

Audix Technology Corp.
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New Taipei City244, Taiwan

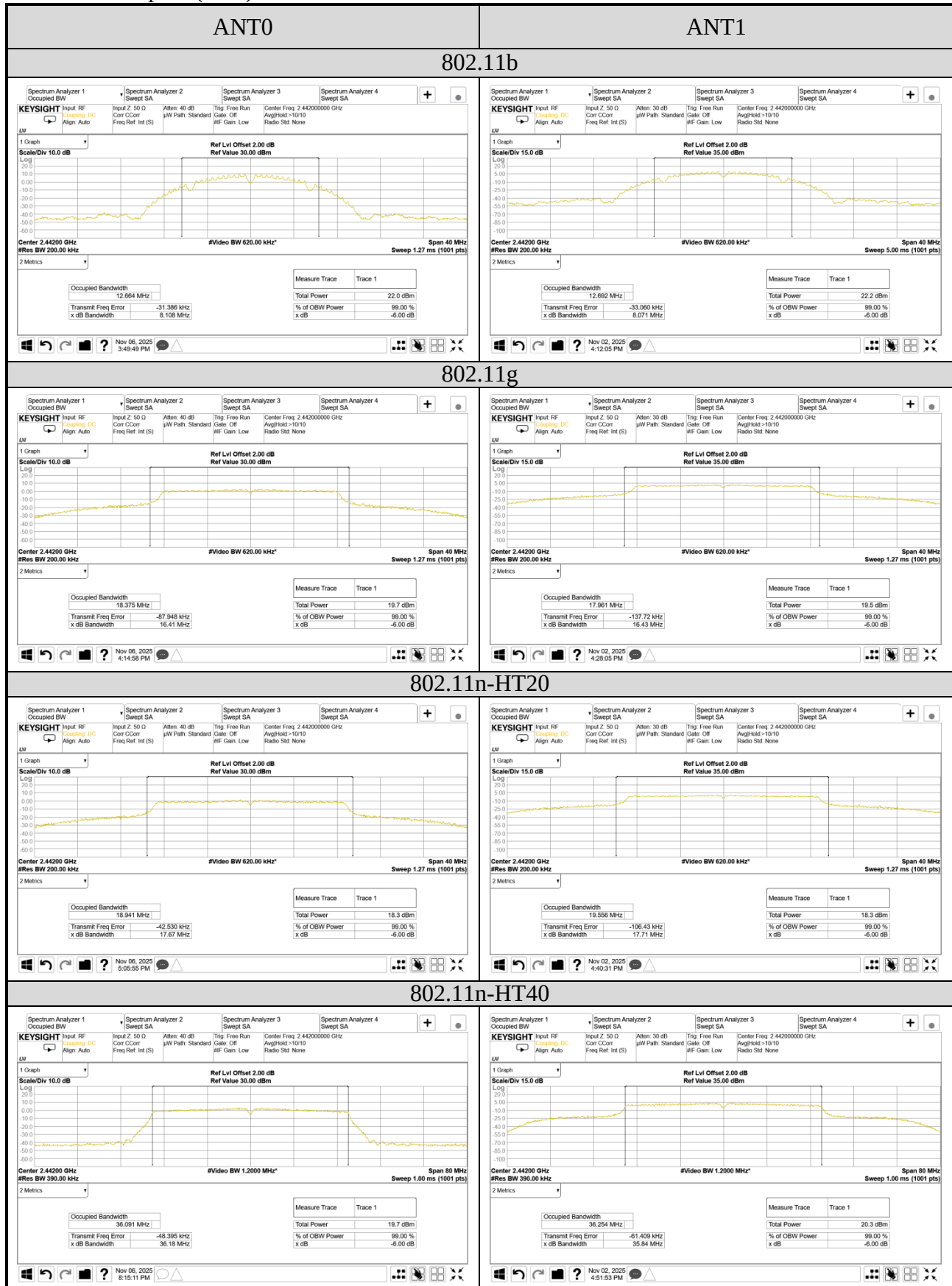
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● Occupied (99%) Bandwidth



