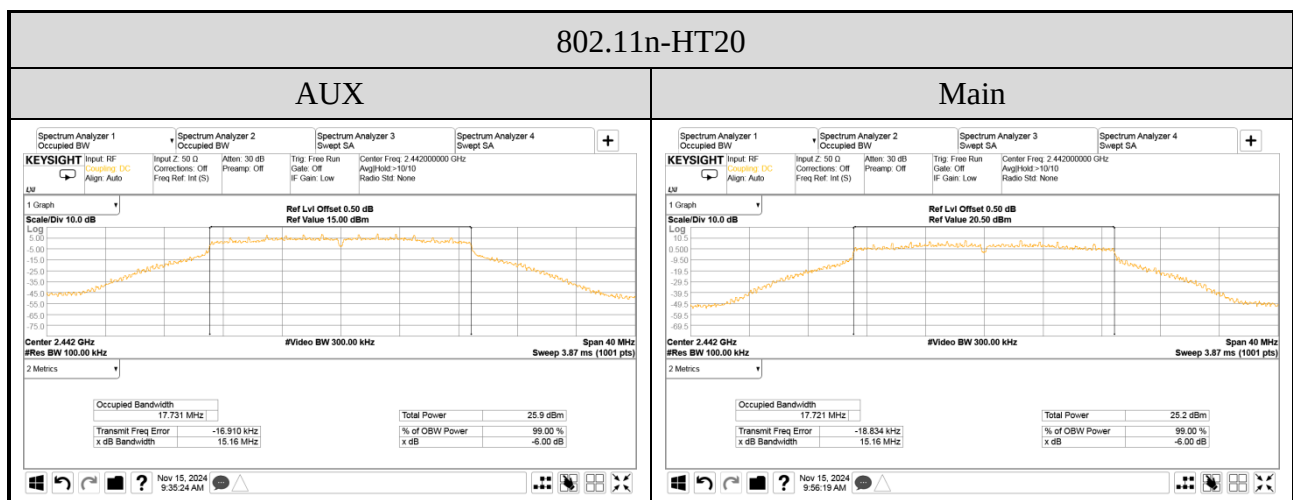
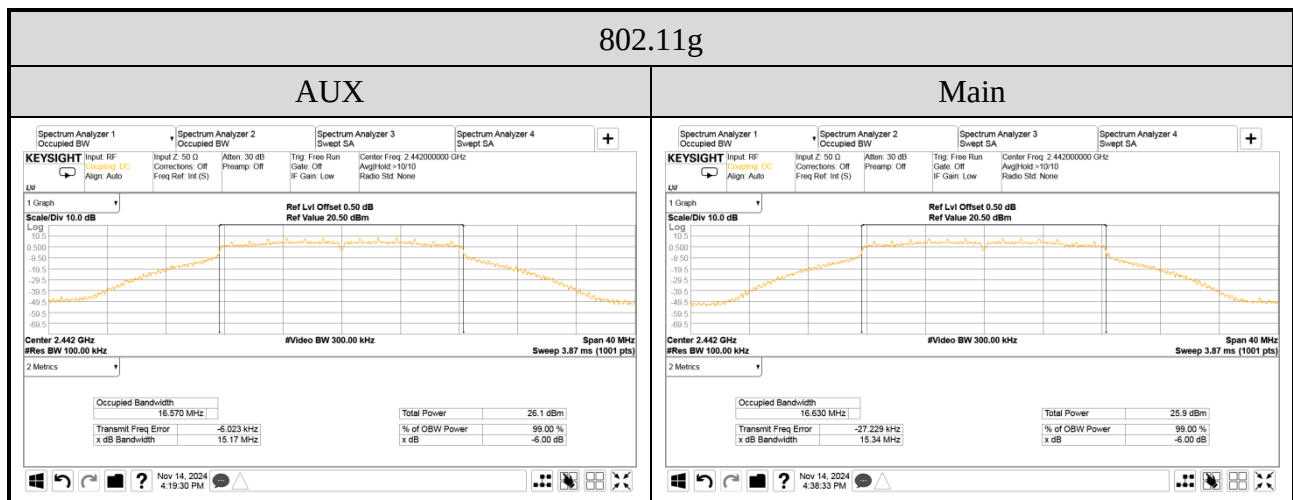
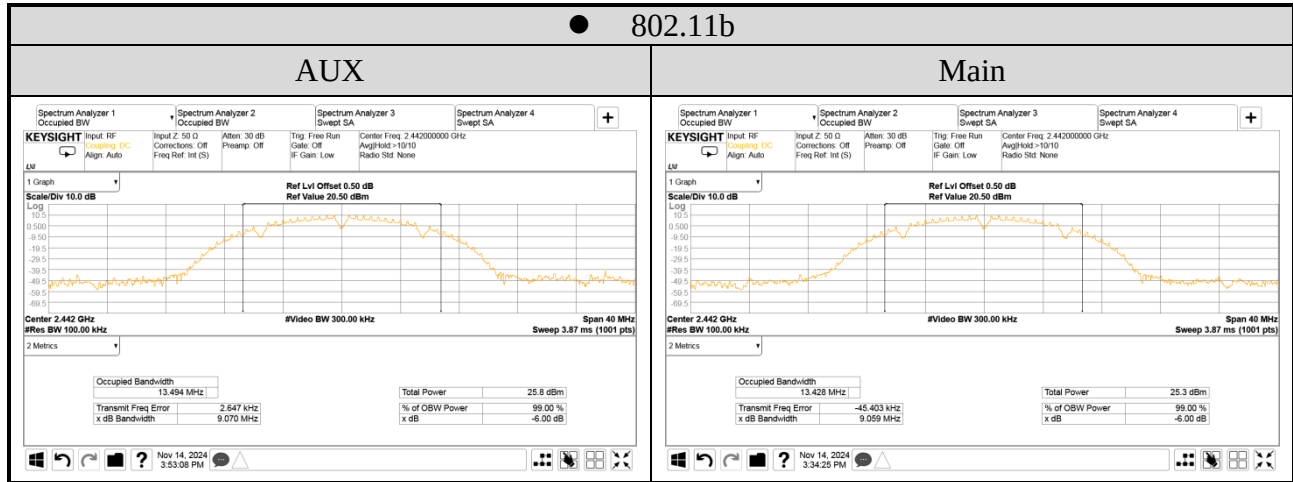
Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
BLE (1Mbps)	2402	0.6601	1.0073	>500kHz
	2440	0.6601	1.0114	
	2480	0.6599	1.0093	
BLE (2Mbps)	2402	1.165	2.0301	>500kHz
	2440	1.172	2.0361	
	2480	1.169	2.0290	
BLE (PHY Coded S2)	2402	0.6565	1.0080	>500kHz
	2440	0.5178	1.0382	
	2480	0.6570	1.0094	
BLE (PHY Coded S8)	2402	0.6727	1.0371	>500kHz
	2440	0.6798	1.0406	
	2480	0.6759	1.0441	

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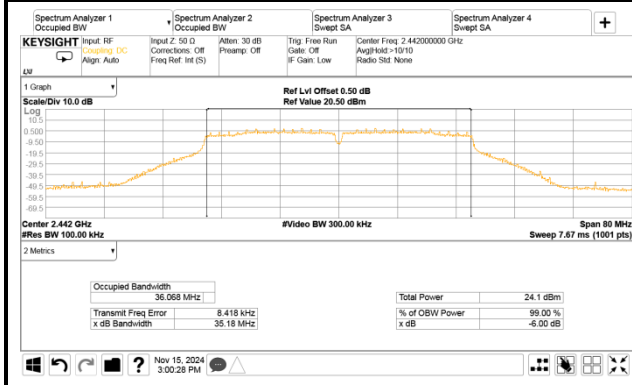
A.3.2 Measurement Plots

● DTS (6dB) Bandwidth

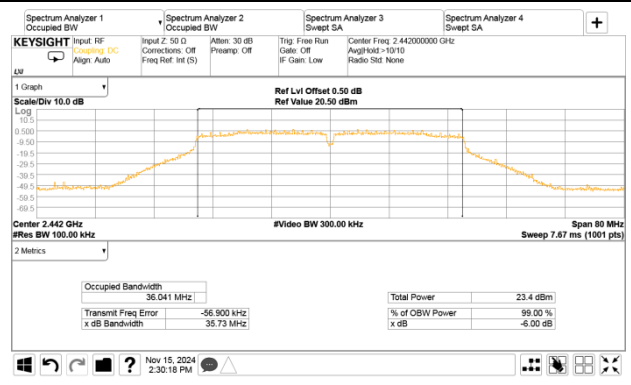


802.11n-HT40

AUX

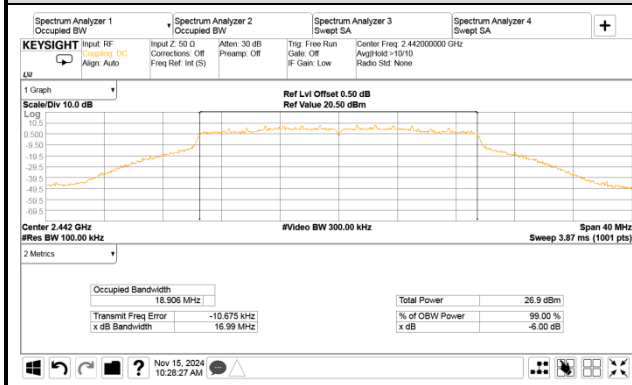


Main

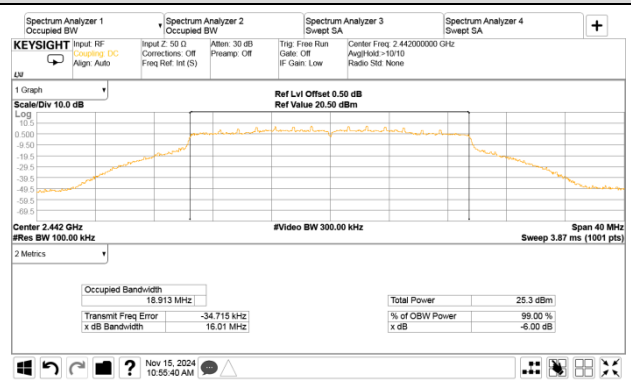


802.11ax-HE20

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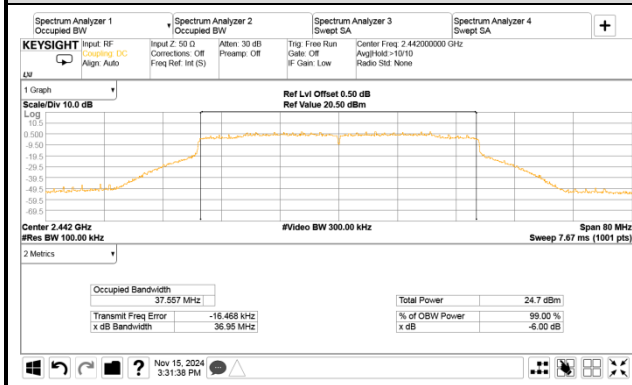


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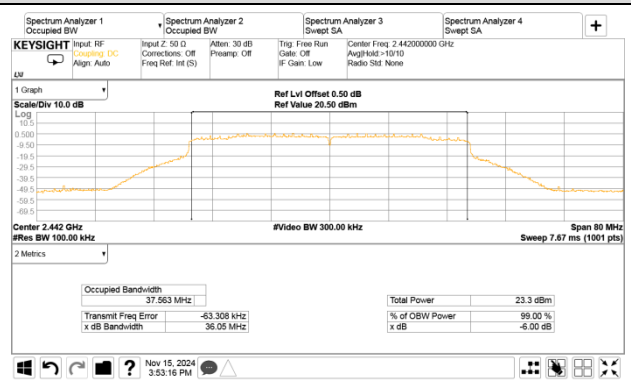


