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Appendix B.3

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.06	23.04	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.07	23.05	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.19	23.17	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.22	22.20	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.11	23.09	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.11	23.09	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.15	23.13	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.22	22.20	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.08	23.06	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.21	23.19	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.09	23.07	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.10	22.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.36	22.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.36	22.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.59	22.57	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.24	21.22	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.27	22.25	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.39	22.37	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.52	22.50	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.29	21.27	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.33	22.31	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.24	22.22	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.38	22.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.26	21.24	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.17	23.15	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.06	23.04	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.21	23.19	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.19	22.17	38.45	PASS



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Band5	3MHz	QPSK	20525	1RB#0	23.23	23.21	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.32	23.30	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.19	23.17	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.25	22.23	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.13	23.11	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.21	23.19	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.19	23.17	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.18	22.16	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.48	22.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.63	22.61	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.36	22.34	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.25	21.23	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.56	22.54	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.64	22.62	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.45	22.43	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.33	21.31	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.57	22.55	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.41	22.39	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.32	22.30	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.28	21.26	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.22	23.20	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.24	23.22	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.16	23.14	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.26	22.24	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.28	23.26	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.30	23.28	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.23	23.21	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.24	22.22	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.32	23.30	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.29	23.27	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.21	23.19	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.27	22.25	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.70	22.68	38.45	PASS



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Band5	5MHz	16QAM	20425	1RB#12	22.50	22.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.64	22.62	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.20	21.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.58	22.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.53	22.51	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.63	22.61	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.35	21.33	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.46	22.44	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.61	22.59	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.46	22.44	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.20	21.18	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.47	23.45	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.30	23.28	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.59	23.57	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.27	22.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.22	23.20	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.04	23.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.50	23.48	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.24	22.22	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.36	23.34	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.28	23.26	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.53	23.51	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.43	22.41	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.71	22.69	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.54	22.52	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.91	22.89	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.31	21.29	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.63	22.61	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.46	22.44	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.72	22.70	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.25	21.23	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.70	22.68	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.77	22.75	38.45	PASS



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Band5	10MHz	16QAM	20600	1RB#49	22.61	22.59	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.55	21.53	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	6.66	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	6.64	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	6.68	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	7.22	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	7.18	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	7.26	13	PASS



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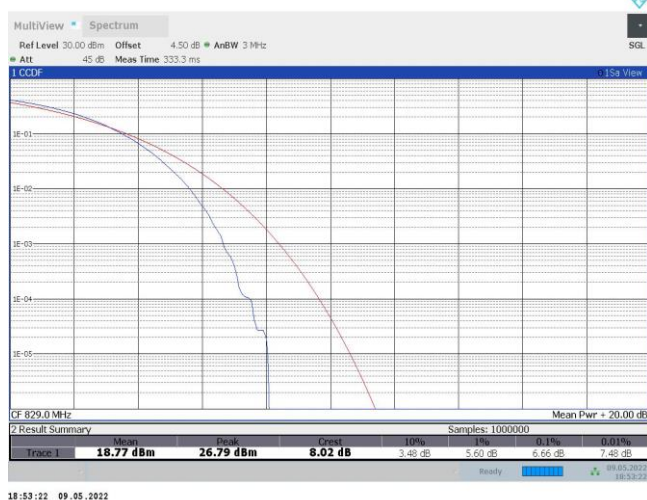
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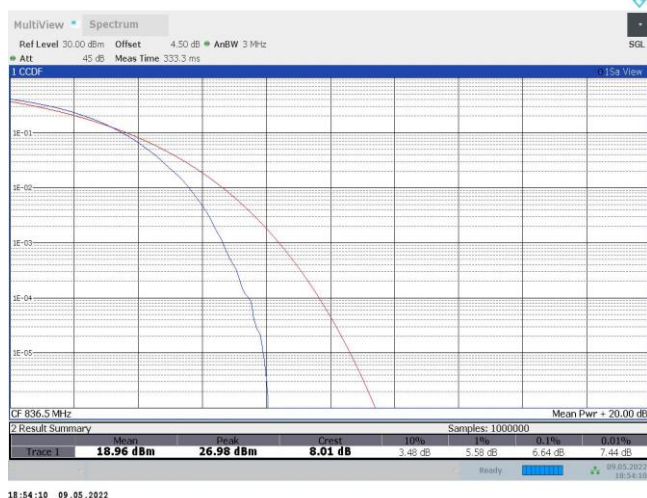
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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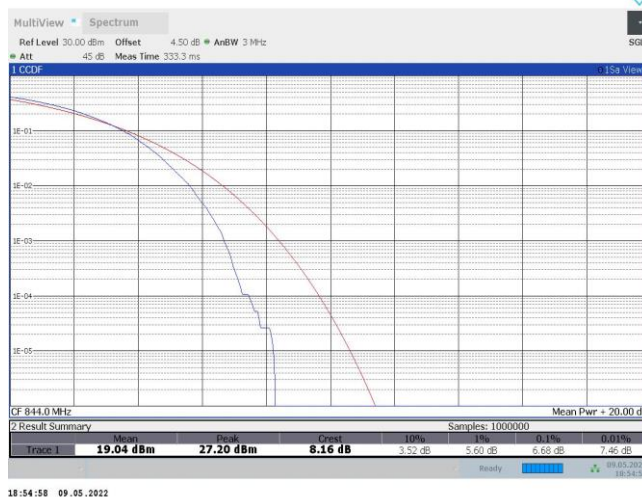
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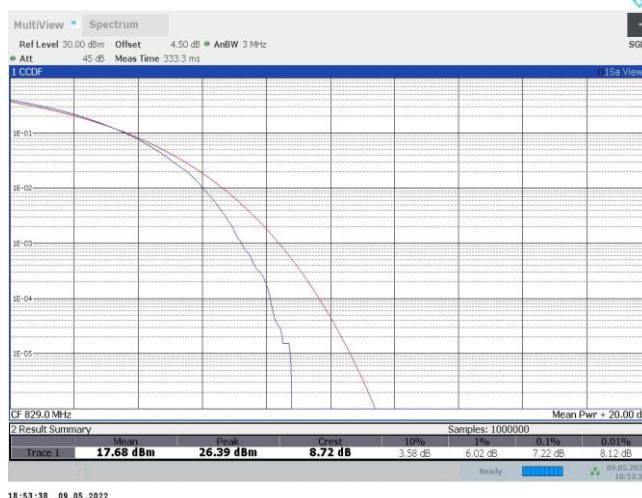
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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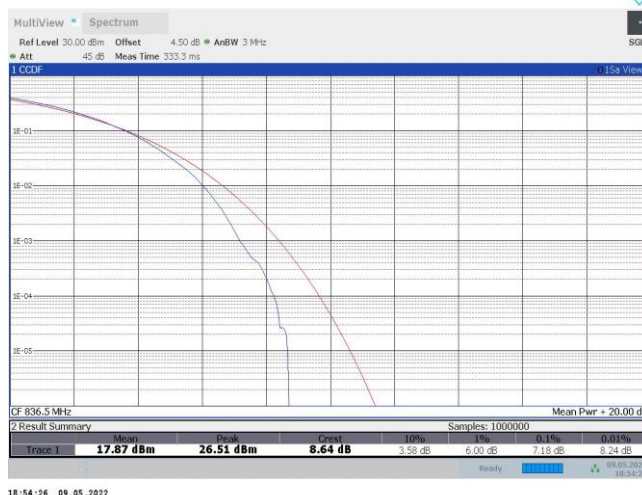
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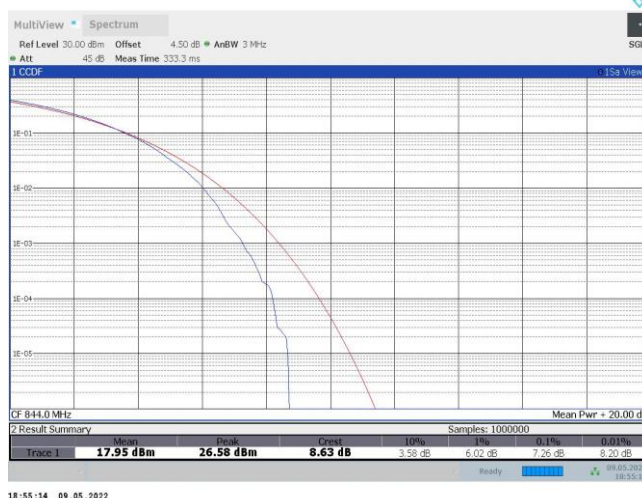
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS



