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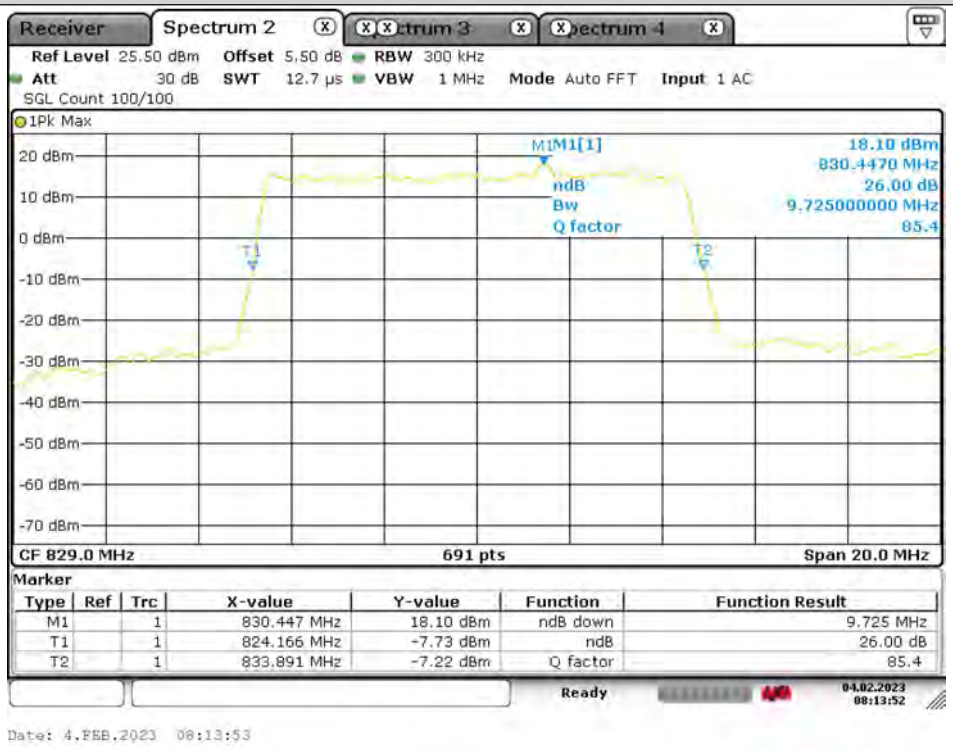

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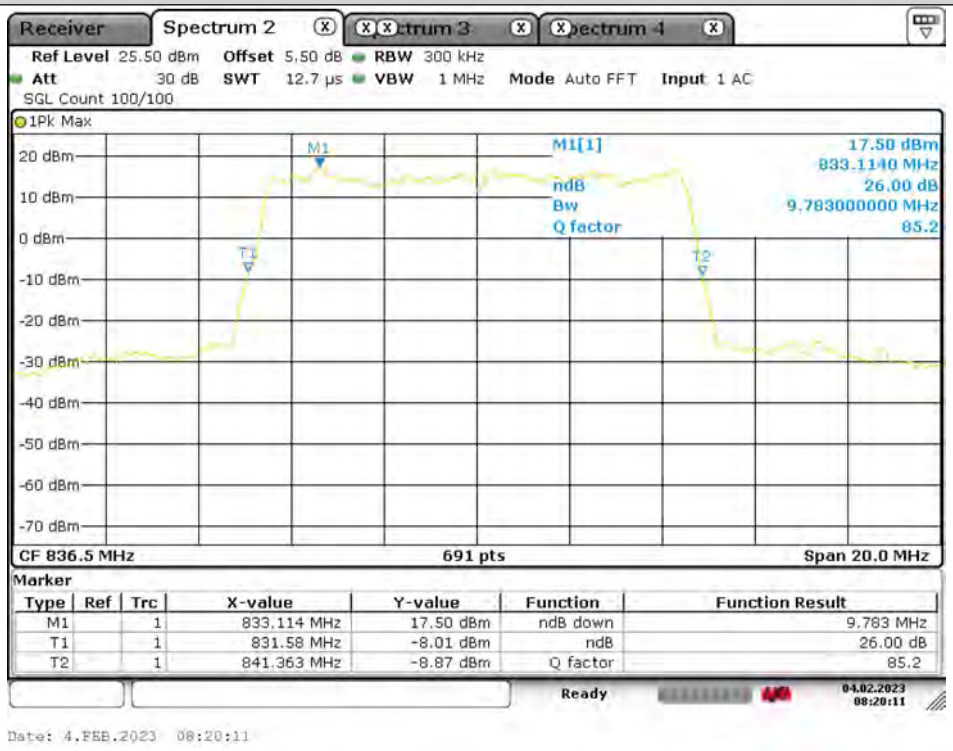

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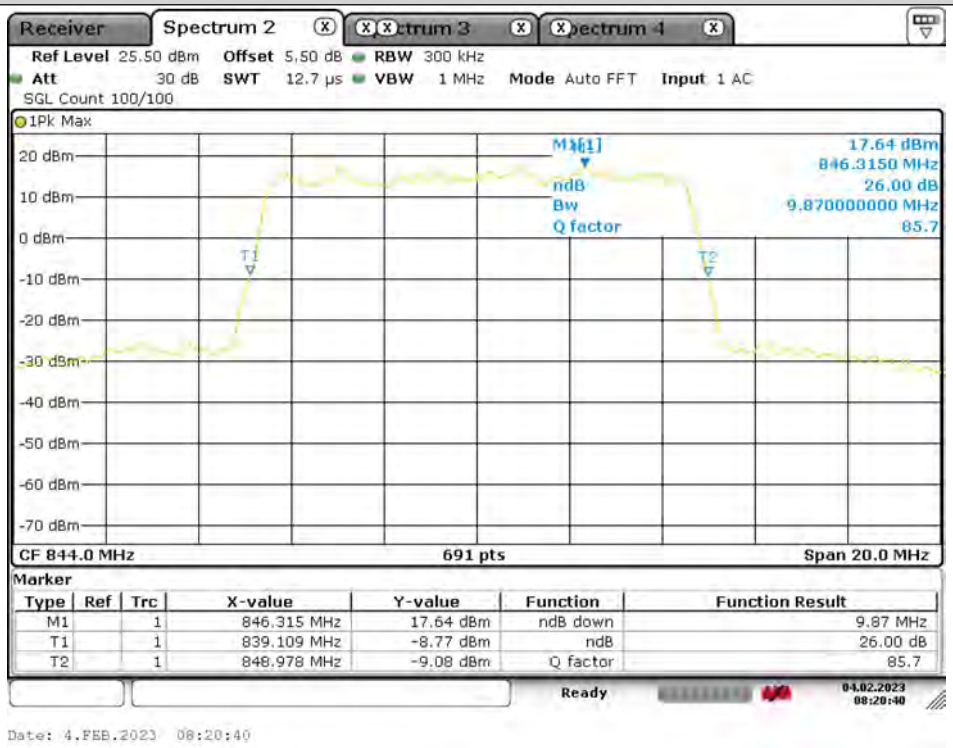

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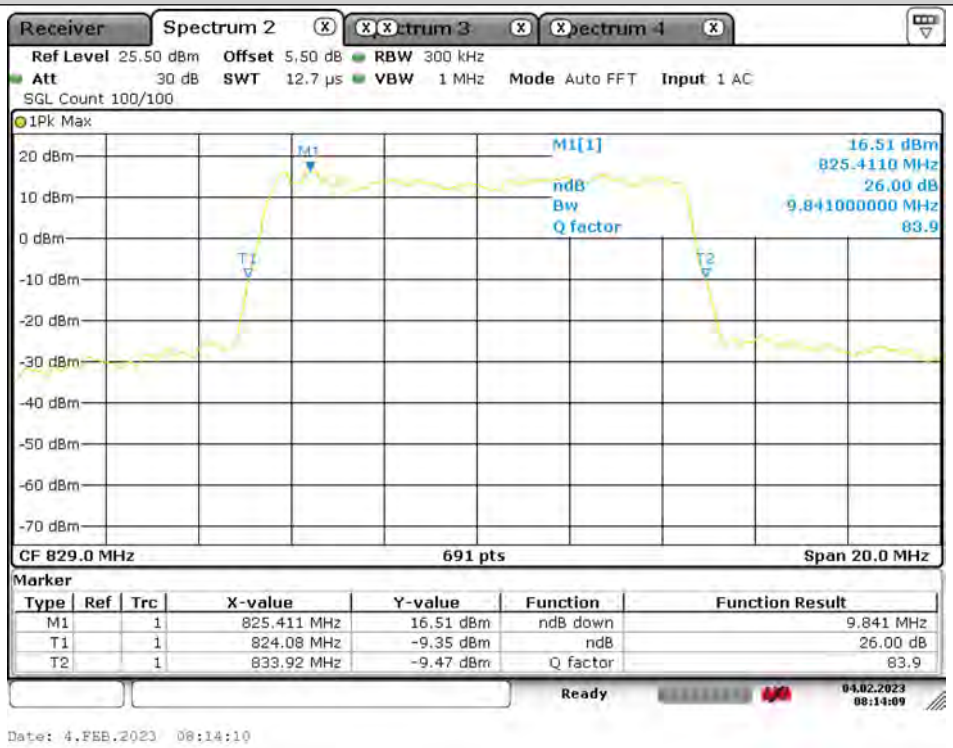

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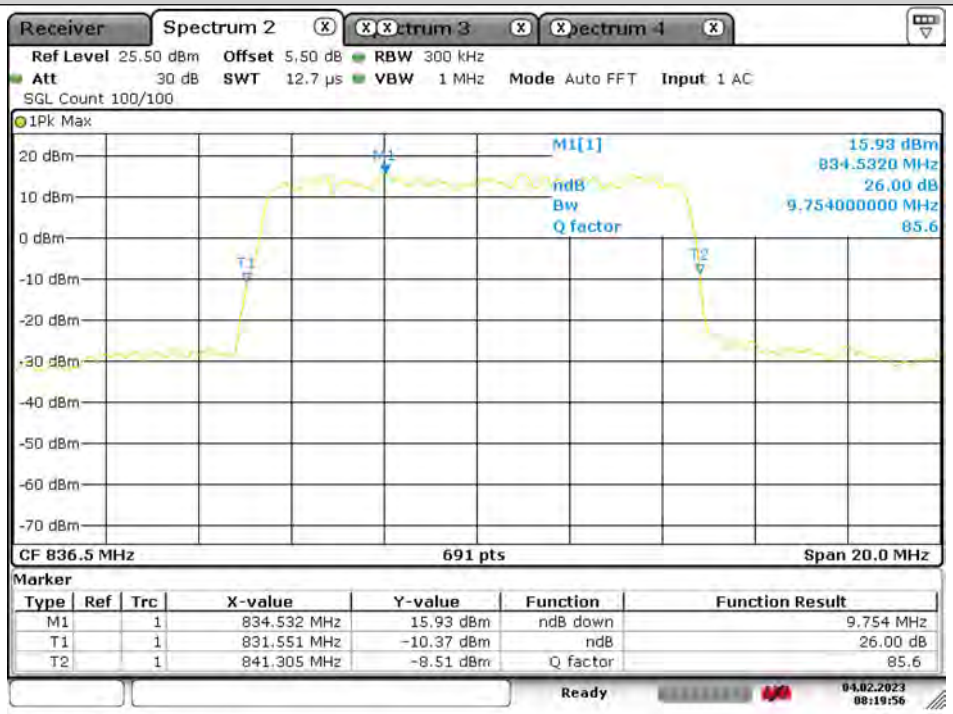

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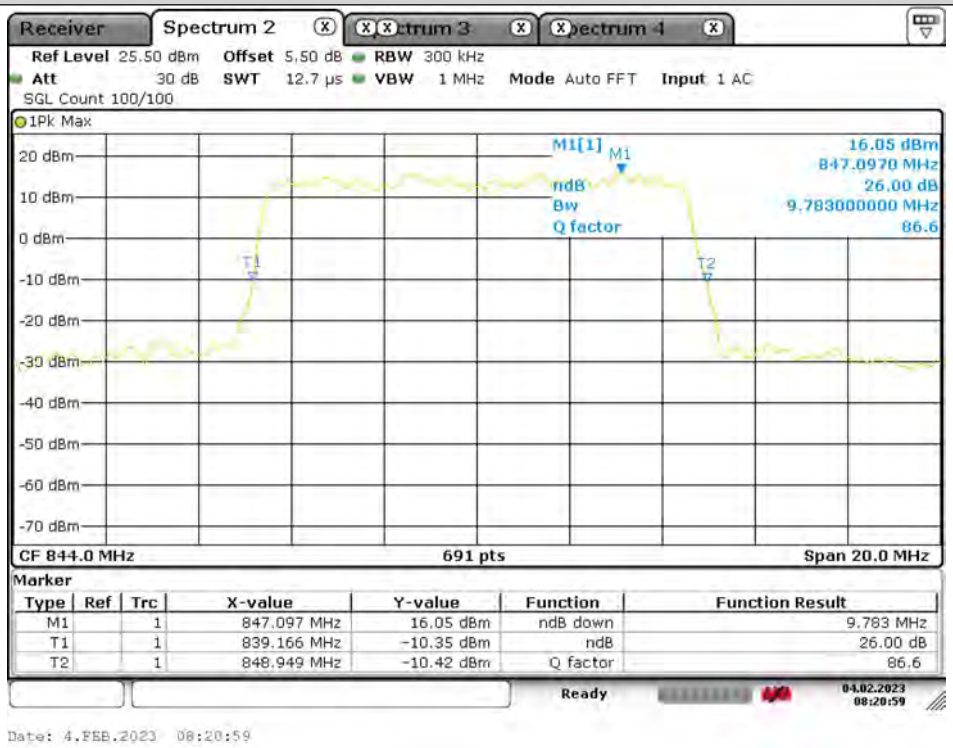

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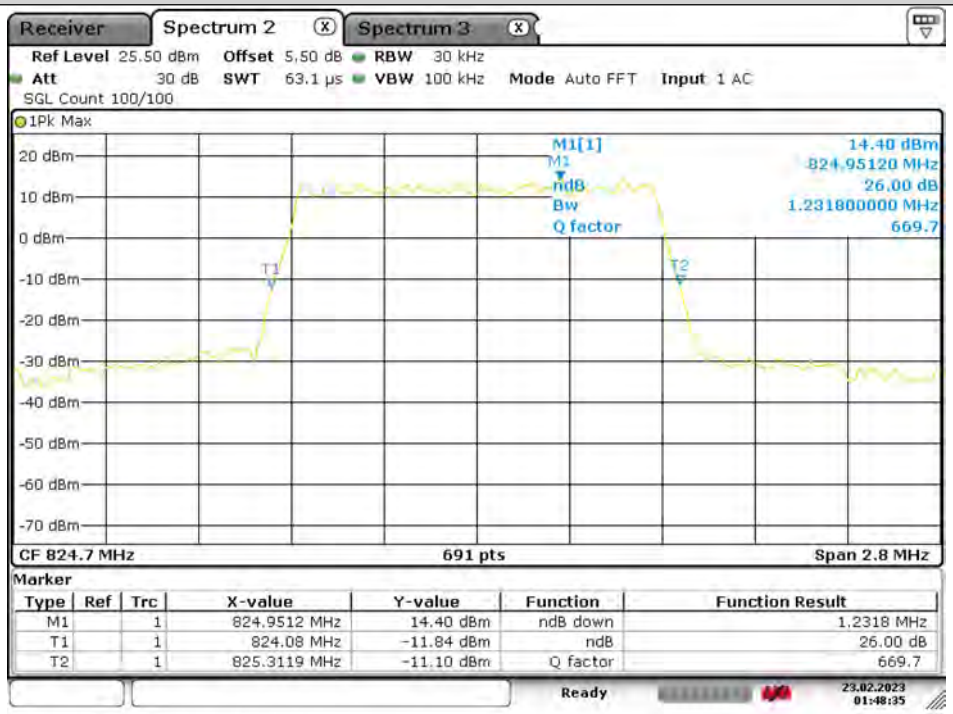

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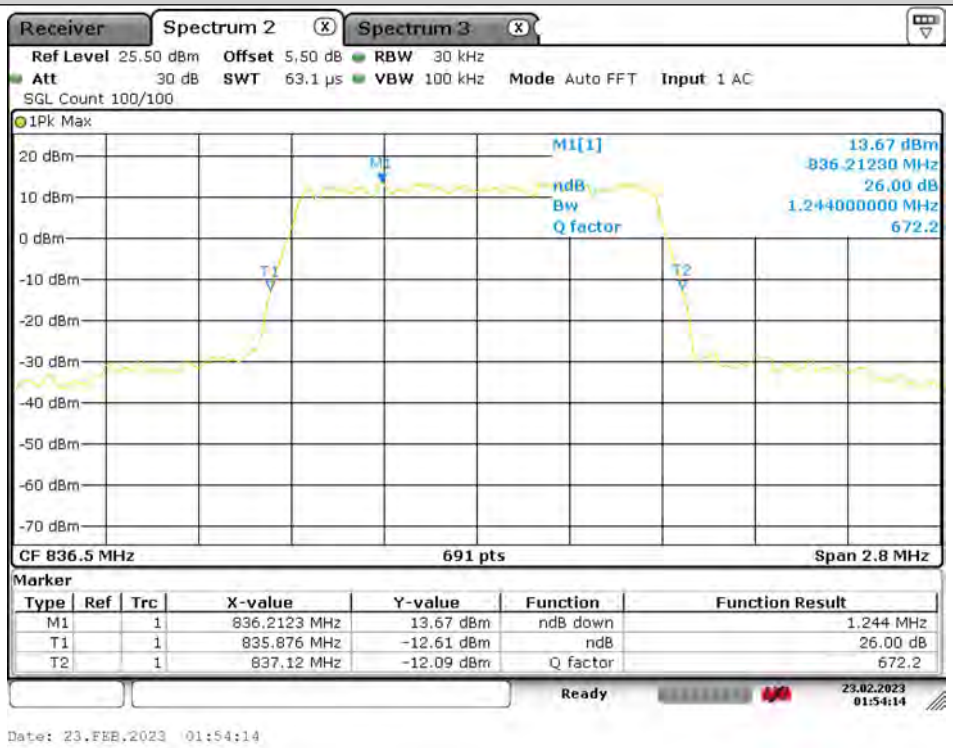

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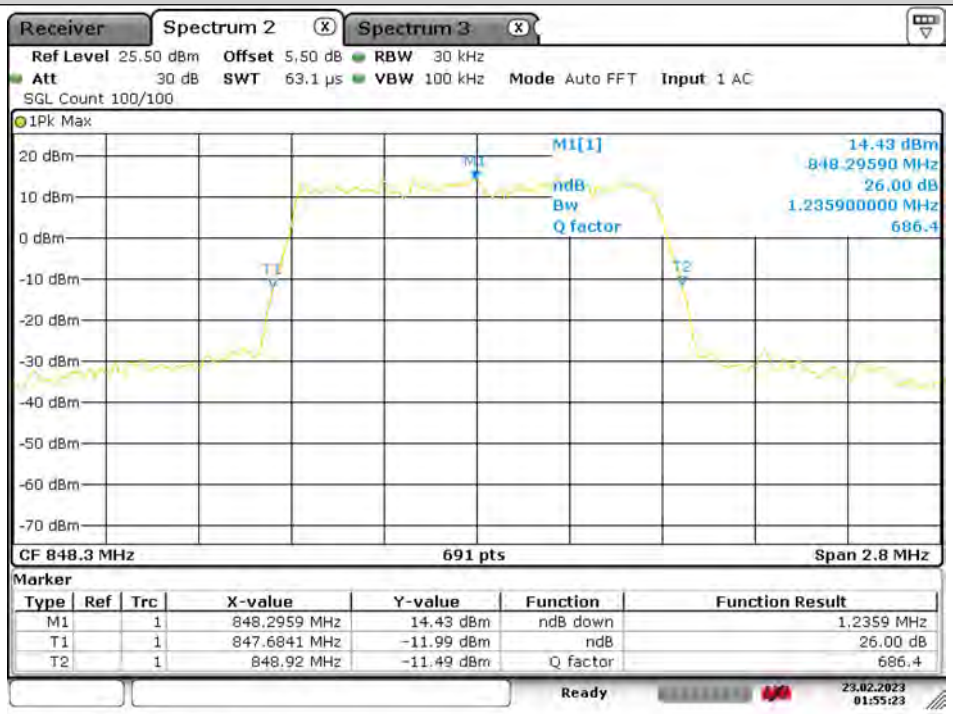

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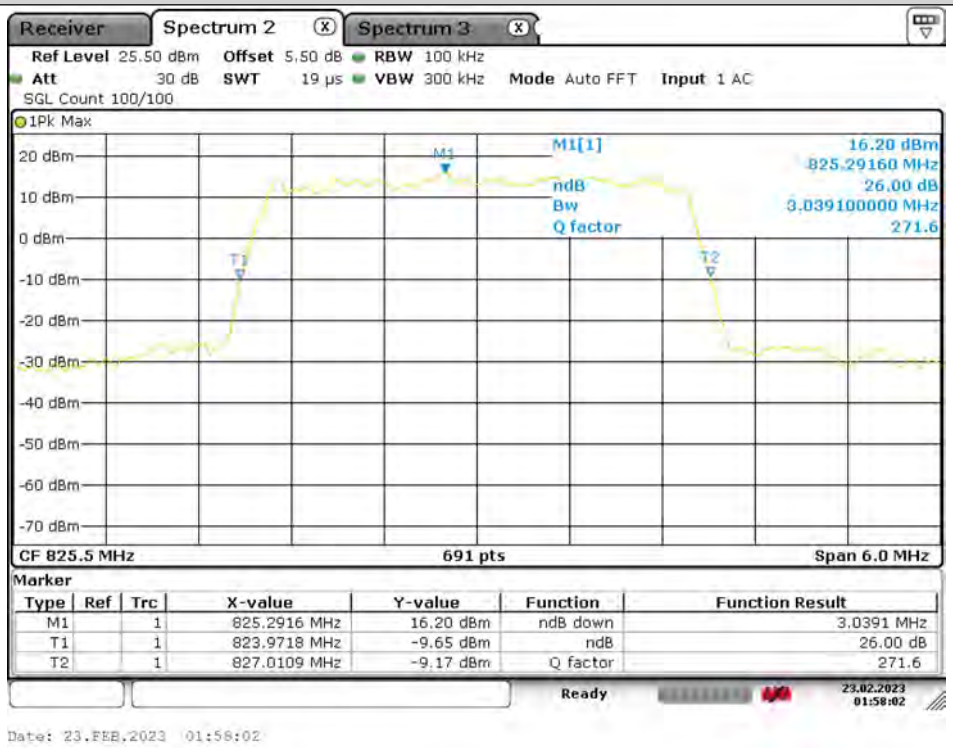

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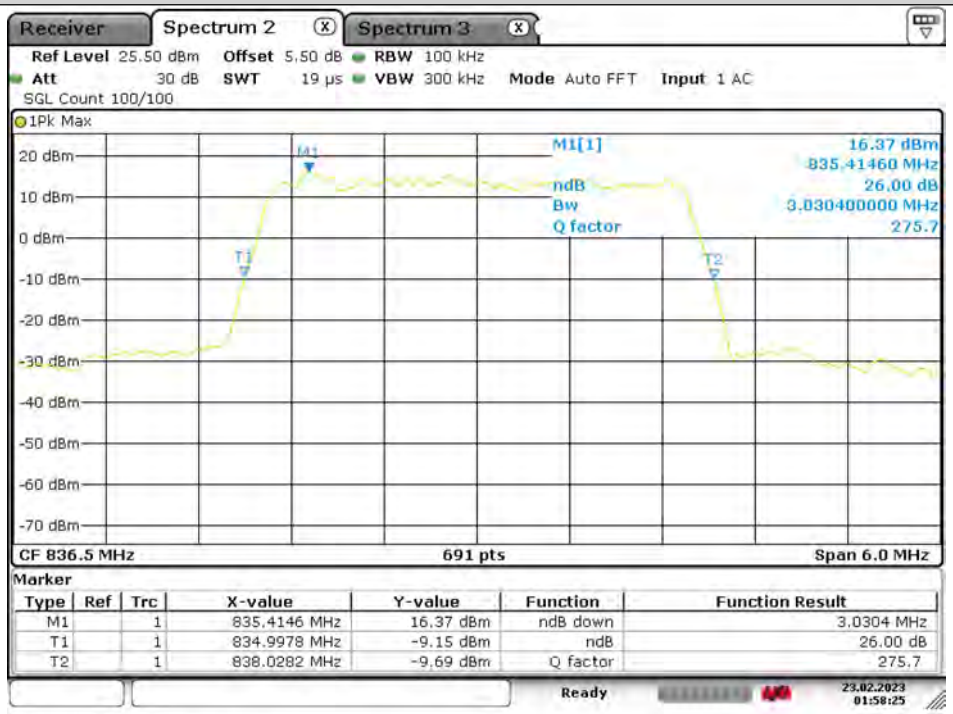

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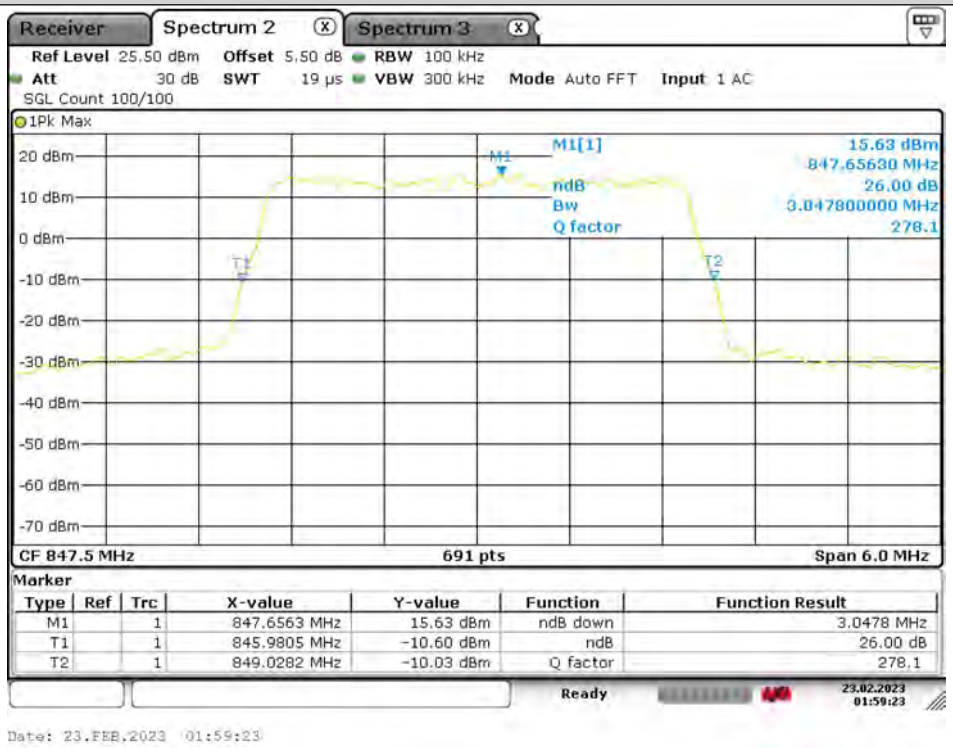

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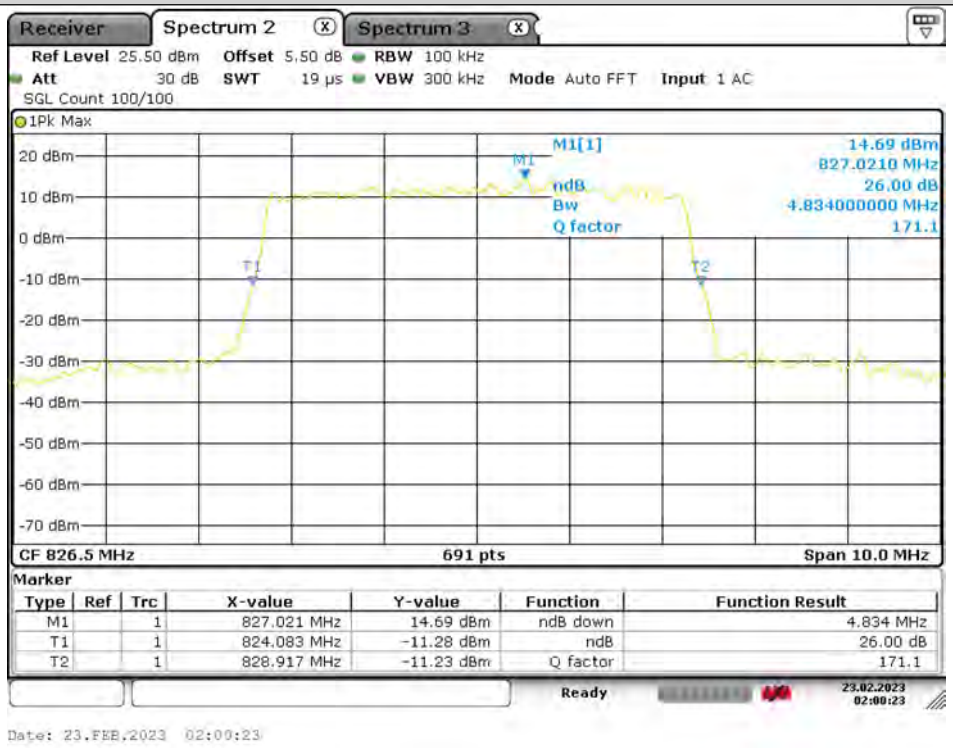

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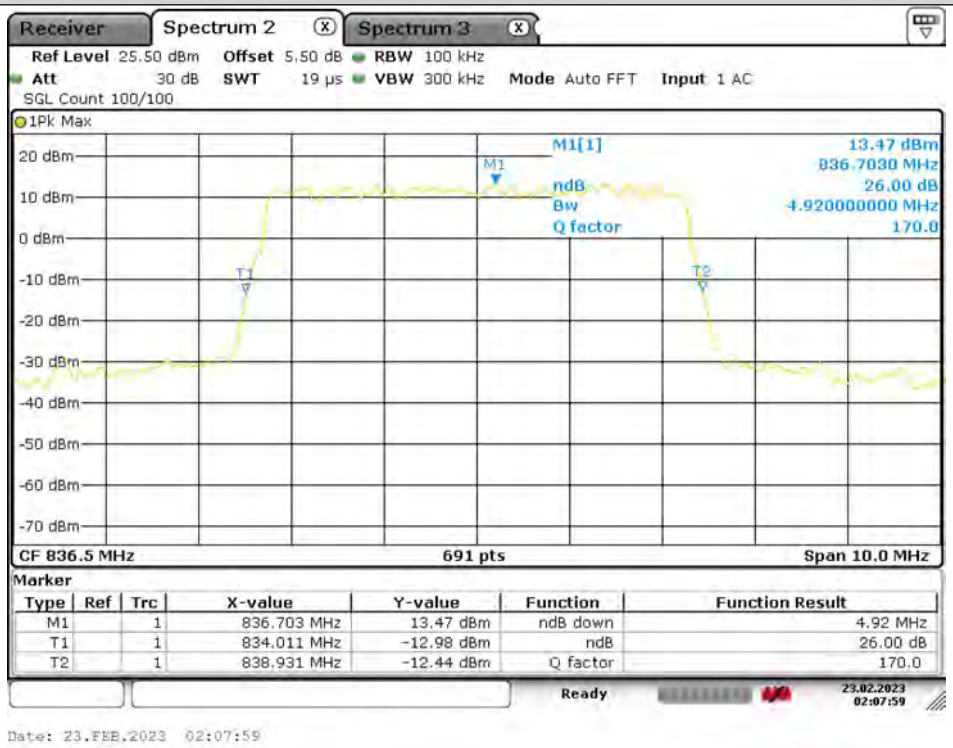

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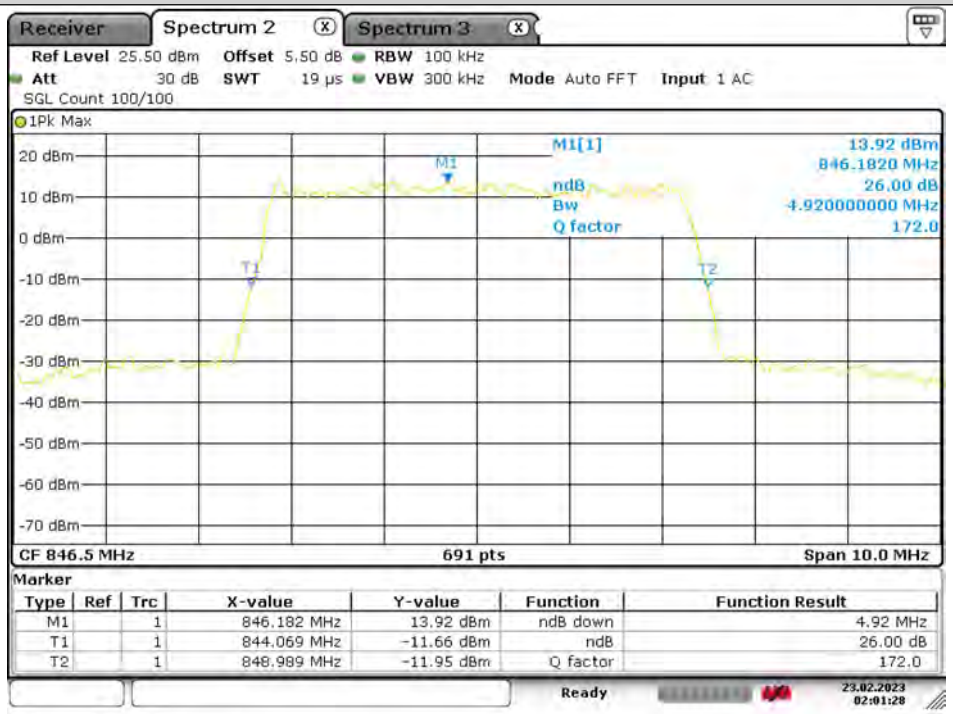

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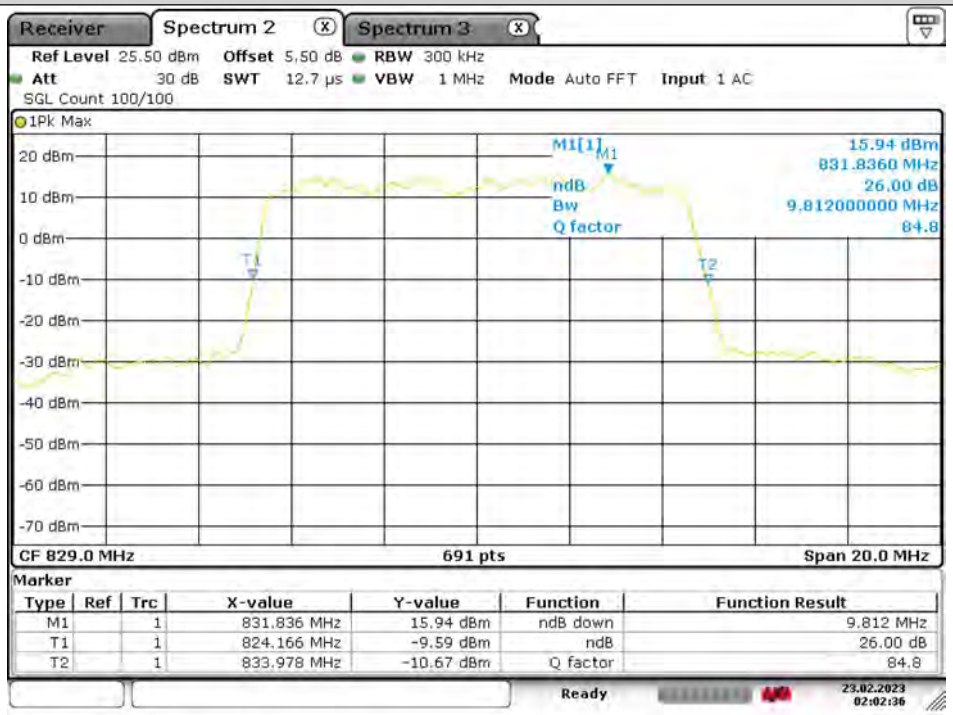