802.11ax-HE40

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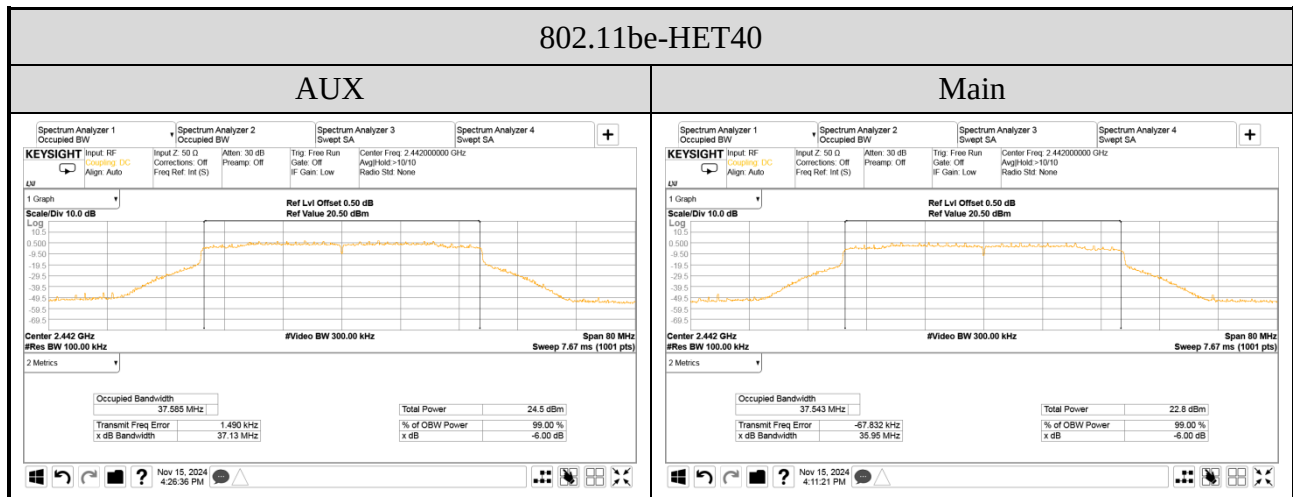
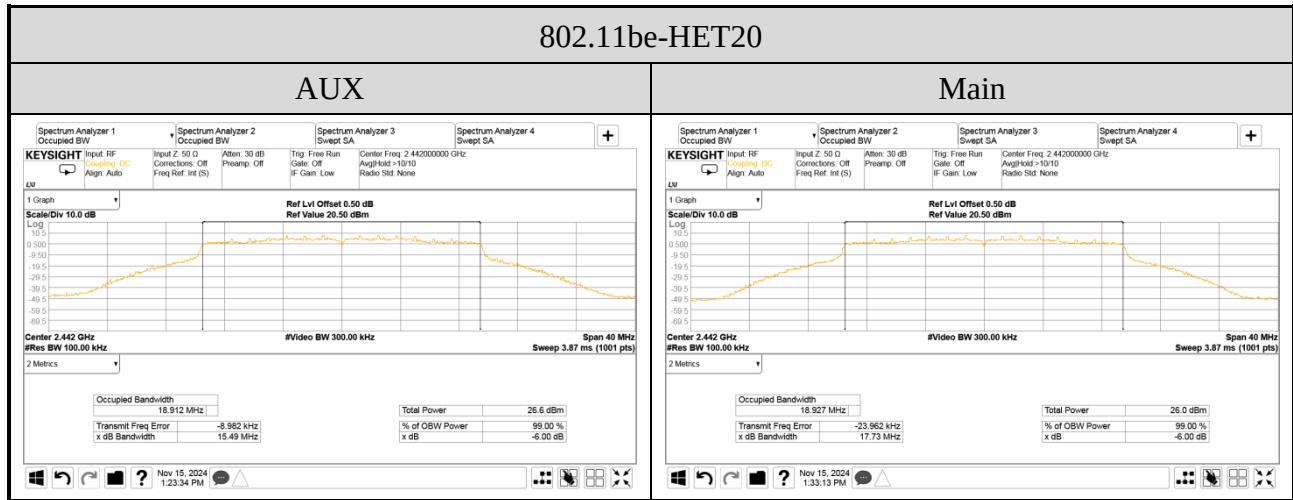


Main



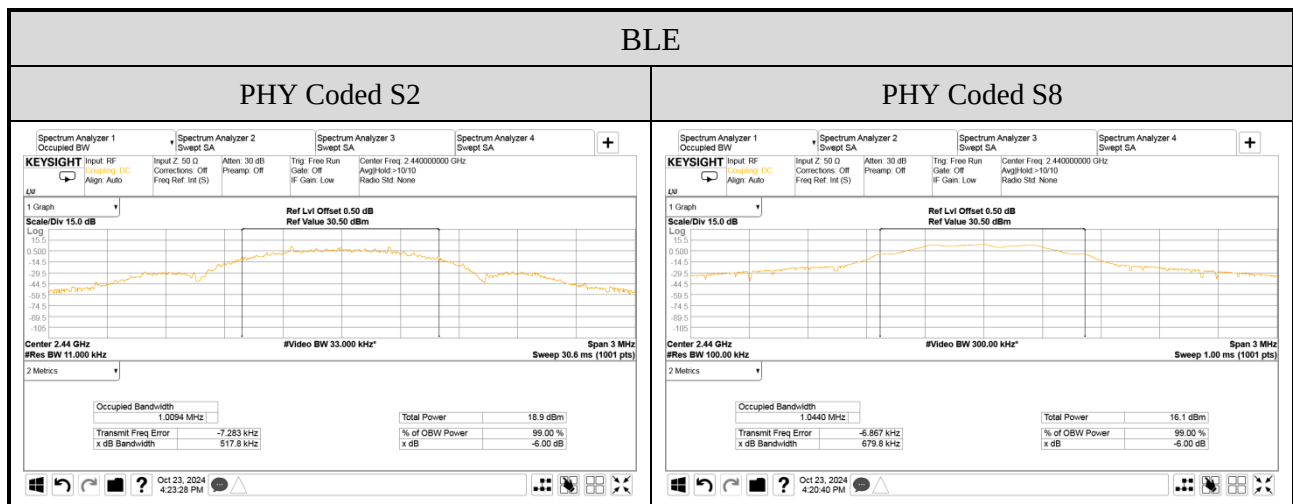
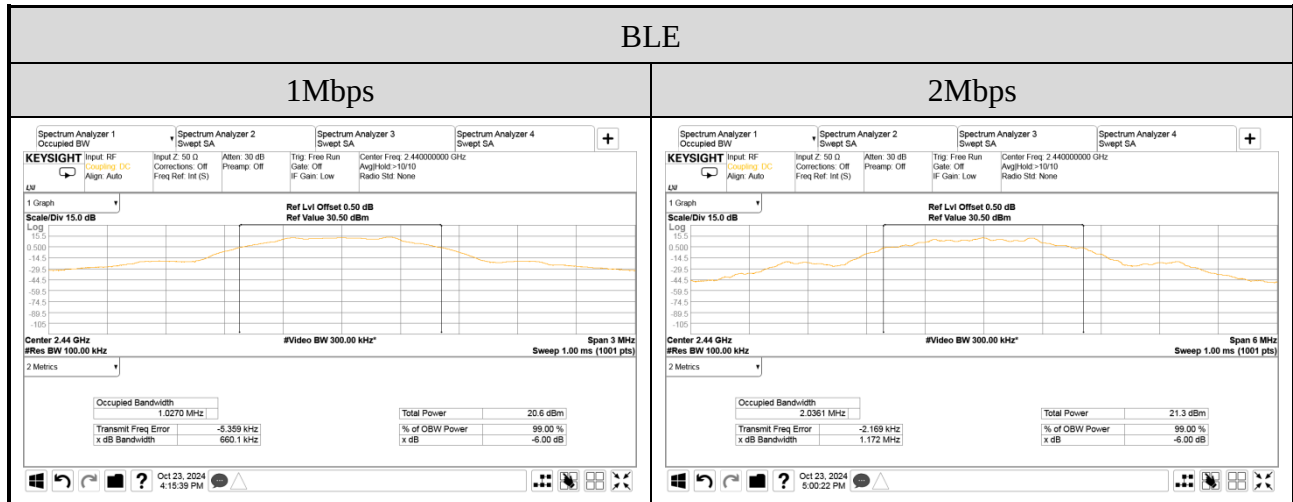
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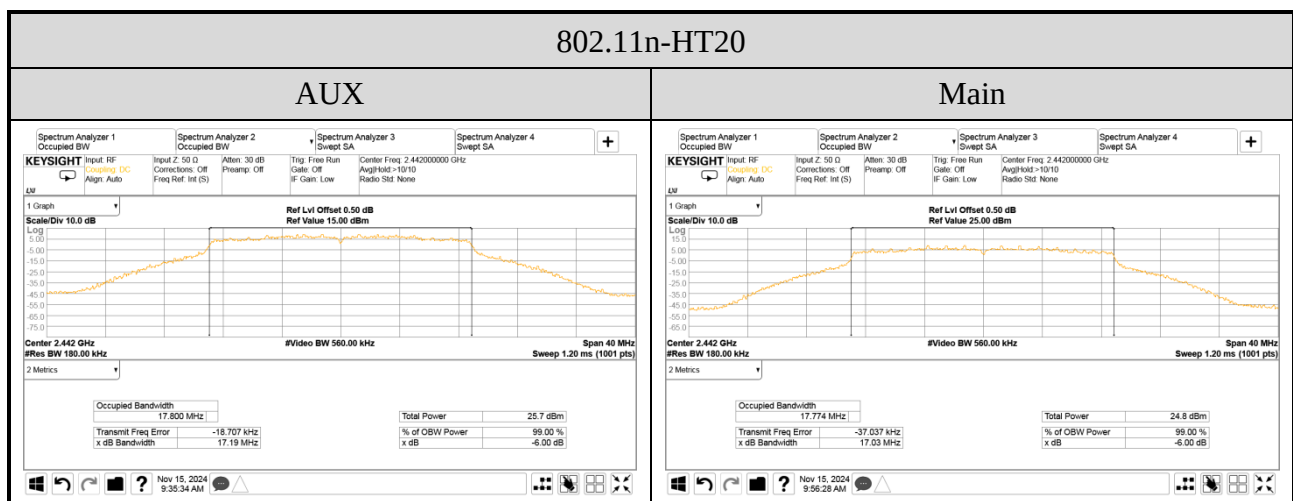
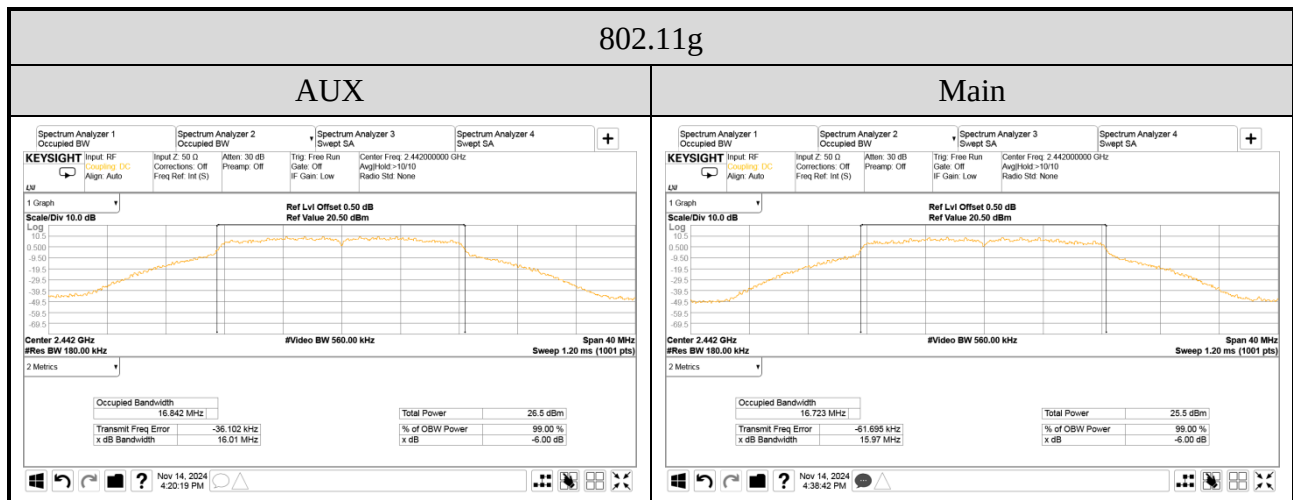
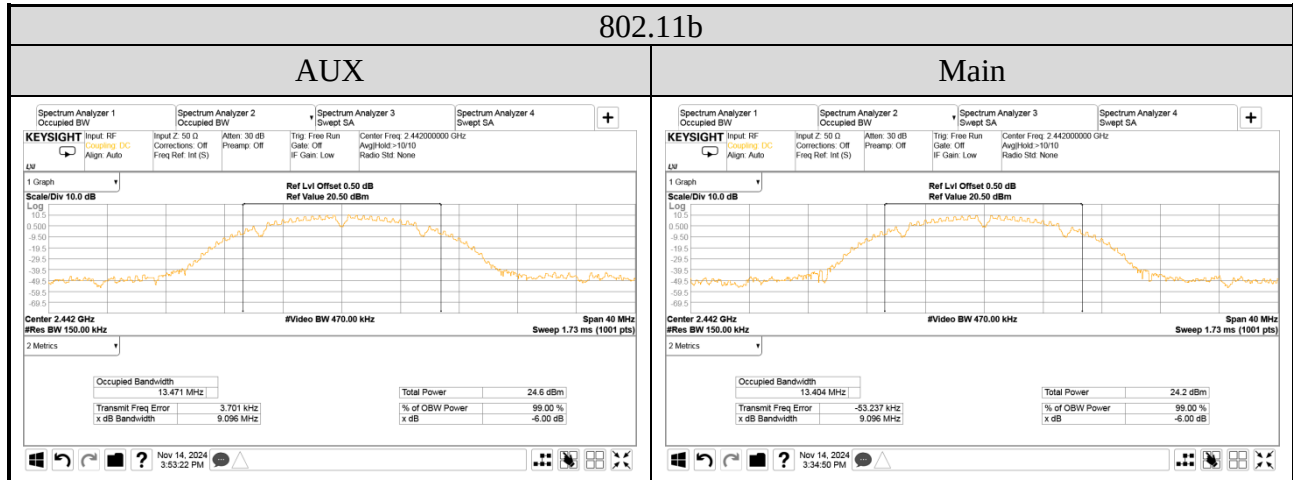
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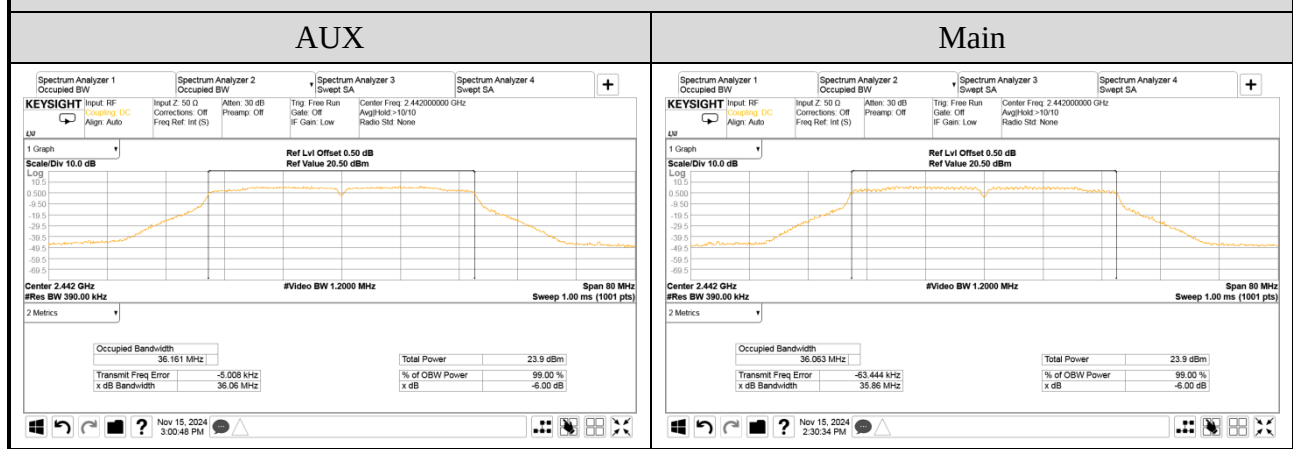
● Occupied (99%) Bandwidth