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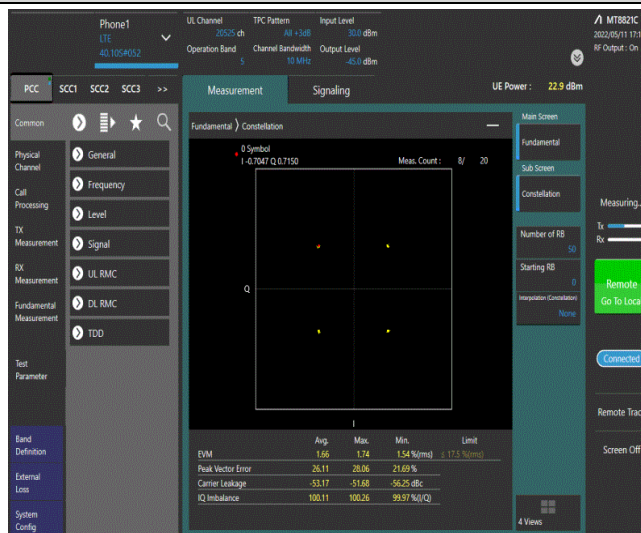
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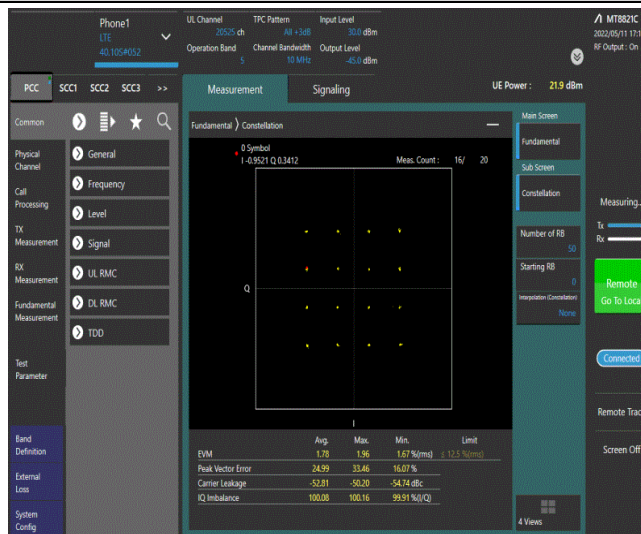
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Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.09	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.09	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.089	1.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.095	1.29	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.29	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.29	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.701	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	2.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.96	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.689	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.69	2.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.69	2.98	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.473	4.92	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.473	4.92	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.469	4.91	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.469	4.94	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.465	4.91	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.465	4.92	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.934	9.72	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.933	9.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.93	9.74	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.912	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.914	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.907	9.70	PASS



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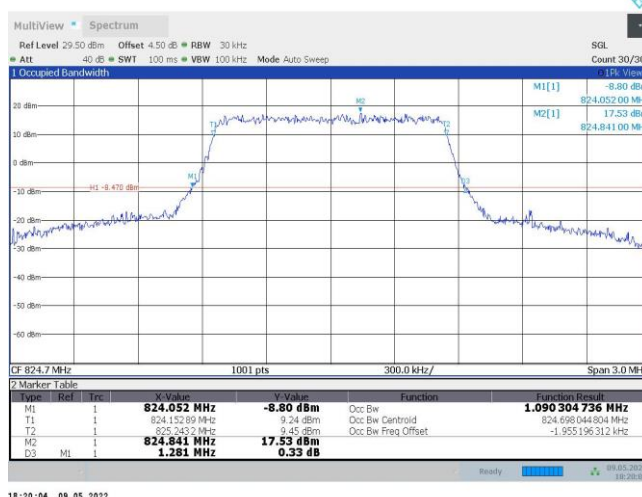
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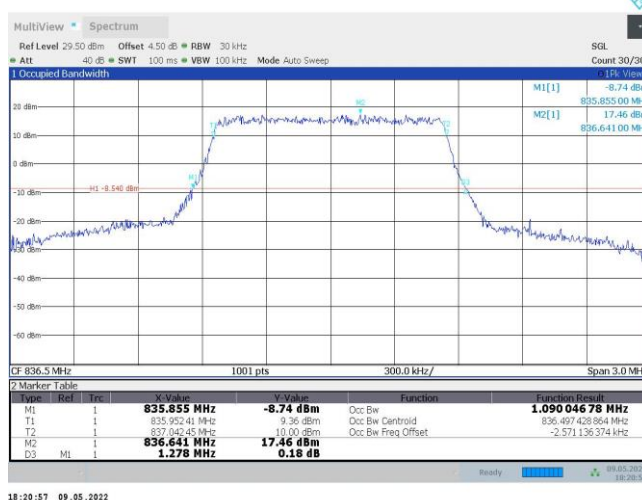
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Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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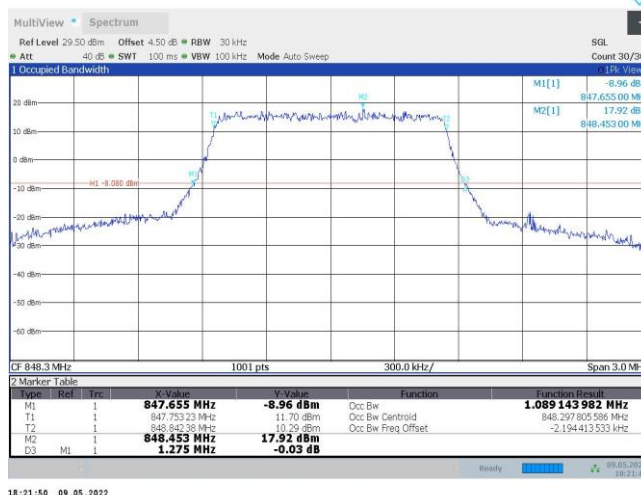
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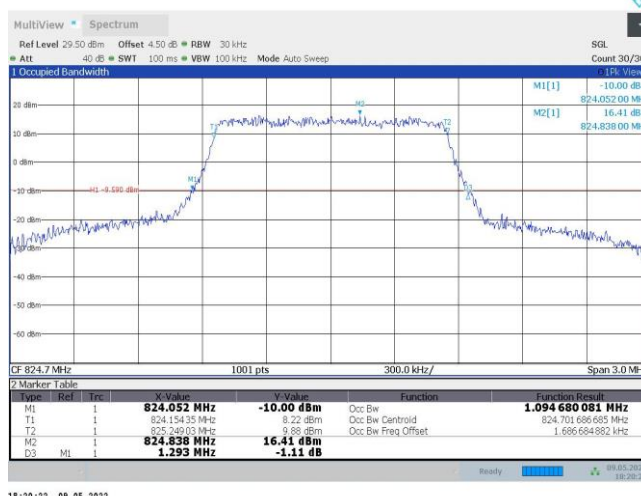
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Band5-1.4MHz-16QAM-20407-6RB#0