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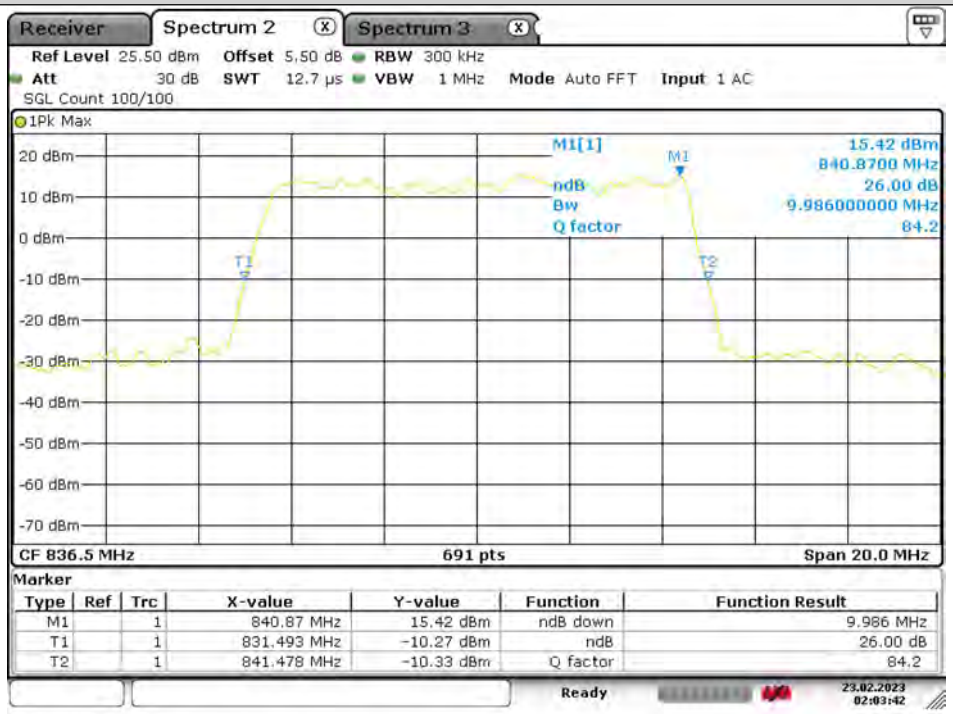

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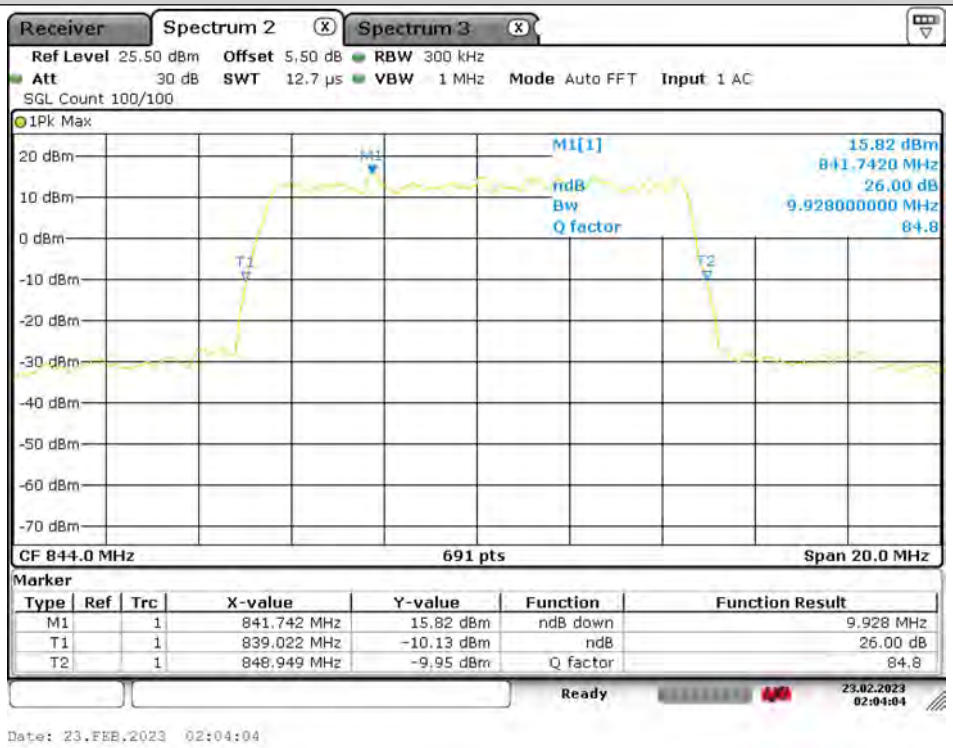
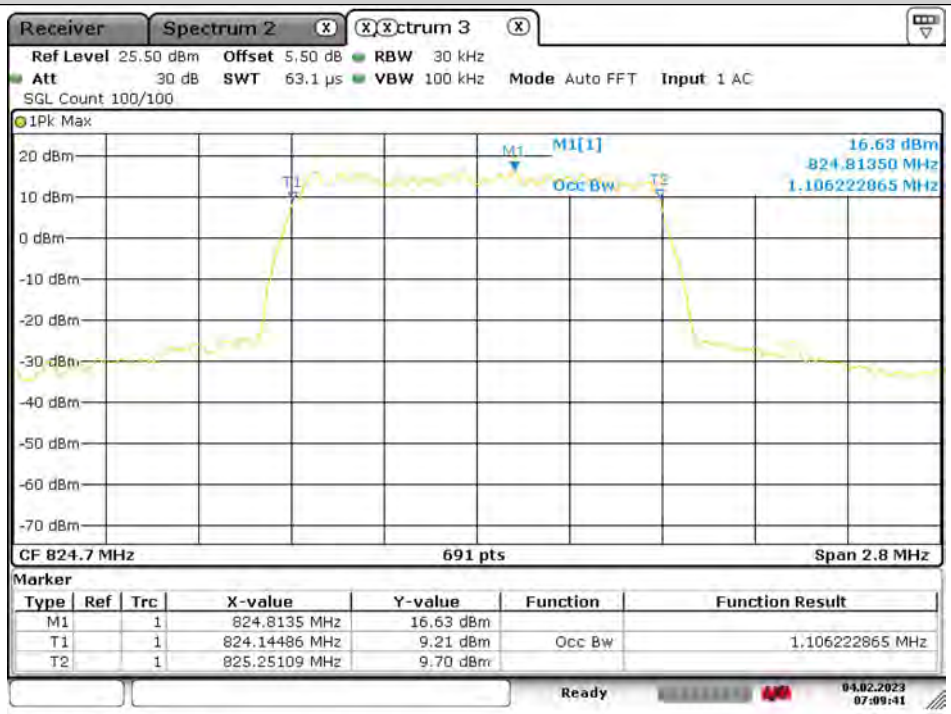


Occupied Bandwidth

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



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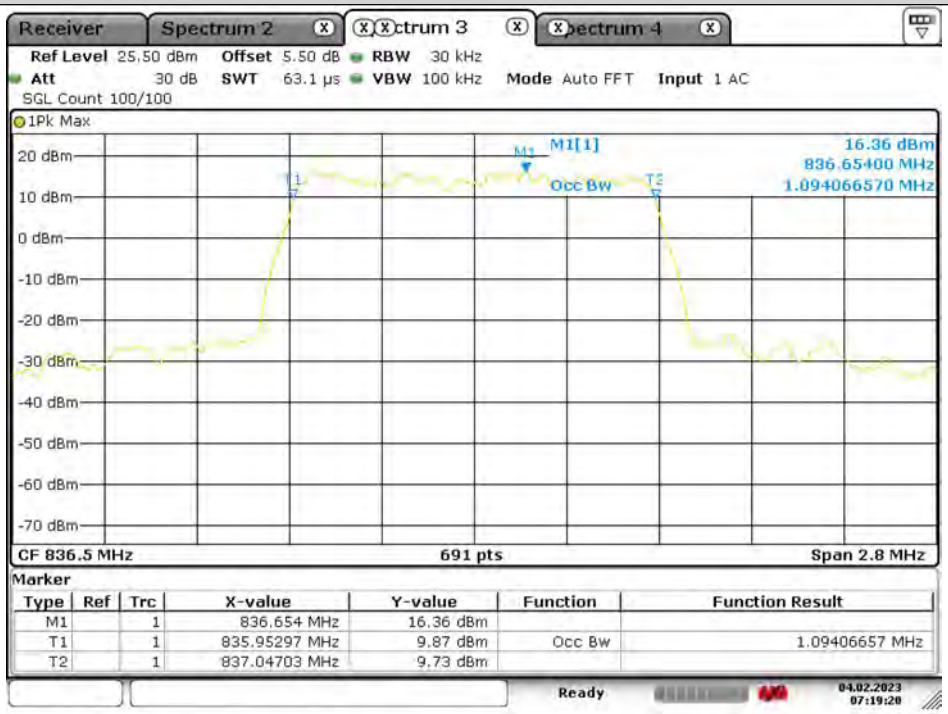

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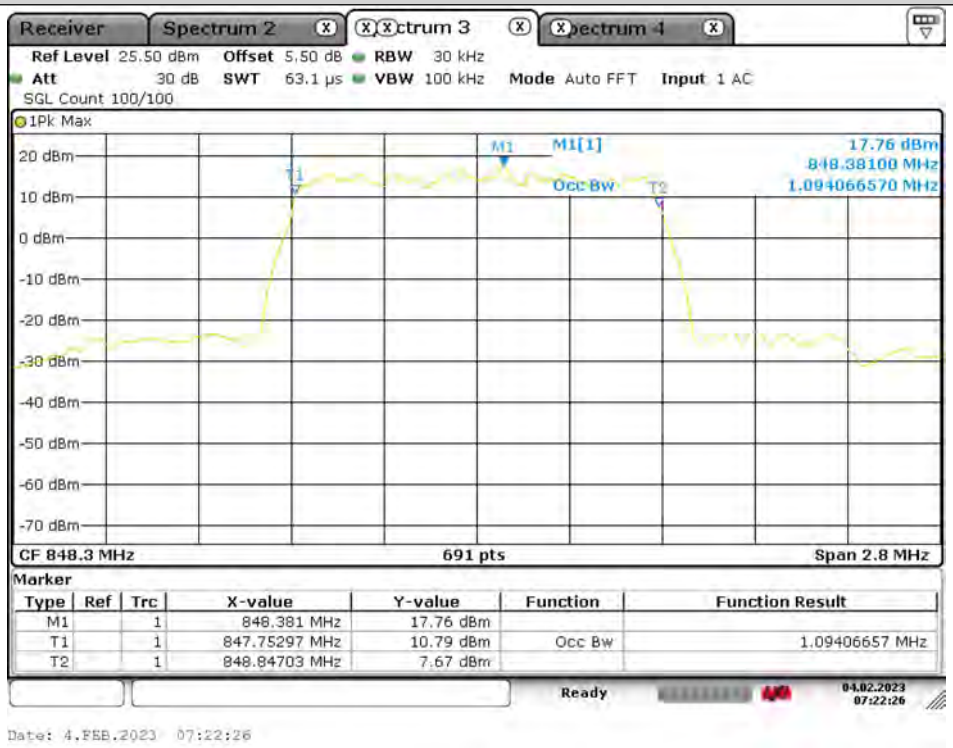

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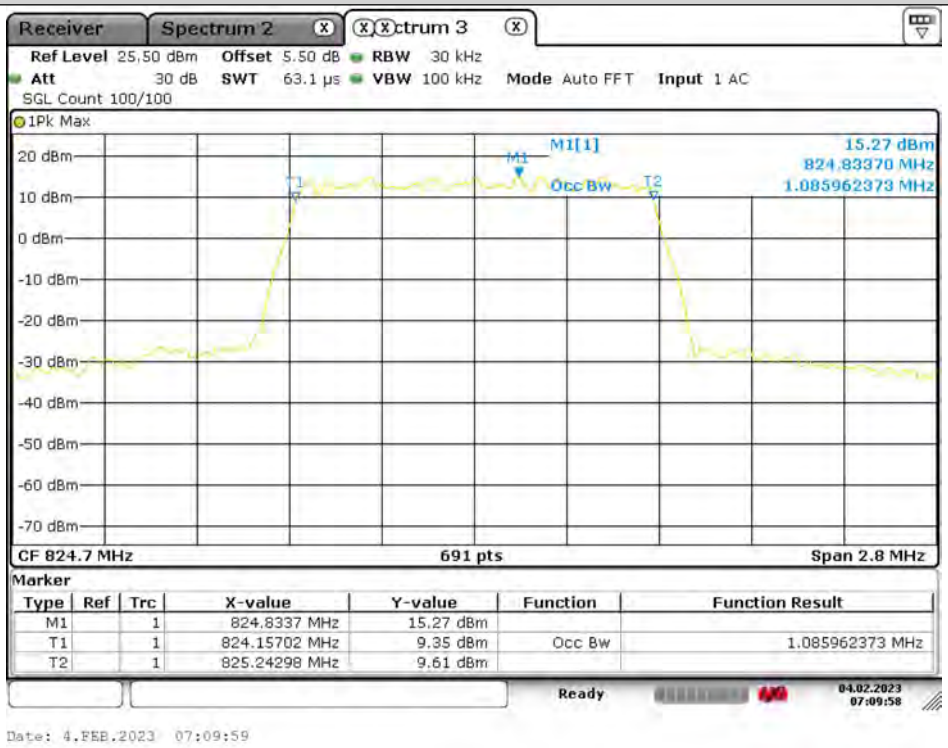

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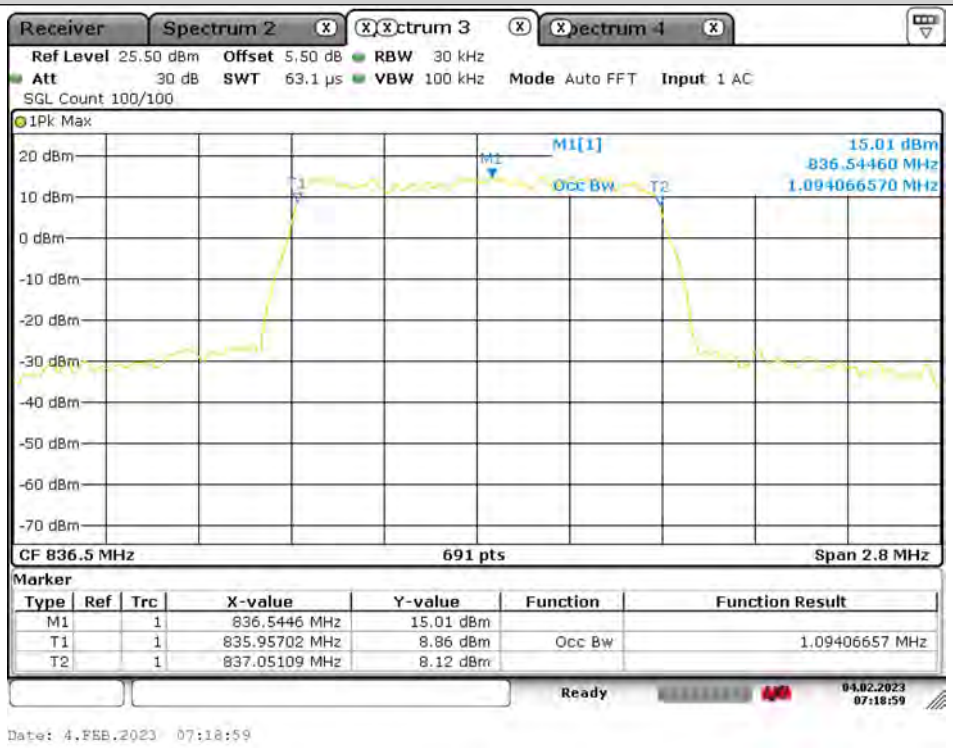

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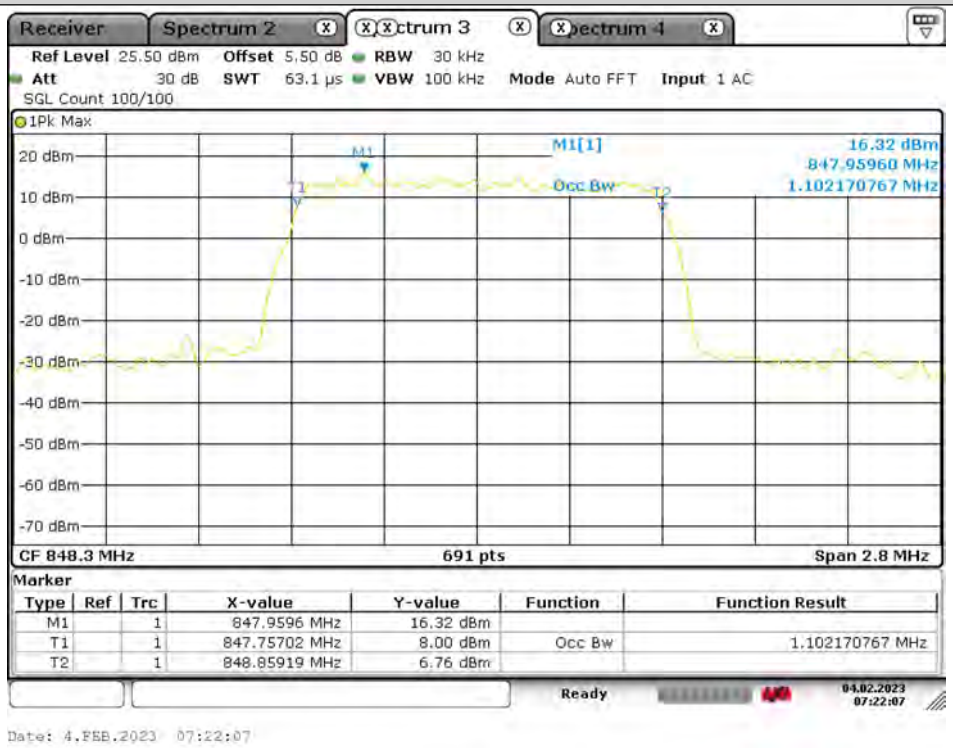

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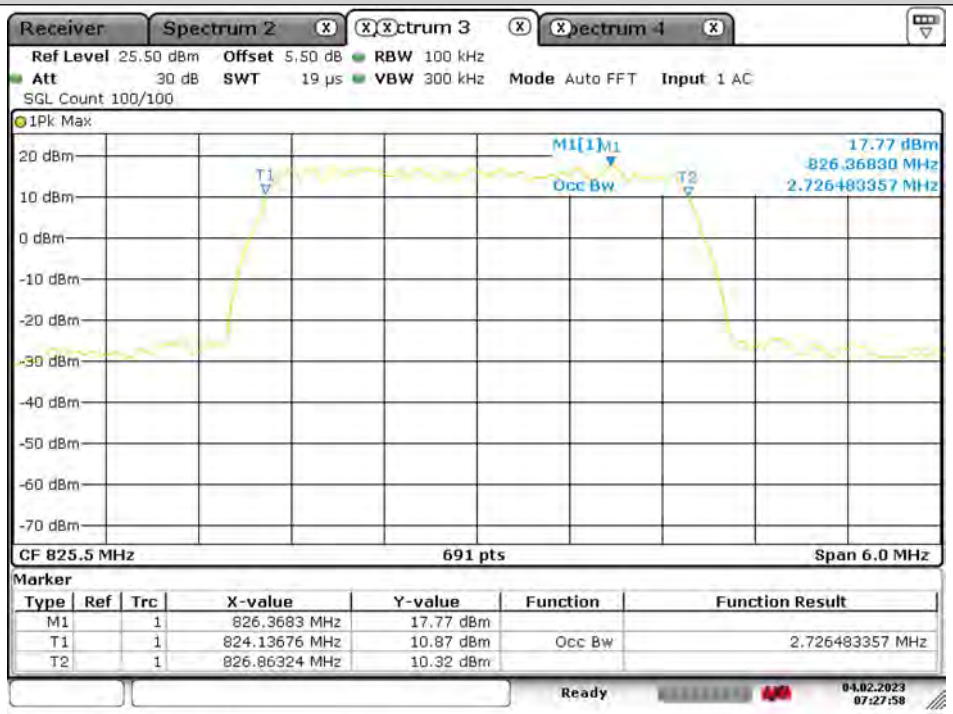

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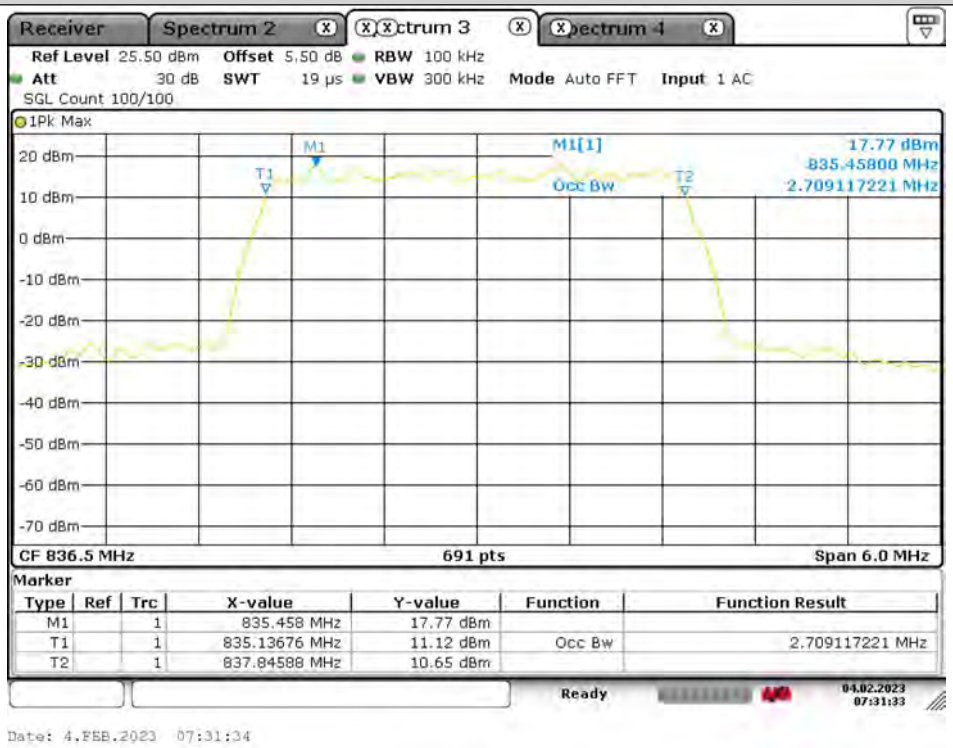

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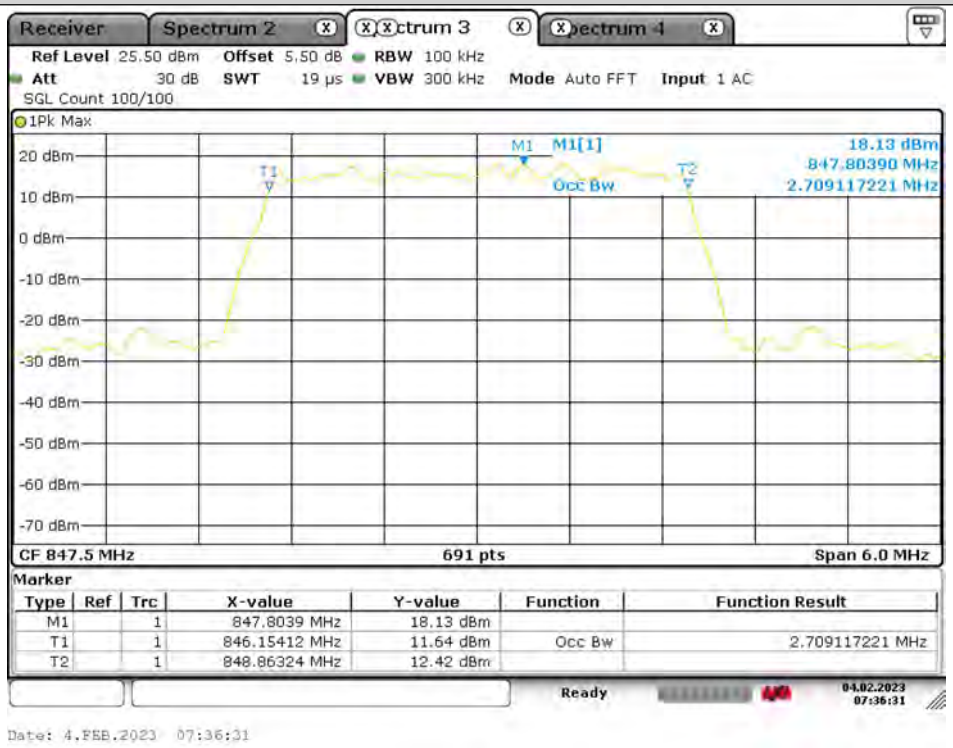

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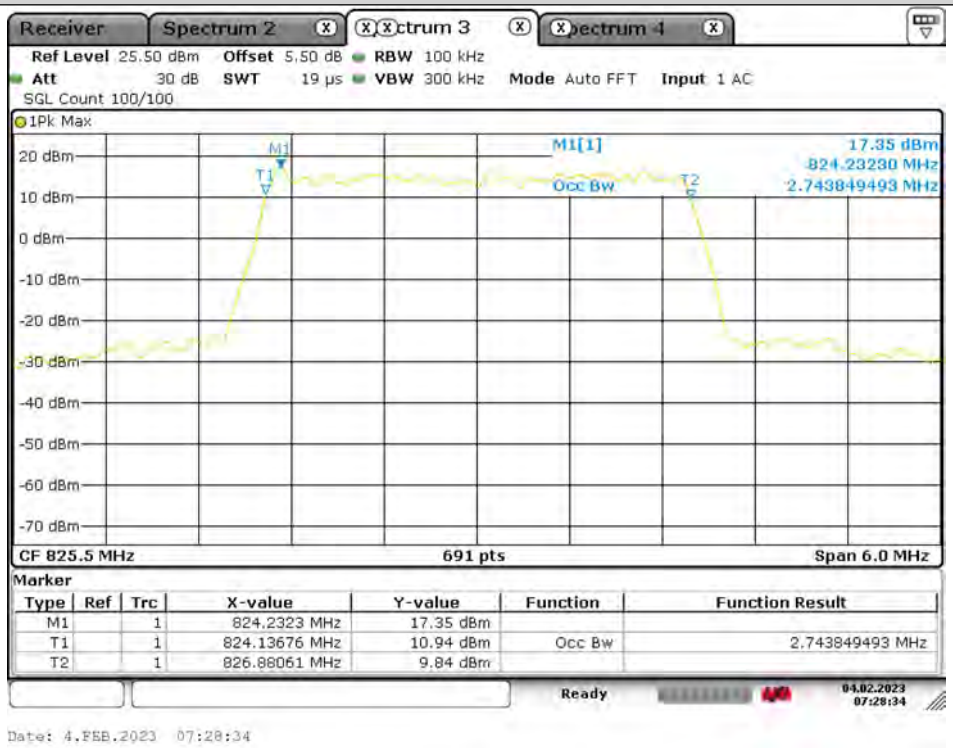

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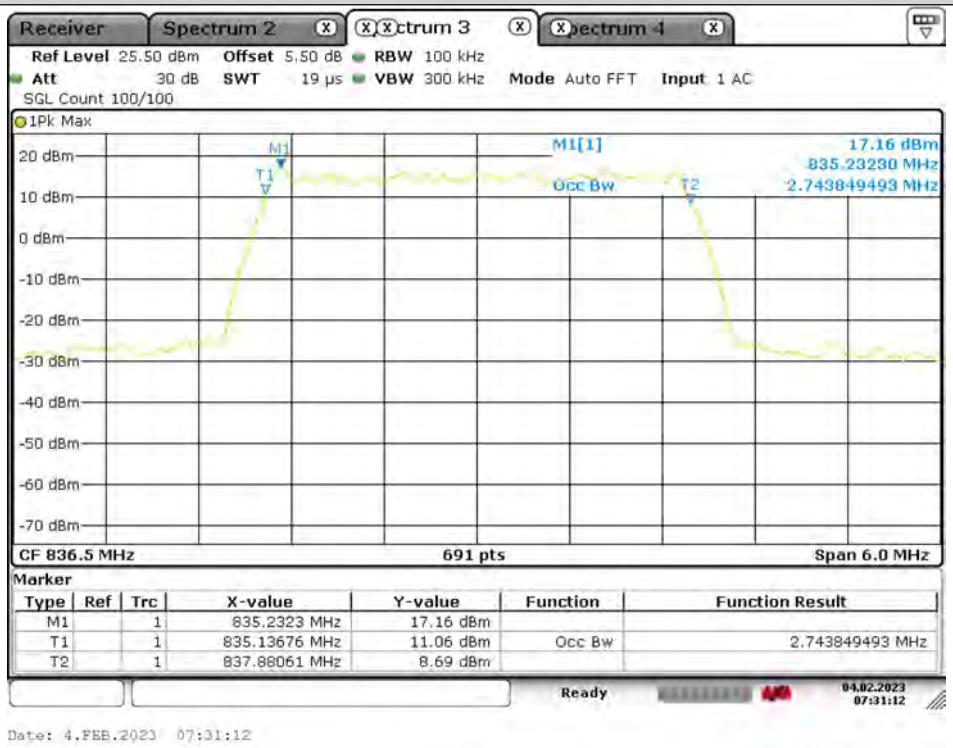

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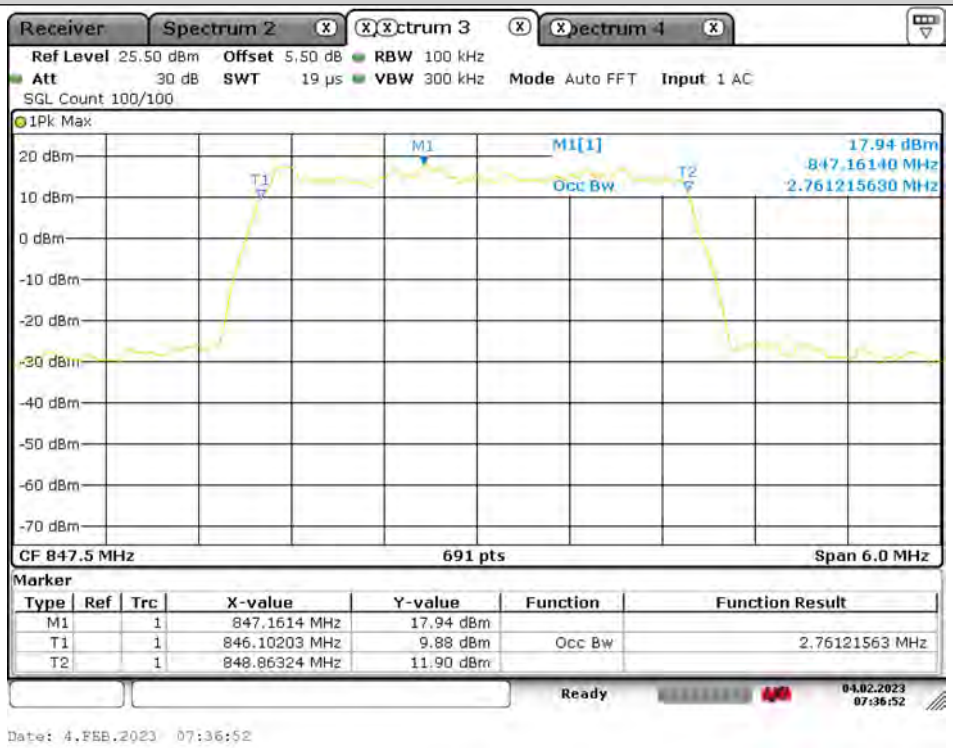

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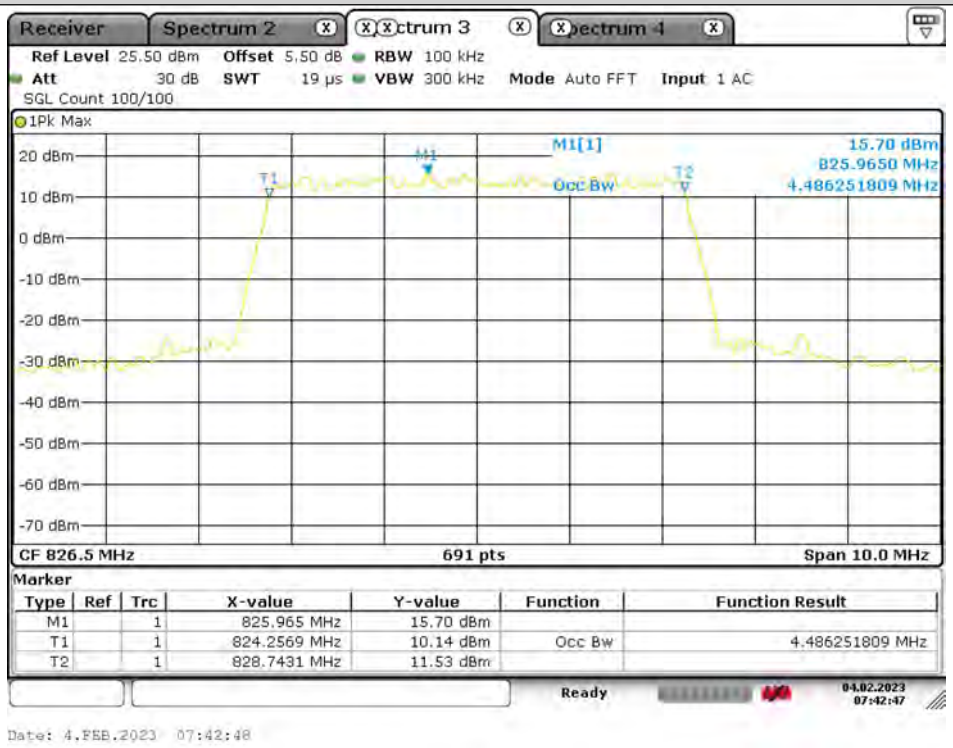