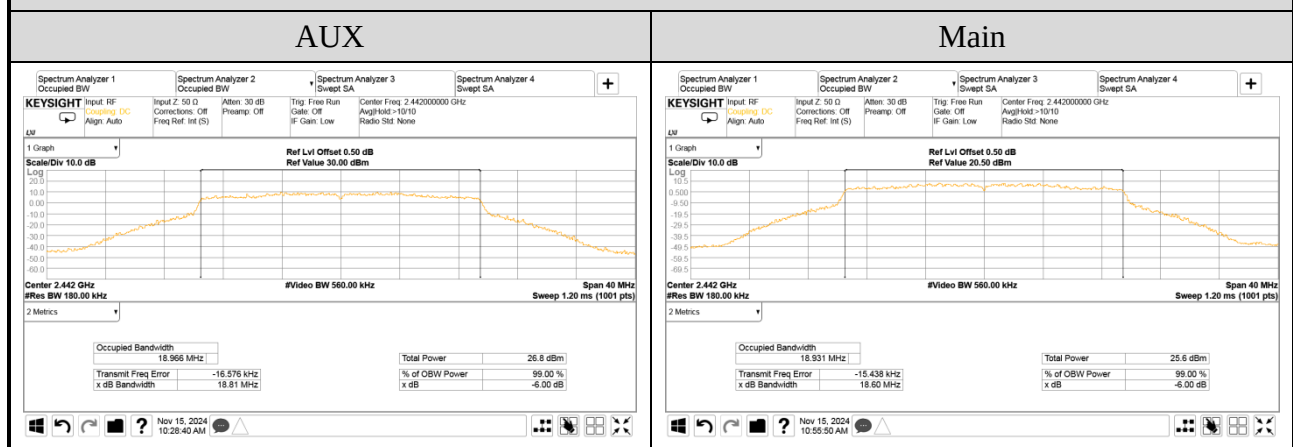
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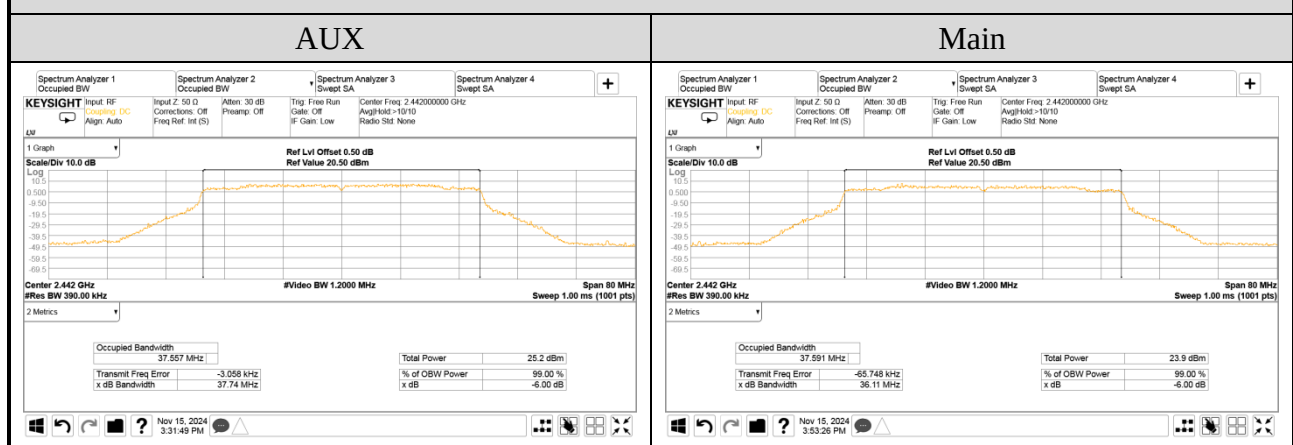
802.11n-HT40

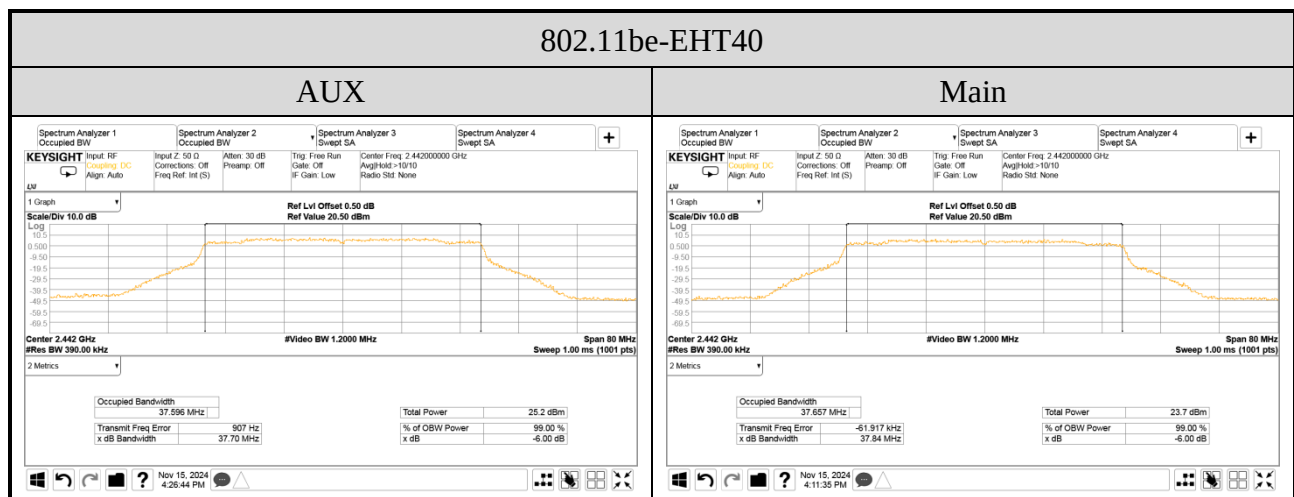
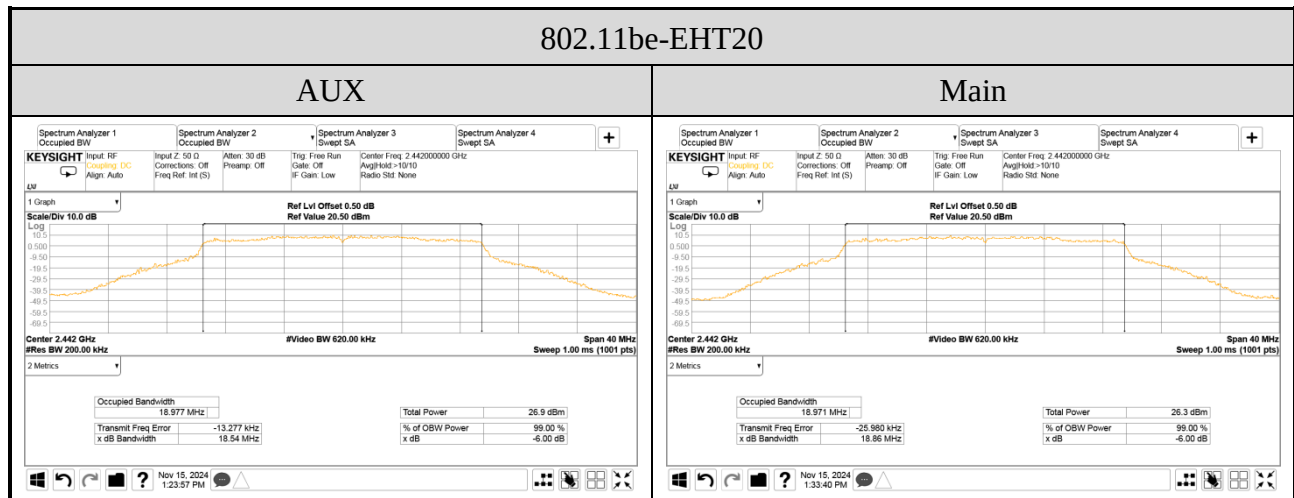


