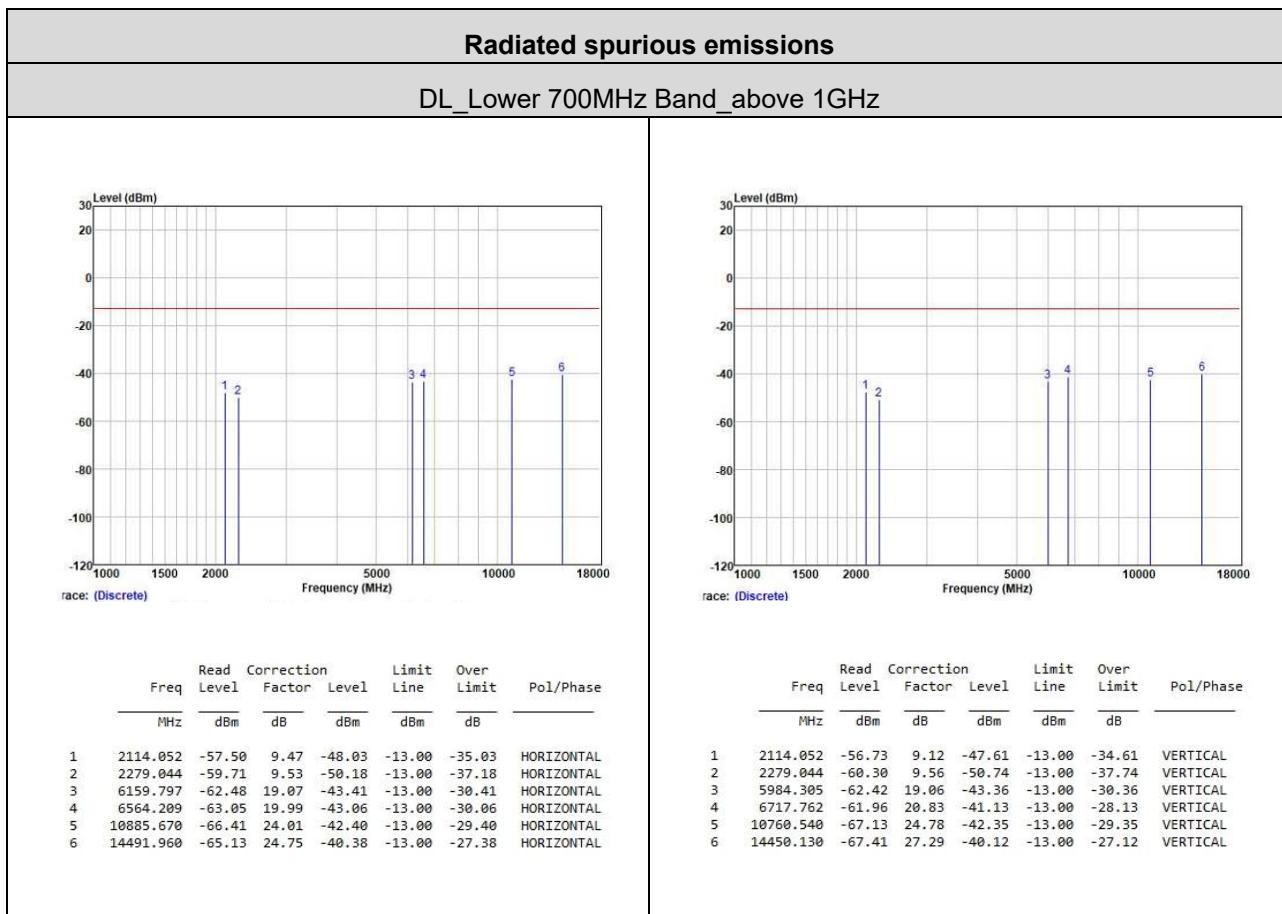


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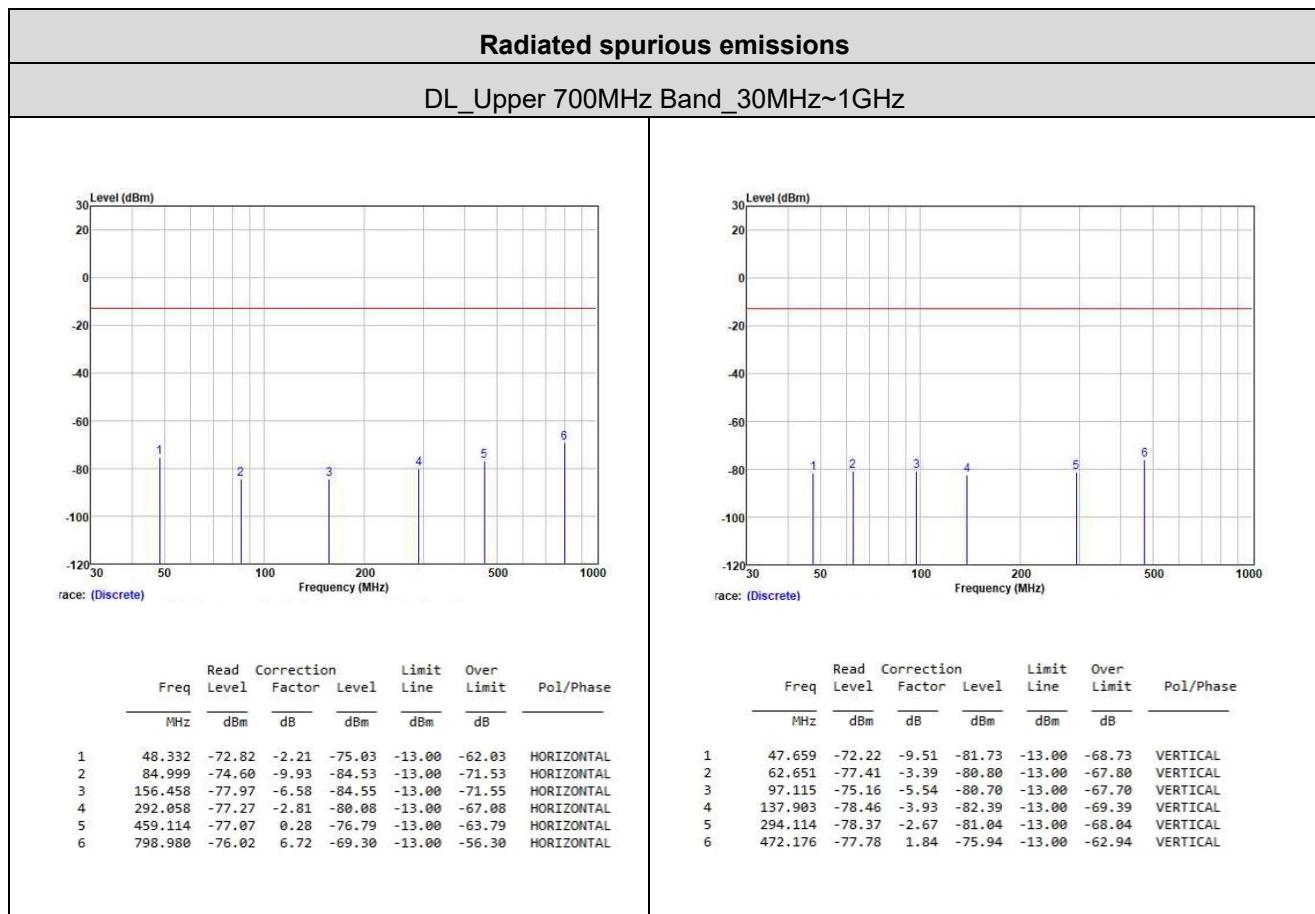


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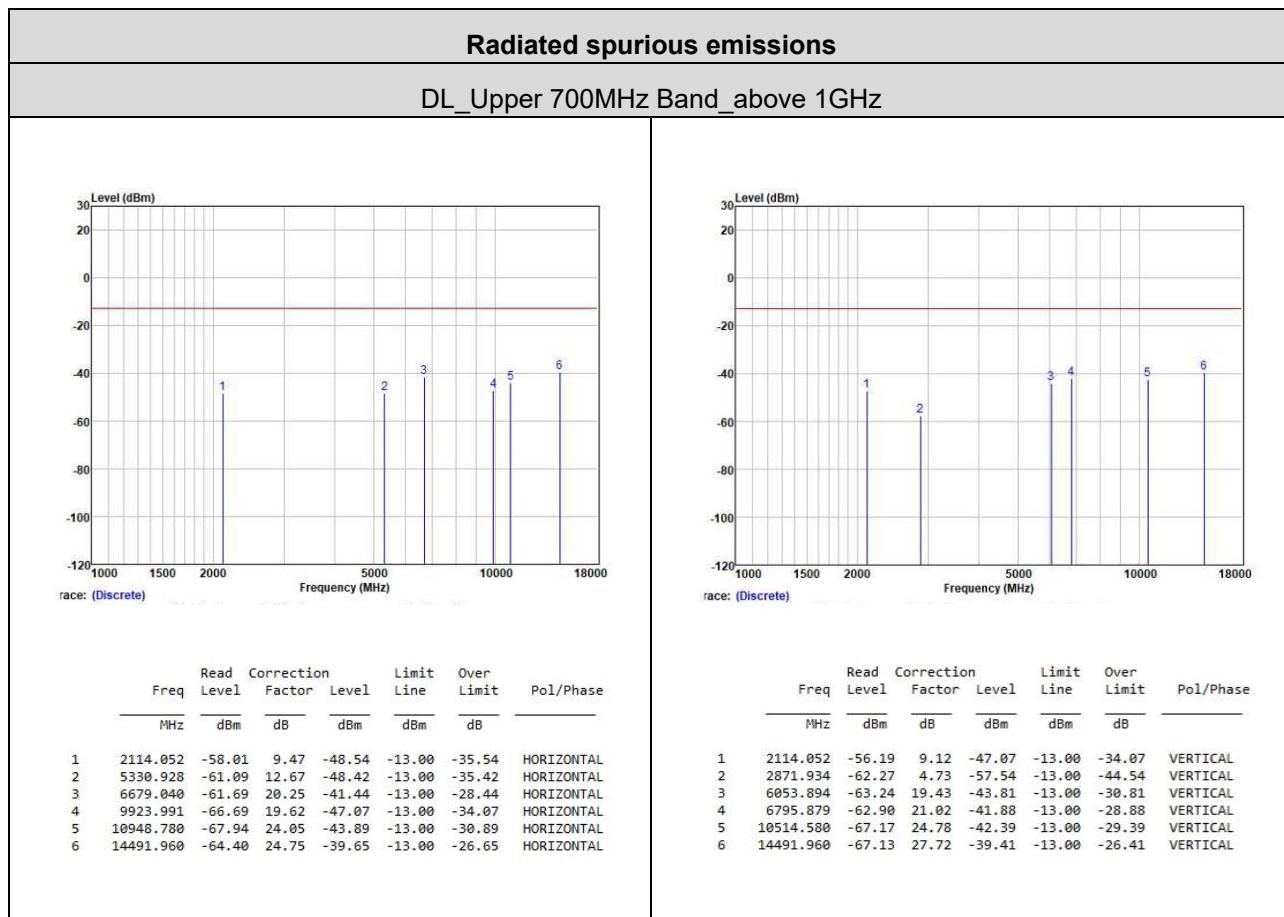


