



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Effective (Isotropic) Radiated Output Power Data

Band 255 SCS 15kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	1626.6	12@0	23.56	2.8	26.36
QPSK		1@1	23.83	2.8	26.63
QPSK		1@10	23.57	2.8	26.37
BPSK		1@1	23.69	2.8	26.49
BPSK		1@10	23.52	2.8	26.32
QPSK	1643.5	12@0	23.48	2.8	26.28
QPSK		1@1	23.83	2.8	26.63
QPSK		1@10	23.56	2.8	26.36
BPSK		1@1	23.75	2.8	26.55
BPSK		1@10	23.53	2.8	26.33
QPSK	1660.4	12@0	23.44	2.8	26.24
QPSK		1@1	23.85	2.8	26.65
QPSK		1@10	23.69	2.8	26.49
BPSK		1@1	23.67	2.8	26.47
BPSK		1@10	23.54	2.8	26.34

Band 255 SCS 3.75kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	1626.6	1@1	23.34	2.8	26.14
QPSK		1@46	23.22	2.8	26.02
BPSK		1@1	23.12	2.8	25.92
BPSK		1@46	23.09	2.8	25.89
QPSK	1643.5	1@1	23.31	2.8	26.11
QPSK		1@46	23.33	2.8	26.13
BPSK		1@1	23.16	2.8	25.96
BPSK		1@46	23.12	2.8	25.92
QPSK	1660.4	1@1	23.35	2.8	26.15
QPSK		1@46	23.24	2.8	26.04
BPSK		1@1	23.27	2.8	26.07
BPSK		1@46	23.13	2.8	25.93



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99% & 26dB Bandwidth Test Result

Band 255 SCS 15kHz						
Modulation	CH	N tones Allocation	99% Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)	Verdict
QPSK	Low CH	12@0	184.67	249.0	/	Pass
QPSK		1@1	129.71	126.4	/	Pass
QPSK		1@10	122.04	102.4	/	Pass
BPSK		1@1	124.89	128.3	/	Pass
BPSK		1@10	125.20	130.2	/	Pass
QPSK	Middle CH	12@0	193.63	265.0	/	Pass
QPSK		1@1	123.64	124.4	/	Pass
QPSK		1@10	129.01	117.5	/	Pass
BPSK		1@1	126.26	129.3	/	Pass
BPSK		1@10	123.93	127.2	/	Pass
QPSK	High CH	12@0	188.72	251.0	/	Pass
QPSK		1@1	123.90	126.8	/	Pass
QPSK		1@10	124.97	117.5	/	Pass
BPSK		1@1	126.83	124.7	/	Pass
BPSK		1@10	117.49	115.6	/	Pass

Band 255 SCS 3.75kHz						
Modulation	CH	N tones Allocation	99% Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)	Verdict
QPSK	Low CH	1@1	54.884	38.10	/	Pass
QPSK		1@46	54.877	38.28	/	Pass
BPSK		1@1	54.076	38.12	/	Pass
BPSK		1@46	51.921	35.23	/	Pass
QPSK	Middle CH	1@1	54.844	37.93	/	Pass
QPSK		1@46	56.453	37.60	/	Pass
BPSK		1@1	50.597	33.99	/	Pass
BPSK		1@46	52.841	33.33	/	Pass
QPSK	High CH	1@1	54.812	37.94	/	Pass
QPSK		1@46	55.685	38.27	/	Pass
BPSK		1@1	53.043	33.94	/	Pass
BPSK		1@46	50.804	35.77	/	Pass



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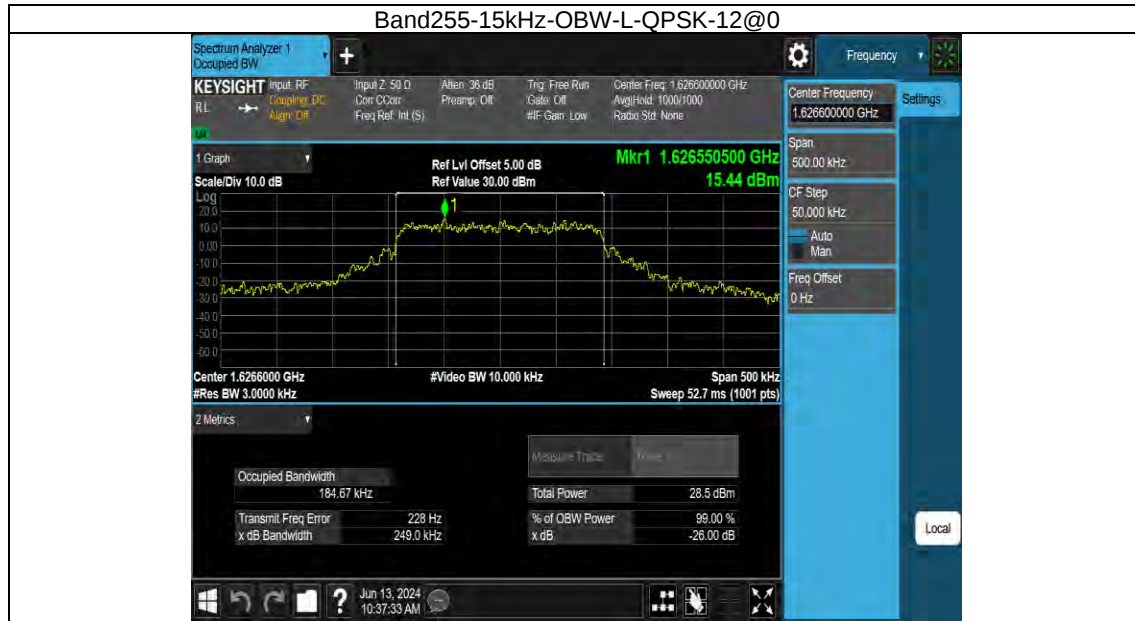
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Test graph



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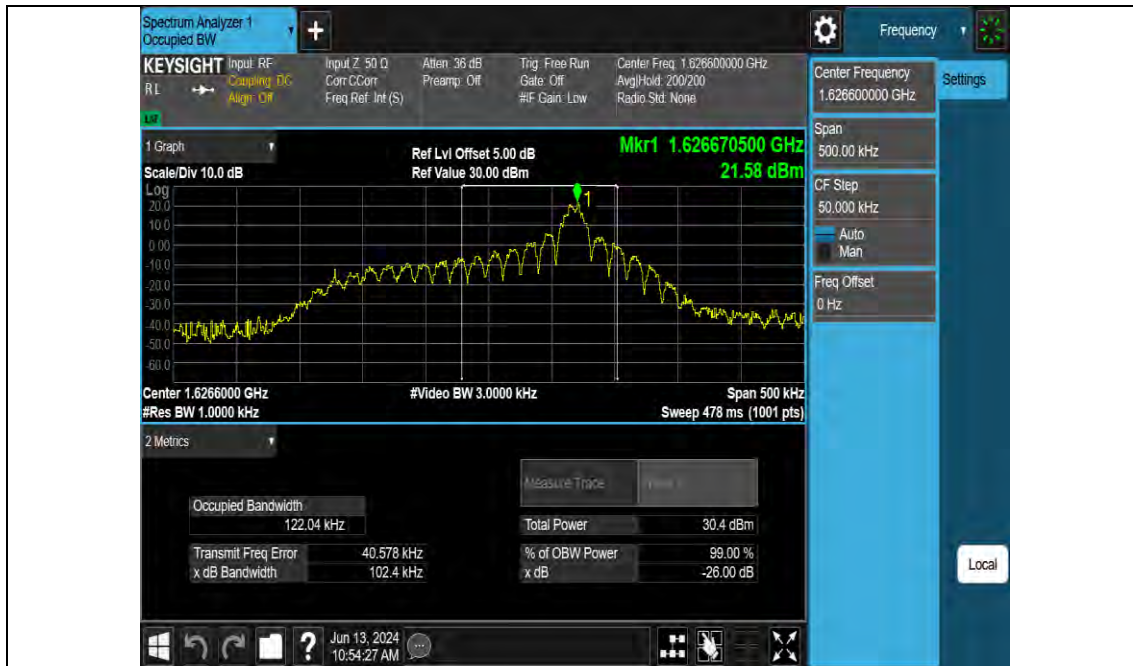
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Band255-15kHz-OBW-L-BPSK-1@1



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Band255-15kHz-OBW-H-QPSK-12@0



Band255-15kHz-OBW-H-QPSK-1@1



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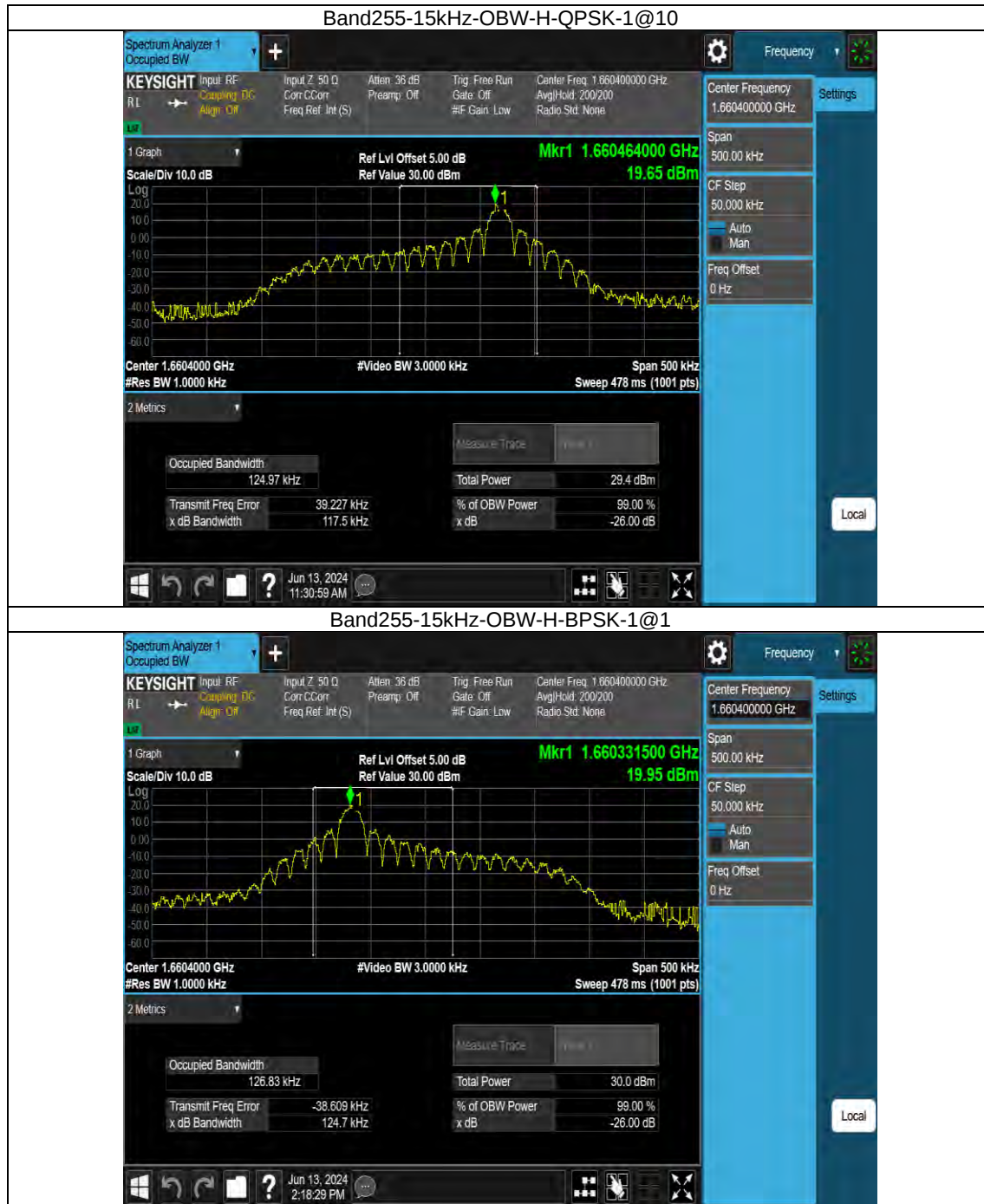
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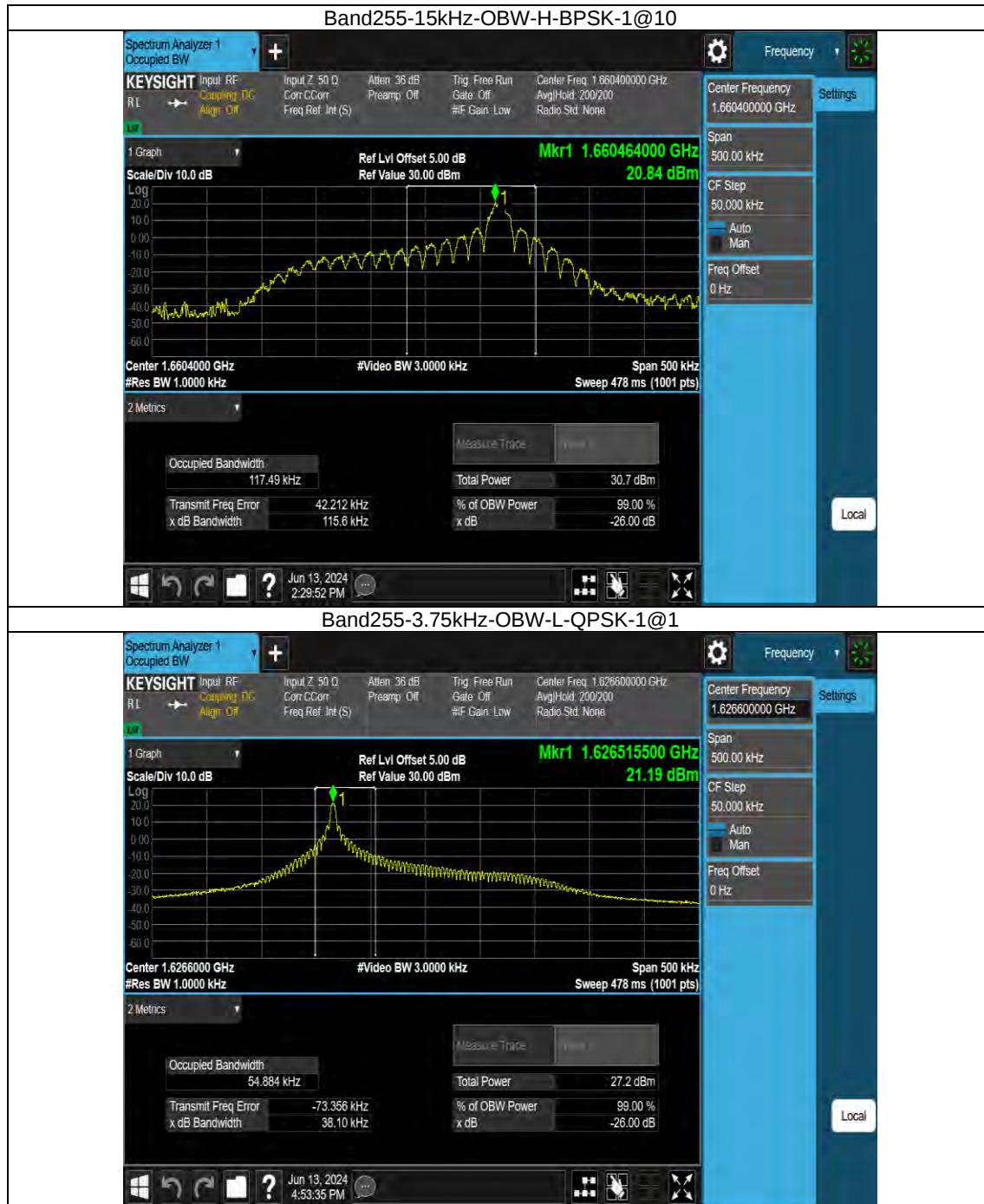