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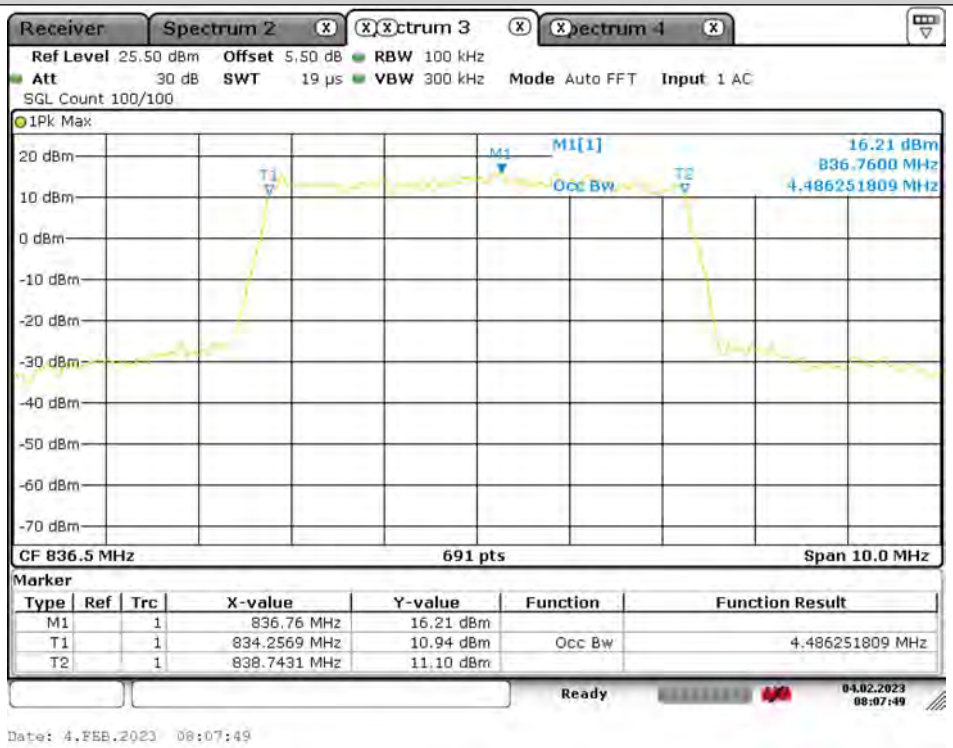

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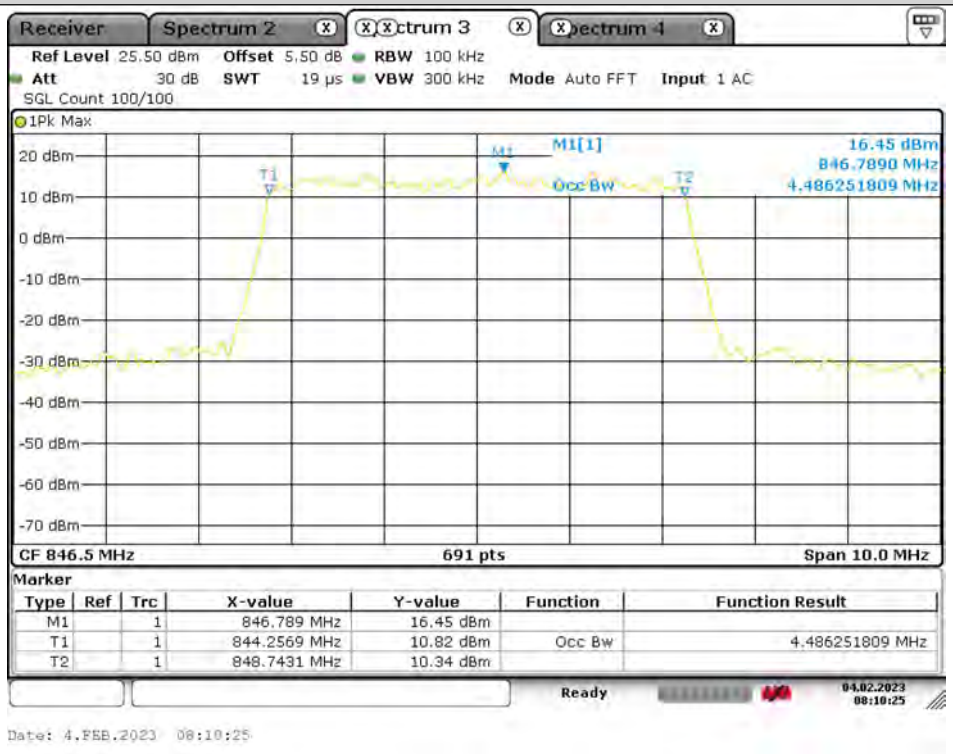

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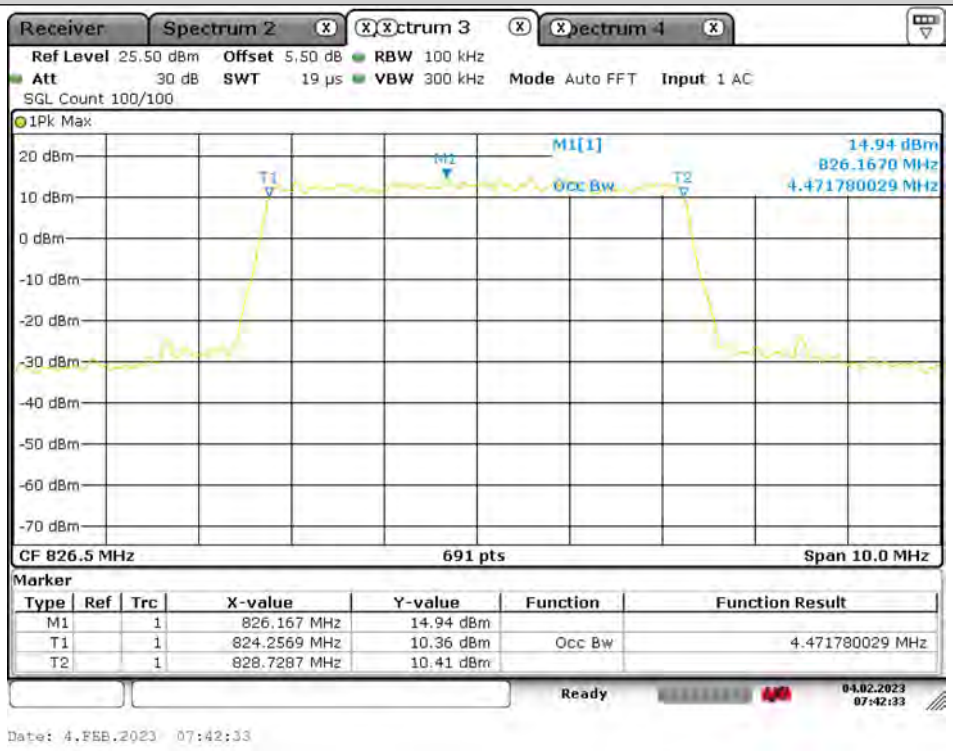

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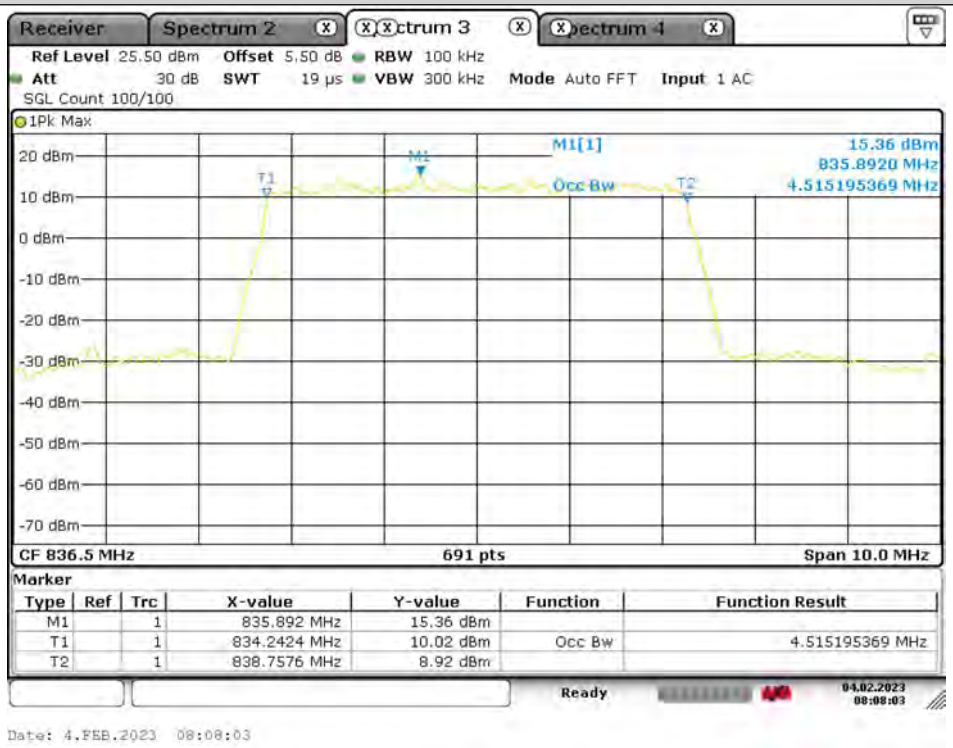

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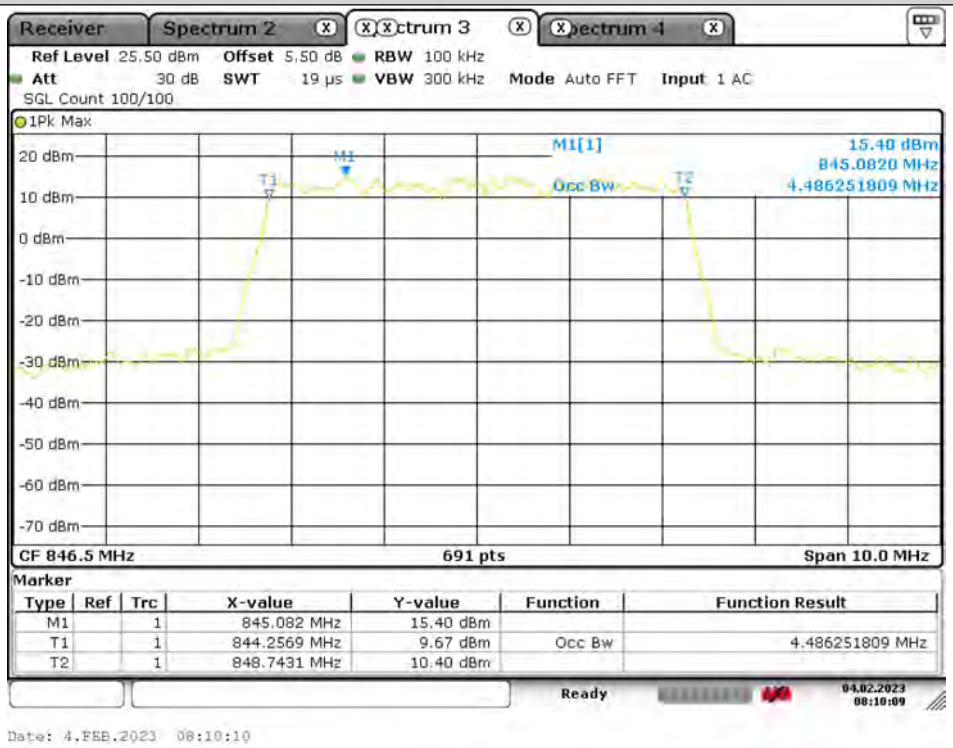

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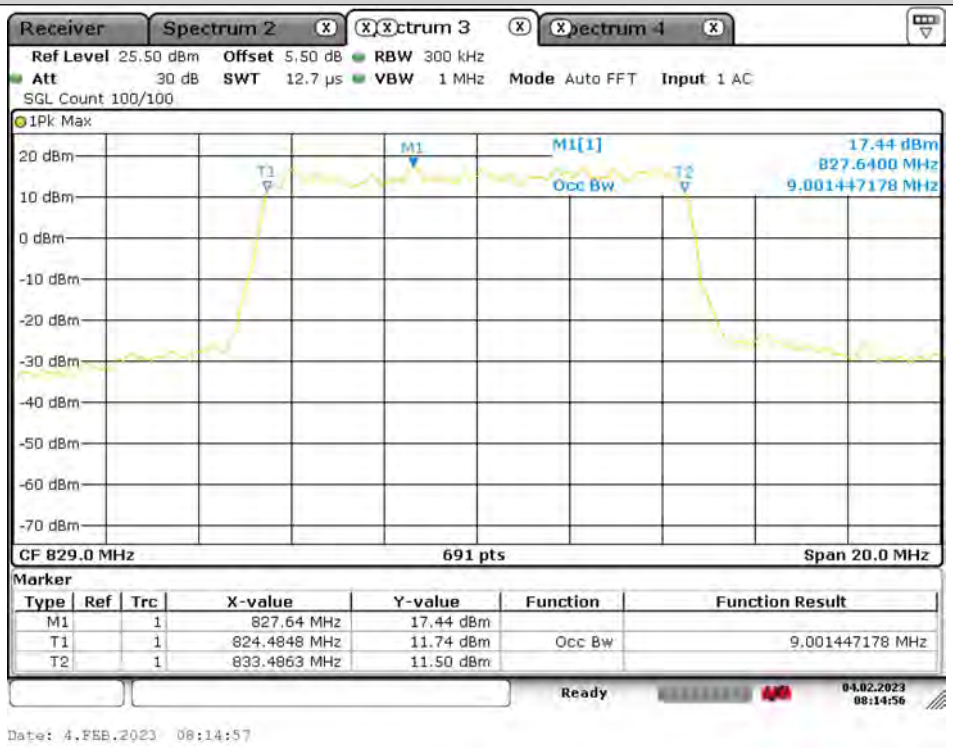

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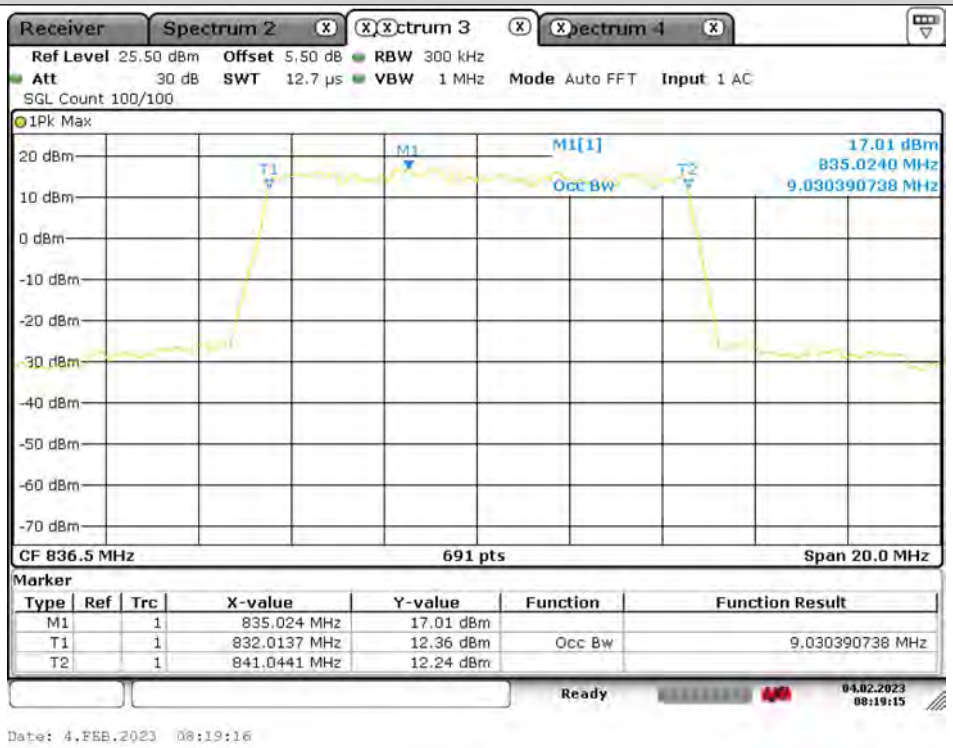

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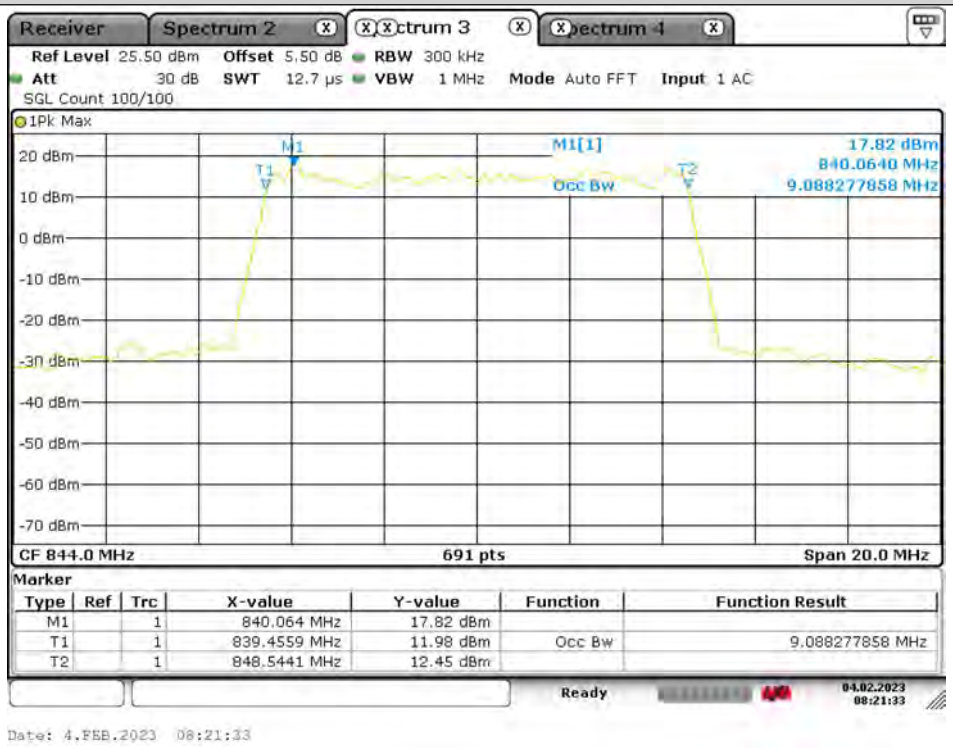

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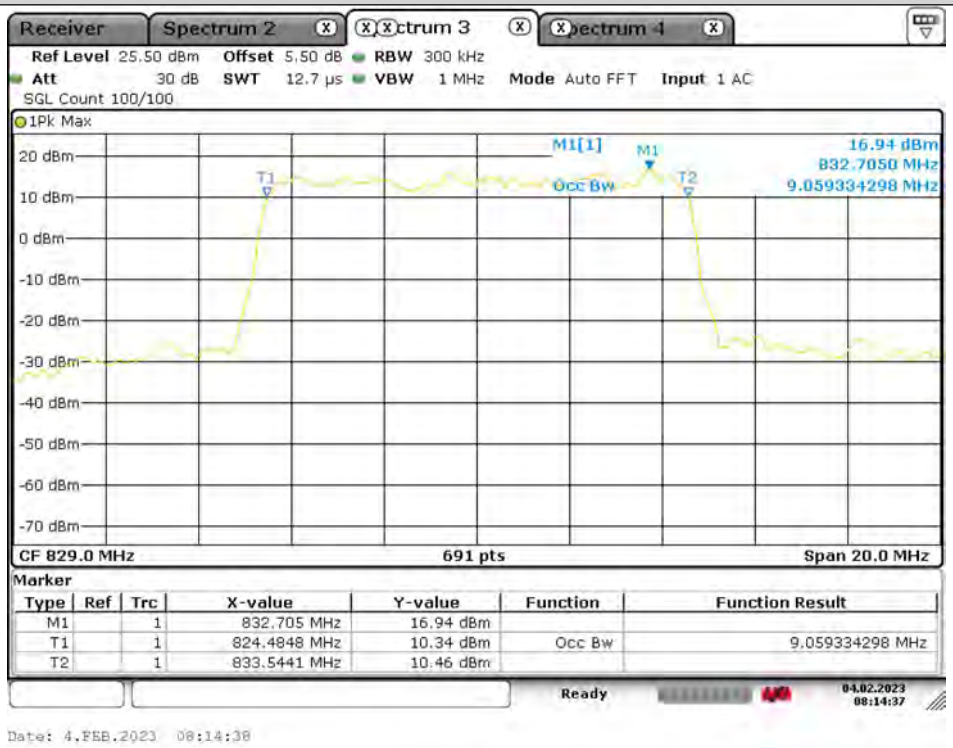

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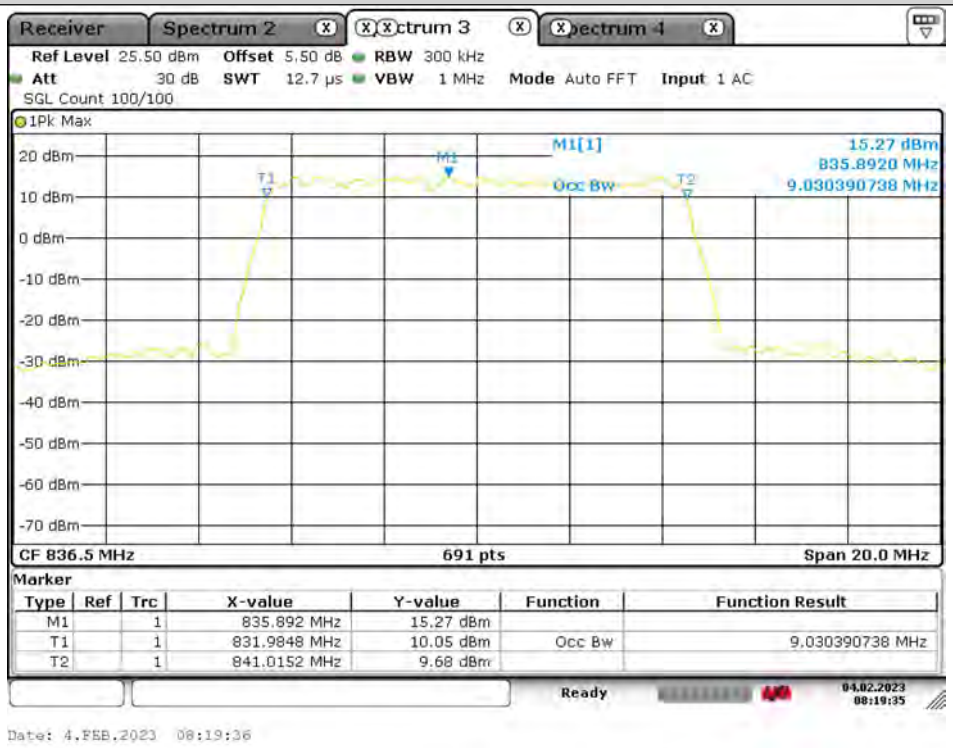

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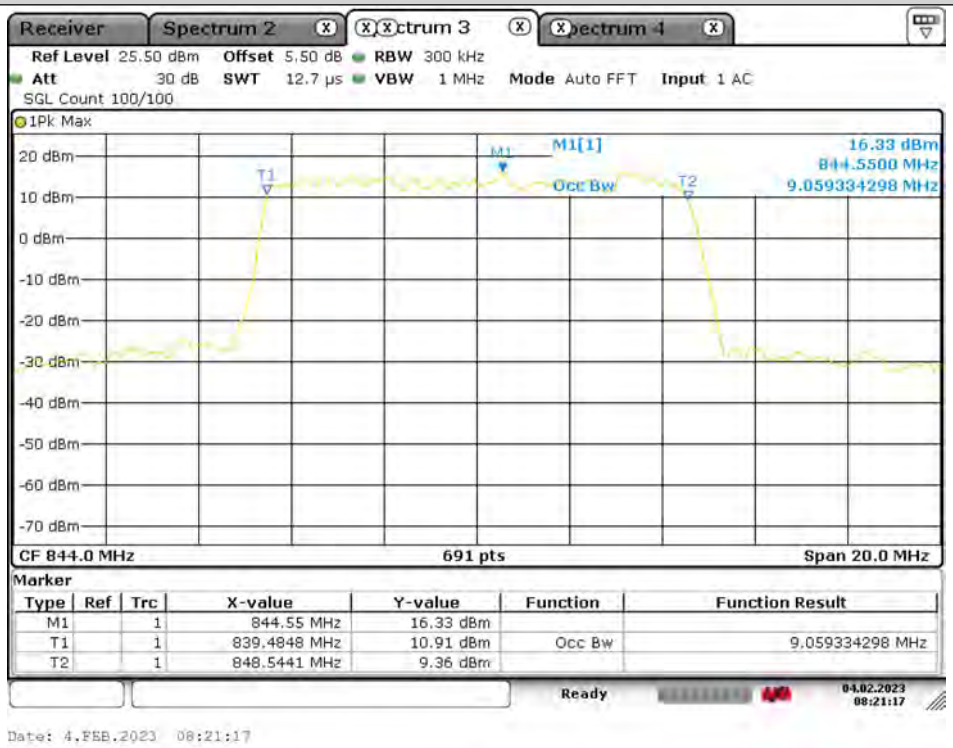

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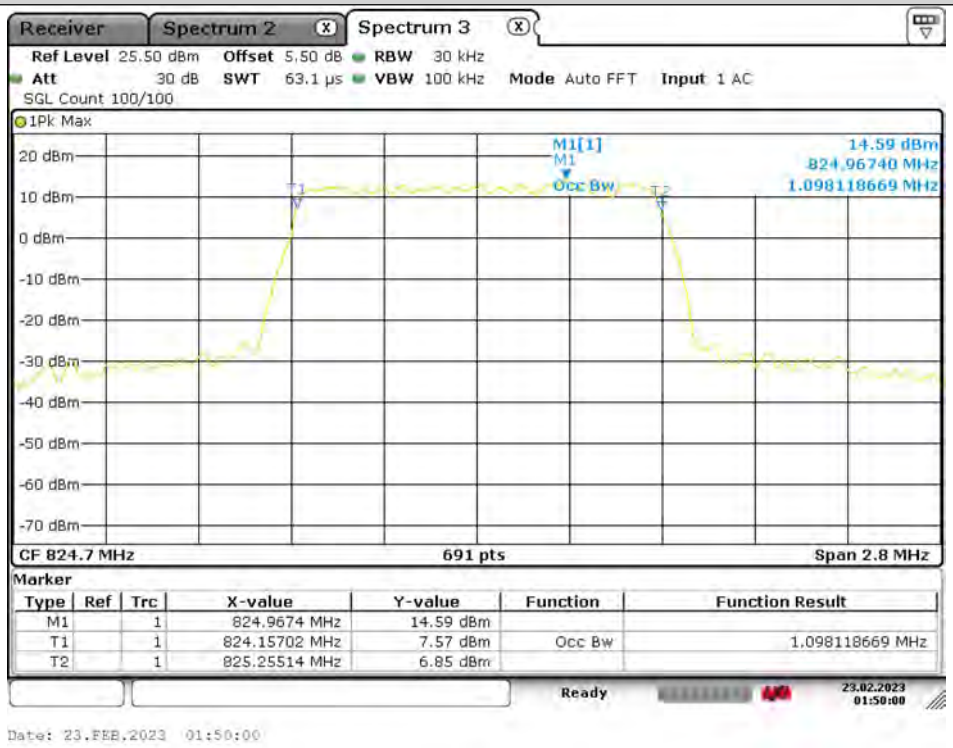

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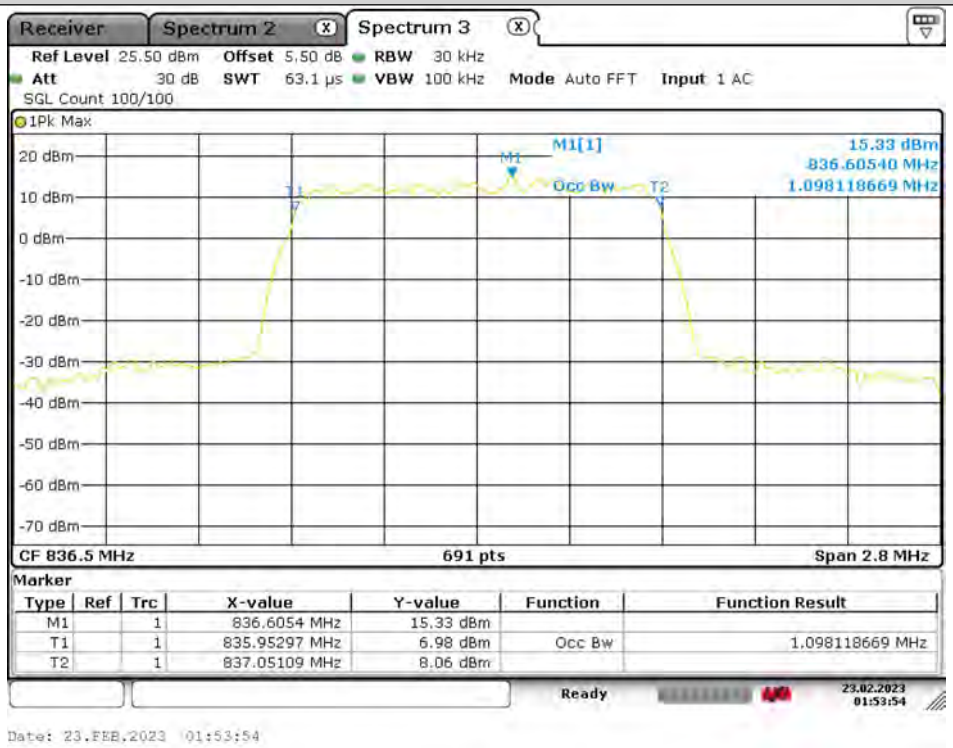

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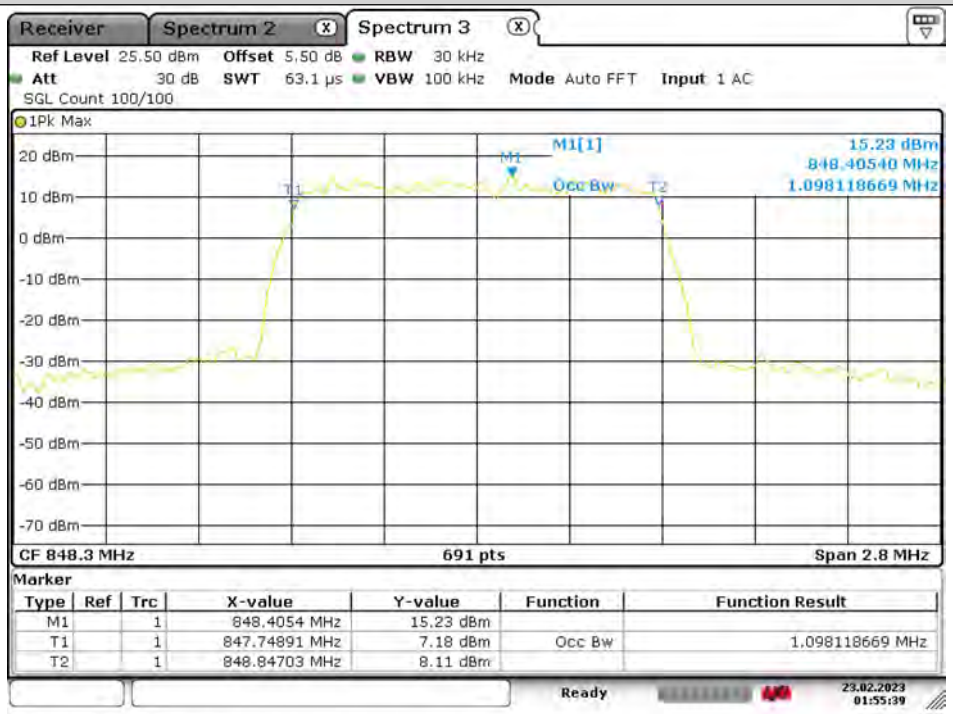

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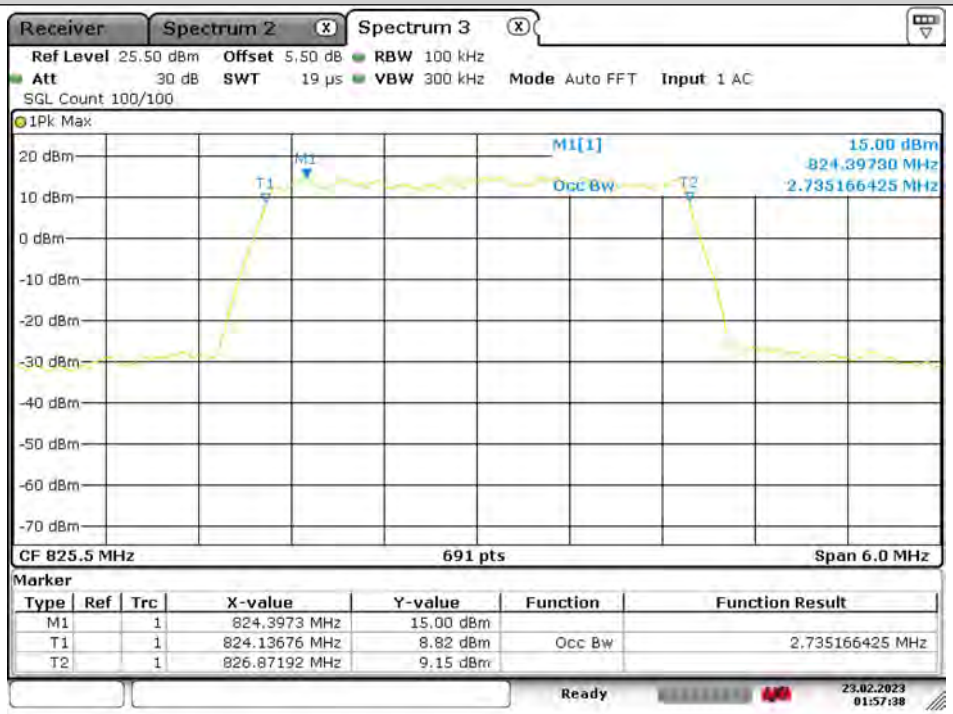

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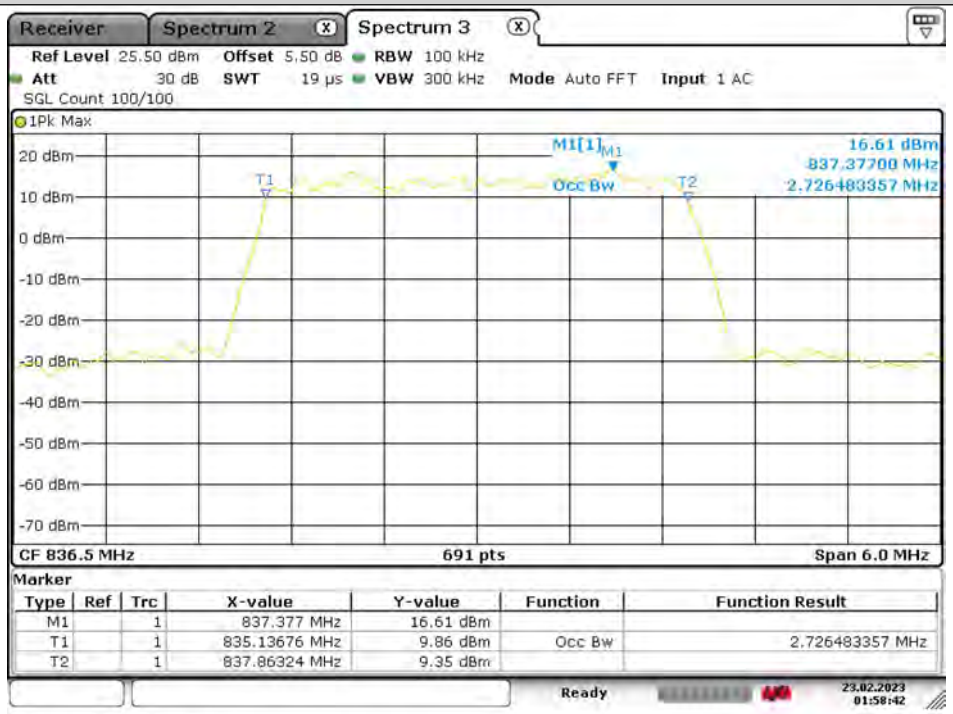