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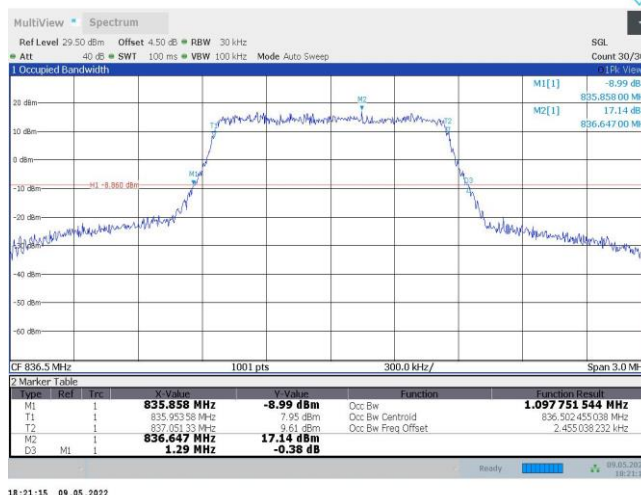
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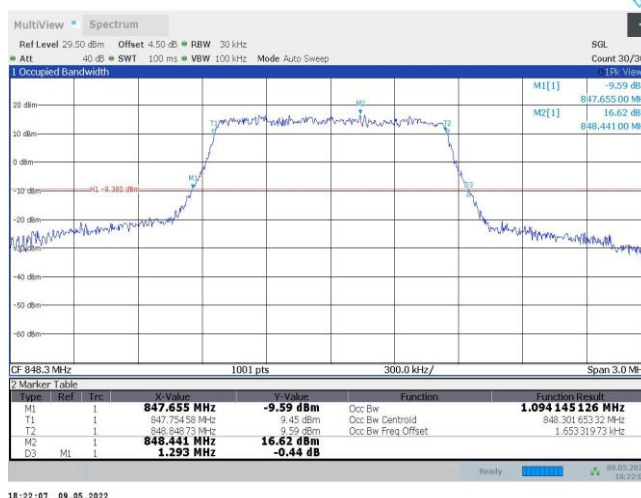
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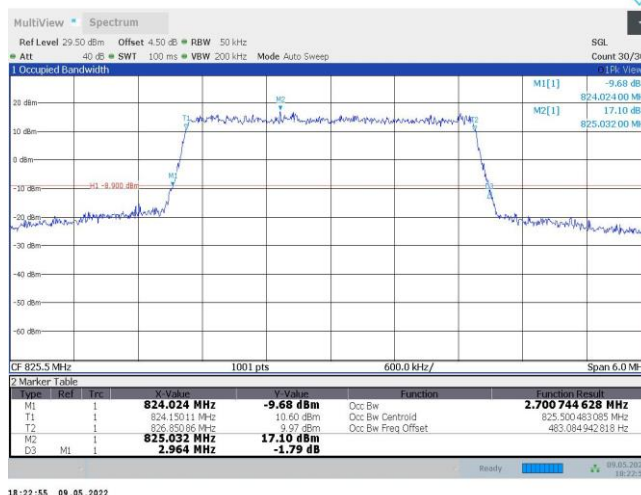
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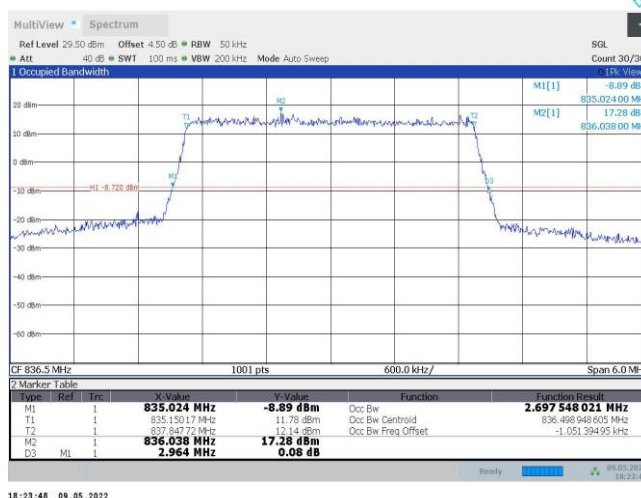
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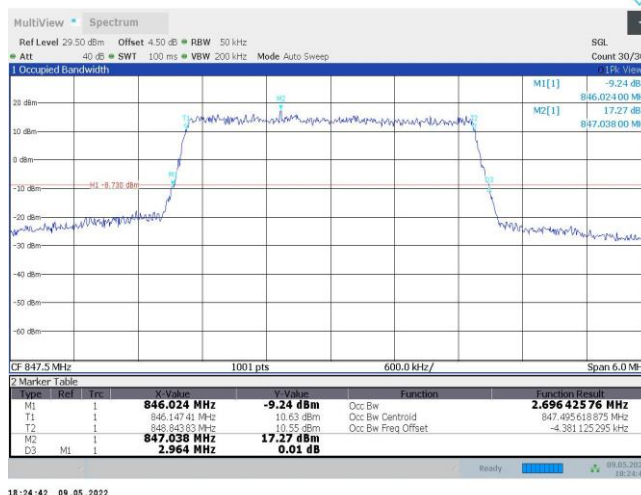
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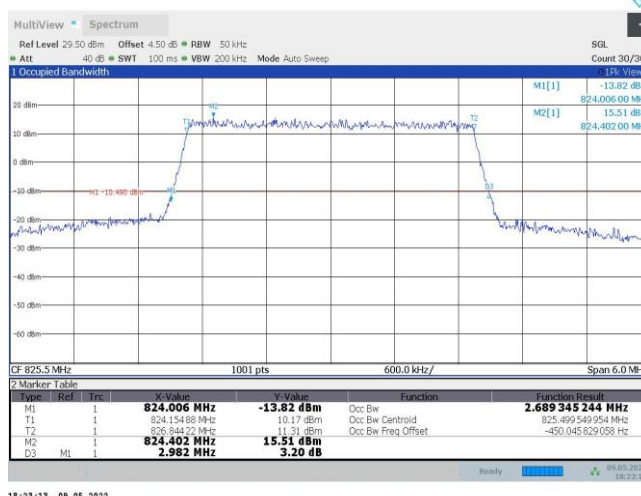
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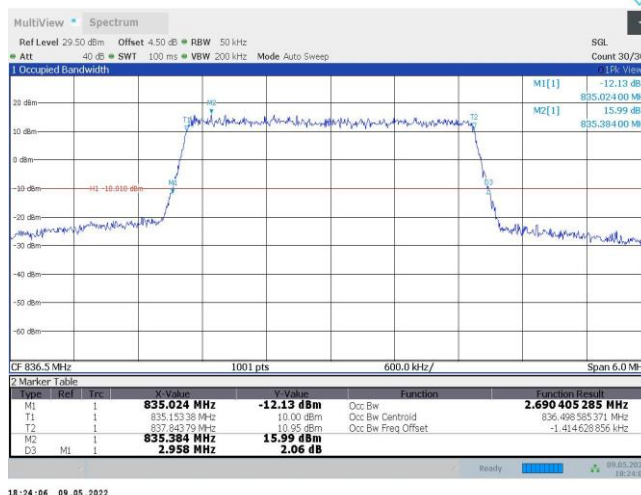
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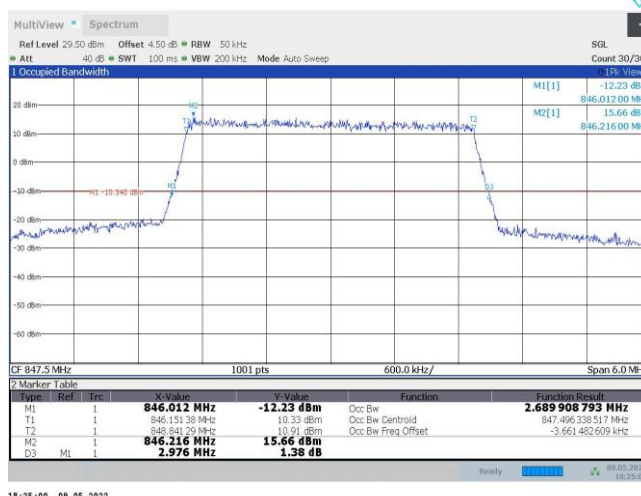
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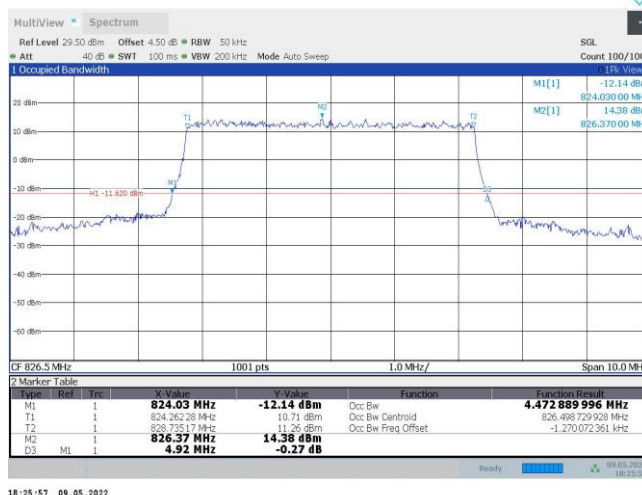
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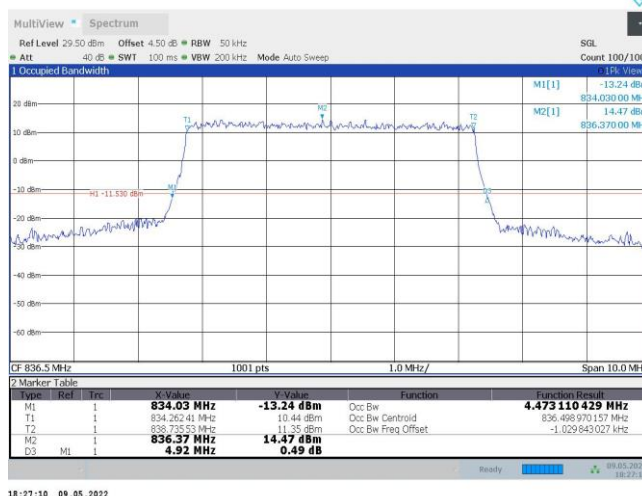
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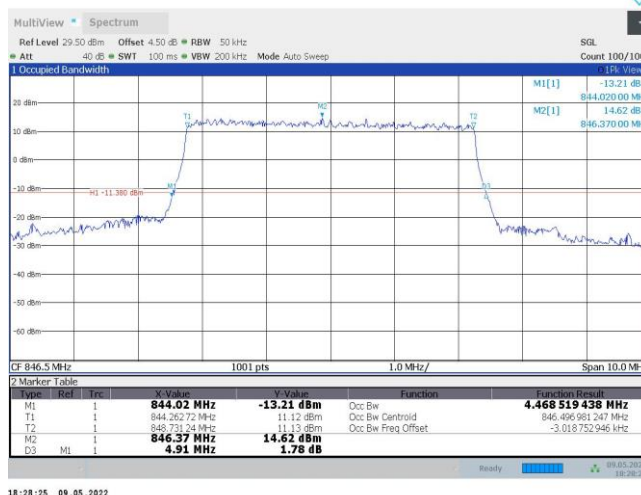
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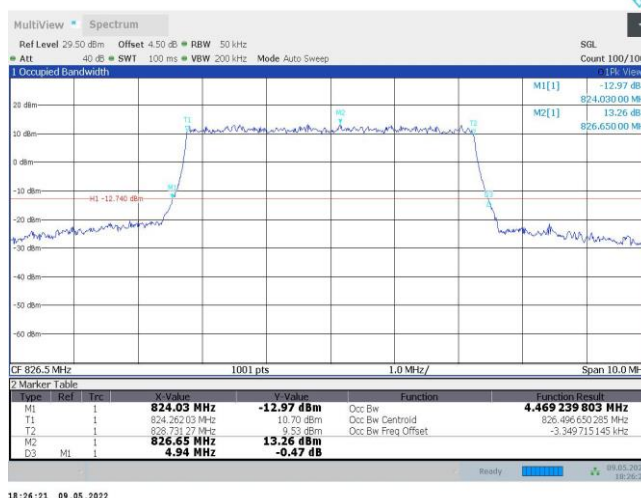
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Band5-5MHz-QPSK-20625-25RB#0