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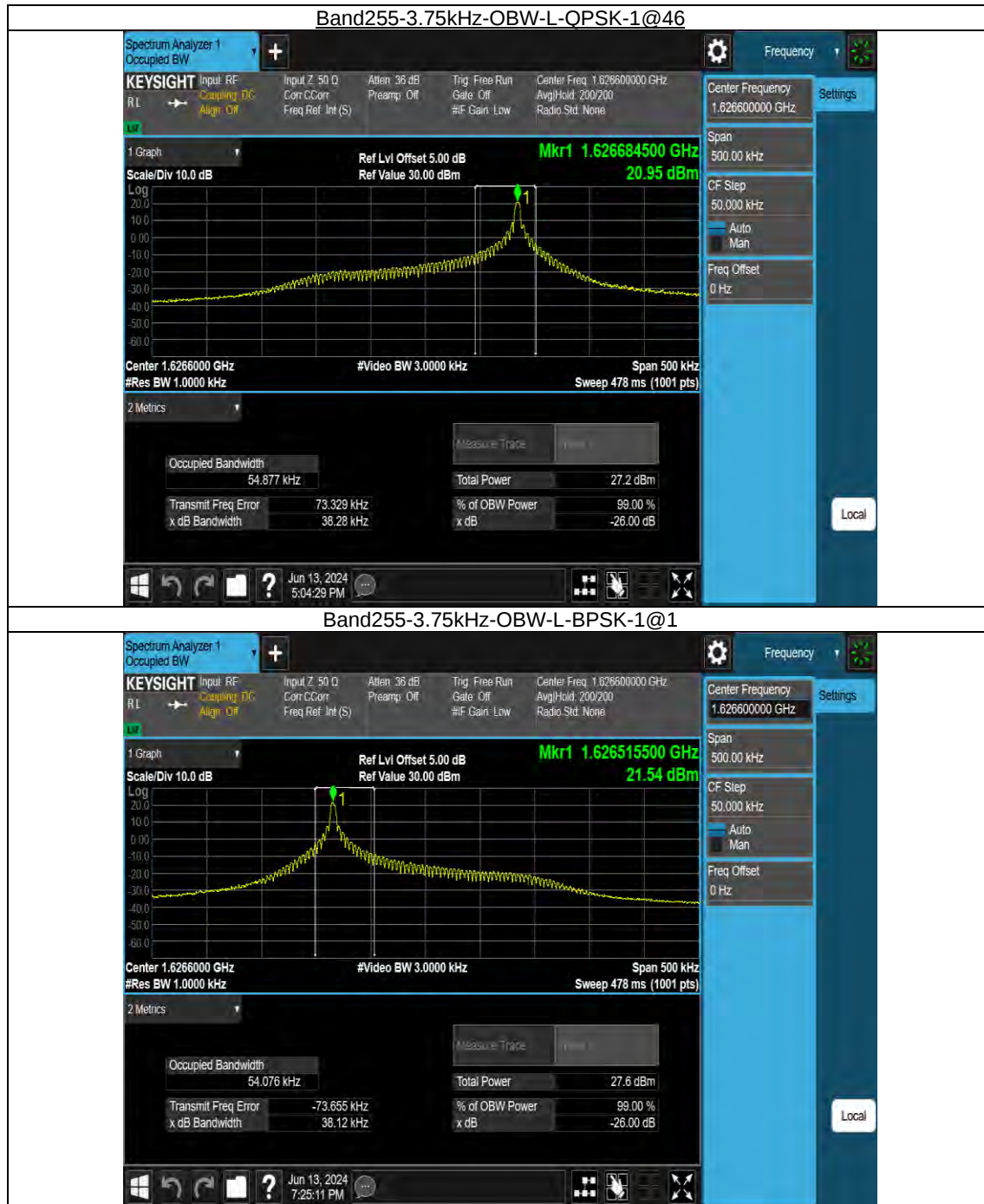
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Band255-3.75kHz-OBW-M-QPSK-1@1



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Band255-3.75kHz-OBW-M-QPSK-1@46



Band255-3.75kHz-OBW-M-BPSK-1@1



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Band255-3.75kHz-OBW-M-BPSK-1@46



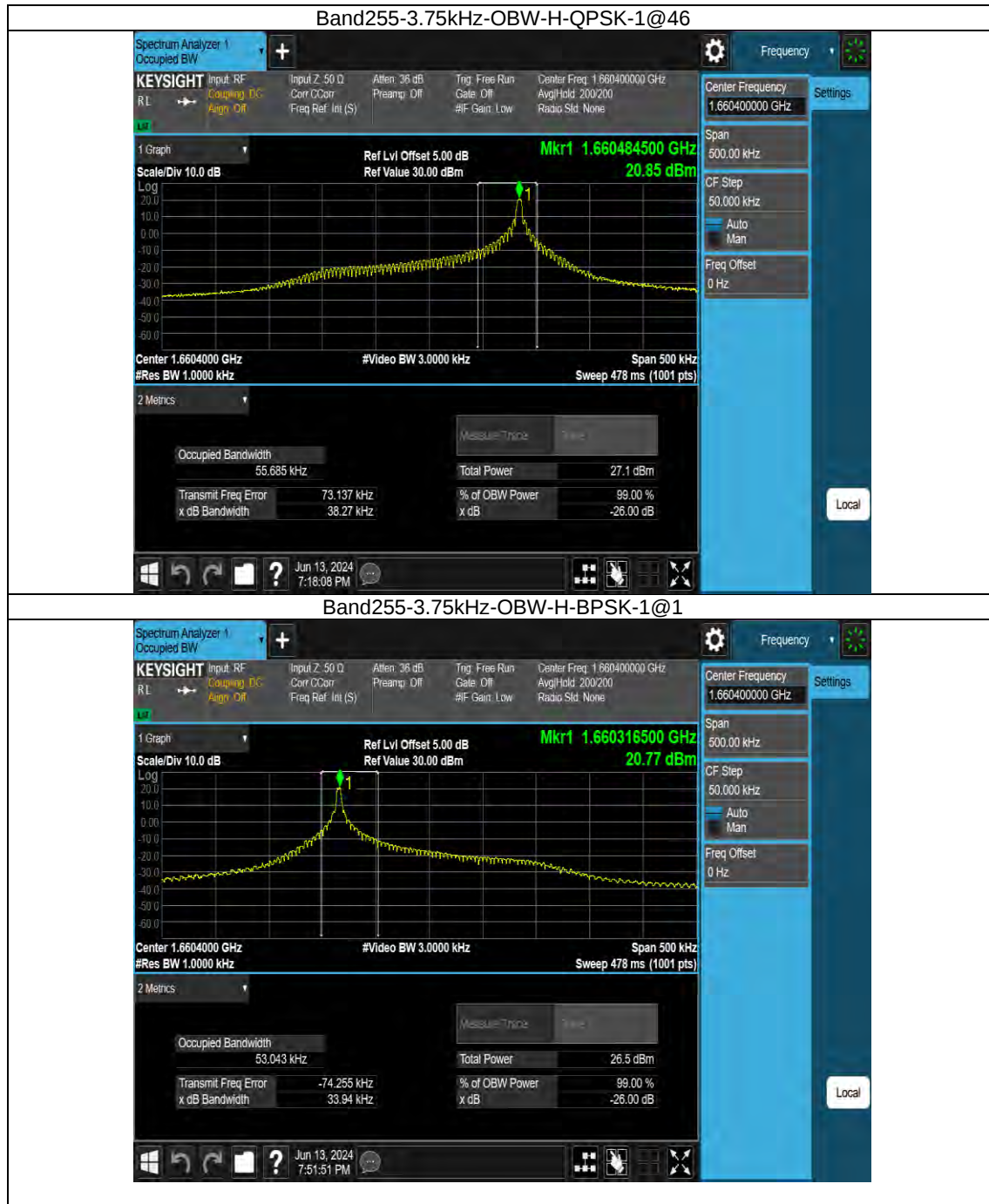
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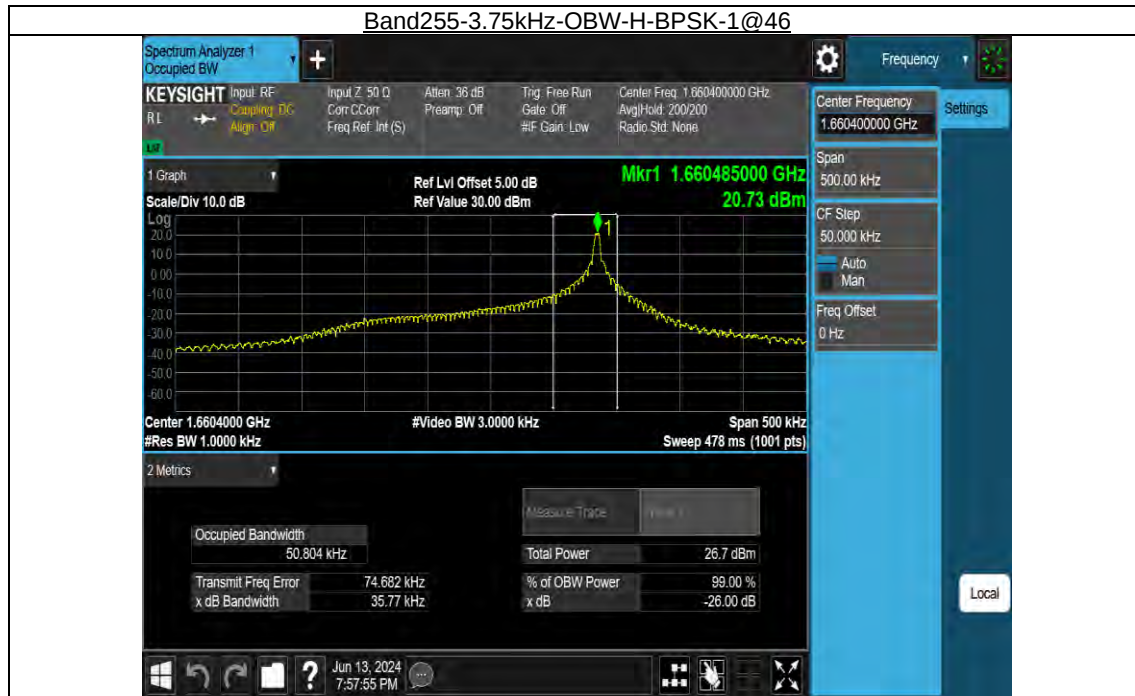
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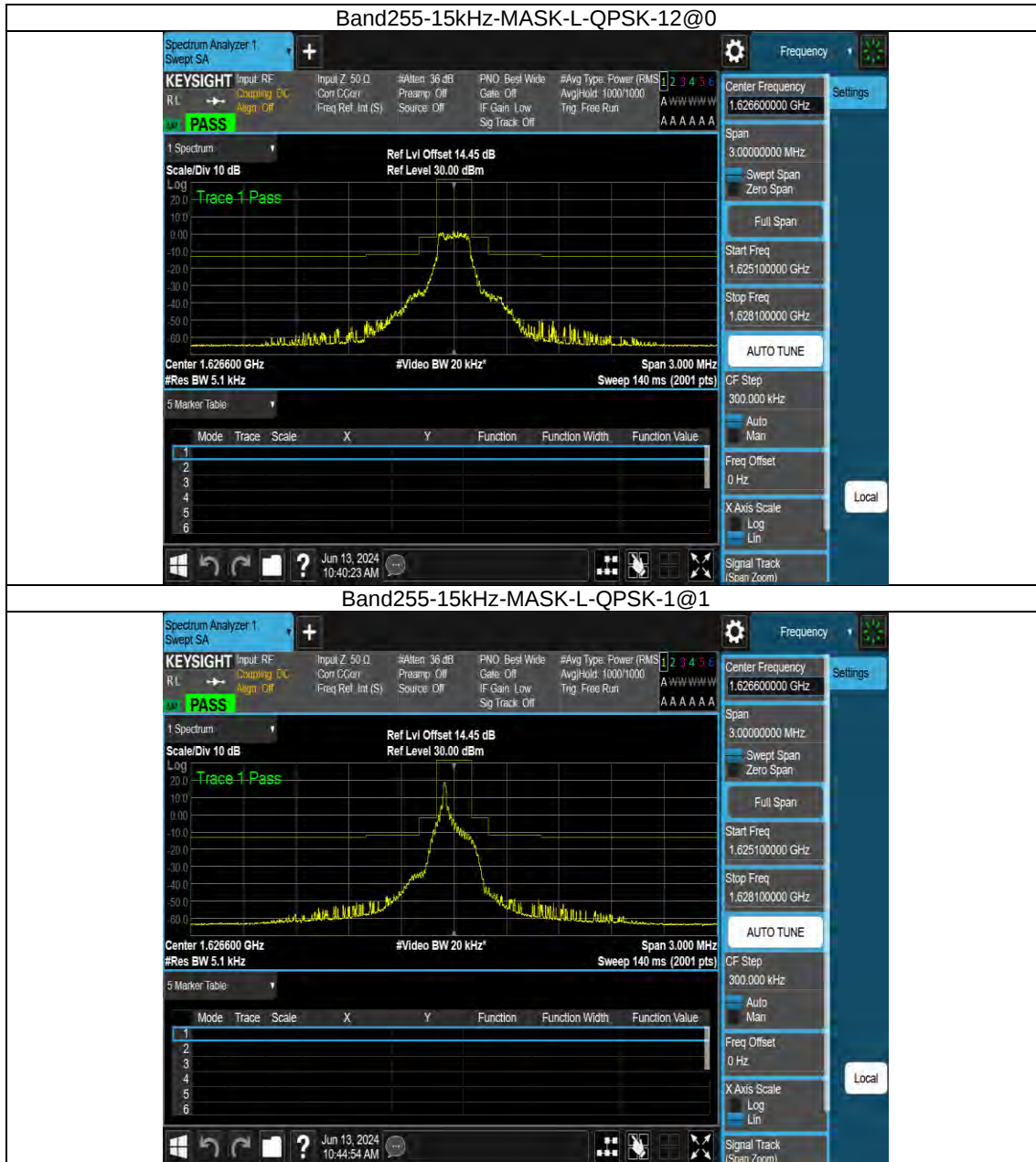