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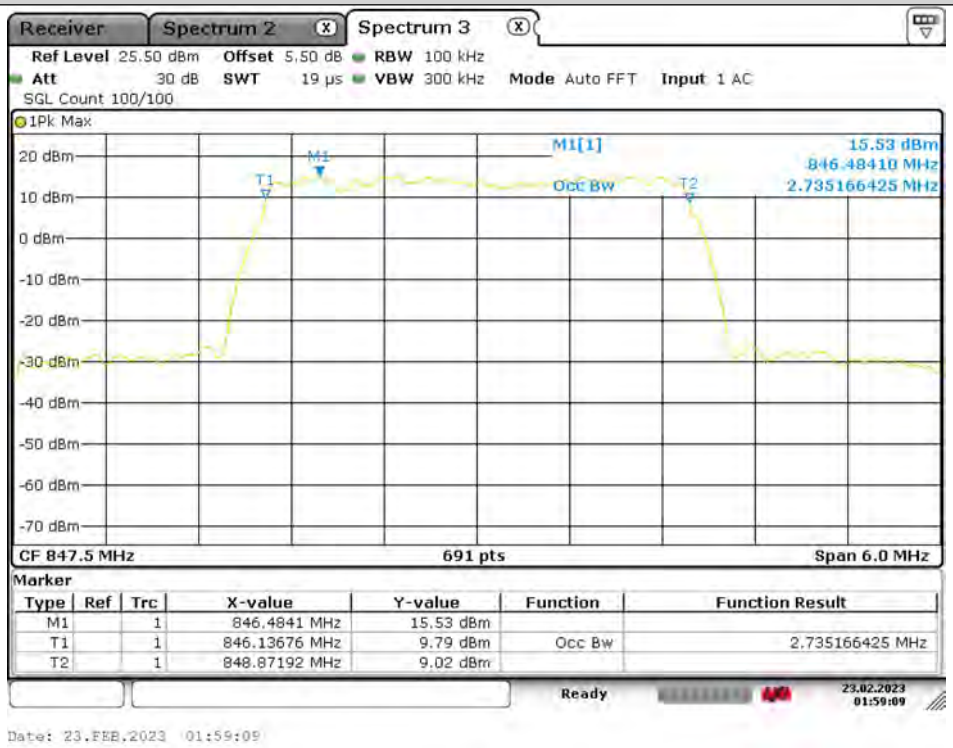

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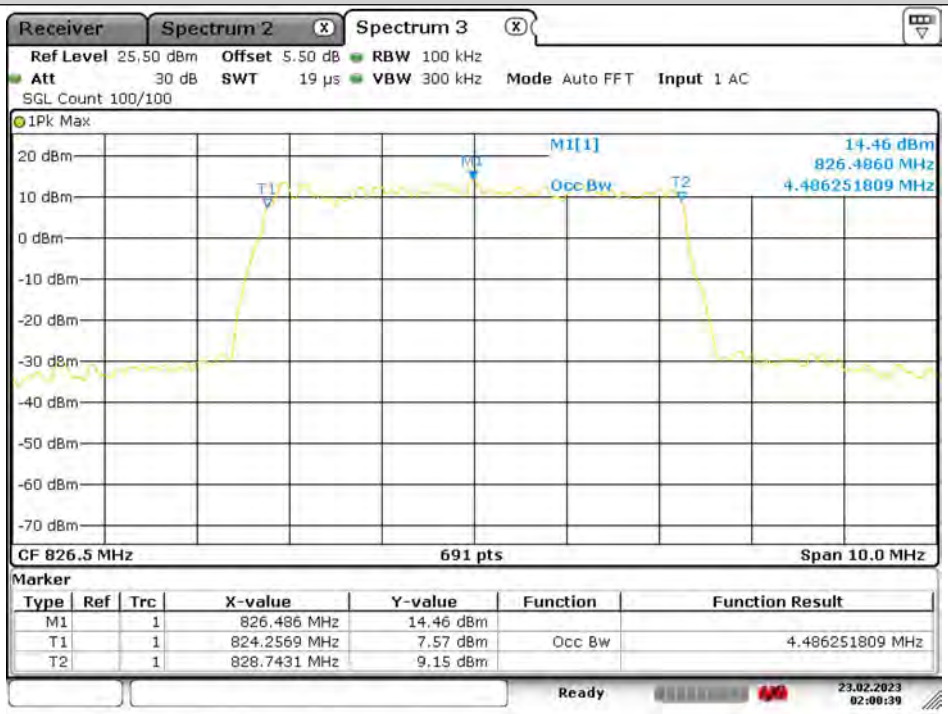

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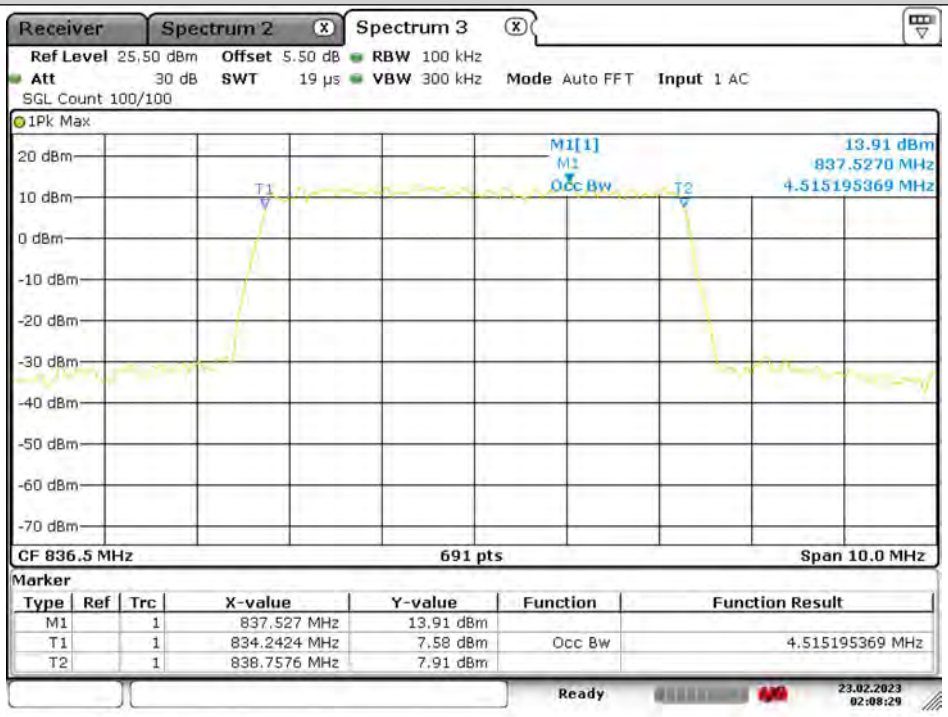

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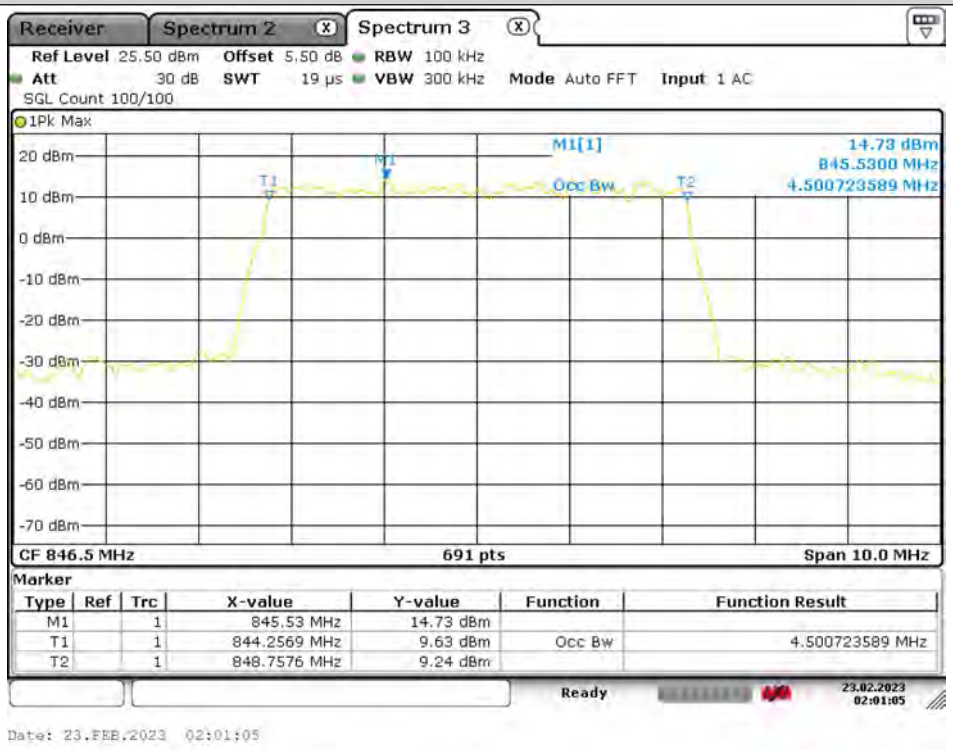
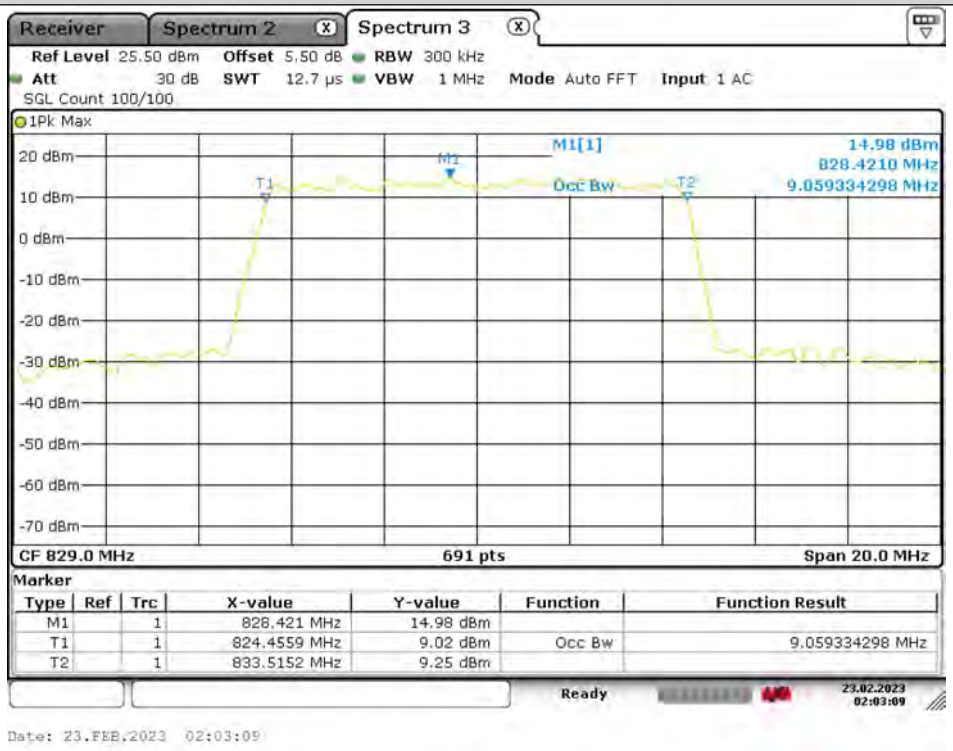


Band5-10MHz-64QAM-20450-50RB#0



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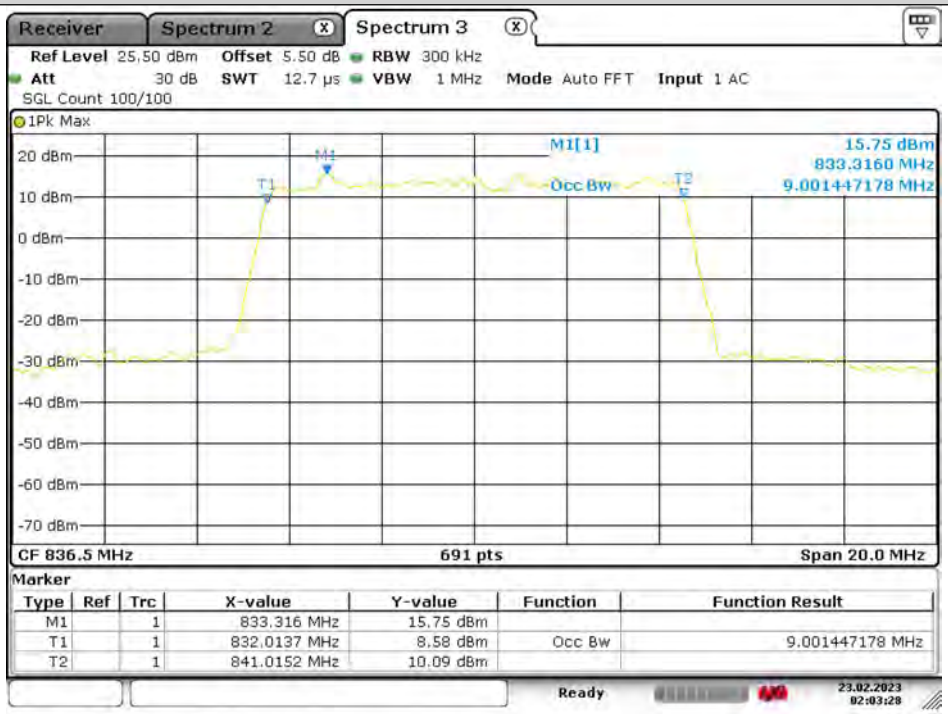
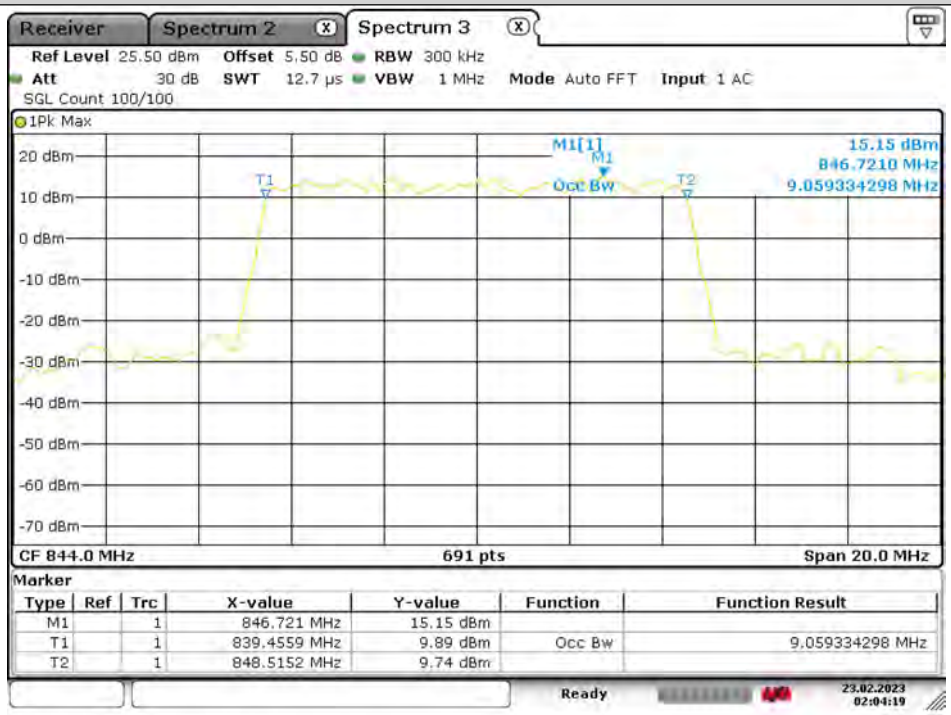


Band5-10MHz-64QAM-20600-50RB#0



BAND EDGE

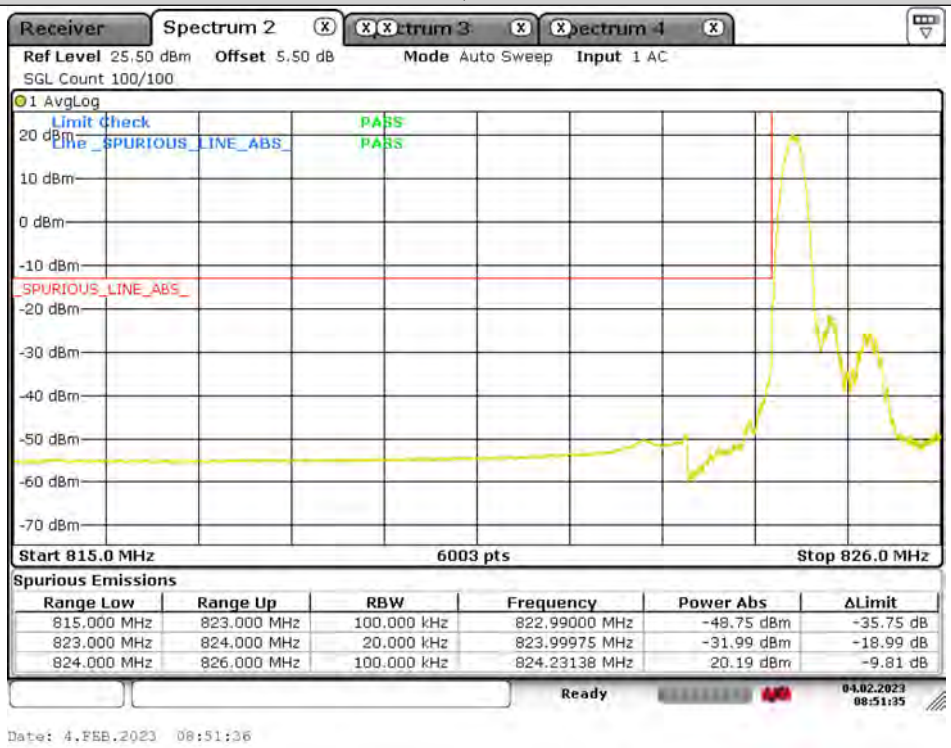
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-31.99	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-36.41	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-33.94	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-37.59	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-33.87	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-37.5	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-35.1	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-39.75	PASS
Band5	3MHz	QPSK	20415	1RB#0	-22.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	-33.36	PASS
Band5	3MHz	QPSK	20635	1RB#14	-24.75	PASS
Band5	3MHz	QPSK	20635	15RB#0	-32.59	PASS
Band5	3MHz	16QAM	20415	1RB#0	-22.54	PASS
Band5	3MHz	16QAM	20415	15RB#0	-32.94	PASS
Band5	3MHz	16QAM	20635	1RB#14	-24.76	PASS
Band5	3MHz	16QAM	20635	15RB#0	-33.93	PASS
Band5	5MHz	QPSK	20425	1RB#0	-32.21	PASS
Band5	5MHz	QPSK	20425	25RB#0	-36.38	PASS
Band5	5MHz	QPSK	20625	1RB#24	-32.17	PASS
Band5	5MHz	QPSK	20625	25RB#0	-37.53	PASS
Band5	5MHz	16QAM	20425	1RB#0	-32.86	PASS
Band5	5MHz	16QAM	20425	25RB#0	-36.14	PASS
Band5	5MHz	16QAM	20625	1RB#24	-31.94	PASS
Band5	5MHz	16QAM	20625	25RB#0	-37.73	PASS
Band5	10MHz	QPSK	20450	1RB#0	-38.99	PASS
Band5	10MHz	QPSK	20450	50RB#0	-38.15	PASS
Band5	10MHz	QPSK	20600	1RB#49	-38.82	PASS
Band5	10MHz	QPSK	20600	50RB#0	-38.39	PASS
Band5	10MHz	16QAM	20450	1RB#0	-40.38	PASS
Band5	10MHz	16QAM	20450	50RB#0	-37.29	PASS
Band5	10MHz	16QAM	20600	1RB#49	-40.21	PASS
Band5	10MHz	16QAM	20600	50RB#0	-38.54	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	-36.68	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	-38.50	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	-37.81	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	-39.62	PASS
Band5	3MHz	64QAM	20415	1RB#0	-26.48	PASS
Band5	3MHz	64QAM	20415	15RB#0	-33.68	PASS
Band5	3MHz	64QAM	20635	1RB#14	-26.33	PASS
Band5	3MHz	64QAM	20635	15RB#0	-33.13	PASS
Band5	5MHz	64QAM	20425	1RB#0	-33.54	PASS
Band5	5MHz	64QAM	20425	25RB#0	-38.05	PASS
Band5	5MHz	64QAM	20625	1RB#24	-31.53	PASS
Band5	5MHz	64QAM	20625	25RB#0	-37.28	PASS
Band5	10MHz	64QAM	20450	1RB#0	-41.17	PASS

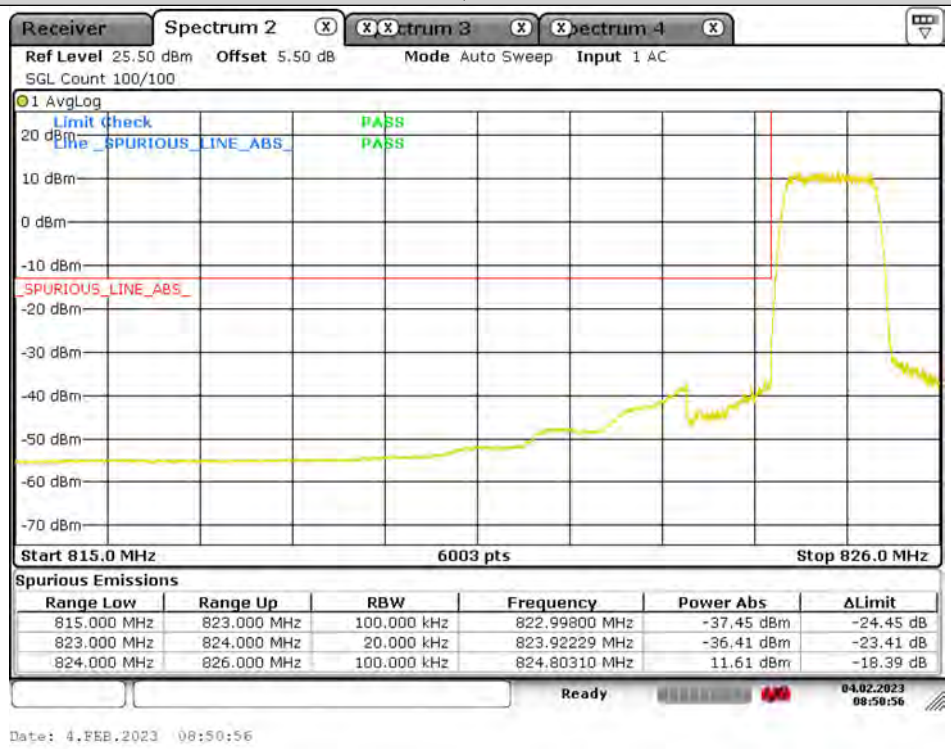
Band5	10MHz	64QAM	20450	50RB#0	-38.21	PASS
Band5	10MHz	64QAM	20600	1RB#49	-40.65	PASS
Band5	10MHz	64QAM	20600	50RB#0	-38.75	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0



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



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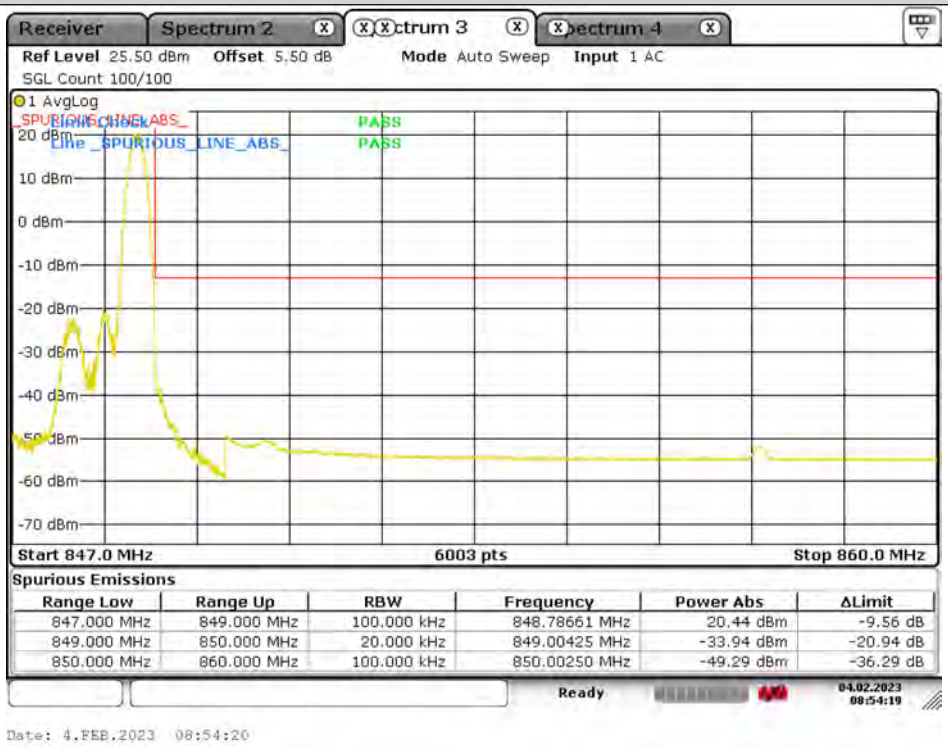
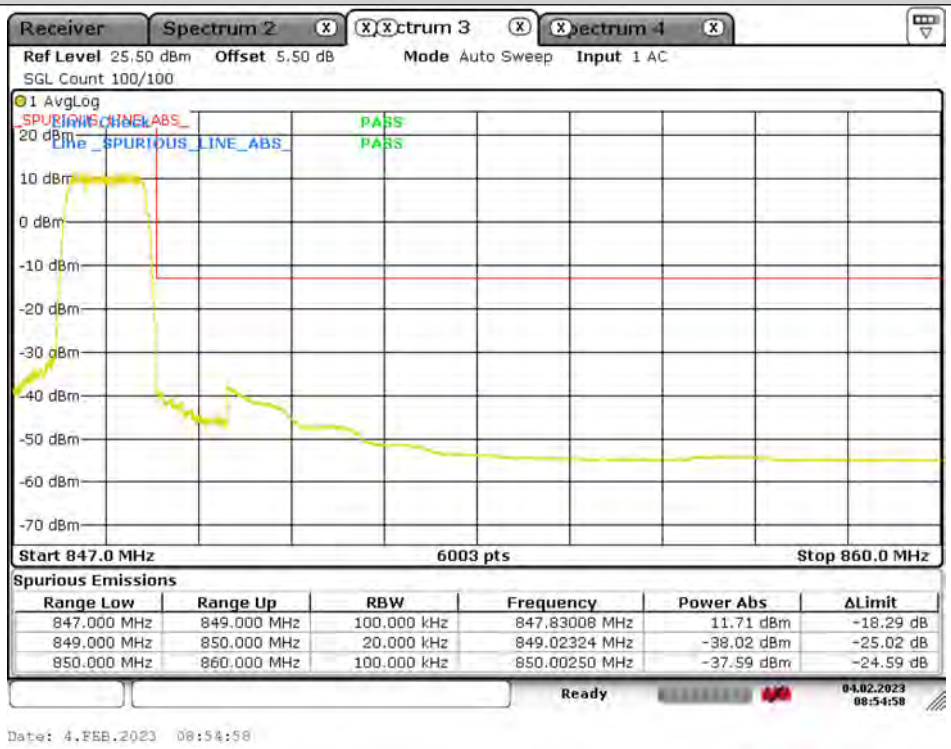
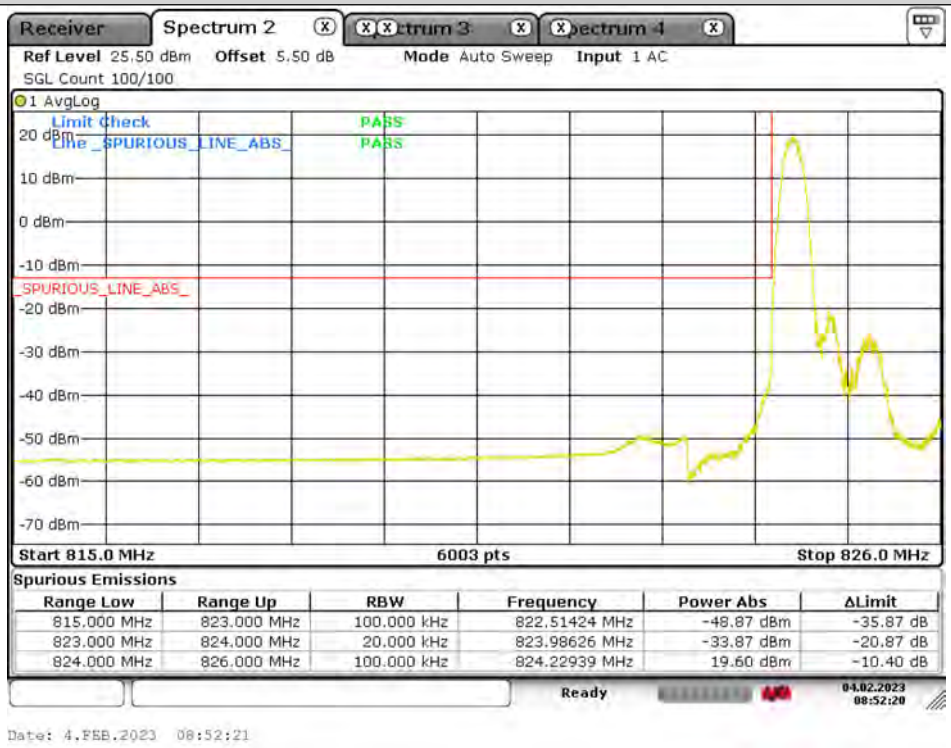


Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-16QAM-20407-1RB#0



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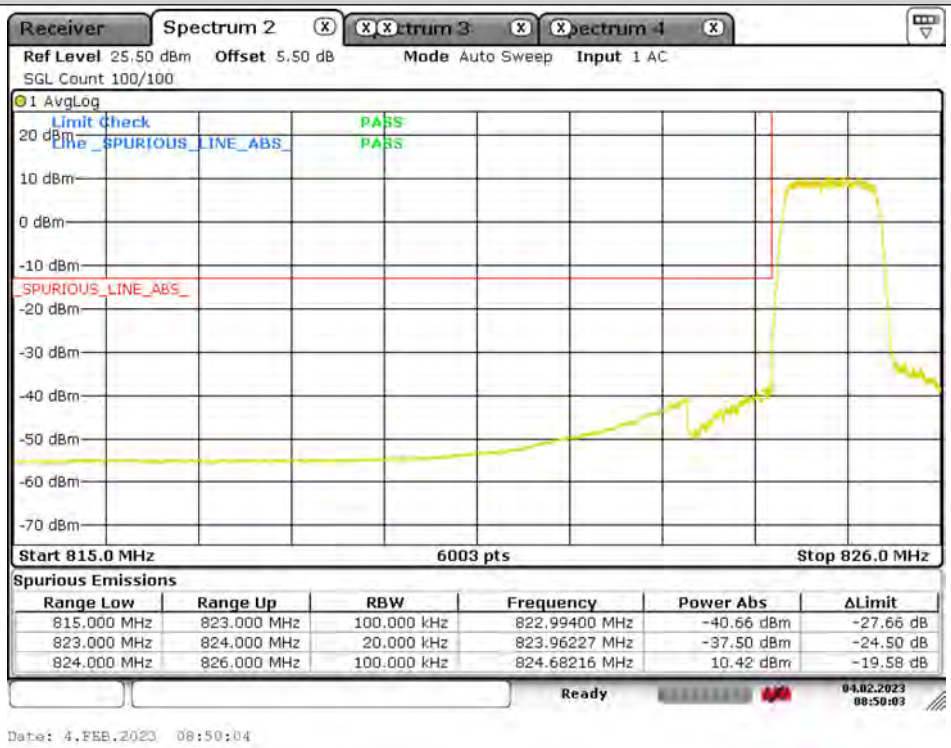

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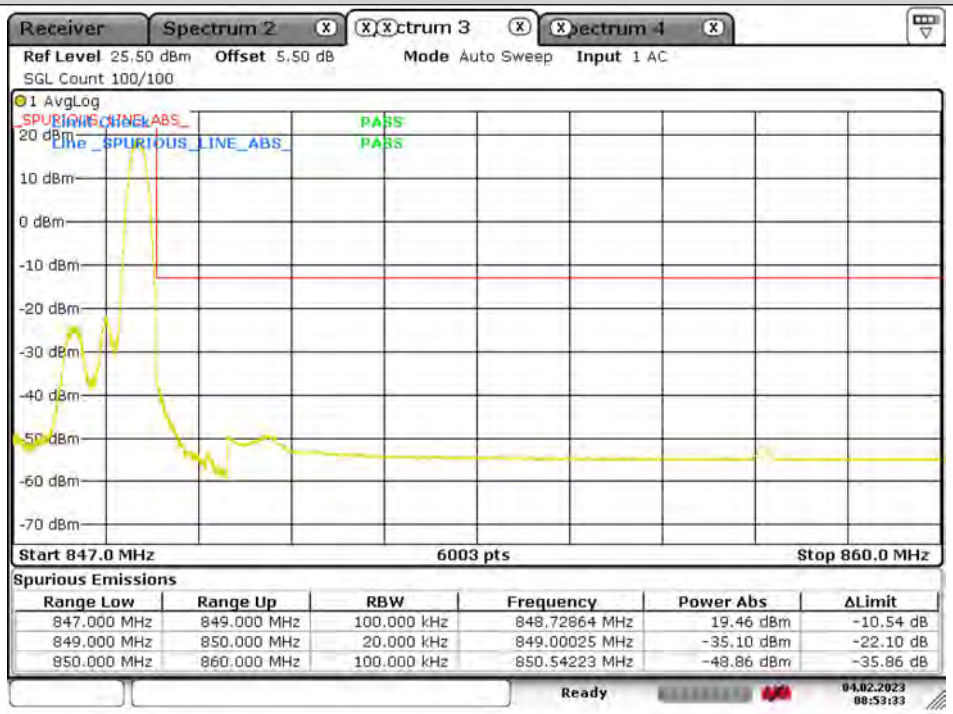
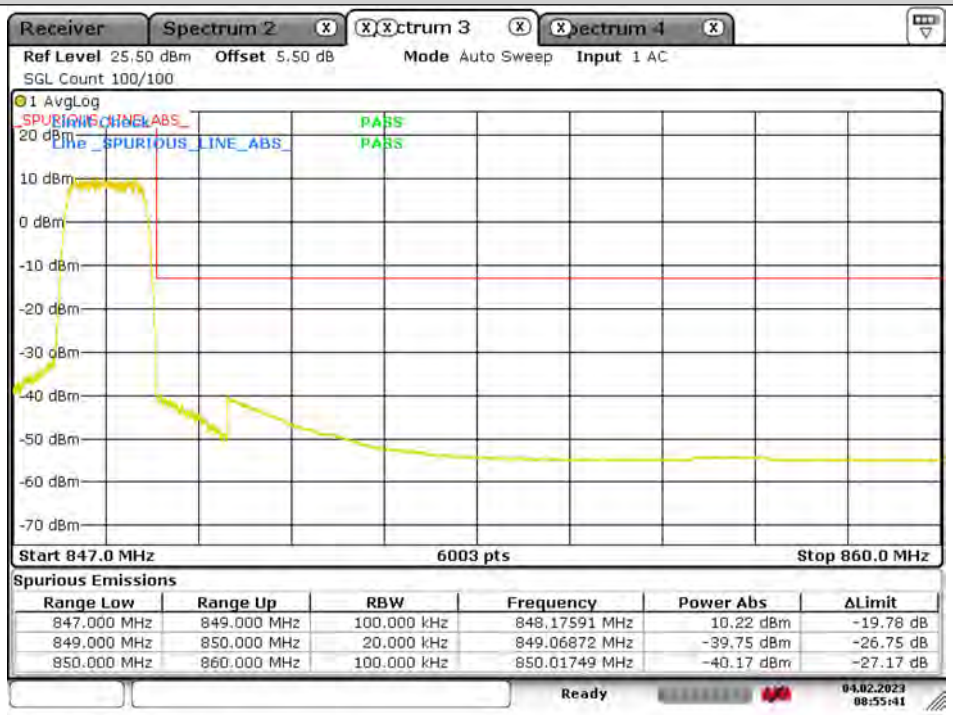


