

A.4 POWER SPECTRAL DENSITY

Test Date	2025/02/19~ 21	Temp./Hum.	19 ~ 20°C/54 ~ 65%
Cable Loss	3.89dB	Tested By	Sean Wang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11a	1	5180	2.685	0.083	N/A	2.685	11 dBm/MHz
		5200	2.329	0.138		2.329	
		5240	2.132	0.249		2.132	
	2A	5260	3.318	0.671		3.318	
		5300	2.957	0.506		2.957	
		5320	2.684	0.329		2.684	
	2C	5500	3.569	0.192		3.569	
		5580	3.437	0.312		3.437	
		5700	2.911	1.129		2.911	
		5720	2.953	0.985		2.953	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11a	3 ^{Note2}	5745	0.215	-1.007	N/A	0.215	30dBm/500 kHz
		5785	0.432	-0.78		0.432	
		5825	0.429	-0.538		0.429	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

4. Max. Power Spectral Density (dBm/500kHz) = Max of each PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

5. We only presented max result (worst case) plots for each test mode.

Audix Technology Corp.

No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City 244, Taiwan

Tel: +886 2 26099301**Fax: +886 2 26099303**

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Antenna Gain (dBi)		Max. Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main		AUX	Main		
802.11a	4	5845	1.670	2.499	N/A	2.8	2.2	4.699	14dBm/MHz (E.I.R.P.)
		5865	2.518	2.496		2.8	2.2	5.318	
		5885	2.700	2.482		2.8	2.2	5.500	

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

2. Max. Power Spectral Density (dBm/1MHz) (EIRP) = Max of each PSD (dBm/1MHz) (AUX or Main) + Antenna Gain (dBi) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/1MHz) ^{Note 3}	Limit
			AUX	Main			
802.11n-HT20	1	5180	3.221	0.058	N/A	4.932	11 dBm/MHz
		5200	2.960	0.225		4.815	
		5240	2.718	0.402		4.723	
	2A	5260	3.023	0.387		4.912	
		5300	2.786	0.422		4.773	
		5320	2.783	0.515		4.806	
	2C	5500	3.748	0.233		5.347	
		5580	3.076	0.661		5.045	
		5700	2.724	1.107		5.001	
		5720	2.631	1.291		5.023	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor $10\log(1/X)$	Total Power Spectral Density (dBm/500kHz) ^{Note 4}	Limit
			AUX	Main			
802.11n-HT20	3 ^{Note2}	5745	0.799	-0.880	N/A	3.050	30dBm/500 kHz
		5785	0.779	-0.391		3.244	
		5825	0.531	-1.217		2.755	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) ^{Note 3}	Total Power Spectral Density (dBm/1MHz) ^{Note 3}	Limit
			AUX	Main				
802.11n-HT20	4	5845	2.802	2.638	N/A	2.51	8.241	14dBm/MHz (E.I.R.P.)
		5865	2.648	2.701		2.51	8.195	
		5885	2.667	2.737		2.51	8.222	

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

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + 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

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

$$\text{Directional gain} = 10 \log[(10^{2.2/10} + 10^{2.8/10})/2] = 2.51 \text{ dBi}$$

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. We only presented max result (worst case) plots for each test mode.

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11n-HT40	1	5190	-0.207	-0.656	N/A	2.585	11 dBm/MHz
		5230	-0.393	-0.394		2.617	
	2A	5270	-0.444	-0.655		2.462	
		5310	-0.770	-1.050		2.103	
	2C	5510	-0.044	-1.002		2.514	
		5550	-0.144	-0.749		2.574	
		5670	-0.339	-0.306		2.688	
		5710	-0.906	-0.320		2.407	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11n-HT40	3 ^{Note2}	5755	-2.737	-3.037	N/A	0.126	30dBm/500 kHz
		5795	-2.936	-3.043		0.021	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11n-HT40	4	5835	-0.906	-0.578	N/A	2.51	4.781	14dBm/MHz (E.I.R.P.)
		5875	-0.390	-0.424		2.51	5.113	

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

2. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + 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

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

Directional gain = $10 \log[(10^{2.2/10} + 10^{2.8/10})/2]$ = 2.51dBi

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			AUX	Main			
802.11ac-VHT80	1	5210	-3.871	-3.744	N/A	-0.797	11 dBm/MHz
	2A	5290	-3.594	-3.592		-0.583	
	2C	5530	-3.020	-3.852		-0.406	
		5610	-3.142	-3.658		-0.382	
		5690	-3.377	-3.542		-0.448	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ac-VHT80	3 Note2	5775	-6.073	-6.130	N/A	-3.091	30dBm/500 kHz

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11ac-VHT80	4	5855	-3.650	-3.694	N/A	2.51	1.848	14dBm/MHz (E.I.R.P.)

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

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

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			AUX	Main			
802.11ac-VHT160	1/2A	5250	-7.017	-6.765	N/A	-3.879	11 dBm/MHz
	2C	5570	-6.701	-6.743		-3.712	

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11ac-VHT160	4	5815	-6.825	-6.858	N/A	2.51	-1.321	14dBm/MHz (E.I.R.P.)

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			AUX	Main			
802.11ax-HE20	1	5180	2.926	2.247	N/A	5.610	11 dBm/MHz
		5200	2.503	2.273		5.400	
		5240	2.122	2.249		5.196	
	2A	5260	2.519	2.200		5.373	
		5300	2.216	2.067		5.152	
		5320	2.244	2.114		5.190	
	2C	5500	2.935	1.747		5.392	
		5580	2.483	2.360		5.432	
		5700	2.390	2.416		5.413	
		5720	2.208	2.269		5.249	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	-0.491	-0.670	N/A	2.431	30dBm/500 kHz
		5785	-1.197	-1.135		1.844	
		5825	-1.230	-1.187		1.802	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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			AUX	Main				
802.11ax-HE20	4	5845	1.399	1.734	N/A	2.51	7.090	14dBm/MHz (E.I.R.P.)
		5865	2.046	1.845		2.51	7.467	
		5885	1.994	2.095		2.51	7.565	

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

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

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			AUX	Main			
802.11ax-HE40	1	5190	-0.393	-0.646	N/A	2.493	11 dBm/MHz
		5230	-0.414	-0.718		2.447	
	2A	5270	-0.449	-0.759		2.409	
		5310	-0.933	-1.163		1.964	
	2C	5510	-0.291	-1.241		2.270	
		5550	-0.306	-0.994		2.374	
		5670	-0.302	-0.434		2.643	
		5710	-1.088	-0.810		2.064	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE40	3 ^{Note2}	5755	-3.635	-3.944	N/A	-0.776	30dBm/500 kHz
		5795	-3.819	-3.901		-0.850	

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

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For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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			AUX	Main				
802.11ax-HE40	4	5835	-1.015	-0.698	N/A	2.51	4.667	14dBm/MHz (E.I.R.P.)
		5875	-0.648	-0.825		2.51	4.785	

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

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

$$\text{Directional gain} = 10 \log[(10^{2.2/10} + 10^{2.8/10})/2] = 2.51\text{dBi}$$

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			AUX	Main			
802.11ax-HE80	1	5210	-3.541	-3.538	N/A	-0.529	11 dBm/MHz
	2A	5290	-3.744	-3.514		-0.617	
	2C	5530	-3.093	-4.076		-0.546	
		5610	-3.183	-3.845		-0.491	
		5690	-3.445	-3.314		-0.369	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11ax-HE80	3 ^{Note2}	5775	-6.787	-6.946	N/A	-3.855	30dBm/500 kHz

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

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For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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			AUX	Main				
802.11ax-HE80	4	5855	-3.688	-3.720	N/A	2.51	1.816	14dBm/MHz (E.I.R.P.)

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

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + 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

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

$$\text{Directional gain} = 10 \log[(10^{2.2/10} + 10^{2.8/10})/2] = 2.51 \text{ dBi}$$

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

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11ax-HE160	1/2A	-6.918	-6.610	N/A	-3.751	-6.918	11 dBm/MHz
	2C	-6.487	-6.470	-4.689	-3.468	-6.487	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

5 We only presented max result (worst case) plots for each test mode.

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11ax-HE160	4	5815	-6.955	-6.822	N/A	2.51	-1.368	14dBm/MHz (E.I.R.P.)

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

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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

Directional gain = $10 \log[(10^{2.2/10} + 10^{2.8/10})/2]$ = 2.51dBi

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				AUX	Main			
802.11ax-HE20	1	5180	26/0	6.031	6.462	0.141	9.403	11 dBm/MHz
			52/37	6.312	6.718	0.150	9.680	
			106/53	5.288	5.465	0.150	8.538	
	2A	5320	26/8	5.005	5.934	0.141	8.646	
			52/40	5.380	6.217	0.150	8.979	
			106/54	4.217	4.781	0.150	7.668	
	2C	5500	26/0	5.919	5.676	0.141	8.950	
			52/37	5.748	5.961	0.150	9.016	
			106/53	4.929	4.419	0.150	7.842	
		5700	26/8	5.708	6.693	0.141	9.380	
			52/40	5.706	6.676	0.150	9.378	
			106/54	4.191	5.397	0.150	7.996	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE20	3 ^{Note2}	5745	26/0	7.599	7.990	0.141	10.950	30dBm/ 500 kHz
			52/37	4.619	4.988	0.150	7.968	
			106/53	1.571	1.885	0.150	4.891	
		5825	26/8	7.529	7.952	0.141	10.897	
			52/40	4.371	4.656	0.150	7.676	
			106/54	1.472	1.893	0.150	4.848	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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				AUX	Main			
802.11ax-HE40	1	5190	242/61	2.470	2.873	0.150	5.836	11 dBm/MHz
	2A	5310	242/62	1.671	2.074		5.037	
	2C	5510	242/61	2.566	2.083		5.492	
		5670	242/62	2.171	2.774		5.643	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE40	3 ^{Note2}	5755	242/61	-1.027	-0.592	0.150	2.356	30dBm/500 kHz
		5795	242/62	-1.195	-0.411		2.375	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE80	1	5210	484/65	-0.636	-0.504	0.155	2.596	11 dBm/MHz
	2A	5290	484/66	-1.620	-0.624		2.072	
	2C	5530	484/65	-0.643	-1.226		2.241	
		5610	484/66	-1.244	-0.740		2.181	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11ax-HE80	3 ^{Note2}	5775	484/65	-4.349	-3.673	0.155	-0.833	30dBm/500 kHz
		5775	484/66	-4.402	-3.790		-0.920	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11ax-HE160	1/2A	5250	996/67	-4.024	-3.572	0.141	-0.641	11 dBm/MHz
			996/S67	-4.241	-3.719		-0.821	
	2C	5570	996/67	-3.605	-3.811		-0.555	
			996/S67	-3.891	-3.612		-0.598	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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			AUX	Main			
802.11be-EHT20	1	5180	3.384	2.633	N/A	6.035	11 dBm/MHz
		5200	2.547	2.612		5.590	
		5240	2.339	2.581		5.472	
	2A	5260	2.569	2.680		5.635	
		5300	2.118	2.333		5.237	
		5320	2.153	2.181		5.177	
	2C	5500	2.718	1.994		5.381	
		5580	2.575	2.387		5.492	
		5700	2.102	2.700		5.422	
		5720	1.856	2.780		5.353	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT20	3 ^{Note2}	5745	-0.580	-0.645	N/A	2.398	30dBm/500 kHz
		5785	-0.551	-0.558		2.456	
		5825	-0.551	-0.817		2.328	