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Emission mask test Graph



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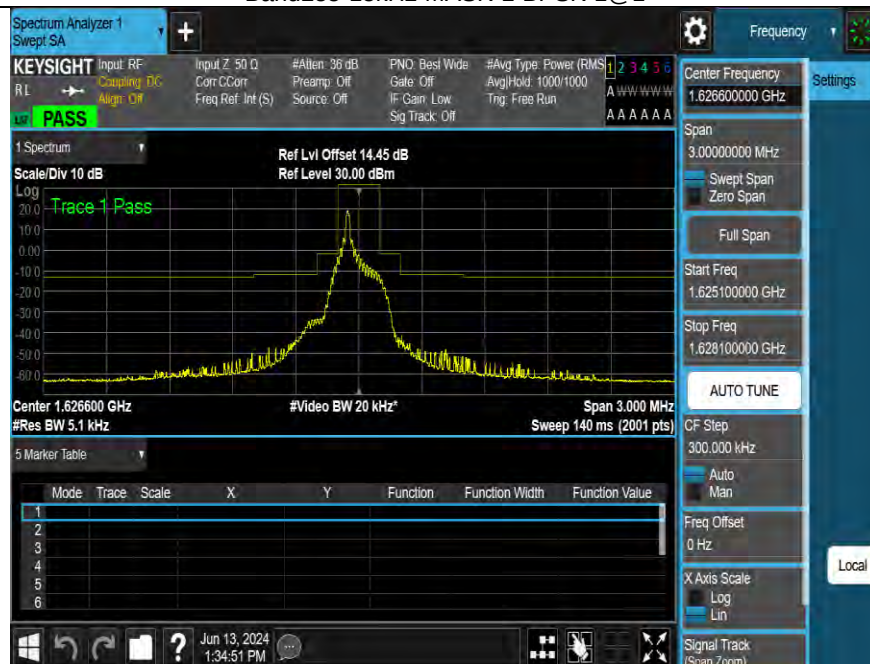
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Band255-15kHz-MASK-L-QPSK-1@10



Band255-15kHz-MASK-L-BPSK-1@1



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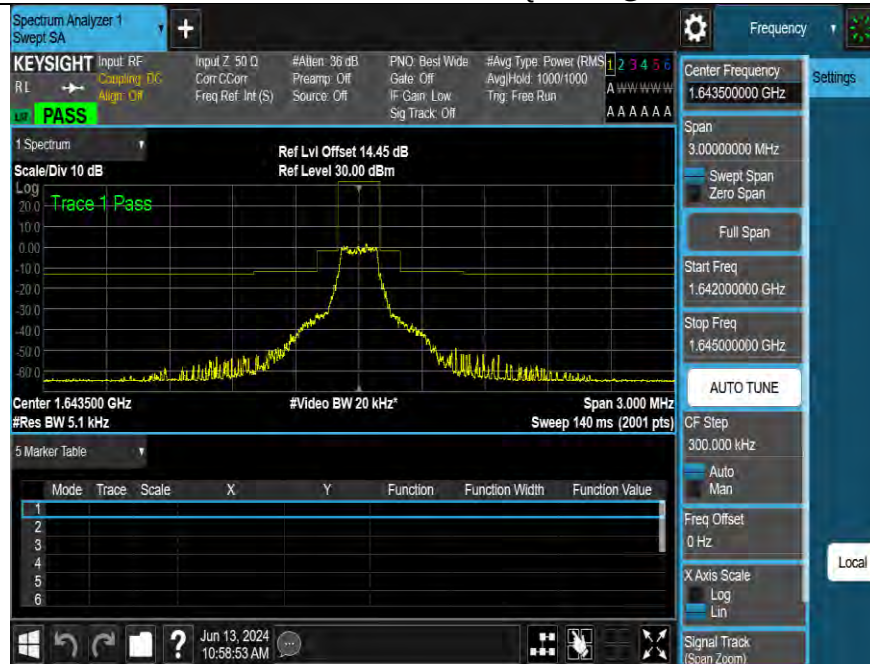
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Band255-15kHz-MASK-L-BPSK-1@10



Band255-15kHz-MASK-M-QPSK-12@0



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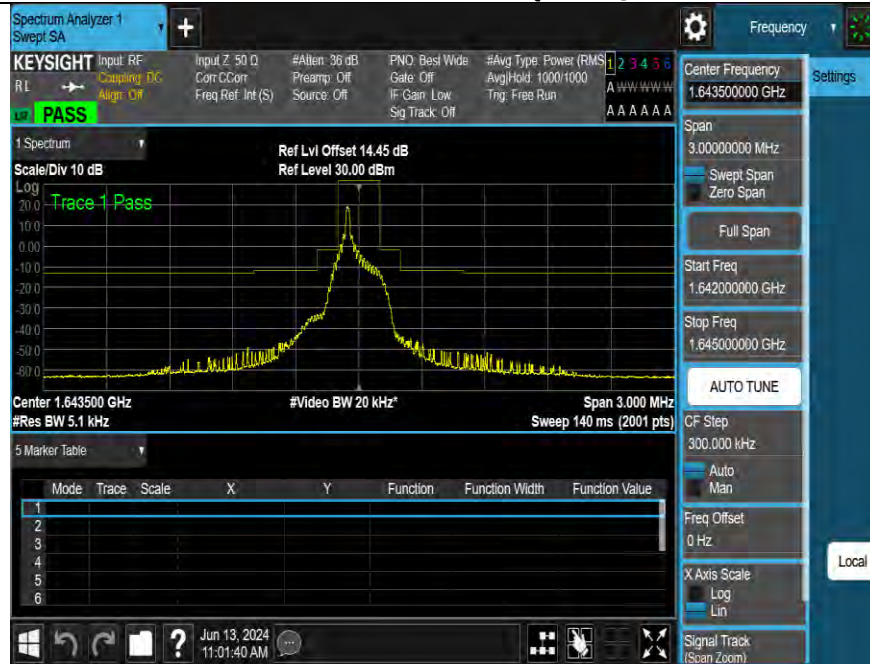
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Band255-15kHz-MASK-M-QPSK-1@1



Band255-15kHz-MASK-M-QPSK-1@10



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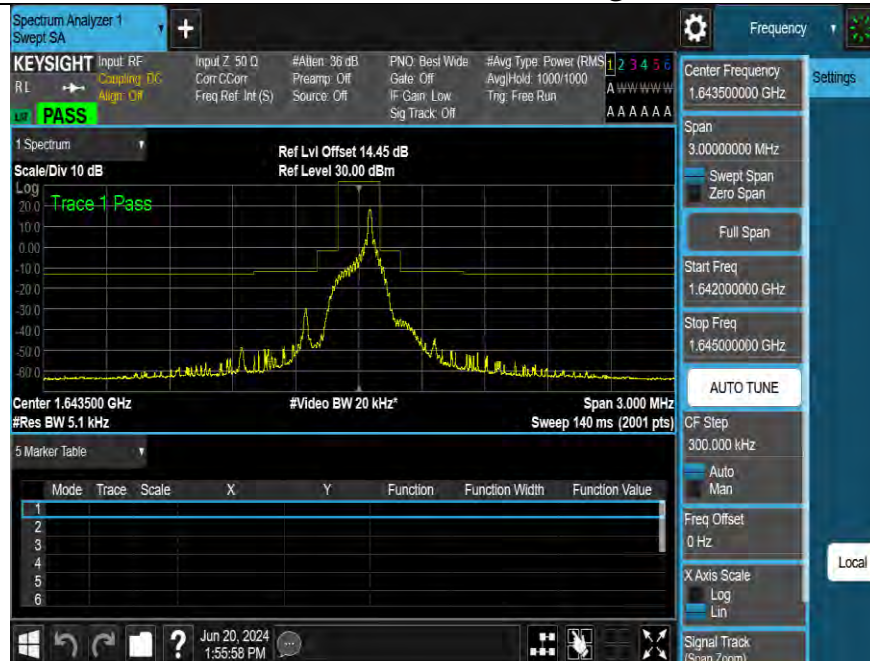
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Band255-15kHz-MASK-M-BPSK-1@1



Band255-15kHz-MASK-M-BPSK-1@10



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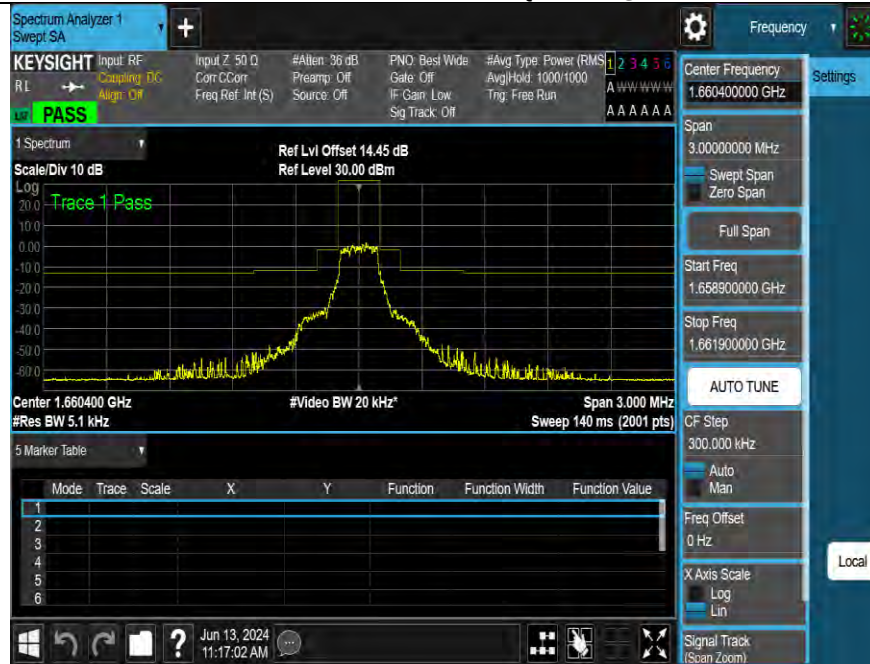
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Band255-15kHz-MASK-H-QPSK-12@0



Band255-15kHz-MASK-H-QPSK-1@1



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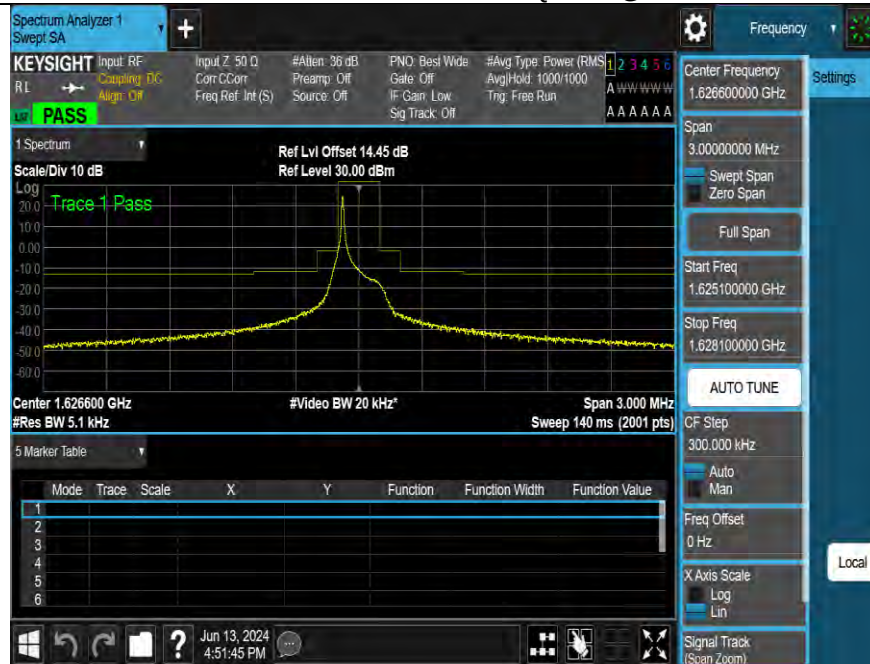
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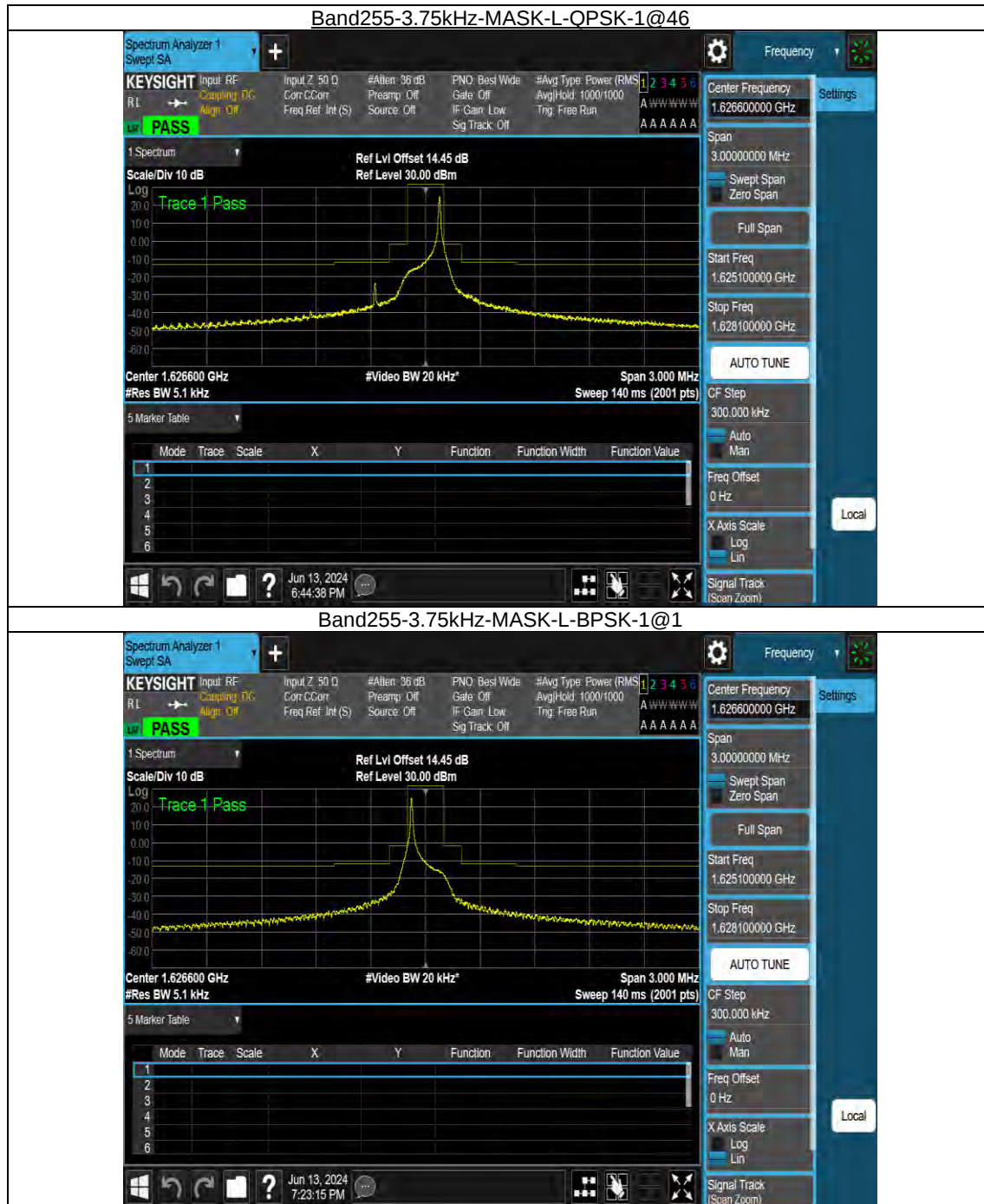
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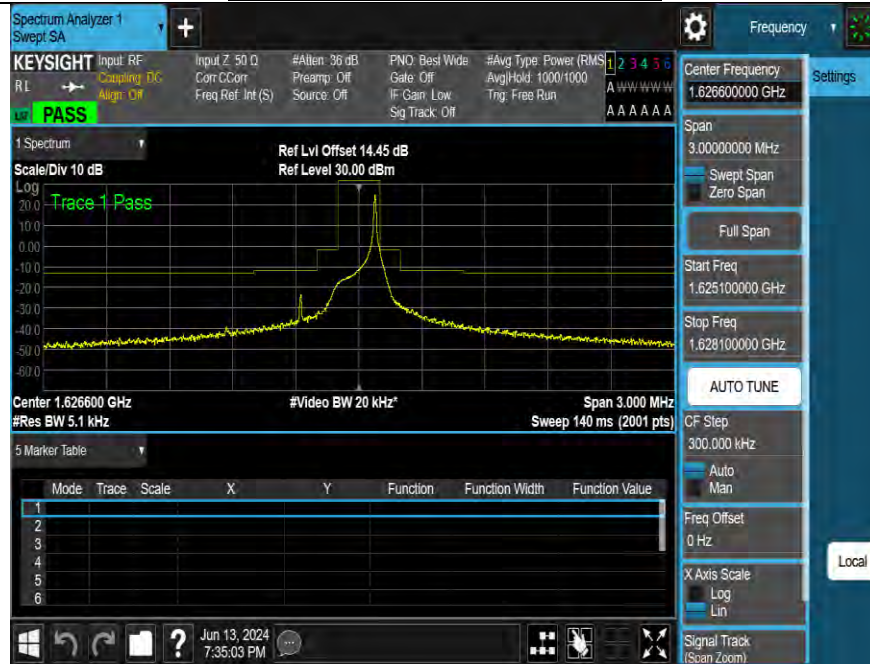
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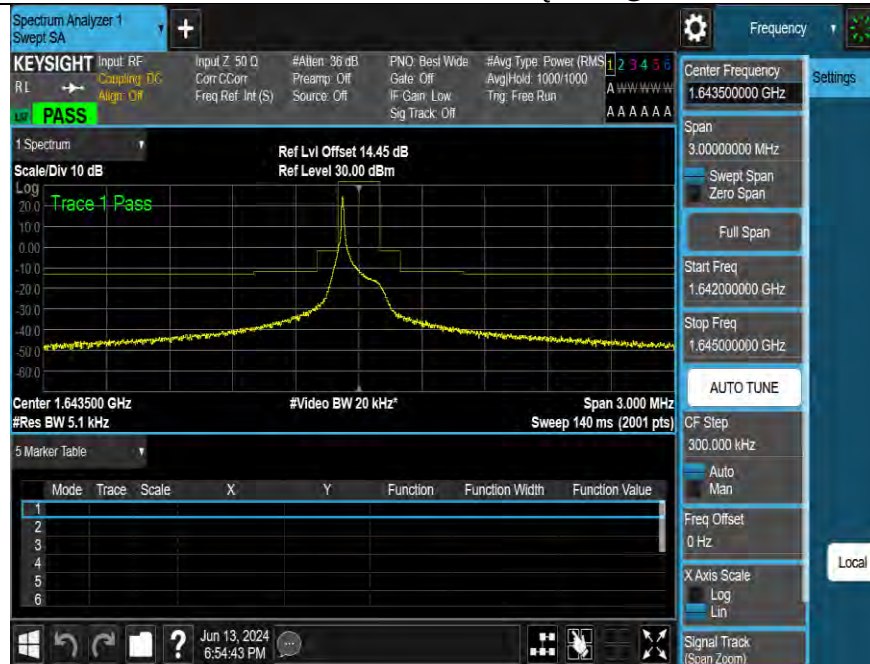
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Band255-3.75kHz-MASK-M-QPSK-1@1