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.72864 MHz	19.46 dBm	-10.54 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00025 MHz	-35.10 dBm	-22.10 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.54223 MHz	-48.86 dBm	-35.86 dB

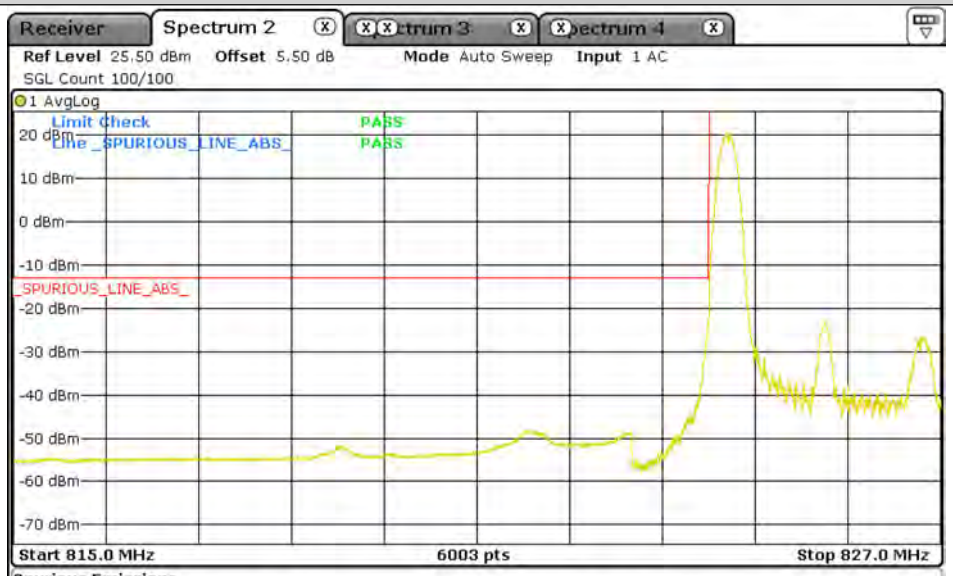
Band5-1.4MHz-16QAM-20643-6RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.17591 MHz	10.22 dBm	-19.78 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.06872 MHz	-39.75 dBm	-26.75 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.01749 MHz	-40.17 dBm	-27.17 dB

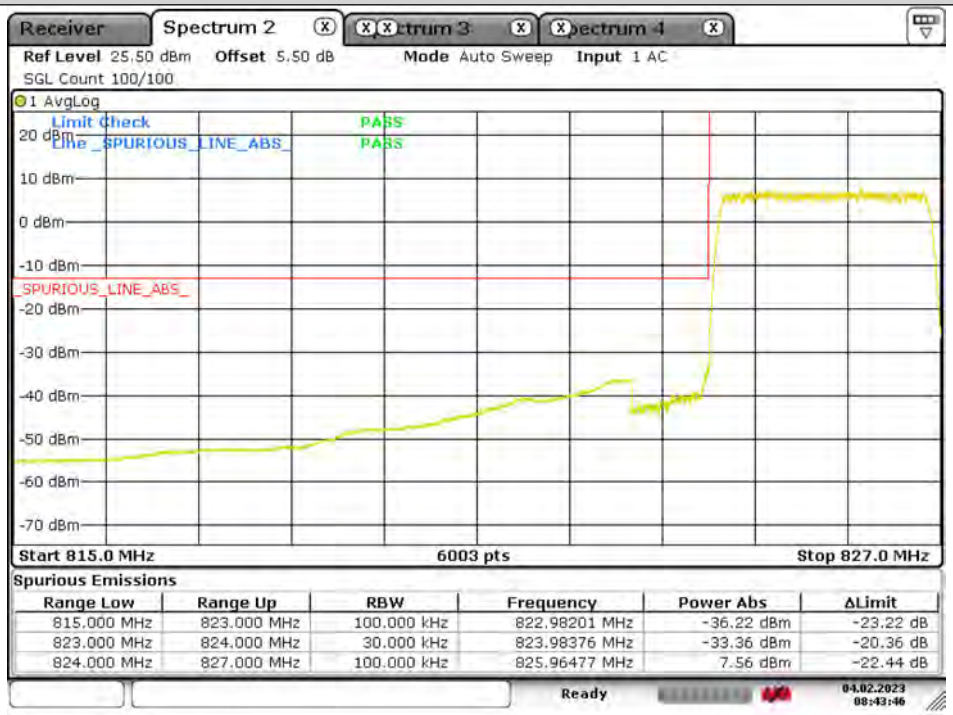
Band5-3MHz-QPSK-20415-1RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	821.61069 MHz	-48.12 dBm	-35.12 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99975 MHz	-22.25 dBm	-9.25 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.23313 MHz	20.41 dBm	-9.59 dB

Date: 4.FEB.2023 08:44:18

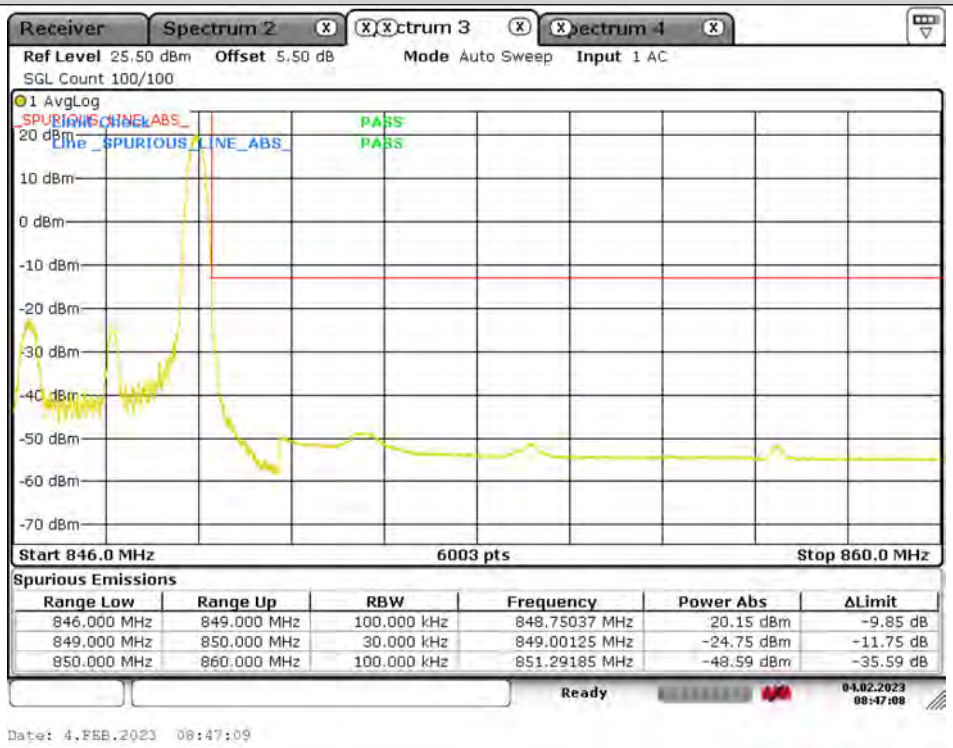
Band5-3MHz-QPSK-20415-15RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98201 MHz	-36.22 dBm	-23.22 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.98376 MHz	-33.36 dBm	-20.36 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.96477 MHz	7.56 dBm	-22.44 dB

Date: 4.FEB.2023 08:43:47

Band5-3MHz-QPSK-20635-1RB#14



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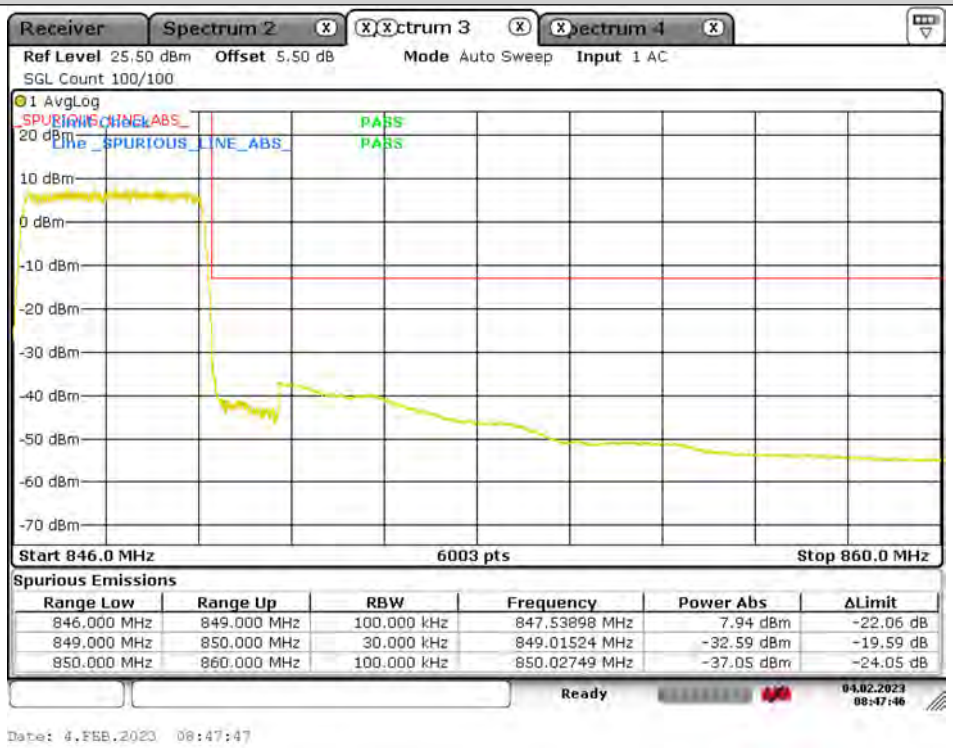
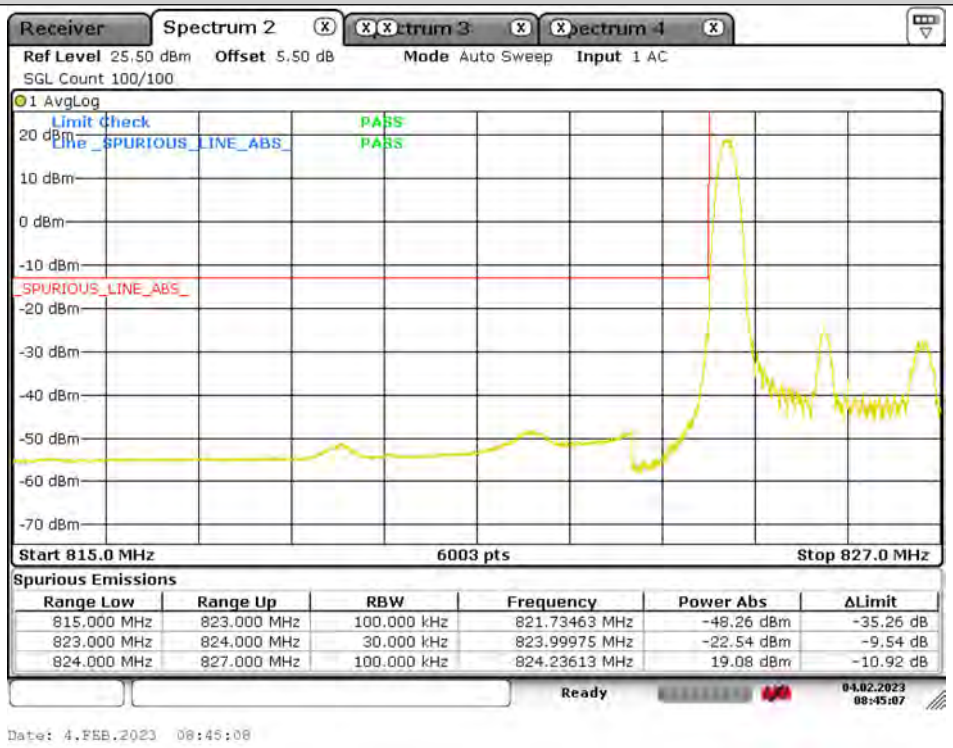


Band5-3MHz-16QAM-20415-1RB#0



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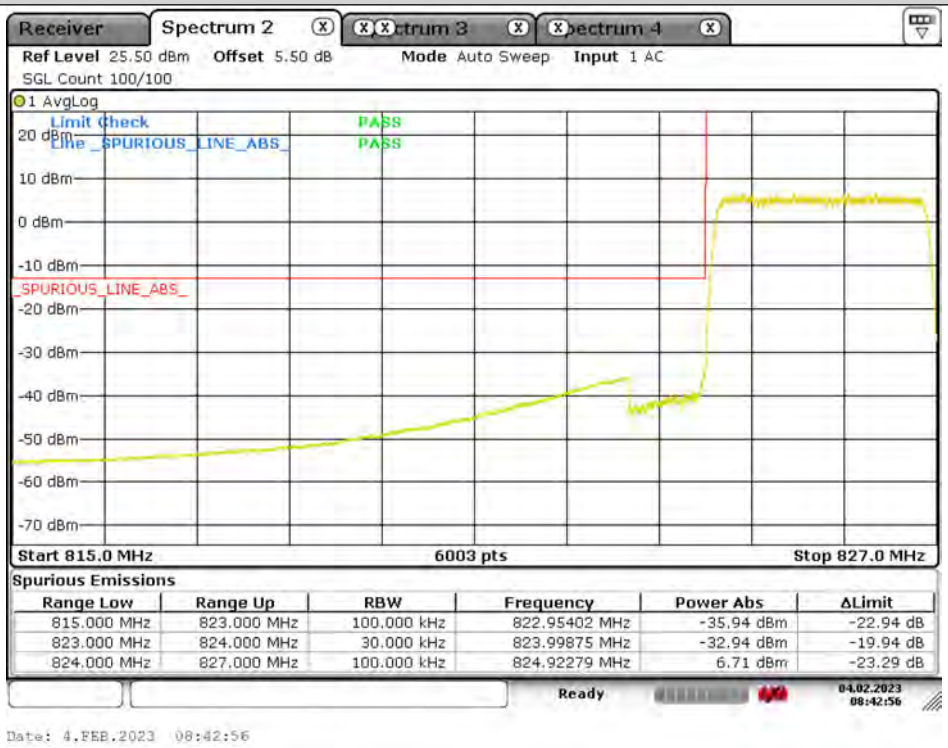

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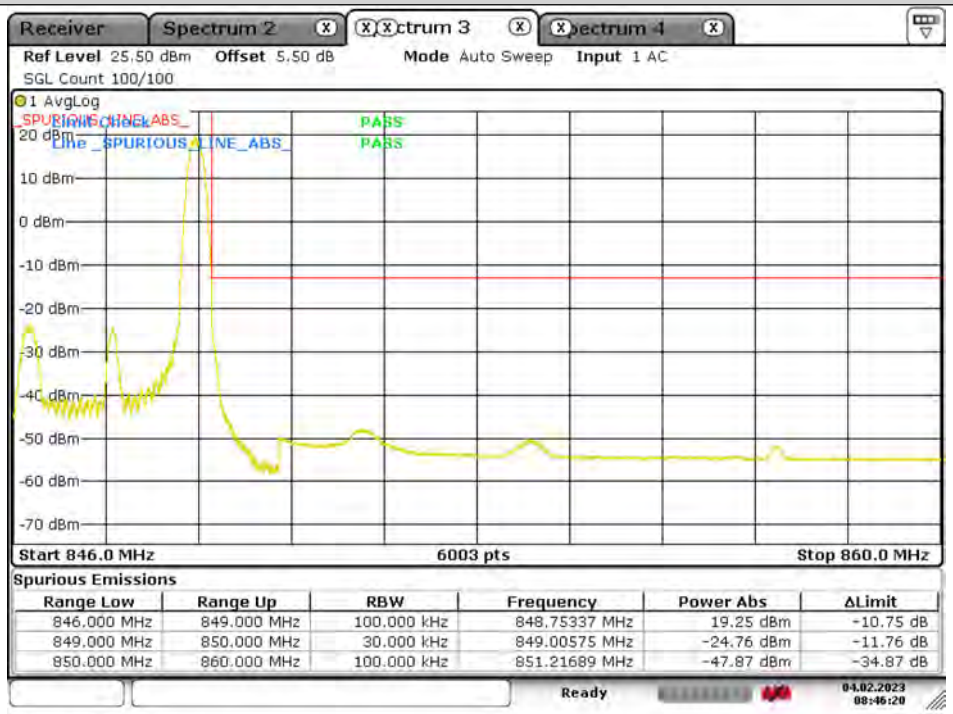
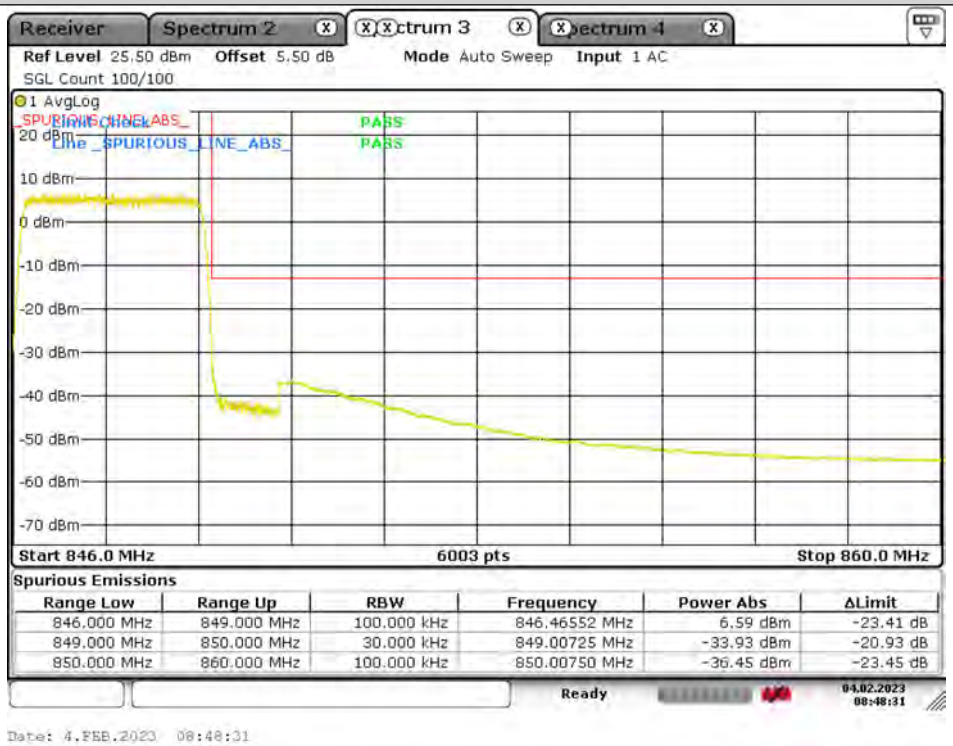


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.75337 MHz	19.25 dBm	-10.75 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00575 MHz	-24.76 dBm	-11.76 dB
850.000 MHz	860.000 MHz	100.000 kHz	851.21689 MHz	-47.87 dBm	-34.87 dB

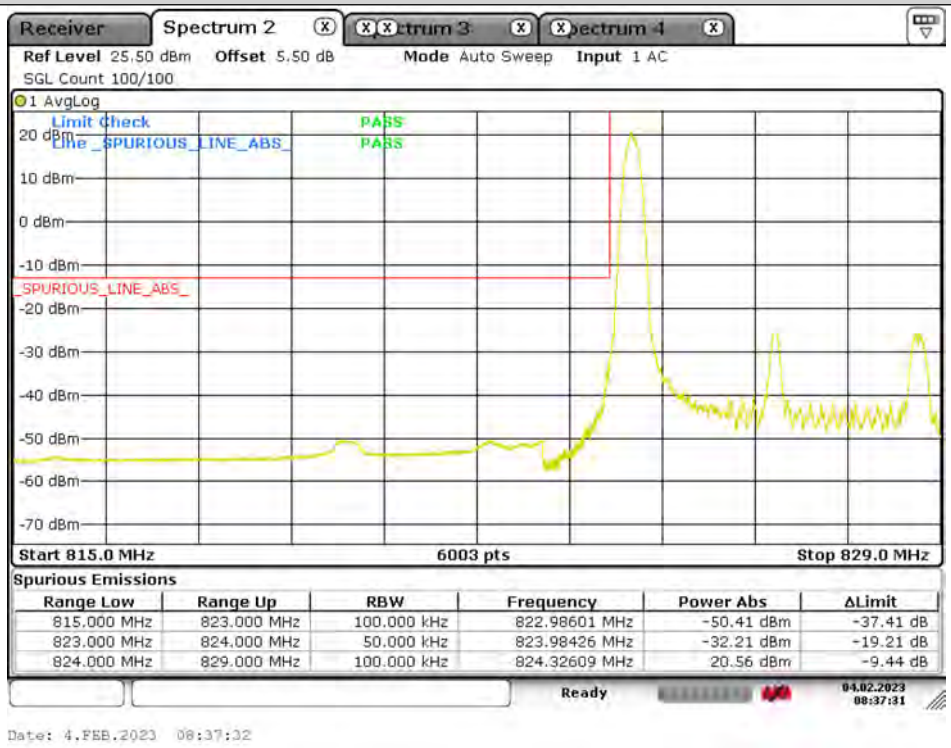
Band5-3MHz-16QAM-20635-15RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	846.46552 MHz	6.59 dBm	-23.41 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00725 MHz	-33.93 dBm	-20.93 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.00750 MHz	-36.45 dBm	-23.45 dB

Band5-5MHz-QPSK-20425-1RB#0



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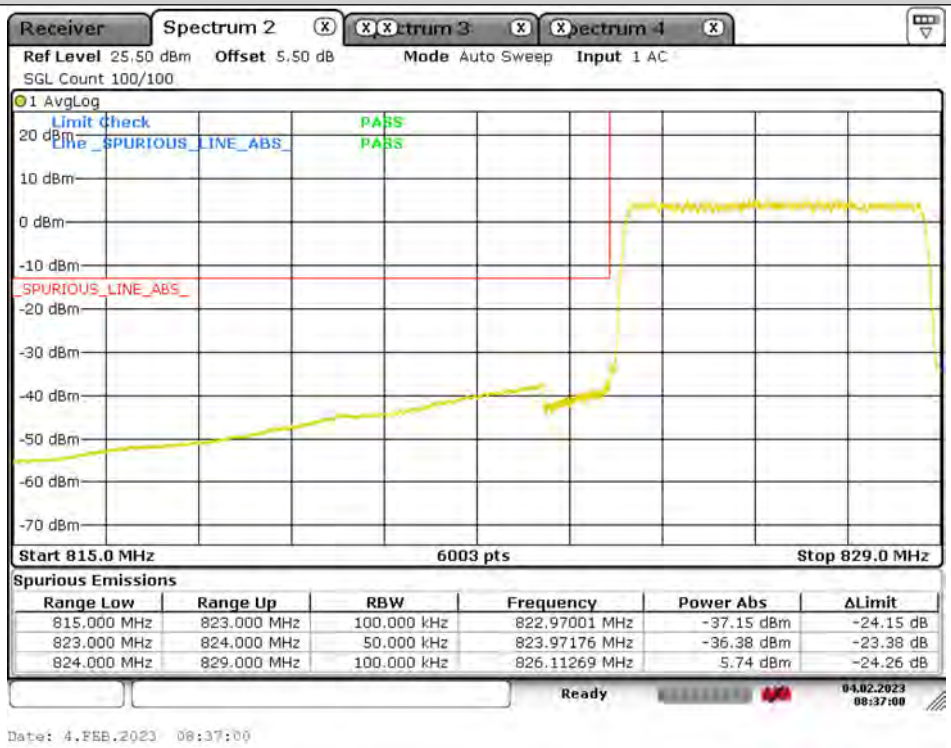
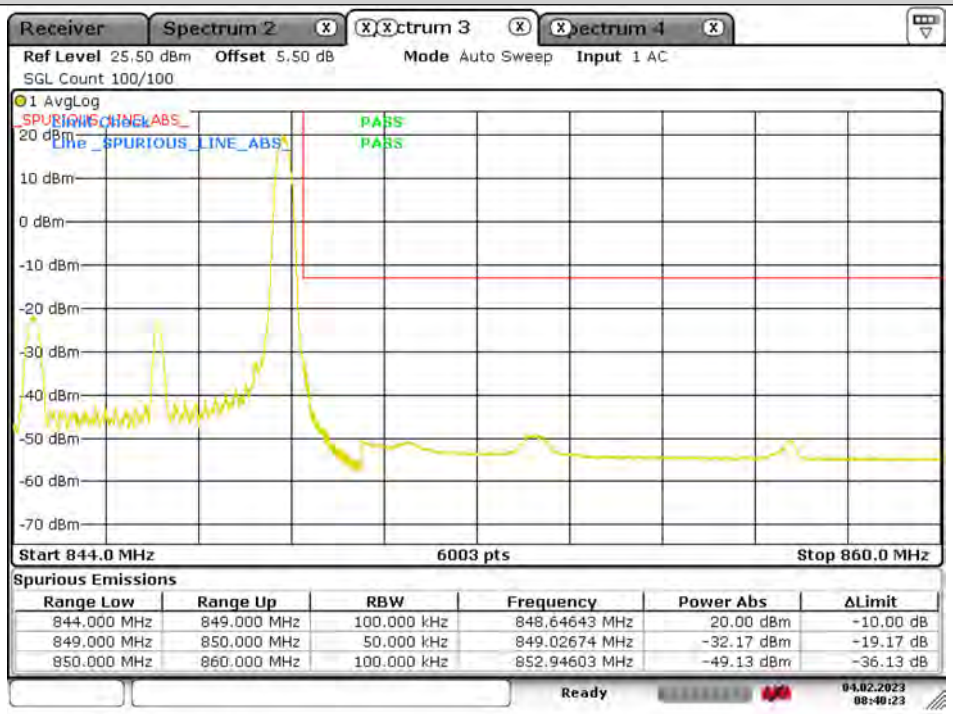
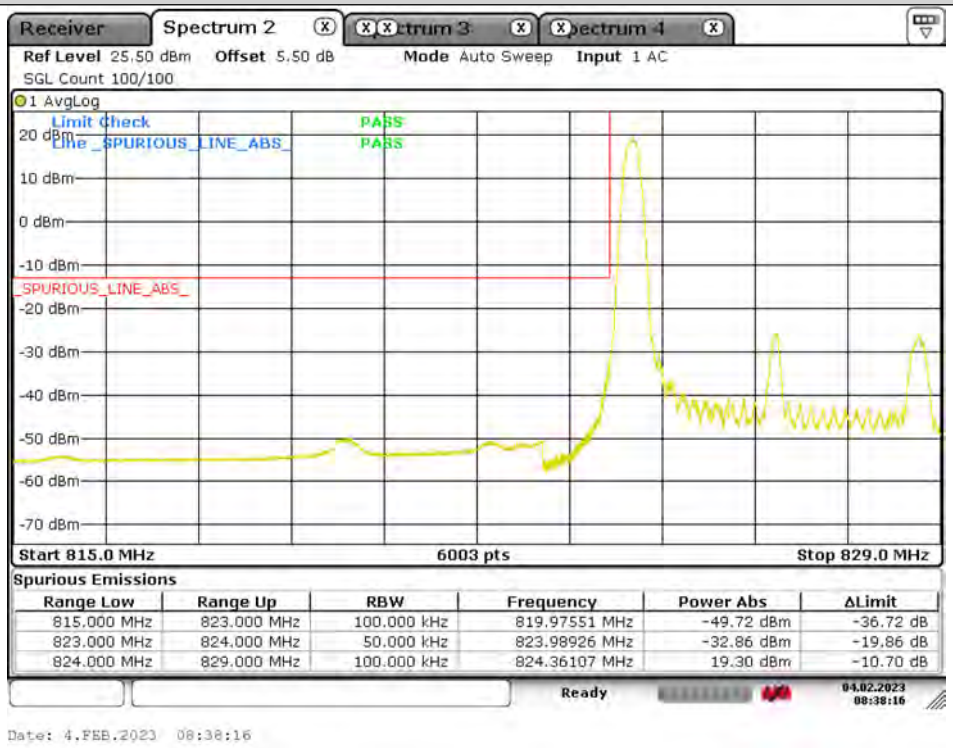


Band5-5MHz-QPSK-20625-1RB#24



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

Band5-5MHz-16QAM-20425-1RB#0



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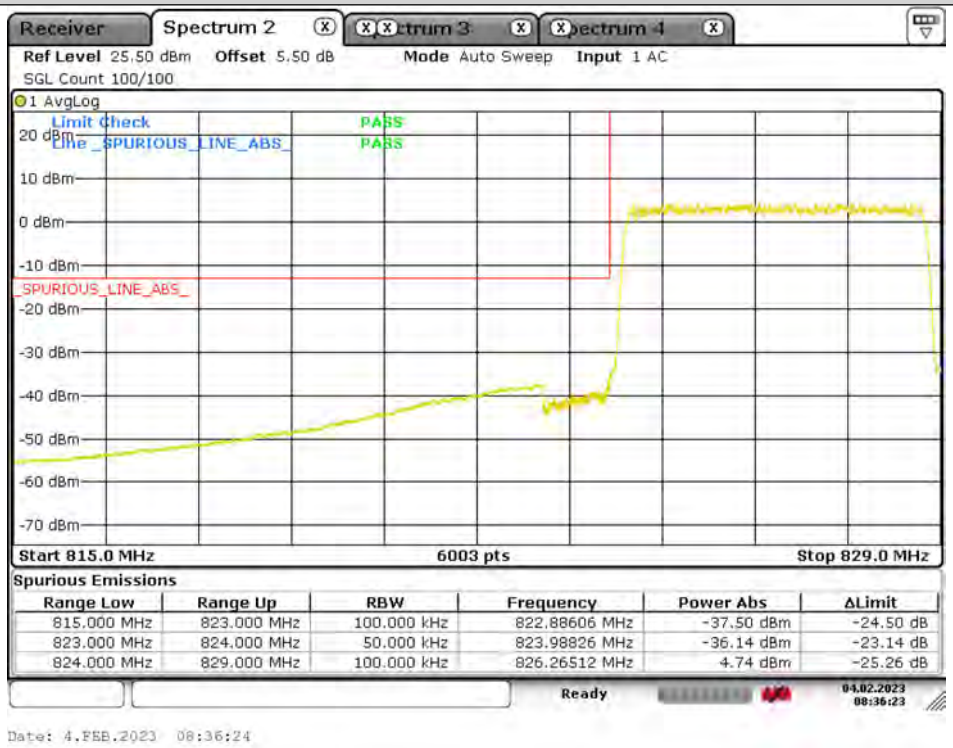

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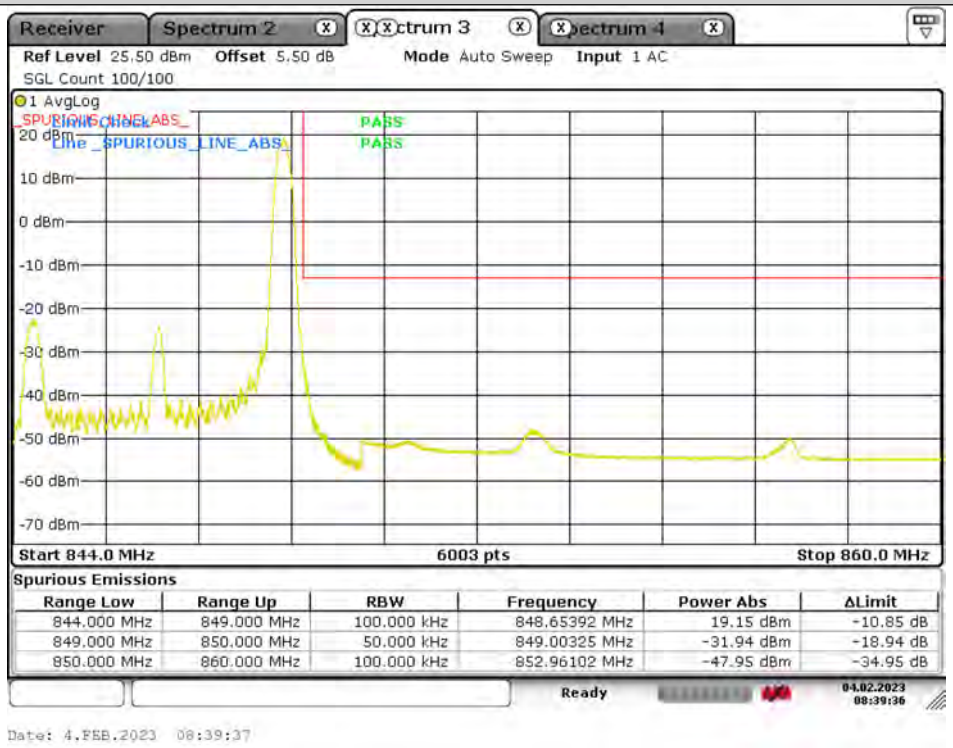