802.11ax-HE20



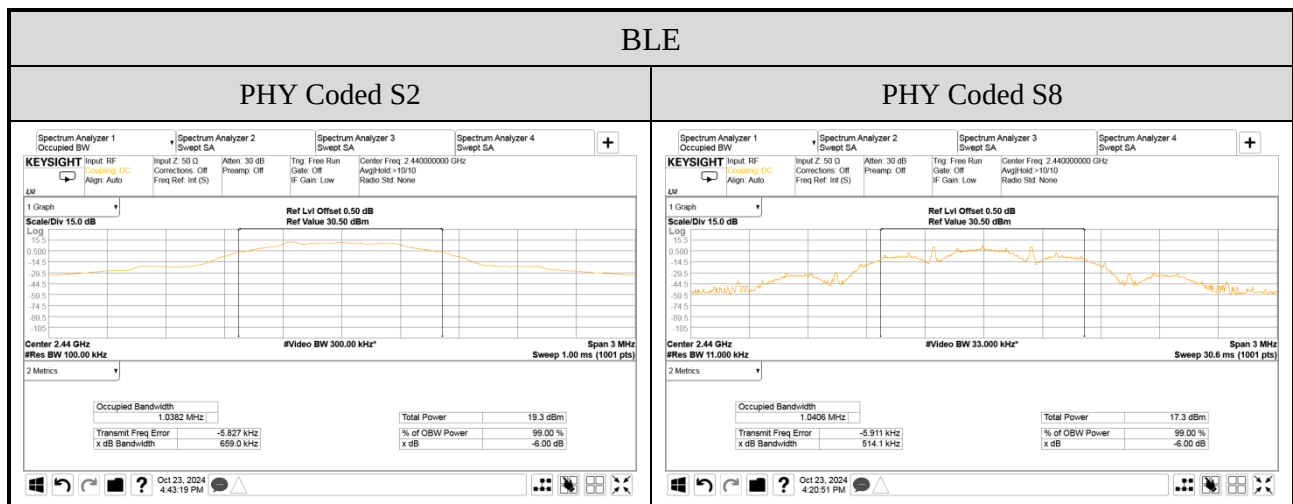
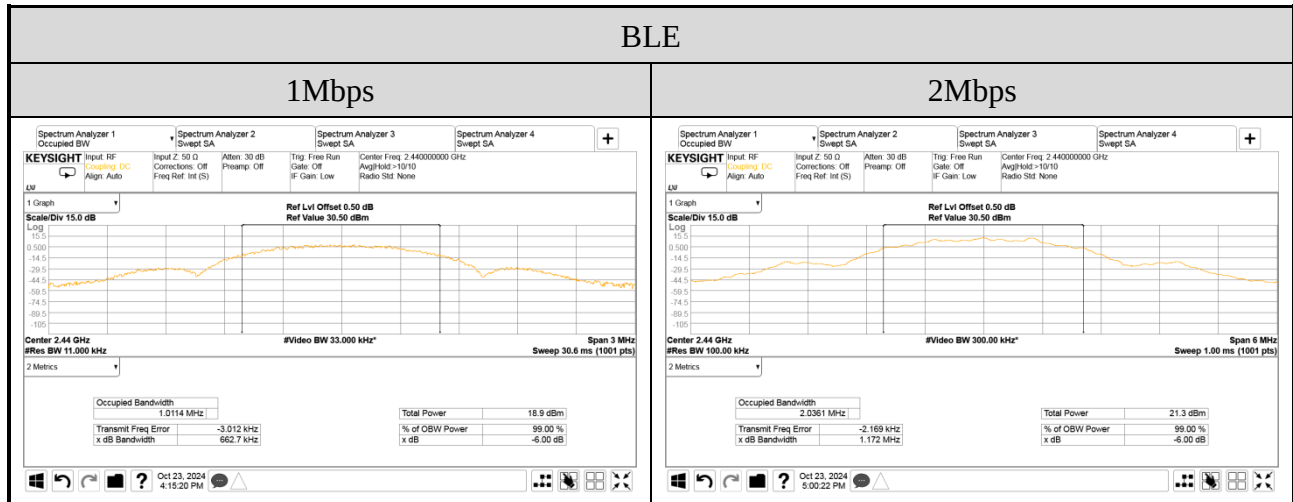
802.11ax-HE40





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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/10/23 ~ 11/06	Temp./Hum.	24°C/57-59%
Cable Loss	0.50dB	Tested By	Kuper Hsu
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.4.1 Peak Output Power

Test SKU: SKU #1 (With INPAQ ANT)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main		Aux	Main		
802.11b	2412	19.48	20.77	20.77	2.40	2.20	22.97	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	19.16	20.32	20.32	2.40	2.20	22.52	
	2422	19.92	20.79	20.79	2.40	2.20	22.99	
	2442	21.43	20.49	21.43	2.40	2.20	23.83	
	2467	21.04	20.55	21.04	2.40	2.20	23.44	
	2472	18.67	18.80	18.80	2.40	2.20	21.07	
802.11g	2412	23.78	23.13	23.78	2.40	2.20	26.18	
	2417	24.08	23.34	24.08	2.40	2.20	26.48	
	2442	24.50	23.43	24.50	2.40	2.20	26.90	
	2472	24.30	24.57	24.57	2.40	2.20	26.77	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P. Note 4 (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	22.04	21.57	24.82	2.30	27.12	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	23.69	23.32	26.52	2.30	28.82	
	2442	24.29	23.50	26.92	2.30	29.22	
	2462	21.15	18.29	22.96	2.30	25.26	
	2467	18.19	17.33	20.79	2.30	23.09	
	2472	22.66	23.03	25.86	2.30	28.16	
802.11n-HT40	2422	20.38	20.29	23.35	2.30	25.65	
	2427	20.67	20.40	23.55	2.30	25.85	
	2432	22.19	22.15	25.18	2.30	27.48	
	2442	21.90	21.81	24.87	2.30	27.17	
	2447	20.91	20.85	23.89	2.30	26.19	
	2452	20.05	19.84	22.96	2.30	25.26	
802.11ax- HE20	2462	23.07	22.88	25.99	2.30	28.29	
	2412	21.91	21.05	24.51	2.30	26.81	
	2417	23.48	23.34	26.42	2.30	28.72	
	2442	23.64	23.40	26.53	2.30	28.83	
	2462	21.26	21.22	24.25	2.30	26.55	
802.11ax- HE40	2472	23.07	22.60	25.85	2.30	28.15	
	2422	20.69	20.59	23.65	2.30	25.95	
	2427	21.26	20.76	24.03	2.30	26.33	
	2432	22.66	22.29	25.49	2.30	27.79	
	2437	23.55	23.51	26.54	2.30	28.84	
	2442	21.96	21.44	24.71	2.30	27.01	
	2447	21.07	20.95	24.02	2.30	26.32	
	2452	20.51	20.29	23.41	2.30	25.71	
	2462	23.14	22.19	25.70	2.30	28.00	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P ^{Note 4} (dBm)	Limit
		Aux	Main				
802.11be- EHT20	2412	21.46	20.74	24.12	2.30	26.42	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	23.73	23.30	26.53	2.30	28.83	
	2442	24.51	23.15	26.89	2.30	29.19	
	2462	21.83	21.13	24.50	2.30	26.80	
	2472	23.32	22.01	25.72	2.30	28.02	
802.11be- EHT40	2422	20.66	20.63	23.65	2.30	25.95	
	2427	21.06	21.12	24.10	2.30	26.40	
	2432	22.09	22.10	25.10	2.30	27.40	
	2437	23.43	23.49	26.47	2.30	28.77	
	2442	21.78	21.59	24.69	2.30	26.99	
	2447	21.28	20.97	24.13	2.30	26.43	
	2452	20.58	20.24	23.42	2.30	25.72	
	2462	23.06	22.75	25.92	2.30	28.22	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G^1/10} + 10^{G^2/10} + \dots + 10^{G^N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P ^{Note 4} (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/0	23.98	23.01	26.53	2.30	28.83	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	23.65	23.32	26.50	2.30	28.80	
		106/53	23.62	23.04	26.35	2.30	28.65	
	2472	26/8	16.76	16.05	19.43	2.30	21.73	
		52/40	15.36	14.73	18.07	2.30	20.37	
		106/54	21.30	20.55	23.95	2.30	26.25	
802.11ax-HE40	2422	242/61	22.20	21.34	24.80	2.30	27.10	
	2462	242/62	24.14	24.32	27.24	2.30	29.54	
802.11be-EHT20	2412	26/0	23.80	23.00	26.43	2.30	28.73	
		52/37	22.81	22.98	25.91	2.30	28.21	
		106/53	23.52	23.01	26.28	2.30	28.58	
	2472	26/8	14.89	14.42	17.67	2.30	19.97	
		52/40	14.31	13.60	16.98	2.30	19.28	
		106/54	19.96	19.07	22.55	2.30	24.85	
802.11be-EHT40	2422	242/61	22.61	21.83	25.25	2.30	27.55	
	2462	242/62	24.04	23.20	26.65	2.30	28.95	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) ^{Note2}	Limit
		Aux	Aux		
BLE (1Mbps)	2402	13.89	2.20	16.09	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	13.96	2.20	16.16	
	2480	13.98	2.20	16.18	
BLE (2Mbps)	2402	13.97	2.20	16.17	
	2440	13.98	2.20	16.18	
	2480	14.02	2.20	16.22	
BLE (PHY Coded S2)	2402	12.77	2.20	14.97	
	2440	12.59	2.20	14.79	
	2480	12.89	2.20	15.09	
BLE (PHY Coded S8)	2402	12.66	2.20	14.86	
	2440	12.79	2.20	14.99	
	2480	13.09	2.20	15.29	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