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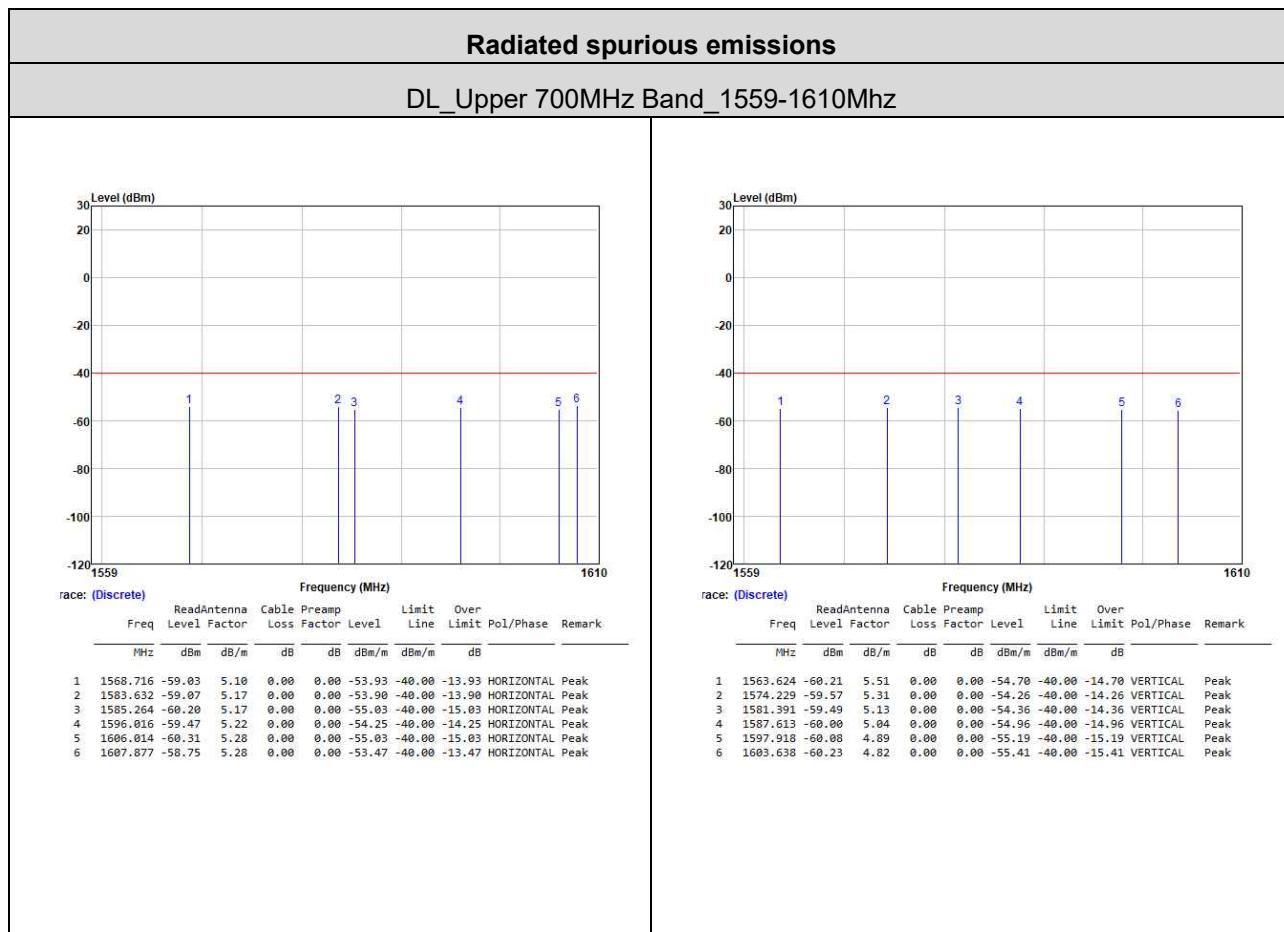


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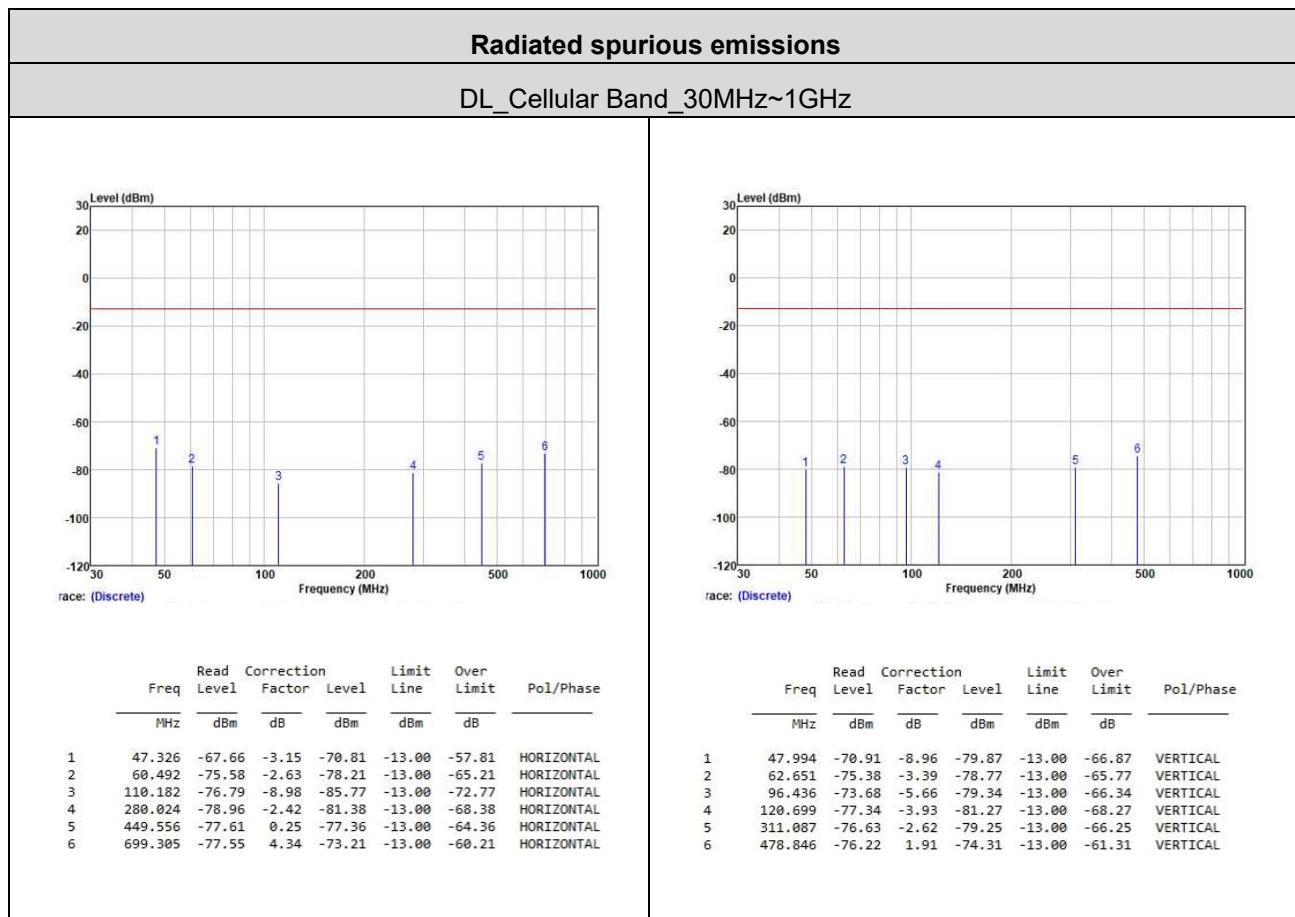


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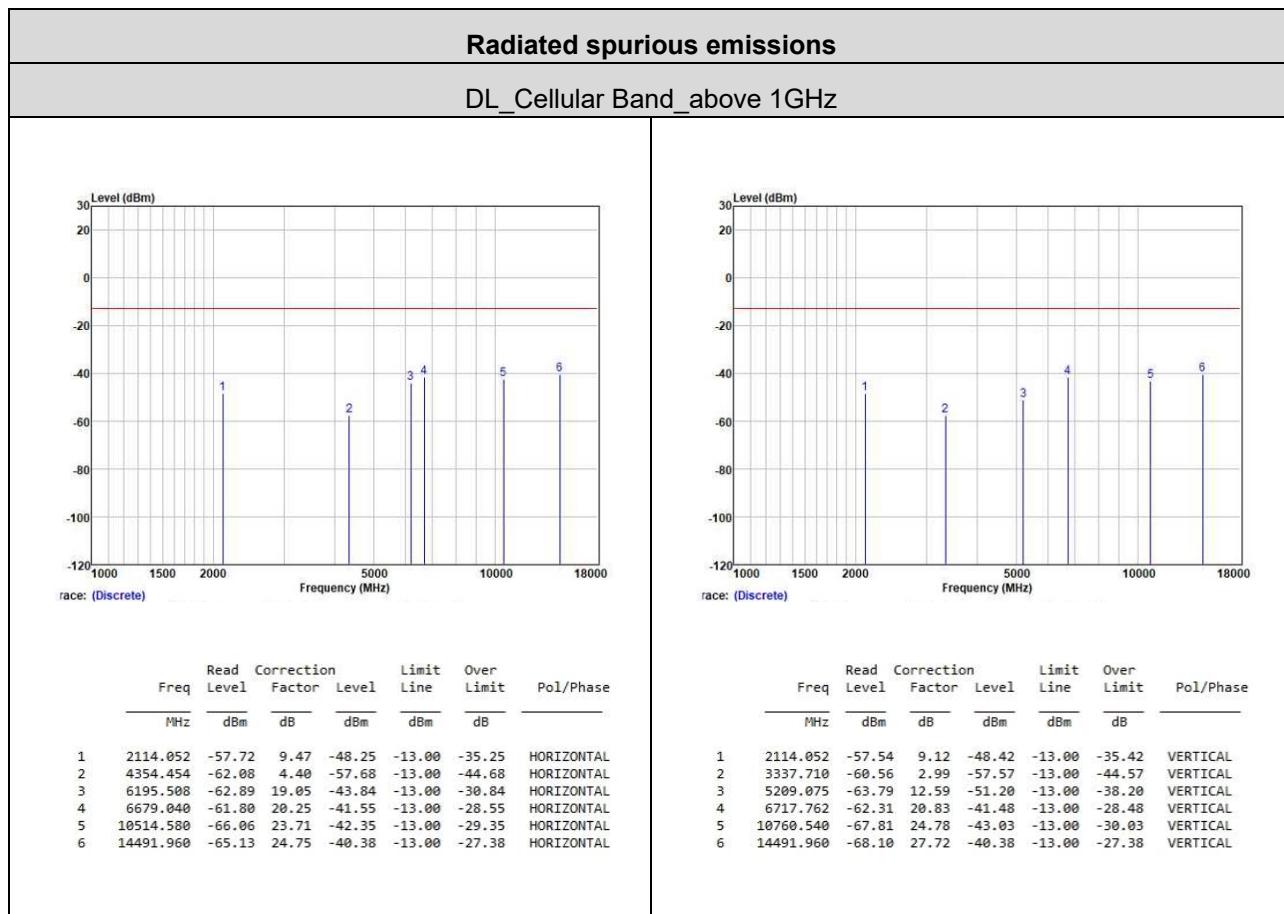