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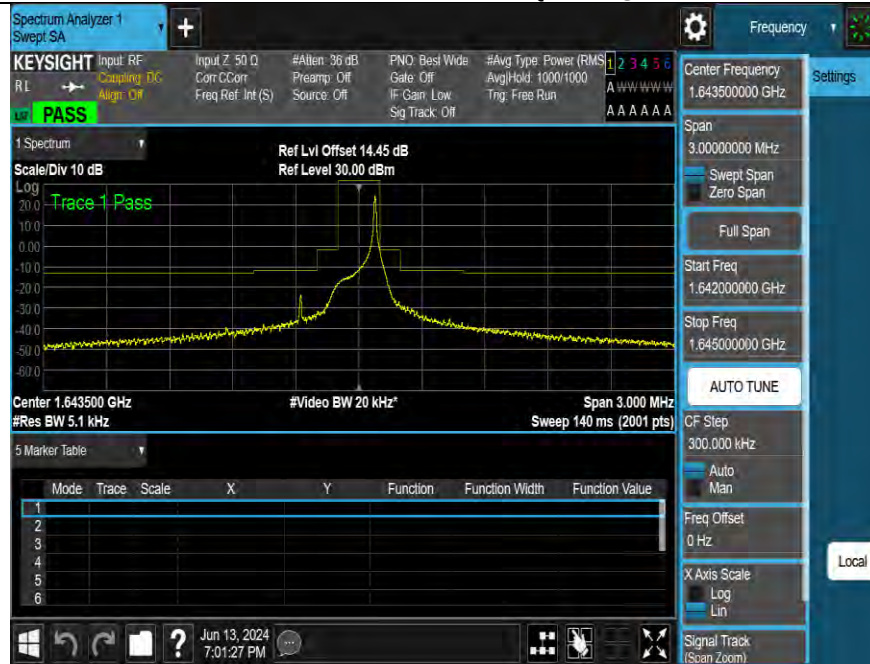
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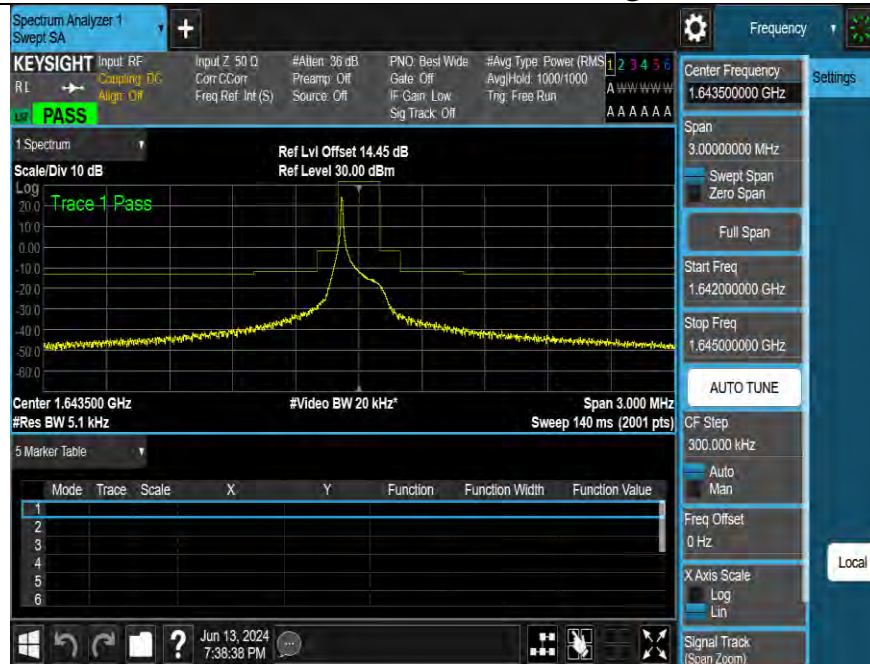
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Band255-3.75kHz-MASK-M-QPSK-1@46



Band255-3.75kHz-MASK-M-BPSK-1@1



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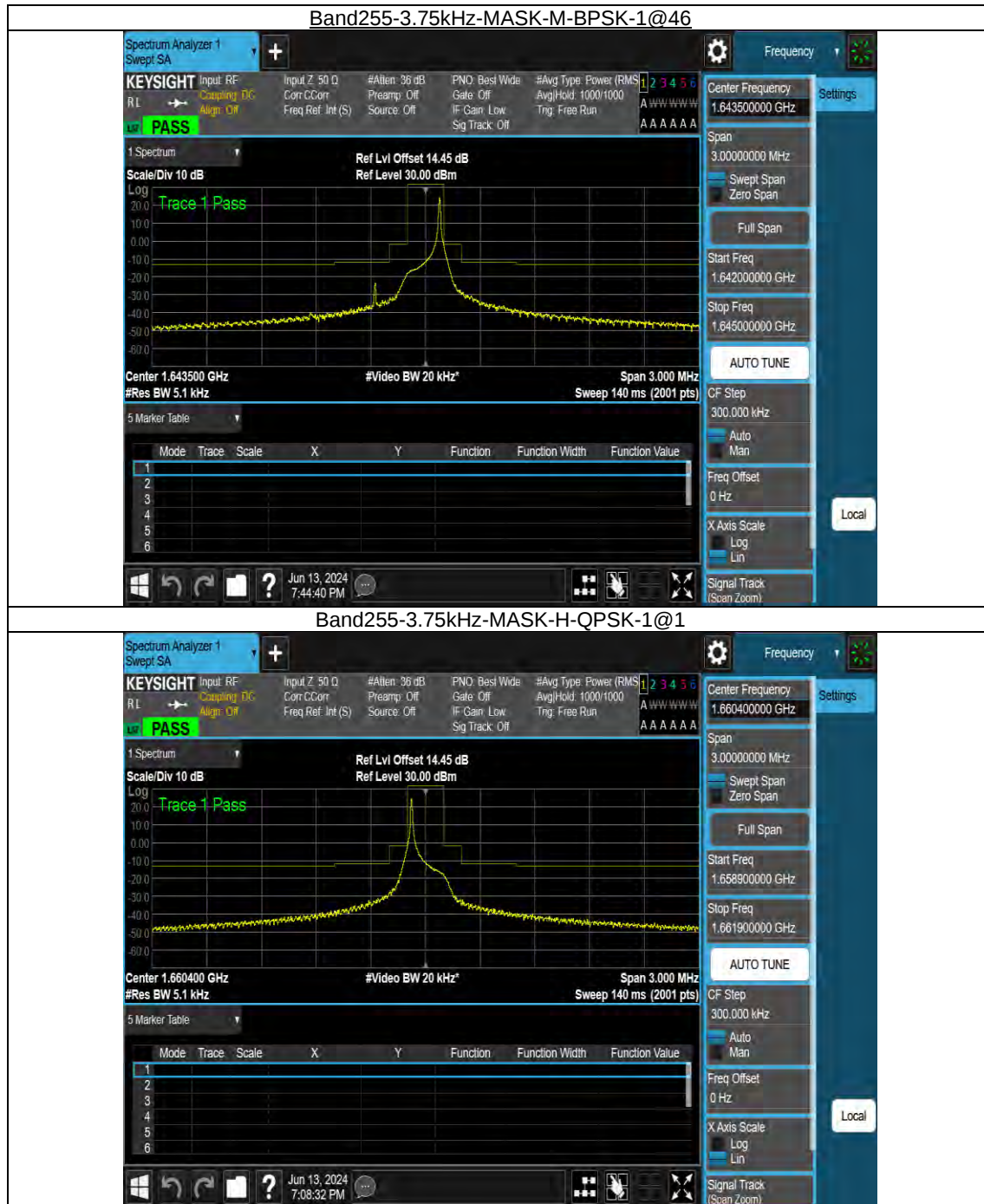
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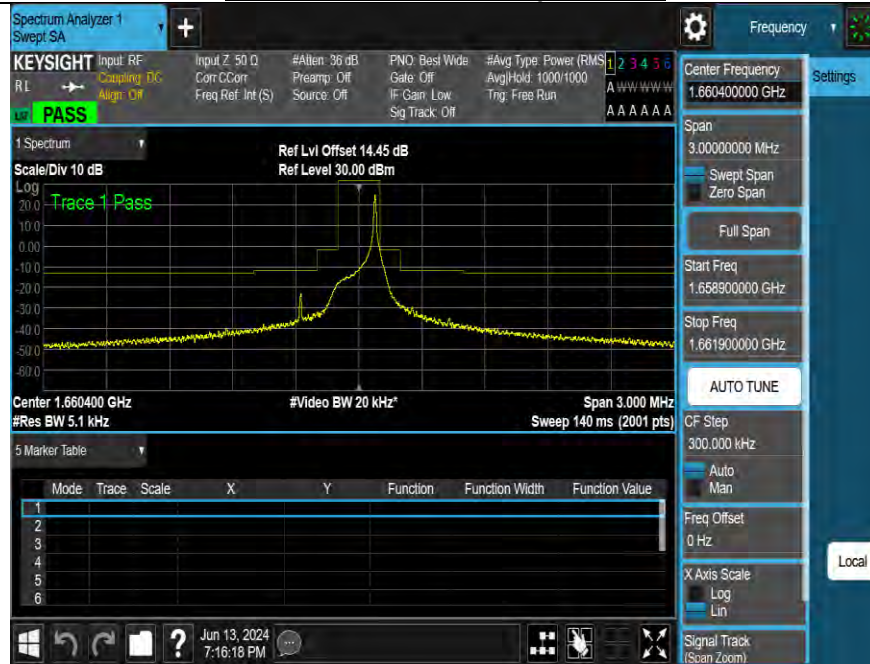
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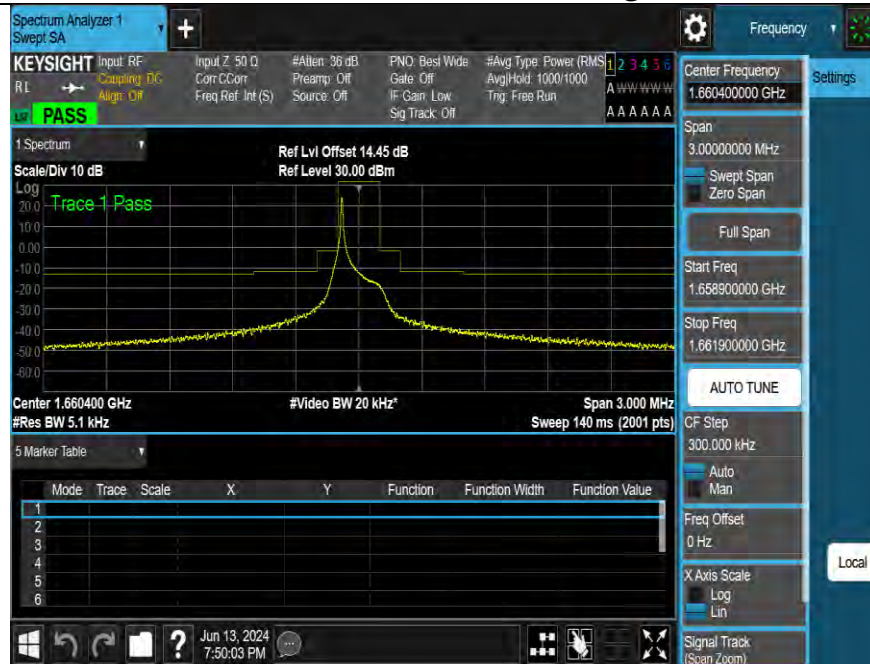
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Band255-3.75kHz-MASK-H-BPSK-1@1



