



Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
802.11b	1MHz	Refer to section 6.6 for duty cycle.
802.11g		
TurboQAM (VHT20)		
TurboQAM (VHT40)		

- All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
- Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- Test data of Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
- Test data of Notation "@" = Fundamental Frequency
- Test data of Notation "*" = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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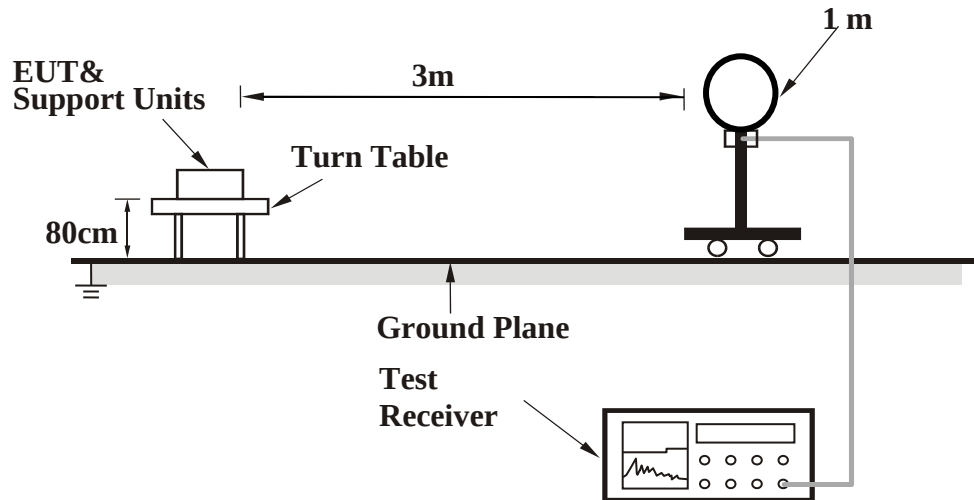
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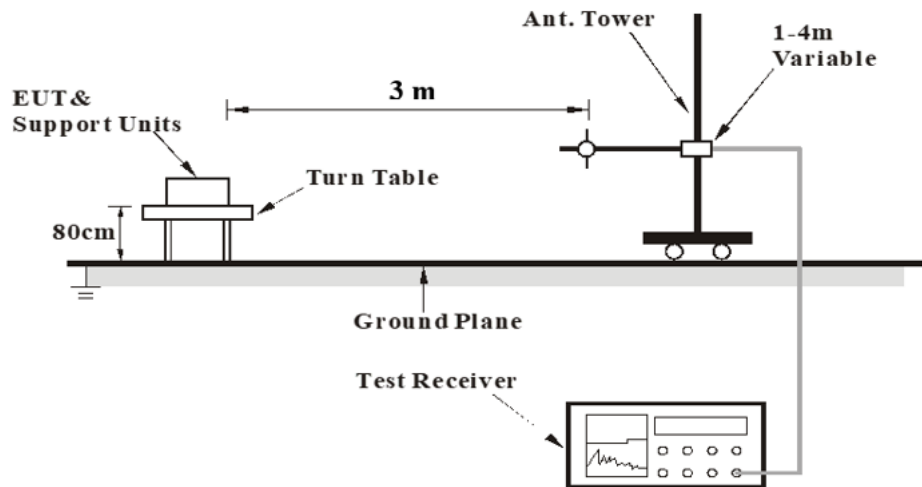
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Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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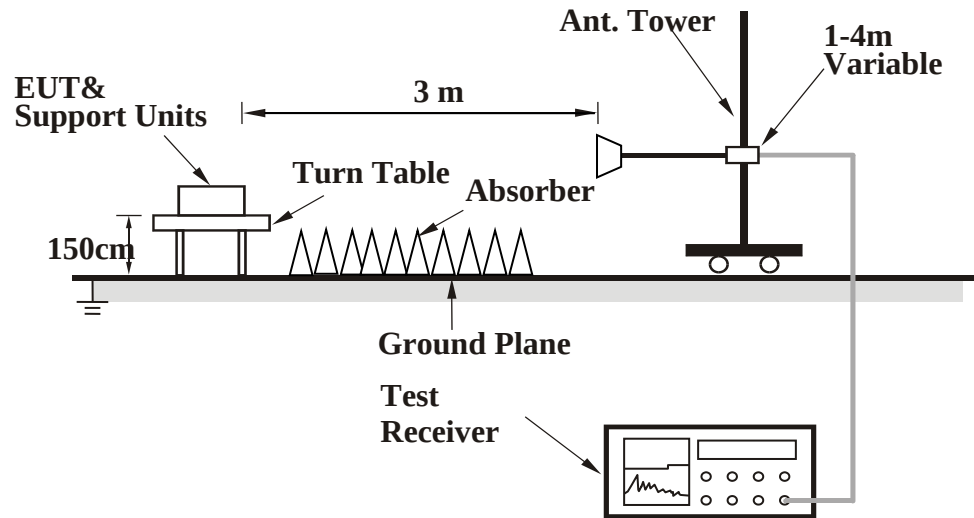
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.



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Test Data

Chip Antenna

Above 1 GHz

Mode	802.11b	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2315.89	30.58	16.17	46.75	54	-7.25	AVG
		2346.1	42.11	16.04	58.15	74	-15.85	PK
	@	2412	90.33	16.13	106.46	N/A	N/A	PK
	@	2412	86.69	16.13	102.82	N/A	N/A	AVG
	*	4824	43.66	2.55	46.21	74	-27.79	PK
Vertical		2315.13	40.49	16.18	56.67	74	-17.33	PK
		2351.99	30.73	16.03	46.76	54	-7.24	AVG
	@	2412	76.84	16.13	92.97	N/A	N/A	PK
	@	2412	73.54	16.13	89.67	N/A	N/A	AVG
	*	4824	38.6	2.55	41.15	74	-32.85	PK

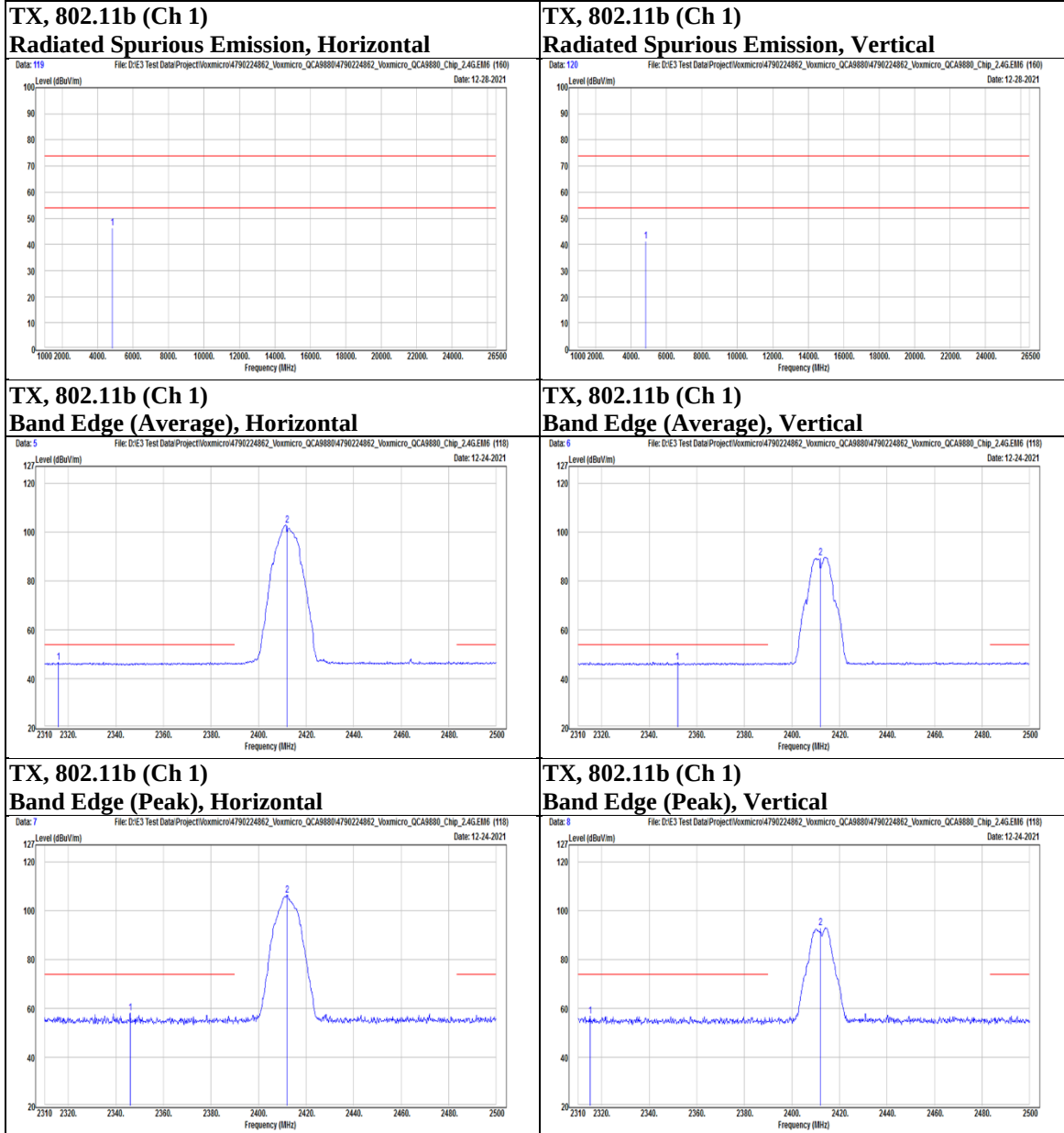
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Mode	802.11b	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2320.07	30.62	16.16	46.78	54	-7.22	AVG
		2335.46	42.15	16.09	58.24	74	-15.76	PK
	@	2437	91.17	16.12	107.29	N/A	N/A	PK
	@	2437	88.91	16.12	105.03	N/A	N/A	AVG
		2485.18	30.56	16.1	46.66	54	-7.34	AVG
		2497.91	40.54	16.1	56.64	74	-17.36	PK
	*	4874	43.19	2.66	45.85	74	-28.15	PK
Vertical		2317.03	30.19	16.17	46.36	54	-7.64	AVG
		2382.96	41.08	16.09	57.17	74	-16.83	PK
	@	2437	77.53	16.12	93.65	N/A	N/A	PK
	@	2437	73.42	16.12	89.54	N/A	N/A	AVG
		2488.41	40.62	16.1	56.72	74	-17.28	PK
		2488.79	30.51	16.1	46.61	54	-7.39	AVG
	*	4874	42.15	2.66	44.81	74	-29.19	PK