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

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For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) ^{Note 3}	Total Power Spectral Density (dBm/1MHz) ^{Note 2}	Limit
			AUX	Main				
802.11be-HHT20	4	5845	2.061	2.462	N/A	2.51	7.786	14dBm/MHz (E.I.R.P.)
		5865	2.346	2.494		2.51	7.941	
		5885	2.647	2.575		2.51	8.131	

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

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + 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

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

$$\text{Directional gain} = 10 \log[(10^{2.2/10} + 10^{2.8/10})/2] = 2.51 \text{ dBi}$$

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/1MHz) Note 3	Limit
			AUX	Main			
802.11be-EHT40	1	5190	-0.338	-0.670	N/A	2.509	11 dBm/MHz
		5230	-0.324	-0.511		2.594	
	2A	5270	-0.430	-0.860		2.371	
		5310	-0.955	-1.003		2.031	
	2C	5510	-0.069	-1.152		2.433	
		5550	-0.175	-0.924		2.477	
		5670	-0.474	-0.614		2.467	
		5710	-1.016	-0.589		2.213	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT40	3 ^{Note2}	5755	-3.573	-3.927	N/A	-0.736	30dBm/500 kHz
		5795	-3.860	-3.944		-0.891	

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11be-HHT40	4	5835	-1.298	-0.694	N/A	2.51	4.535	14dBm/MHz (E.I.R.P.)
		5875	-1.196	-0.631		2.51	4.616	

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

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

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

$$\text{Directional gain} = 10 \log[(10^{2.2/10} + 10^{2.8/10})/2] = 2.51 \text{ dBi}$$

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			AUX	Main			
802.11be-EHT80	1	5210	-3.351	-3.554	N/A	-0.441	11 dBm/MHz
	2A	5290	-3.473	-3.855		-0.650	
	2C	5530	-3.048	-3.705		-0.354	
		5610	-3.766	-3.906		-0.825	
		5690	-3.892	-3.526		-0.695	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm/500kHz) Note 4	Limit
			AUX	Main			
802.11be-EHT80	3 ^{Note2}	5775	-7.127	-6.903	N/A	-4.003	30dBm/500 kHz

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

3. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) ^{Note 3}	Total Power Spectral Density (dBm/1MHz) ^{Note 2}	Limit
			AUX	Main				
802.11be-HHT80	4	5855	-4.058	-3.621	N/A	2.51	1.686	14dBm/MHz (E.I.R.P.)

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

2. According to KDB 662911 D01 E)2a), Total Power Spectral Density (dBm/1MHz) (EIRP)= Sum to individual PSD (dBm/1MHz) + Directional Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

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

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			AUX	Main			
802.11be-EHT160	1/2A	5250	-7.075	-6.885	N/A	-3.969	11 dBm/MHz
	2C	5570	-6.952	-6.750		-3.840	

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

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Directional Gain (dBi) Note 3	Total Power Spectral Density (dBm/1MHz) Note 2	Limit
			AUX	Main				
802.11be-HHT160	4	5815	-6.934	-6.769	N/A	2.51	-1.330	14dBm/MHz (E.I.R.P.)

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

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				AUX	Main			
802.11be-EHT20	1	5180	26/0	6.061	6.418	0.141	9.394	11 dBm/MHz
			52/37	6.332	6.651	0.141	9.646	
			106/53	4.987	5.515	0.141	8.410	
	2A	5320	26/8	5.019	5.735	0.141	8.543	
			52/40	5.261	6.102	0.141	8.853	
			106/54	4.022	4.982	0.141	7.680	
	2C	5500	26/0	5.650	5.792	0.141	8.873	
			52/37	5.917	5.867	0.141	9.043	
			106/53	4.727	4.544	0.141	7.788	
		5700	26/8	5.665	6.546	0.141	9.279	
			52/40	5.521	6.714	0.141	9.310	
			106/54	3.915	5.235	0.141	7.776	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11be-EHT20	3 ^{Note2}	5745	26/0	7.696	7.872	0.141	10.936	30dBm/ 500 kHz
			52/37	4.614	5.162	0.141	8.048	
			106/53	1.740	1.940	0.141	4.992	
		5825	26/8	7.630	7.997	0.141	10.969	
			52/40	4.424	5.114	0.141	7.934	
			106/54	1.580	1.824	0.141	4.855	

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

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For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11be-EHT40	1	5190	242/61	2.519	2.600	0.141	5.711	11 dBm/MHz
	2A	5310	242/62	1.618	2.167		5.052	
	2C	5510	242/61	2.579	2.039		5.469	
		5670	242/62	2.053	2.773		5.579	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11be-EHT40	3 ^{Note2}	5755	242/61	-1.080	-0.724	0.141	2.253	30dBm/500 kHz
		5795	242/62	-1.087	-0.349		2.449	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11be-EHT80	1	5210	484/65	-0.896	-0.440	0.141	2.489	11 dBm/MHz
	2A	5290	484/66	-1.522	-1.133		1.828	
	2C	5530	484/65	-0.607	-0.952		2.375	
		5610	484/66	-1.344	-0.945		2.011	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 4	Limit
				AUX	Main			
802.11be-EHT80	3 ^{Note2}	5775	484/65	-4.239	-3.838	0.141	-0.883	30dBm/500 kHz
		5775	484/66	-4.529	-3.918		-1.061	

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Total Power Spectral Density (dBm) Note 3	Limit
				AUX	Main			
802.11be-EHT160	1/2A	5250	996/67	-4.063	-3.680	0.141	-0.716	11 dBm/MHz
			996/S67	-4.220	-3.719		-0.811	
	2C	5570	996/67	-3.518	-3.788		-0.500	
			996/S67	-3.865	-3.706		-0.633	

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

2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

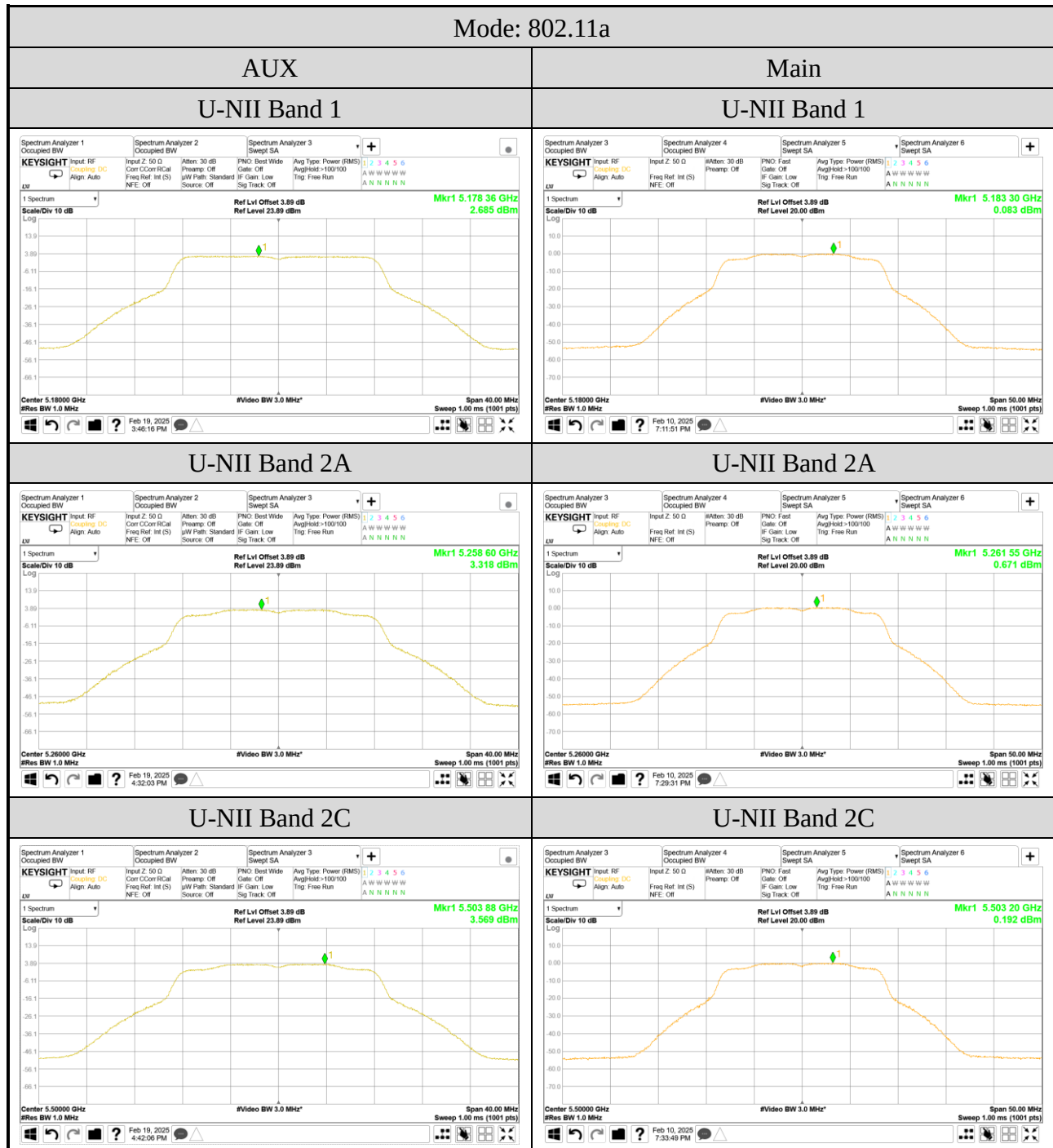
For UNII Band 3, Ref Offset of measured plot: Cable Loss (dB) + BWCF (dB)= 1dB+7dB=8dB