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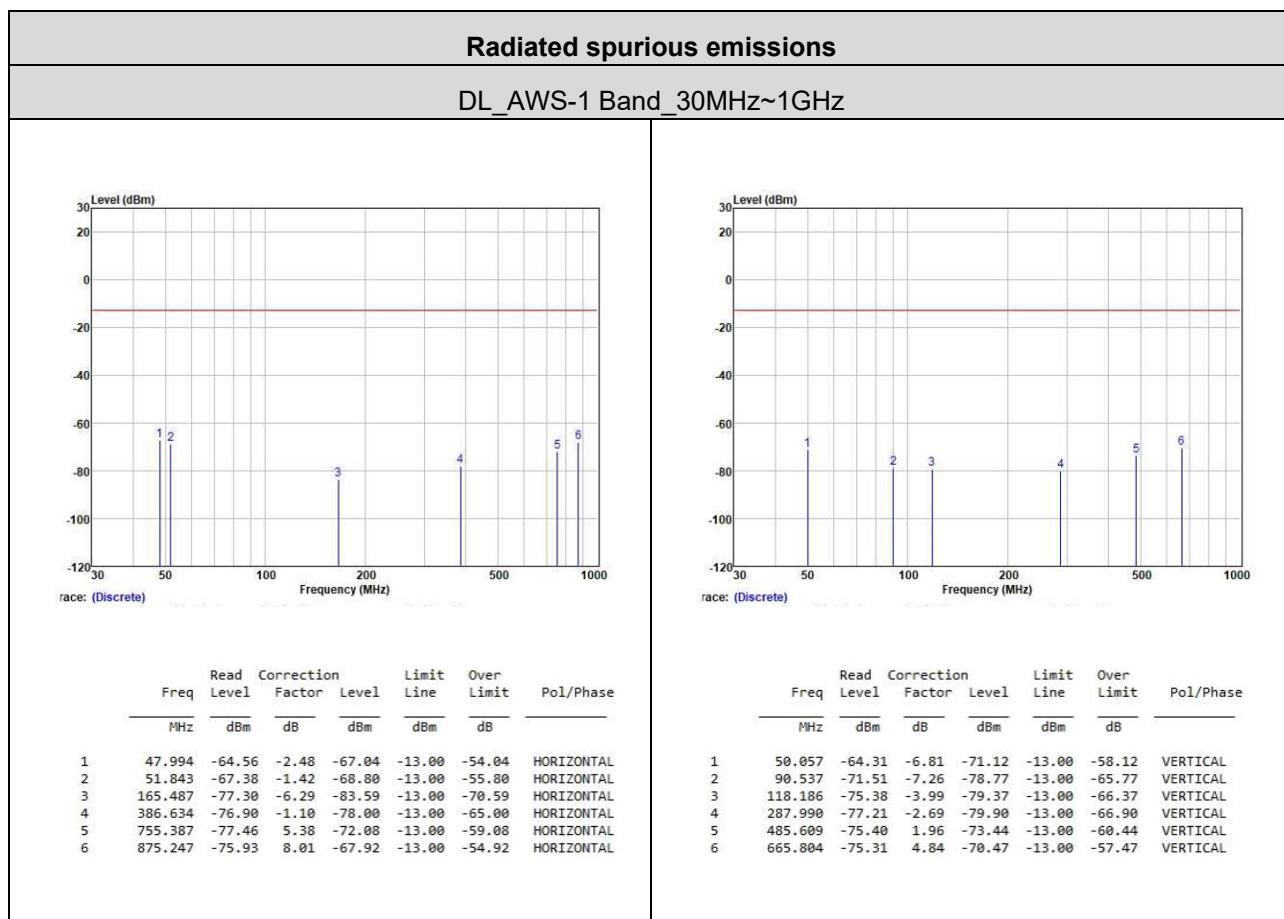


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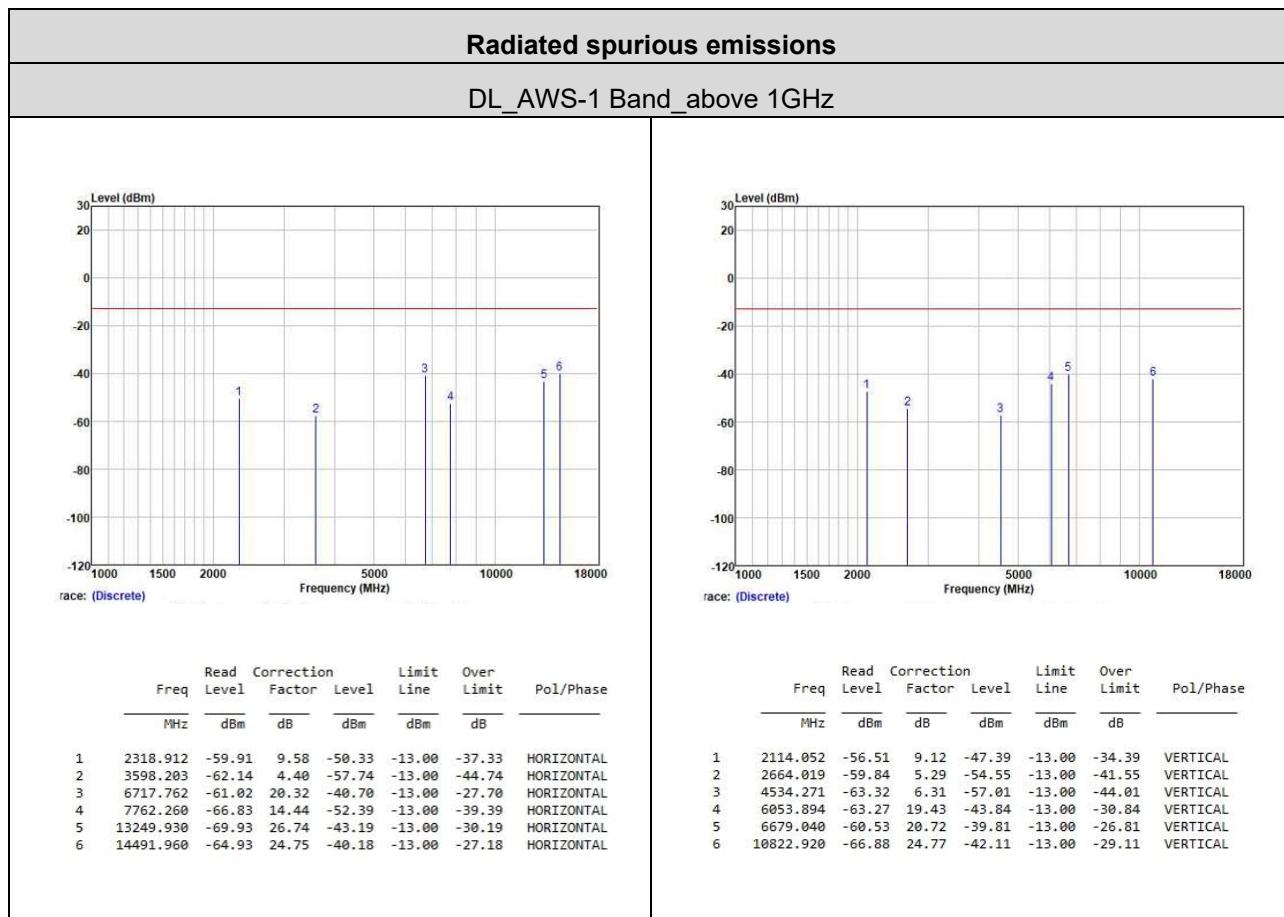


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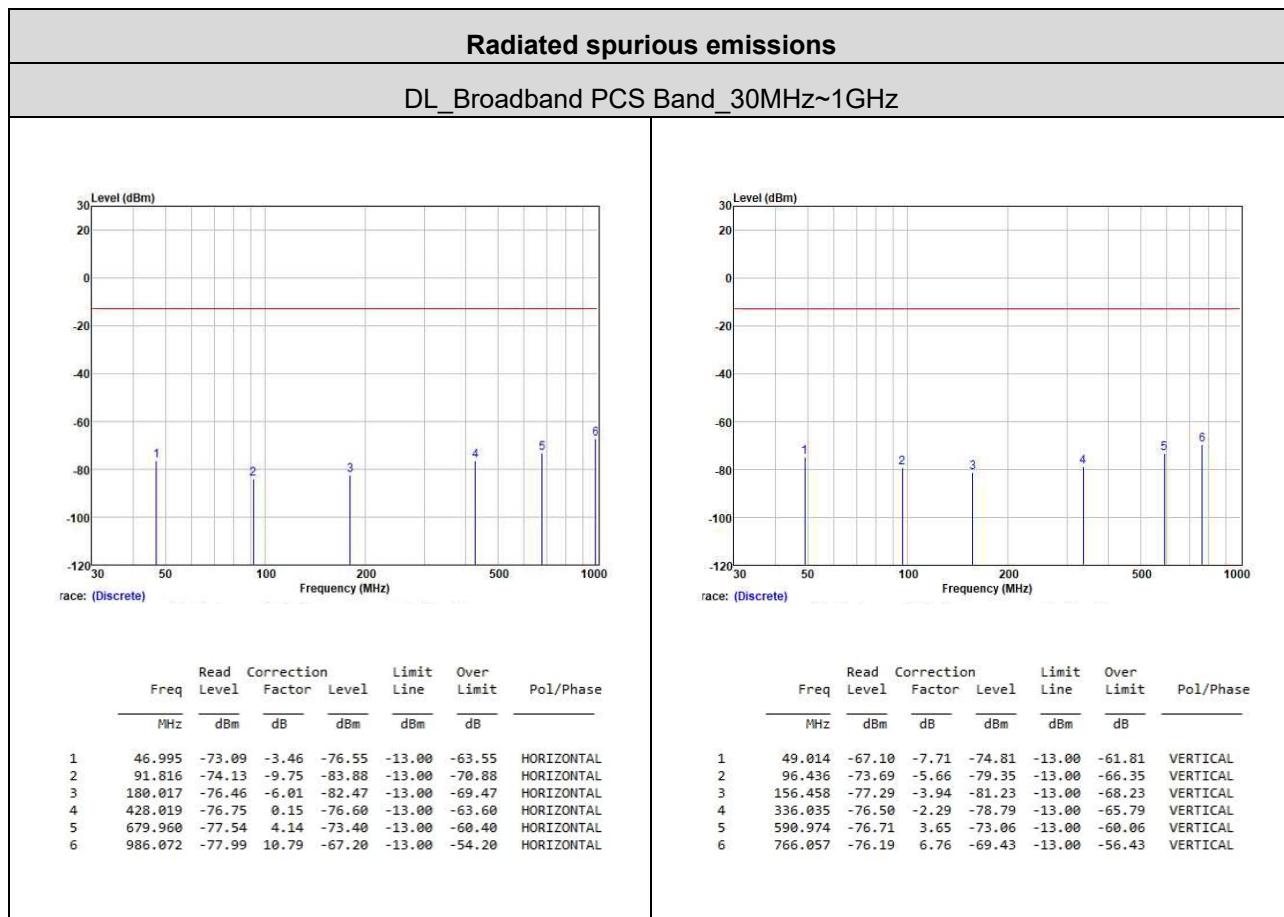