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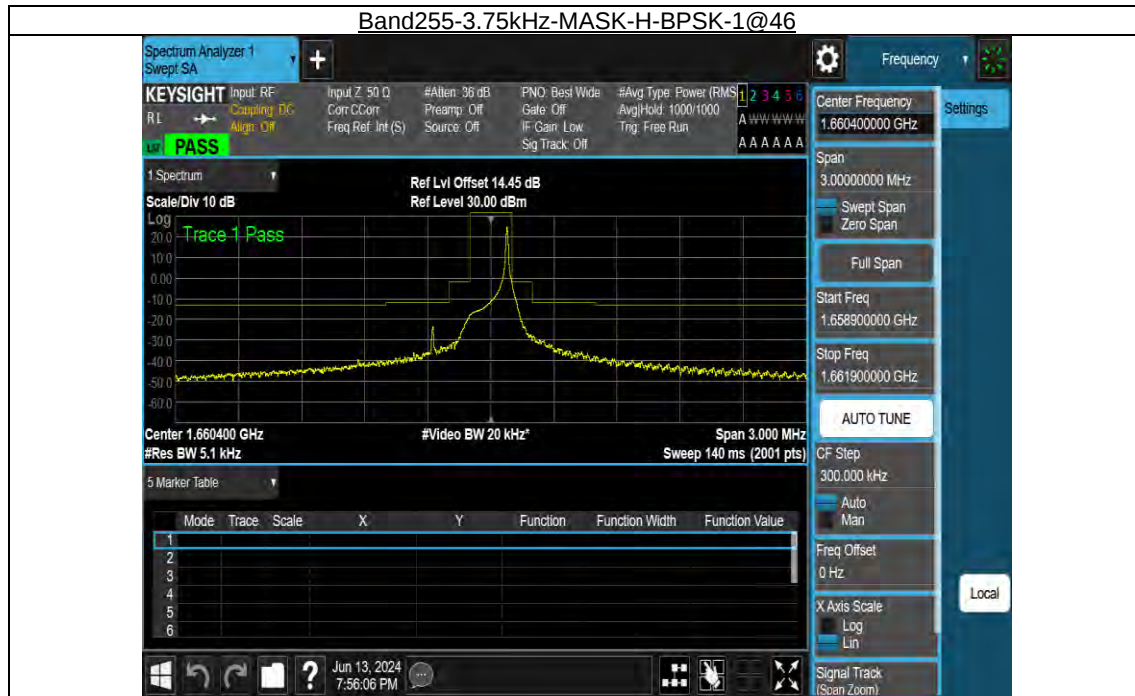
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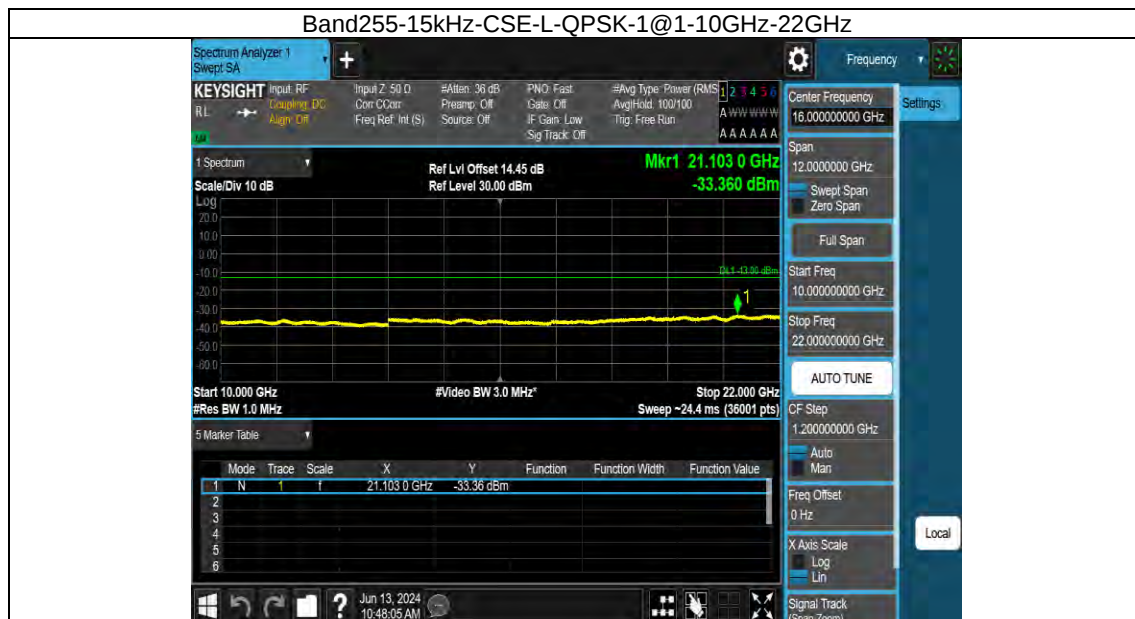
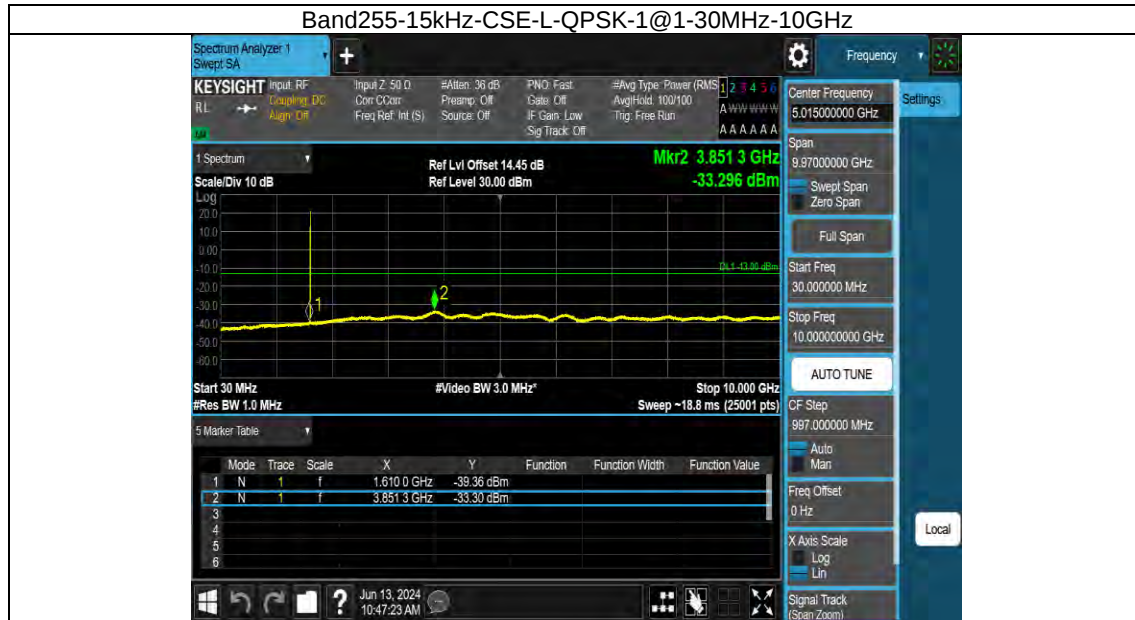
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Conducted spurious emissions test graph



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Band255-15kHz-CSE-L-BPSK-1@1-30MHz-10GHz



Band255-15kHz-CSE-L-BPSK-1@1-10GHz-22GHz



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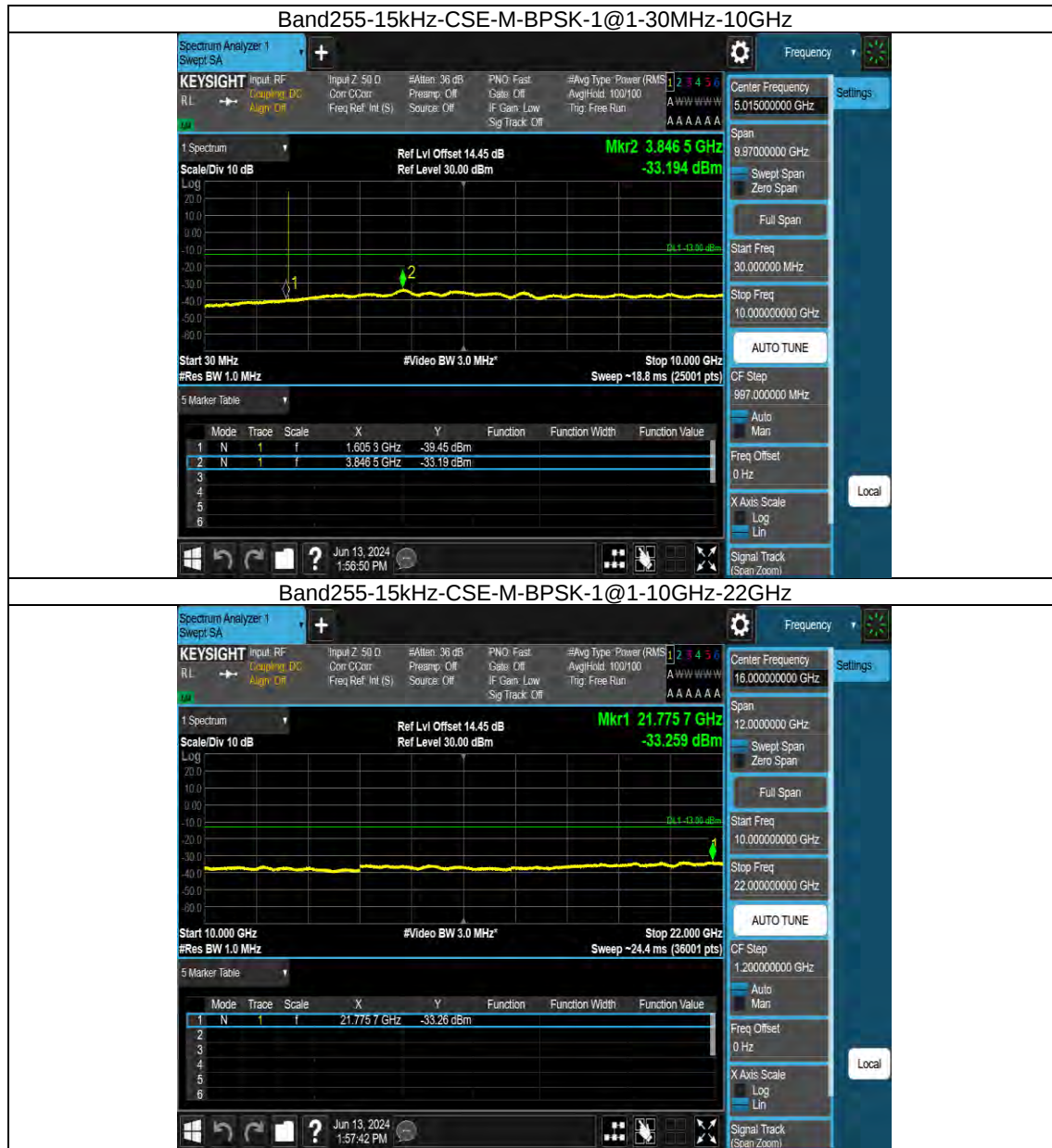
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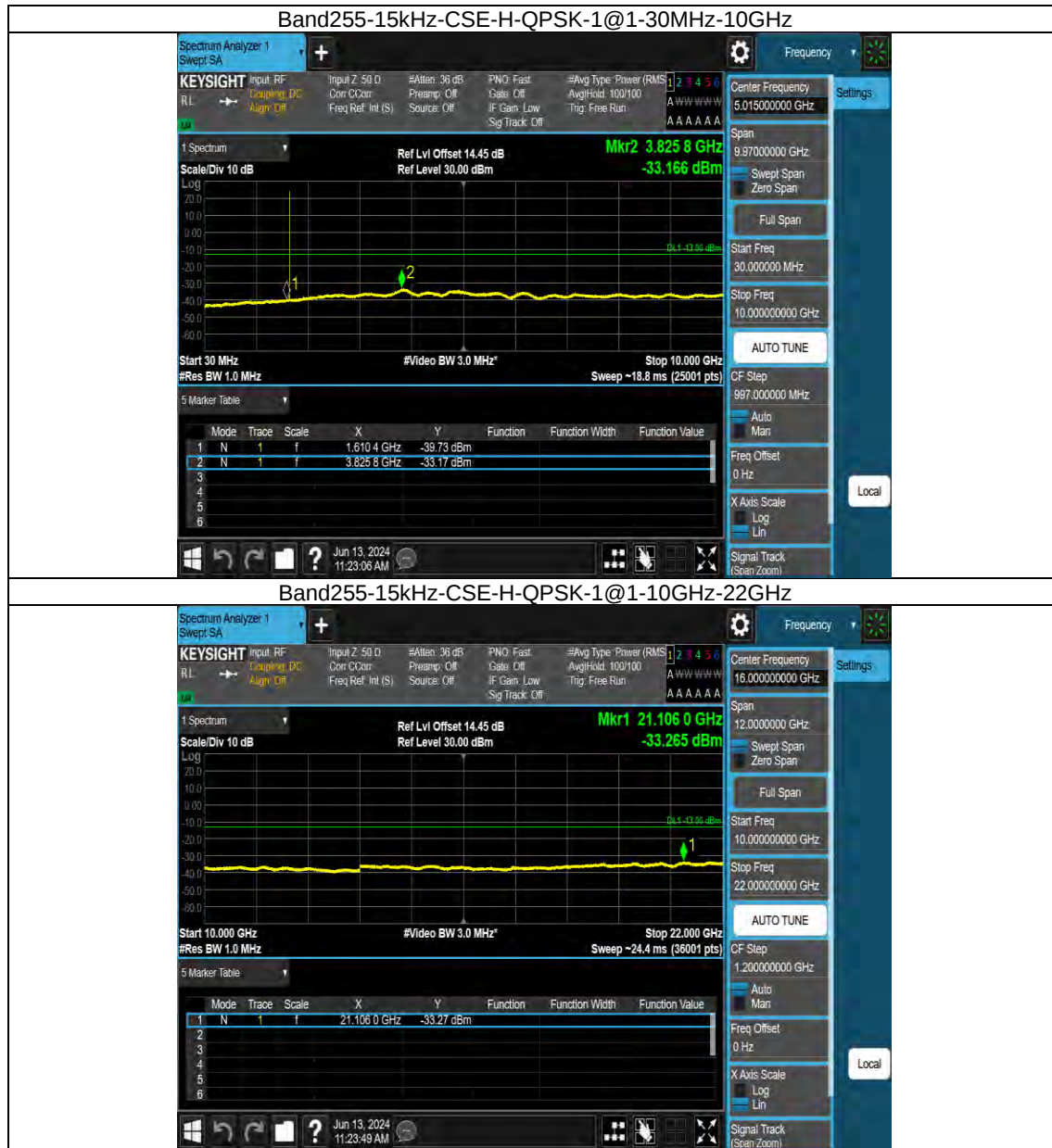