Band5-5MHz-16QAM-20425-25RB#0



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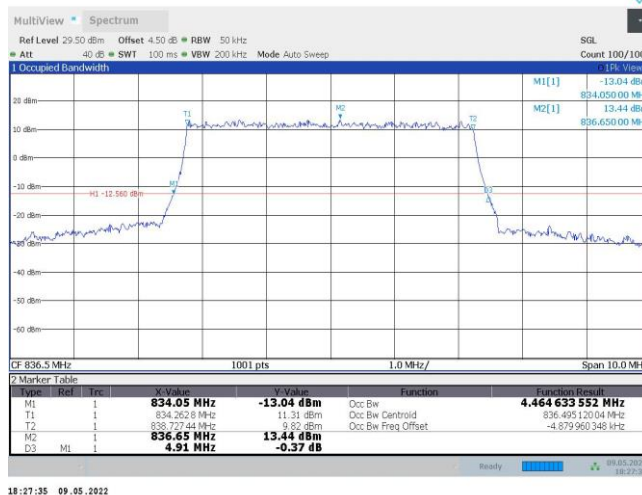
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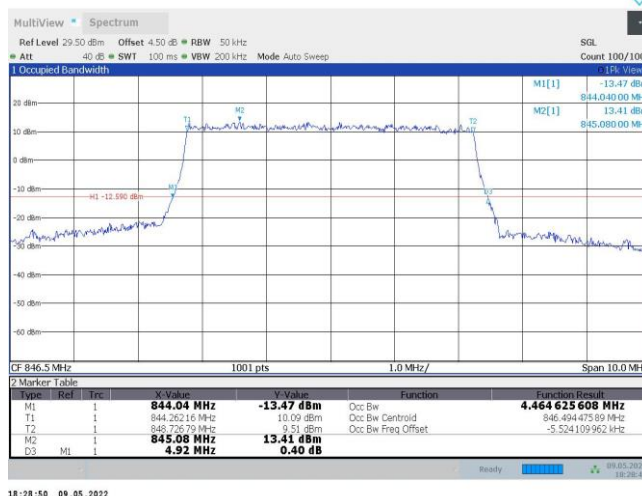
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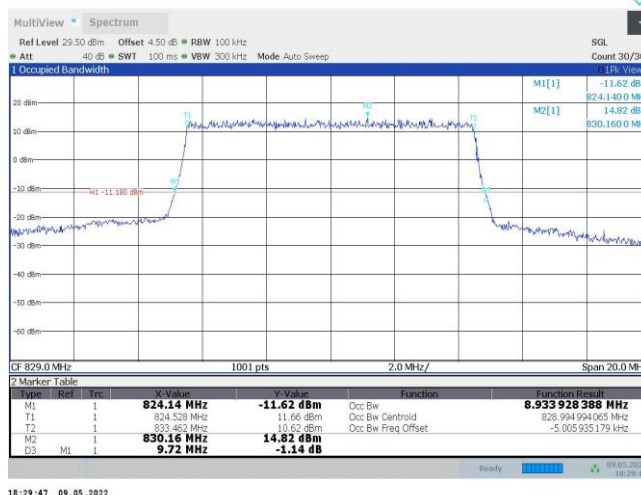
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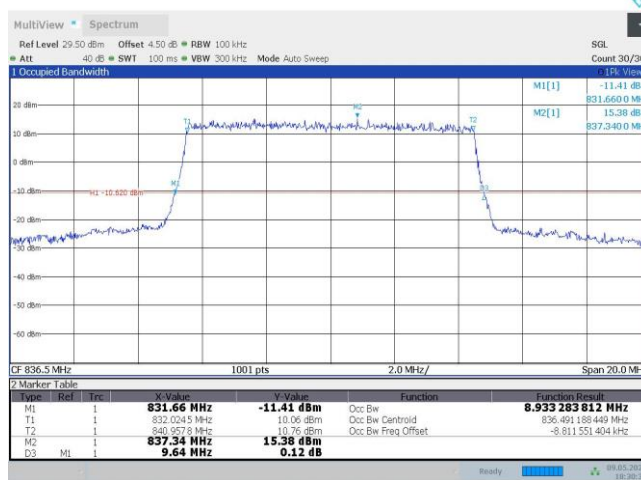
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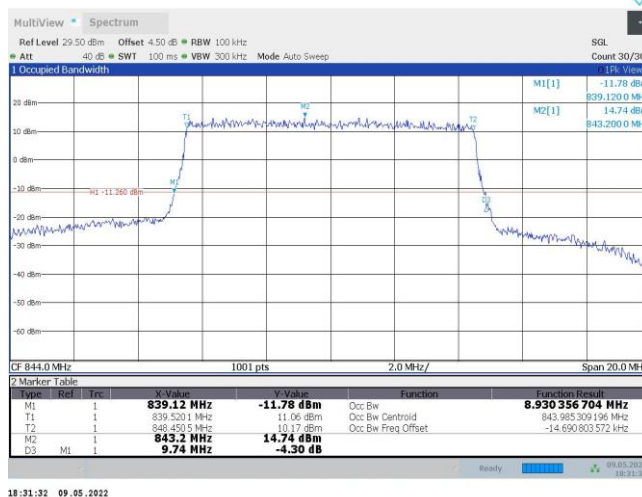
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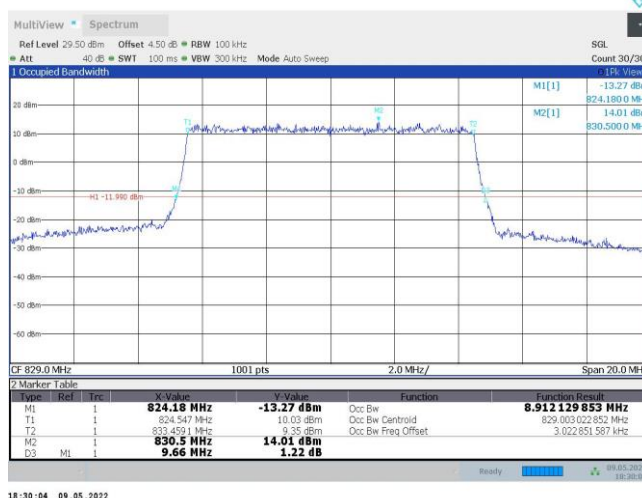
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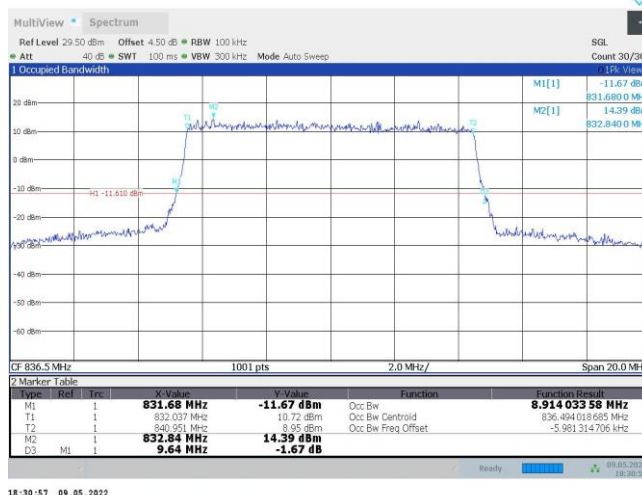
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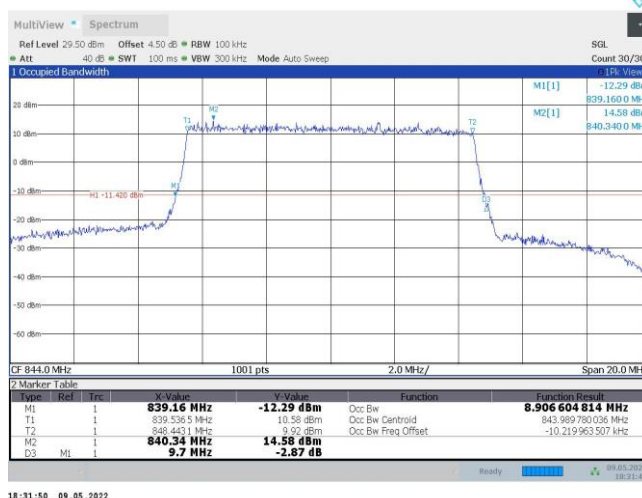
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Band Edge