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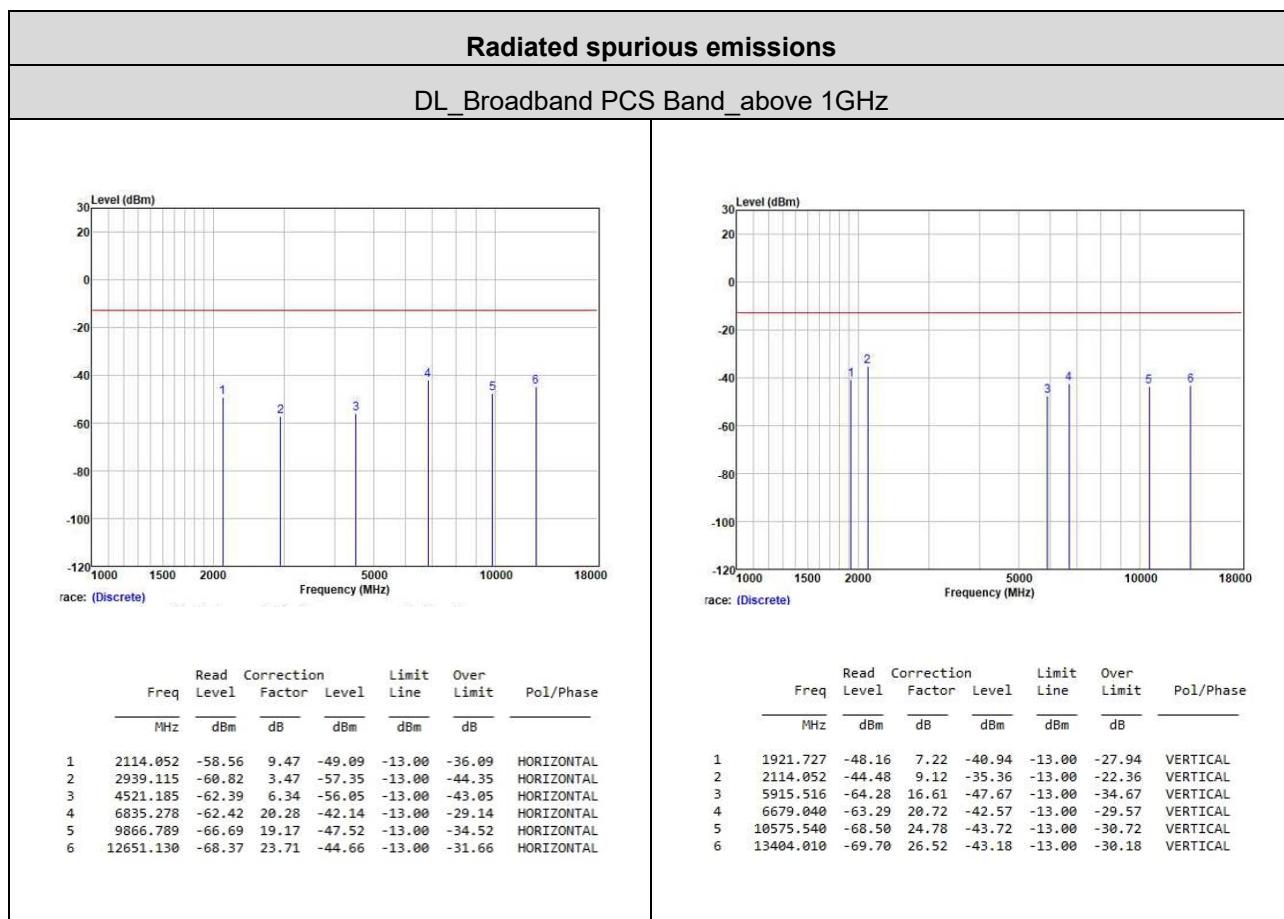


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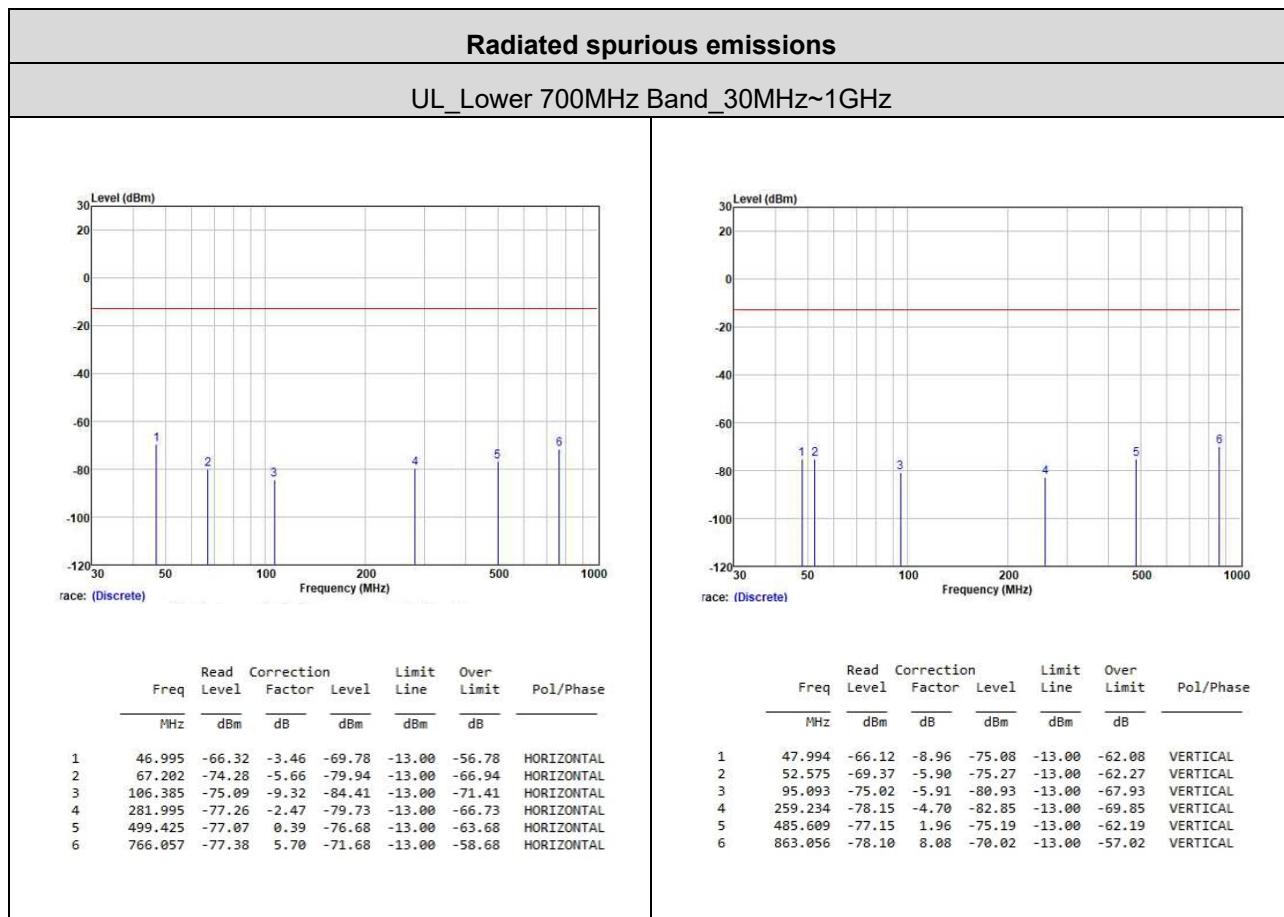


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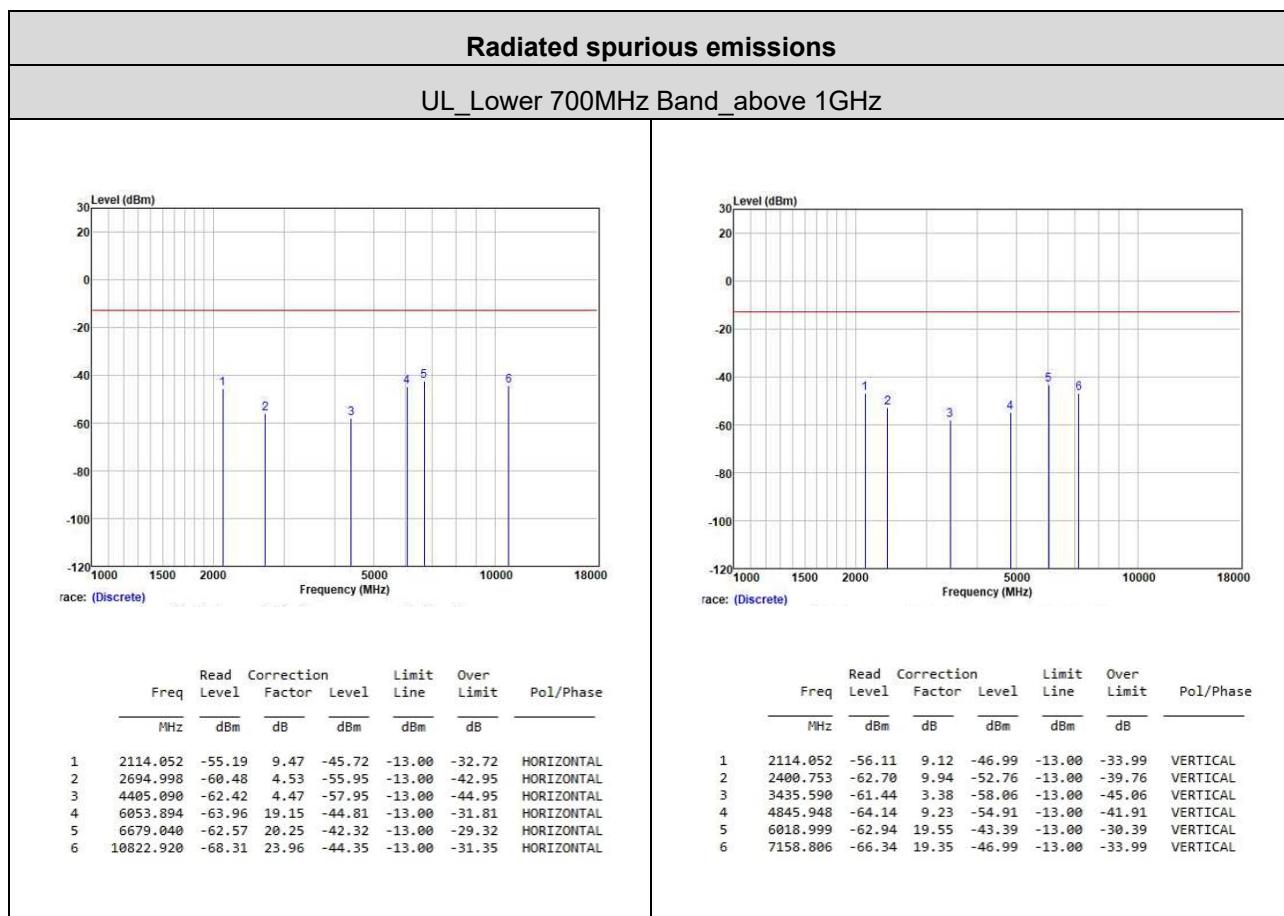