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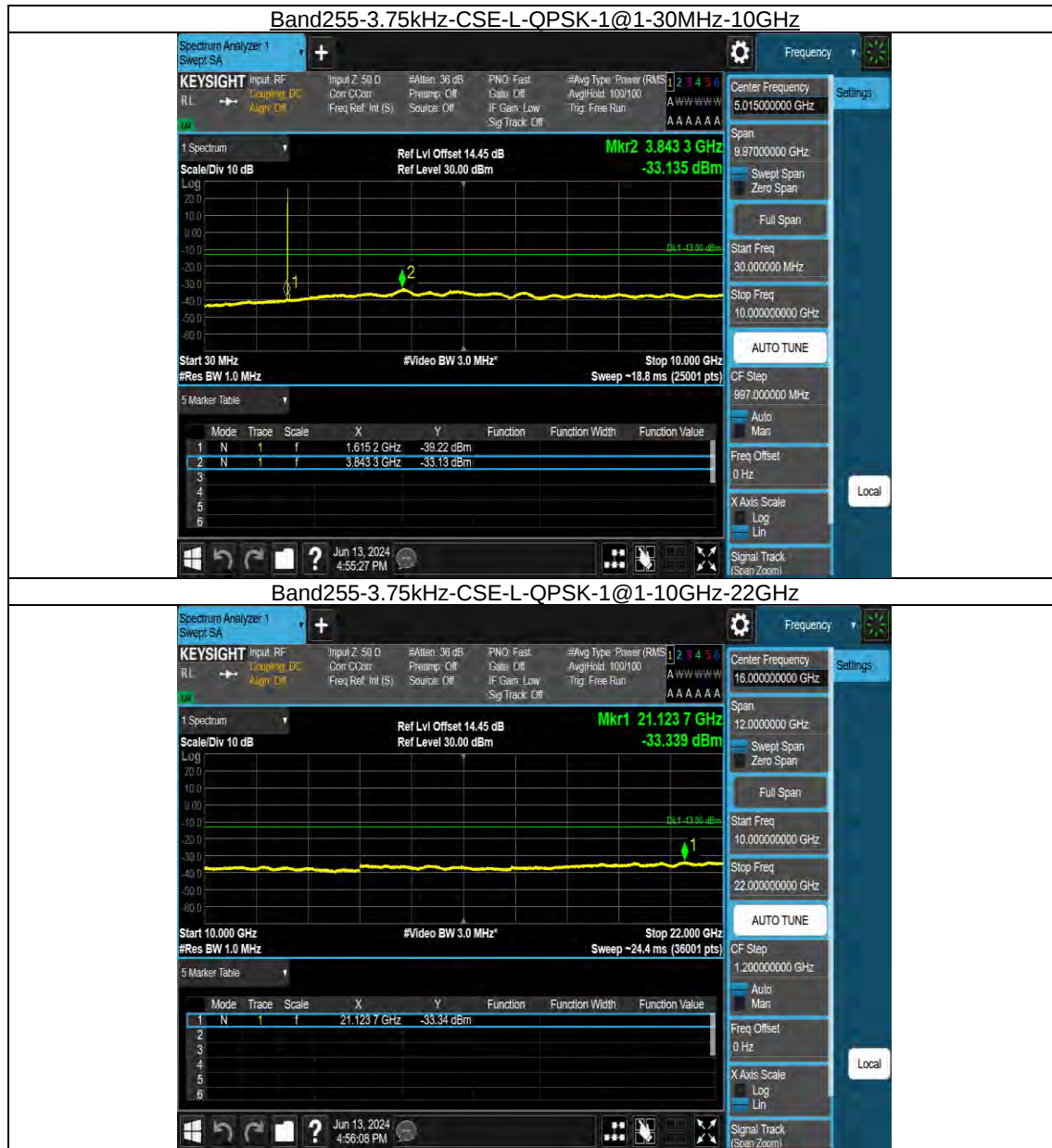
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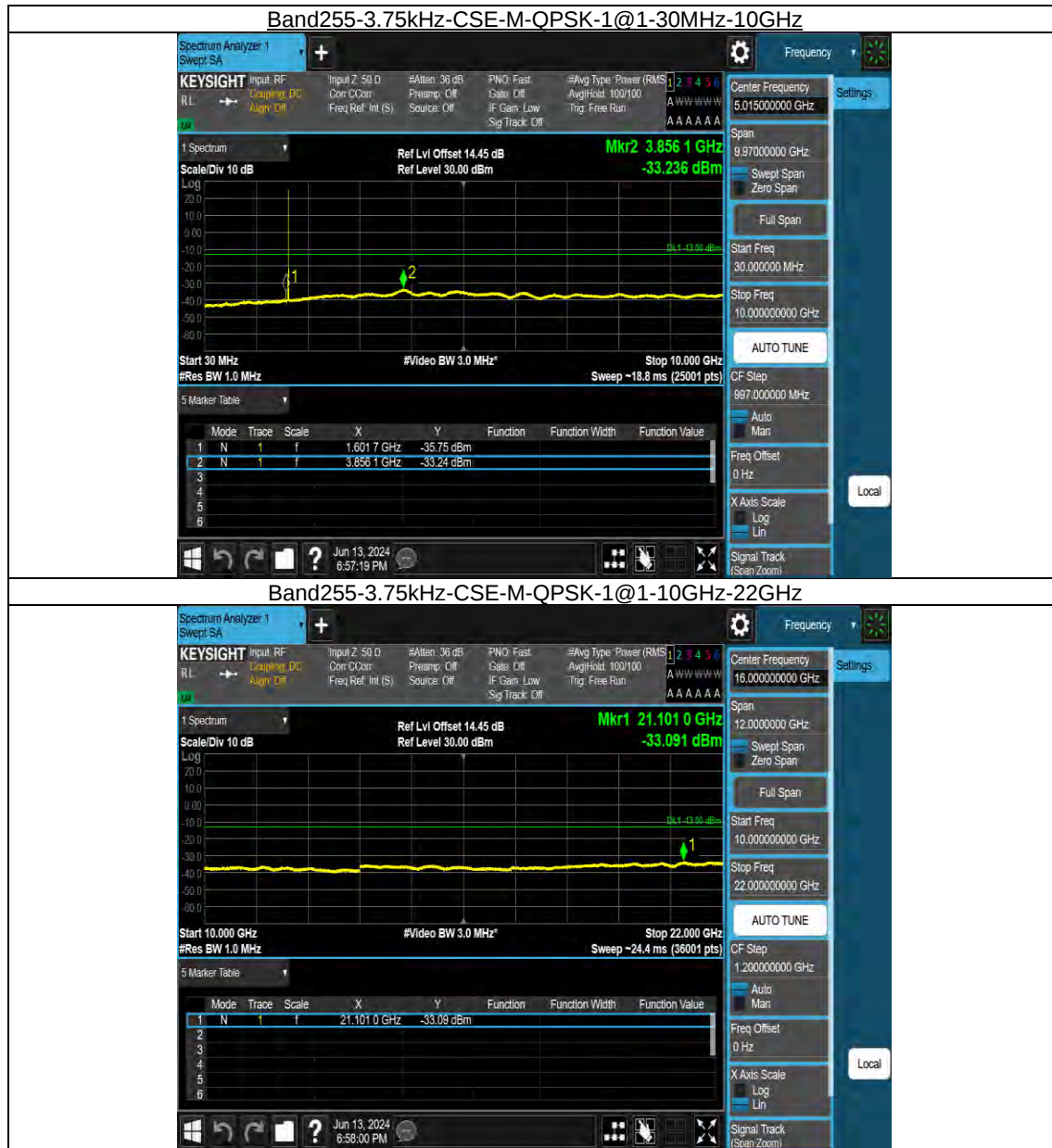
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Band255-3.75kHz-CSE-M-BPSK-1@1-30MHz-10GHz



Band255-3.75kHz-CSE-M-BPSK-1@1-10GHz-22GHz



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Band255-3.75kHz-CSE-H-QPSK-1@1-30MHz-10GHz



Band255-3.75kHz-CSE-H-QPSK-1@1-10GHz-22GHz



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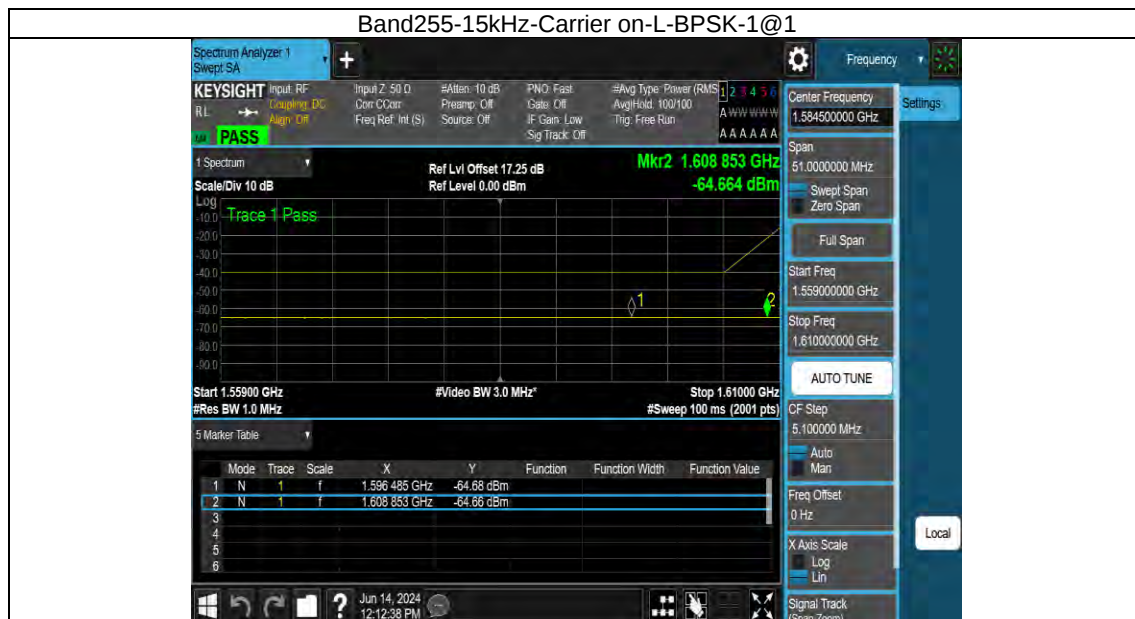
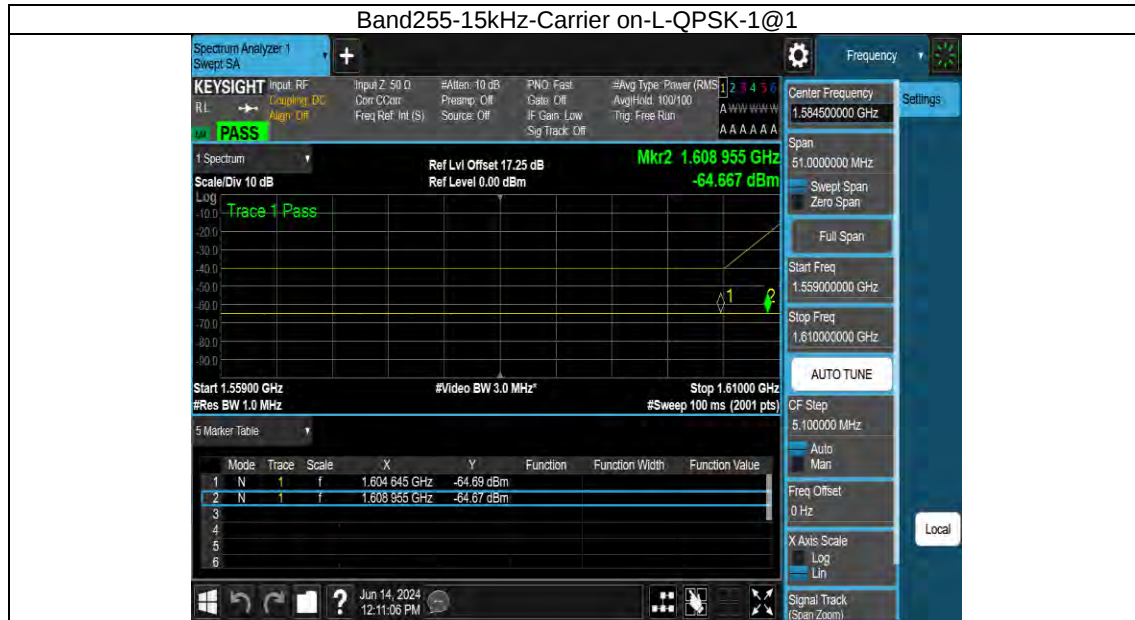
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Emission limits for protection of aeronautical service test graph



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Band255-15kHz-Carrier on-M-QPSK-1@1



Band255-15kHz-Carrier on-M-BPSK-1@1



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Band255-15kHz-Carrier on-H-QPSK-1@1



Band255-15kHz-Carrier on-H-BPSK-1@1



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Band255-15kHz-Carrier off-L-QPSK-1@1



Band255-15kHz-Carrier off-L-BPSK-1@1



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Band255-15kHz-Carrier off-M-QPSK-1@1