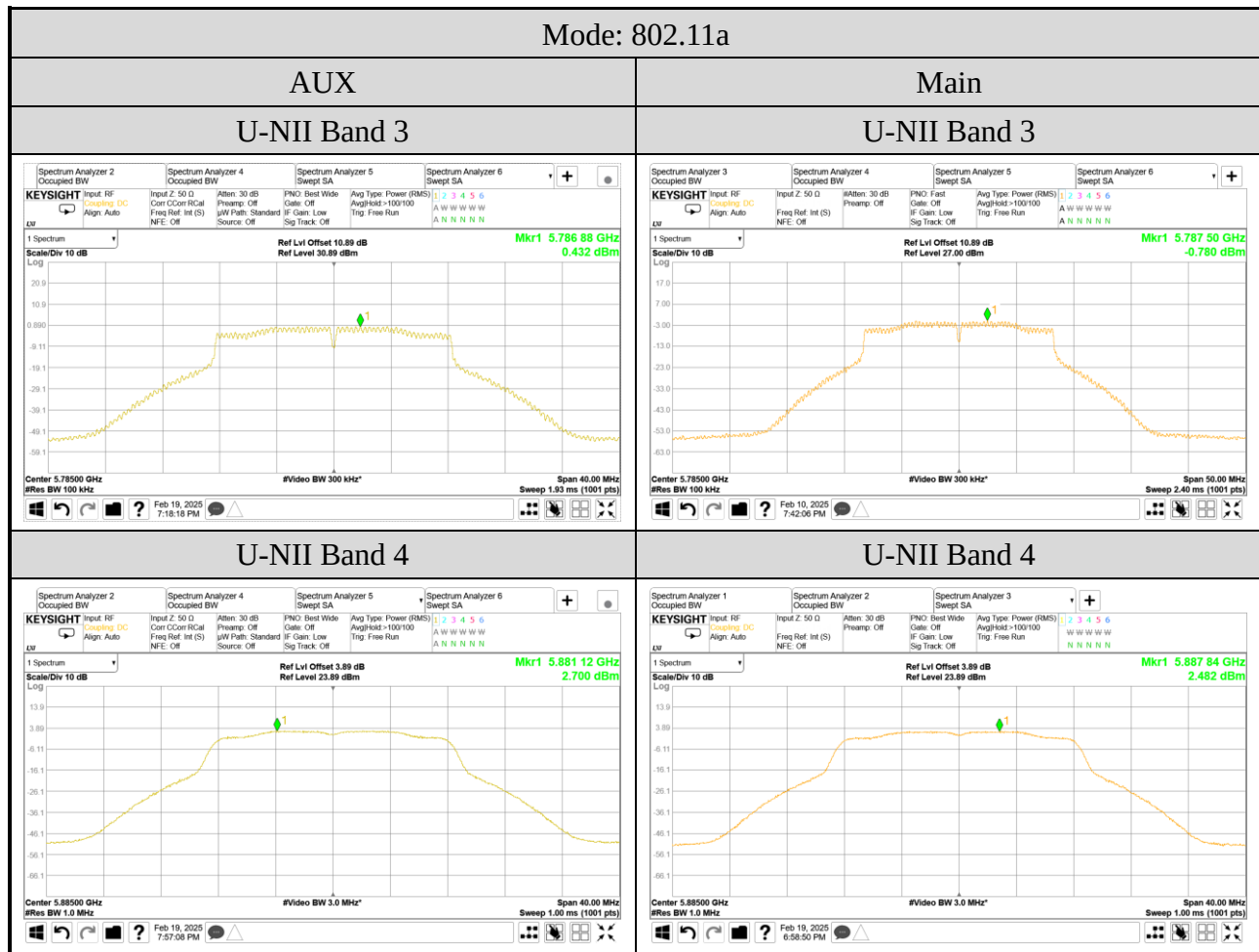
3. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/1MHz) = Sum to individual PSD (dBm/1MHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

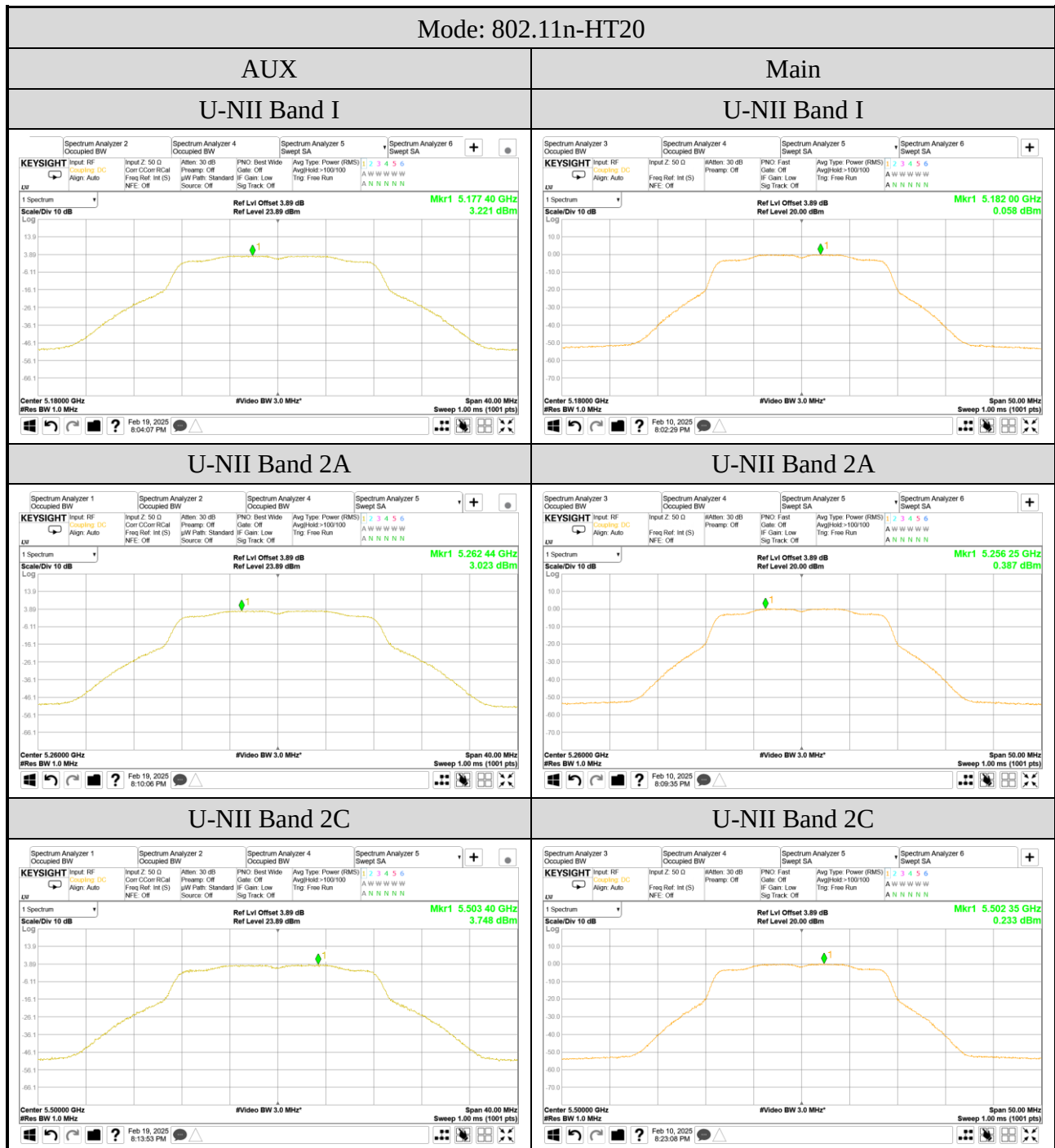
4. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm/500kHz) = Sum to individual PSD (dBm/500kHz) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

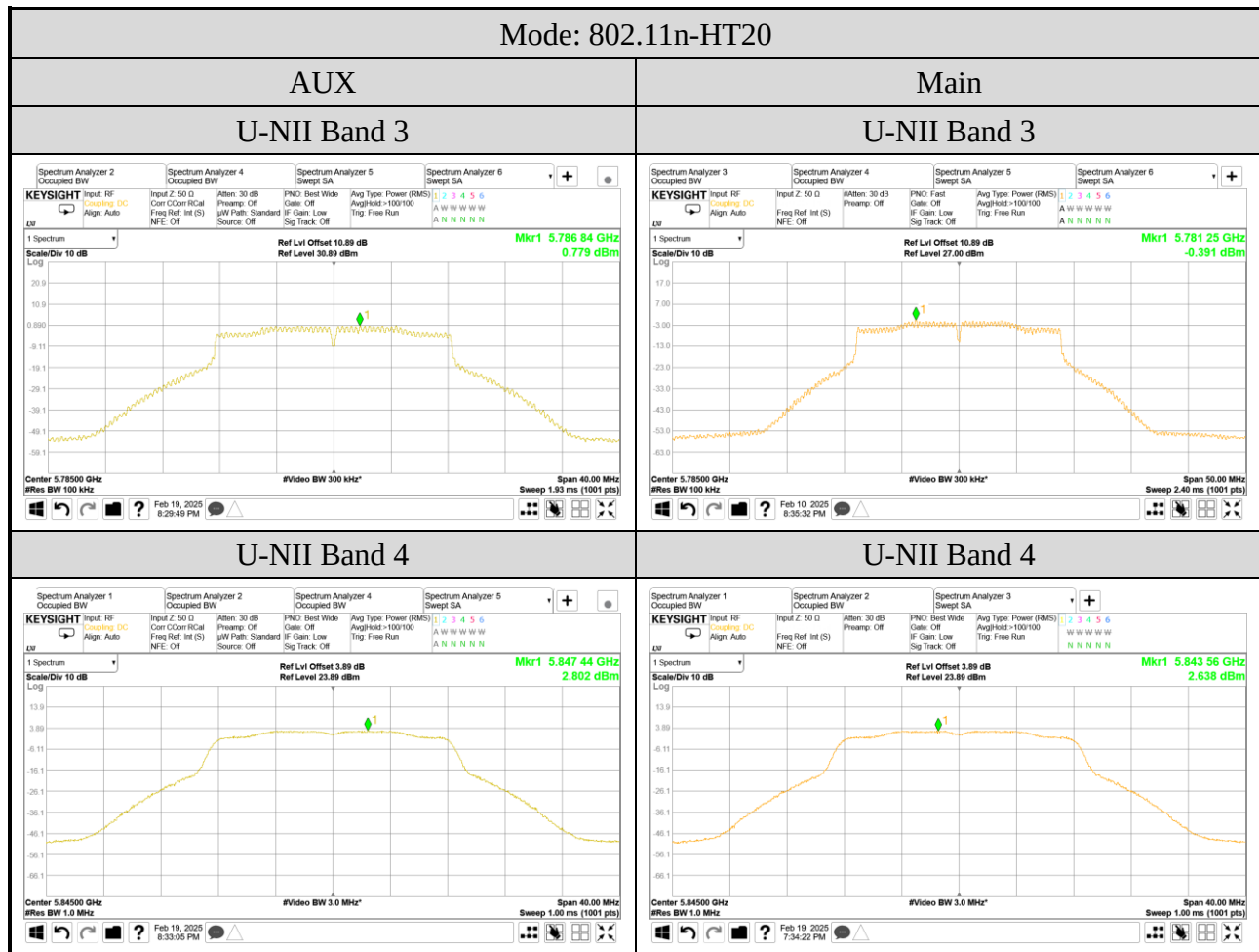
5 We only presented max result (worst case) plots for each test mode.