Test Graphs

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Band5-1.4MHz-QPSK-20427-6RB#0



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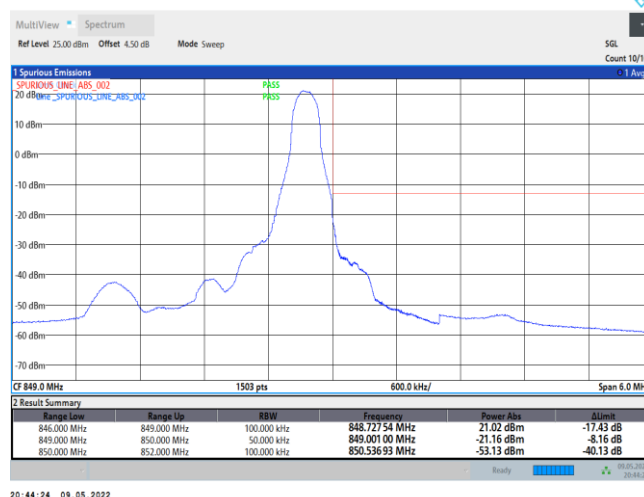
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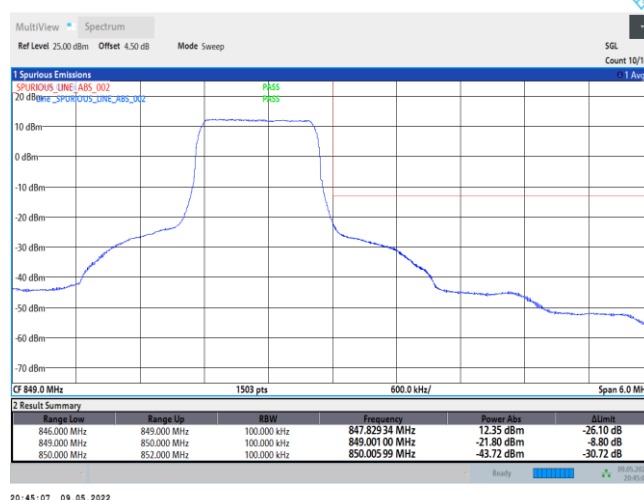
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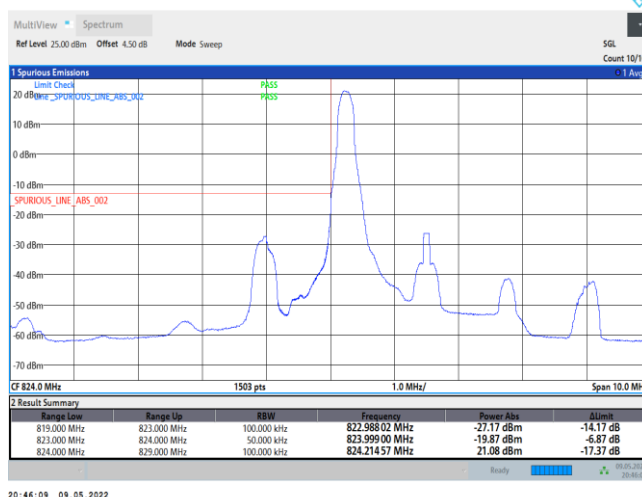
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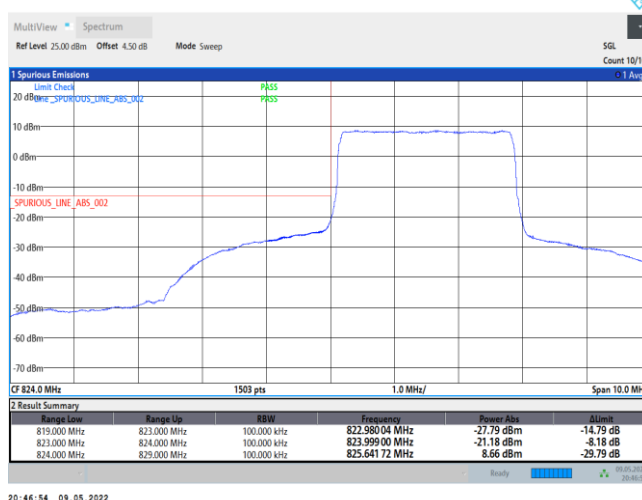
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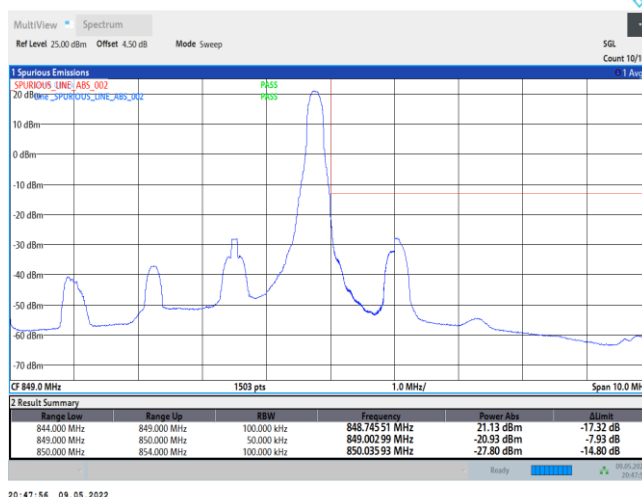
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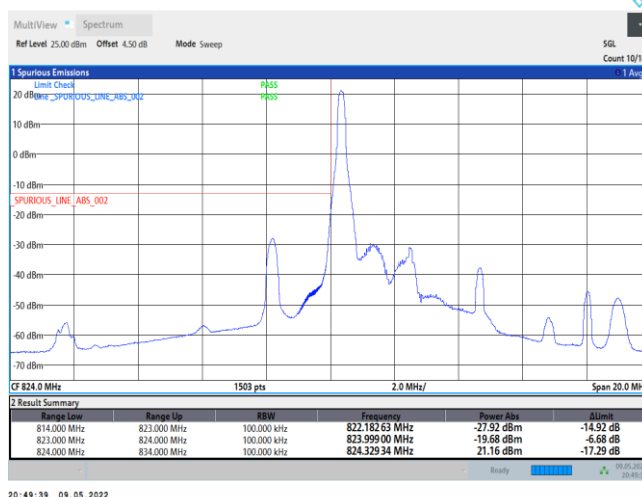
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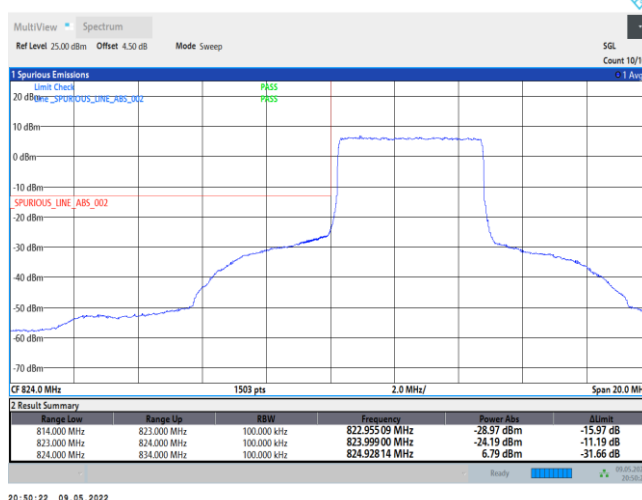
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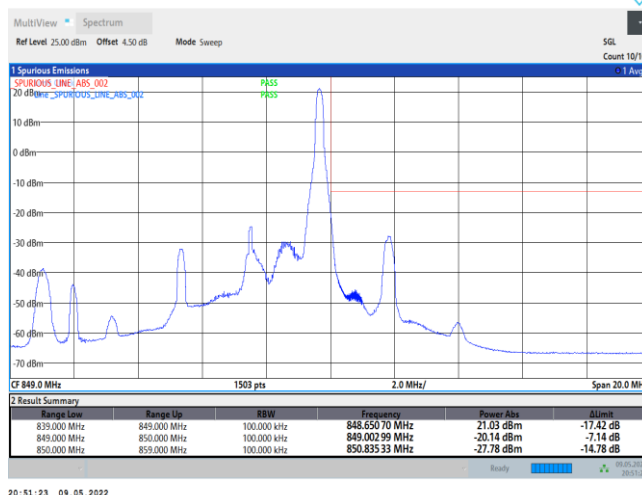
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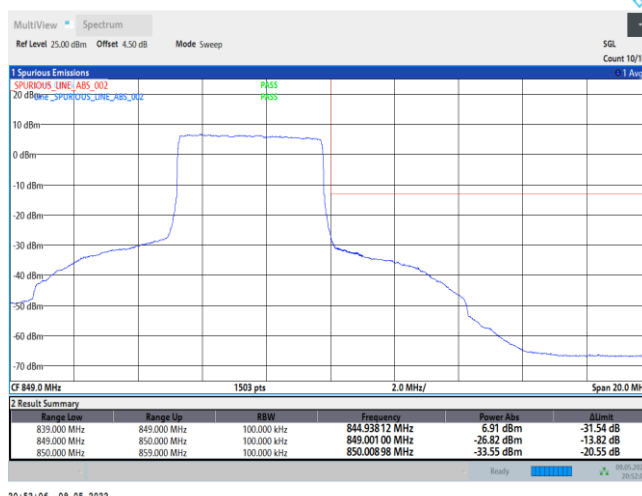
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Band5-5MHz-QPSK-20625-25RB#0