Test SKU: SKU #1 (With LUXSHARE-ICT ANT)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P. (dBm) ^{Note 2}	Limit
		Aux	Main		Aux	Main		
802.11b	2412	19.48	20.77	20.77	0.10	1.40	22.17	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	19.16	20.32	20.32	0.10	1.40	21.72	
	2422	19.92	20.79	20.79	0.10	1.40	22.19	
	2442	21.43	20.49	21.43	0.10	1.40	21.89	
	2467	21.04	20.55	21.04	0.10	1.40	21.95	
	2472	18.67	18.80	18.80	0.10	1.40	20.20	
802.11g	2412	23.78	23.13	23.78	0.10	1.40	24.53	
	2417	24.08	23.34	24.08	0.10	1.40	24.74	
	2442	24.50	23.43	24.50	0.10	1.40	24.83	
	2472	24.30	24.57	24.57	0.10	1.40	25.97	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P ^{Note 4} (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	22.04	21.57	24.82	0.80	25.62	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	23.69	23.32	26.52	0.80	27.32	
	2442	24.29	23.50	26.92	0.80	27.72	
	2462	21.15	18.29	22.96	0.80	23.76	
	2467	18.19	17.33	20.79	0.80	21.59	
	2472	22.66	23.03	25.86	0.80	26.66	
802.11n-HT40	2422	20.38	20.29	23.35	0.80	24.15	
	2427	20.67	20.40	23.55	0.80	24.35	
	2432	22.19	22.15	25.18	0.80	25.98	
	2442	21.90	21.81	24.87	0.80	25.67	
	2447	20.91	20.85	23.89	0.80	24.69	
	2452	20.05	19.84	22.96	0.80	23.76	
802.11ax- HE20	2462	23.07	22.88	25.99	0.80	26.79	
	2412	21.91	21.05	24.51	0.80	25.31	
	2417	23.48	23.34	26.42	0.80	27.22	
	2442	23.64	23.40	26.53	0.80	27.33	
	2462	21.26	21.22	24.25	0.80	25.05	
802.11ax- HE40	2472	23.07	22.60	25.85	0.80	26.65	
	2422	20.69	20.59	23.65	0.80	24.45	
	2427	21.26	20.76	24.03	0.80	24.83	
	2432	22.66	22.29	25.49	0.80	26.29	
	2437	23.55	23.51	26.54	0.80	27.34	
	2442	21.96	21.44	24.71	0.80	25.51	
	2447	21.07	20.95	24.02	0.80	24.82	
	2452	20.51	20.29	23.41	0.80	24.21	
	2462	23.14	22.19	25.70	0.80	26.50	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P. ^{Note 4} (dBm)	Limit
		Aux	Main				
802.11be- EHT20	2412	21.46	20.74	24.12	0.80	24.92	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	23.73	23.30	26.53	0.80	27.33	
	2442	24.51	23.15	26.89	0.80	27.69	
	2462	21.83	21.13	24.50	0.80	25.30	
	2472	23.32	22.01	25.72	0.80	26.52	
802.11be- EHT40	2422	20.66	20.63	23.65	0.80	24.45	
	2427	21.06	21.12	24.10	0.80	24.90	
	2432	22.09	22.10	25.10	0.80	25.90	
	2437	23.43	23.49	26.47	0.80	27.27	
	2442	21.78	21.59	24.69	0.80	25.49	
	2447	21.28	20.97	24.13	0.80	24.93	
	2452	20.58	20.24	23.42	0.80	24.22	
	2462	23.06	22.75	25.92	0.80	26.72	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P. Note 4 (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/0	23.98	23.01	26.53	0.80	27.33	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	23.65	23.32	26.50	0.80	27.30	
		106/53	23.62	23.04	26.35	0.80	27.15	
	2472	26/8	16.76	16.05	19.43	0.80	20.23	
		52/40	15.36	14.73	18.07	0.80	18.87	
		106/54	21.30	20.55	23.95	0.80	24.75	
802.11ax-HE40	2422	242/61	22.20	21.34	24.80	0.80	25.60	
	2462	242/62	24.14	24.32	27.24	0.80	28.04	
802.11be-EHT20	2412	26/0	23.80	23.00	26.43	0.80	27.23	
		52/37	22.81	22.98	25.91	0.80	26.71	
		106/53	23.52	23.01	26.28	0.80	27.08	
	2472	26/8	14.89	14.42	17.67	0.80	18.47	
		52/40	14.31	13.60	16.98	0.80	17.78	
		106/54	19.96	19.07	22.55	0.80	23.35	
802.11be-EHT40	2422	242/61	22.61	21.83	25.25	0.80	26.05	
	2462	242/62	24.04	23.20	26.65	0.80	27.45	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) ^{Note2}	Limit
		Aux	Aux		
BLE (1Mbps)	2402	13.89	1.40	15.29	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	13.96	1.40	15.36	
	2480	13.98	1.40	15.38	
BLE (2Mbps)	2402	13.97	1.40	15.37	
	2440	13.98	1.40	15.38	
	2480	14.02	1.40	15.42	
BLE (PHY Coded S2)	2402	12.77	1.40	14.17	
	2440	12.59	1.40	13.99	
	2480	12.89	1.40	14.29	
BLE (PHY Coded S8)	2402	12.66	1.40	14.06	
	2440	12.79	1.40	14.19	
	2480	13.09	1.40	14.49	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

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A.4.2 Average Output Power (Reporting only)

Test SKU: SKU #1 (With INPAQ ANT)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main			Aux	Main		
802.11b	2412	17.22	17.85	N/A	17.85	2.40	2.20	20.05	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.27	17.42		17.42	2.40	2.20	19.67	
	2422	17.53	17.92		17.92	2.40	2.20	20.12	
	2442	18.88	18.68		18.88	2.40	2.20	21.28	
	2467	17.80	18.04		18.04	2.40	2.20	20.24	
	2472	16.30	16.57		16.57	2.40	2.20	18.77	
802.11g	2412	18.82	18.28	N/A	18.82	2.40	2.20	21.22	
	2417	18.13	18.57		18.57	2.40	2.20	20.77	
	2442	18.42	17.72		18.42	2.40	2.20	20.82	
	2472	12.99	13.37		13.37	2.40	2.20	15.57	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P) Note 4 (dBm)	Limit
		Aux	Main					
802.11n- HT20	2412	16.69	16.97	N/A	19.84	2.30	22.14	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	18.13	18.45		21.30	2.30	23.60	
	2442	18.82	18.65		21.75	2.30	24.05	
	2462	15.93	10.29		16.98	2.30	19.28	
	2467	13.03	12.23		15.66	2.30	17.96	
	2472	12.06	11.74		14.91	2.30	17.21	
802.11n- HT40	2422	14.48	13.30	N/A	16.94	2.30	19.24	
	2427	14.52	14.47		17.51	2.30	19.81	
	2432	16.25	16.04		19.16	2.30	21.46	
	2442	15.90	15.56		18.74	2.30	21.04	
	2447	14.71	14.52		17.63	2.30	19.93	
	2452	14.22	14.01		17.13	2.30	19.43	
	2462	12.51	11.69		15.13	2.30	17.43	
802.11ax- HE20	2412	16.66	15.91	N/A	19.31	2.30	21.61	
	2417	18.07	18.18		21.14	2.30	23.44	
	2442	18.58	17.82		21.23	2.30	23.53	
	2462	16.14	15.77		18.96	2.30	21.26	
	2472	11.81	11.36		14.60	2.30	16.90	
802.11ax- HE40	2422	15.35	14.51	N/A	17.96	2.30	20.26	
	2427	15.27	15.28		18.29	3.30	21.59	
	2432	16.31	16.18		19.25	4.30	23.55	
	2437	17.66	17.42		20.55	5.30	25.85	
	2442	15.40	15.88		18.65	6.30	24.95	
	2447	14.87	14.91		17.90	7.30	25.20	
	2452	14.06	14.25		17.17	8.30	25.47	
	2462	12.36	11.63		15.02	9.30	24.32	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P.) Note 4 (dBm)	Limit
		Aux	Main					
802.11be-EHT20	2412	16.37	15.41	N/A	18.92	2.30	21.22	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.75	18.14		20.96	2.30	23.26	
	2442	18.84	18.42		21.65	2.30	23.95	
	2462	16.20	16.15		19.18	2.30	21.48	
	2472	11.78	11.40		14.60	2.30	16.90	
802.11be-EHT40	2422	14.55	14.27	N/A	17.42	2.30	19.72	
	2427	14.57	14.64		17.62	2.30	19.92	
	2432	15.59	15.67		18.64	2.30	20.94	
	2437	16.98	17.03		20.02	2.30	22.32	
	2442	15.32	15.50		18.42	2.30	20.72	
	2447	14.42	14.56		17.50	2.30	19.80	
	2452	13.81	13.96		16.90	2.30	19.20	
	2462	12.57	11.37		15.02	2.30	17.32	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	RU Configuration	Average Output Power (dBm)		Duty cycle factor (dB) 10log	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P) Note 4	Limit
			Aux	Main					
802.11ax-HE20	2412	26/0	18.34	18.78	N/A	21.58	2.30	23.88	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	18.83	18.35	N/A	21.61	2.30	23.91	
		106/53	18.50	18.24	N/A	21.38	2.30	23.68	
	2472	26/8	2.99	2.54	N/A	5.78	2.30	8.08	
		52/40	1.93	1.16	N/A	4.57	2.30	6.87	
		106/54	8.35	8.14	N/A	11.26	2.30	13.56	
802.11ax-HE40	2422	242/61	17.13	16.58	N/A	19.87	2.30	22.17	
	2462	242/62	12.11	11.58	N/A	14.86	2.30	17.16	
802.11be-EHT20	2412	26/0	18.91	18.39	N/A	21.67	2.30	23.97	
		52/37	18.60	18.10	N/A	21.37	2.30	23.67	
		106/53	18.78	18.60	N/A	21.70	2.30	24.00	
	2472	26/8	2.45	1.80	N/A	5.15	2.30	7.45	
		52/40	2.36	1.48	N/A	4.95	2.30	7.25	
		106/54	8.09	7.39	N/A	10.76	2.30	13.06	
802.11be-EHT40	2422	242/61	17.50	16.95	N/A	20.24	2.30	22.54	
	2462	242/62	12.12	11.53	N/A	14.85	2.30	17.15	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{2.4/10} + 10^{2.2/10})/2] = 2.30 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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Test SKU: SKU #1 (With LUXSHARE-ICT ANT)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main			Aux	Main		
802.11b	2412	17.22	17.85	N/A	17.85	0.10	1.40	19.25	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.27	17.42		17.42	0.10	1.40	18.82	
	2422	17.53	17.92		17.92	0.10	1.40	19.32	
	2442	18.88	18.68		18.88	0.10	1.40	20.08	
	2467	17.80	18.04		18.04	0.10	1.40	19.44	
	2472	16.30	16.57		16.57	0.10	1.40	17.97	
802.11g	2412	18.82	18.28	N/A	18.82	0.10	1.40	19.68	
	2417	18.13	18.57		18.57	0.10	1.40	19.97	
	2442	18.42	17.72		18.42	0.10	1.40	19.12	
	2472	12.99	13.37		13.37	0.10	1.40	14.77	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P) Note 4 (dBm)	Limit
		Aux	Main					
802.11n- HT20	2412	16.69	16.97	N/A	19.84	0.80	20.64	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	18.13	18.45		21.30	0.80	22.10	
	2442	18.82	18.65		21.75	0.80	22.55	
	2462	15.93	10.29		16.98	0.80	17.78	
	2467	13.03	12.23		15.66	0.80	16.46	
	2472	12.06	11.74		14.91	0.80	15.71	
802.11n- HT40	2422	14.48	13.30	N/A	16.94	0.80	17.74	
	2427	14.52	14.47		17.51	0.80	18.31	
	2432	16.25	16.04		19.16	0.80	19.96	
	2442	15.90	15.56		18.74	0.80	19.54	
	2447	14.71	14.52		17.63	0.80	18.43	
	2452	14.22	14.01		17.13	0.80	17.93	
	2462	12.51	11.69		15.13	0.80	15.93	
802.11ax- HE20	2412	16.66	15.91	N/A	19.31	0.80	20.11	
	2417	18.07	18.18		21.14	0.80	21.94	
	2442	18.58	17.82		21.23	0.80	22.03	
	2462	16.14	15.77		18.96	0.80	19.76	
	2472	11.81	11.36		14.60	0.80	15.40	
802.11ax- HE40	2422	15.35	14.51	N/A	17.96	0.80	18.76	
	2427	15.27	15.28		18.29	0.80	19.09	
	2432	16.31	16.18		19.25	0.80	20.05	
	2437	17.66	17.42		20.55	0.80	21.35	
	2442	15.40	15.88		18.65	0.80	19.45	
	2447	14.87	14.91		17.90	0.80	18.70	
	2452	14.06	14.25		17.17	0.80	17.97	
	2462	12.36	11.63		15.02	0.80	15.82	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P.) Note 4 (dBm)	Limit
		Aux	Main					
802.11be-EHT20	2412	16.37	15.41	N/A	18.92	0.80	19.72	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.75	18.14		20.96	0.80	21.76	
	2442	18.84	18.42		21.65	0.80	22.45	
	2462	16.20	16.15		19.18	0.80	19.98	
	2472	11.78	11.40		14.60	0.80	15.40	
802.11be-EHT40	2422	14.55	14.27	N/A	17.42	0.80	18.22	
	2427	14.57	14.64		17.62	0.80	18.42	
	2432	15.59	15.67		18.64	0.80	19.44	
	2437	16.98	17.03		20.02	0.80	20.82	
	2442	15.32	15.50		18.42	0.80	19.22	
	2447	14.42	14.56		17.50	0.80	18.30	
	2452	13.81	13.96		16.90	0.80	17.70	
	2462	12.57	11.37		15.02	0.80	15.82	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	RU Configuration	Average Output Power (dBm)		Duty cycle factor (dB) 10log	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P) Note 4	Limit
			Aux	Main					
802.11ax-HE20	2412	26/0	18.34	18.78	N/A	21.58	0.80	22.38	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	18.83	18.35	N/A	21.61	0.80	22.41	
		106/53	18.50	18.24	N/A	21.38	0.80	22.18	
	2472	26/8	2.99	2.54	N/A	5.78	0.80	6.58	
		52/40	1.93	1.16	N/A	4.57	0.80	5.37	
		106/54	8.35	8.14	N/A	11.26	0.80	12.06	
802.11ax-HE40	2422	242/61	17.13	16.58	N/A	19.87	0.80	20.67	
	2462	242/62	12.11	11.58	N/A	14.86	0.80	15.66	
802.11be-EHT20	2412	26/0	18.91	18.39	N/A	21.67	0.80	22.47	
		52/37	18.60	18.10	N/A	21.37	0.80	22.17	
		106/53	18.78	18.60	N/A	21.70	0.80	22.50	
	2472	26/8	2.45	1.80	N/A	5.15	0.80	5.95	
		52/40	2.36	1.48	N/A	4.95	0.80	5.75	
		106/54	8.09	7.39	N/A	10.76	0.80	11.56	
802.11be-EHT40	2422	242/61	17.50	16.95	N/A	20.24	0.80	21.04	
	2462	242/62	12.12	11.53	N/A	14.85	0.80	15.65	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