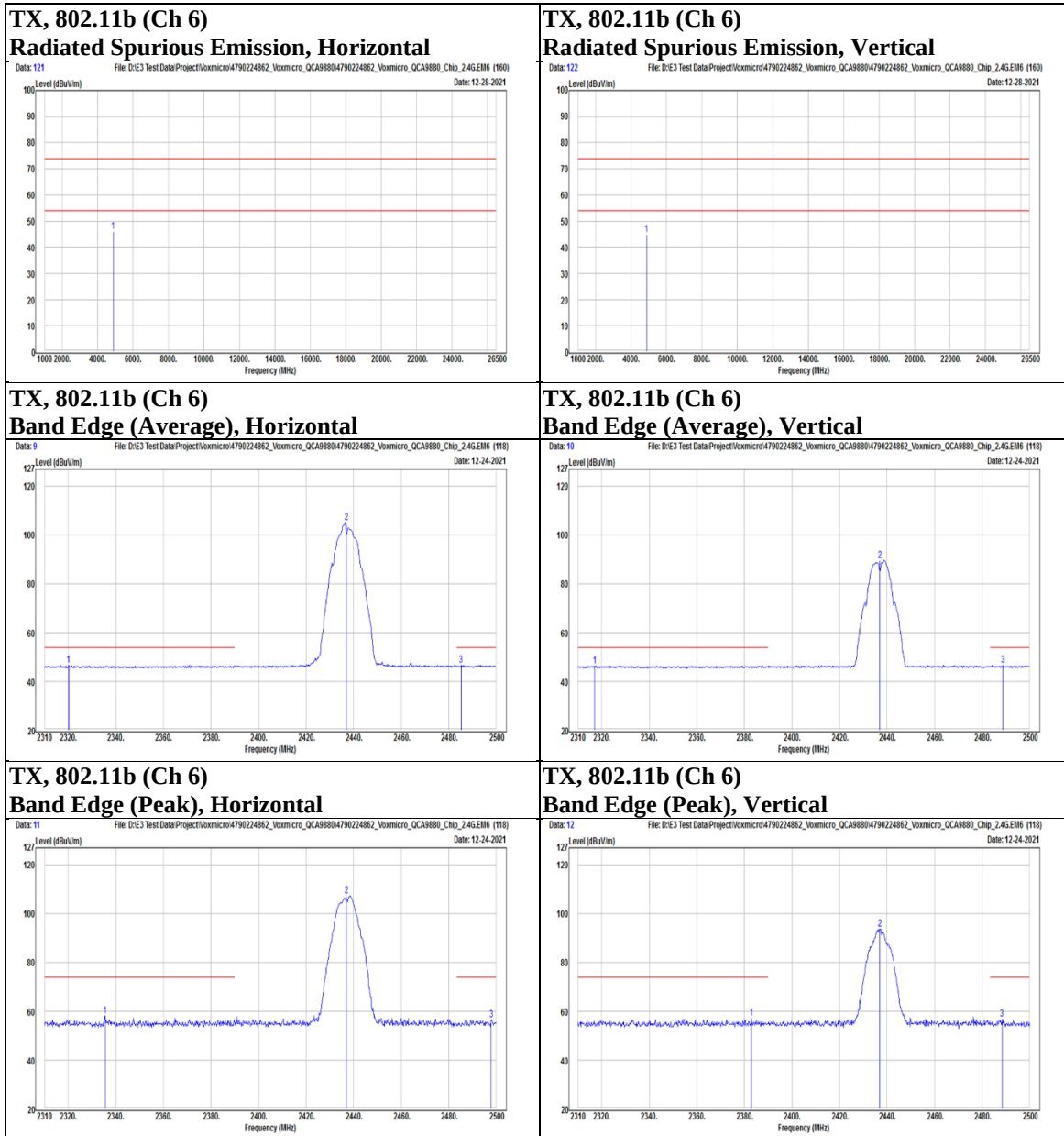
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Mode	802.11b	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	91.93	16.12	108.05	N/A	N/A	PK
	@	2462	88.37	16.12	104.49	N/A	N/A	AVG
		2483.66	40.41	16.1	56.51	74	-17.49	PK
		2487.84	31.1	16.1	47.2	54	-6.8	AVG
	*	4924	46.12	2.61	48.73	74	-25.27	PK
Vertical	@	2462	79.57	16.12	95.69	N/A	N/A	PK
	@	2462	76.33	16.12	92.45	N/A	N/A	AVG
		2484.42	30.65	16.1	46.75	54	-7.25	AVG
		2499.43	41.03	16.1	57.13	74	-16.87	PK
	*	4924	37.41	2.61	40.02	74	-33.98	PK

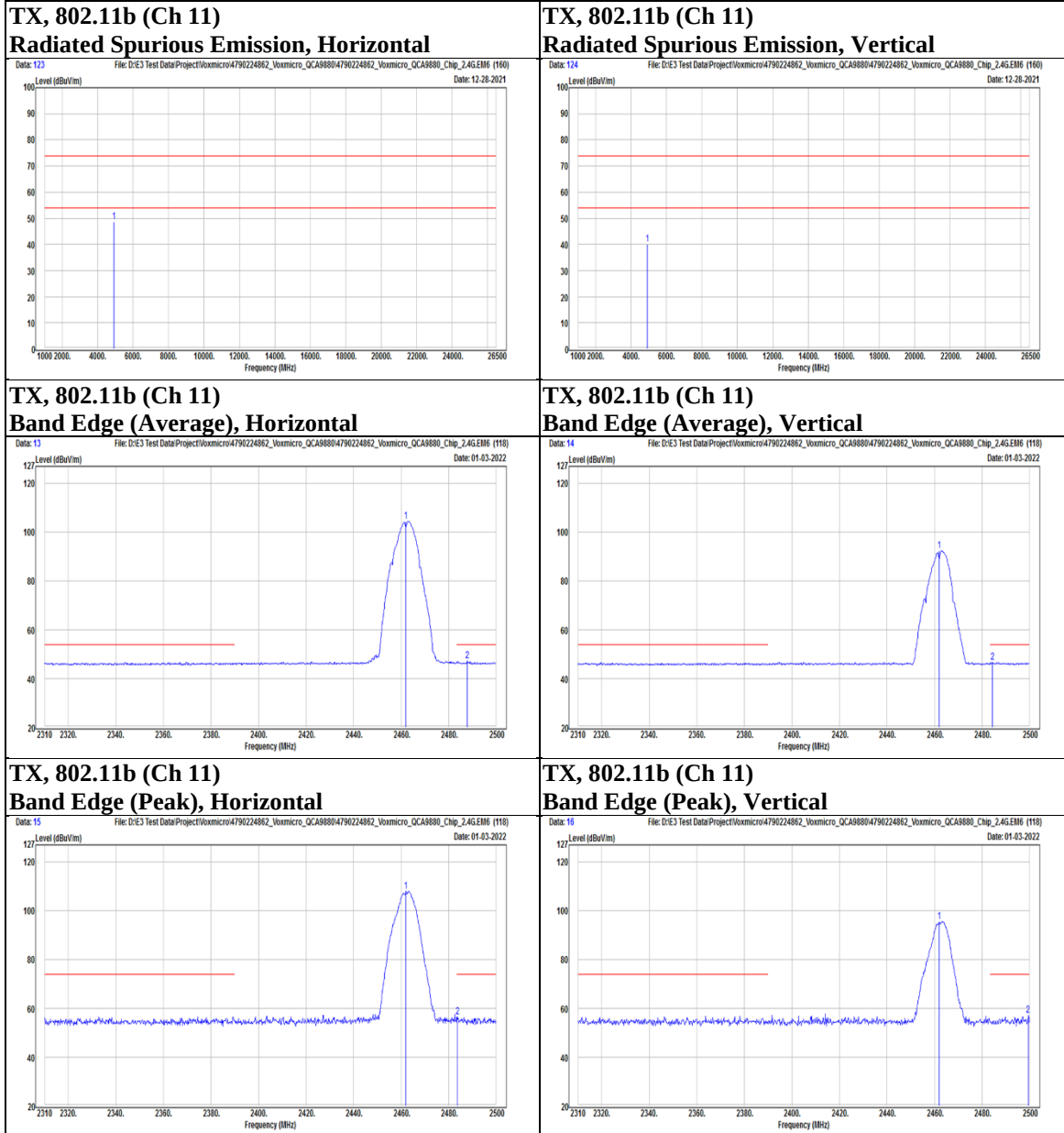
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Mode	802.11g	Channel	1
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2389.23	46.14	16.1	62.24	74	-11.76	PK
		2389.99	34.66	16.1	50.76	54	-3.24	AVG
	@	2412	94.02	16.13	110.15	N/A	N/A	PK
	@	2412	84.76	16.13	100.89	N/A	N/A	AVG
	*	4824	42.69	2.55	45.24	74	-28.76	PK
Vertical		2351.8	40.94	16.03	56.97	74	-17.03	PK
		2372.51	30.56	16.08	46.64	54	-7.36	AVG
	@	2412	78.26	16.13	94.39	N/A	N/A	PK
	@	2412	72.17	16.13	88.3	N/A	N/A	AVG
	*	4824	38.18	2.55	40.73	74	-33.27	PK