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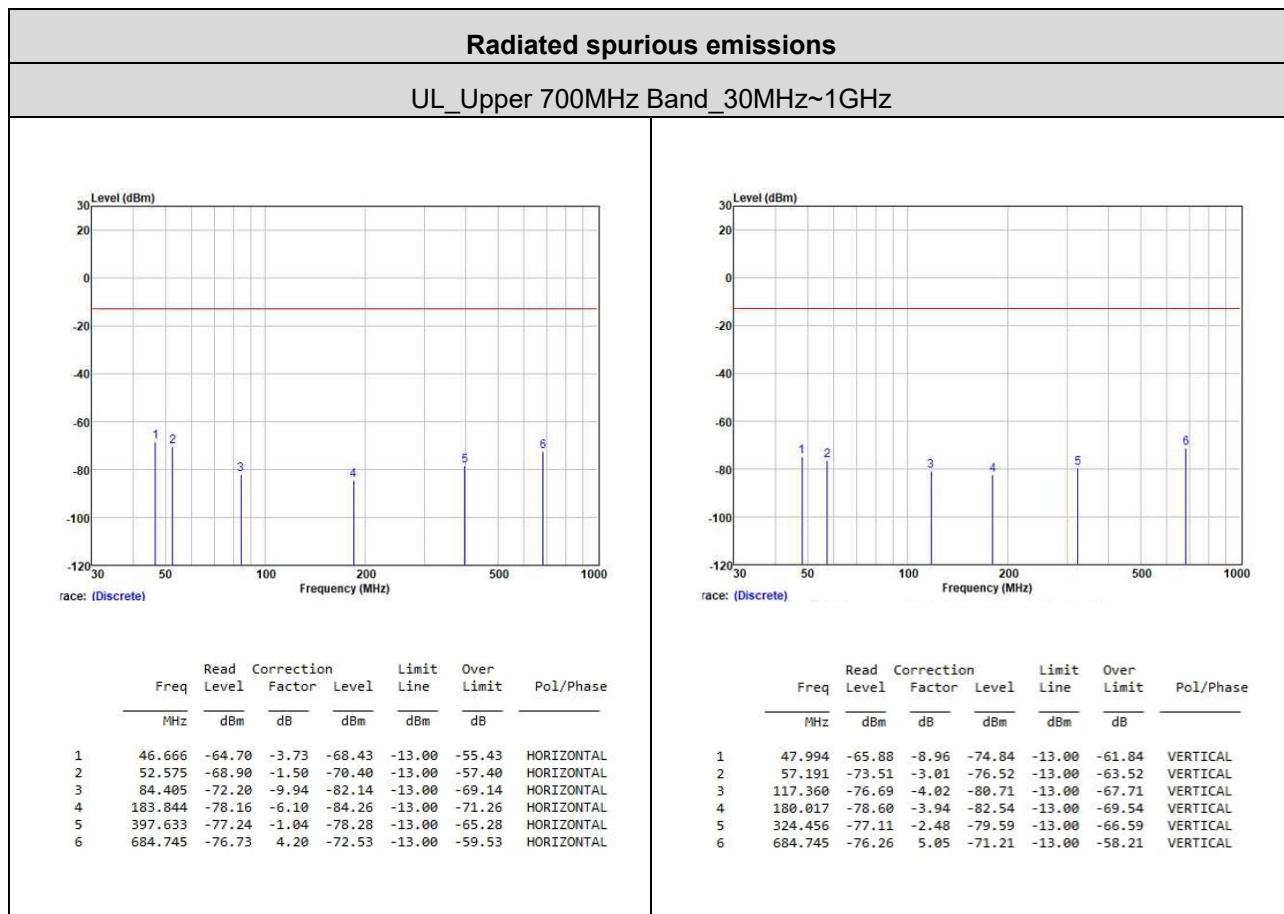
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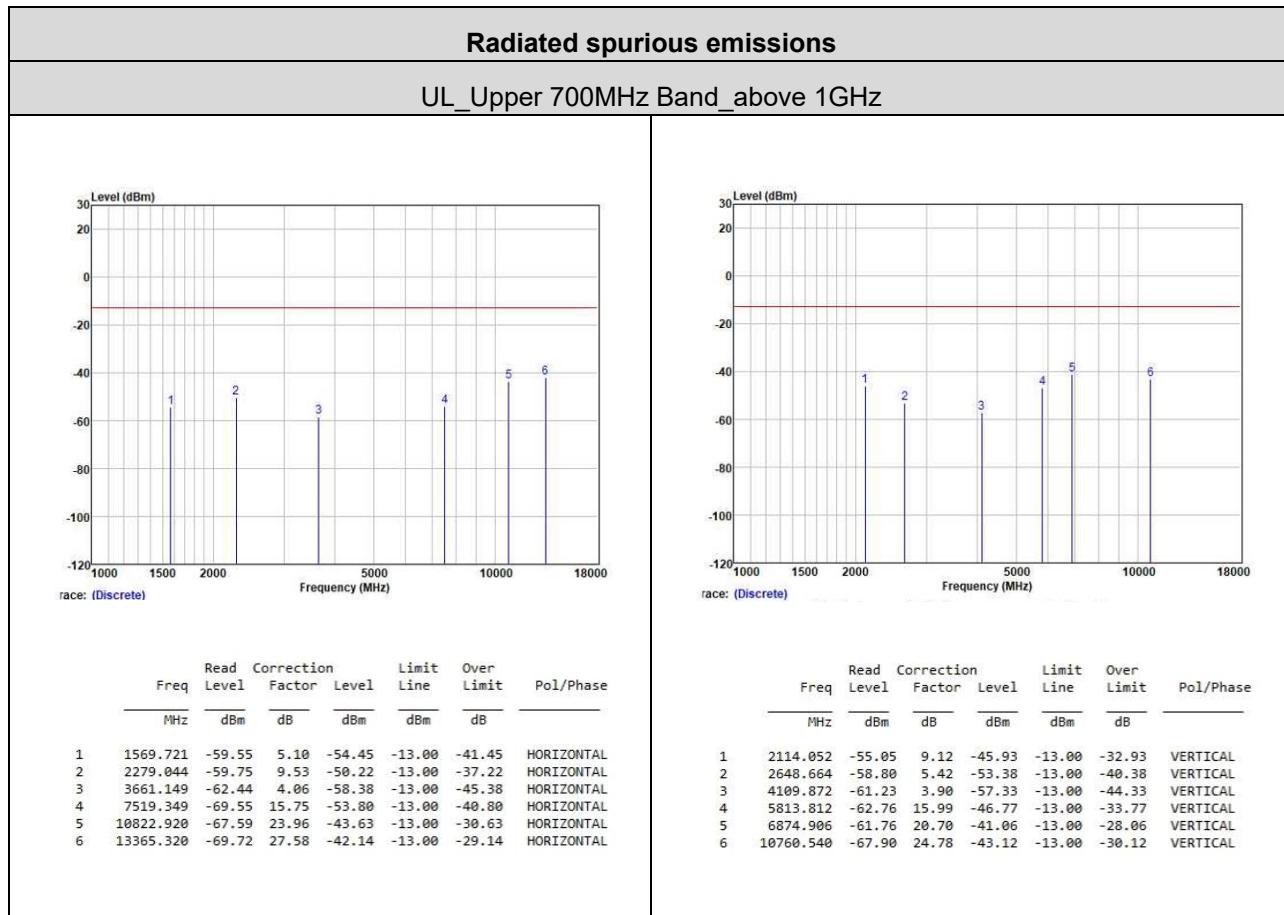


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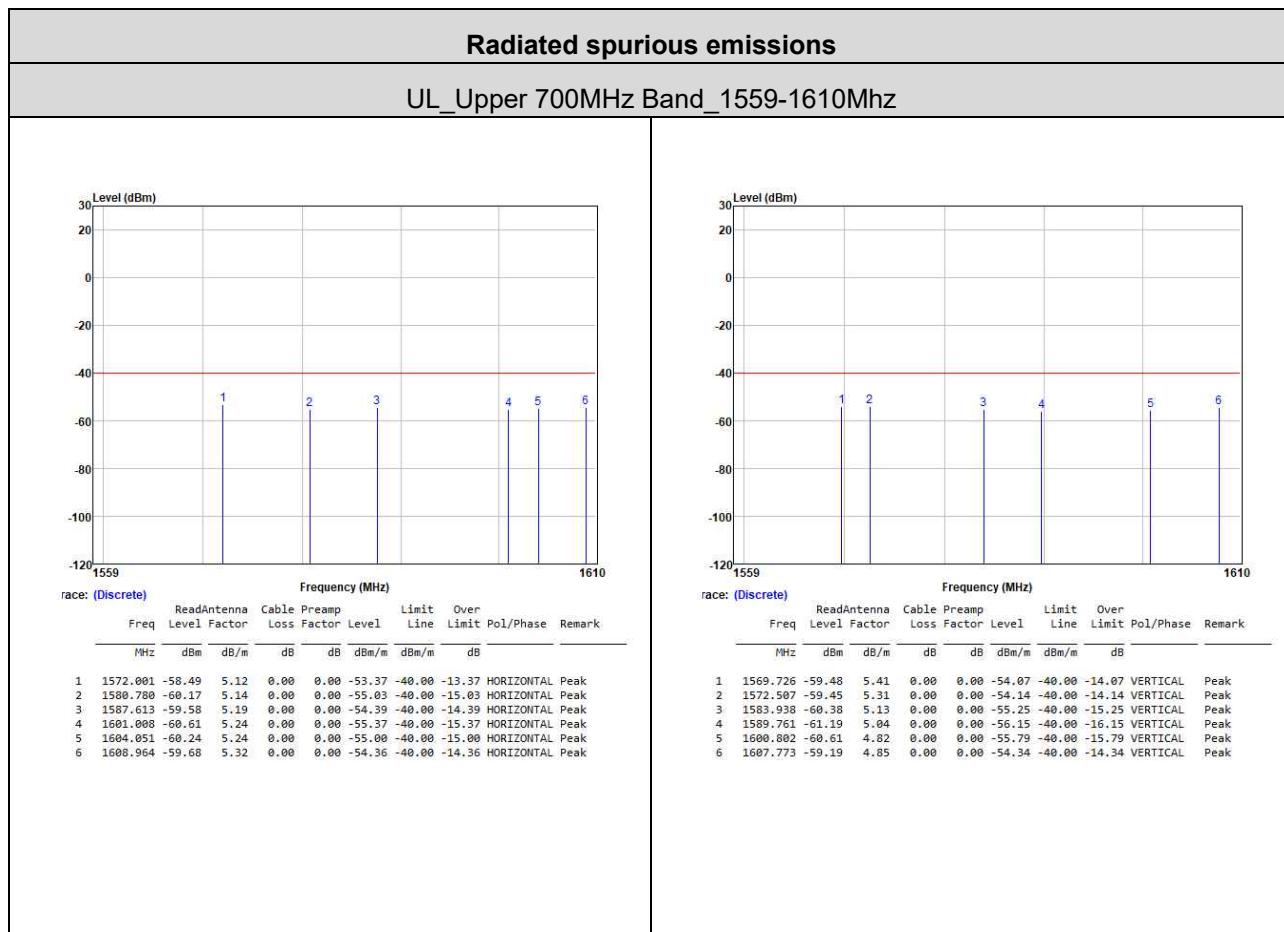