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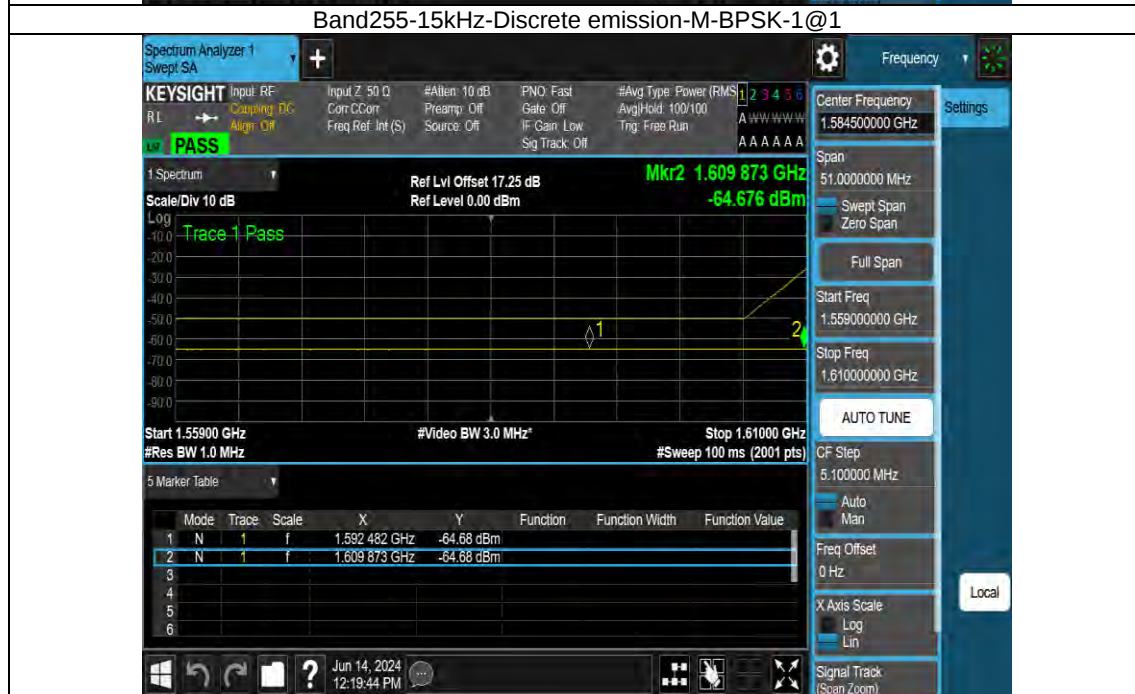
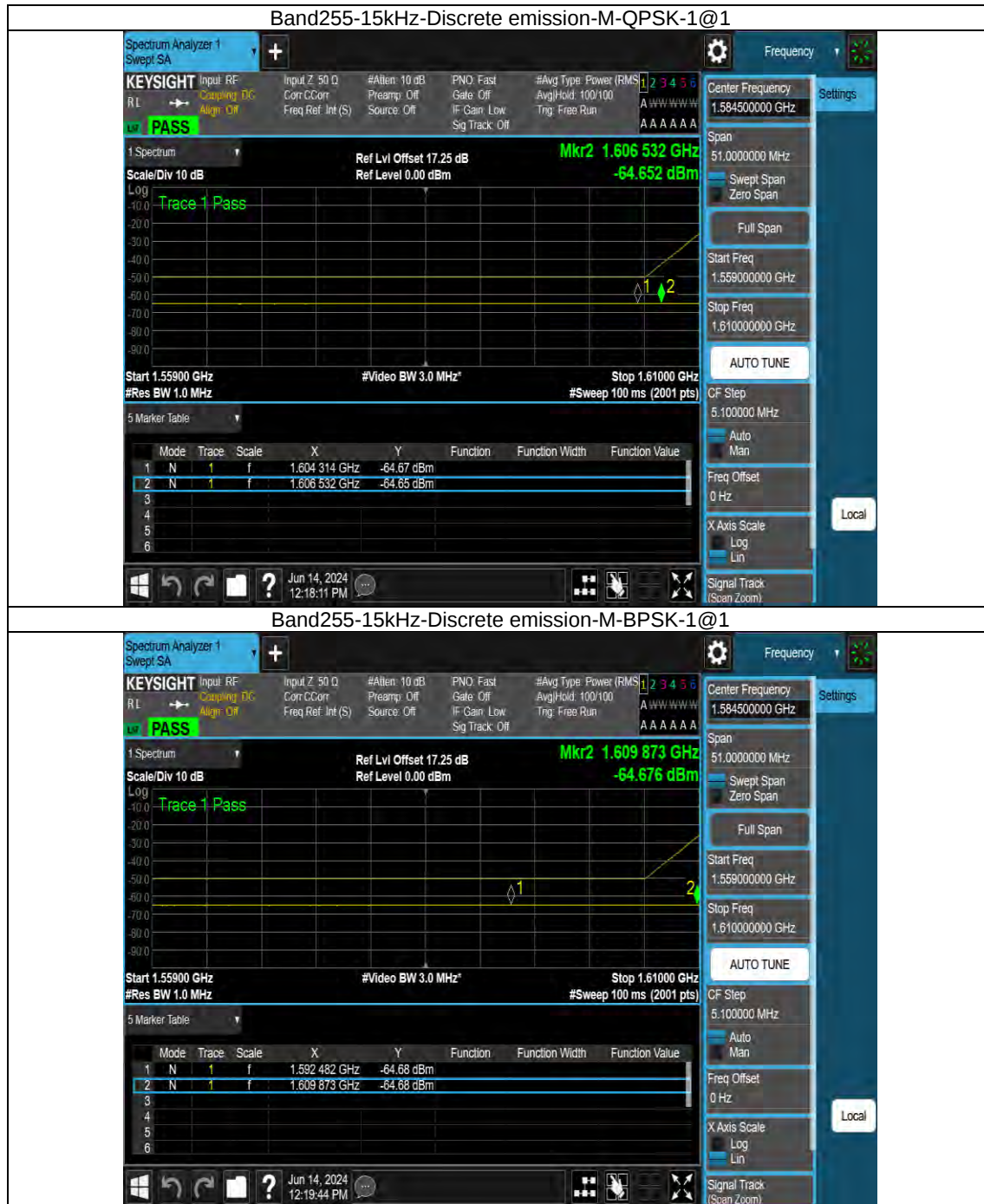
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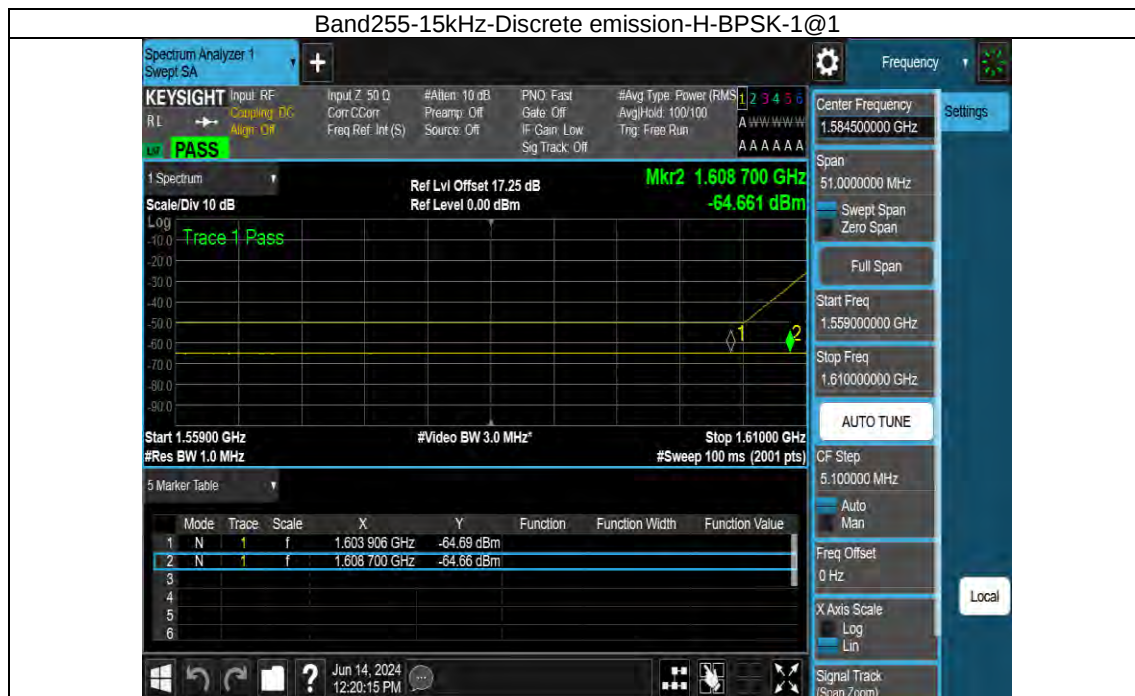
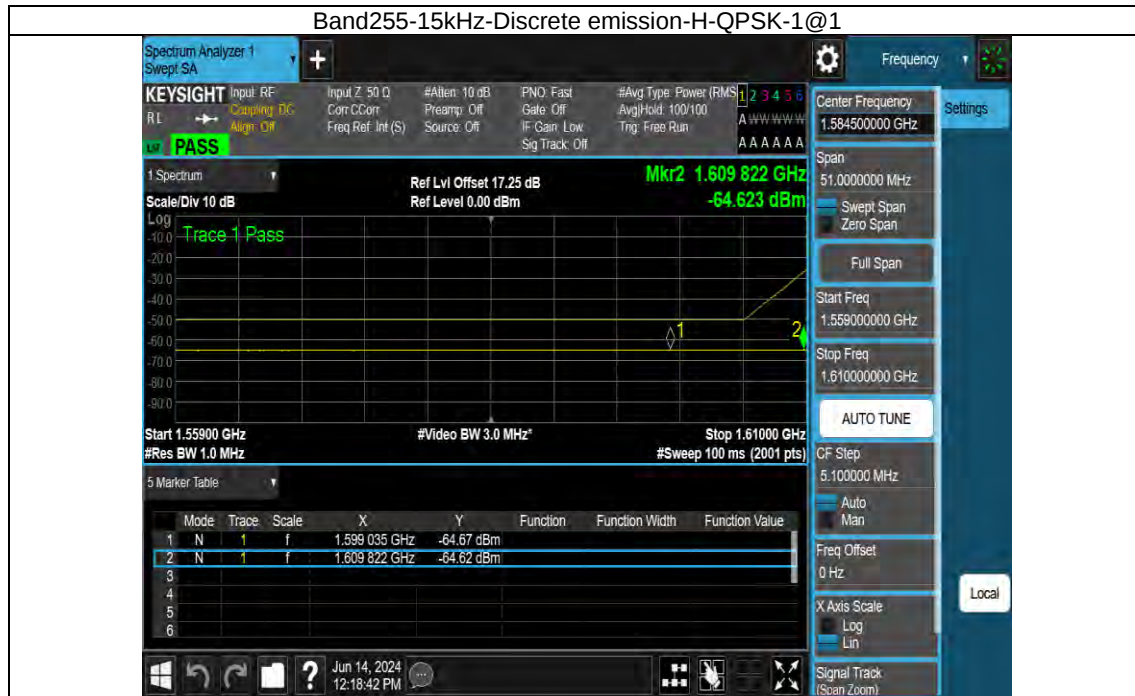
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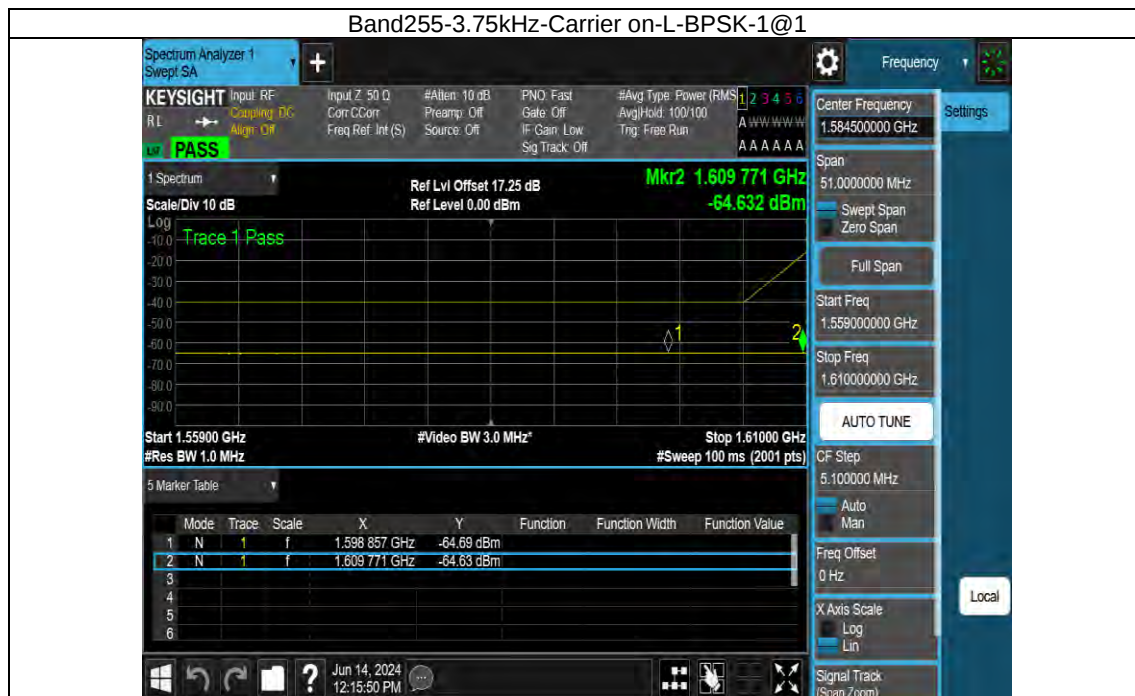
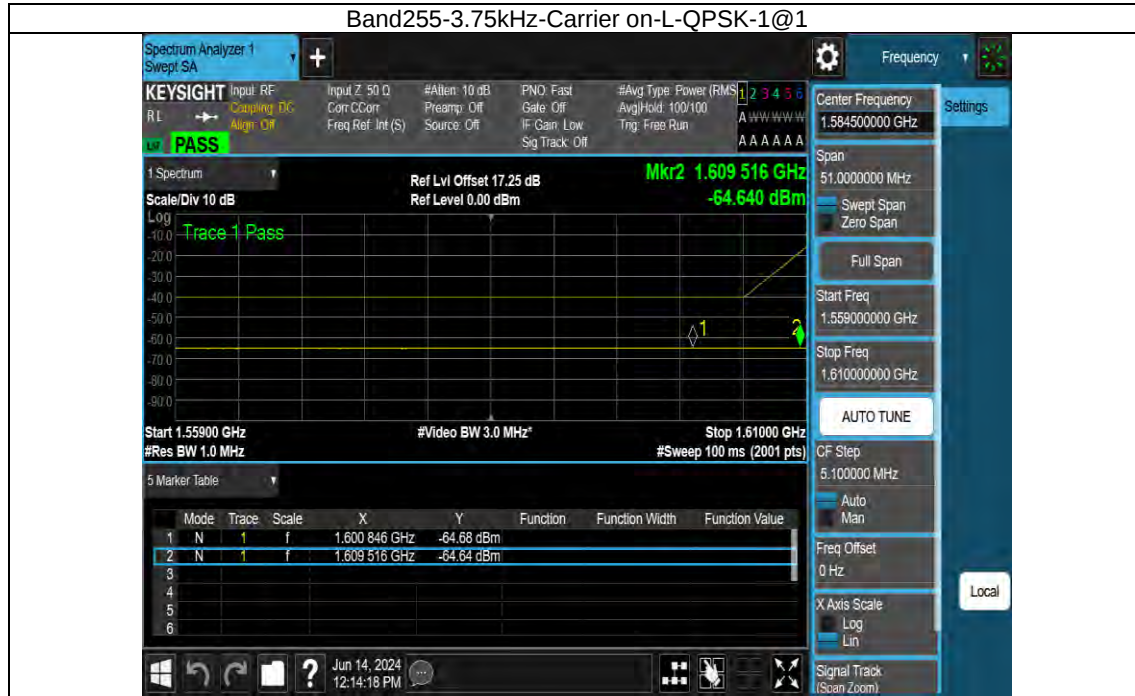
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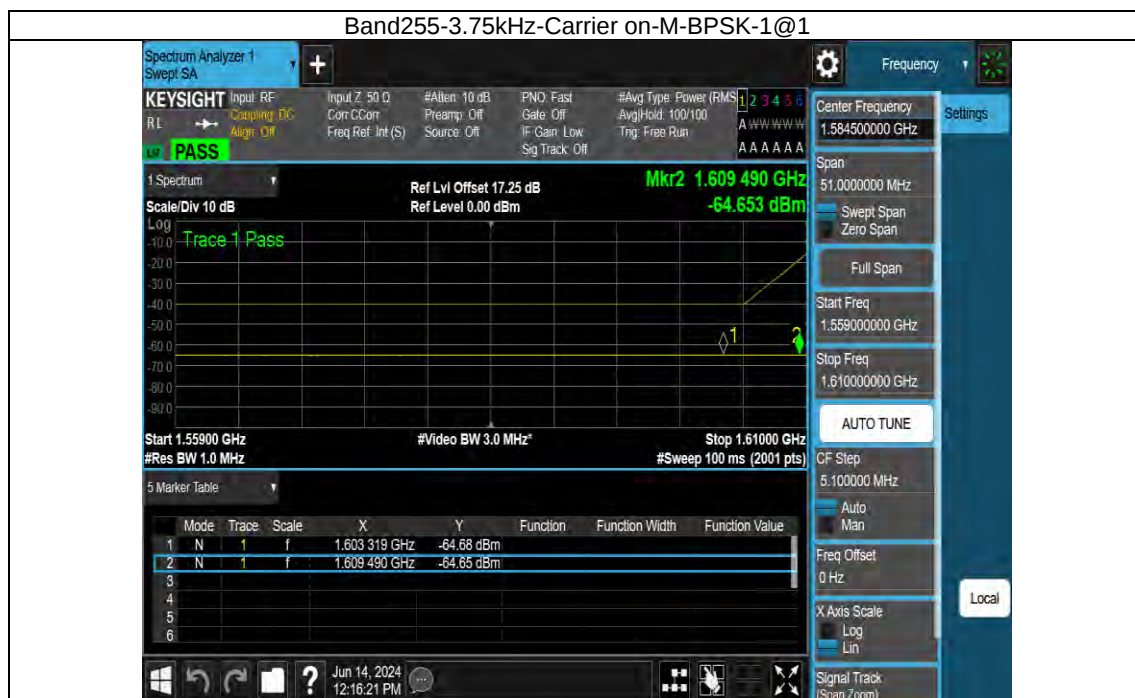
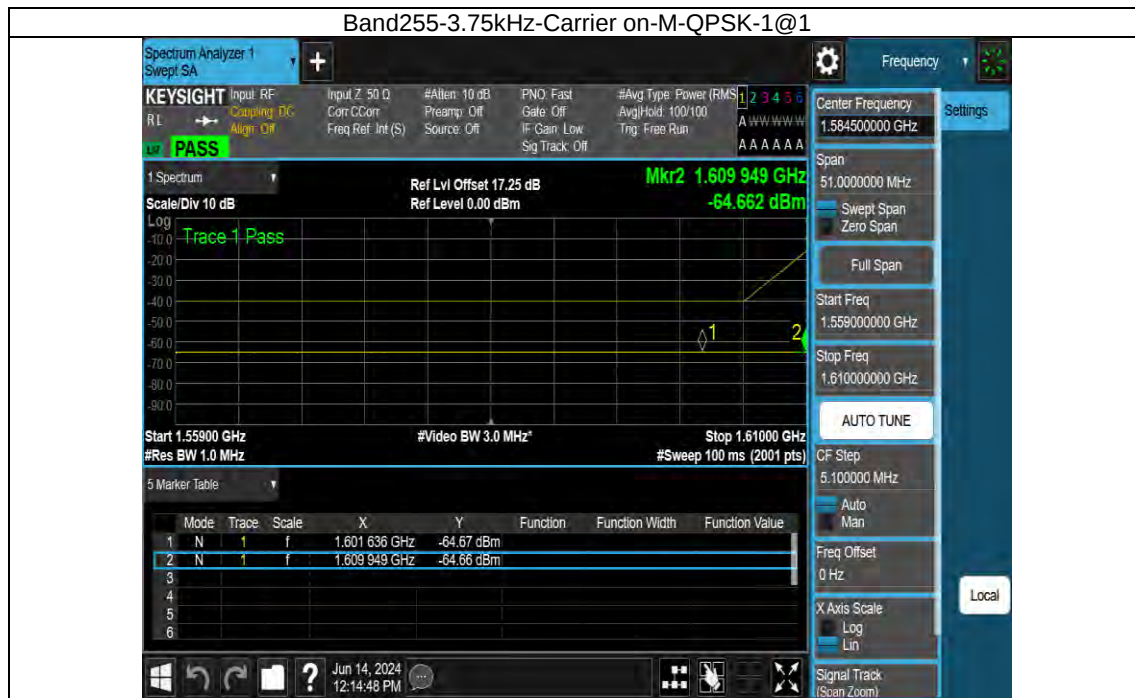