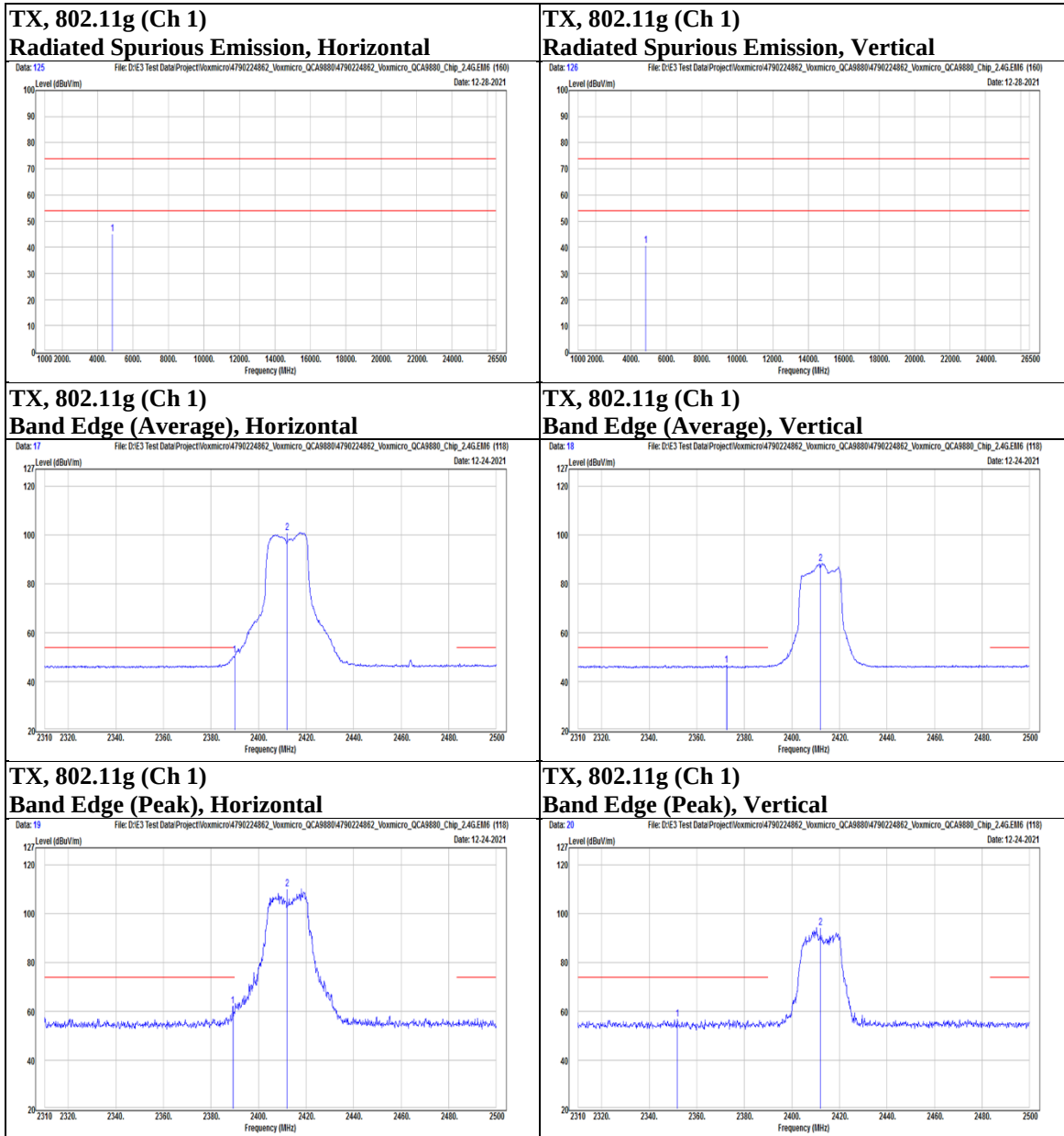
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Mode	802.11g	Channel	2
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.42	32.81	16.1	48.91	54	-5.09	AVG
		2389.61	45.67	16.1	61.77	74	-12.23	PK
	@	2417	94.68	16.13	110.81	N/A	N/A	PK
	@	2417	86.94	16.13	103.07	N/A	N/A	AVG
	*	4834	48.74	2.61	51.35	74	-22.65	PK
Vertical		2327.67	30.4	16.11	46.51	54	-7.49	AVG
		2386	40.54	16.09	56.63	74	-17.37	PK
	@	2417	81.1	16.13	97.23	N/A	N/A	PK
	@	2417	73.96	16.13	90.09	N/A	N/A	AVG
	*	4834	38.23	2.61	40.84	74	-33.16	PK

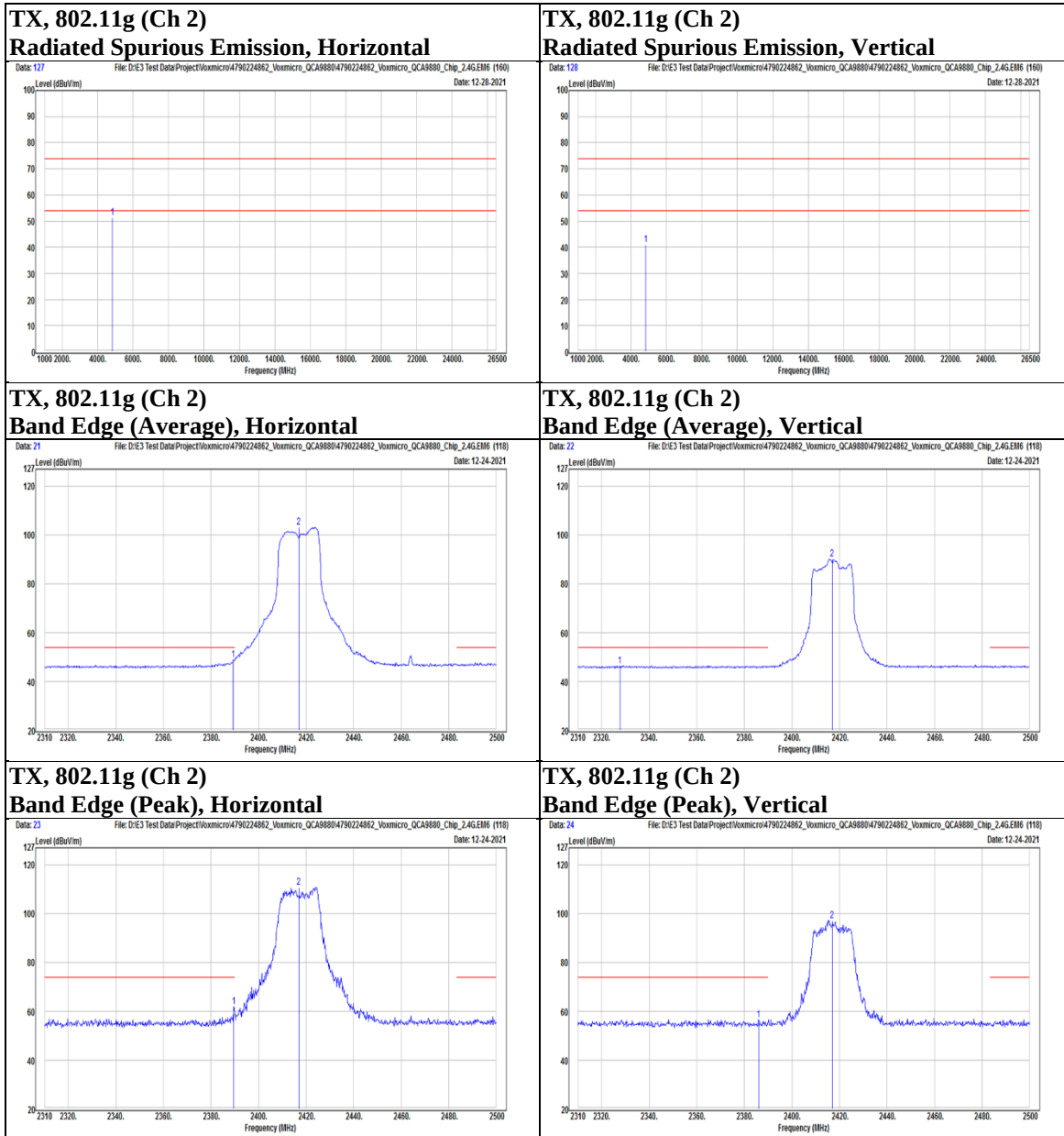
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Mode	802.11g	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2379.54	43.81	16.08	59.89	74	-14.11	PK
		2389.99	31.77	16.1	47.87	54	-6.13	AVG
	@	2437	99.17	16.12	115.29	N/A	N/A	PK
	@	2437	91.17	16.12	107.29	N/A	N/A	AVG
		2483.85	46.14	16.1	62.24	74	-11.76	PK
		2484.04	33.92	16.1	50.02	54	-3.98	AVG
		4874	49.92	2.66	52.58	74	-21.42	PK
		4874	42.04	2.66	44.7	54	-9.3	AVG
		7311	43.86	10.62	54.48	74	-19.52	PK
		7311	36.11	10.62	46.73	54	-7.27	AVG
Vertical		2322.54	41.75	16.14	57.89	74	-16.11	PK
		2363.58	30.61	16.06	46.67	54	-7.33	AVG
	@	2437	84.14	16.12	100.26	N/A	N/A	PK
	@	2437	76.58	16.12	92.7	N/A	N/A	AVG
		2484.04	30.31	16.1	46.41	54	-7.59	AVG
		2497.34	41	16.1	57.1	74	-16.9	PK
		4874	45.1	2.66	47.76	74	-26.24	PK
		4874	36.74	2.66	39.4	54	-14.6	AVG
		7311	42.28	10.62	52.9	74	-21.1	PK
		7311	34.94	10.62	45.56	54	-8.44	AVG

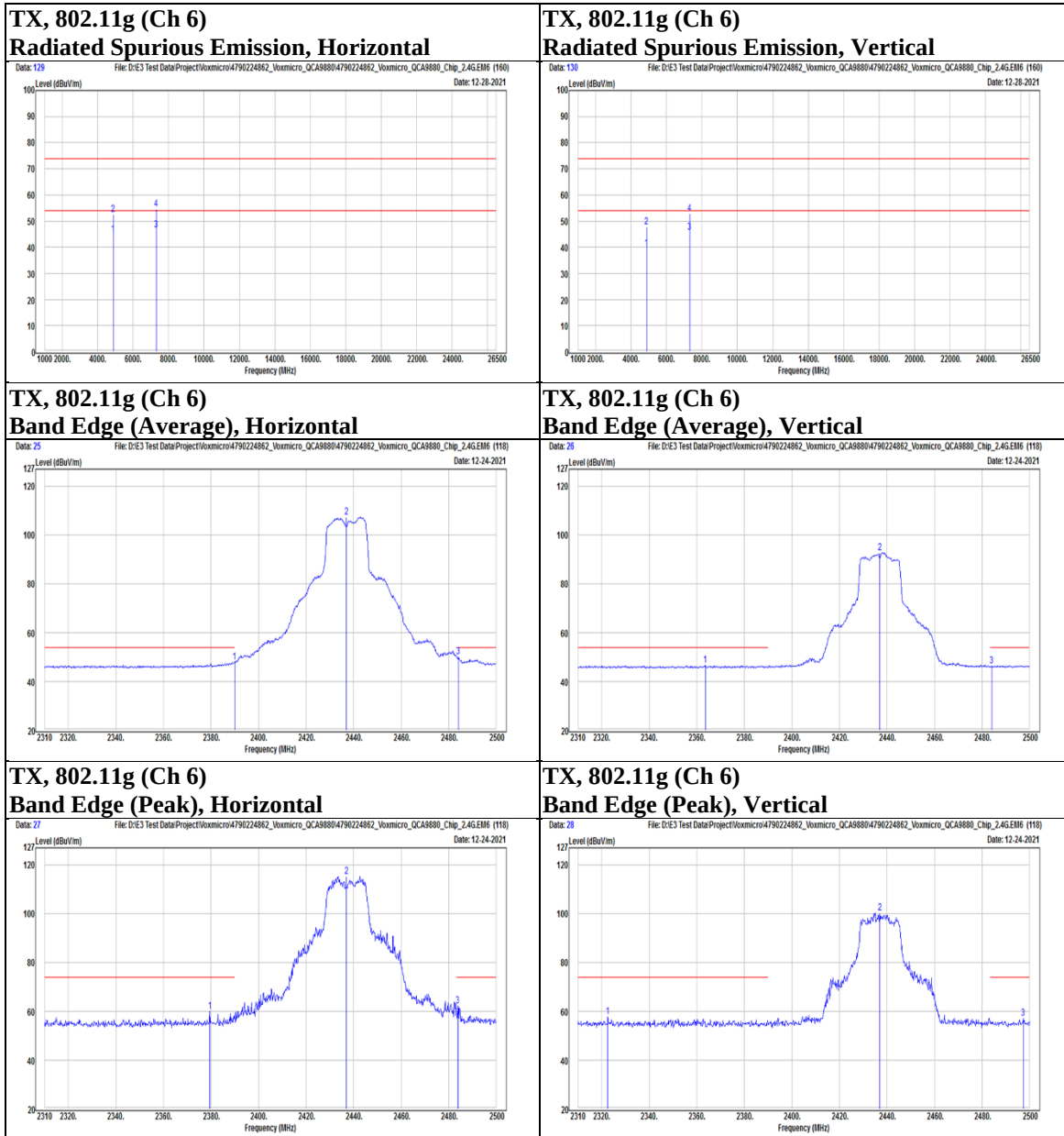
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Mode	802.11g	Channel	10
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2457	94.81	16.12	110.93	N/A	N/A	PK
	@	2457	86.68	16.12	102.8	N/A	N/A	AVG
		2484.04	44.15	16.1	60.25	74	-13.75	PK
		2484.61	31.75	16.1	47.85	54	-6.15	AVG
	*	4914	47.38	2.63	50.01	74	-23.99	PK
Vertical	@	2457	79.52	16.12	95.64	N/A	N/A	PK
	@	2457	71.72	16.12	87.84	N/A	N/A	AVG
		2491.26	40.8	16.1	56.9	74	-17.1	PK
		2493.16	30.52	16.1	46.62	54	-7.38	AVG
	*	4914	38.32	2.63	40.95	74	-33.05	PK