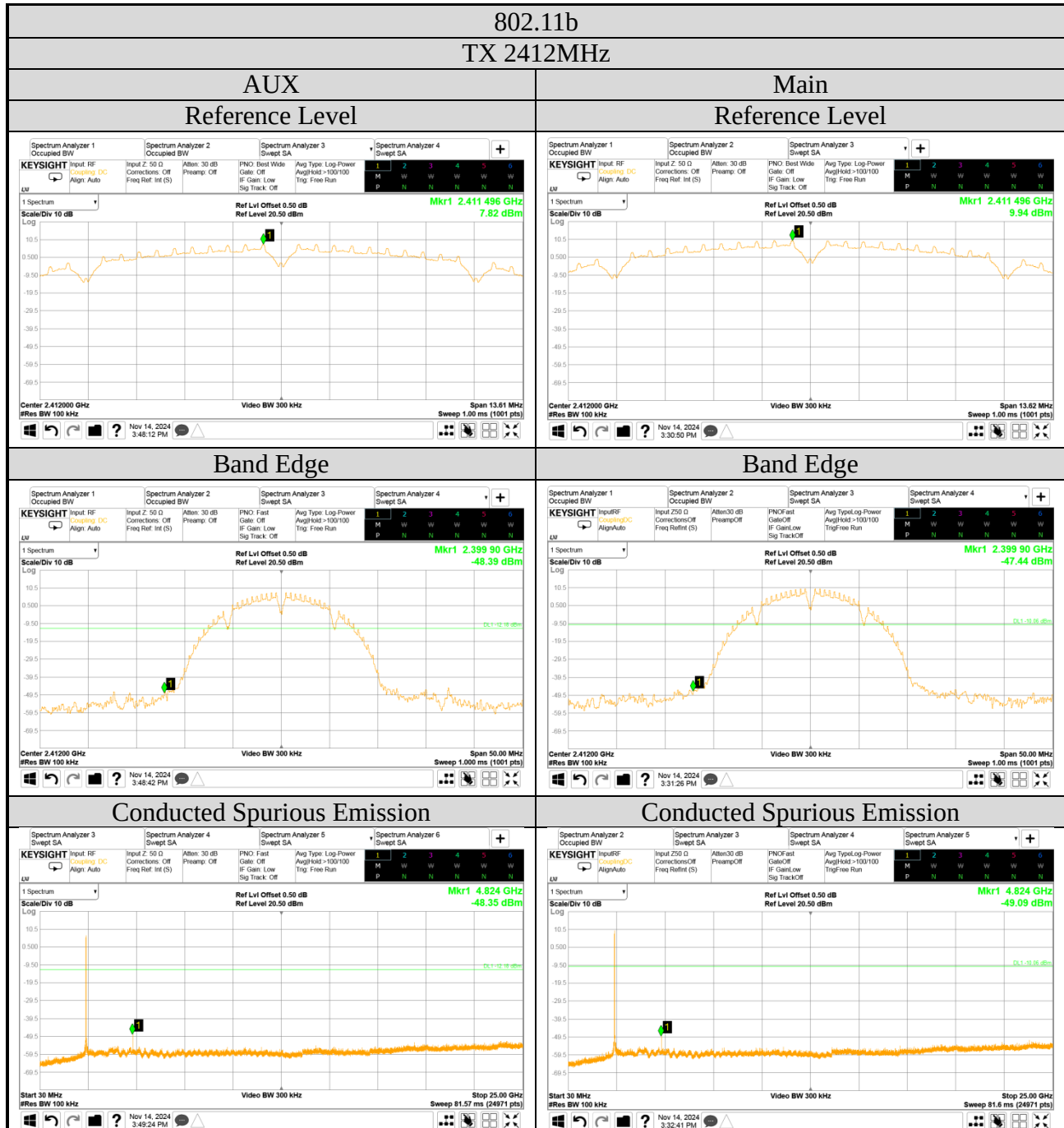
$$\text{Directional gain} = 10 \log[(10^{0.1/10} + 10^{1.4/10})/2] = 0.8\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

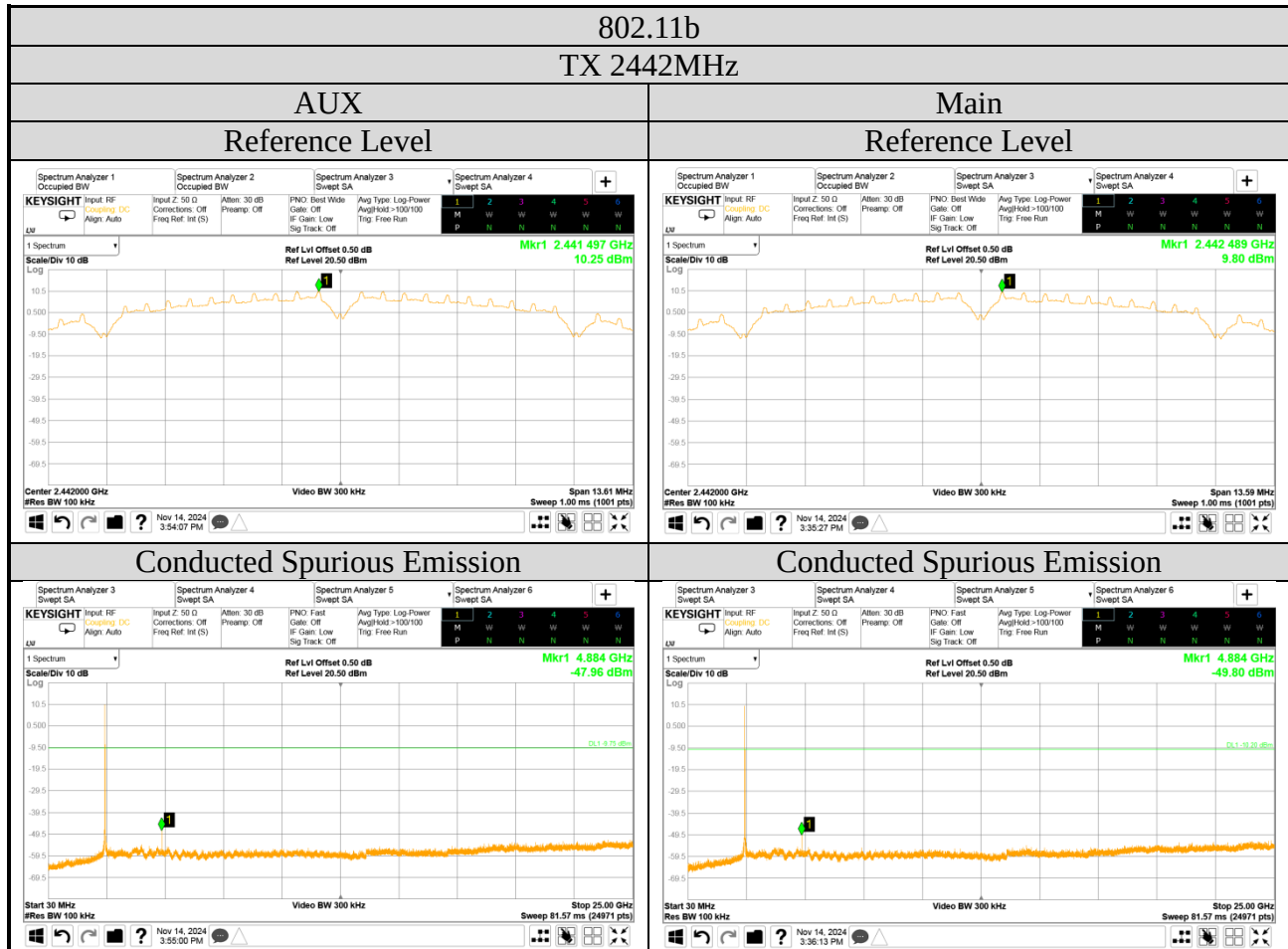
A.5 EMISSION LIMITATIONS

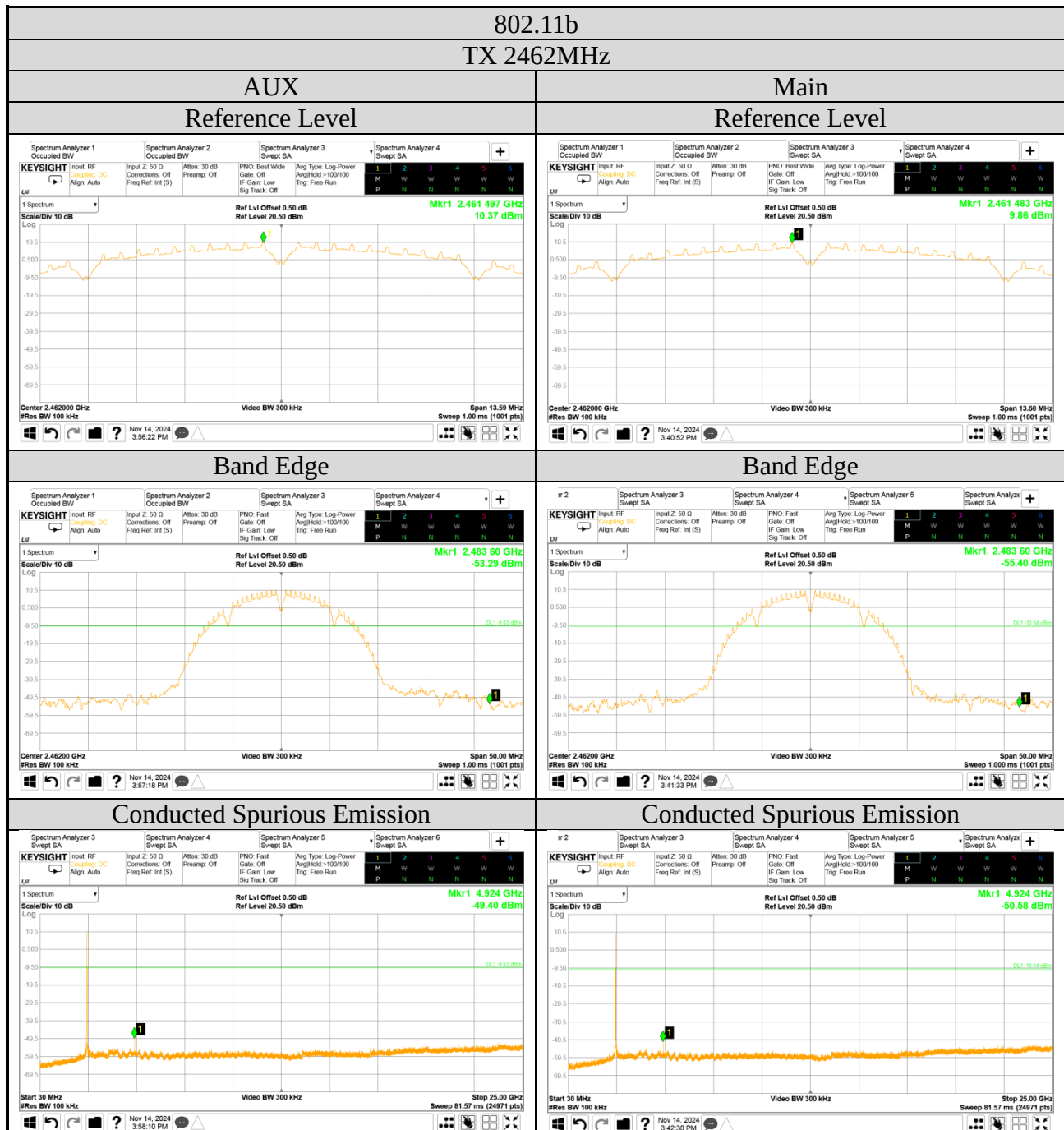
Test Date	2024/10/23 ~ 11/14	Temp./Hum.	24°C/55 ~ 57%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