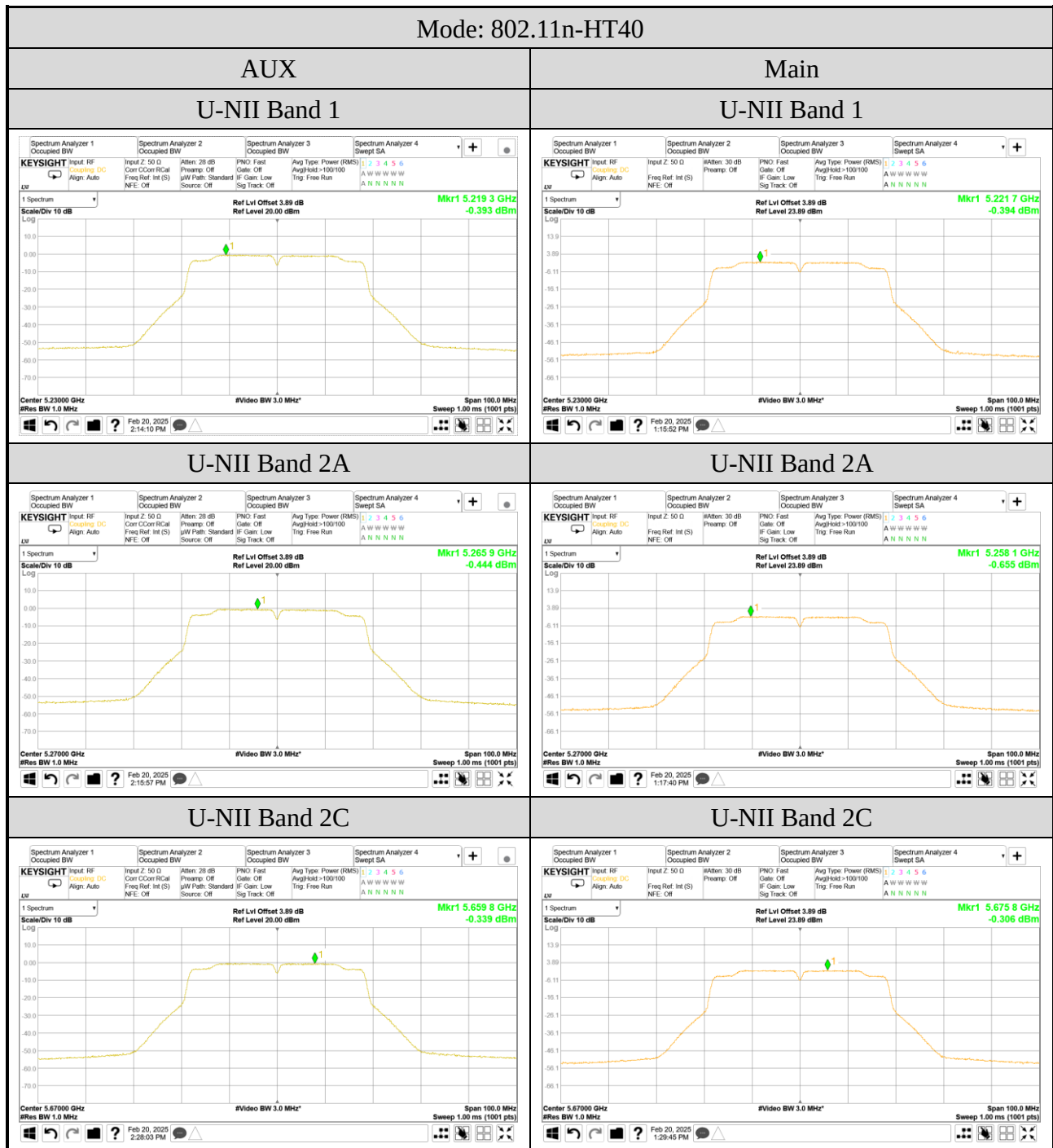
A.4.2 Measurement Plots





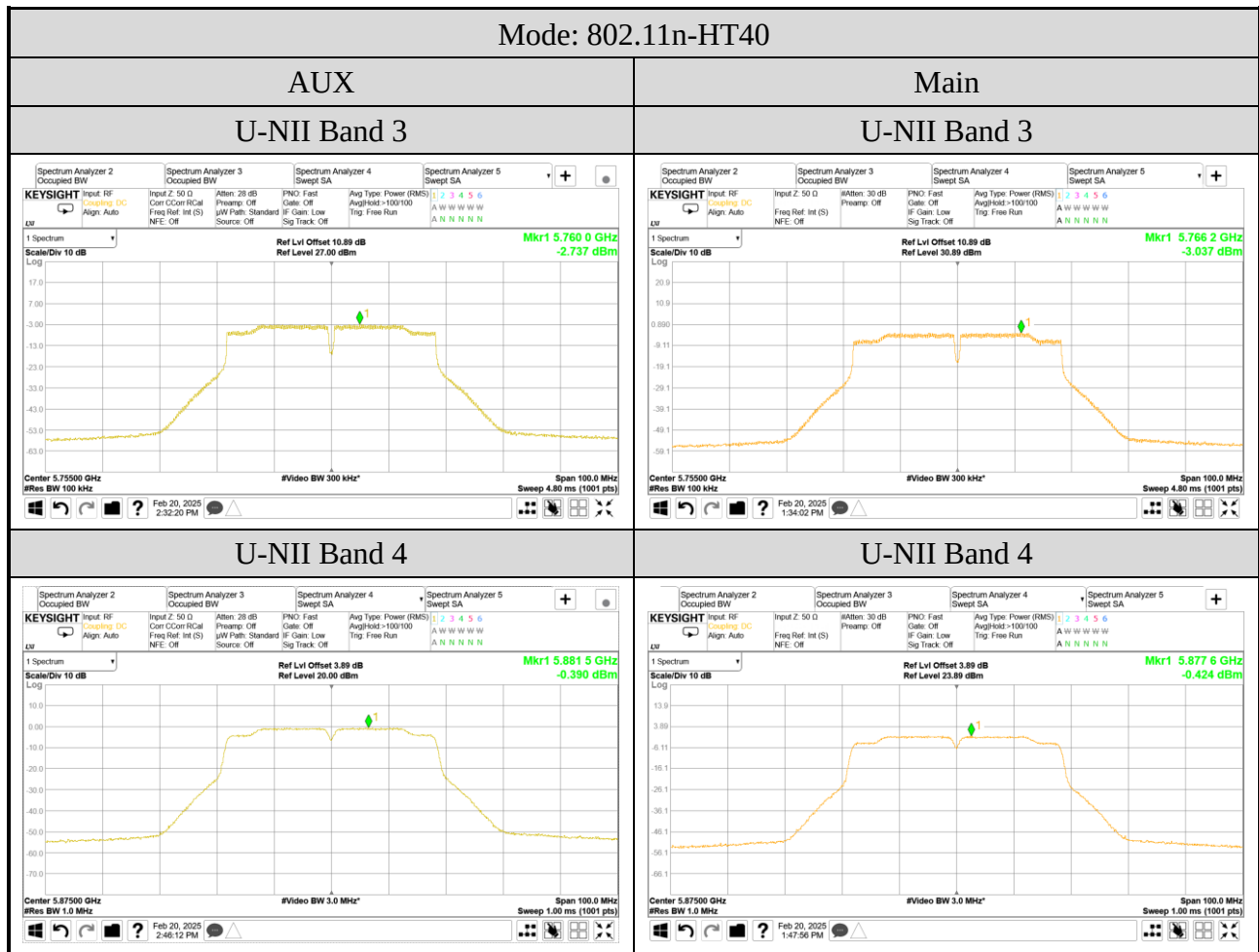


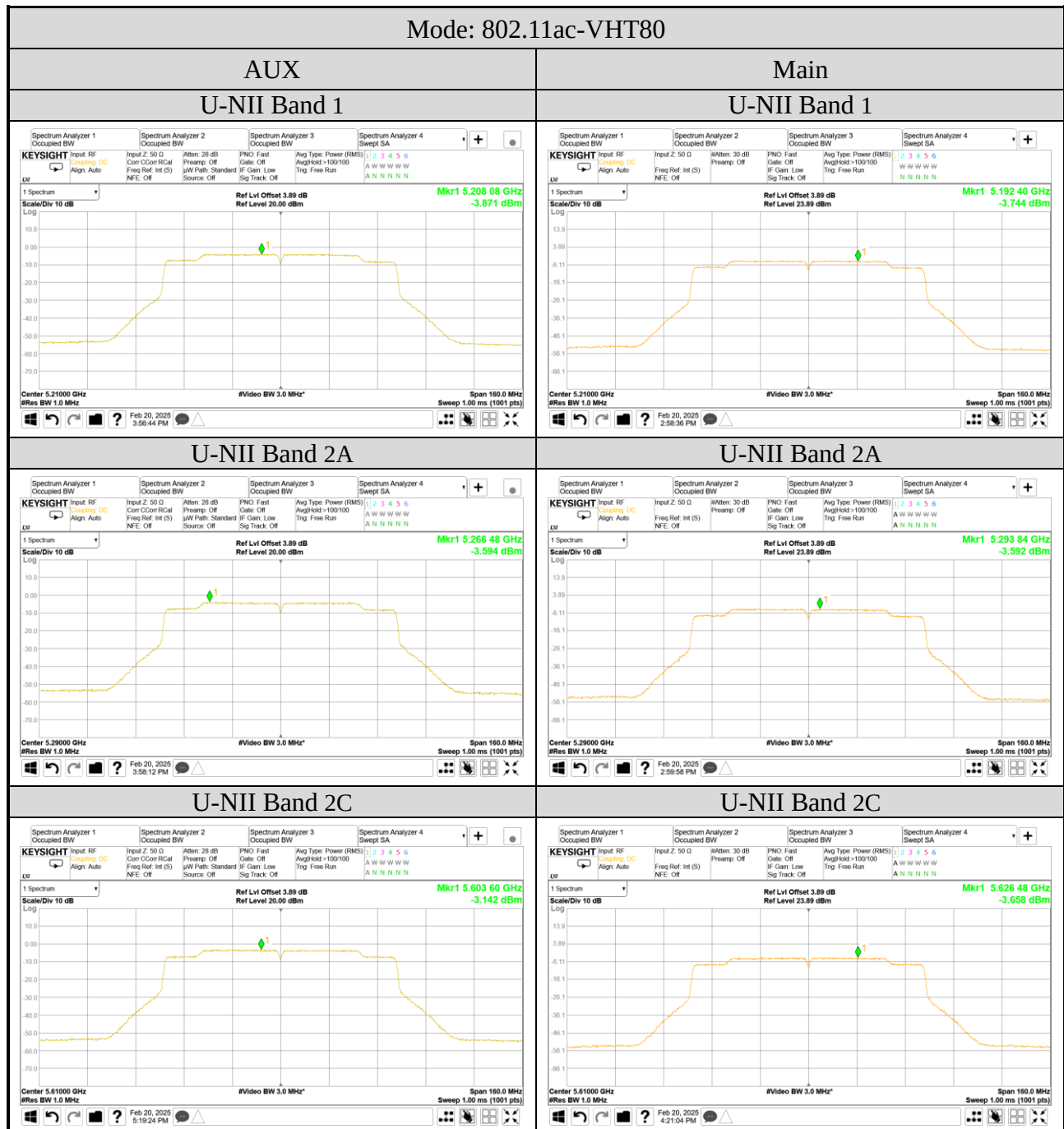