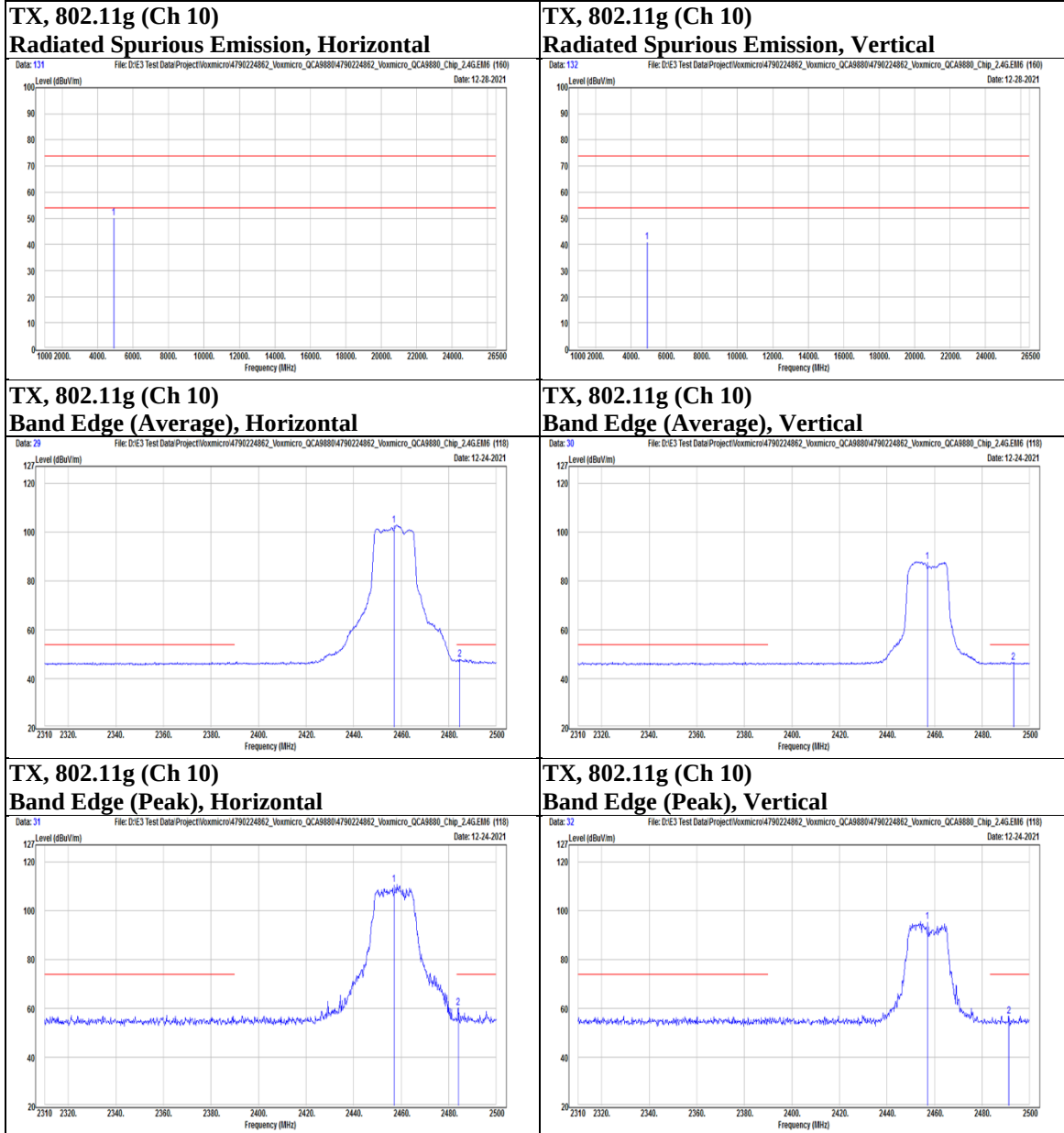
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Mode	802.11g	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	93.29	16.12	109.41	N/A	N/A	PK
	@	2462	85.22	16.12	101.34	N/A	N/A	AVG
		2483.85	32.29	16.1	48.39	54	-5.61	AVG
		2485.75	41.81	16.1	57.91	74	-16.09	PK
	*	4924	42.72	2.61	45.33	74	-28.67	PK
Vertical	@	2462	76.68	16.12	92.8	N/A	N/A	PK
	@	2462	70.81	16.12	86.93	N/A	N/A	AVG
		2490.69	30.66	16.1	46.76	54	-7.24	AVG
		2496.2	40.56	16.1	56.66	74	-17.34	PK
	*	4924	37.96	2.61	40.57	74	-33.43	PK

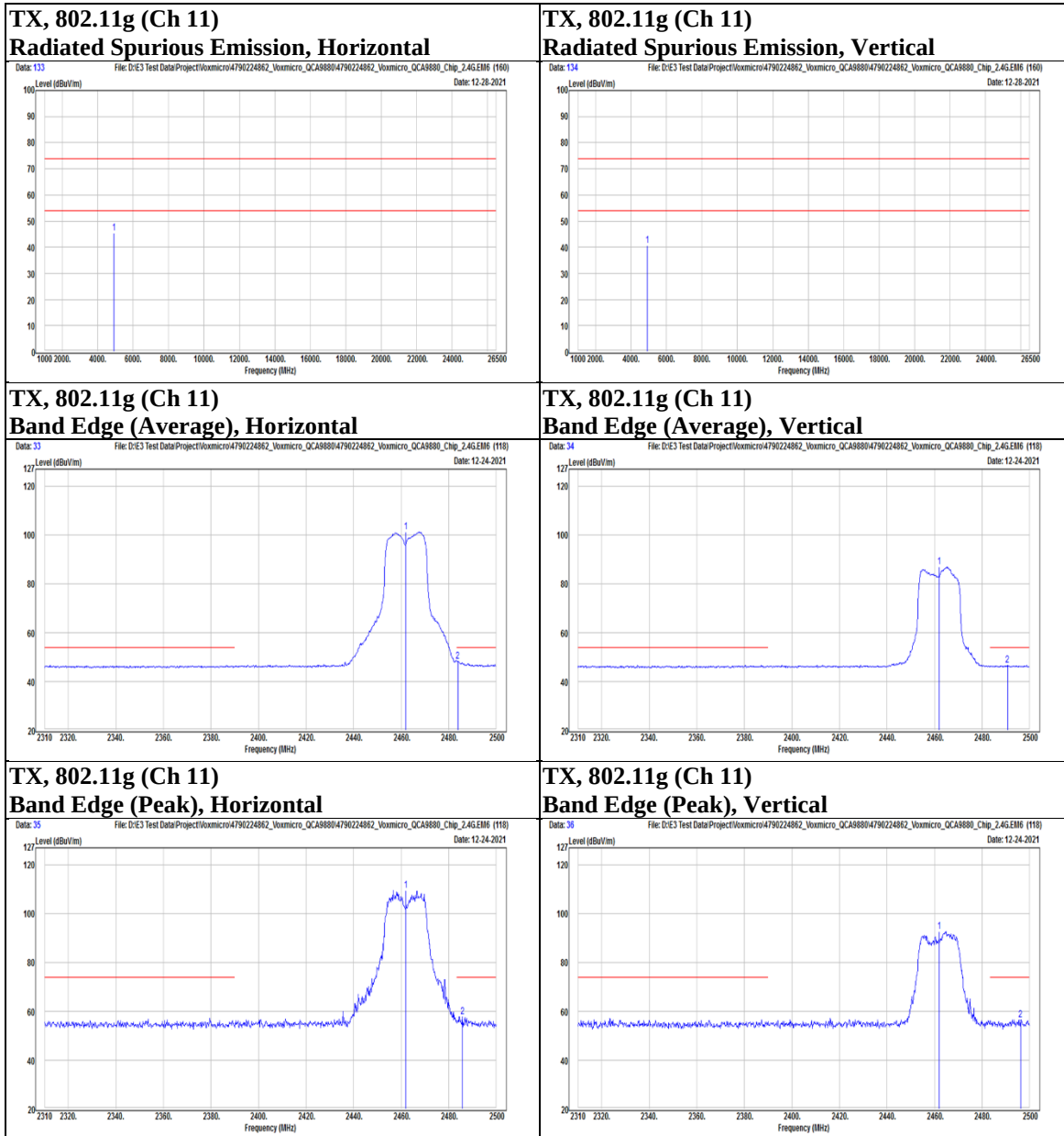
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Mode	TurboQAM (VHT20)	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.61	45.3	16.1	61.4	74	-12.6	PK
		2389.99	36.06	16.1	52.16	54	-1.84	AVG
	@	2412	91.79	16.13	107.92	N/A	N/A	PK
	@	2412	83.52	16.13	99.65	N/A	N/A	AVG
	*	4824	41.48	2.55	44.03	74	-29.97	PK
Vertical		2343.82	41.11	16.06	57.17	74	-16.83	PK
		2389.99	30.66	16.1	46.76	54	-7.24	AVG
	@	2412	75.83	16.13	91.96	N/A	N/A	PK
	@	2412	70.68	16.13	86.81	N/A	N/A	AVG
	*	4824	41.42	2.55	43.97	74	-30.03	PK