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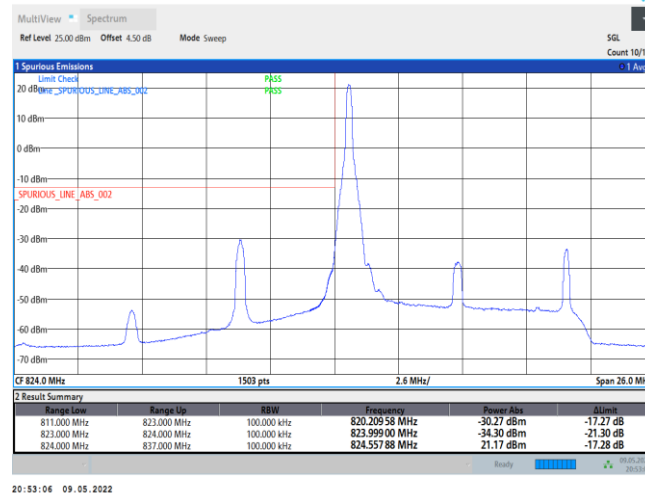
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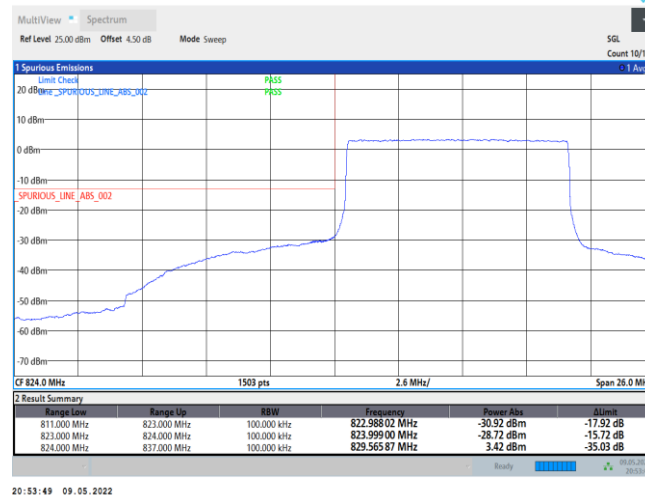
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Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-50RB#0



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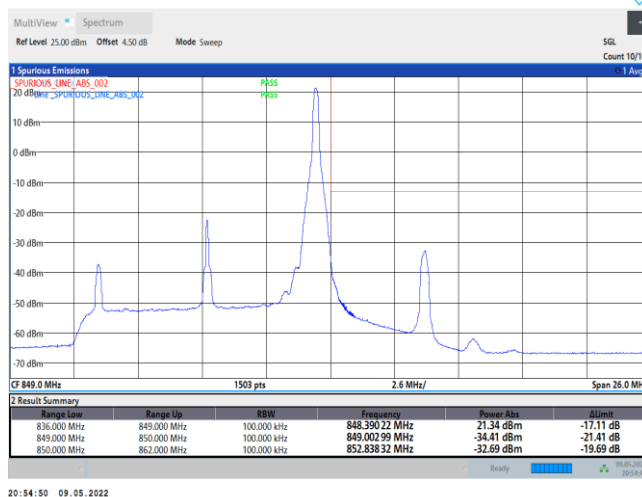
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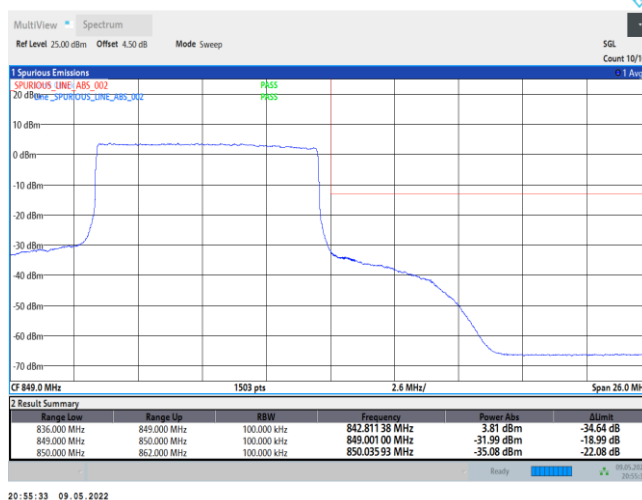
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Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