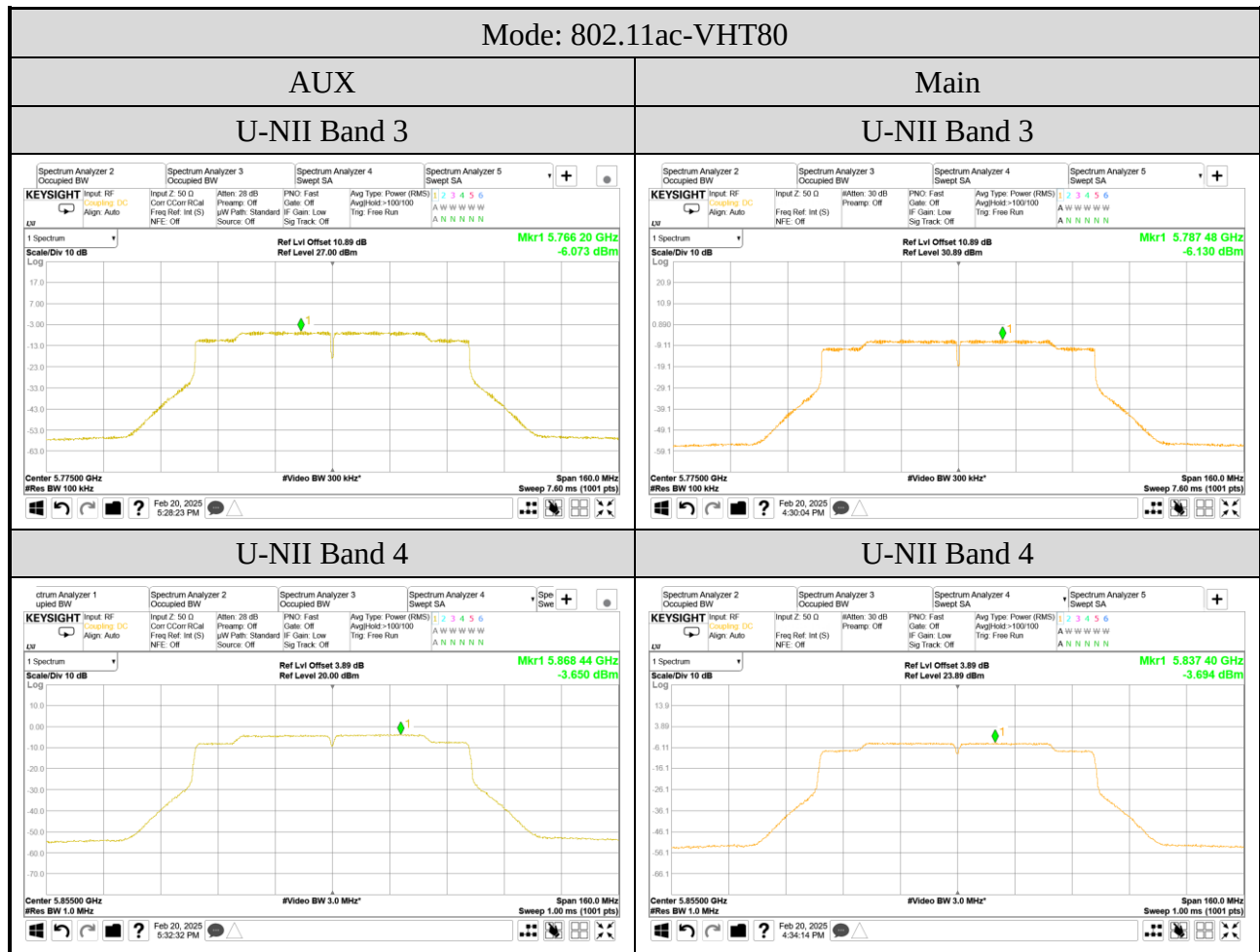


Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

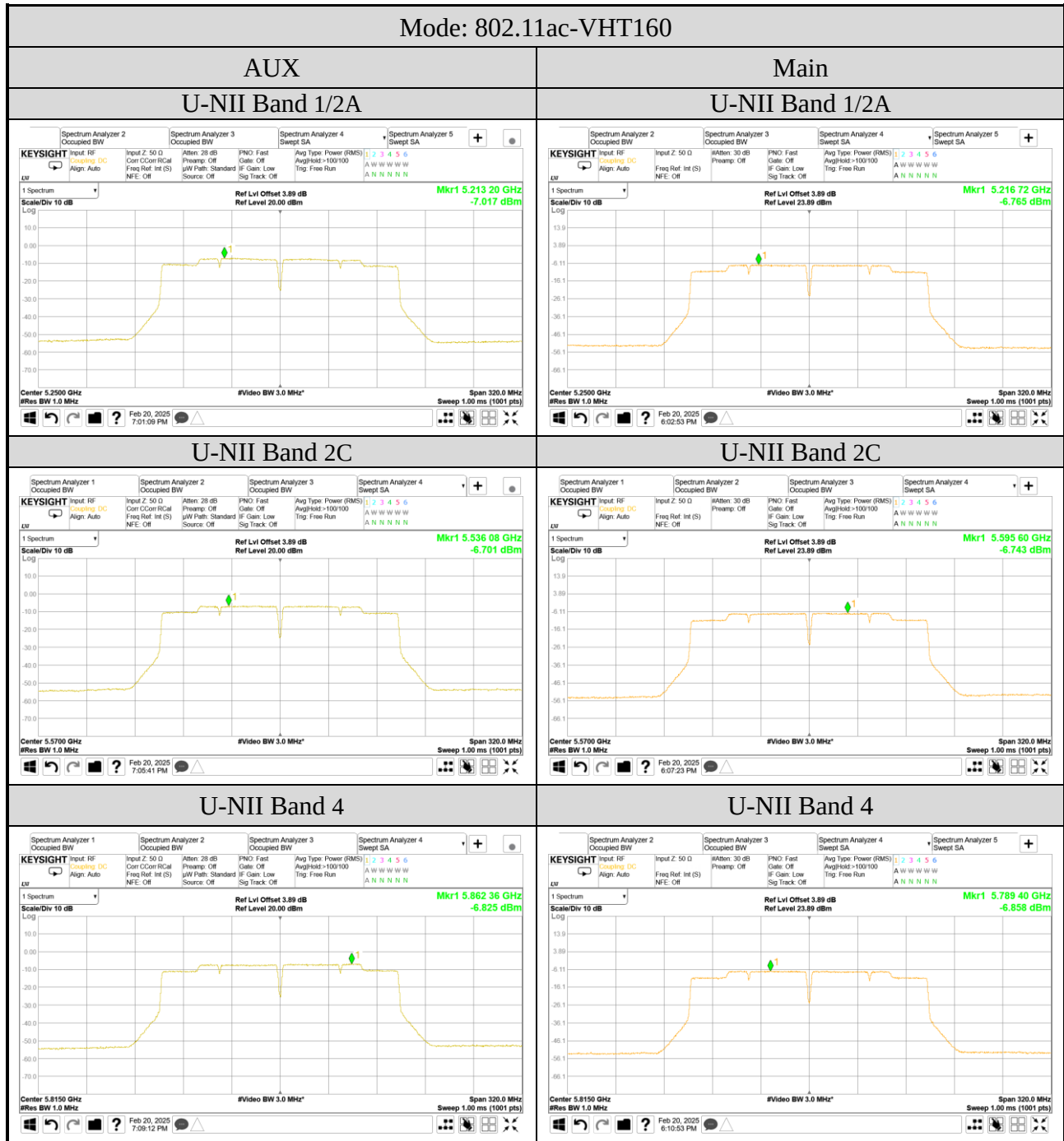


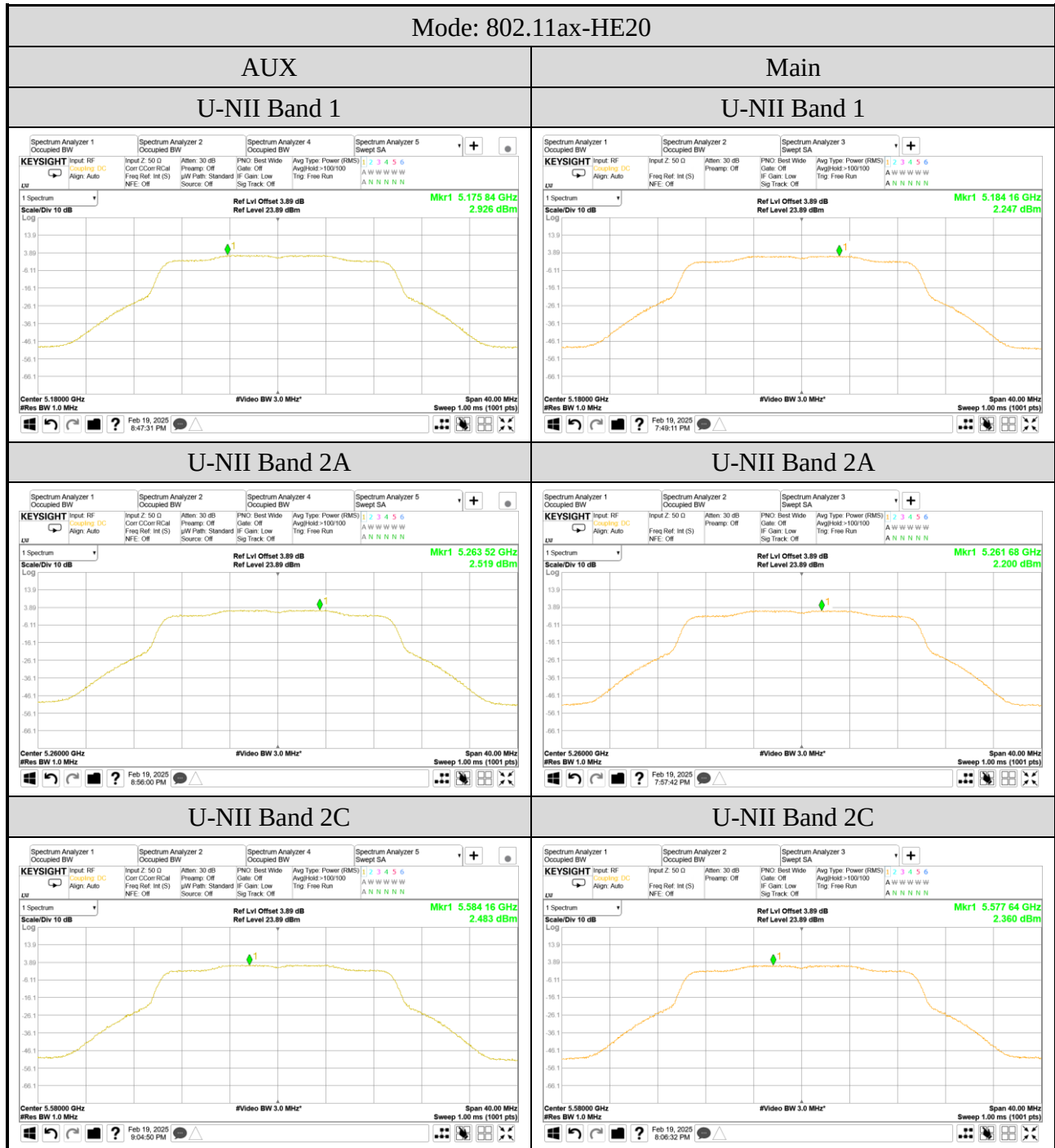