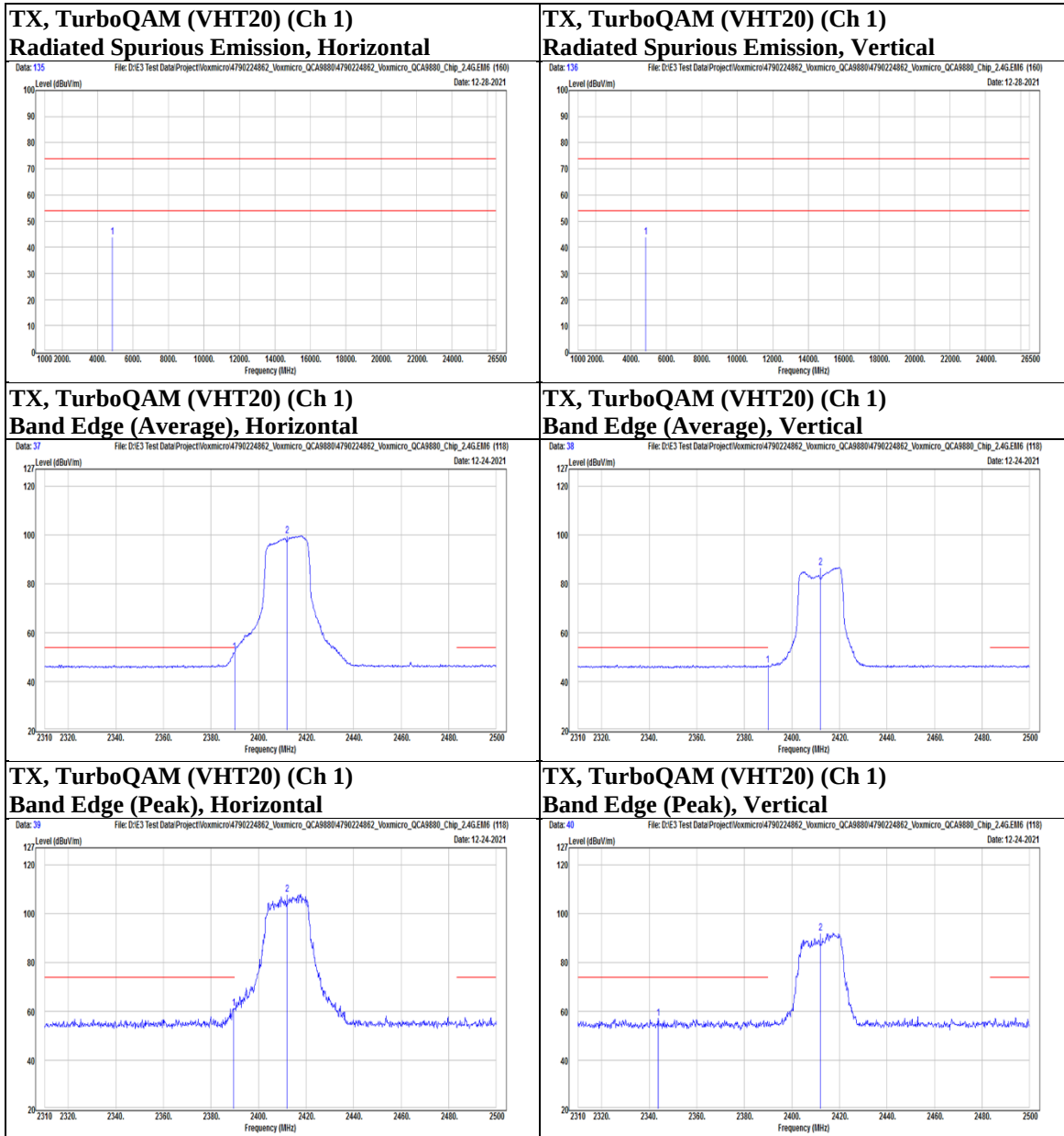
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Mode	TurboQAM (VHT20)	Channel	2
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2389.23	45.45	16.1	61.55	74	-12.45	PK
		2389.23	34.22	16.1	50.32	54	-3.68	AVG
	@	2417	93.43	16.13	109.56	N/A	N/A	PK
	@	2417	85.03	16.13	101.16	N/A	N/A	AVG
	*	4834	45.52	2.61	48.13	74	-25.87	PK
Vertical		2337.74	30.77	16.08	46.85	54	-7.15	AVG
		2384.29	41.32	16.09	57.41	74	-16.59	PK
	@	2417	79.02	16.13	95.15	N/A	N/A	PK
	@	2417	73.9	16.13	90.03	N/A	N/A	AVG
	*	4834	40.41	2.61	43.02	74	-30.98	PK

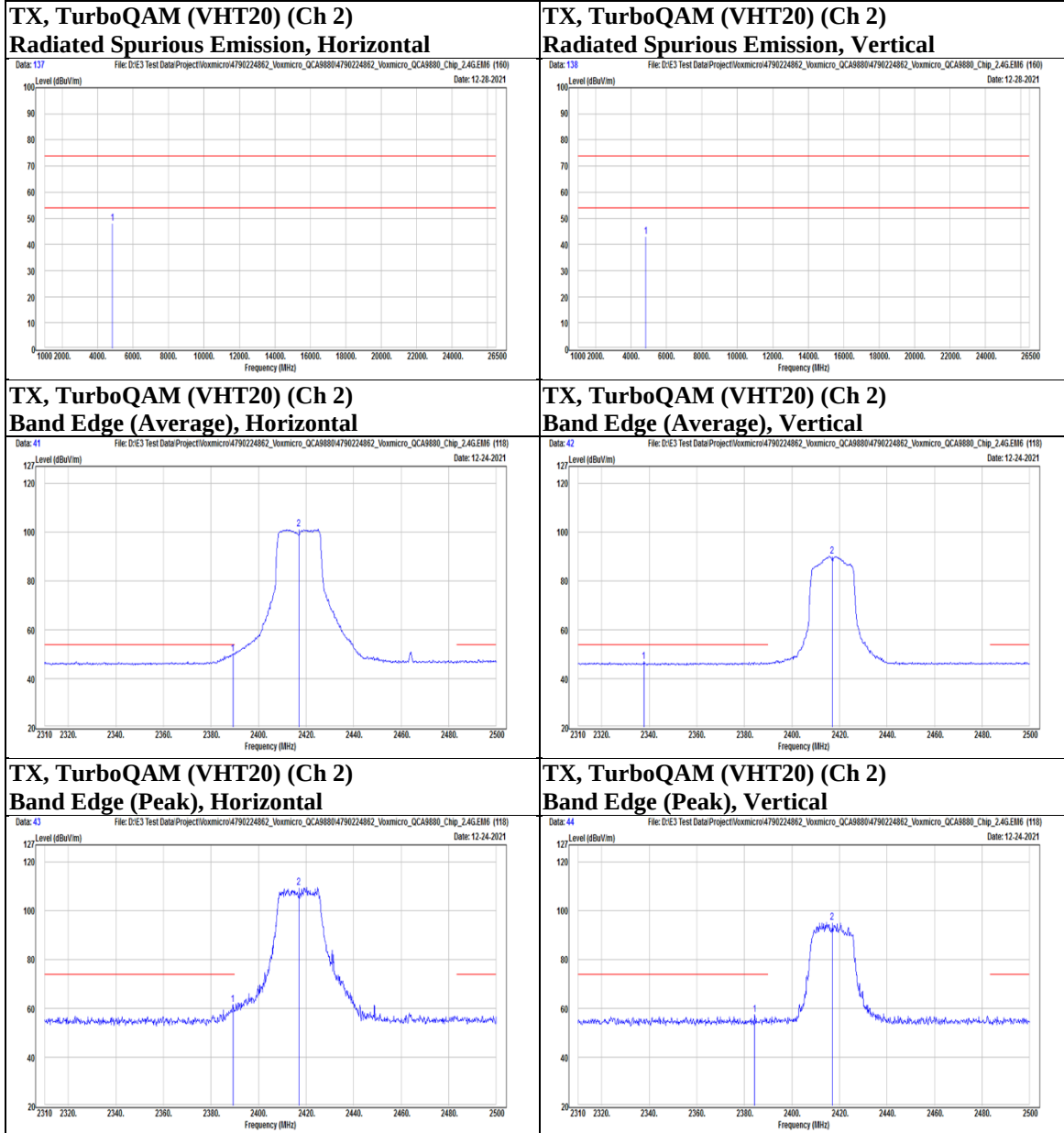
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Mode	TurboQAM (VHT20)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2382.77	46.48	16.09	62.57	74	-11.43	PK
		2389.99	34.18	16.1	50.28	54	-3.72	AVG
	@	2437	98.93	16.12	115.05	N/A	N/A	PK
	@	2437	90.16	16.12	106.28	N/A	N/A	AVG
		2484.61	33.9	16.1	50	54	-4	AVG
		2484.99	44.32	16.1	60.42	74	-13.58	PK
		4874	50.42	2.66	53.08	74	-20.92	PK
		4874	44.29	2.66	46.95	54	-7.05	AVG
		7311	44.11	10.62	54.73	74	-19.27	PK
		7311	37.71	10.62	48.33	54	-5.67	AVG
Vertical		2316.65	30.63	16.17	46.8	54	-7.2	AVG
		2344.39	41.85	16.05	57.9	74	-16.1	PK
	@	2437	82.99	16.12	99.11	N/A	N/A	PK
	@	2437	76.92	16.12	93.04	N/A	N/A	AVG
		2491.07	30.69	16.1	46.79	54	-7.21	AVG
		2495.63	41.04	16.1	57.14	74	-16.86	PK
		4874	45.65	2.66	48.31	74	-25.69	PK
		4874	37.13	2.66	39.79	54	-14.21	AVG
		7311	41.78	10.62	52.4	74	-21.6	PK
		7311	35.7	10.62	46.32	54	-7.68	AVG