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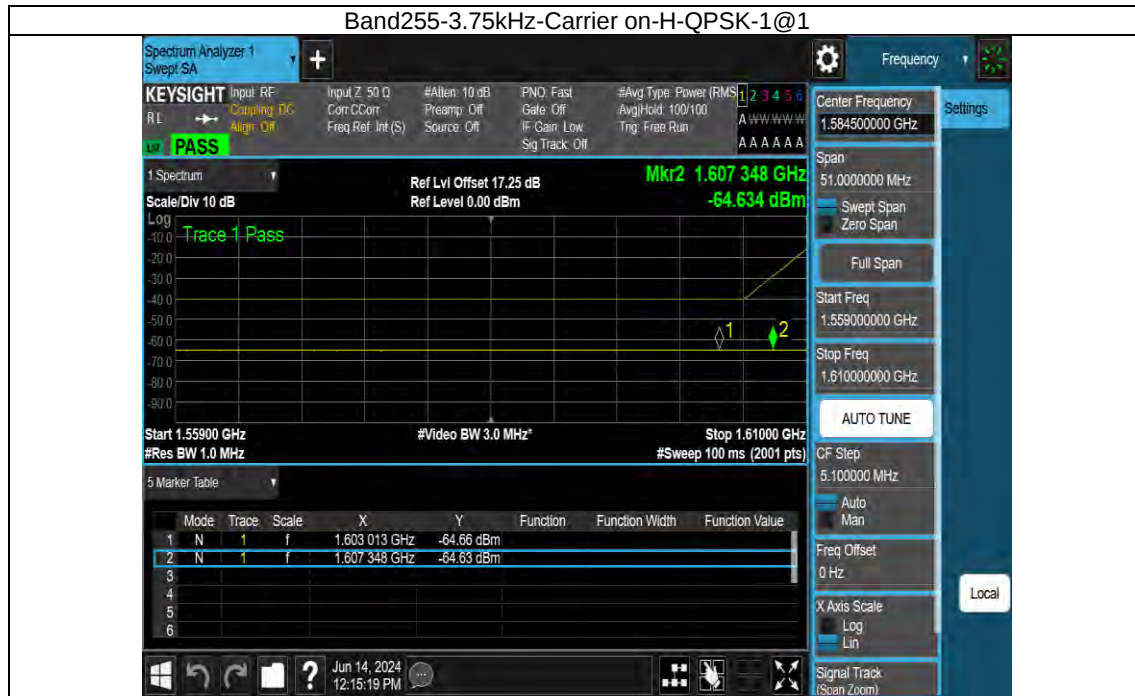
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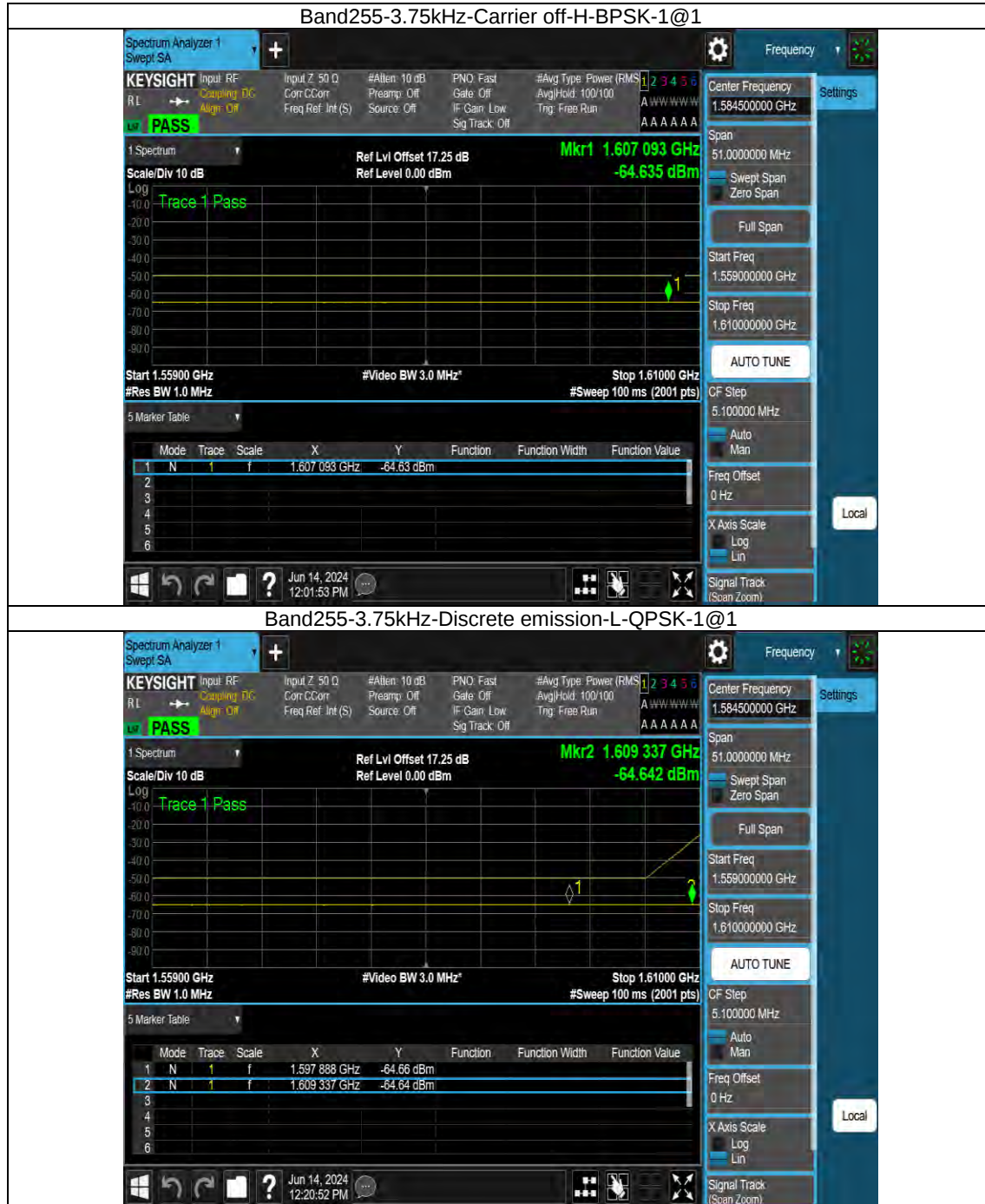
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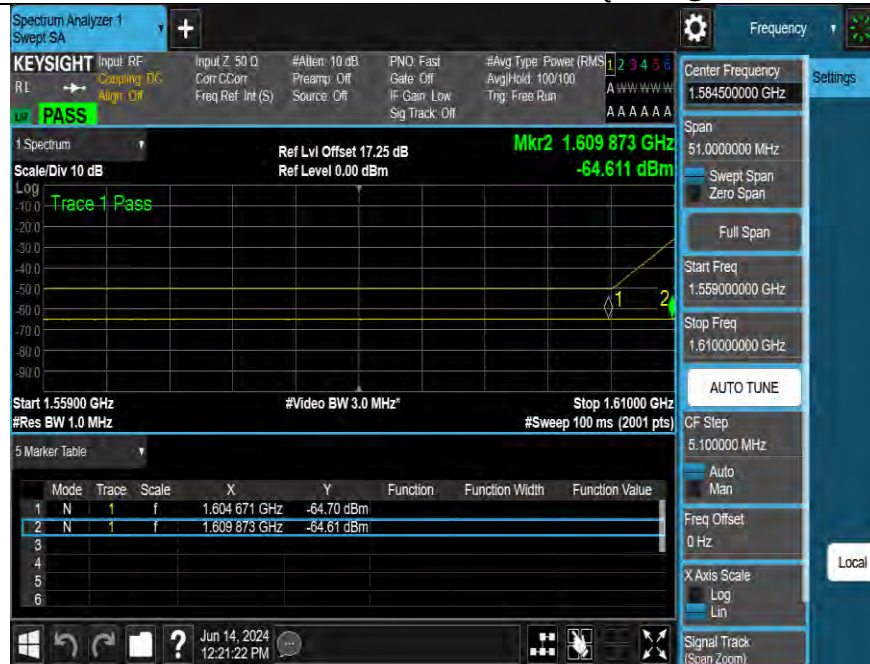
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Band255-3.75kHz-Discrete emission-L-BPSK-1@1



Band255-3.75kHz-Discrete emission-M-QPSK-1@1



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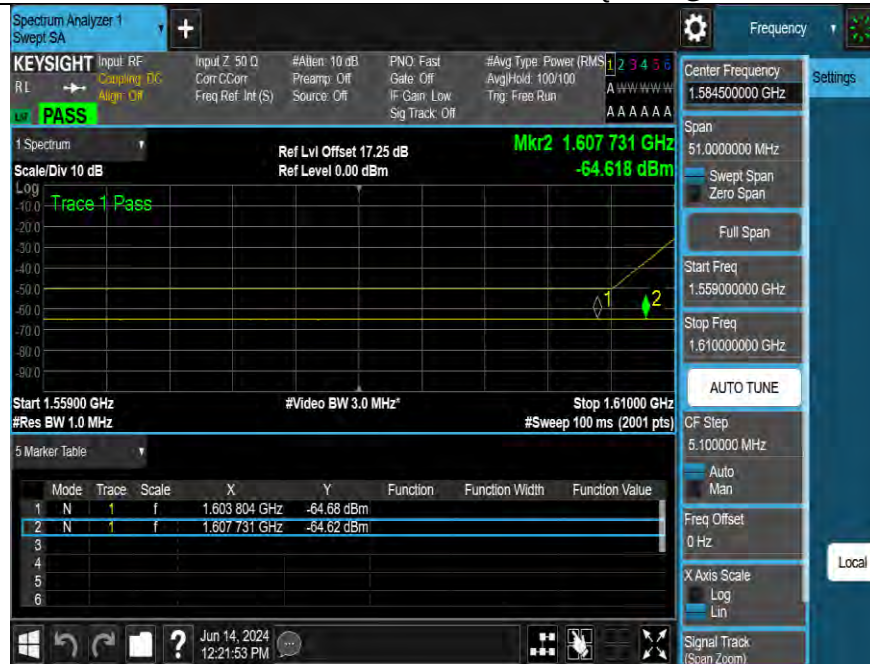
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Band255-3.75kHz-Discrete emission-M-BPSK-1@1



Band255-3.75kHz-Discrete emission-H-QPSK-1@1



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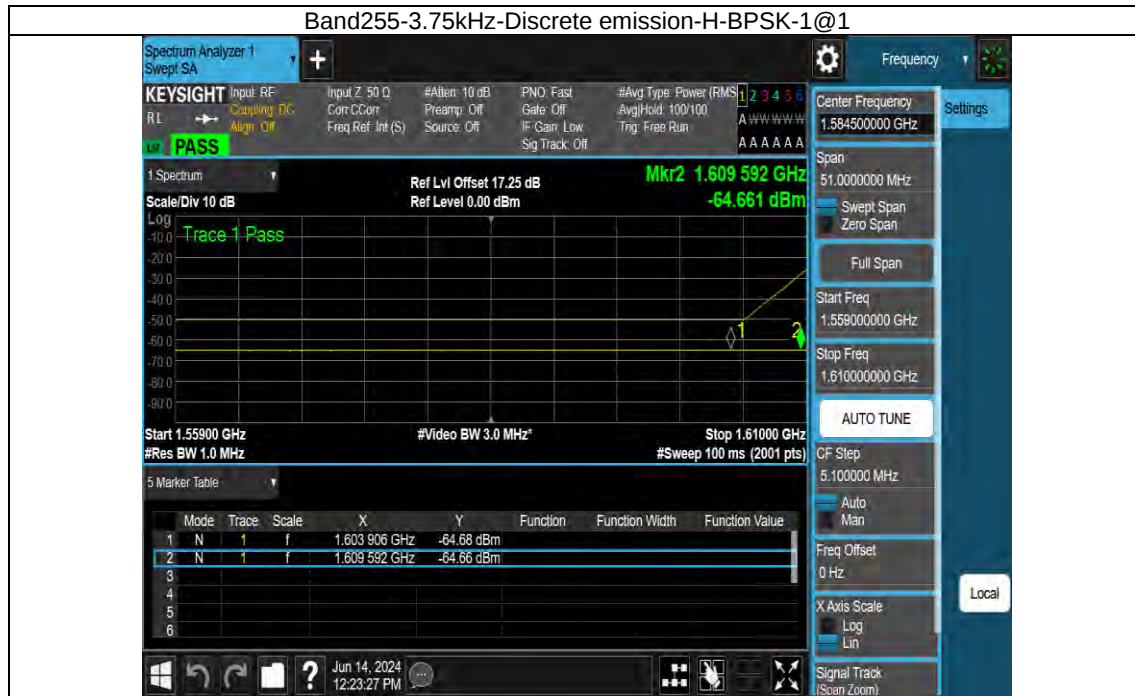
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Frequency stability

Test Conditions		Band 255 (QPSK) / Middle Channel	Limit
Temperature(°C)	Voltage (V)	Deviation (ppm)	Result
50	NV	0.0004	Pass
40	NV	0.0011	
30	NV	0.0010	
20(Ref.)	NV	0.0008	
10	NV	0.0009	
0	NV	0.0005	
-10	NV	0.0007	
-20	NV	0.0005	
-30	NV	0.0013	
20	HV	0.0023	
20	NV	0.0016	
20	LV	0.0015	



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