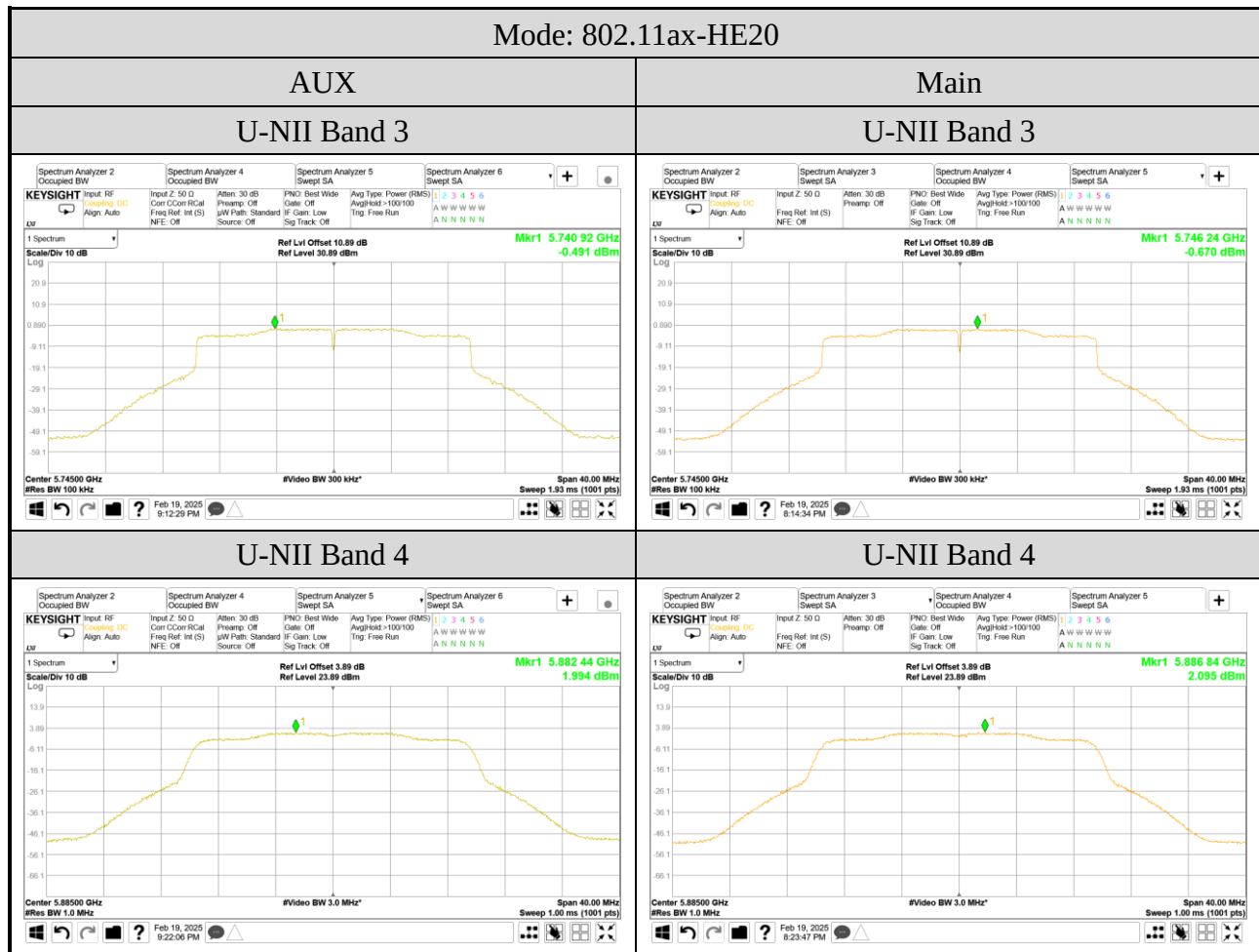


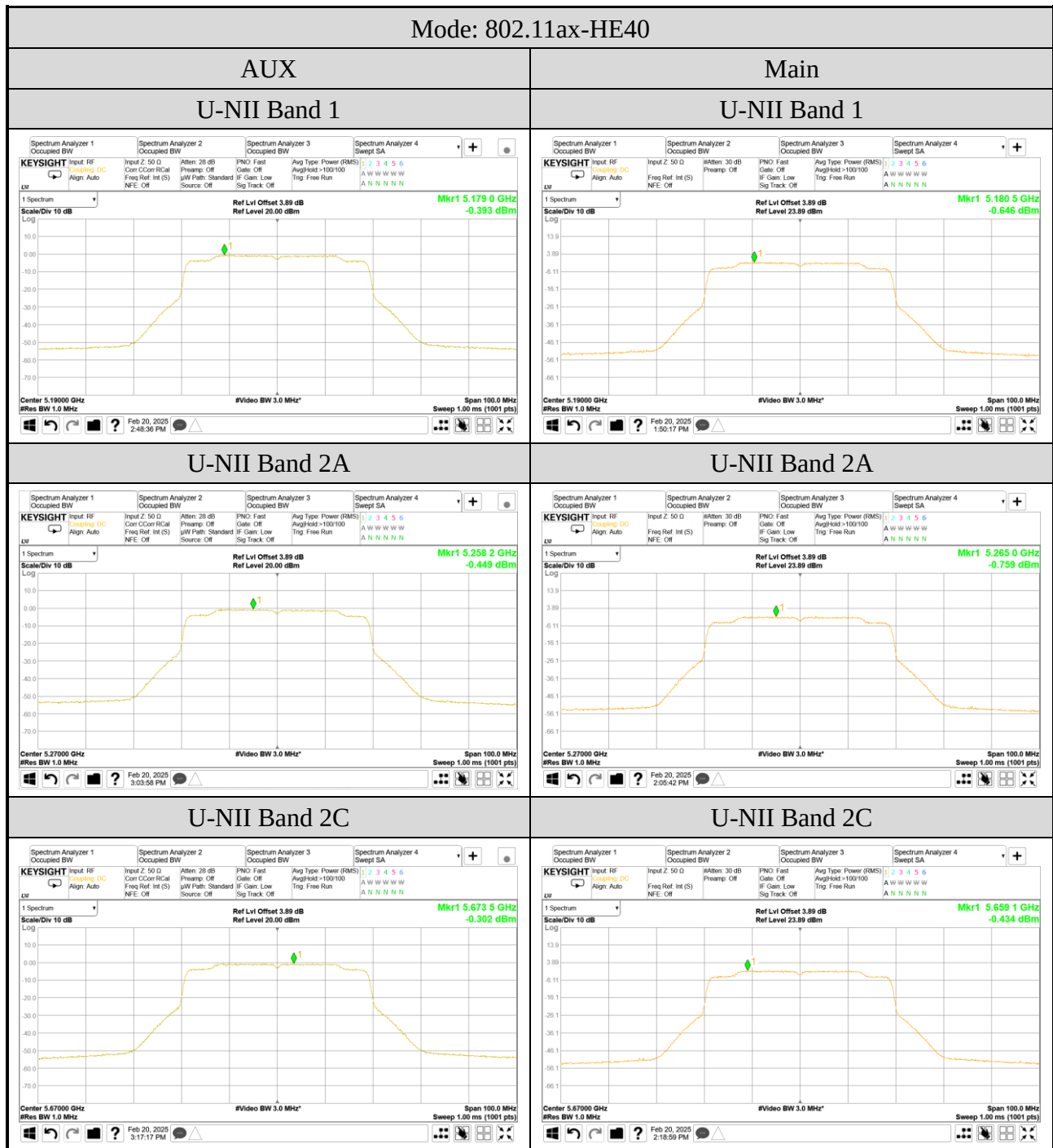
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