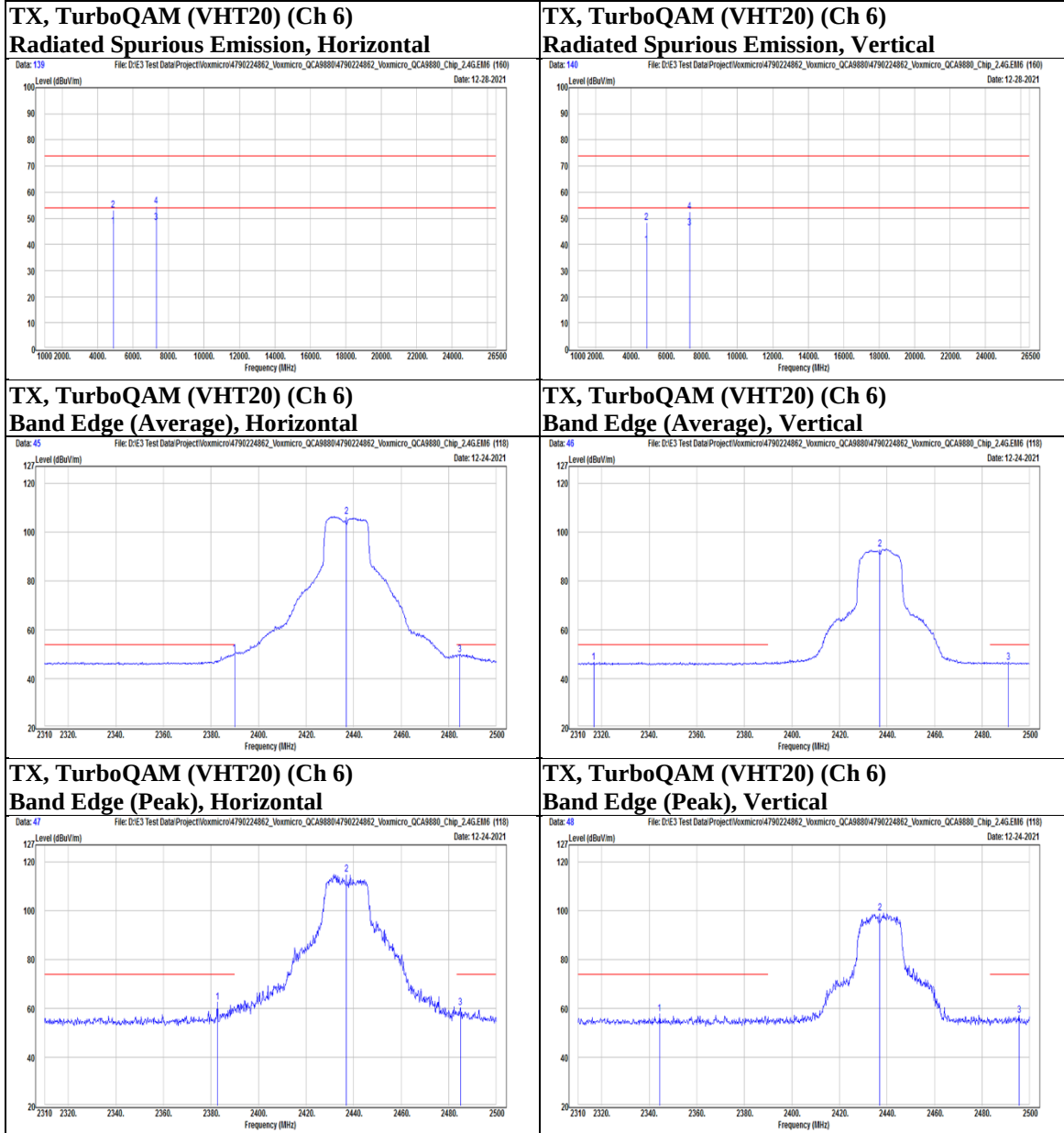
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Mode	TurboQAM (VHT20)	Channel	10
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2457	93.55	16.12	109.67	N/A	N/A	PK
	@	2457	87.12	16.12	103.24	N/A	N/A	AVG
		2483.85	33.4	16.1	49.5	54	-4.5	AVG
		2488.41	40.18	16.1	56.28	74	-17.72	PK
	*	4914	46.14	2.63	48.77	74	-25.23	PK
Vertical	@	2457	80.19	16.12	96.31	N/A	N/A	PK
	@	2457	72.2	16.12	88.32	N/A	N/A	AVG
		2489.36	40.63	16.1	56.73	74	-17.27	PK
		2493.54	30.53	16.1	46.63	54	-7.37	AVG
	*	4914	40.02	2.63	42.65	74	-31.35	PK

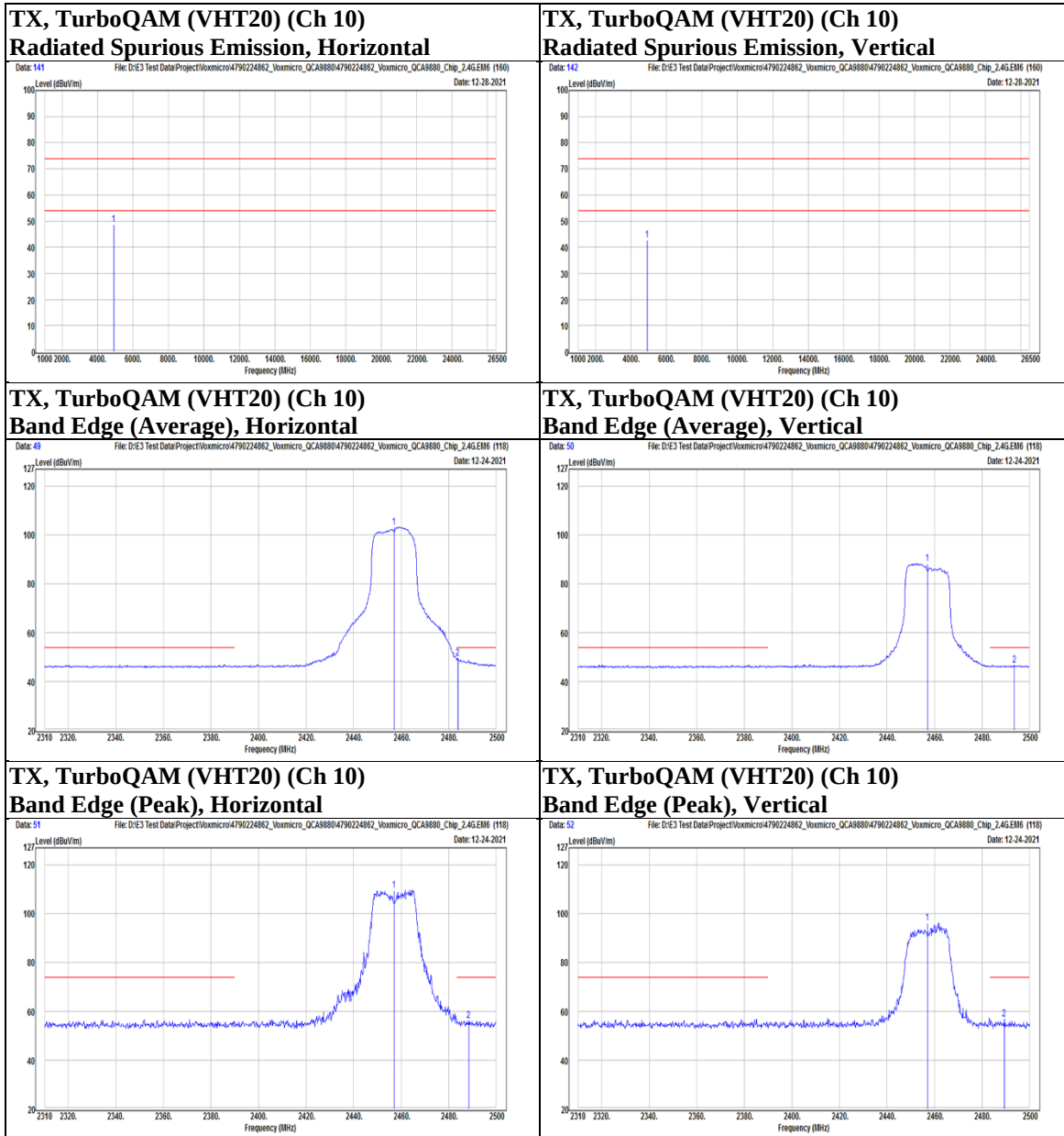
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Mode	TurboQAM (VHT20)	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	91.41	16.12	107.53	N/A	N/A	PK
	@	2462	82.69	16.12	98.81	N/A	N/A	AVG
		2483.66	32.96	16.1	49.06	54	-4.94	AVG
		2484.42	41.67	16.1	57.77	74	-16.23	PK
	*	4924	41.84	2.61	44.45	74	-29.55	PK
Vertical	@	2462	76.05	16.12	92.17	N/A	N/A	PK
	@	2462	69.01	16.12	85.13	N/A	N/A	AVG
		2488.6	40.52	16.1	56.62	74	-17.38	PK
		2498.1	30.47	16.1	46.57	54	-7.43	AVG
	*	4924	37.87	2.61	40.48	74	-33.52	PK