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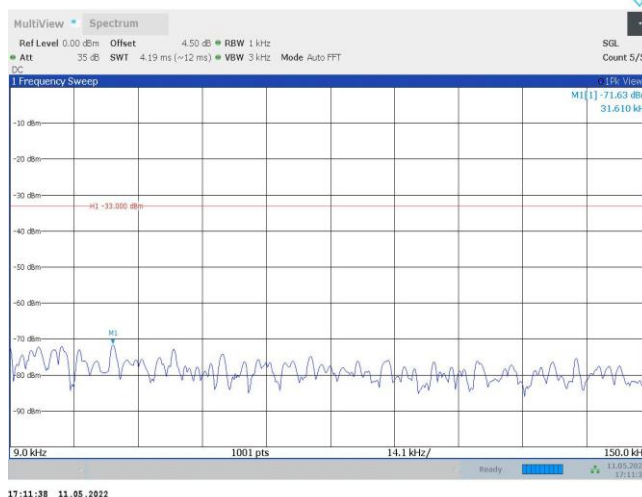
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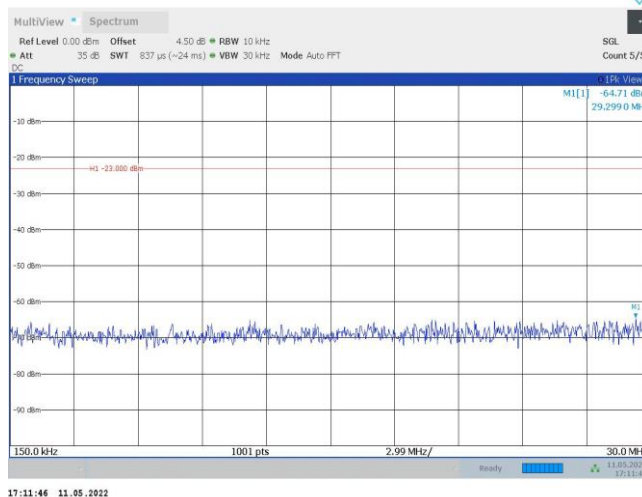
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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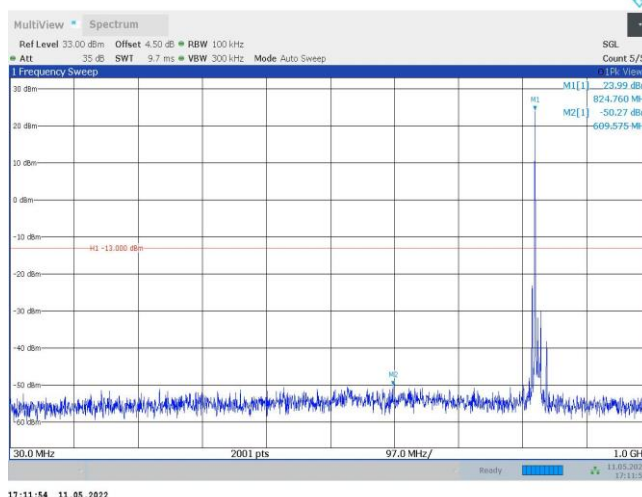
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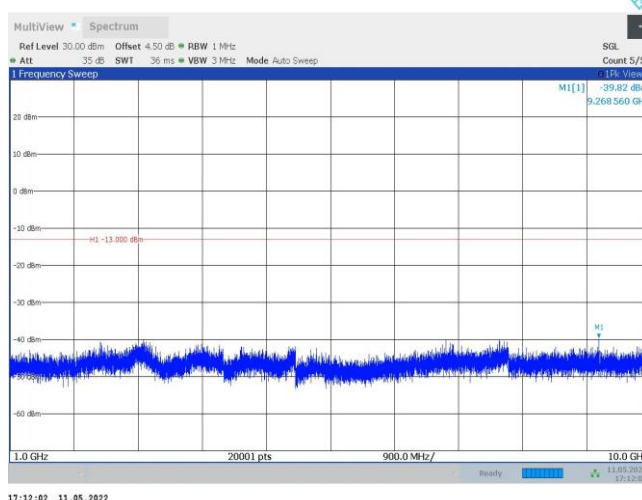
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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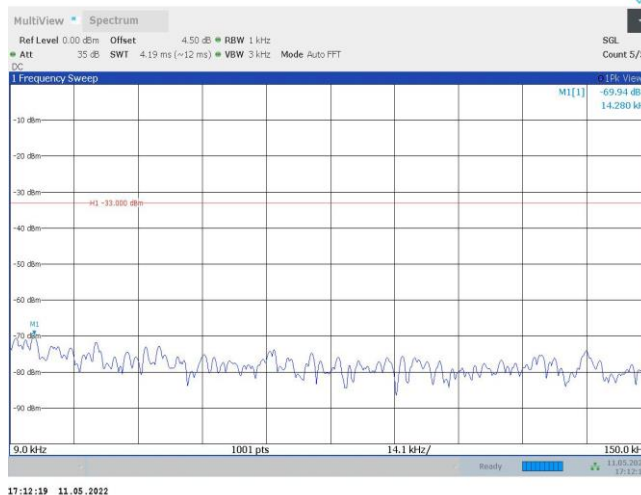
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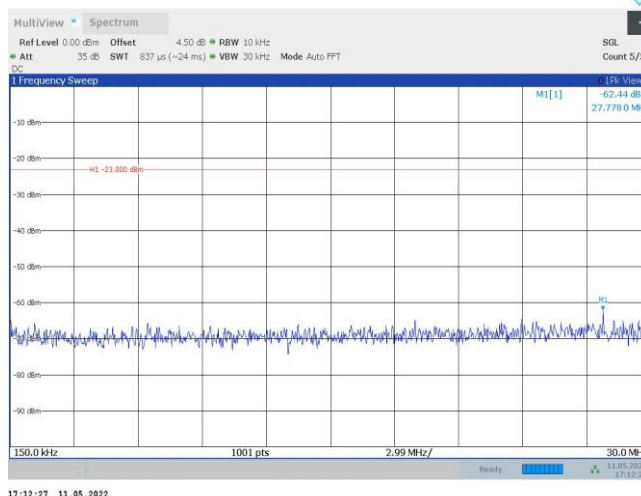
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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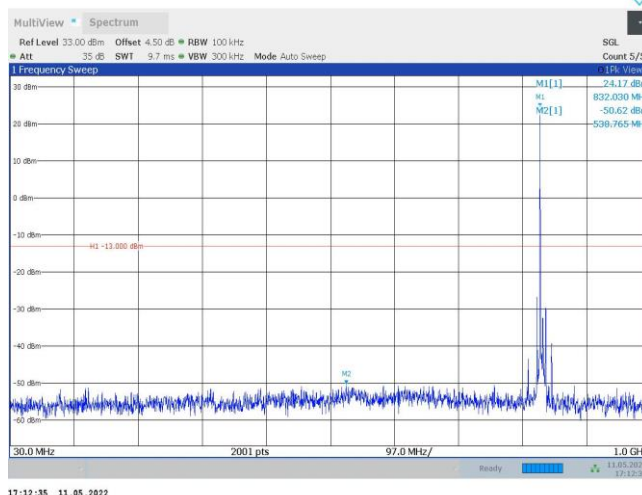
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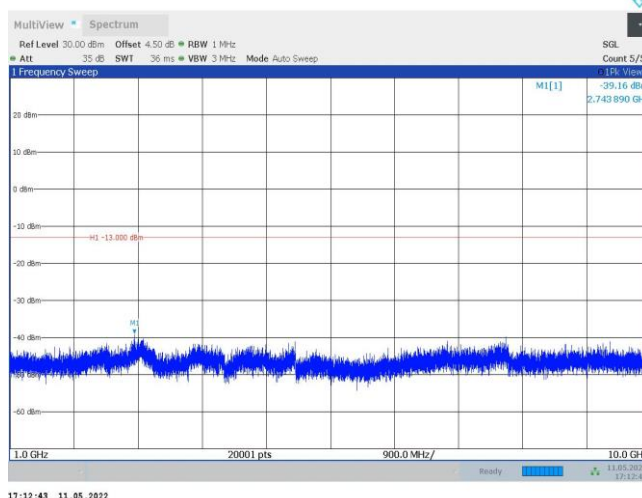
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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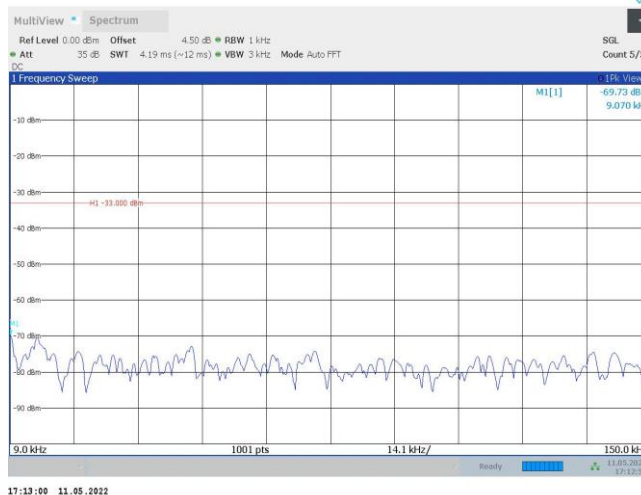
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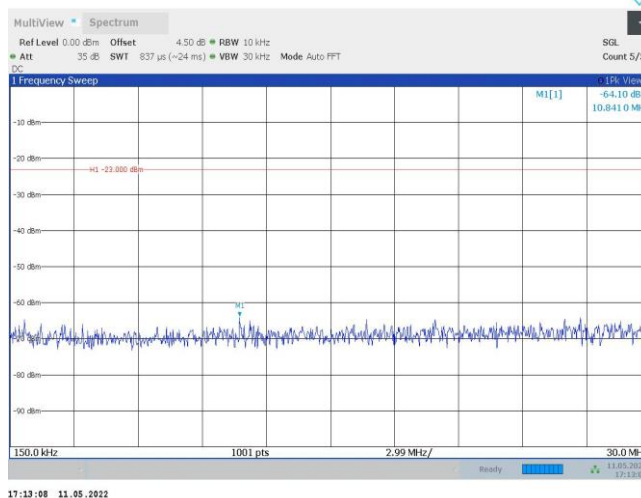
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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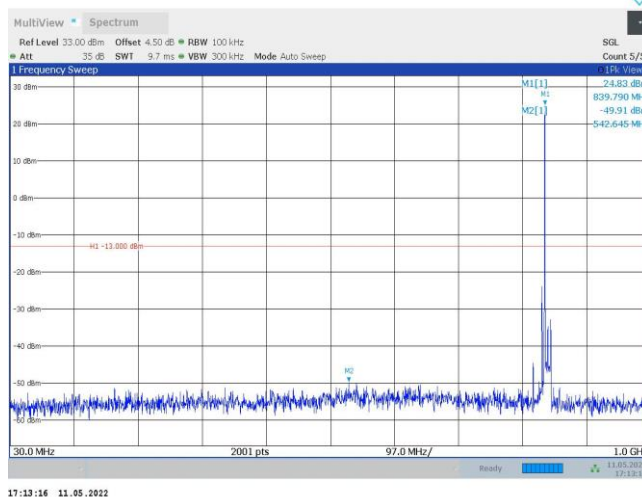
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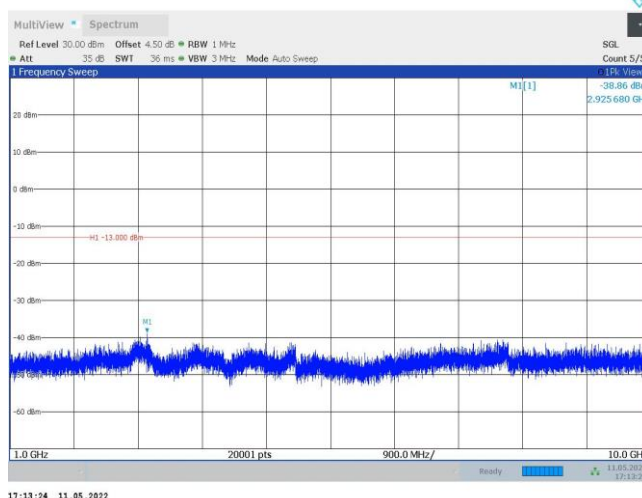
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	51.62	-118.11	-66.49	-13.00	53.49	142	122	Horizontal
2	2473.7700	63.22	-114.89	-51.67	-13.00	38.67	165	99	Horizontal
3	3298.3600	51.50	-112.38	-60.88	-13.00	47.88	184	359	Horizontal
4	4122.9500	50.72	-110.19	-59.47	-13.00	46.47	172	121	Horizontal
5	4947.5400	50.52	-108.22	-57.70	-13.00	44.70	201	343	Horizontal
6	5772.1300	50.58	-106.25	-55.67	-13.00	42.67	199	231	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	52.21	-118.11	-65.90	-13.00	52.90	194	94	Vertical
2	2473.7700	53.56	-114.89	-61.33	-13.00	48.33	172	356	Vertical
3	3298.3600	52.42	-112.38	-59.96	-13.00	46.96	156	146	Vertical
4	4122.9500	50.94	-110.19	-59.25	-13.00	46.25	258	2	Vertical
5	4947.5400	50.80	-108.22	-57.42	-13.00	44.42	149	200	Vertical
6	5772.1300	51.17	-106.25	-55.08	-13.00	42.08	173	12	Vertical