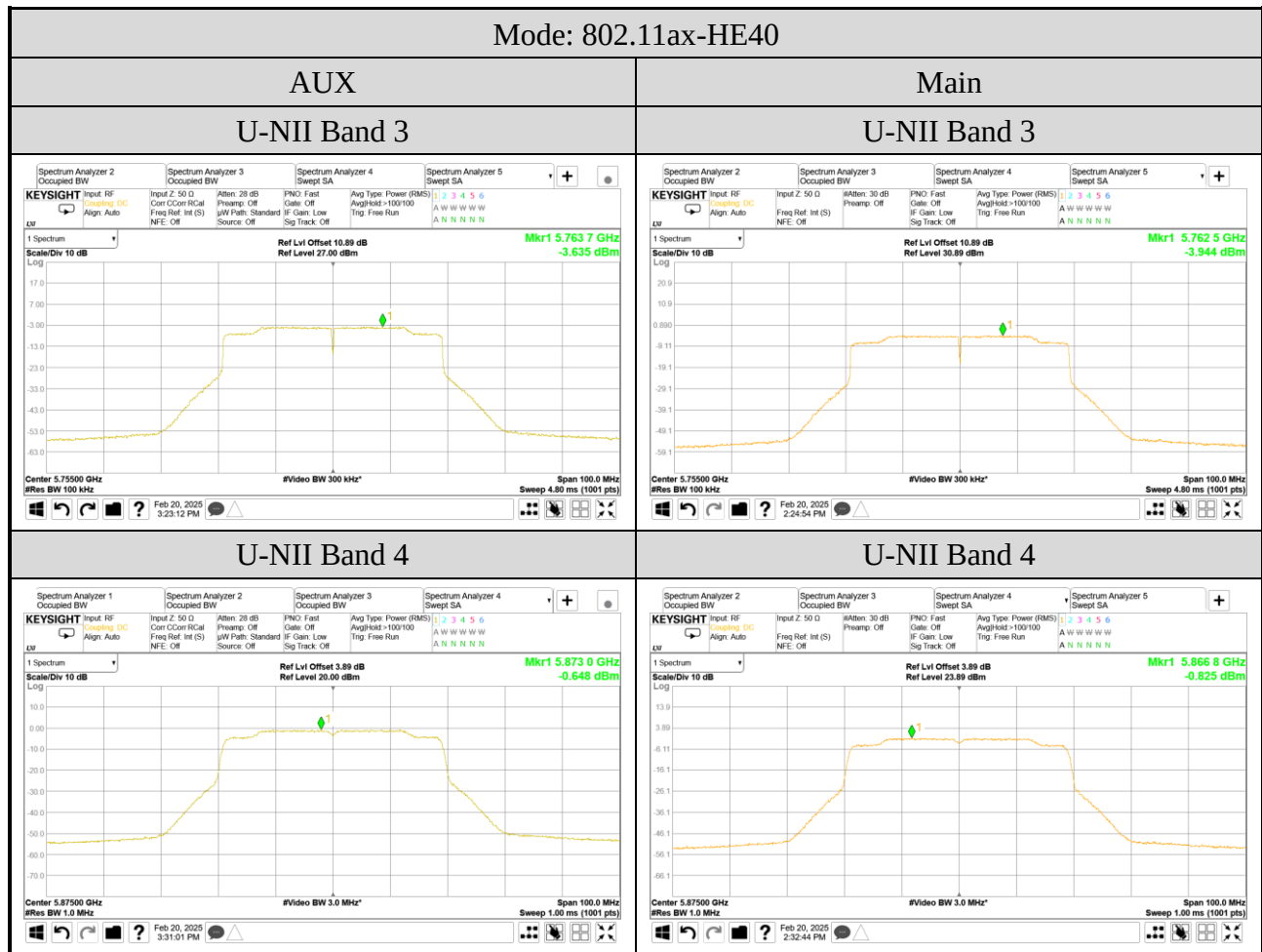
Tel: +886 2 26099301
Fax: +886 2 26099303