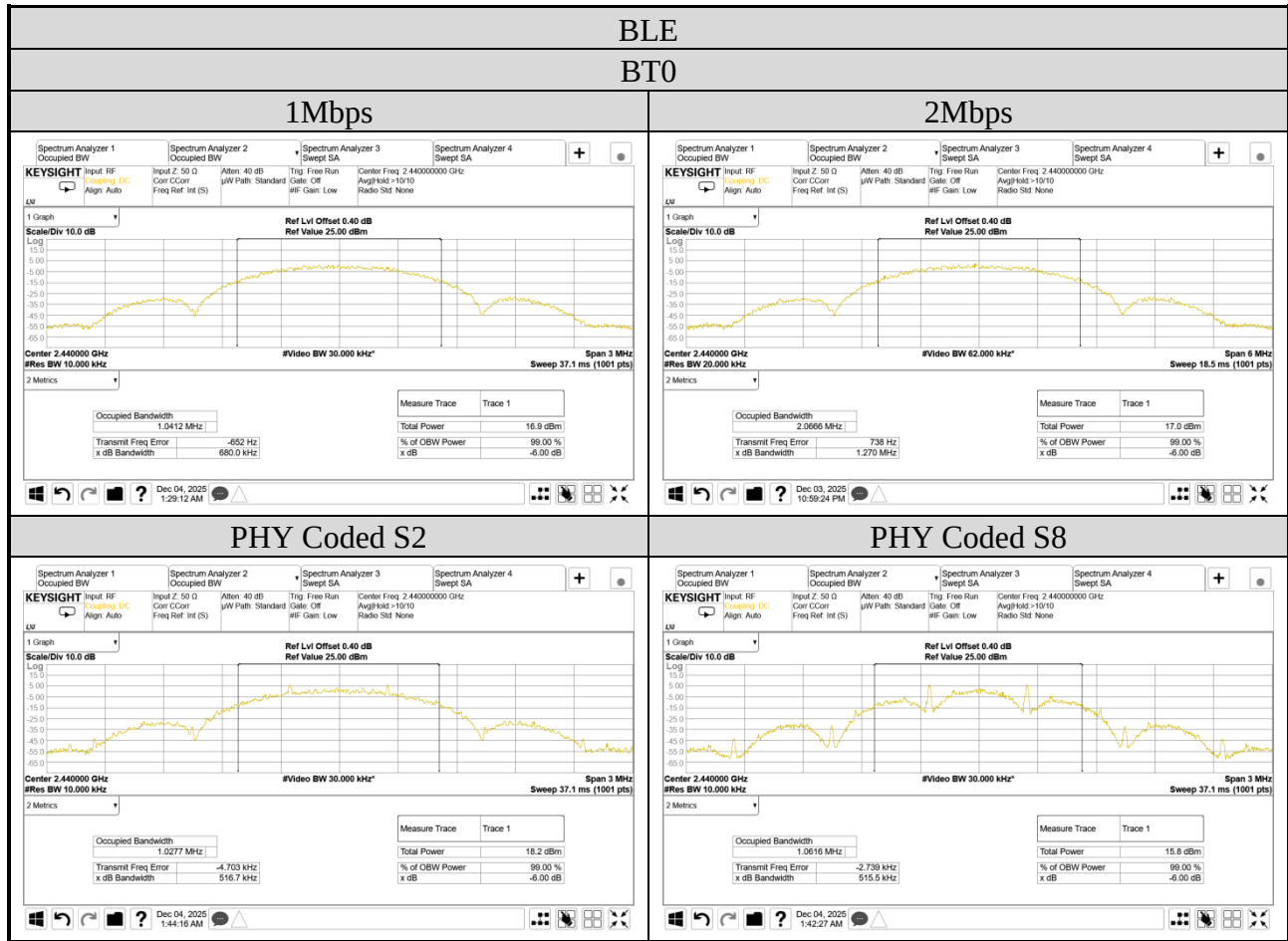
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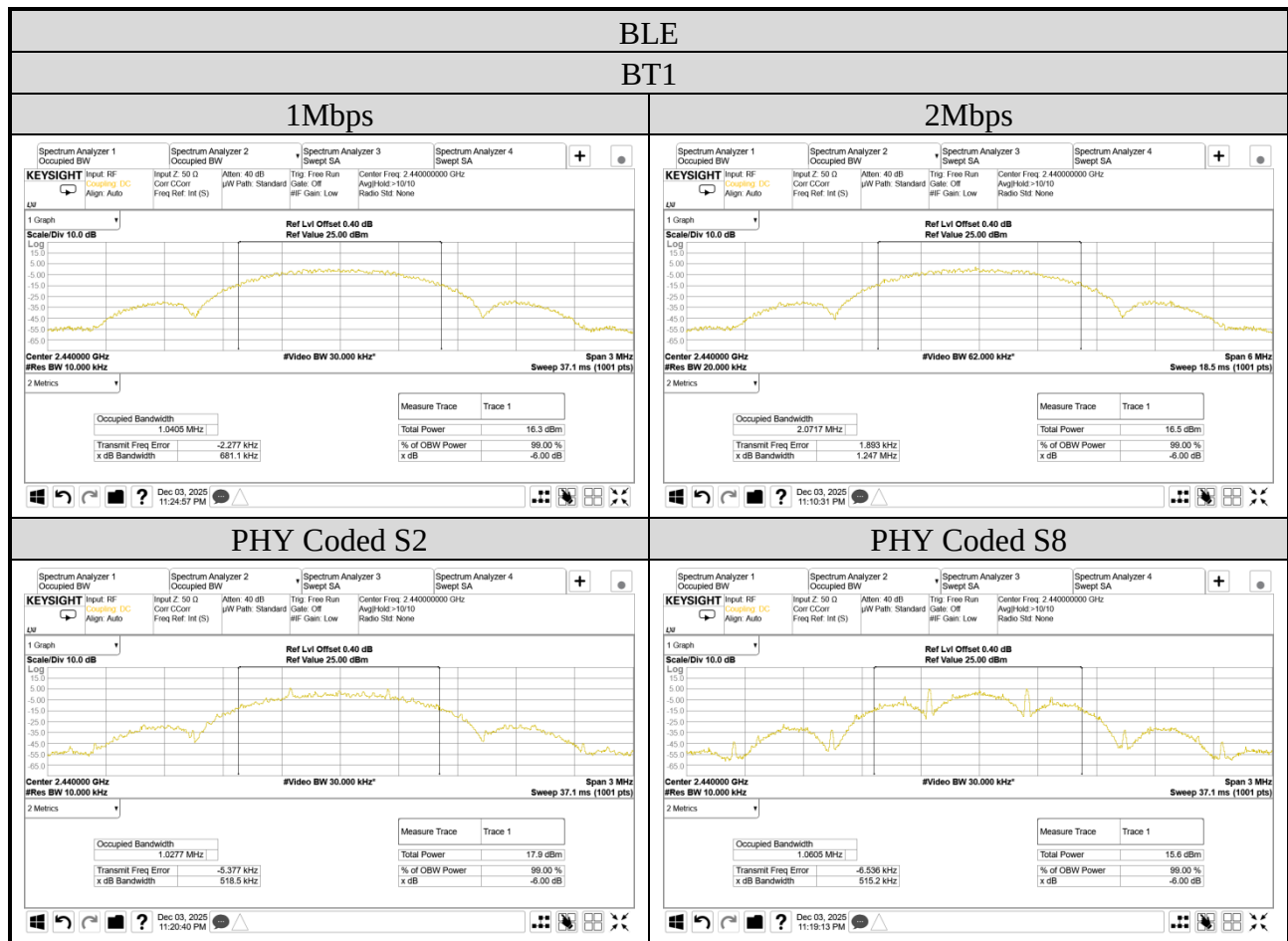
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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2025/10/28 ~ 12/02	Temp./Hum.	20~23°C /58~61%
Cable Loss	Wireless LAN: 2.20dB BLE: 0.4dB	Tested By	Sean Wang
Test Voltage	DC 5V (Through jig via Notebook PC)		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power		Antenna Gain (dBi)		E.I.R.P ^{Note 2}		Limit
		Ant0	Ant1	(dBm)	(W)	Ant0	Ant1	(dBm)	(W)	
802.11b	2412	20.63	21.61	21.61	0.145	-0.38	-1.88	20.25	0.106	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	21.23	20.72	21.23	0.133	-0.38	-1.88	20.85	0.122	
	2442	20.58	20.45	20.58	0.114	-0.38	-1.88	20.20	0.105	
	2462	20.06	20.13	20.13	0.103	-0.38	-1.88	19.68	0.093	
	2467	20.33	20.11	20.33	0.108	-0.38	-1.88	19.95	0.099	
	2472	19.45	19.10	19.45	0.088	-0.38	-1.88	19.07	0.081	
802.11g	2412	19.74	19.49	19.74	0.094	-0.38	-1.88	19.36	0.086	
	2442	18.77	18.7	18.77	0.075	-0.38	-1.88	18.39	0.069	
	2462	18.44	18.42	18.44	0.070	-0.38	-1.88	18.06	0.064	
	2467	18.45	18.27	18.45	0.070	-0.38	-1.88	18.07	0.064	
	2472	19.09	18.91	19.09	0.081	-0.38	-1.88	18.71	0.074	

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

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

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power ^{Note 2}		Directional Gain ^{Note 3} (dBi)	E.I.R.P ^{Note 4}		Limit
		Ant0	Ant1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	20.32	20.25	23.30	0.214	-1.23	22.07	0.161	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	18.88	18.71	21.81	0.152	-1.23	20.58	0.114	
	2462	17.54	17.85	20.71	0.118	-1.23	19.48	0.089	
	2467	17.26	17.44	20.36	0.109	-1.23	19.13	0.082	
	2472	18.12	18.45	21.30	0.135	-1.23	20.07	0.102	
802.11n-HT40	2422	19.76	19.83	22.81	0.191	-1.23	21.58	0.144	
	2442	19.40	19.48	22.45	0.176	-1.23	21.22	0.132	
	2452	18.94	19.01	21.99	0.158	-1.23	20.76	0.119	
	2457	17.24	17.53	20.40	0.110	-1.23	19.17	0.083	
	2462	18.05	18.14	21.11	0.129	-1.23	19.88	0.097	
802.11ax-HE20	2412	20.75	20.38	23.58	0.228	-1.23	22.35	0.172	
	2442	19.21	19.39	22.31	0.170	-1.23	21.08	0.128	
	2462	18.85	19.11	21.99	0.158	-1.23	20.76	0.119	
	2467	18.90	19.22	22.07	0.161	-1.23	20.84	0.121	
	2472	19.85	20.23	23.05	0.202	-1.23	21.82	0.152	
802.11ax-HE40	2422	18.07	18.17	21.13	0.130	-1.23	19.90	0.098	
	2442	17.60	17.64	20.63	0.116	-1.23	19.40	0.087	
	2452	17.31	17.44	20.39	0.109	-1.23	19.16	0.082	
	2457	17.41	17.82	20.63	0.116	-1.23	19.40	0.087	
	2462	17.82	18.11	20.98	0.125	-1.23	19.75	0.094	

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

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

$$\text{Directional gain} = 10 \log[(10^{-2.88/10} + 10^{-1.23/10})/2] = -1.23 \text{ dBi}$$

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).

Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power ^{Note 2}		Directional Gain ^{Note 3} (dBi)	E.I.R.P ^{Note 4}		Limit
			Ant0	Ant1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	26/0	21.52	21.86	24.70	0.295	-1.23	23.47	0.223	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	23.79	24.05	26.93	0.493	-1.23	25.70	0.372	
		106/53	22.84	23.29	26.08	0.406	-1.23	24.85	0.306	
	2472	26/8	14.46	14.66	17.57	0.057	-1.23	16.34	0.043	
		52/40	16.53	16.82	19.69	0.093	-1.23	18.46	0.070	
		106/54	16.04	16.15	19.11	0.081	-1.23	17.88	0.061	
802.11ax-HE40	2422	242/61	20.77	20.94	23.87	0.244	-1.23	22.64	0.183	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2462	242/62	19.47	19.86	22.68	0.185	-1.23	21.45	0.140	

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

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

$$\text{Directional gain} = 10 \log[(10^{-2.88/10} + 10^{-1.23/10})/2] = -1.23 \text{ dBi}$$

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. ^{Note 2}		Limit
		BT0	BT1	BT0	BT1	BT0	BT1	
BLE (1Mbps)	2402	11.78	12.26	-1.19	0.51	10.59	12.77	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	12.25	12.62	-1.19	0.51	11.06	13.13	
	2480	12.59	12.98	-1.19	0.51	11.40	13.49	
BLE (2Mbps)	2402	11.83	12.32	-1.19	0.51	10.64	12.83	
	2440	12.07	12.50	-1.19	0.51	10.88	13.01	
	2480	12.61	13.08	-1.19	0.51	11.42	13.59	
BLE (PHY Coded S2)	2402	11.75	12.18	-1.19	0.51	10.56	12.69	
	2440	12.24	12.56	-1.19	0.51	11.05	13.07	
	2480	12.73	13.05	-1.19	0.51	11.54	13.56	
BLE (PHY Coded S8)	2402	11.74	12.19	-1.19	0.51	10.55	12.70	
	2440	12.22	12.53	-1.19	0.51	11.03	13.04	
	2480	12.71	12.99	-1.19	0.51	11.52	13.50	

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

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

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A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power		Antenna Gain (dBi)		E.I.R.P. ^{Note 2}		Limit
		Ant0	Ant1		(dBm)	(W)	Ant0	Ant1	(dBm)	(W)	
802.11b	2412	18.11	18.89	0.155	19.05	0.080	-0.38	-1.88	17.73	0.059	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	18.49	18.12	0.155	18.65	0.073	-0.38	-1.88	18.11	0.065	
	2442	17.82	17.65	0.155	17.98	0.063	-0.38	-1.88	17.44	0.055	
	2462	17.37	17.25	0.155	17.53	0.057	-0.38	-1.88	16.99	0.050	
	2467	17.58	17.49	0.155	17.74	0.059	-0.38	-1.88	17.20	0.052	
	2472	16.88	16.53	0.155	17.04	0.051	-0.38	-1.88	16.50	0.045	
802.11g	2412	12.47	12.65	0.851	13.50	0.022	-0.38	-1.88	12.09	0.016	
	2442	12.60	12.75	0.851	13.60	0.023	-0.38	-1.88	12.22	0.017	
	2462	12.09	12.43	0.851	13.28	0.021	-0.38	-1.88	11.71	0.015	
	2467	11.98	12.17	0.851	13.02	0.020	-0.38	-1.88	11.60	0.014	
	2472	12.07	12.29	0.851	13.14	0.021	-0.38	-1.88	11.69	0.015	

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

2. E.I.R.P.= The Max. of Peak Output Power (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%.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power ^{Note 2}		Directional Gain ^{Note 3} (dBi)	E.I.R.P. ^{Note 4}		Limit
		Ant0	Ant1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	12.42	12.50	0.899	16.37	0.043	-1.23	15.14	0.033	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	12.34	12.41	0.899	16.28	0.043	-1.23	15.05	0.032	
	2462	10.85	11.02	0.899	14.85	0.031	-1.23	13.62	0.023	
	2467	10.75	10.89	0.899	14.73	0.030	-1.23	13.50	0.022	
	2472	10.78	11.13	0.899	14.87	0.031	-1.23	13.64	0.023	
802.11n-HT40	2422	12.23	12.46	1.707	17.06	0.051	-1.23	15.83	0.038	
	2442	12.20	12.36	1.707	17.00	0.050	-1.23	15.77	0.038	
	2452	11.76	11.82	1.707	16.51	0.045	-1.23	15.28	0.034	
	2457	9.84	10.06	1.707	14.67	0.029	-1.23	13.44	0.022	
	2462	9.76	9.98	1.707	14.59	0.029	-1.23	13.36	0.022	
802.11ax-HE20	2412	11.65	11.80	1.925	16.66	0.046	-1.23	15.43	0.035	
	2442	11.70	11.97	1.925	16.77	0.048	-1.23	15.54	0.036	
	2462	11.13	11.26	1.925	16.13	0.041	-1.23	14.90	0.031	
	2467	11.29	11.44	1.925	16.30	0.043	-1.23	15.07	0.032	
	2472	11.40	11.66	1.925	16.47	0.044	-1.23	15.24	0.033	
802.11ax-HE40	2422	9.08	9.23	3.01	15.18	0.033	-1.23	13.95	0.025	
	2442	9.16	9.30	3.01	15.25	0.034	-1.23	14.02	0.025	
	2452	8.64	8.92	3.01	14.80	0.030	-1.23	13.57	0.023	
	2457	8.62	8.89	3.01	14.78	0.030	-1.23	13.55	0.023	
	2462	8.64	8.78	3.01	14.73	0.030	-1.23	13.50	0.022	