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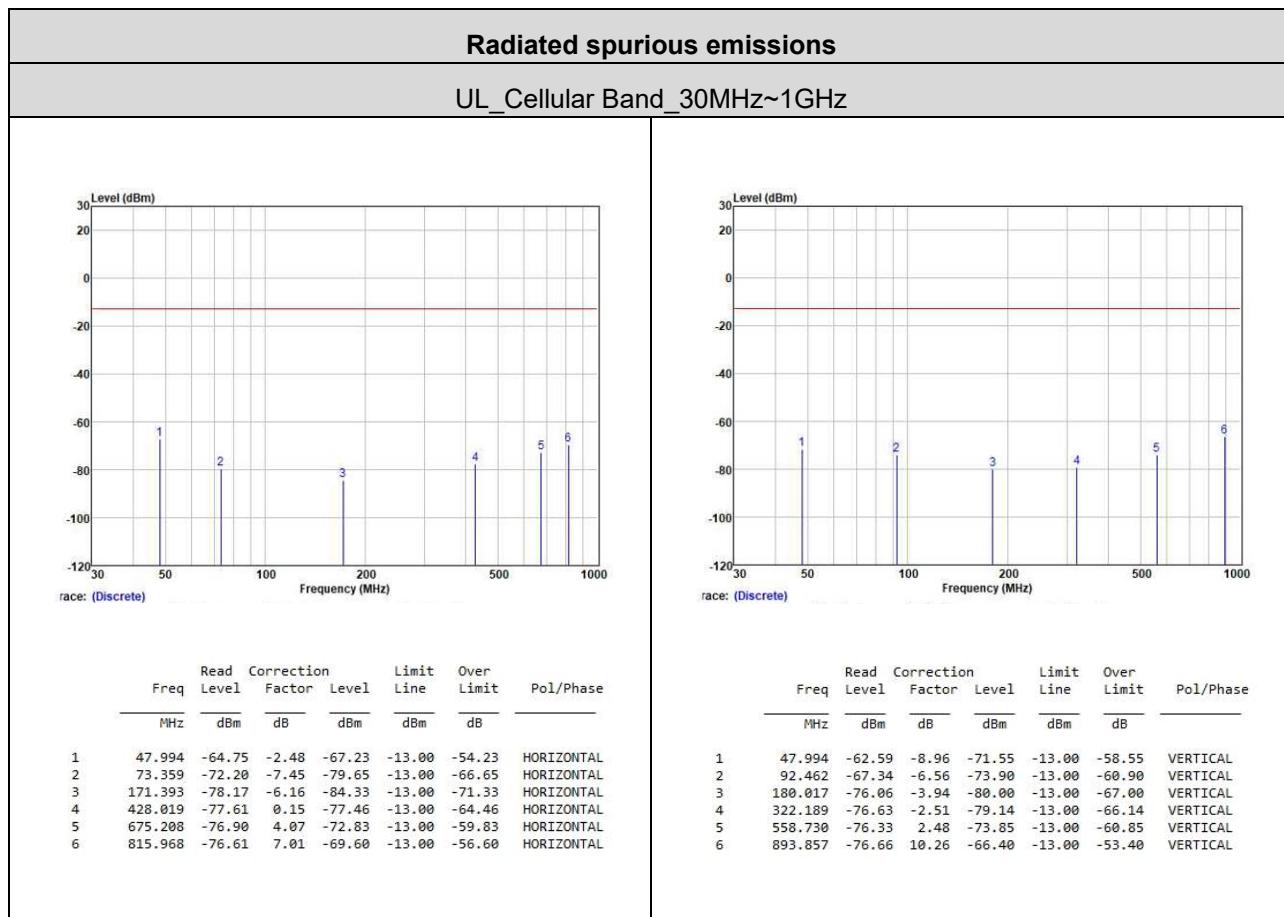


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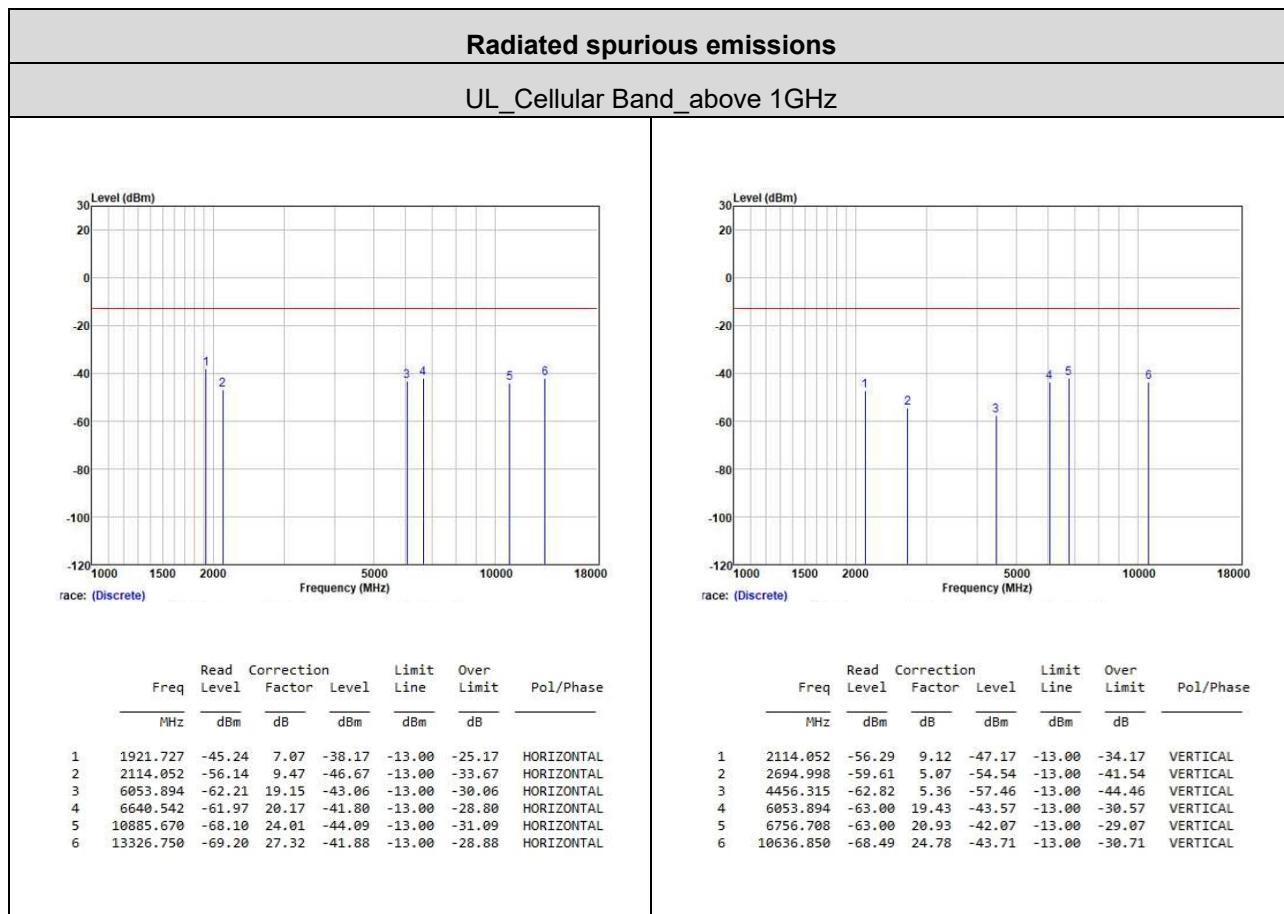


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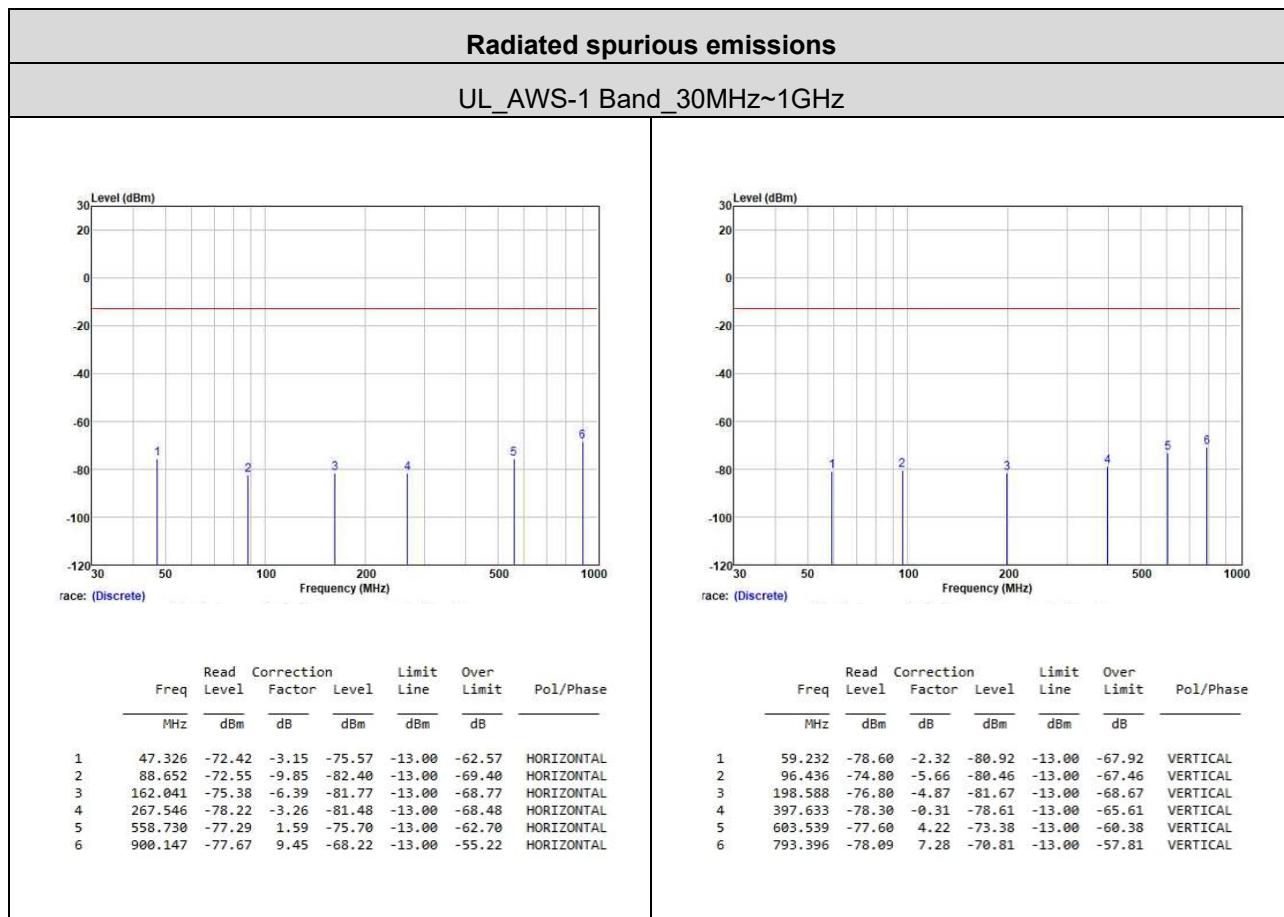