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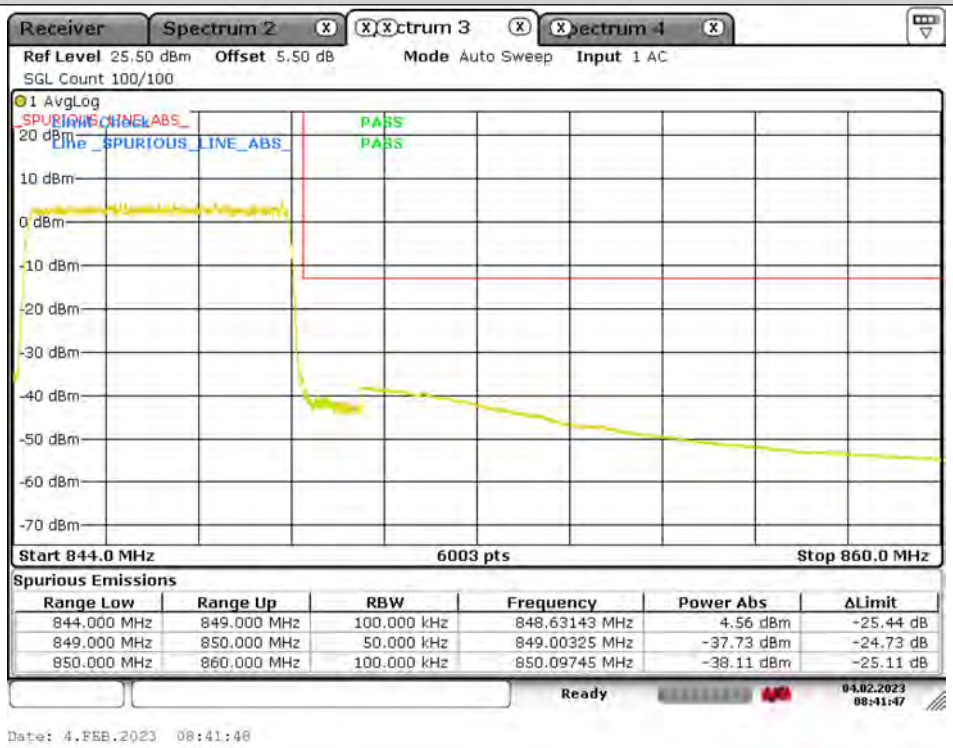
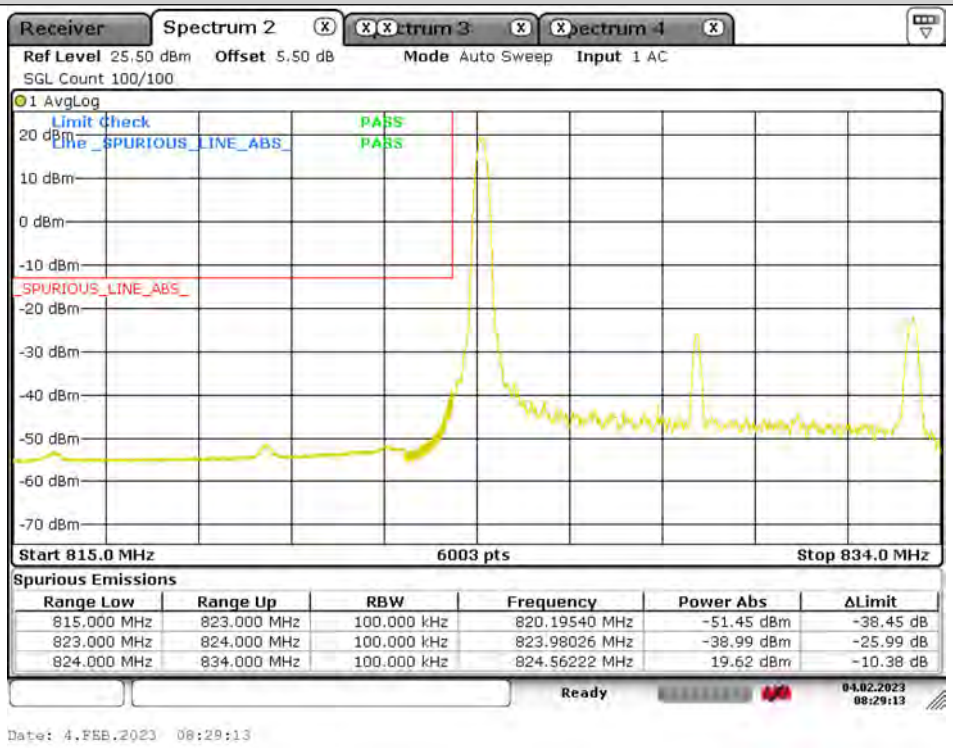
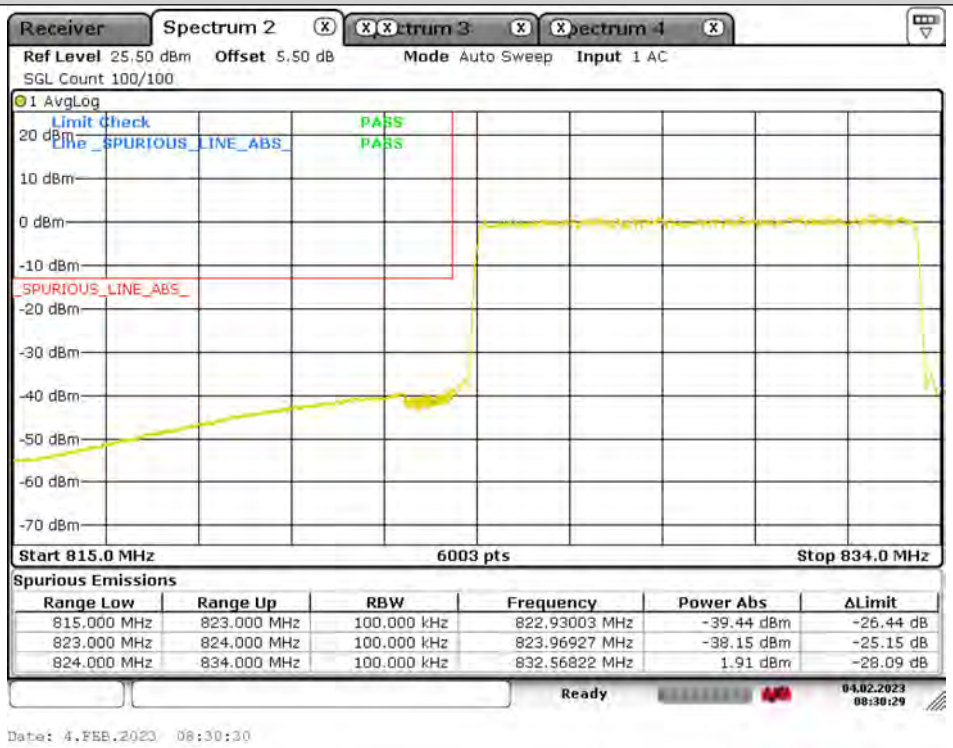


Band5-10MHz-QPSK-20450-1RB#0



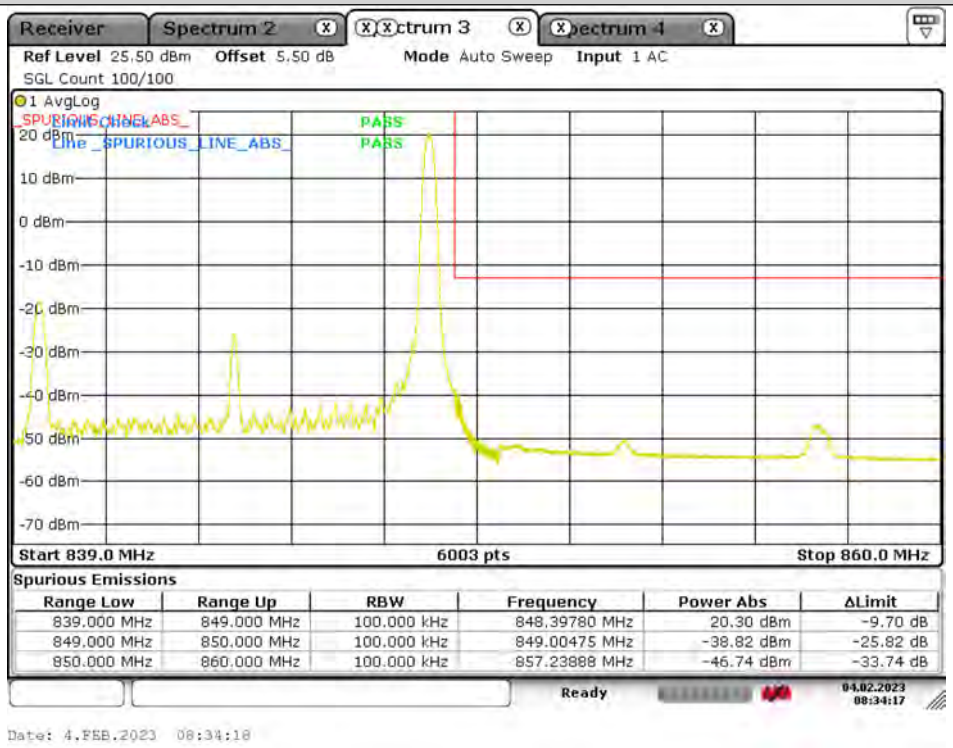
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	820.19540 MHz	-51.45 dBm	-38.45 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.98026 MHz	-38.99 dBm	-25.99 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.56222 MHz	19.62 dBm	-10.38 dB

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

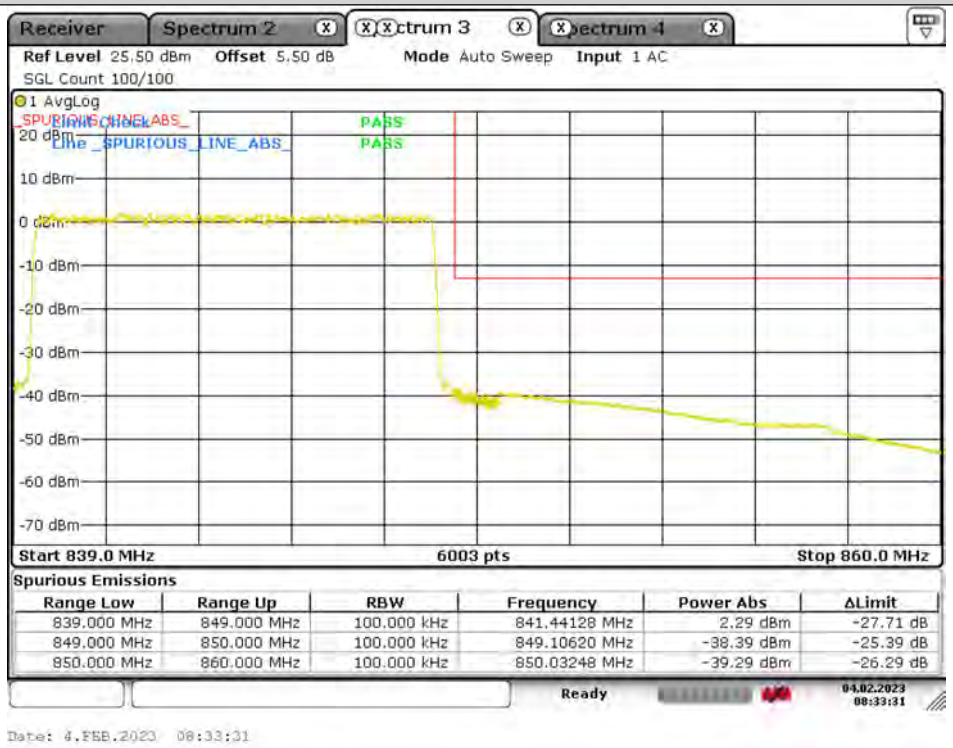


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.93003 MHz	-39.44 dBm	-26.44 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.96927 MHz	-38.15 dBm	-25.15 dB
824.000 MHz	834.000 MHz	100.000 kHz	832.56822 MHz	1.91 dBm	-28.09 dB

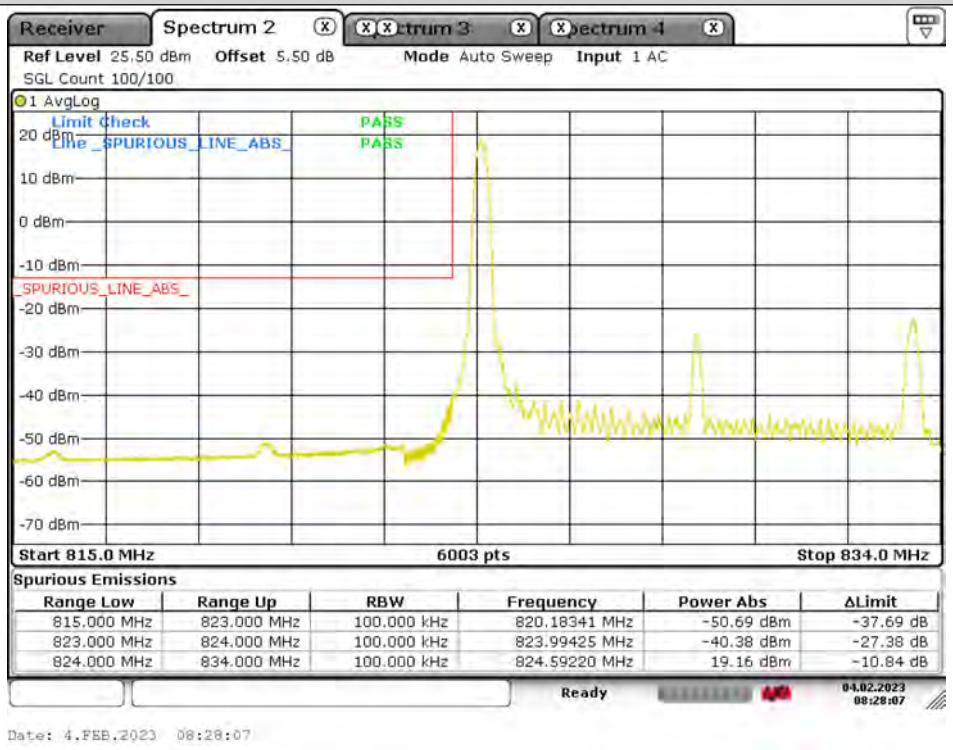
Band5-10MHz-QPSK-20600-1RB#49



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



Band5-10MHz-16QAM-20450-1RB#0



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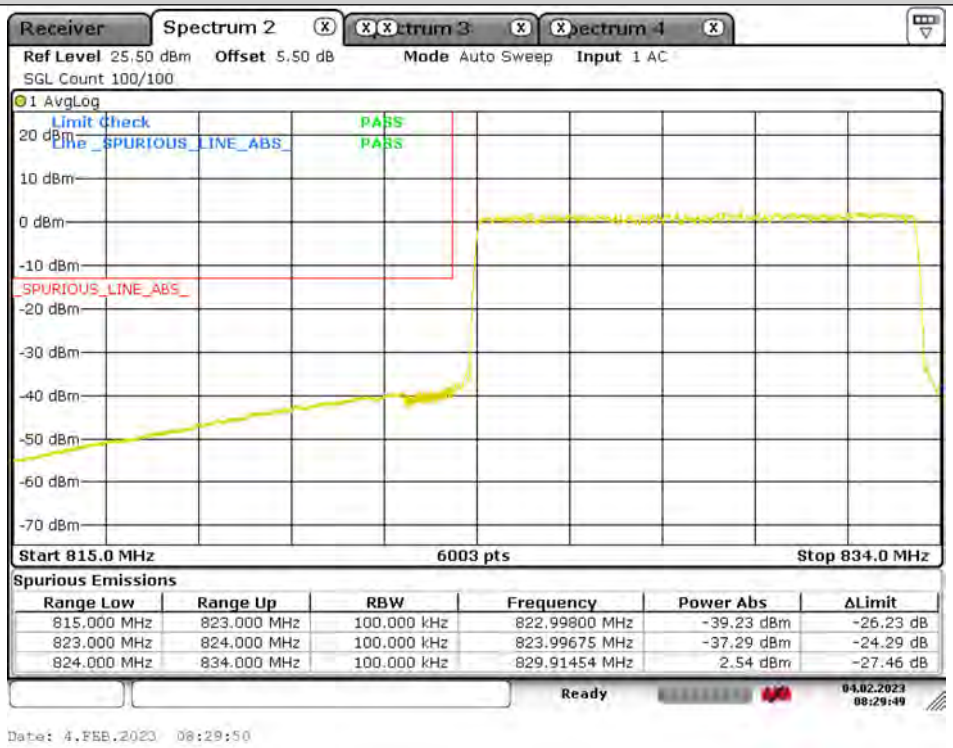

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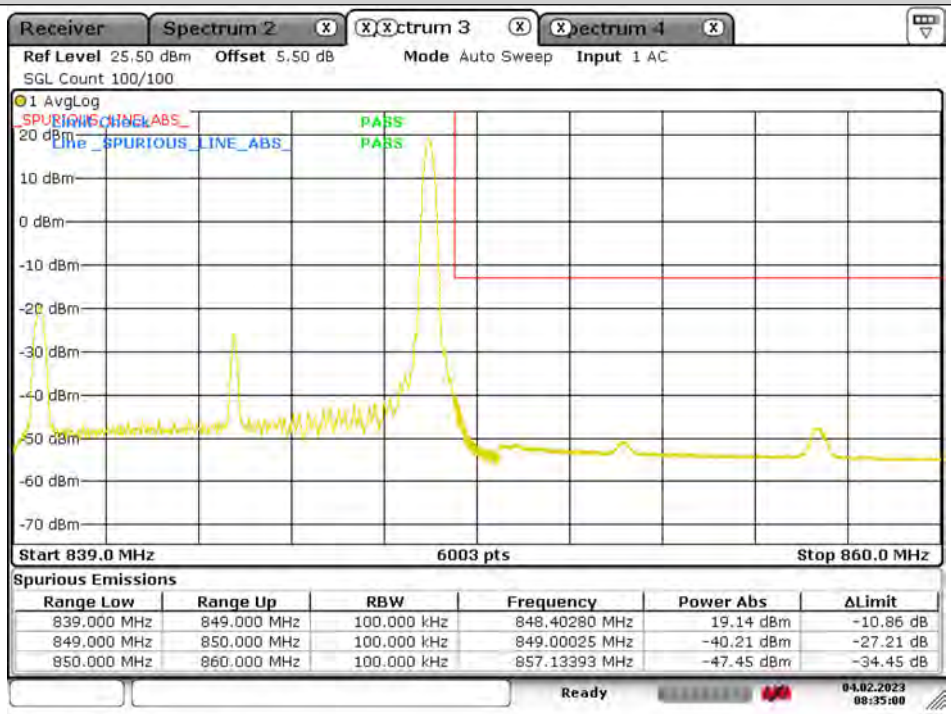
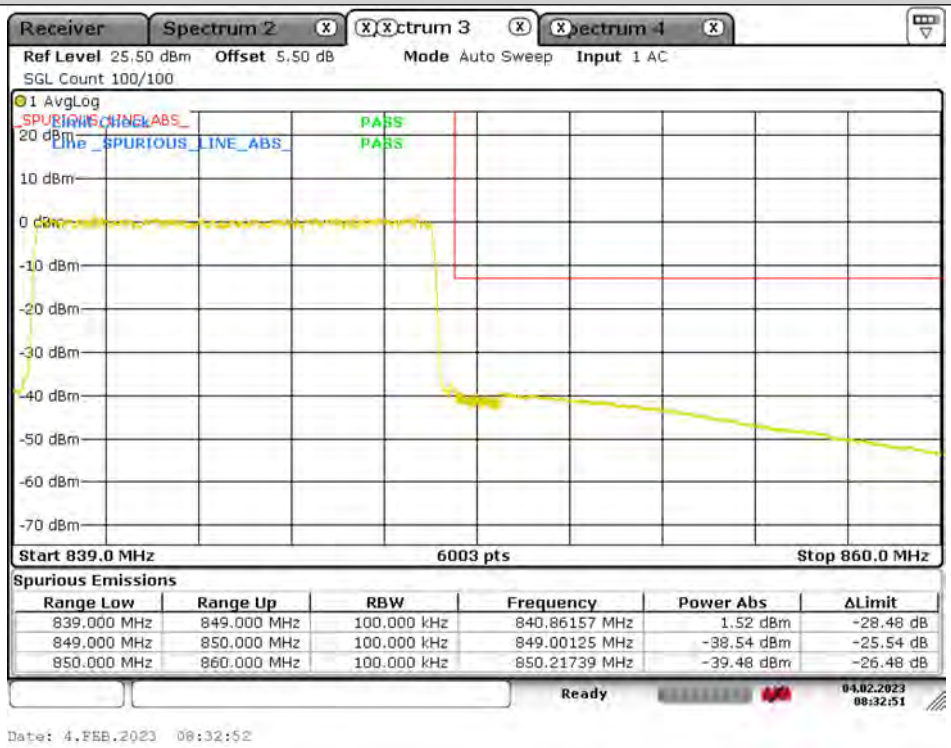
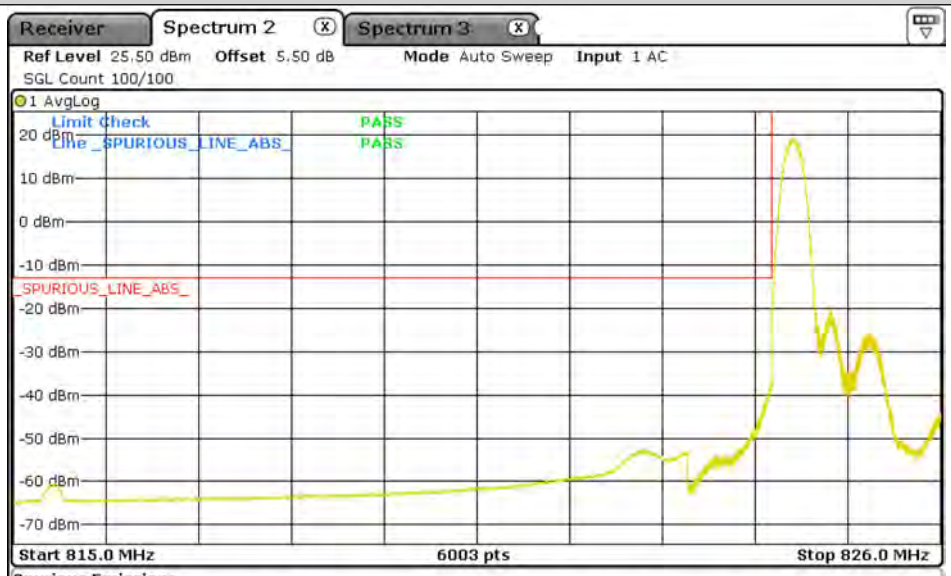


Band5-10MHz-16QAM-20600-50RB#0



Band5-1.4MHz-64QAM-20407-1RB#0



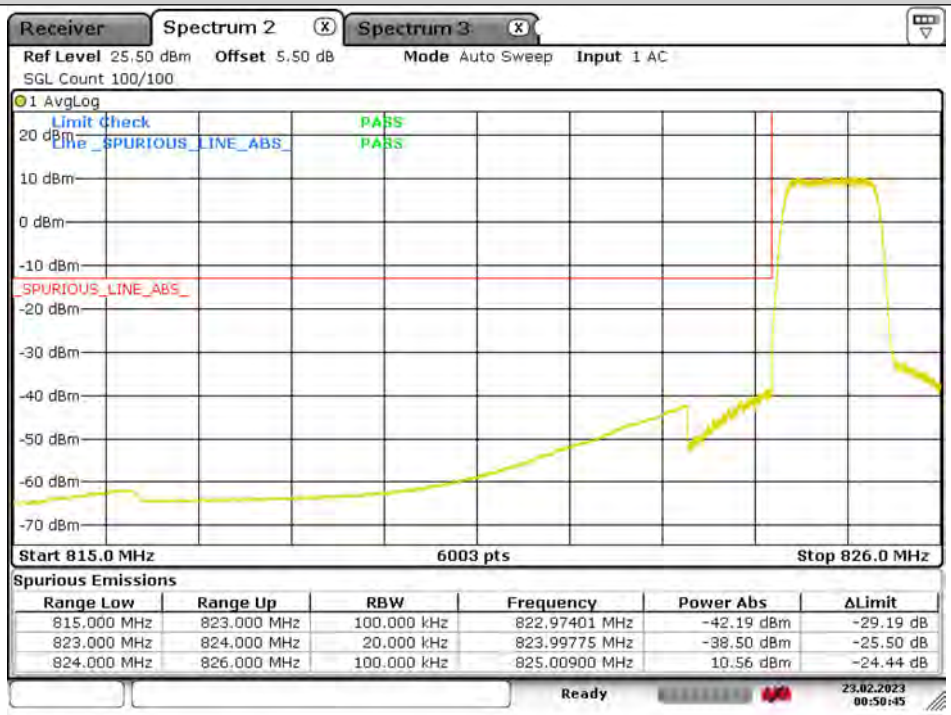
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.45827 MHz	-52.67 dBm	-39.67 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99925 MHz	-36.68 dBm	-23.68 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.24238 MHz	19.34 dBm	-15.66 dB

Ready 23.02.2023 00:51:32

Date: 23.FEB.2023 00:51:32

Band5-1.4MHz-64QAM-20407-6RB#0



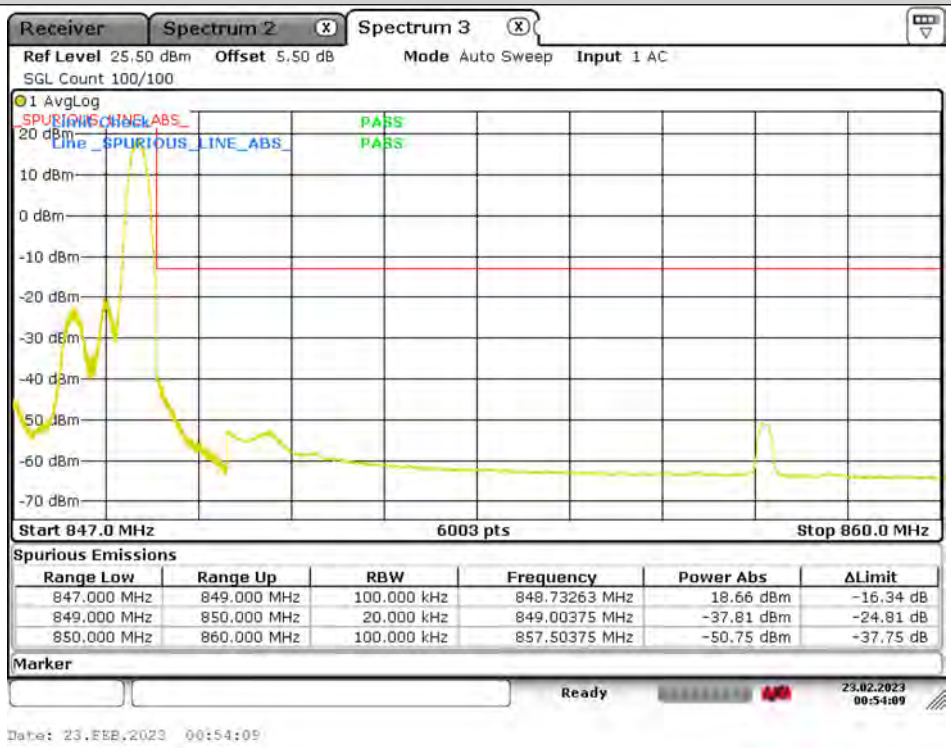
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.97401 MHz	-42.19 dBm	-29.19 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99775 MHz	-38.50 dBm	-25.50 dB
824.000 MHz	826.000 MHz	100.000 kHz	825.00900 MHz	10.56 dBm	-24.44 dB

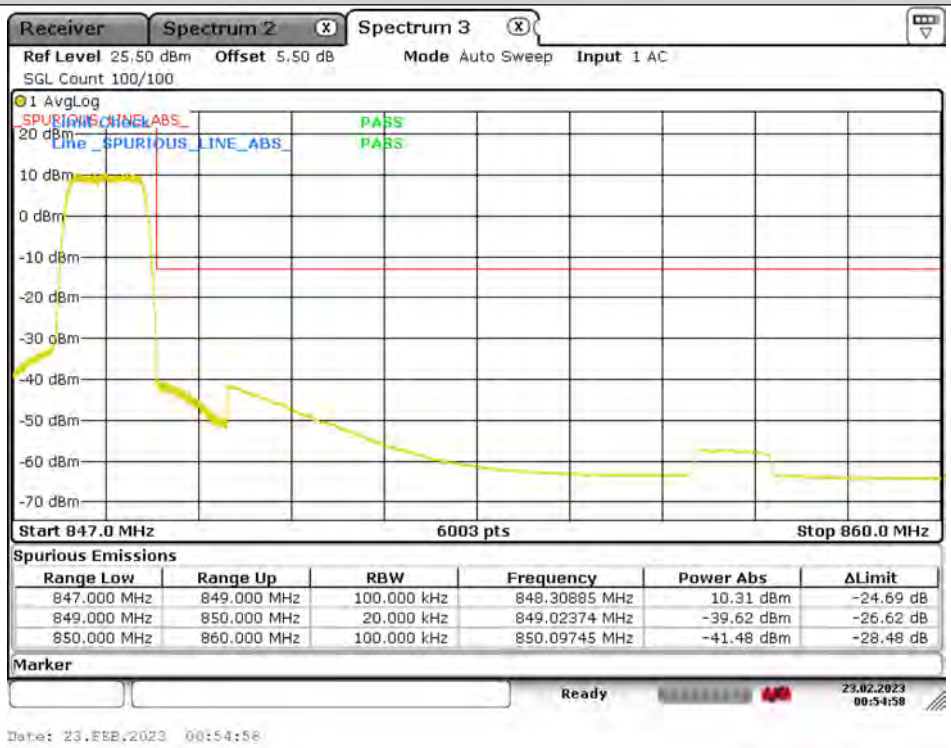
Ready 23.02.2023 00:50:45

Date: 23.FEB.2023 00:50:45

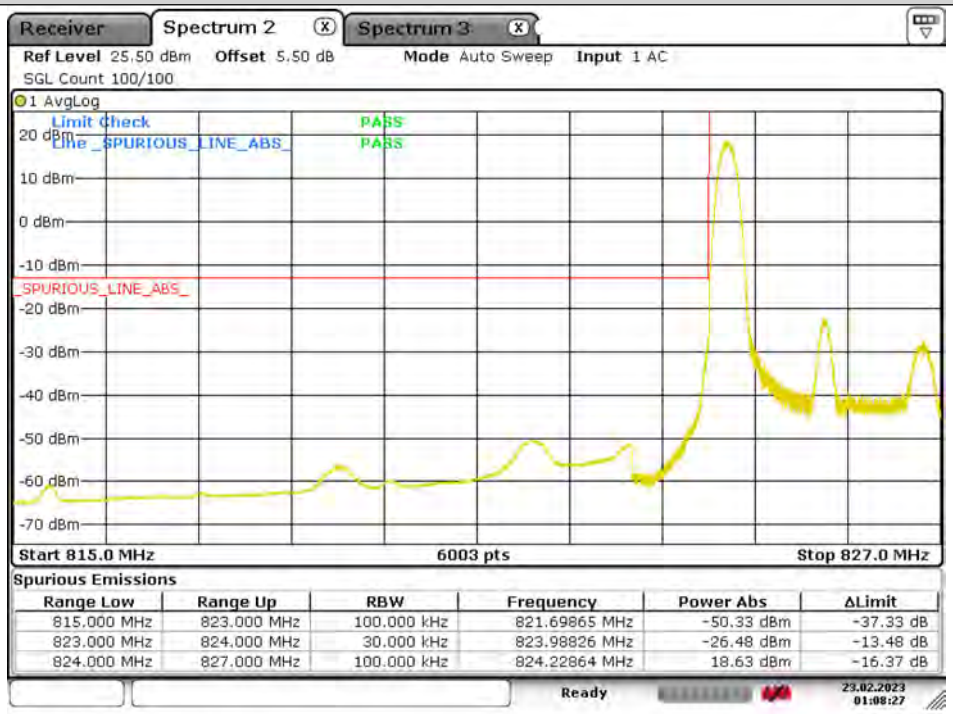
Band5-1.4MHz-64QAM-20643-1RB#5



Band5-1.4MHz-64QAM-20643-6RB#0



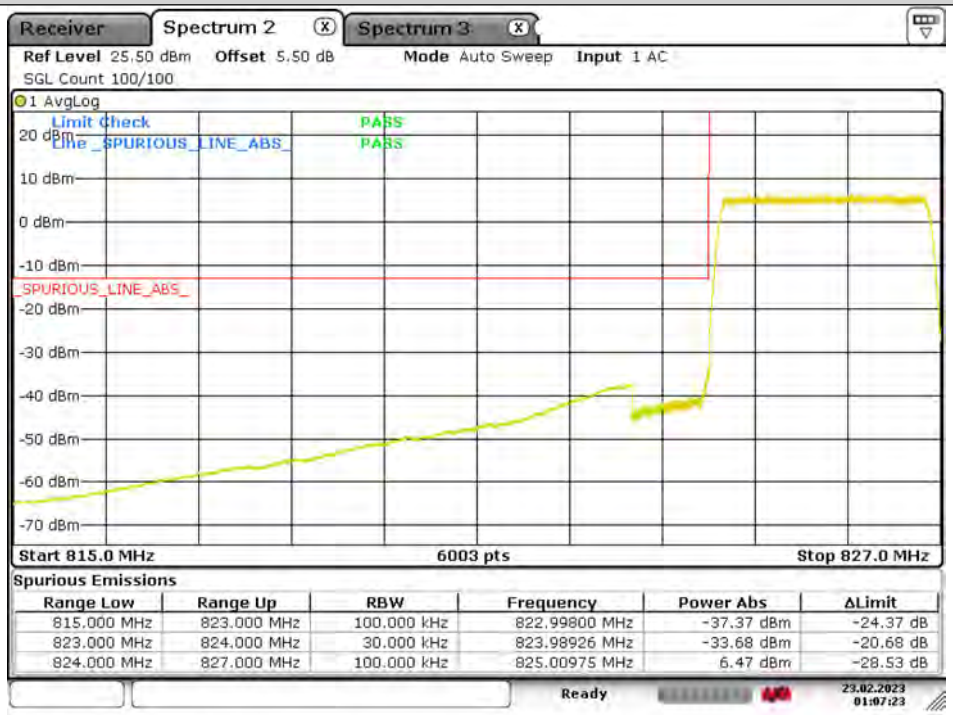
Band5-3MHz-64QAM-20415-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	821.69865 MHz	-50.33 dBm	-37.33 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.98826 MHz	-26.48 dBm	-13.48 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.22864 MHz	18.63 dBm	-16.37 dB