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

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

Directional gain = $10 \log[(10^{-2.88/10} + 10^{-1.23/10})/2] = -1.23$ 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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			Ant0	Ant1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	26/0	11.52	11.70	2.840	17.46	0.056	-1.23	16.23	0.042	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	11.65	11.71	2.757	17.45	0.056	-1.23	16.22	0.042	
		106/53	11.39	11.45	3.054	17.48	0.056	-1.23	16.25	0.042	
	2472	26/8	2.52	2.74	2.840	8.48	0.007	-1.23	7.25	0.005	
		52/40	4.83	5.02	2.757	10.69	0.012	-1.23	9.46	0.009	
		106/54	4.37	4.69	3.054	10.60	0.011	-1.23	9.37	0.009	
802.11ax-HE40	2422	242/61	10.03	10.10	3.401	16.48	0.044	-1.23	15.25	0.033	
	2462	242/62	8.37	8.72	3.401	14.96	0.031	-1.23	13.73	0.024	

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

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

Directional gain = $10 \log[(10^{-2.88/10} + 10^{-1.23/10})/2] = -1.23$ dBi

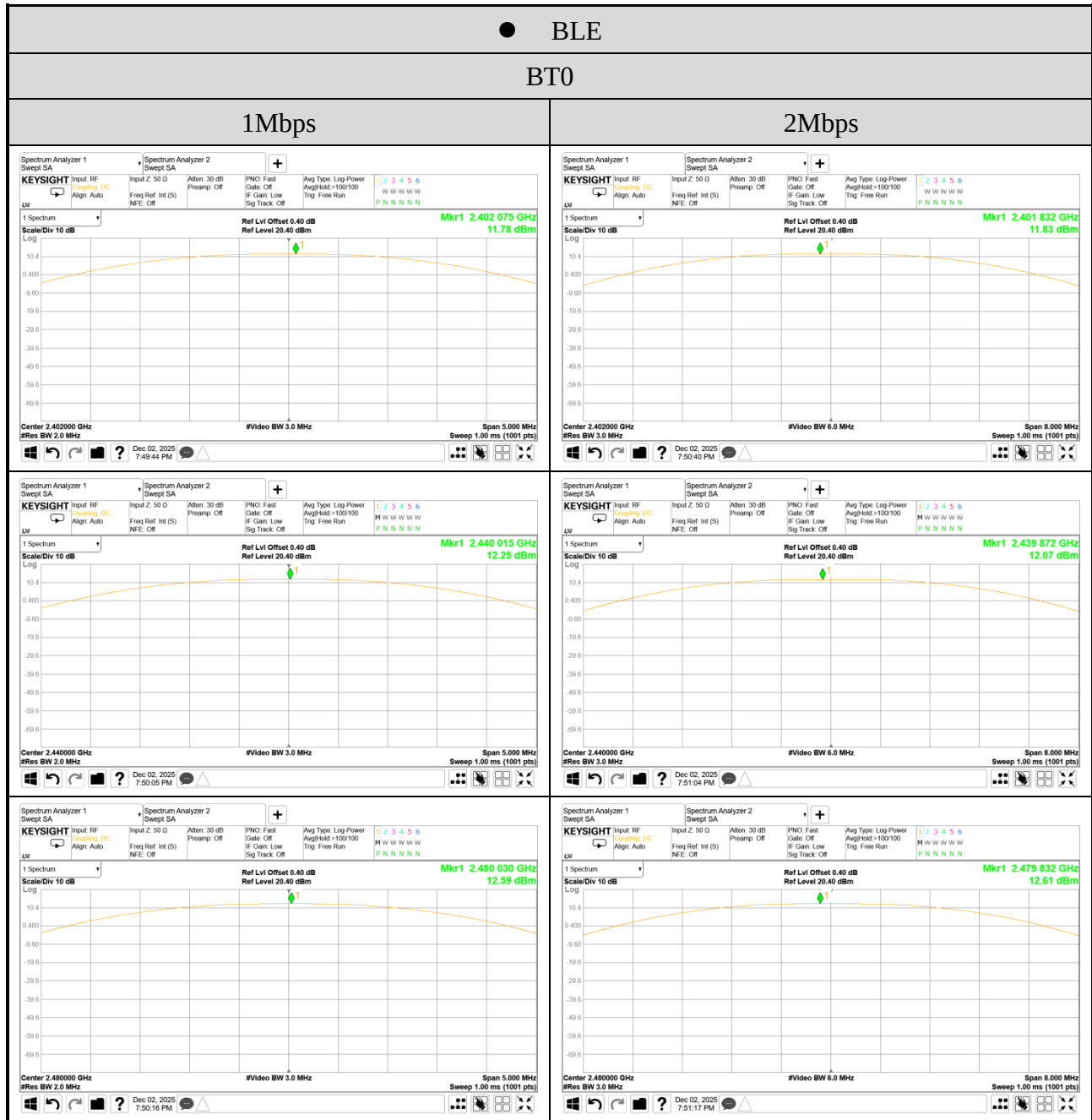
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4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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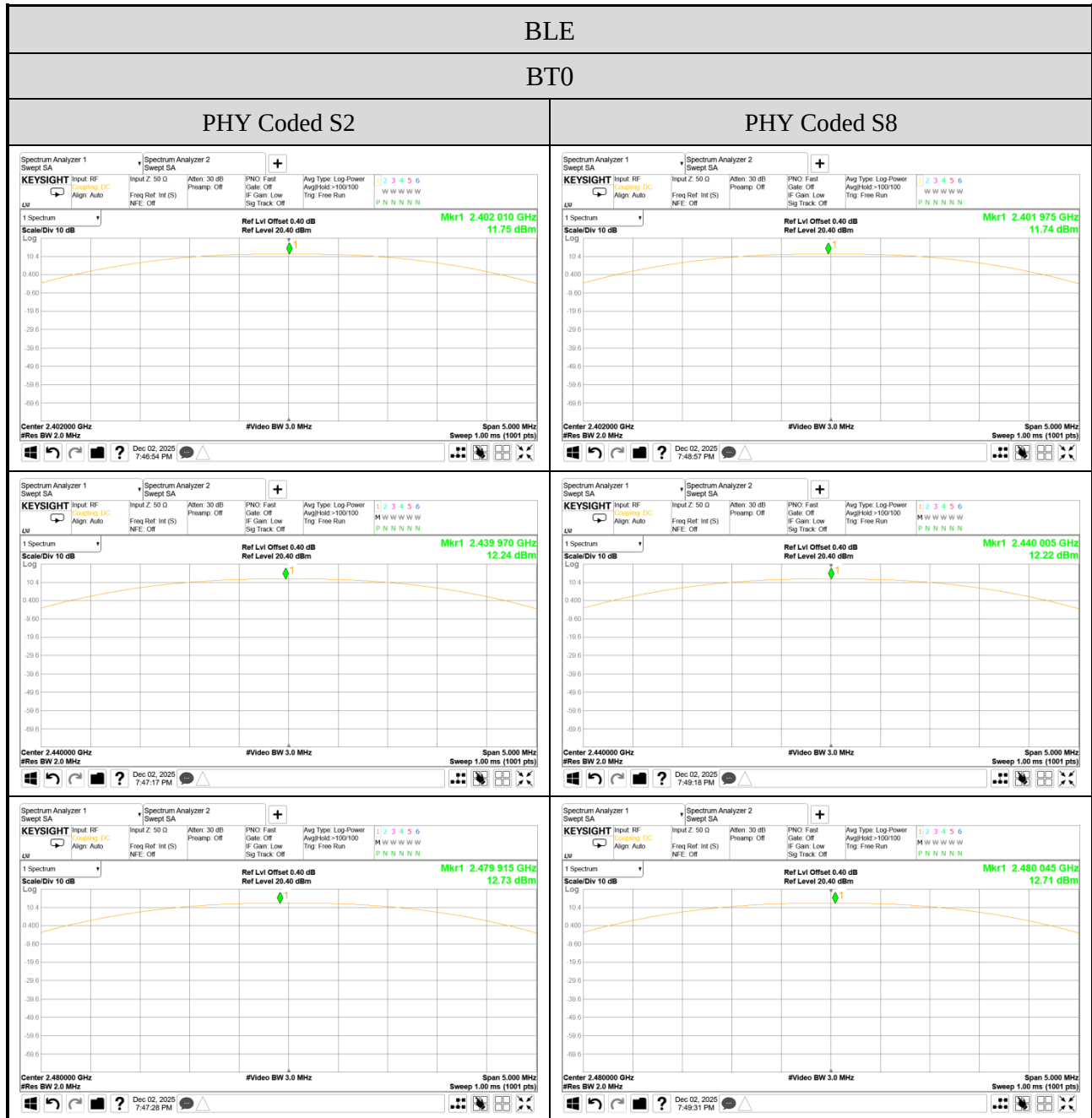
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● Measurement Plots (Peak Output Power of BLE Mode)