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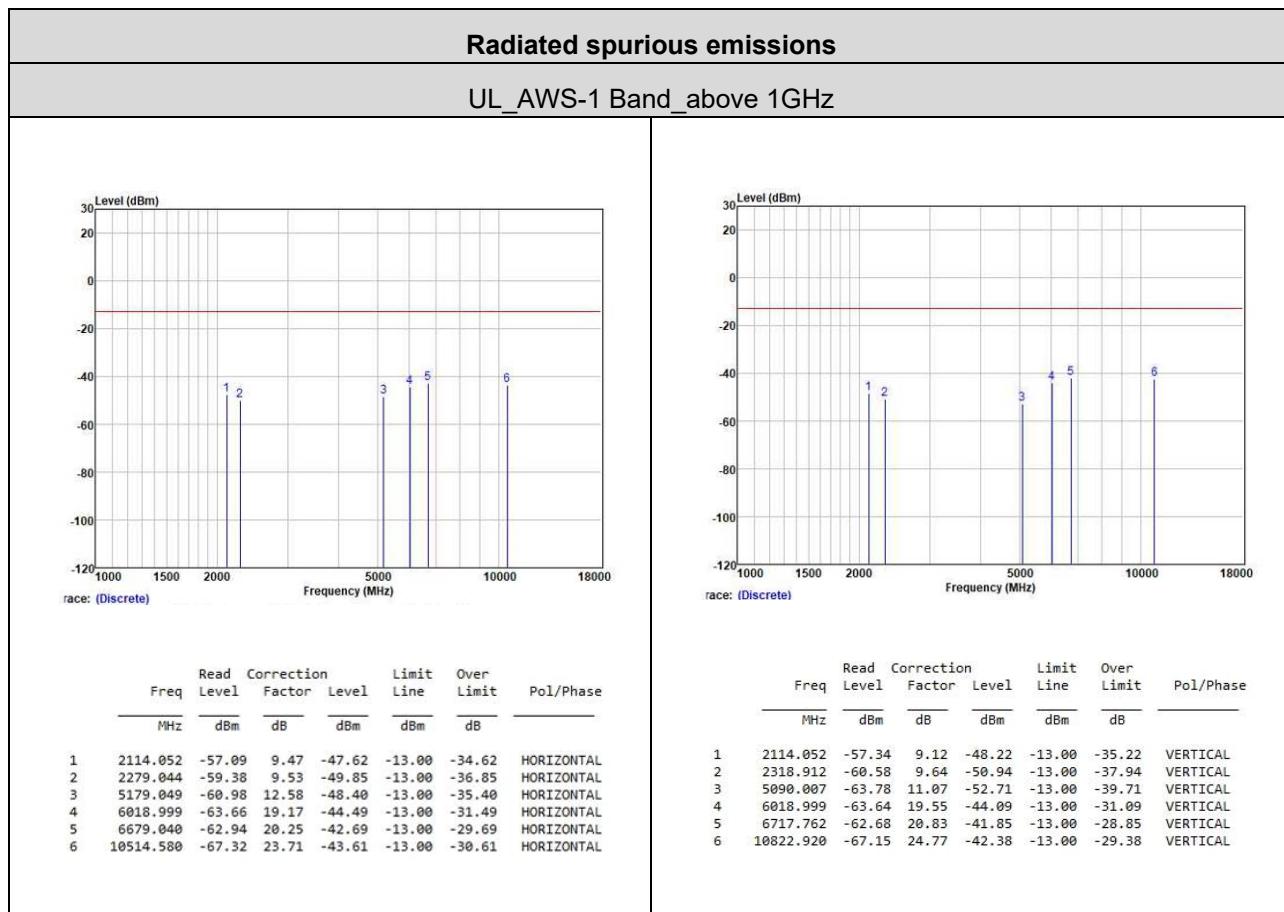


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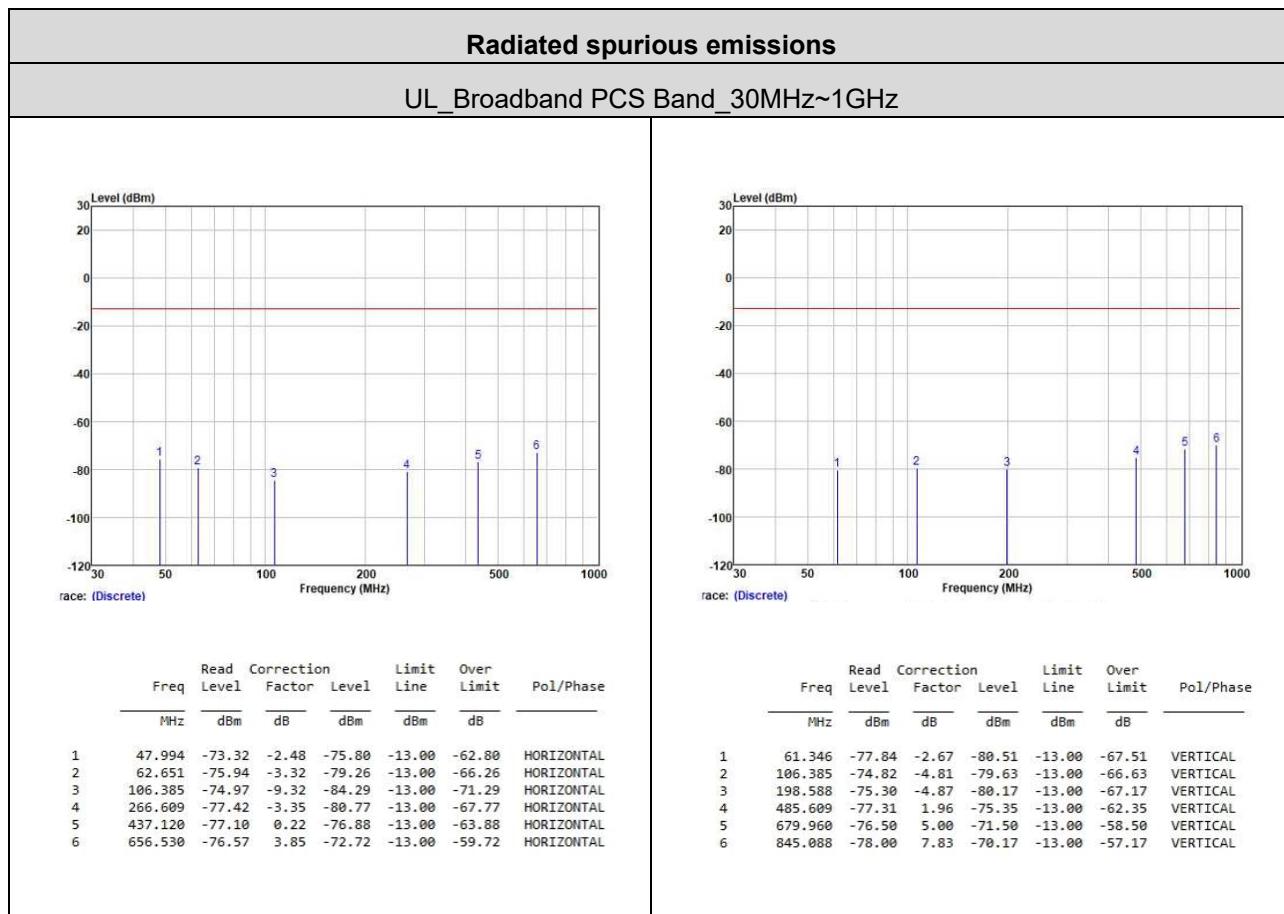
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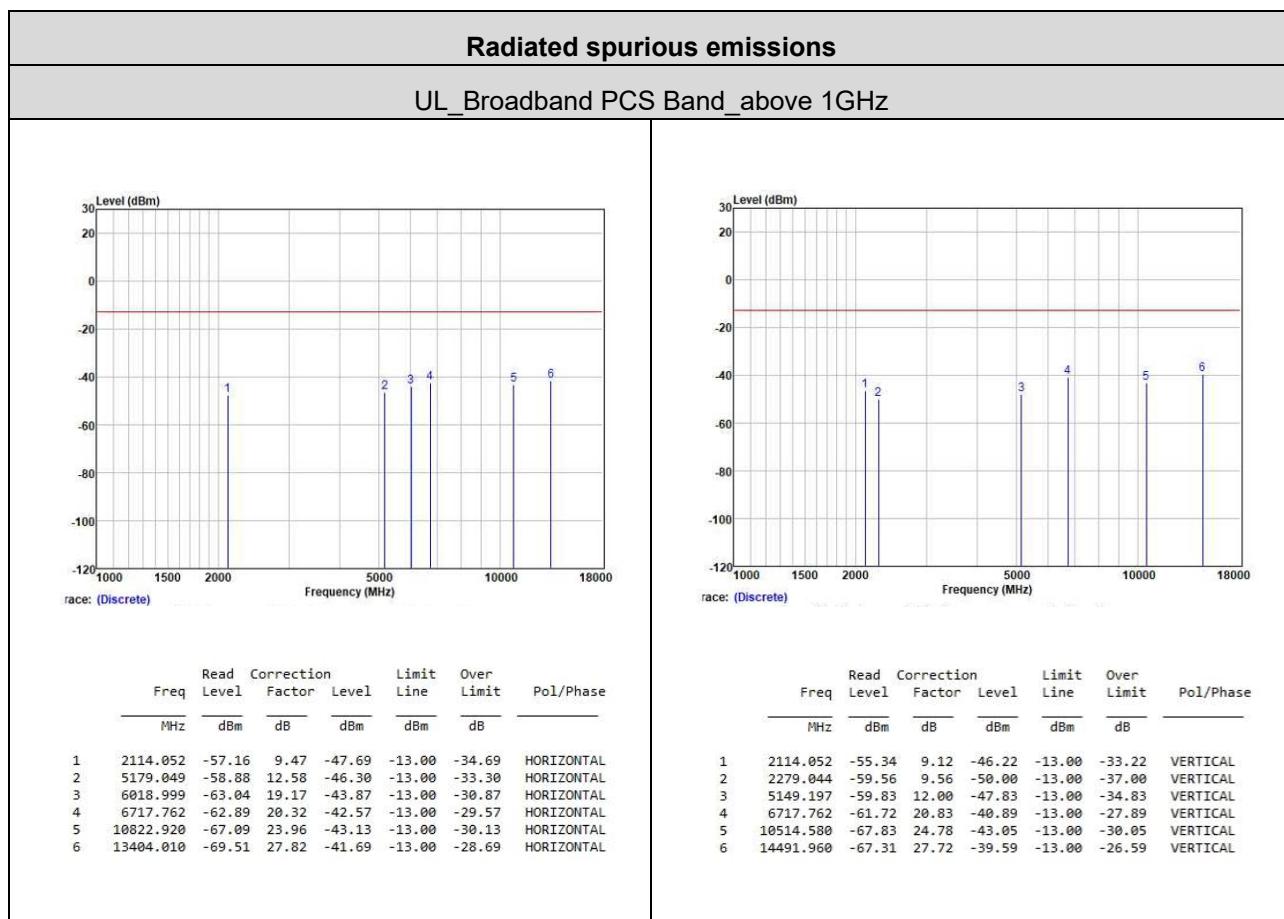


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14 Spectrum blocking filtering

Spectrum blocking filtering						Verdict	
Band	UL filter attenuation (dB)		DL filter attenuation (dB)		Limit		
	low edge	high edge	low edge	high edge			
Lower 700MHz	57.13	57.27	41.68	38.81	UL ≥ DL	PASS	
Upper 700MHz	56.97	56.74	39.27	38.01		PASS	
Cellular	56.07	56.49	41.93	44.44		PASS	
AWS-1	57.22	59.64	44.53	41.57		PASS	
Broadband PCS	56.96	59.08	48.64	50.78		PASS	

Remark:

Please refer to clause 1 "Authorized frequency band verification" test plots for more details.