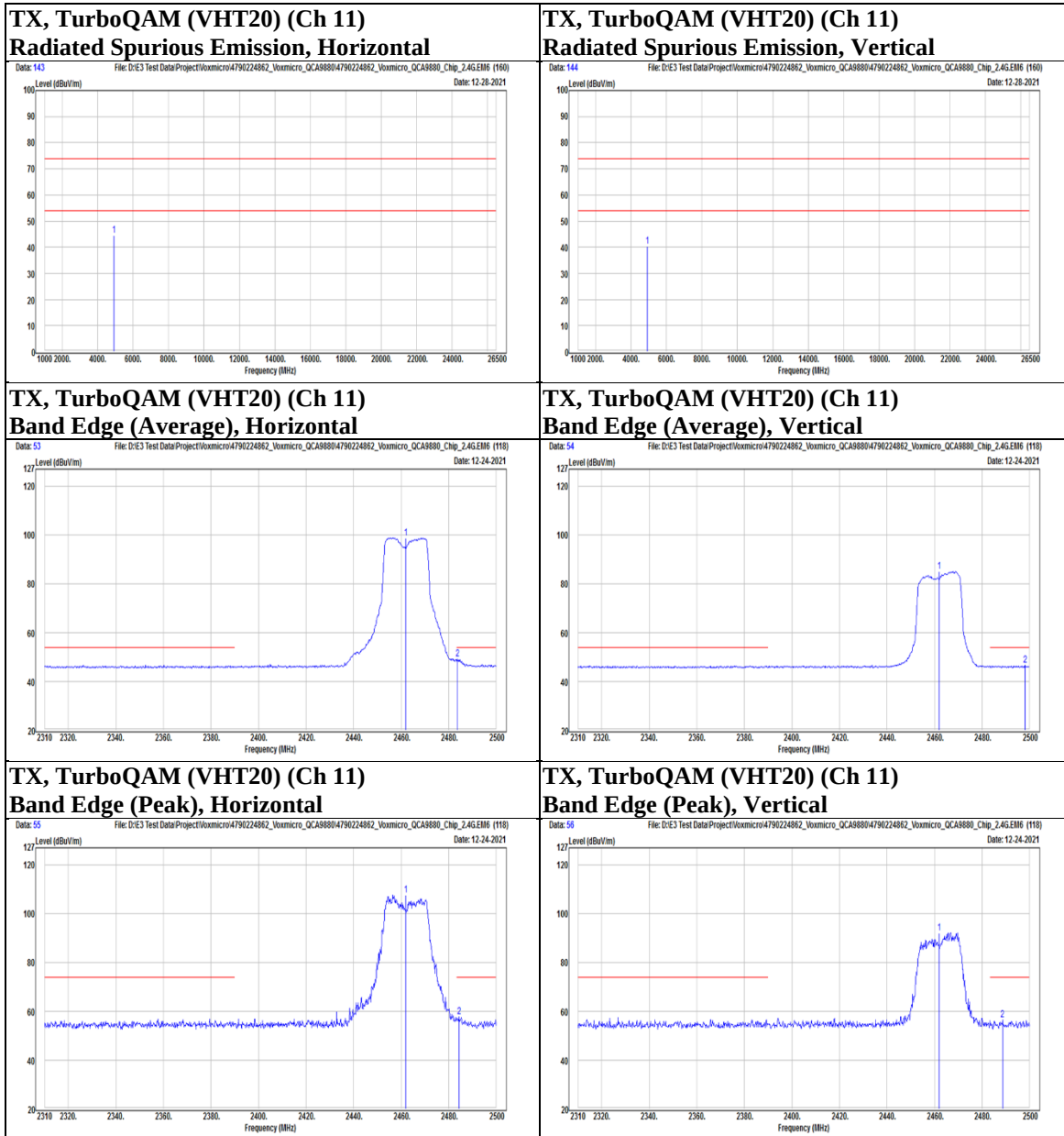
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Mode	TurboQAM (VHT40)	Channel	3
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.61	43.66	16.1	59.76	74	-14.24	PK
		2389.99	33.7	16.1	49.8	54	-4.2	AVG
	@	2422	86.47	16.13	102.6	N/A	N/A	PK
	@	2422	77.87	16.13	94	N/A	N/A	AVG
	*	4844	37.07	2.66	39.73	74	-34.27	PK
Vertical		2312.47	30.45	16.19	46.64	54	-7.36	AVG
		2320.64	40.82	16.16	56.98	74	-17.02	PK
	@	2422	71.86	16.13	87.99	N/A	N/A	PK
	@	2422	65.81	16.13	81.94	N/A	N/A	AVG
	*	4844	41.67	2.66	44.33	74	-29.67	PK

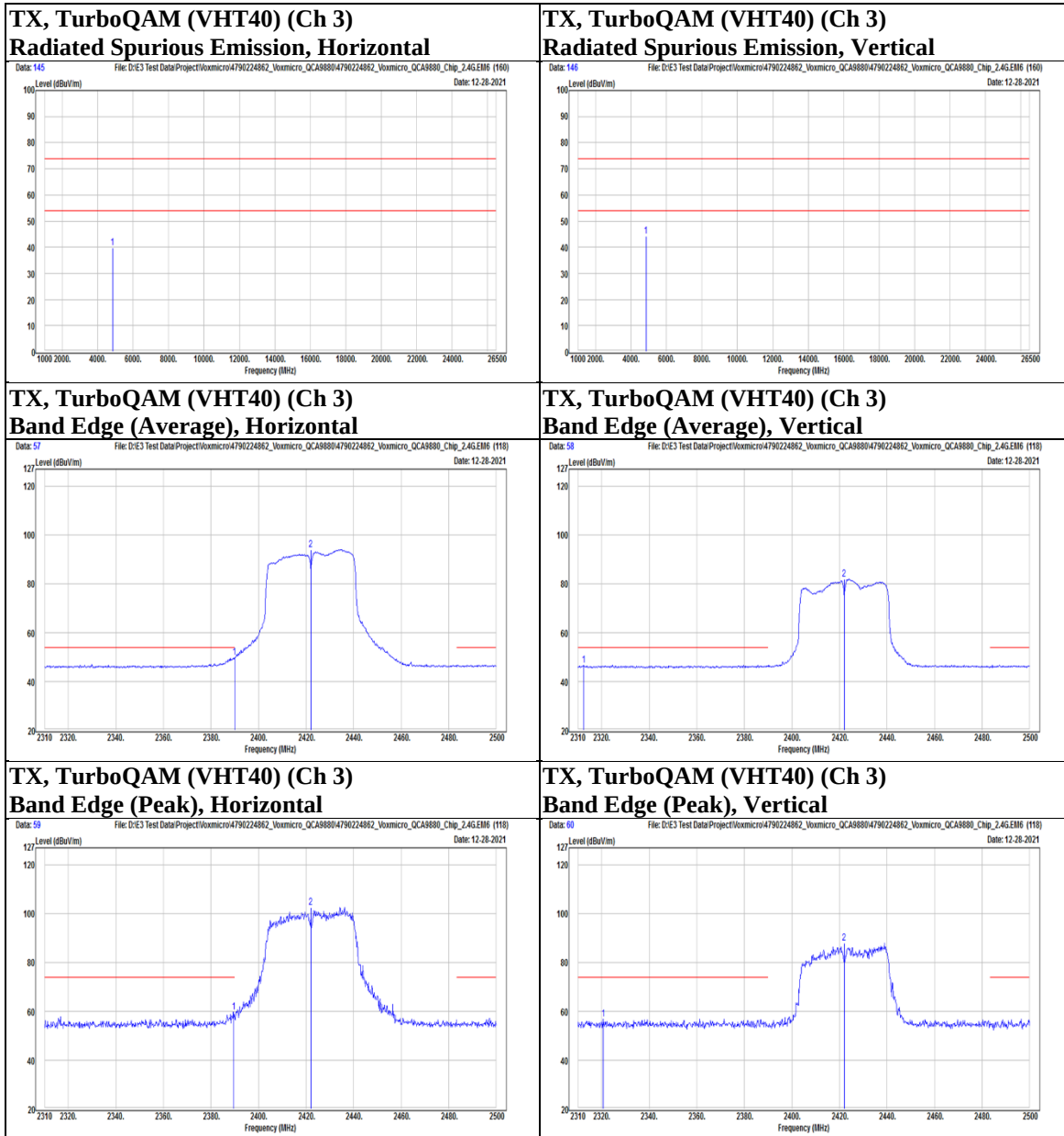
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Mode	TurboQAM (VHT40)	Channel	4
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2387.9	43.08	16.1	59.18	74	-14.82	PK
		2389.23	34.04	16.1	50.14	54	-3.86	AVG
	@	2427	87.54	16.12	103.66	N/A	N/A	PK
	@	2427	78.54	16.12	94.66	N/A	N/A	AVG
	*	4854	38.01	2.68	40.69	74	-33.31	PK
Vertical		2313.04	30.53	16.18	46.71	54	-7.29	AVG
		2363.39	41.12	16.06	57.18	74	-16.82	PK
	@	2427	71.58	16.12	87.7	N/A	N/A	PK
	@	2427	66.89	16.12	83.01	N/A	N/A	AVG
	*	4854	36.53	2.68	39.21	74	-34.79	PK

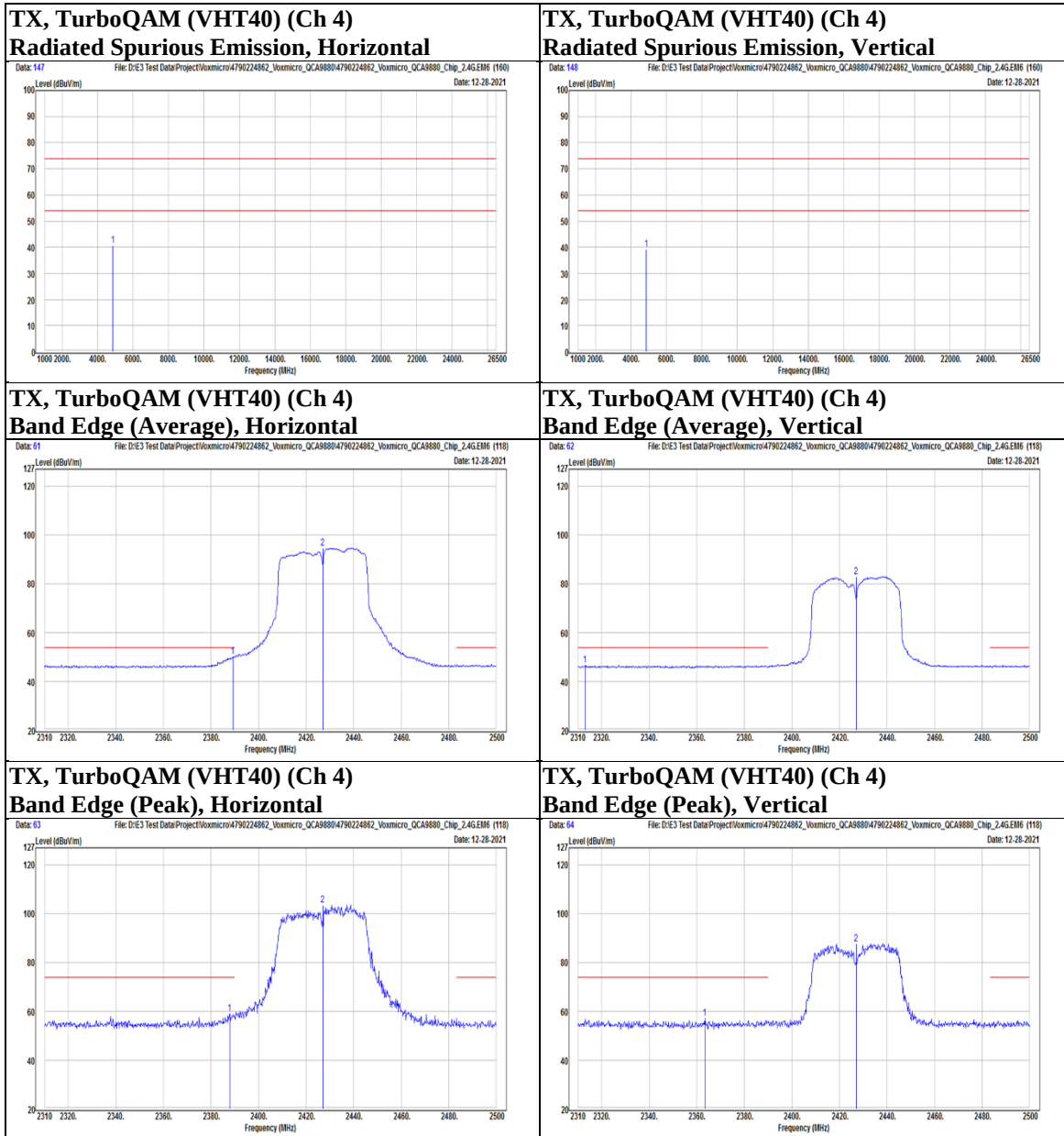
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Mode	TurboQAM (VHT40)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2389.61	43.25	16.1	59.35	74	-14.65	PK
		2389.8	33.09	16.1	49.19	54	-4.81	AVG
	@	2437	90.94	16.12	107.06	N/A	N/A	PK
	@	2437	82.35	16.12	98.47	N/A	N/A	AVG
		2484.04	42.62	16.1	58.72	74	-15.28	PK
		2484.23	32.71	16.1	48.81	54	-5.19	AVG
	*	4874	42.68	2.66	45.34	74	-28.66	PK
Vertical		2355.22	30.77	16.04	46.81	54	-7.19	AVG
		2355.6	41.02	16.04	57.06	74	-16.94	PK
	@	2437	77.32	16.12	93.44	N/A	N/A	PK
	@	2437	69.94	16.12	86.06	N/A	N/A	AVG
		2491.26	39.96	16.1	56.06	74	-17.94	PK
		2499.05	30.46	16.1	46.56	54	-7.44	AVG
	*	4874	37.05	2.66	39.71	74	-34.29	PK