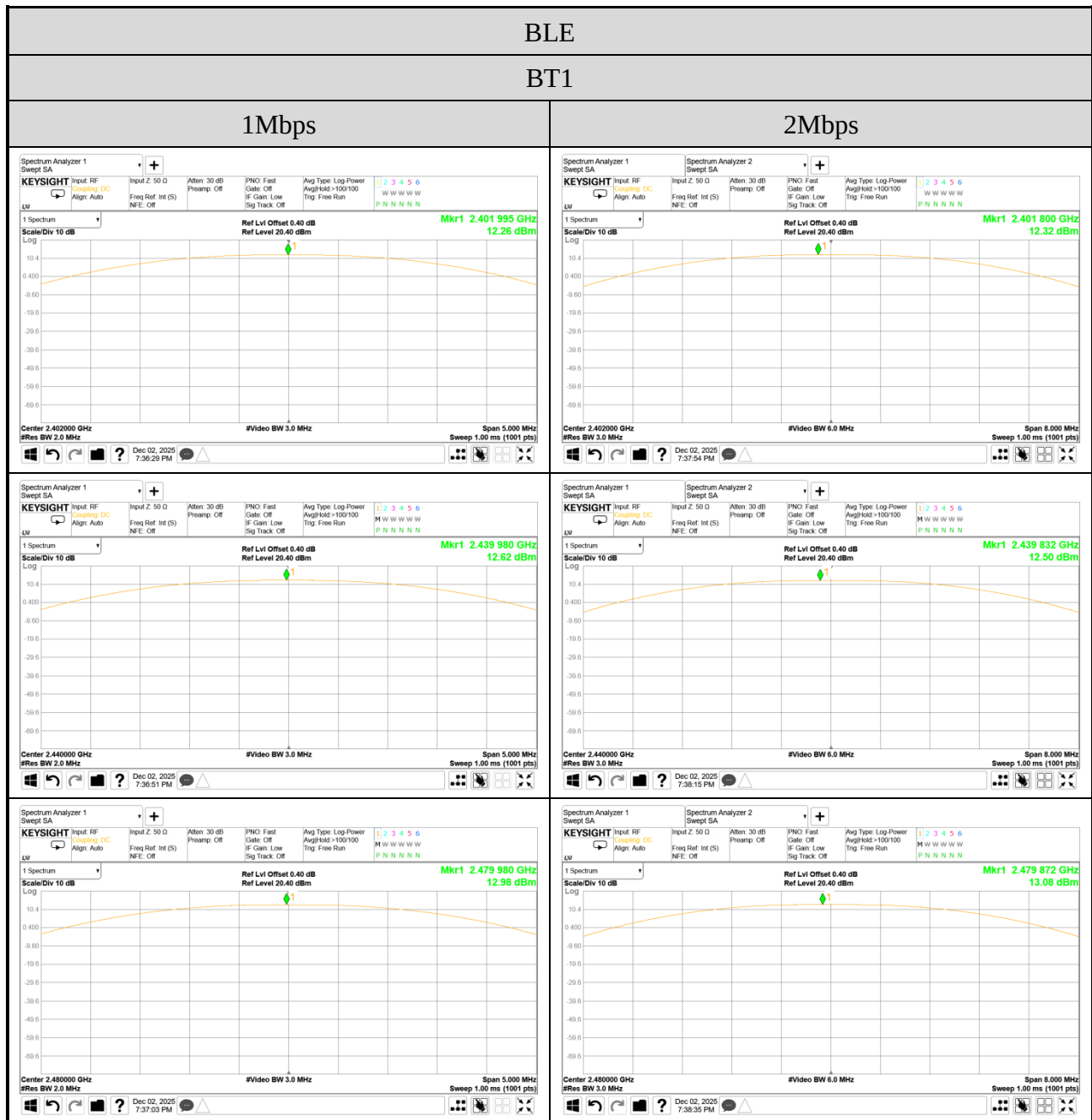
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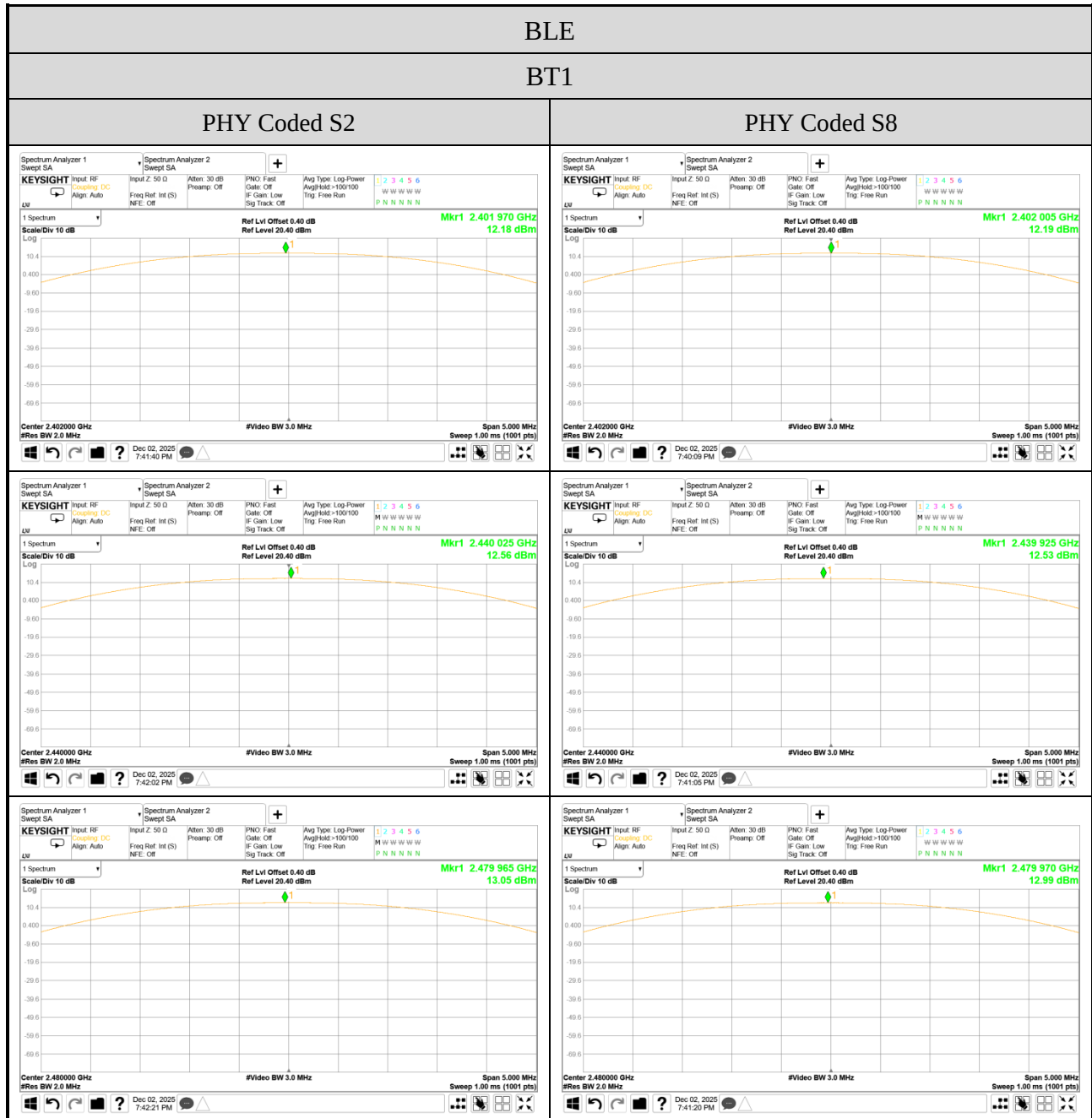
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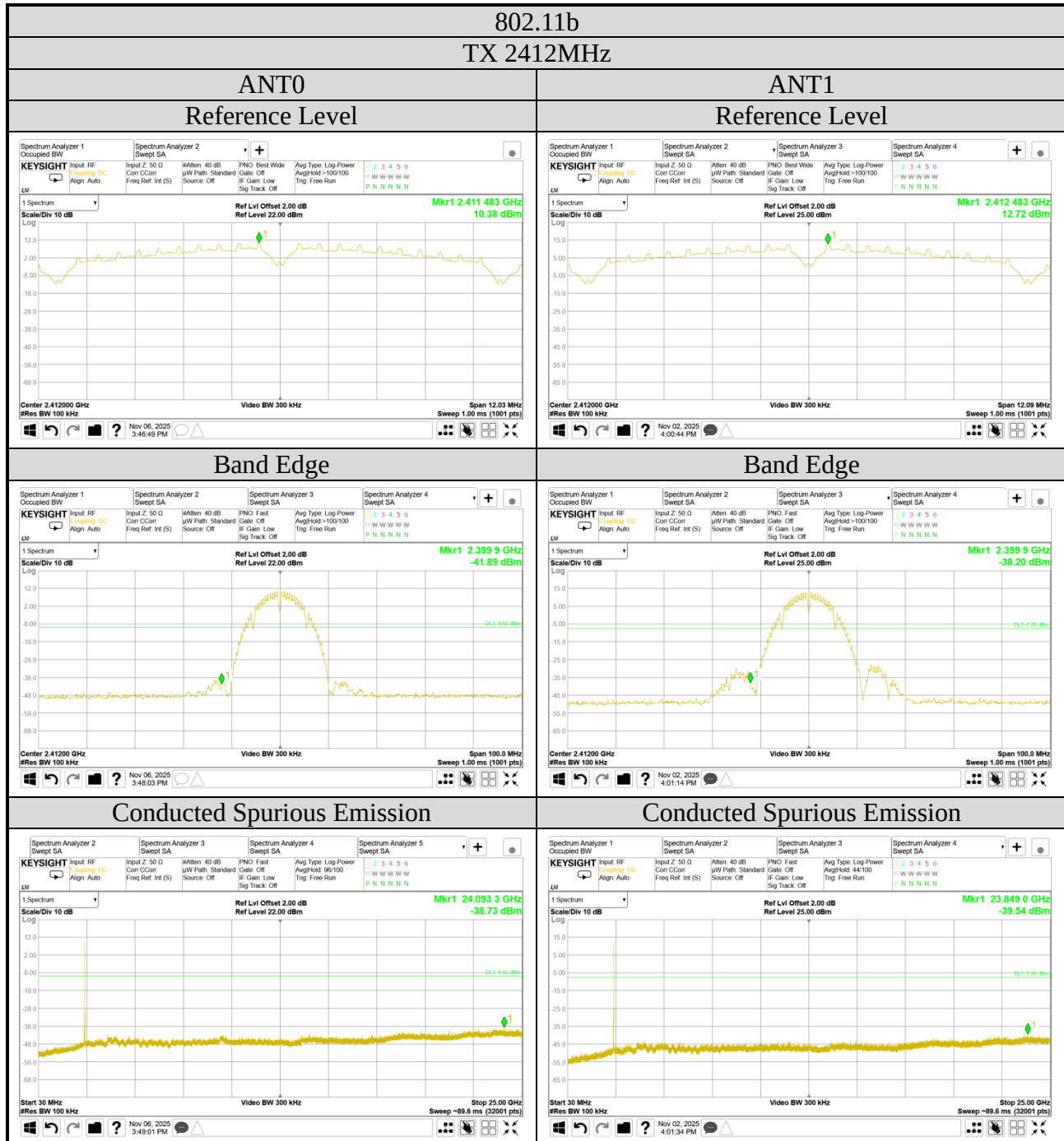