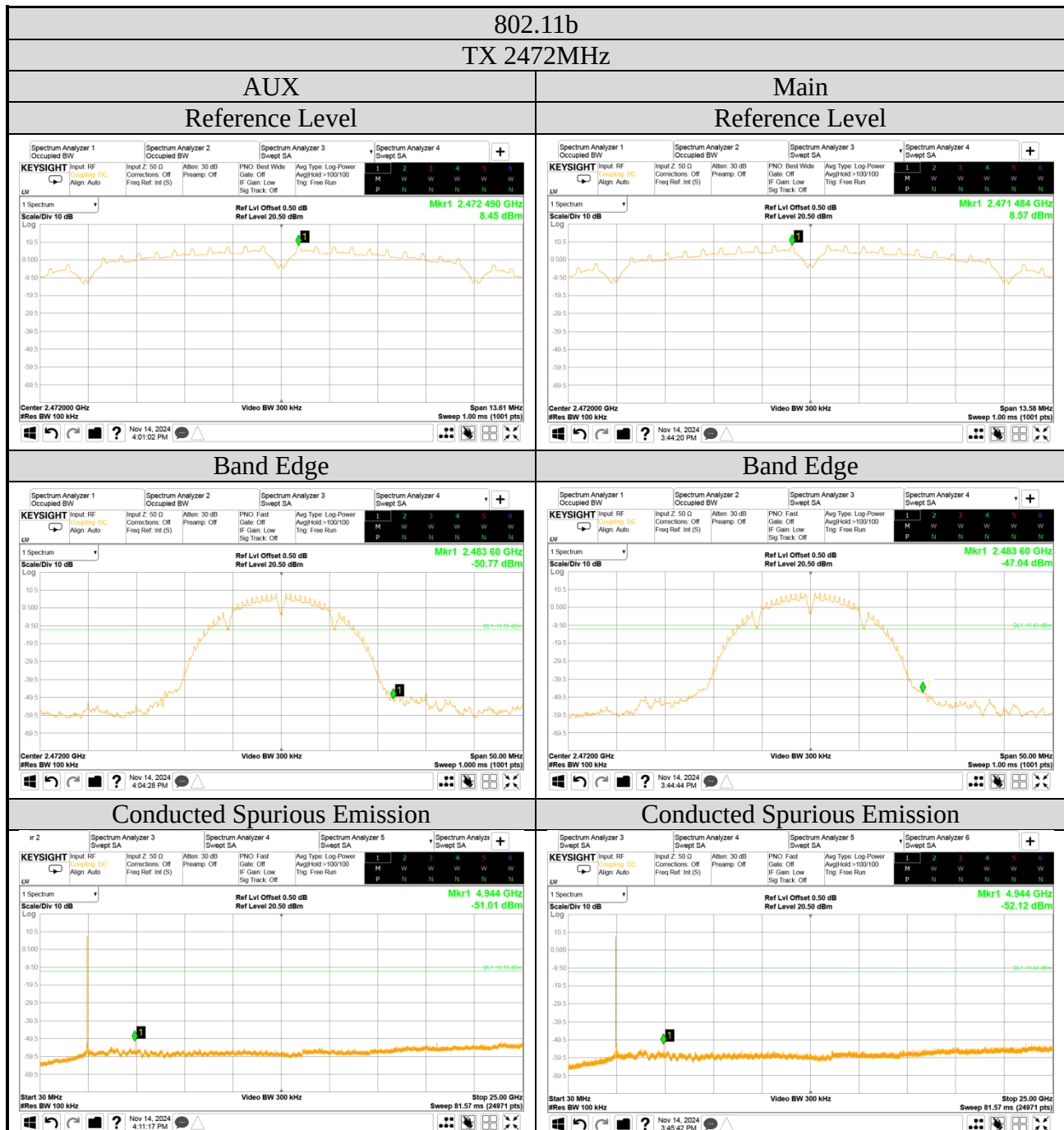


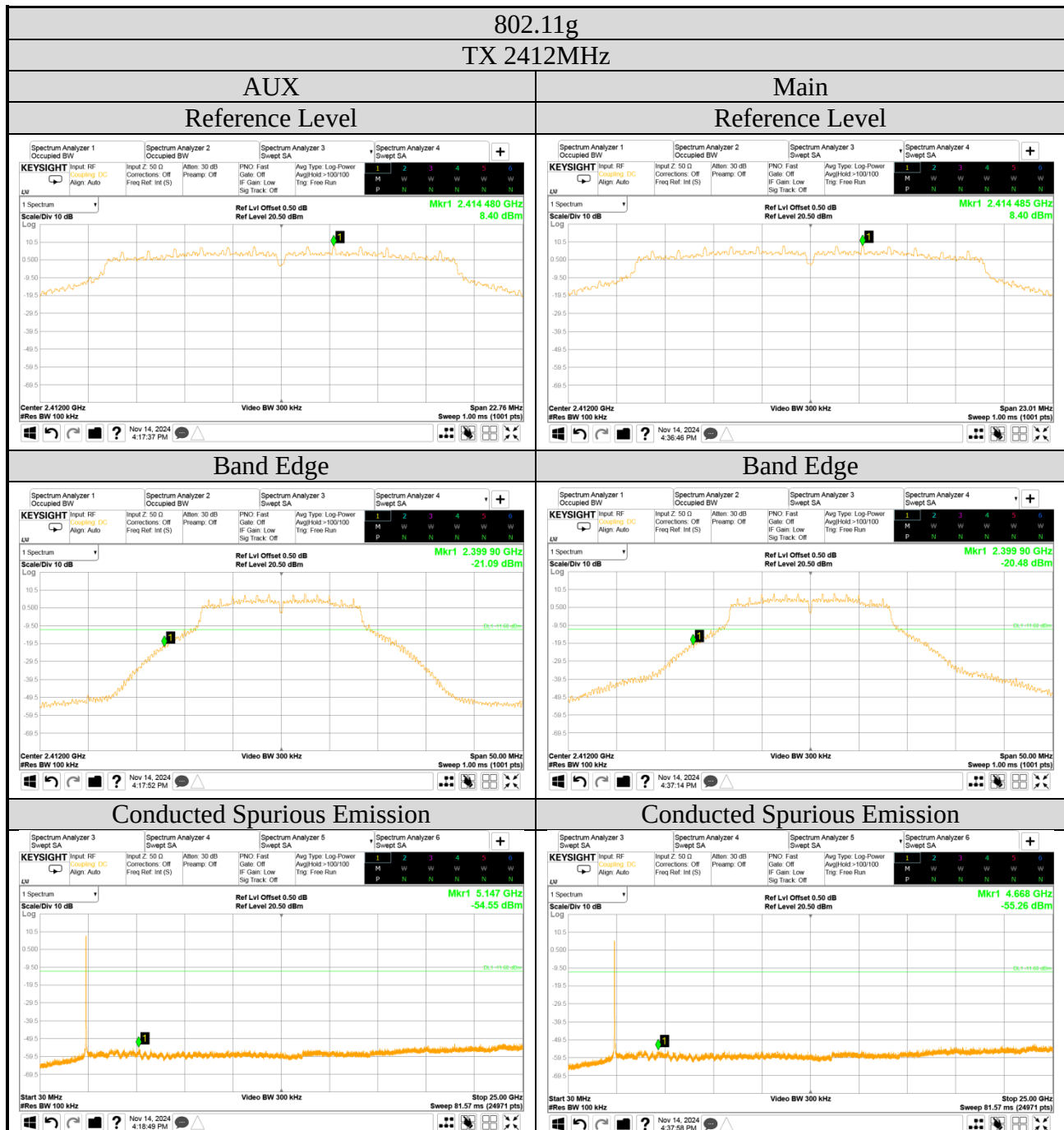
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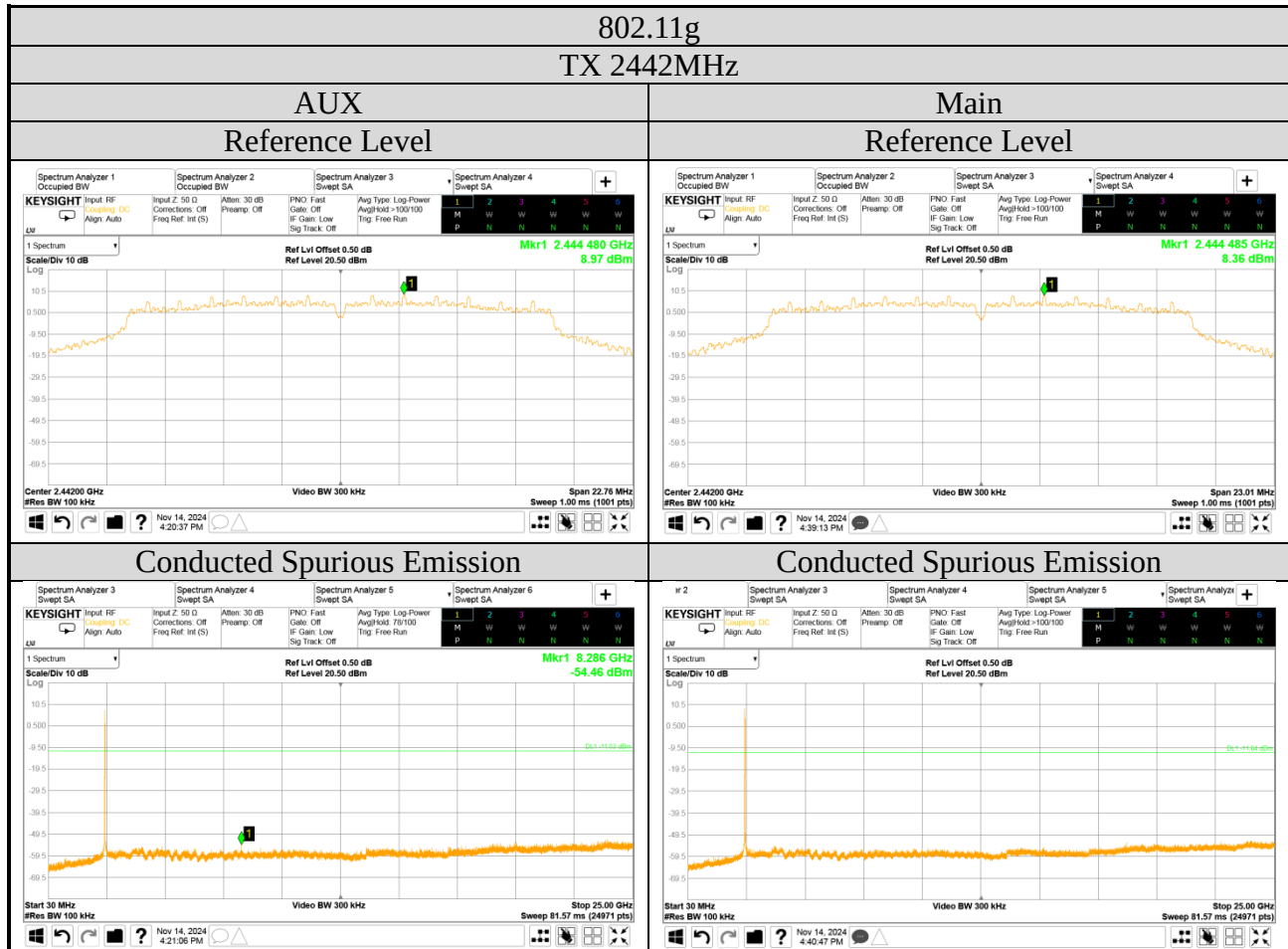