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Test Band = LTE Band 5_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	55.17	-118.09	-62.92	-13.00	49.92	126	121	Horizontal
2	2496	62.67	-114.78	-52.11	-13.00	39.11	195	148	Horizontal
3	3328.3600	53.35	-112.38	-59.03	-13.00	46.03	175	132	Horizontal
4	4160.4500	51.01	-110.16	-59.15	-13.00	46.15	142	301	Horizontal
5	4992.5400	51.62	-108.19	-56.57	-13.00	43.57	231	153	Horizontal
6	5824.6300	50.05	-106.20	-56.15	-13.00	43.15	188	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	52.71	-118.09	-65.38	-13.00	52.38	285	40	Vertical
2	2496	59.13	-114.78	-55.65	-13.00	42.65	149	262	Vertical
3	3328.3600	53.17	-112.38	-59.21	-13.00	46.21	196	251	Vertical
4	4160.4500	49.88	-110.16	-60.28	-13.00	47.28	172	83	Vertical
5	4992.5400	50.51	-108.19	-57.68	-13.00	44.68	201	1	Vertical
6	5824.6300	50.28	-106.20	-55.92	-13.00	42.92	155	104	Vertical



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Test Band = LTE Band 5_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1682.8571	60.64	-118.06	-57.42	-13.00	44.42	184	97	Horizontal
2	2518.7700	66.87	-114.63	-47.76	-13.00	34.76	195	108	Horizontal
3	3358.3600	51.29	-112.38	-61.09	-13.00	48.09	172	24	Horizontal
4	4197.9500	50.70	-110.12	-59.42	-13.00	46.42	216	204	Horizontal
5	5037.5400	50.42	-108.01	-57.59	-13.00	44.59	142	14	Horizontal
6	5887.1300	50.55	-106.27	-55.72	-13.00	42.72	211	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1663.4286	57.87	-118.09	-60.22	-13.00	47.22	215	231	Vertical
2	2518.7700	59.12	-114.63	-55.51	-13.00	42.51	144	326	Vertical
3	3358.3600	52.15	-112.38	-60.23	-13.00	47.23	123	240	Vertical
4	4197.9500	50.70	-110.12	-59.42	-13.00	46.42	200	92	Vertical
5	5037.5400	49.97	-108.01	-58.04	-13.00	45.04	239	207	Vertical
6	5887.1300	50.62	-106.27	-55.65	-13.00	42.65	191	103	Vertical



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	1.60	0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.80	0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.50	0.001793	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	1.10	0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.70	0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	1.70	0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS

The End



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中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com