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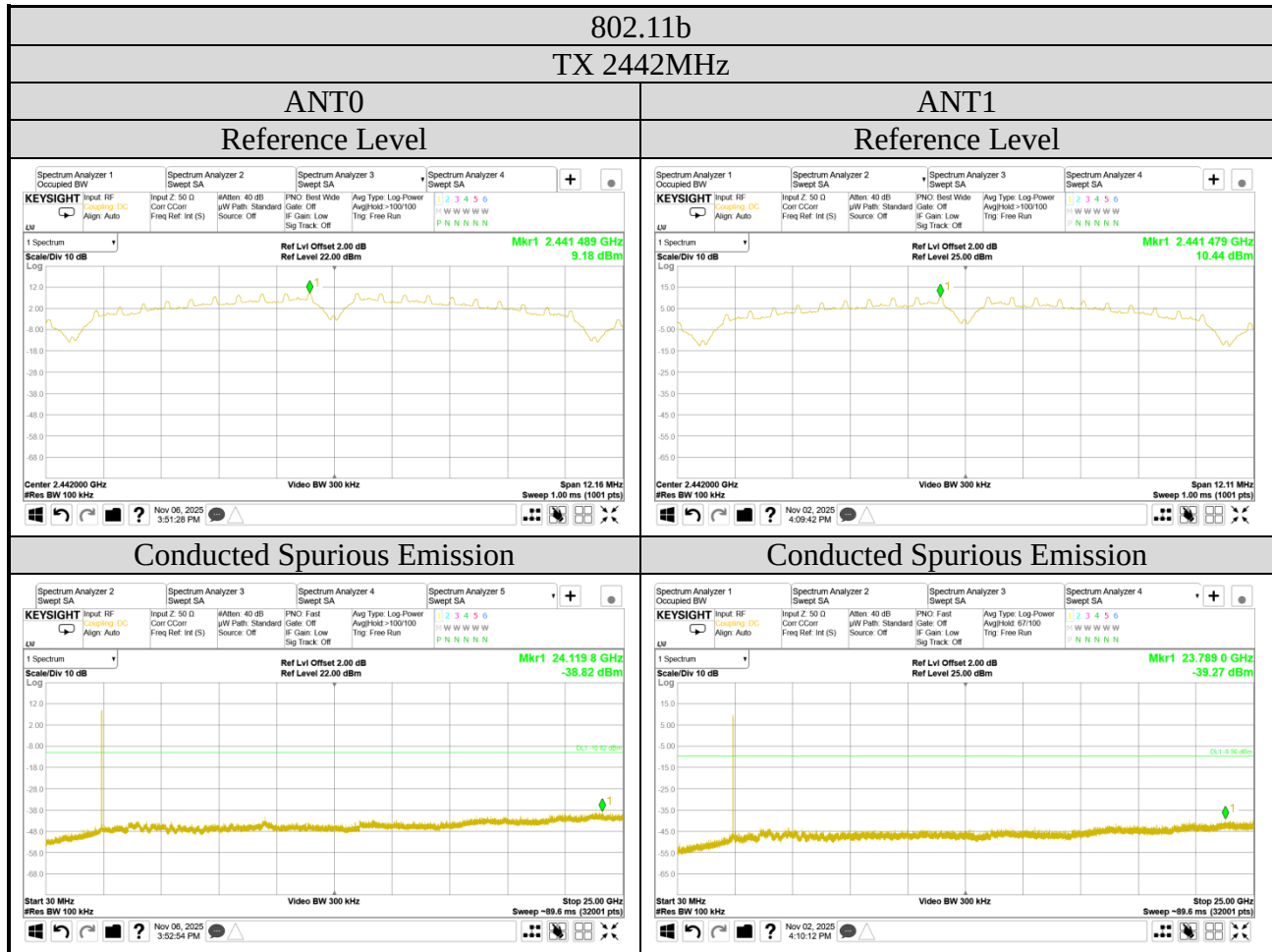
A.5 EMISSION LIMITATIONS