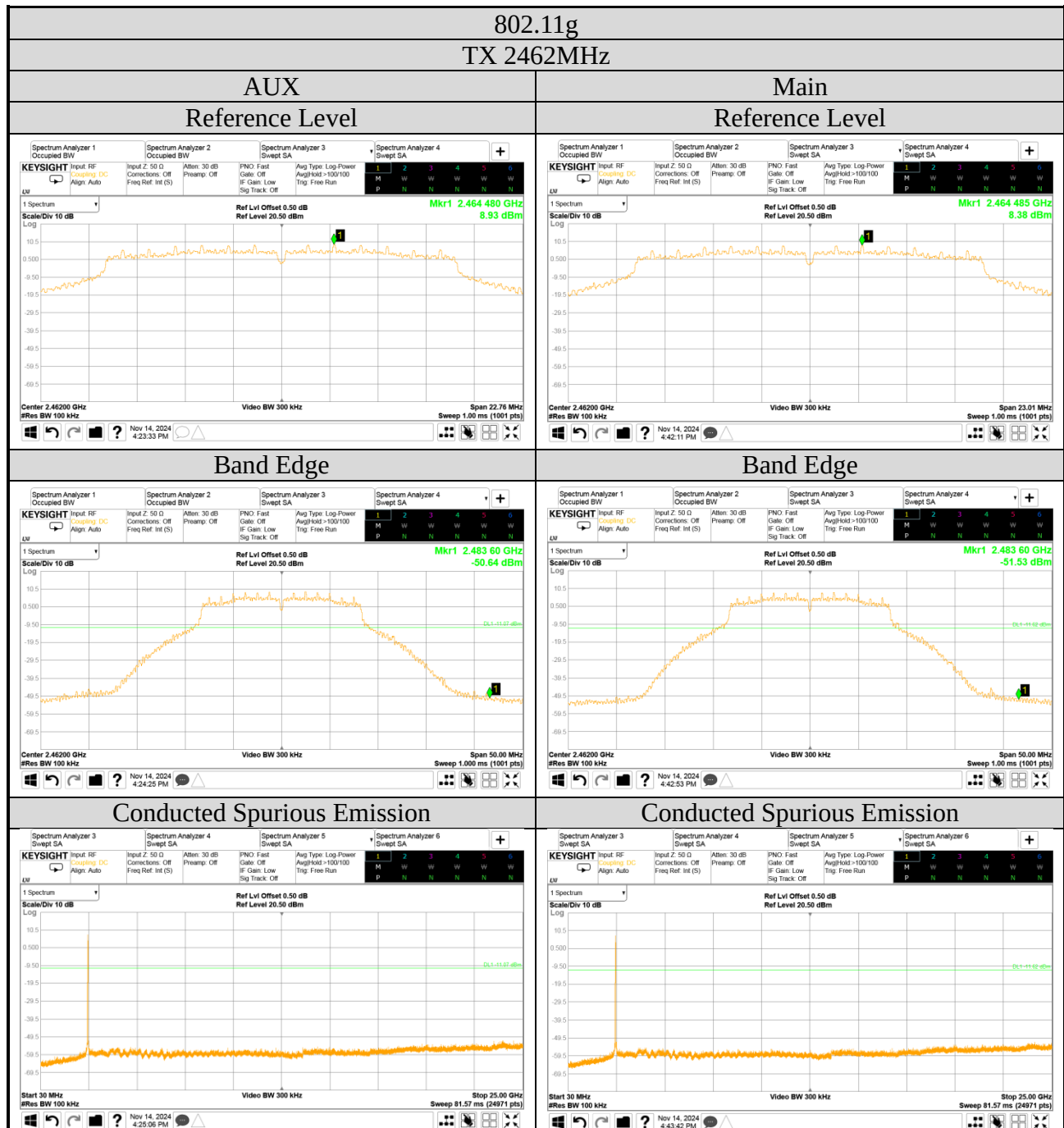


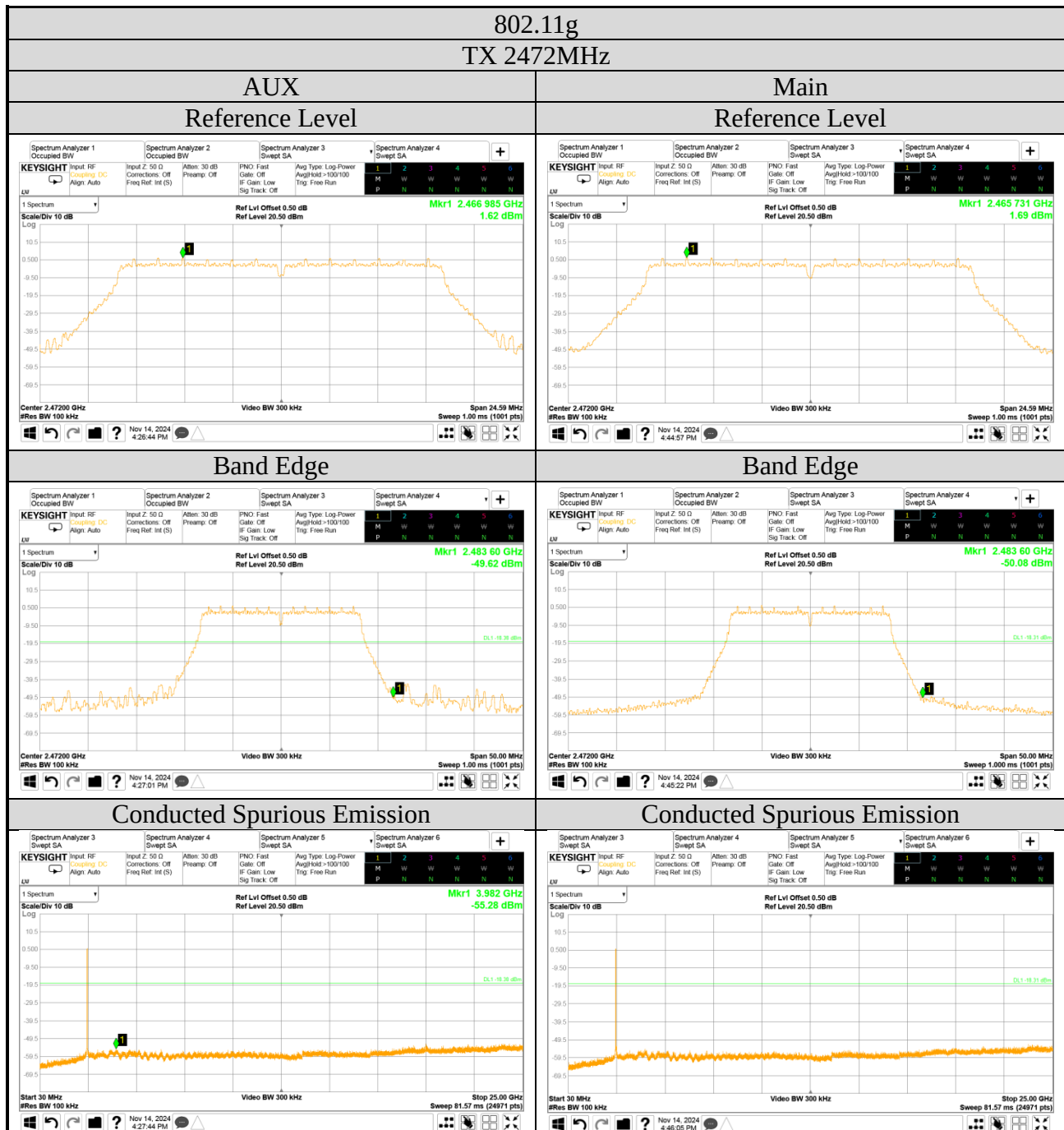


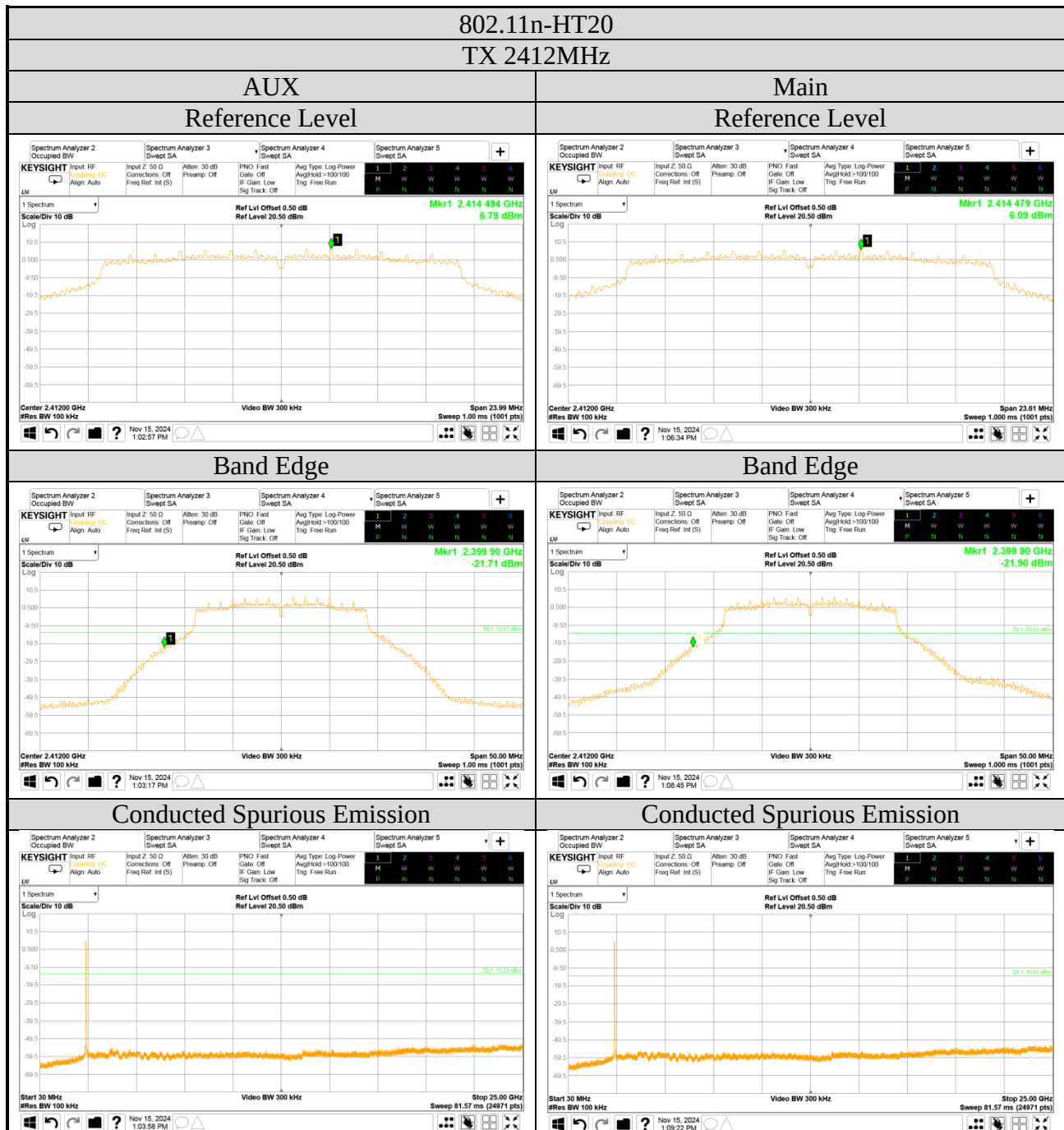
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