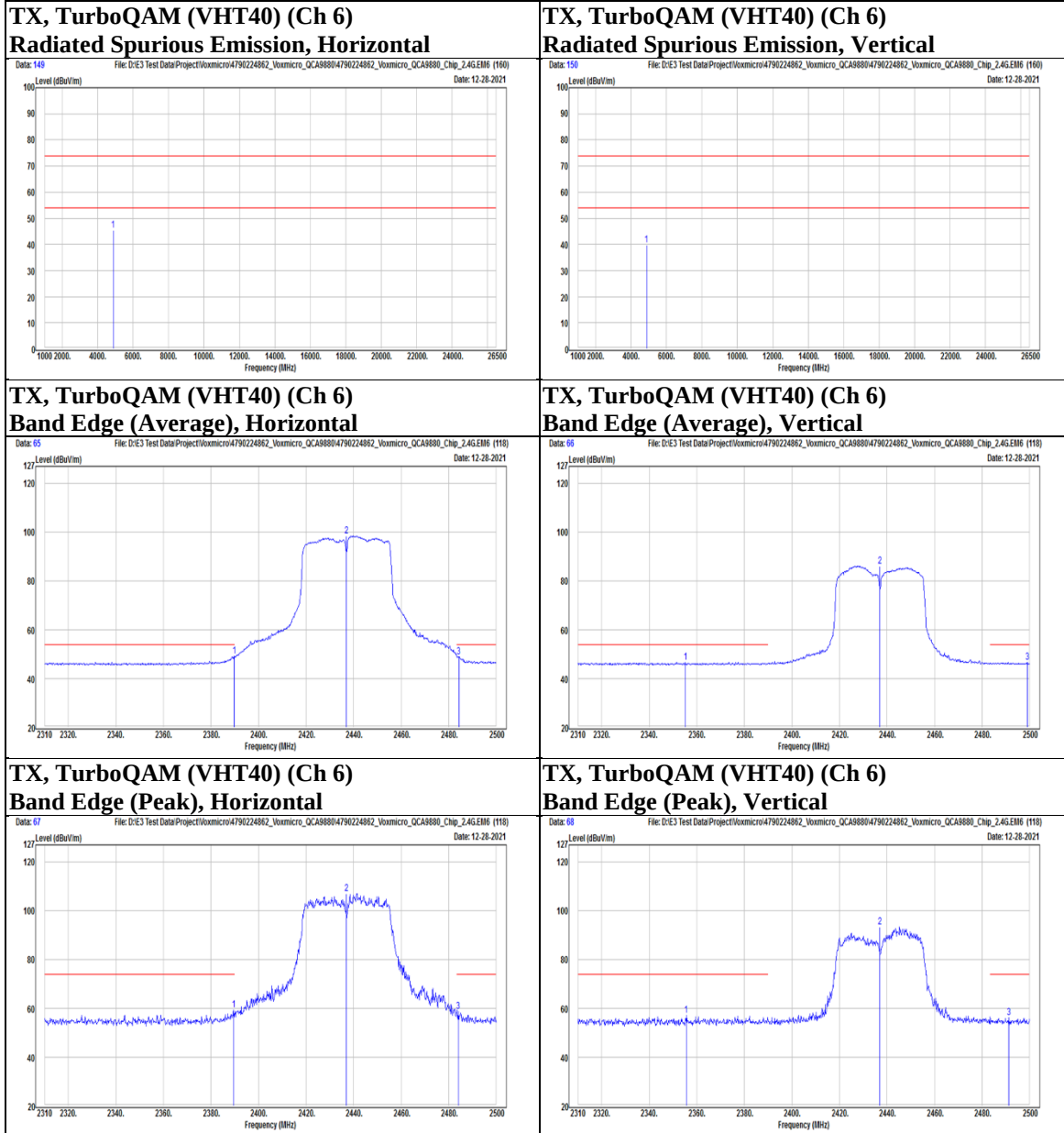
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Mode	TurboQAM (VHT40)	Channel	8
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2447	87.71	16.12	103.83	N/A	N/A	PK
	@	2447	79.39	16.12	95.51	N/A	N/A	AVG
		2484.42	33.07	16.1	49.17	54	-4.83	AVG
		2485.75	41.52	16.1	57.62	74	-16.38	PK
	*	4894	38.39	2.64	41.03	74	-32.97	PK
Vertical	@	2447	72.77	16.12	88.89	N/A	N/A	PK
	@	2447	65.79	16.12	81.91	N/A	N/A	AVG
		2488.22	40.08	16.1	56.18	74	-17.82	PK
		2500	30.36	16.1	46.46	54	-7.54	AVG
	*	4894	36.82	2.64	39.46	74	-34.54	PK

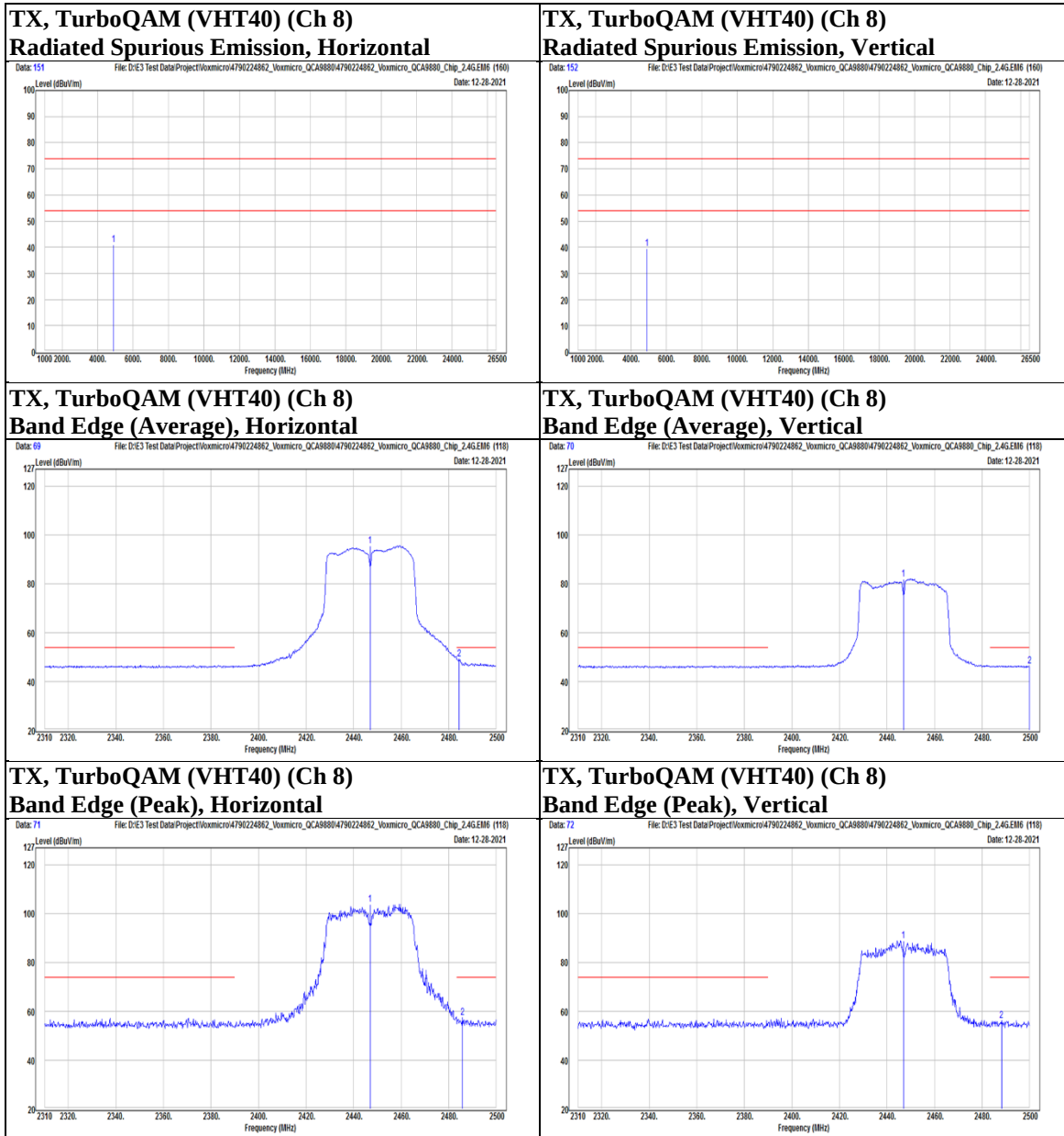
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Mode	TurboQAM (VHT40)	Channel	9
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	84.04	16.12	100.16	N/A	N/A	PK
	@	2452	76.1	16.12	92.22	N/A	N/A	AVG
		2483.66	32.99	16.1	49.09	54	-4.91	AVG
		2484.8	41.68	16.1	57.78	74	-16.22	PK
	*	4904	36.92	2.63	39.55	74	-34.45	PK
Vertical	@	2452	69.52	16.12	85.64	N/A	N/A	PK
	@	2452	62.79	16.12	78.91	N/A	N/A	AVG
		2489.55	30.53	16.1	46.63	54	-7.37	AVG
		2498.48	40.96	16.1	57.06	74	-16.94	PK
	*	4904	37.27	2.63	39.9	74	-34.1	PK

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