Test Date	2025/11/02 ~ 12/03	Temp./Hum.	20~23°C /61~65%
Cable Loss	Wireless LAN: 2.20dB BLE: 0.4dB	Tested By	Sean Wang
Test Voltage	DC 5V (Through jig via Notebook PC)		



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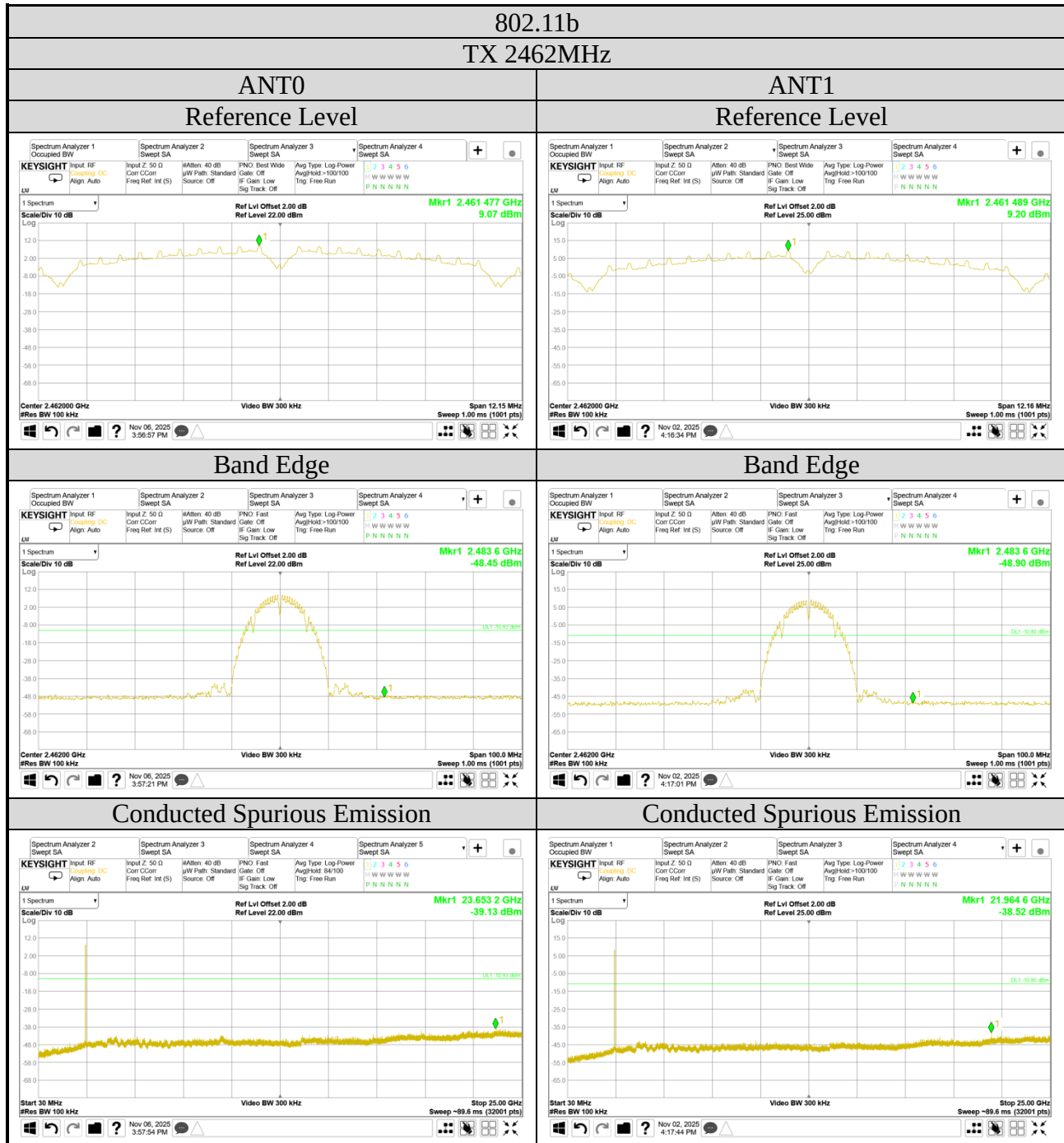