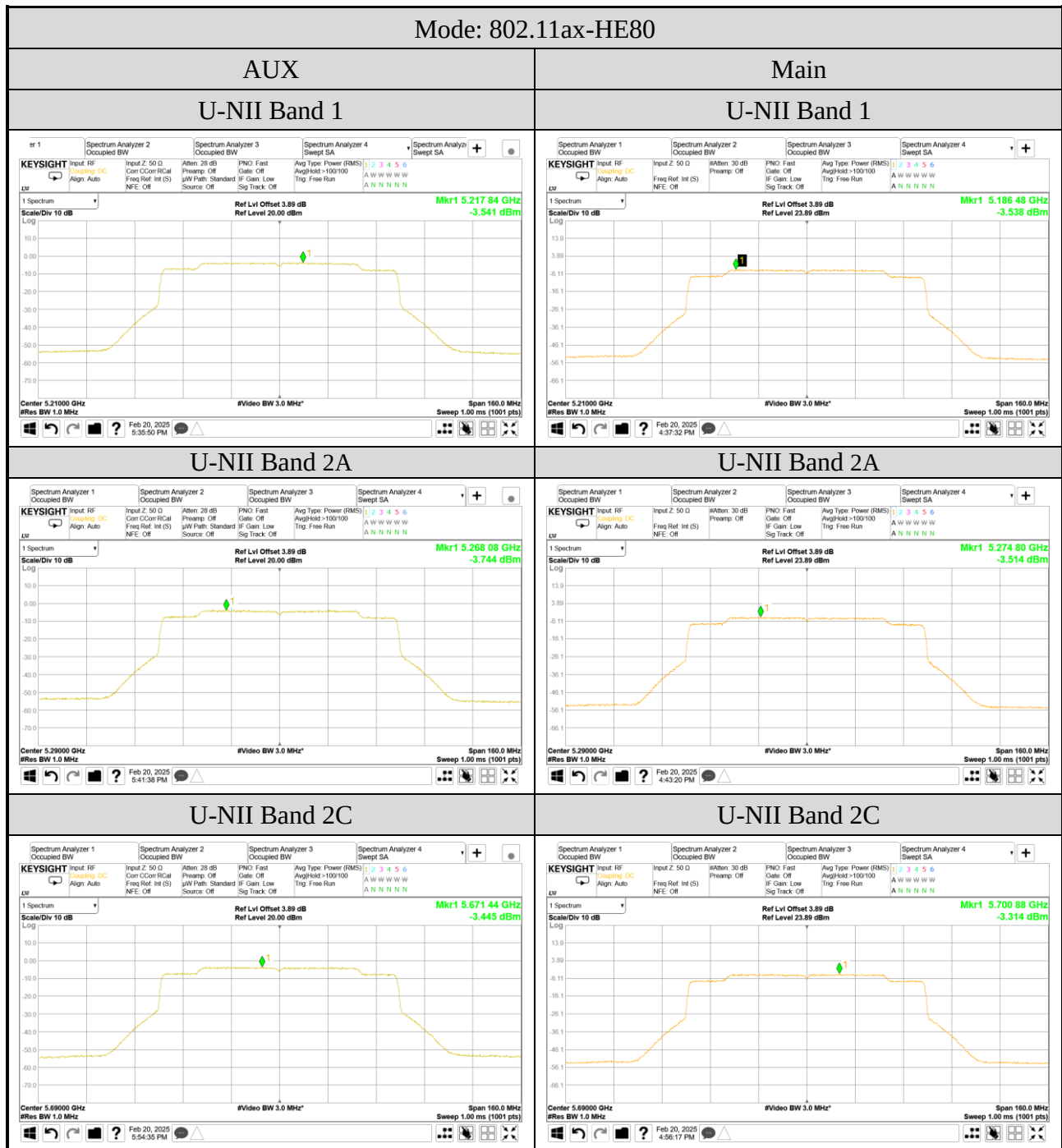


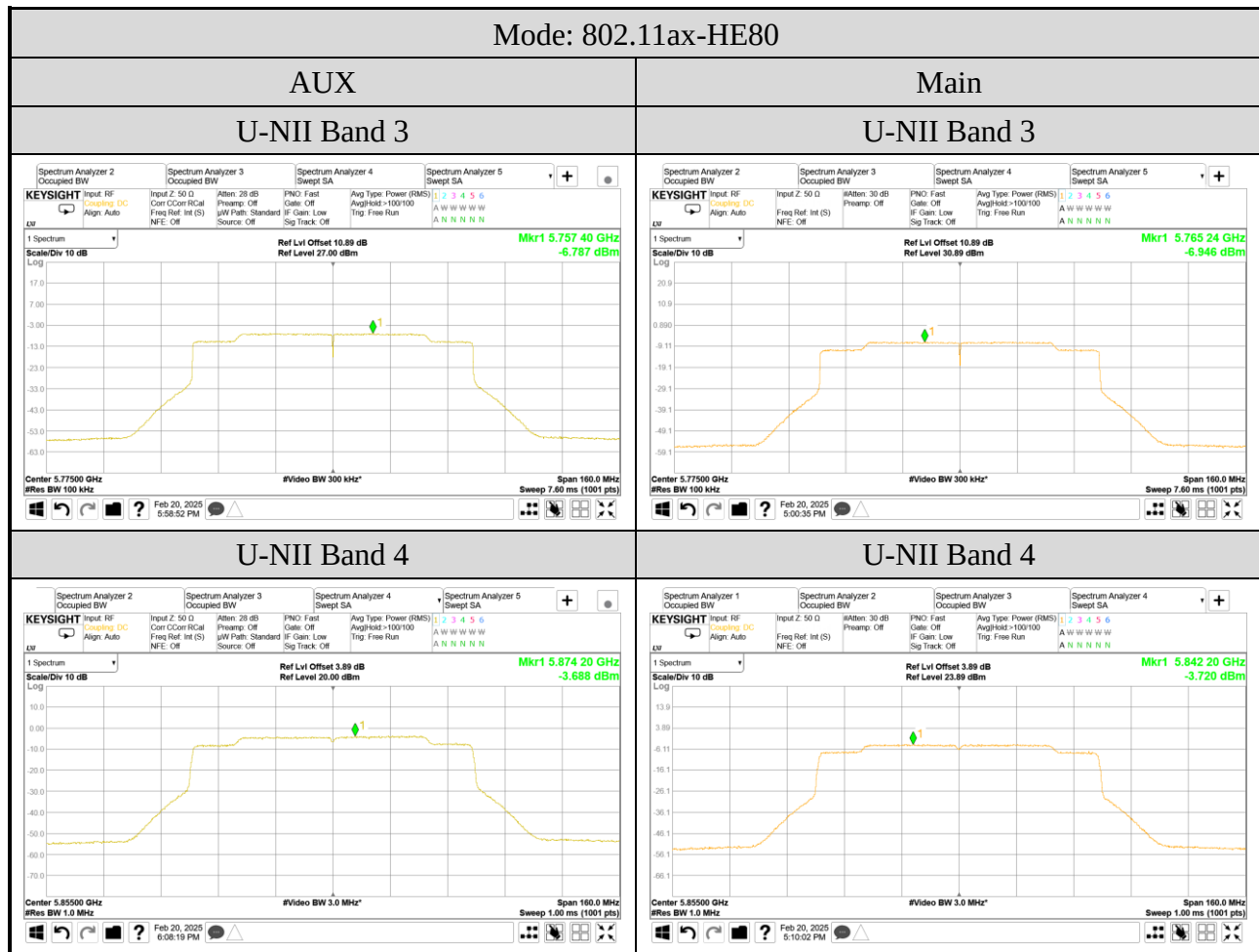






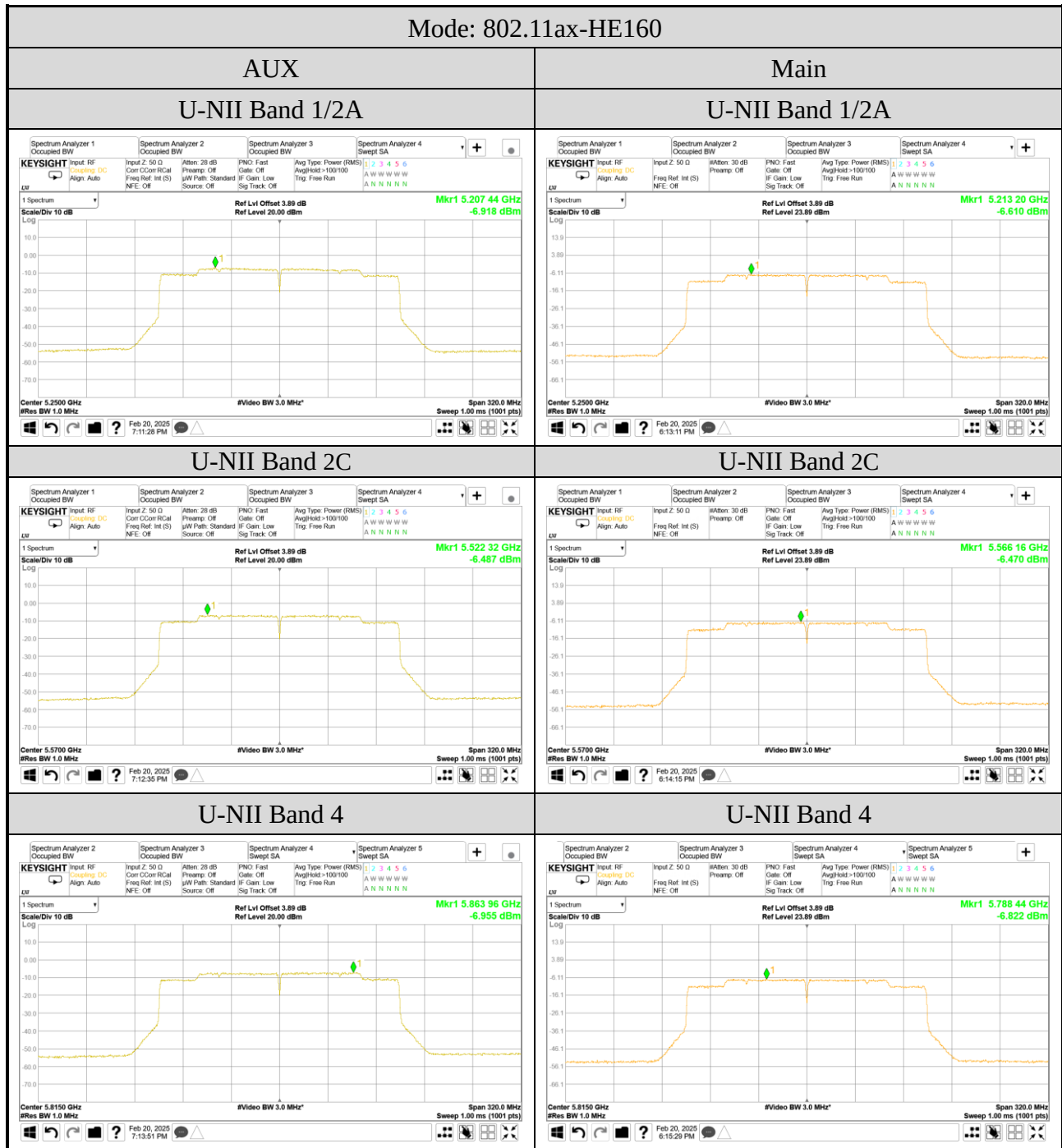






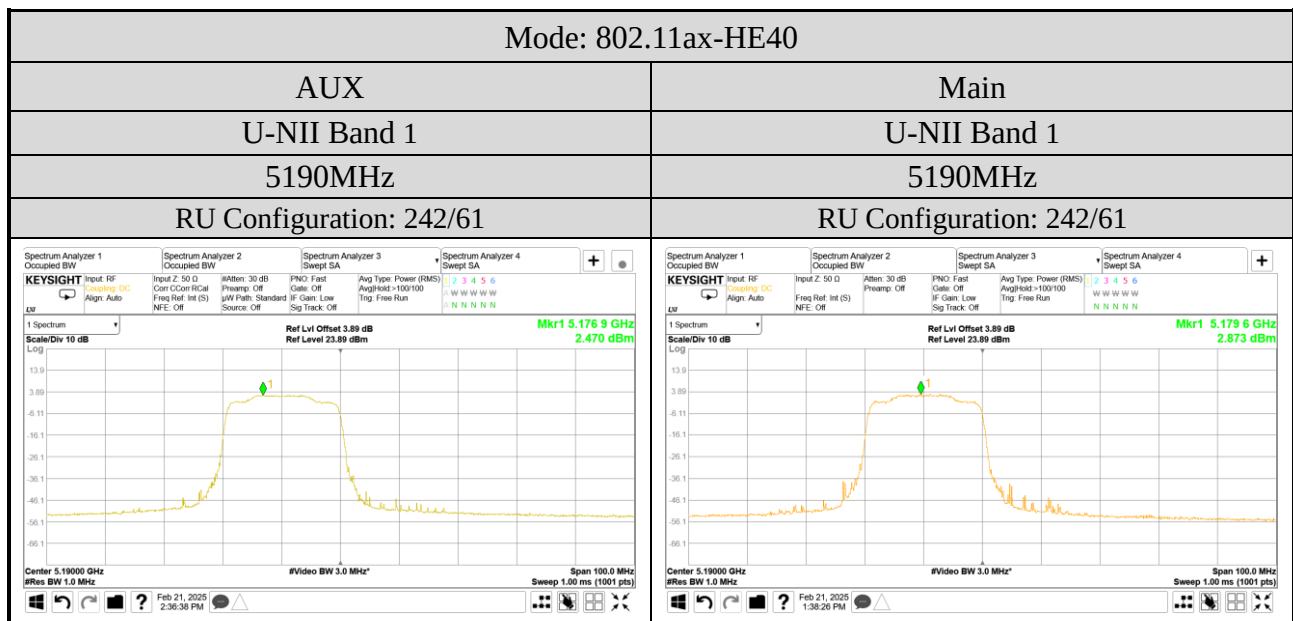
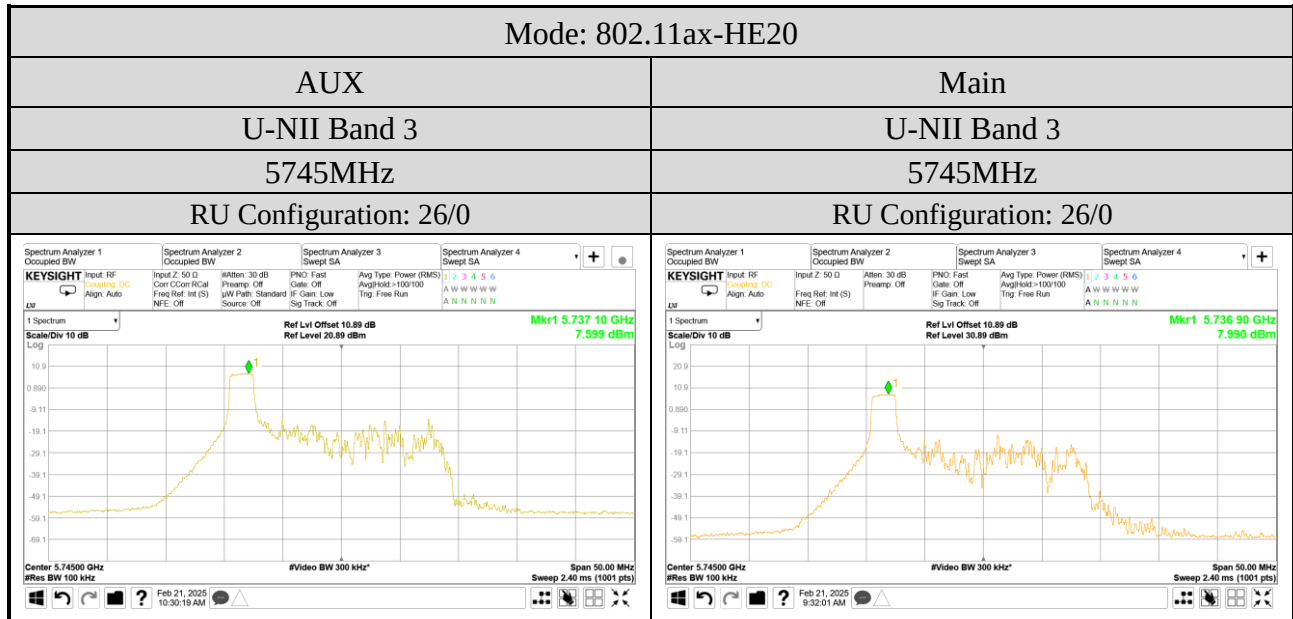
Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