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15 Out of band gain

Path	Band	Offset (MHz)	Gain (dB)		ATT (dB)		ATT Limit (dB)	Verdict
			Low edge	High edge	Low edge	High edge		
DL	Lower 700MHz	f_c	80.20		/		/	/
		0	43.27	47.38	-36.93	-32.82	≤ -20	PASS
		1	32.74	36.43	-47.46	-43.77	≤ -30	PASS
		5	20.36	24.58	-59.84	-55.62	≤ -40	PASS
	Upper 700MHz	f_c	80.32		/		/	/
		0	51.54	53.46	-28.78	-26.86	≤ -20	PASS
		1	40.28	41.24	-40.04	-39.08	≤ -30	PASS
		5	31.20	30.78	-49.12	-49.54	≤ -40	PASS
	Cellular	f_c	79.89		/		/	/
		0	40.38	46.73	-39.51	-33.16	≤ -20	PASS
		1	27.74	32.45	-52.15	-47.44	≤ -30	PASS
		5	19.83	22.37	-60.06	-57.52	≤ -40	PASS
	AWS-1	f_c	80.15		/		/	/
		0	48.37	44.32	-31.78	-35.83	≤ -20	PASS
		1	34.05	30.84	-46.1	-49.31	≤ -30	PASS
		5	22.37	20.00	-57.78	-60.15	≤ -40	PASS
	Broadband PCS	f_c	80.45		/		/	/
		0	50.36	54.23	-30.09	-26.22	≤ -20	PASS
		1	35.73	39.88	-44.72	-40.57	≤ -30	PASS
		5	28.37	30.18	-52.08	-50.27	≤ -40	PASS

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Out of band gain								
Path	Band	Offset (MHz)	Gain (dB)		ATT (dB)		ATT Limit (dB)	Verdict
			Low edge	High edge	Low edge	High edge		
UL	Lower 700MHz	f_c	79.66		/		/	/
		0	46.32	41.28	-33.34	-38.38	≤-20	PASS
		1	32.28	28.90	-47.38	-50.76	≤-30	PASS
		5	25.47	21.22	-54.19	-58.44	≤-40	PASS
	Upper 700MHz	f_c	80.24		/		/	/
		0	40.97	44.32	-39.27	-35.92	≤-20	PASS
		1	27.82	30.84	-52.42	-49.4	≤-30	PASS
		5	19.89	22.36	-60.35	-57.88	≤-40	PASS
	Cellular	f_c	80.05		/		/	/
		0	50.25	51.45	-29.8	-28.6	≤-20	PASS
		1	39.46	38.26	-40.59	-41.79	≤-30	PASS
		5	23.33	23.84	-56.72	-56.21	≤-40	PASS
	AWS-1	f_c	80.18		/		/	/
		0	40.73	43.45	-39.45	-36.73	≤-20	PASS
		1	26.17	31.28	-54.01	-48.9	≤-30	PASS
		5	20.70	22.53	-59.48	-57.65	≤-40	PASS
	Broadband PCS	f_c	80.56		/		/	/
		0	47.37	42.36	-33.19	-38.2	≤-20	PASS
		1	36.48	31.47	-44.08	-49.09	≤-30	PASS
		5	29.41	24.74	-51.15	-55.82	≤-40	PASS

Remark:

1. f_c is the centre frequency of the pass band of the EUT.
2. ATT is the attenuation referenced to the gain in f_c .

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Out of band gain						
Path	Band	Offset (MHz)	Gain (dB)		Gain Limit (dB)	Verdict
			Low edge	High edge		
DL	Lower 700MHz	0.2	38.63	42.74	≤60	PASS
		1	32.74	36.43	≤45	PASS
	Upper 700MHz	0.2	48.01	48.83	≤60	PASS
		1	40.28	41.24	≤45	PASS
	Cellular	0.2	34.44	40.02	≤60	PASS
		1	27.74	32.45	≤45	PASS
	AWS-1	0.2	41.36	39.63	≤60	PASS
		1	34.05	30.84	≤45	PASS
	Broadband PCS	0.2	46.77	48.30	≤60	PASS
		1	35.73	39.88	≤45	PASS
UL	Lower 700MHz	0.2	40.18	32.02	≤60	PASS
		1	32.28	28.90	≤45	PASS
	Upper 700MHz	0.2	34.73	39.36	≤60	PASS
		1	27.82	30.84	≤45	PASS
	Cellular	0.2	45.52	47.59	≤60	PASS
		1	39.46	38.26	≤45	PASS
	AWS-1	0.2	33.38	39.52	≤60	PASS
		1	26.17	31.28	≤45	PASS
	Broadband PCS	0.2	40.23	36.37	≤60	PASS
		1	36.48	31.47	≤45	PASS

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16 Frequency Stability

Frequency stability vs temperature							
Path	Band	Test Freq. (MHz)	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	Lower 700MHz	737	VN	+50	31	0.0421	PASS
				+40	24	0.0326	PASS
				+30	22	0.0299	PASS
				+20	27	0.0366	PASS
				+10	25	0.0339	PASS
				0	18	0.0244	PASS
				-10	22	0.0299	PASS
				-20	33	0.0448	PASS
				-30	18	0.0244	PASS
				+50	21	0.0280	PASS
	Upper 700MHz	751	VN	+40	22	0.0293	PASS
				+30	34	0.0453	PASS
				+20	20	0.0266	PASS
				+10	20	0.0266	PASS
				0	35	0.0466	PASS
				-10	33	0.0439	PASS
				-20	25	0.0333	PASS
				-30	28	0.0373	PASS

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Frequency stability vs temperature							
Path	Band	Test Freq. (MHz)	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	Cellular	881.5	VN	+50	21	0.0238	PASS
				+40	26	0.0295	PASS
				+30	24	0.0272	PASS
				+20	30	0.0340	PASS
				+10	24	0.0272	PASS
				0	30	0.0340	PASS
				-10	32	0.0363	PASS
				-20	25	0.0284	PASS
				-30	18	0.0204	PASS
				+50	28	0.0131	PASS
DL	AWS-1	2132.5	VN	+40	25	0.0117	PASS
				+30	24	0.0113	PASS
				+20	24	0.0113	PASS
				+10	29	0.0136	PASS
				0	25	0.0117	PASS
				-10	30	0.0141	PASS
				-20	23	0.0108	PASS
				-30	21	0.0098	PASS
				+50	18	0.0092	PASS
				+40	31	0.0158	PASS
DL	Broadband PCS	1962.5	VN	+30	33	0.0168	PASS
				+20	29	0.0148	PASS
				+10	30	0.0153	PASS
				0	24	0.0122	PASS
				-10	22	0.0112	PASS
				-20	19	0.0097	PASS
				-30	19	0.0097	PASS
				+50	18	0.0092	PASS
				+40	31	0.0158	PASS
				+30	33	0.0168	PASS

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Frequency stability vs temperature							
Path	Band	Test Freq. (MHz)	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	Lower 700MHz	707	VN	+50	34	0.0481	PASS
				+40	21	0.0297	PASS
				+30	31	0.0438	PASS
				+20	21	0.0297	PASS
				+10	25	0.0354	PASS
				0	30	0.0424	PASS
				-10	21	0.0297	PASS
				-20	34	0.0481	PASS
				-30	20	0.0283	PASS
				+50	25	0.0320	PASS
UL	Upper 700MHz	782	VN	+40	28	0.0358	PASS
				+30	27	0.0345	PASS
				+20	24	0.0307	PASS
				+10	21	0.0269	PASS
				0	19	0.0243	PASS
				-10	29	0.0371	PASS
				-20	21	0.0269	PASS
				-30	20	0.0256	PASS
				+50	32	0.0383	PASS
				+40	35	0.0418	PASS
UL	Cellular	836.5	VN	+30	31	0.0371	PASS
				+20	27	0.0323	PASS
				+10	28	0.0335	PASS
				0	32	0.0383	PASS
				-10	18	0.0215	PASS
				-20	26	0.0311	PASS
				-30	33	0.0395	PASS
				+50	32	0.0383	PASS
				+40	35	0.0418	PASS
				+30	31	0.0371	PASS

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Frequency stability vs temperature							
Path	Band	Test Freq. (MHz)	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	AWS-1	1732.5	VN	+50	31	0.0179	PASS
				+40	28	0.0162	PASS
				+30	25	0.0144	PASS
				+20	18	0.0104	PASS
				+10	18	0.0104	PASS
				0	24	0.0139	PASS
				-10	18	0.0104	PASS
				-20	19	0.0110	PASS
				-30	32	0.0185	PASS
				+50	24	0.0127	PASS
UL	Broadband PCS	1882.2	VN	+40	24	0.0127	PASS
				+30	29	0.0154	PASS
				+20	25	0.0133	PASS
				+10	18	0.0096	PASS
				0	23	0.0122	PASS
				-10	19	0.0101	PASS
				-20	34	0.0181	PASS
				-30	35	0.0186	PASS

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Frequency stability vs voltage							
Path	Band	Test Freq. (MHz)	Test Temp.	Test Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	Lower 700MHz	737	TN	VL	24	0.0326	PASS
				VN	25	0.0339	PASS
				VH	25	0.0339	PASS
	Upper 700MHz	751	TN	VL	21	0.0279	PASS
				VN	20	0.0266	PASS
				VH	21	0.0279	PASS
	Cellular	881.5	TN	VL	30	0.0340	PASS
				VN	30	0.0340	PASS
				VH	30	0.0340	PASS
UL	AWS-1	2132.5	TN	VL	25	0.0117	PASS
				VN	24	0.0113	PASS
				VH	23	0.0108	PASS
	Broadband PCS	1962.5	TN	VL	28	0.0143	PASS
				VN	29	0.0148	PASS
				VH	28	0.0143	PASS
	Lower 700MHz	707	TN	VL	21	0.0297	PASS
				VN	21	0.0297	PASS
				VH	20	0.0283	PASS
	Upper 700MHz	782	TN	VL	24	0.0307	PASS
				VN	24	0.0307	PASS
				VH	24	0.0307	PASS
	Cellular	836.5	TN	VL	25	0.0299	PASS
				VN	27	0.0323	PASS
				VH	29	0.0347	PASS

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Frequency stability vs voltage							
Path	Band	Test Freq. (MHz)	Test Temp.	Test Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	AWS-1	1732.5	TN	VL	16	0.0092	PASS
				VN	18	0.0104	PASS
				VH	18	0.0104	PASS
	Broadband PCS	1882.5	TN	VL	26	0.0138	PASS
				VN	25	0.0133	PASS
				VH	26	0.0138	PASS

--End of Appendix--

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