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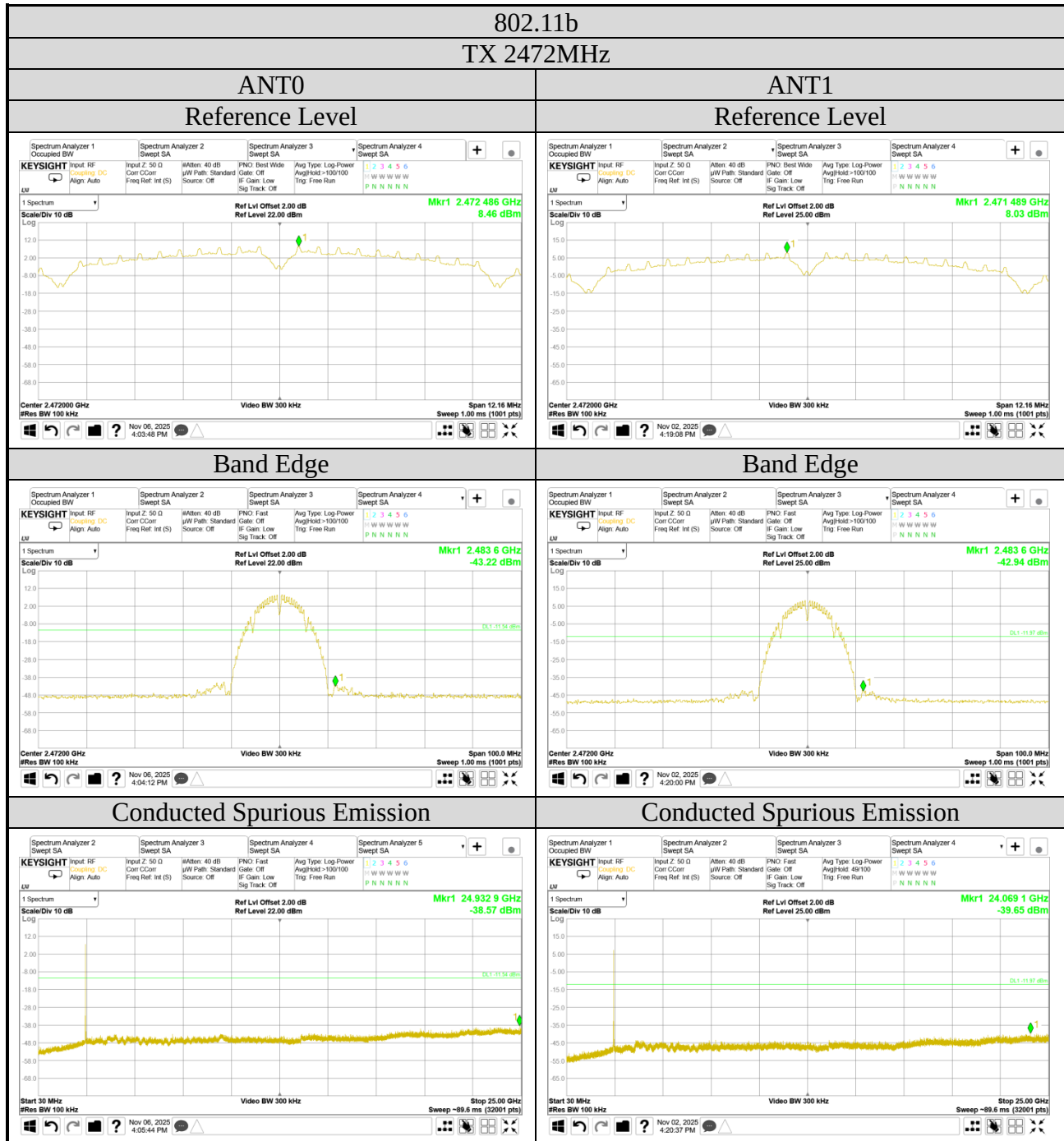
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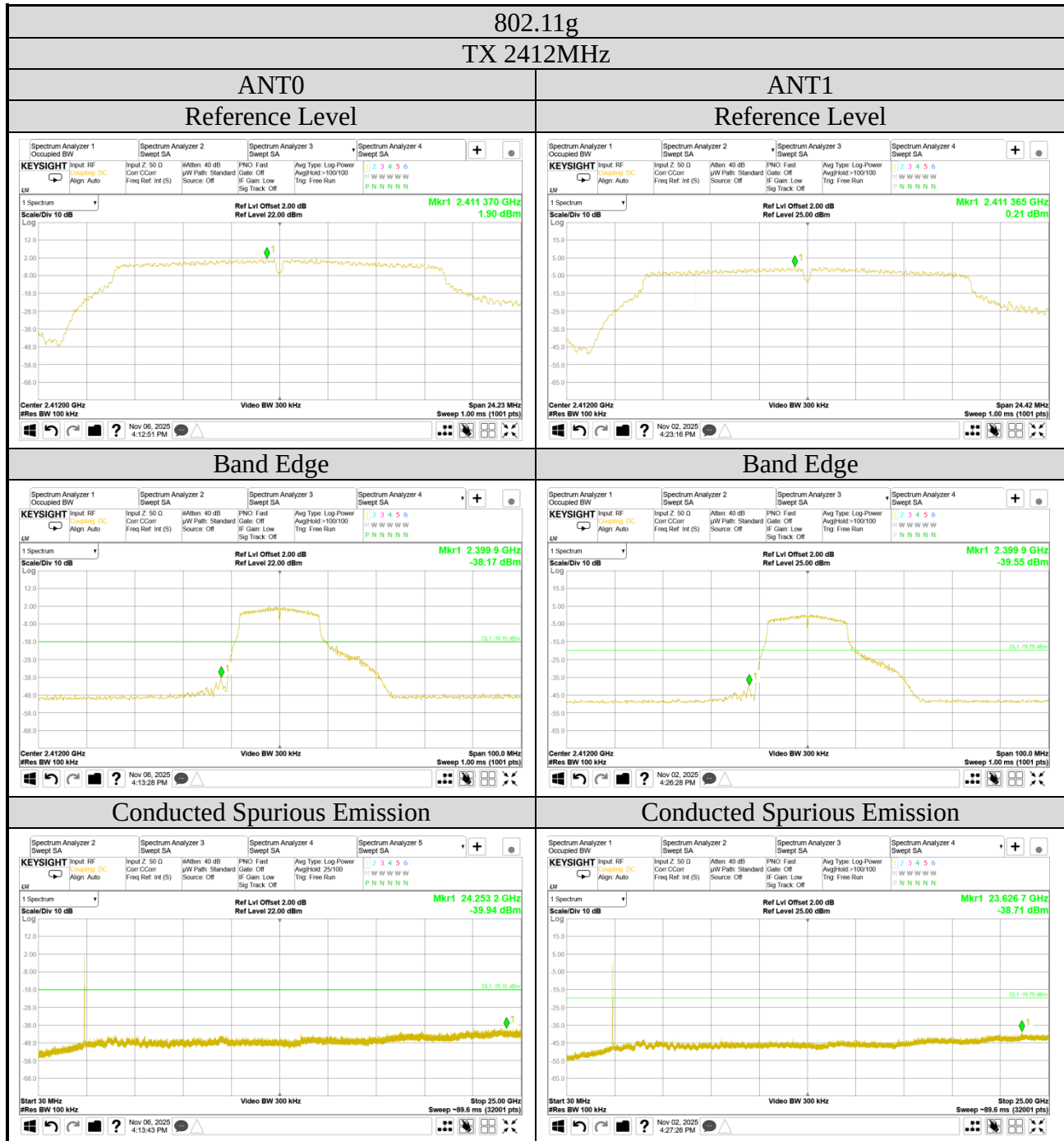
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