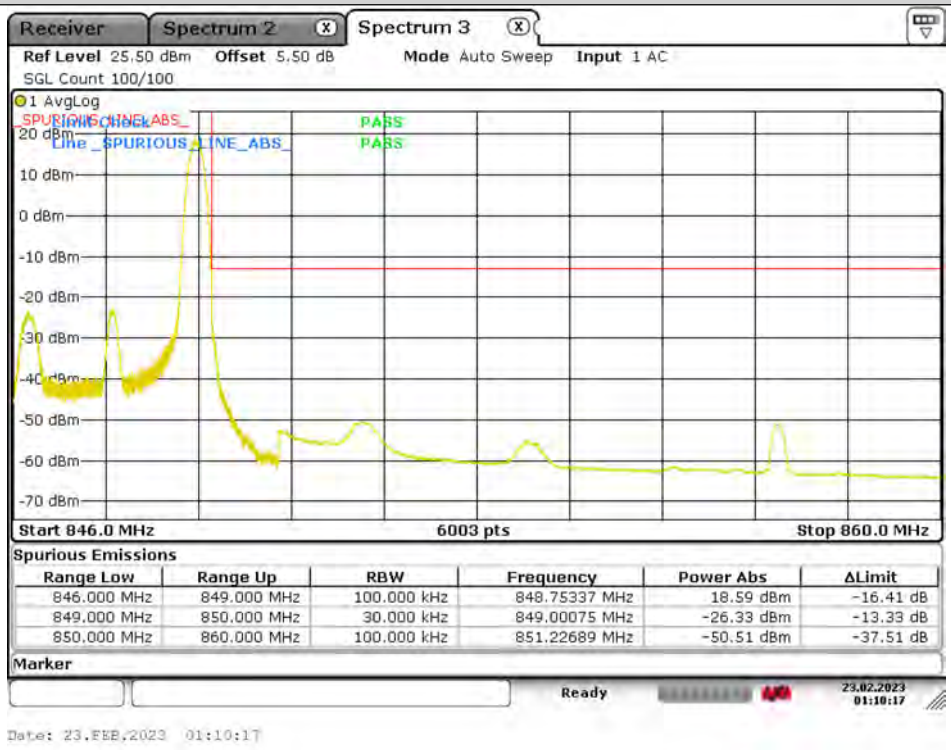
Band5-3MHz-64QAM-20415-15RB#0



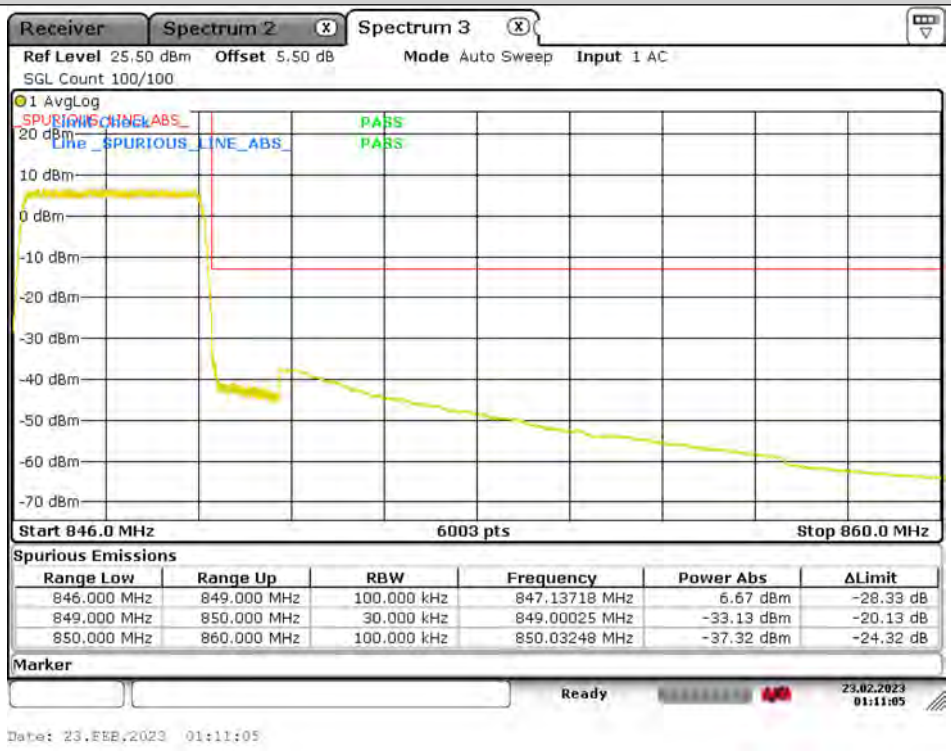
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99800 MHz	-37.37 dBm	-24.37 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.98926 MHz	-33.68 dBm	-20.68 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.00975 MHz	6.47 dBm	-28.53 dB

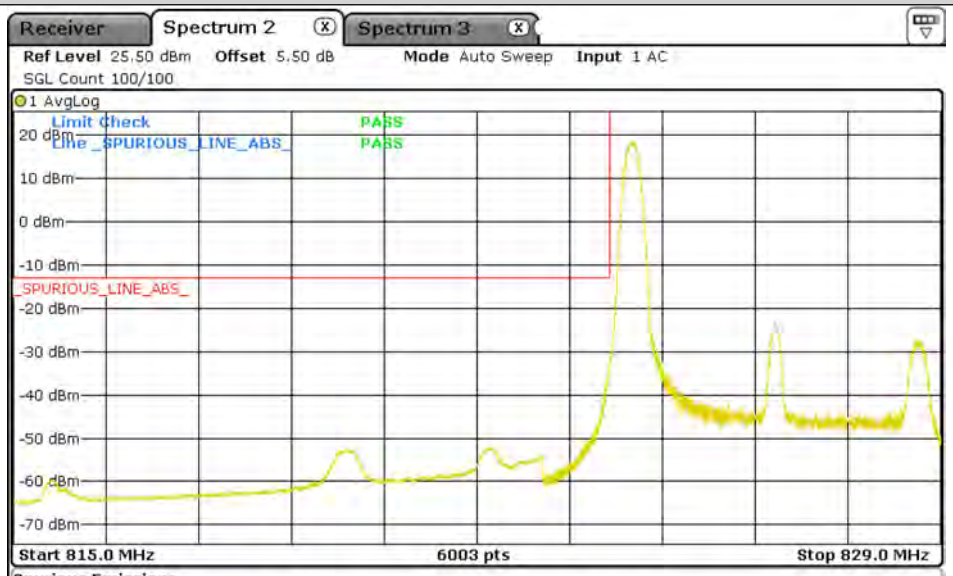
Band5-3MHz-64QAM-20635-1RB#14



Band5-3MHz-64QAM-20635-15RB#0



Band5-5MHz-64QAM-20425-1RB#0



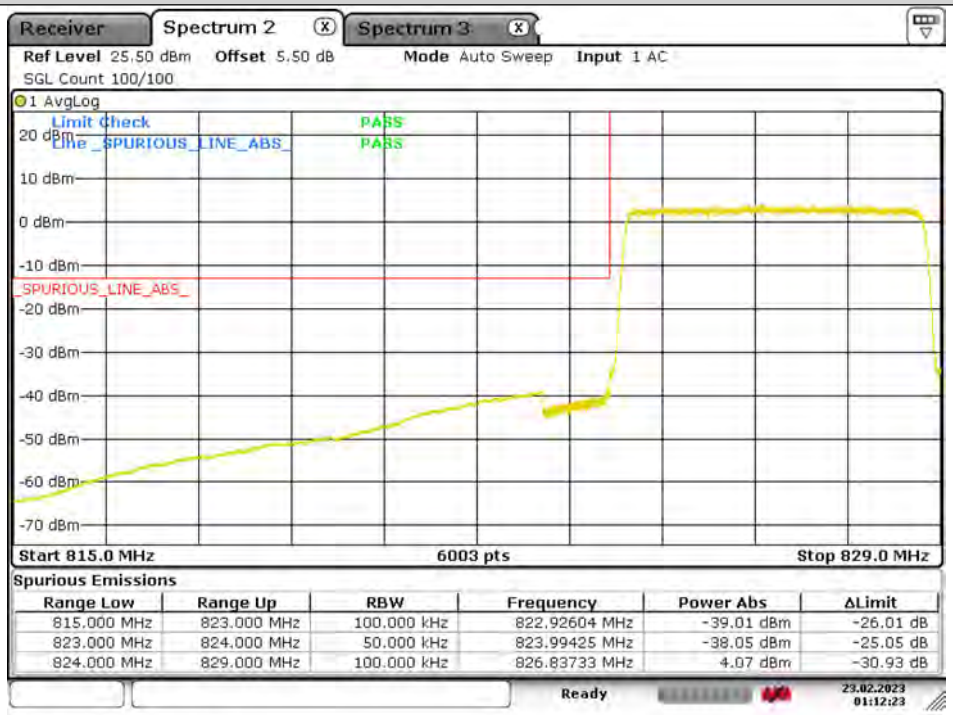
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.19840 MHz	-52.08 dBm	-39.08 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99425 MHz	-33.54 dBm	-20.54 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.33358 MHz	18.46 dBm	-16.54 dB

Ready 23.02.2023 01:13:04

Date: 23.FEB.2023 01:13:04

Band5-5MHz-64QAM-20425-25RB#0



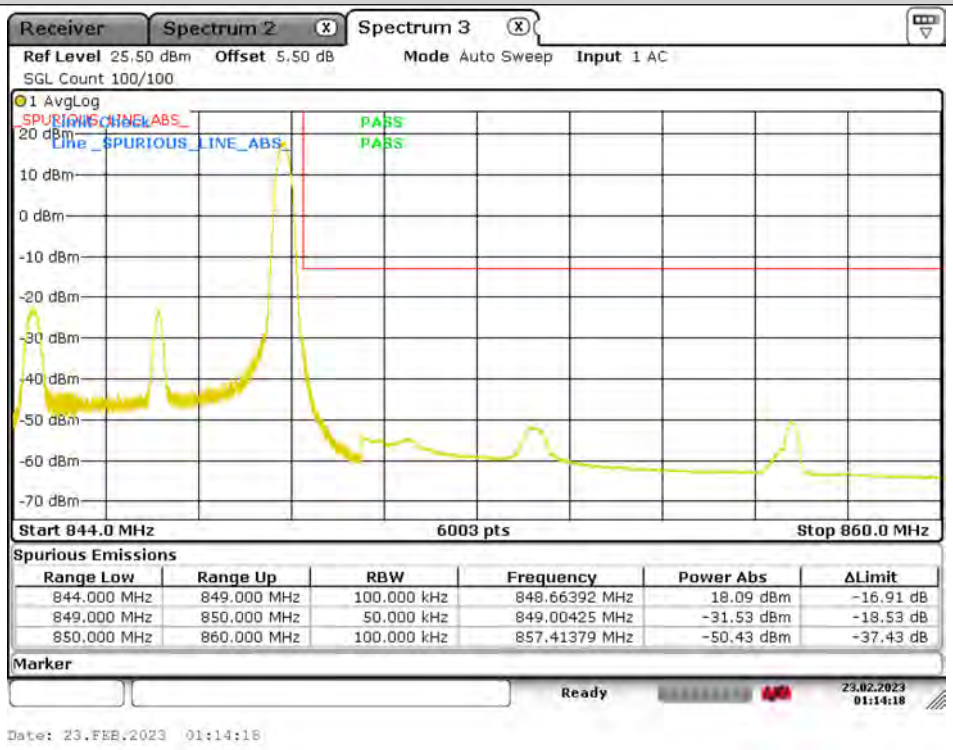
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.92604 MHz	-39.01 dBm	-26.01 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99425 MHz	-38.05 dBm	-25.05 dB
824.000 MHz	829.000 MHz	100.000 kHz	826.83733 MHz	4.07 dBm	-30.93 dB

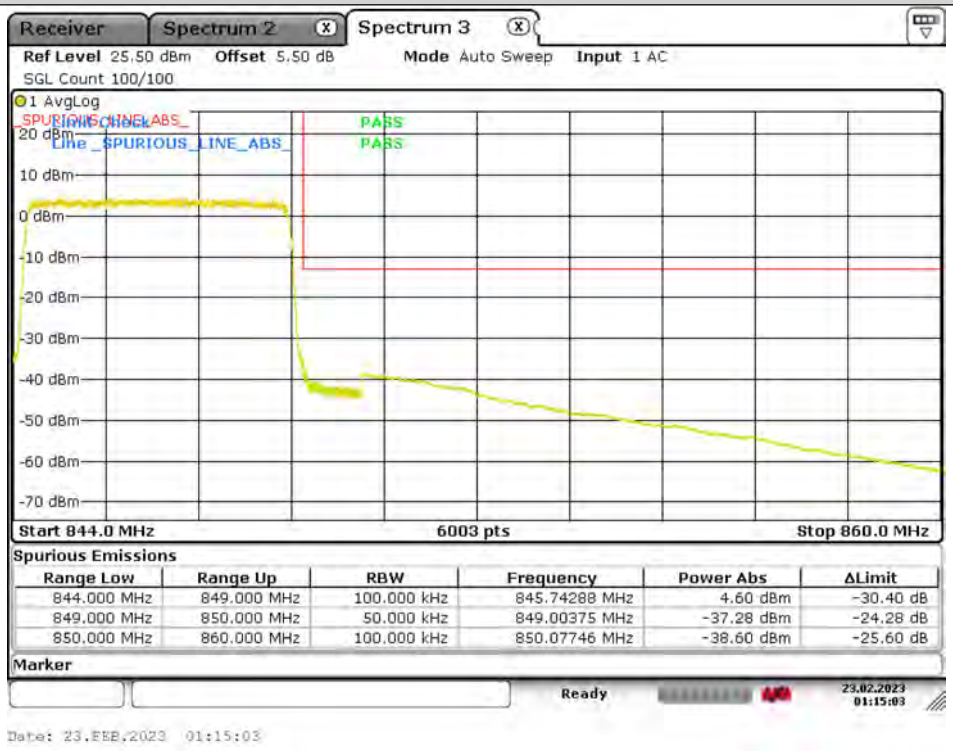
Ready 23.02.2023 01:12:23

Date: 23.FEB.2023 01:12:23

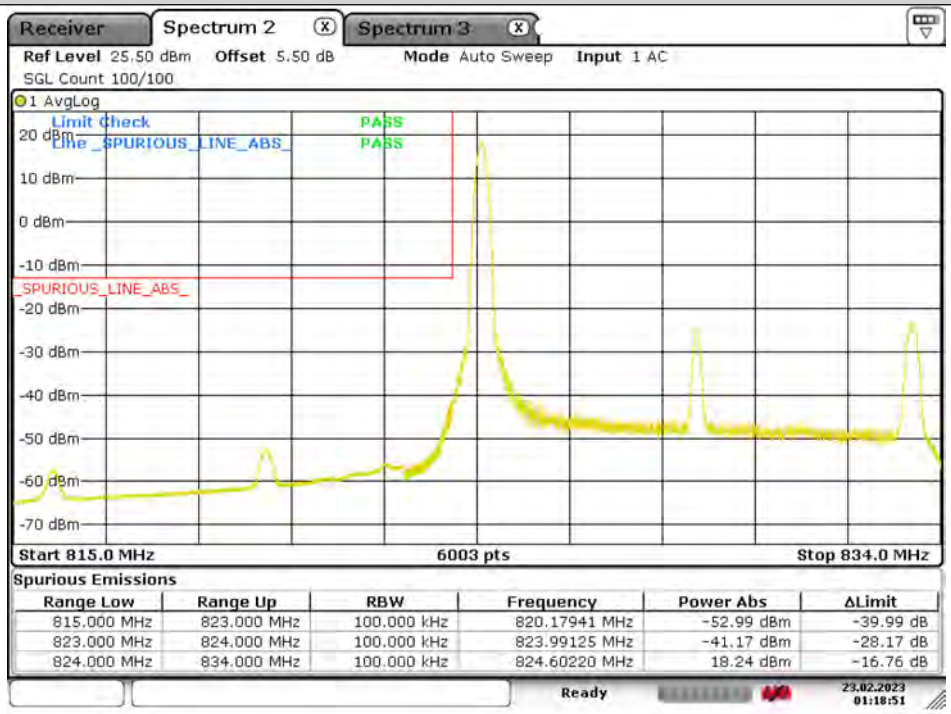
Band5-5MHz-64QAM-20625-1RB#24



Band5-5MHz-64QAM-20625-25RB#0



Band5-10MHz-64QAM-20450-1RB#0

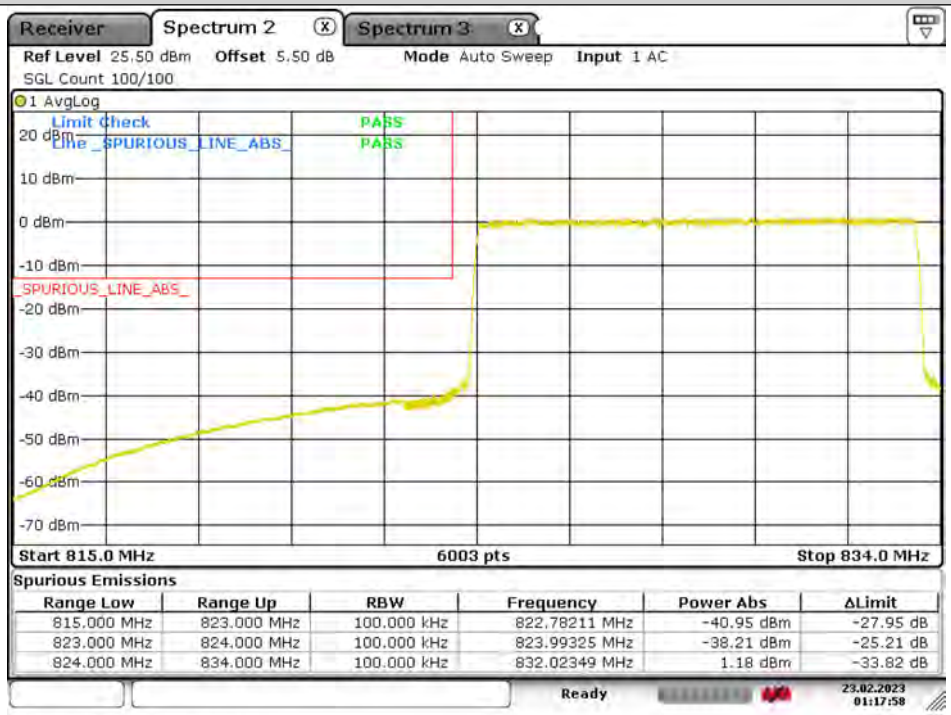


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	820.17941 MHz	-52.99 dBm	-39.99 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99125 MHz	-41.17 dBm	-28.17 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.60220 MHz	18.24 dBm	-16.76 dB

Date: 23.FEB.2023 01:18:51

Band5-10MHz-64QAM-20450-50RB#0

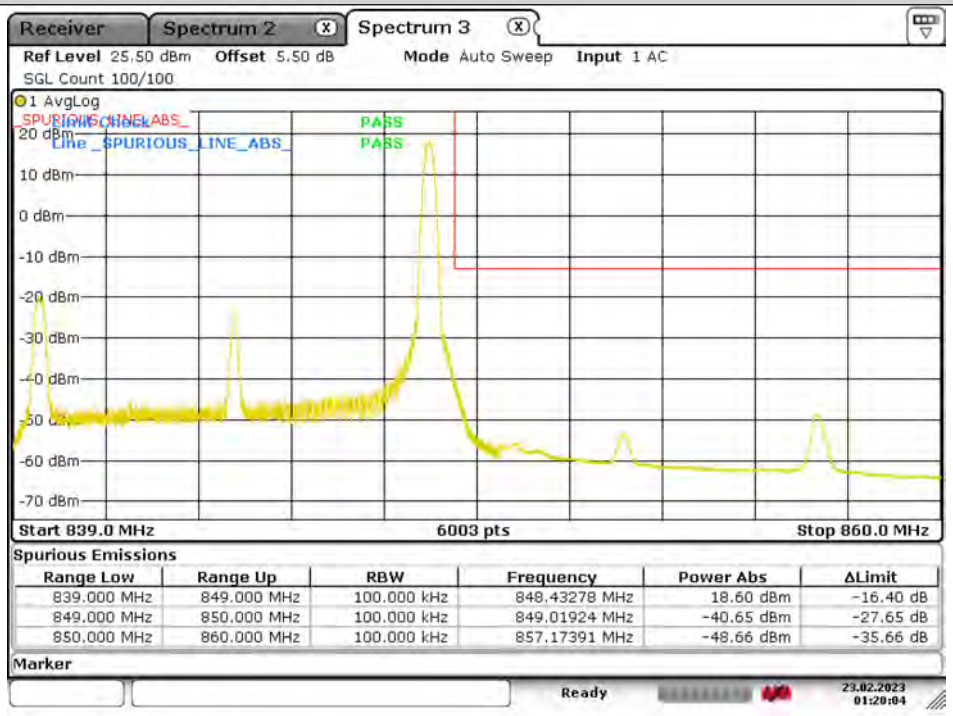


Spurious Emissions

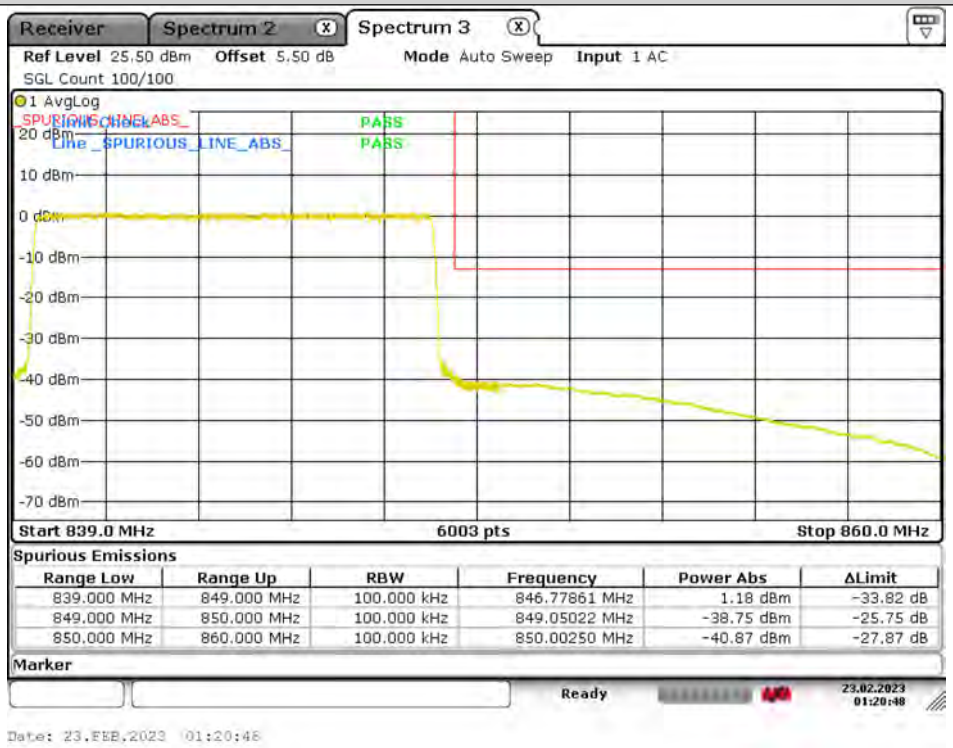
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.78211 MHz	-40.95 dBm	-27.95 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99325 MHz	-38.21 dBm	-25.21 dB
824.000 MHz	834.000 MHz	100.000 kHz	832.02349 MHz	1.18 dBm	-33.82 dB

Date: 23.FEB.2023 01:17:58

Band5-10MHz-64QAM-20600-1RB#49



Band5-10MHz-64QAM-20600-50RB#0



CONDUCTED SPURIOUS EMISSION

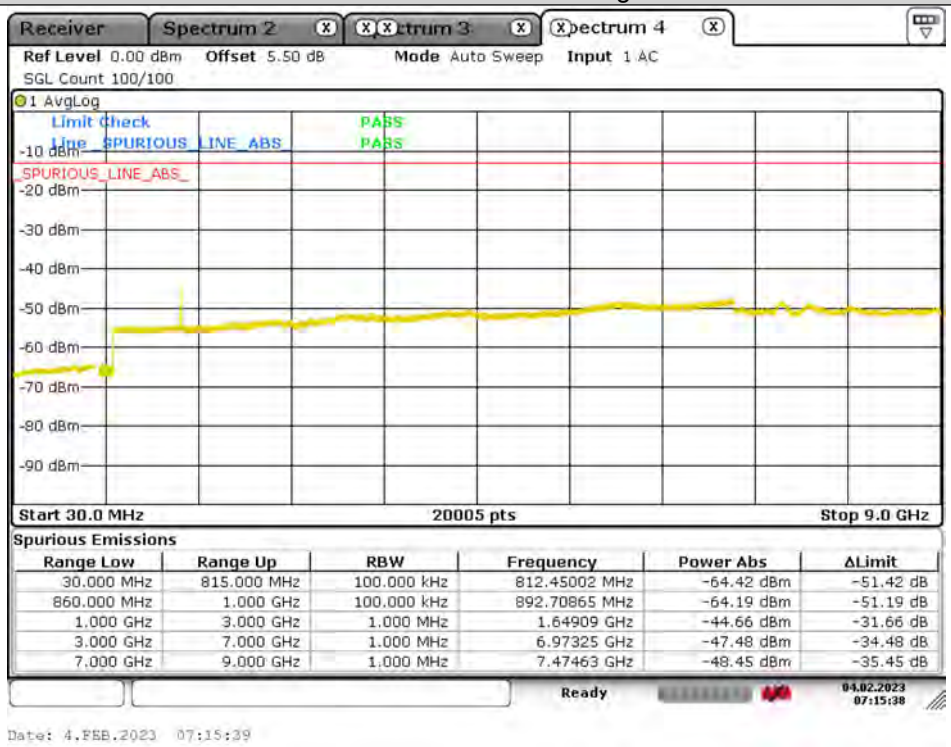
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range3:30~1000MHz	-64.42	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range4:1000~9000MHz	-44.66	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-64.16	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range4:1000~9000MHz	-47.01	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range3:30~1000MHz	-64.22	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range4:1000~9000MHz	-46.16	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range3:30~1000MHz	-64.25	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range4:1000~9000MHz	-45.27	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-64.21	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range4:1000~9000MHz	-47.69	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range3:30~1000MHz	-64.22	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range4:1000~9000MHz	-46.42	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range3:30~1000MHz	-64.14	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range4:1000~9000MHz	-45.58	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-64.29	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range4:1000~9000MHz	-47.52	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range3:30~1000MHz	-64.03	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range4:1000~9000MHz	-44.43	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range3:30~1000MHz	-63.97	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range4:1000~9000MHz	-45.66	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-64.38	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range4:1000~9000MHz	-47.51	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range3:30~1000MHz	-64.04	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range4:1000~9000MHz	-46.04	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range3:30~1000MHz	-64.28	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range4:1000~9000MHz	-45.05	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-64.28	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range4:1000~9000MHz	-46.6	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range3:30~1000MHz	-64.16	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range4:1000~9000MHz	-44.57	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range3:30~1000MHz	-64.09	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range4:1000~9000MHz	-46.08	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-64.07	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range4:1000~9000MHz	-47.11	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range3:30~1000MHz	-64.04	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range4:1000~9000MHz	-46.18	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range3:30~1000MHz	-64.03	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range4:1000~9000MHz	-45.24	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range3:30~1000MHz	-64.39	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range4:1000~9000MHz	-47.13	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range3:30~1000MHz	-64.38	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range4:1000~9000MHz	-46.44	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range3:30~1000MHz	-64.13	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range4:1000~9000MHz	-47.08	PASS

Band5	10MHz	16QAM	20525	1RB#0	Range3:30~1000MHz	-64.31	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range4:1000~9000MHz	-47.62	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range3:30~1000MHz	-64.34	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range4:1000~9000MHz	-47.62	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	Range1:30~1000MHz	-63.75	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	Range2:1000~9000MHz	-47.26	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-64.03	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	Range2:1000~9000MHz	-47.17	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	Range1:30~1000MHz	-63.75	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	Range2:1000~9000MHz	-47.23	PASS
Band5	3MHz	64QAM	20415	1RB#0	Range1:30~1000MHz	-63.81	PASS
Band5	3MHz	64QAM	20415	1RB#0	Range2:1000~9000MHz	-47.23	PASS
Band5	3MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-64.01	PASS
Band5	3MHz	64QAM	20525	1RB#0	Range2:1000~9000MHz	-47.19	PASS
Band5	3MHz	64QAM	20635	1RB#0	Range1:30~1000MHz	-63.65	PASS
Band5	3MHz	64QAM	20635	1RB#0	Range2:1000~9000MHz	-47.23	PASS
Band5	5MHz	64QAM	20425	1RB#0	Range1:30~1000MHz	-64.08	PASS
Band5	5MHz	64QAM	20425	1RB#0	Range2:1000~9000MHz	-47.41	PASS
Band5	5MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-64.03	PASS
Band5	5MHz	64QAM	20525	1RB#0	Range2:1000~9000MHz	-47.04	PASS
Band5	5MHz	64QAM	20625	1RB#0	Range1:30~1000MHz	-64.02	PASS
Band5	5MHz	64QAM	20625	1RB#0	Range2:1000~9000MHz	-47.04	PASS
Band5	10MHz	64QAM	20450	1RB#0	Range1:30~1000MHz	-63.86	PASS
Band5	10MHz	64QAM	20450	1RB#0	Range2:1000~9000MHz	-47.08	PASS
Band5	10MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-63.89	PASS
Band5	10MHz	64QAM	20525	1RB#0	Range2:1000~9000MHz	-46.97	PASS
Band5	10MHz	64QAM	20600	1RB#0	Range1:30~1000MHz	-63.70	PASS
Band5	10MHz	64QAM	20600	1RB#0	Range2:1000~9000MHz	-46.91	PASS

Test Graphs

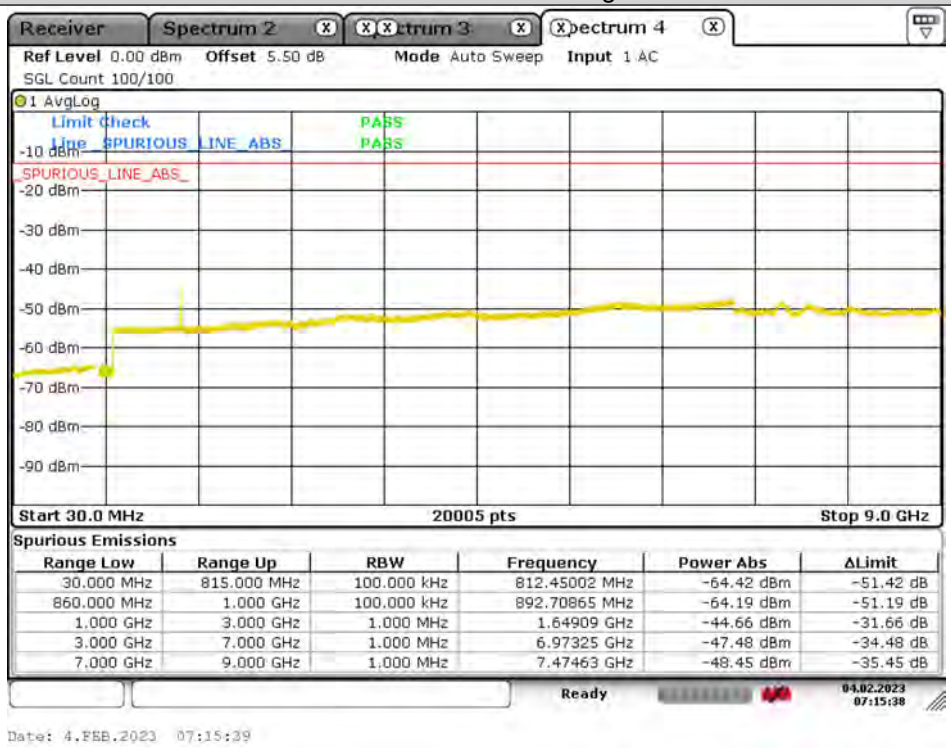
Band5-1.4MHz-QPSK-20407-1RB#0-Range3:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.45002 MHz	-64.42 dBm	-51.42 dB
860.000 MHz	1.000 GHz	100.000 kHz	892.70865 MHz	-64.19 dBm	-51.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64909 GHz	-44.66 dBm	-31.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97325 GHz	-47.48 dBm	-34.48 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.47463 GHz	-48.45 dBm	-35.45 dB

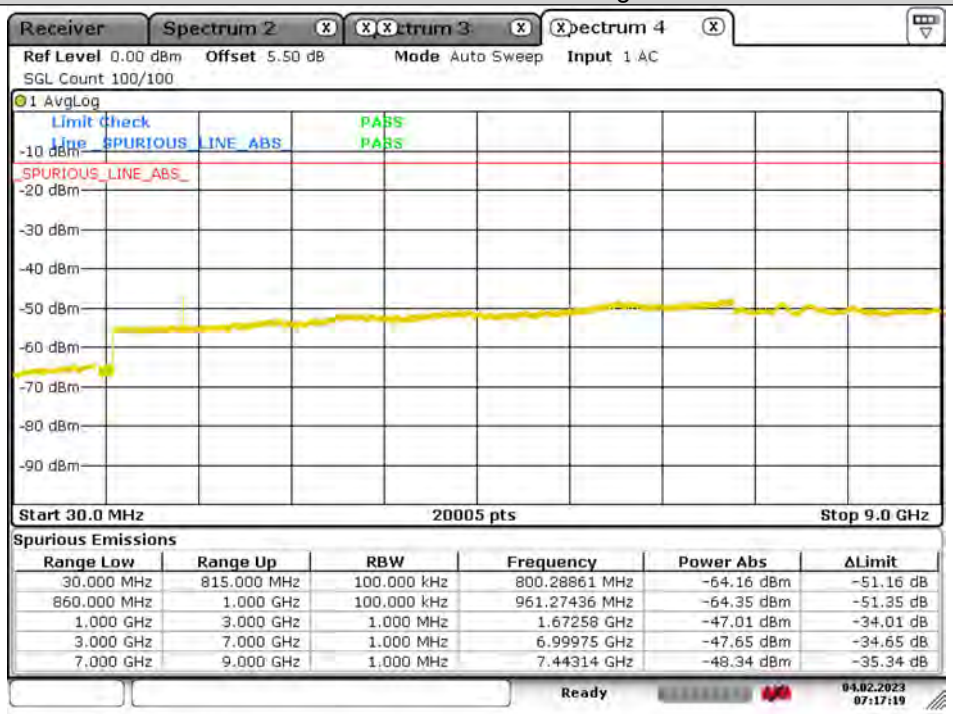
Band5-1.4MHz-QPSK-20407-1RB#0-Range4:1000~9000MHz



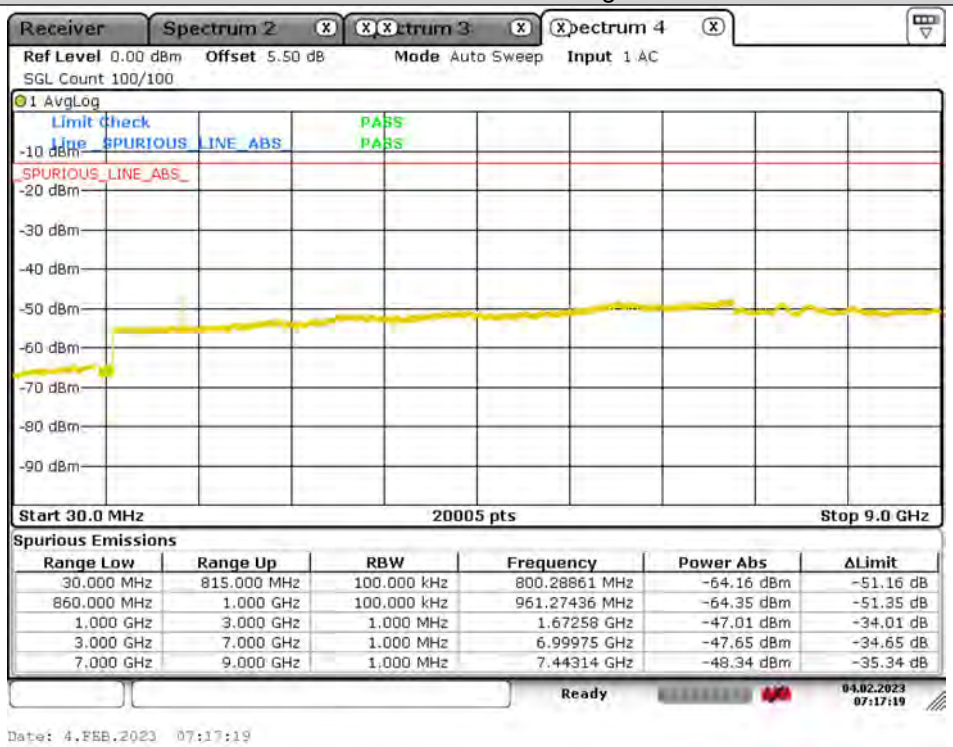
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.45002 MHz	-64.42 dBm	-51.42 dB
860.000 MHz	1.000 GHz	100.000 kHz	892.70865 MHz	-64.19 dBm	-51.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64909 GHz	-44.66 dBm	-31.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97325 GHz	-47.48 dBm	-34.48 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.47463 GHz	-48.45 dBm	-35.45 dB

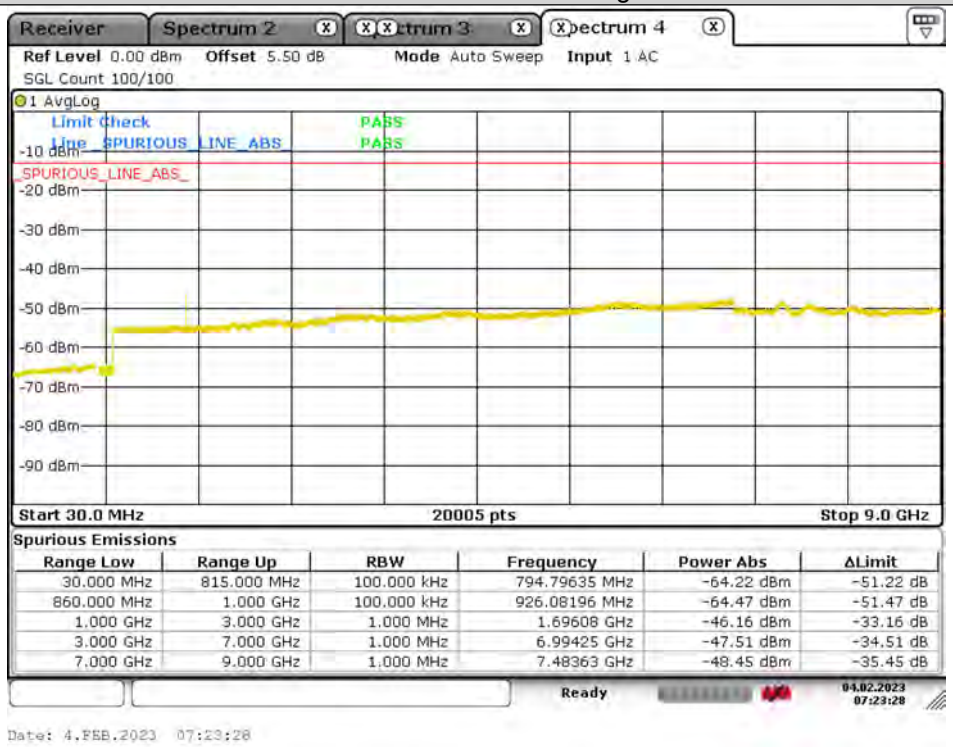
Band5-1.4MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



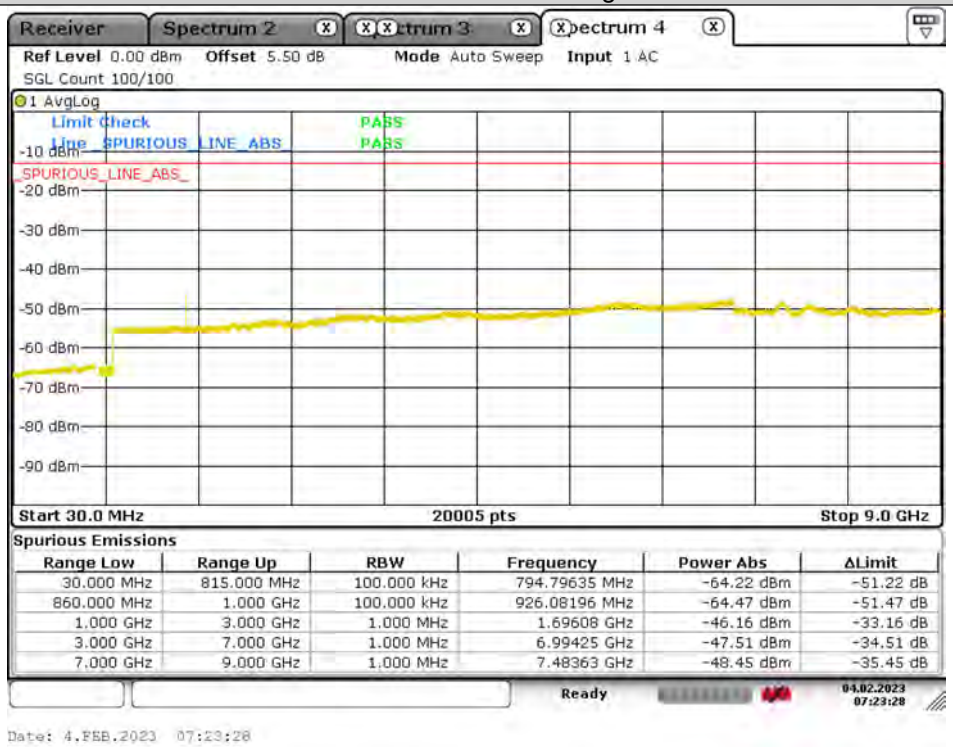
Band5-1.4MHz-QPSK-20525-1RB#0-Range4:1000~9000MHz



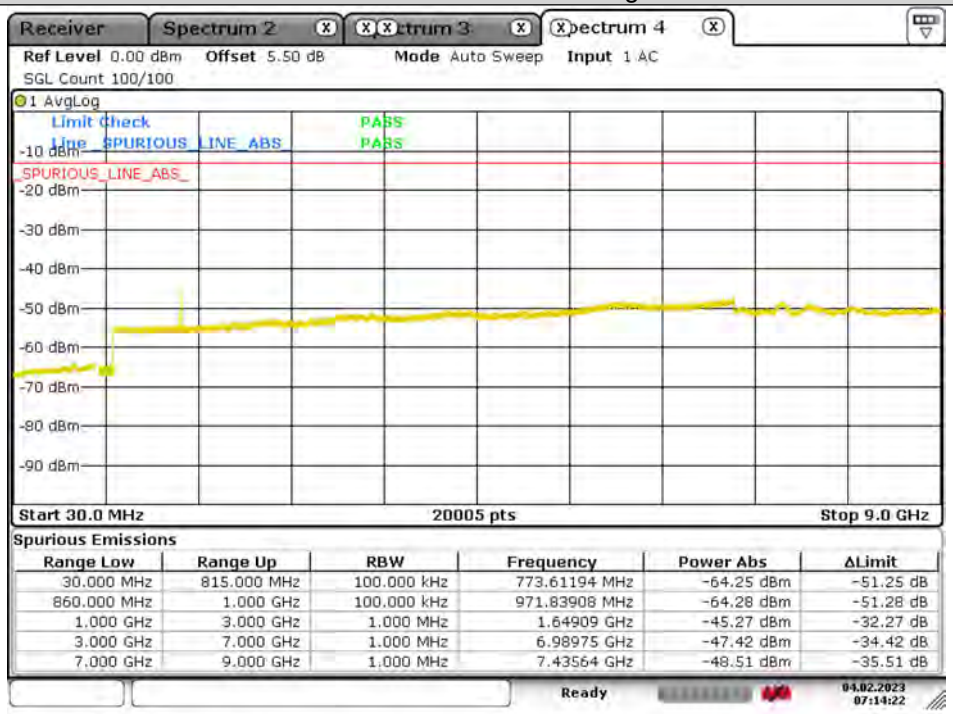
Band5-1.4MHz-QPSK-20643-1RB#0-Range3:30~1000MHz



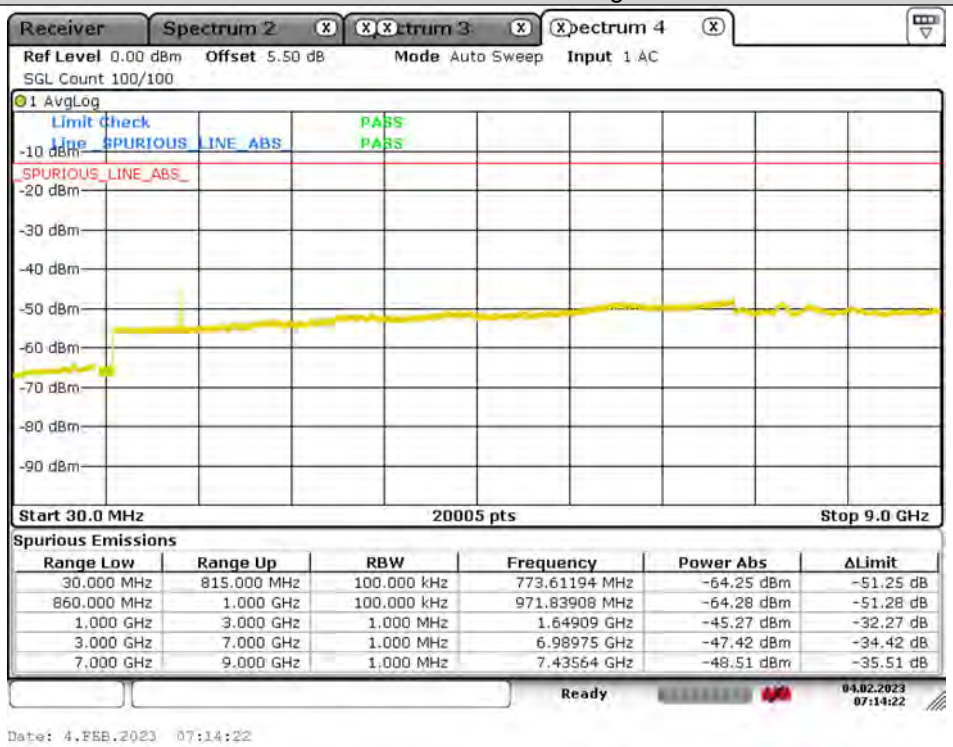
Band5-1.4MHz-QPSK-20643-1RB#0-Range4:1000~9000MHz



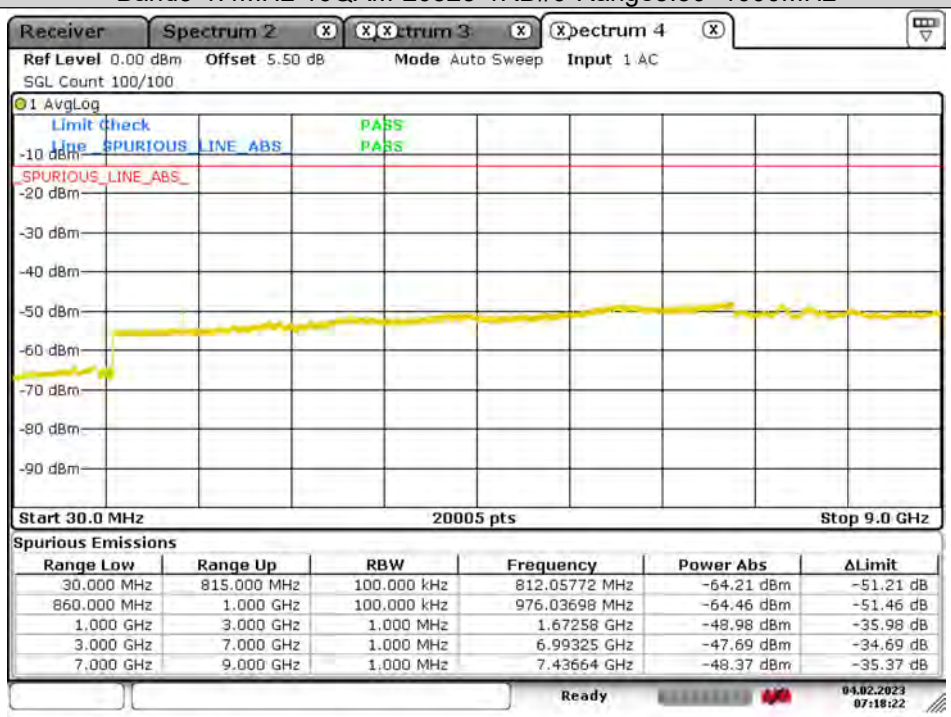
Band5-1.4MHz-16QAM-20407-1RB#0-Range3:30~1000MHz



Band5-1.4MHz-16QAM-20407-1RB#0-Range4:1000~9000MHz



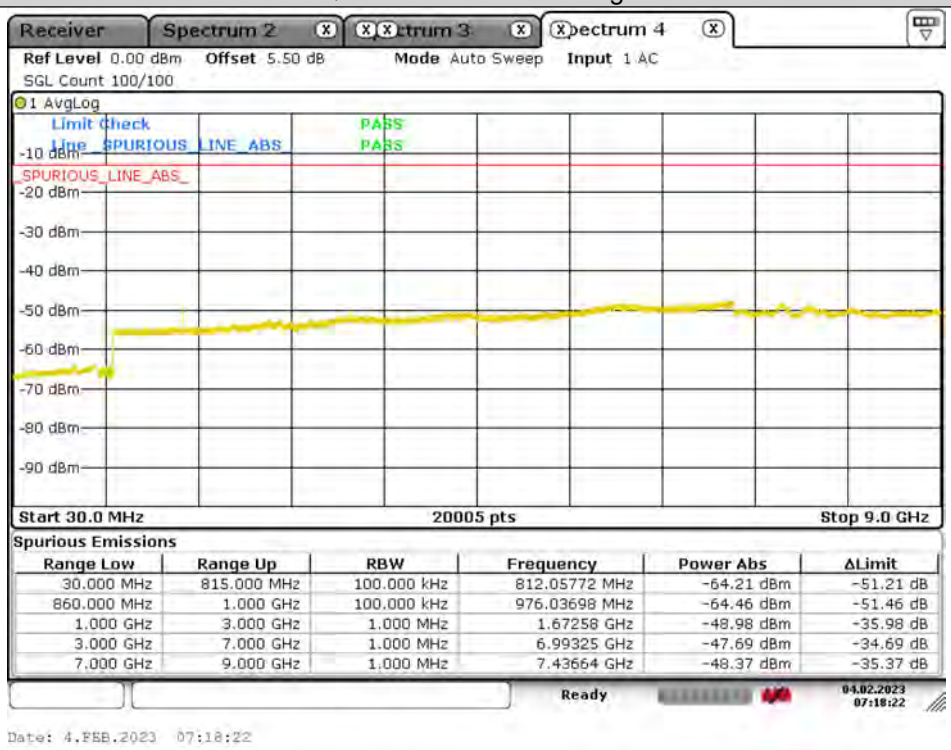
Band5-1.4MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.05772 MHz	-64.21 dBm	-51.21 dB
860.000 MHz	1.000 GHz	100.000 kHz	976.03698 MHz	-64.46 dBm	-51.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67258 GHz	-48.98 dBm	-35.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99325 GHz	-47.69 dBm	-34.69 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.43664 GHz	-48.37 dBm	-35.37 dB

Band5-1.4MHz-16QAM-20525-1RB#0-Range4:1000~9000MHz



Spurious Emissions

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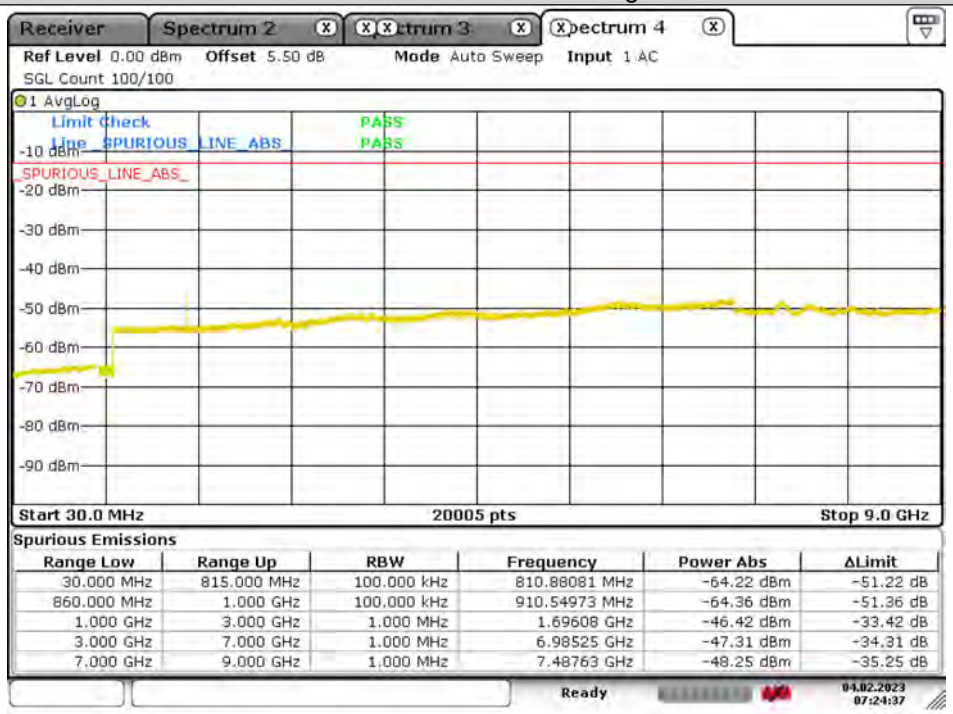
7.000 GHz	9.000 GHz	1.000 MHz	7.43664 GHz	-48.37 dBm	-35.37 dB

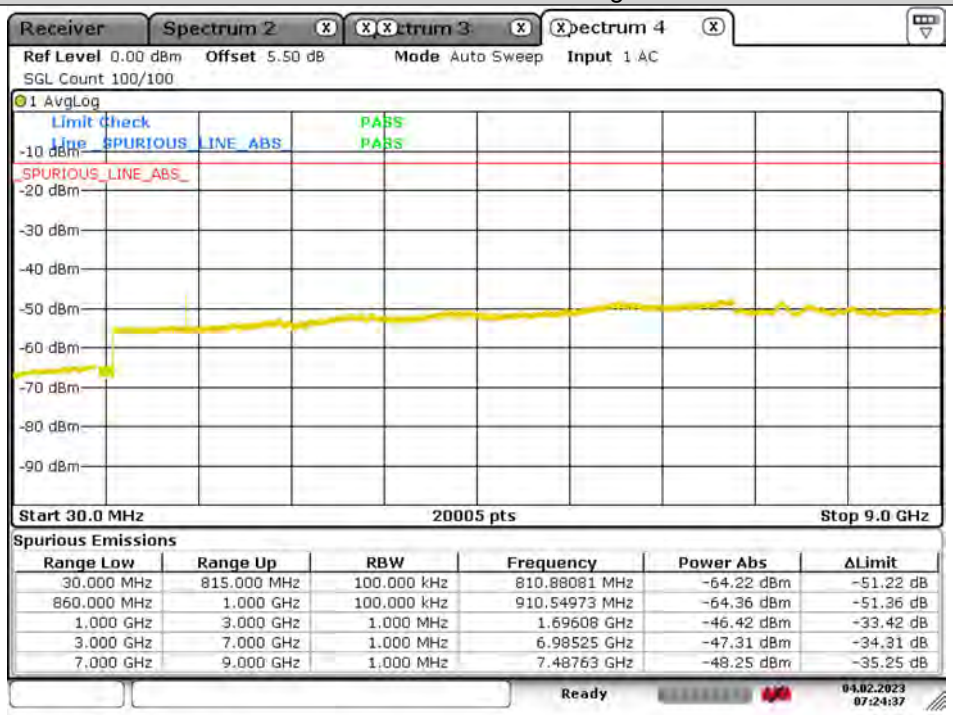
Band5-1.4MHz-16QAM-20643-1RB#0-Range3:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	810.88081 MHz	-64.22 dBm	-51.22 dB
860.000 MHz	1.000 GHz	100.000 kHz	910.54973 MHz	-64.36 dBm	-51.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69608 GHz	-46.42 dBm	-33.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98525 GHz	-47.31 dBm	-34.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.48763 GHz	-48.25 dBm	-35.25 dB

Band5-1.4MHz-16QAM-20643-1RB#0-Range4:1000~9000MHz



Spurious Emissions

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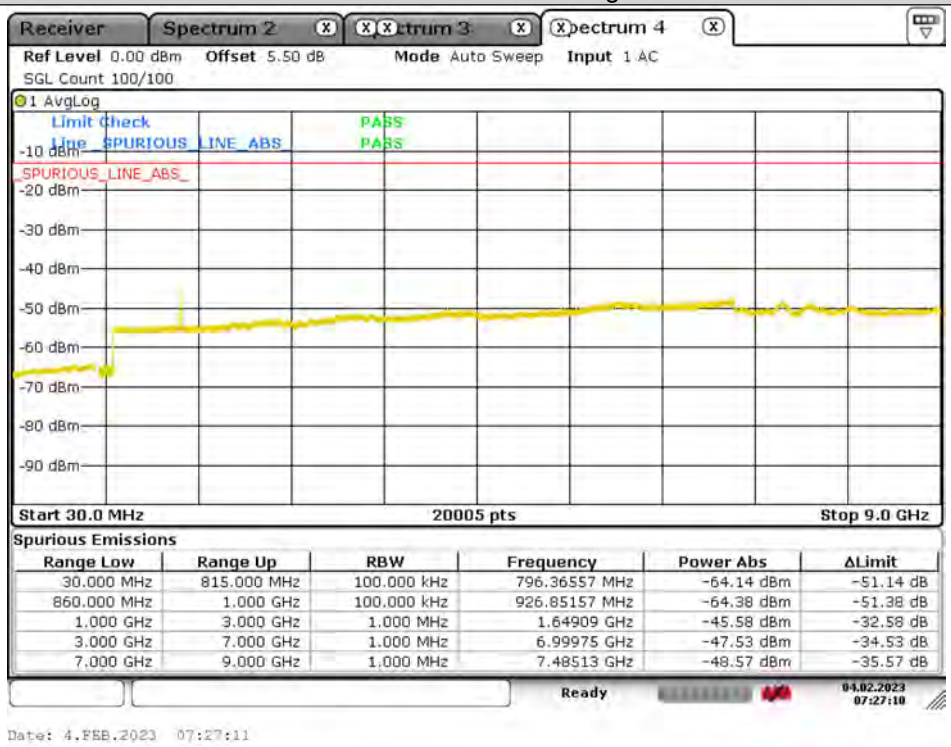
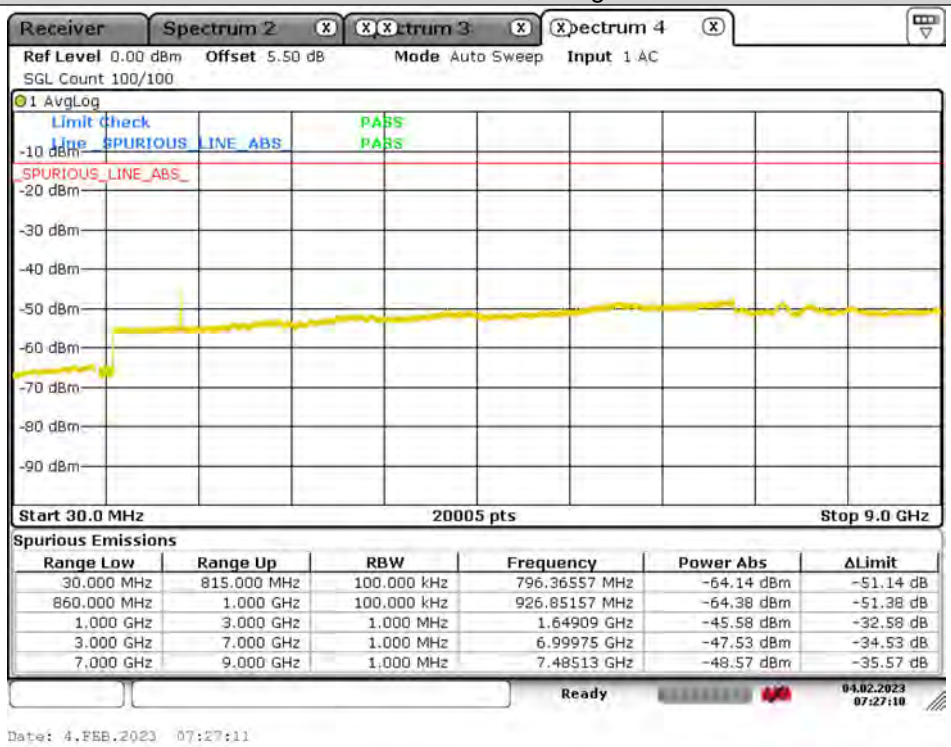
3.000 GHz	7.000 GHz	1.000 MHz	6.98525 GHz	-47.31 dBm	-34.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.48763 GHz	-48.25 dBm	-35.25 dB

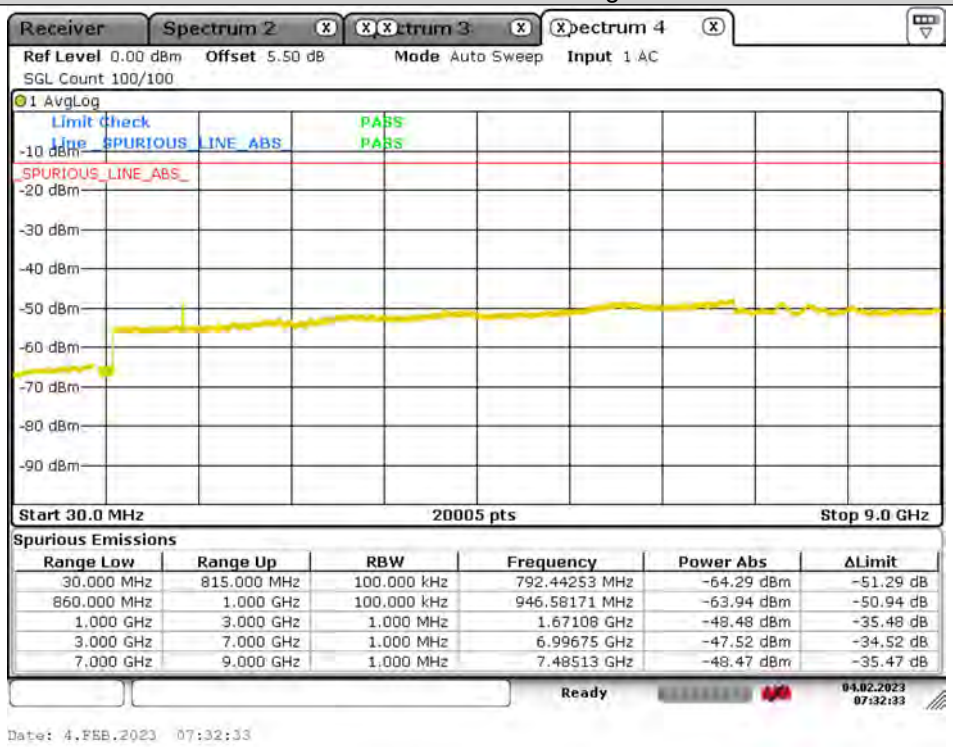
Band5-3MHz-QPSK-20415-1RB#0-Range3:30~1000MHz



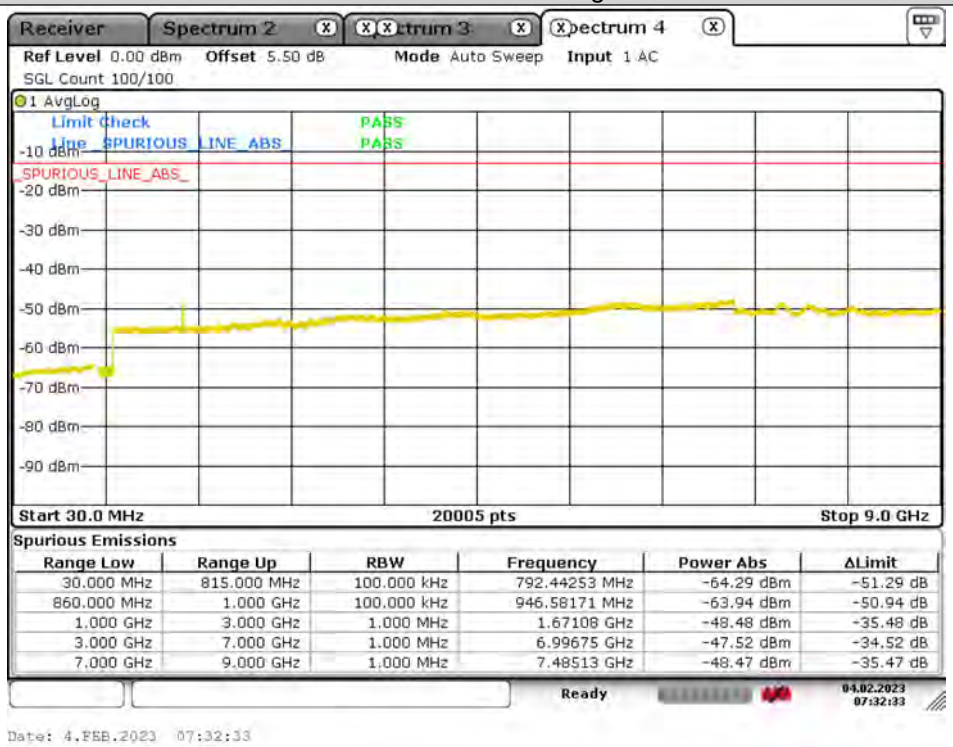
Band5-3MHz-QPSK-20415-1RB#0-Range4:1000~9000MHz



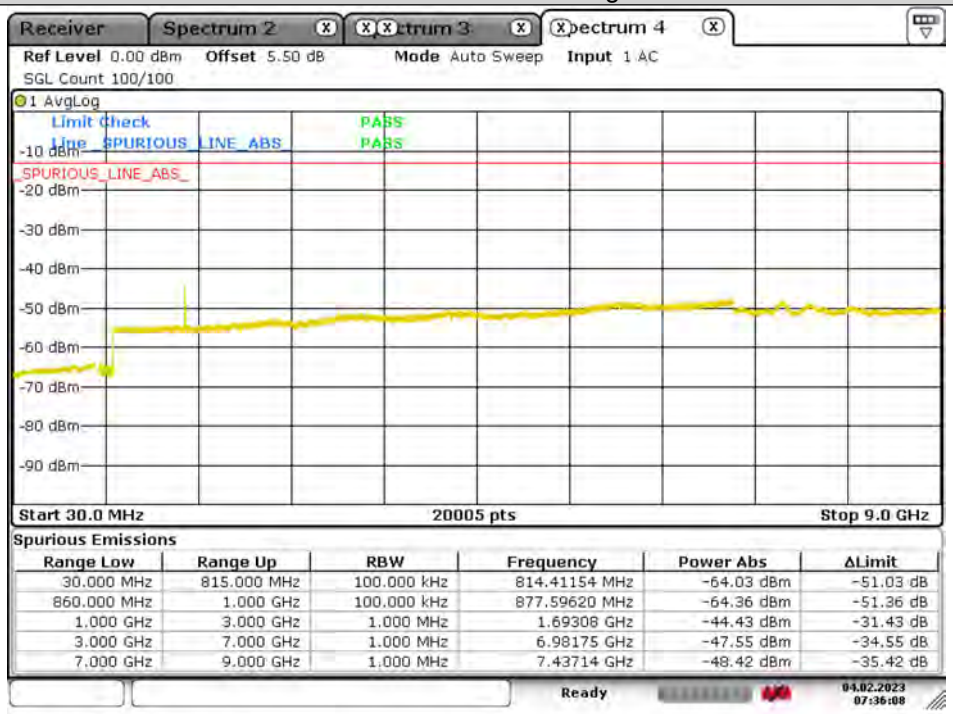
Band5-3MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



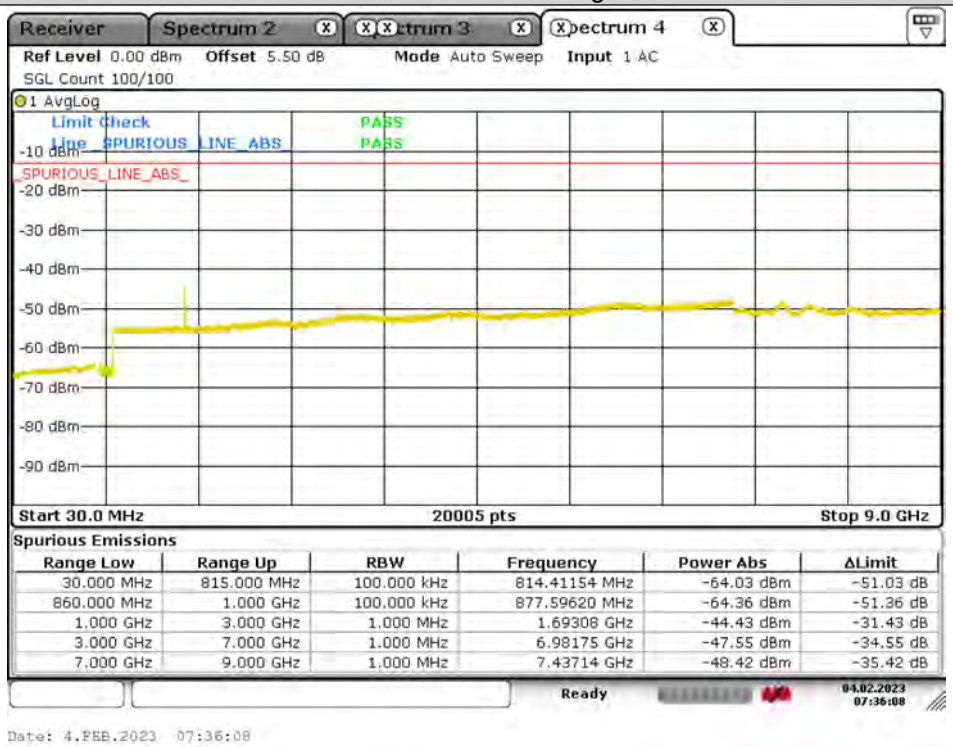
Band5-3MHz-QPSK-20525-1RB#0-Range4:1000~9000MHz



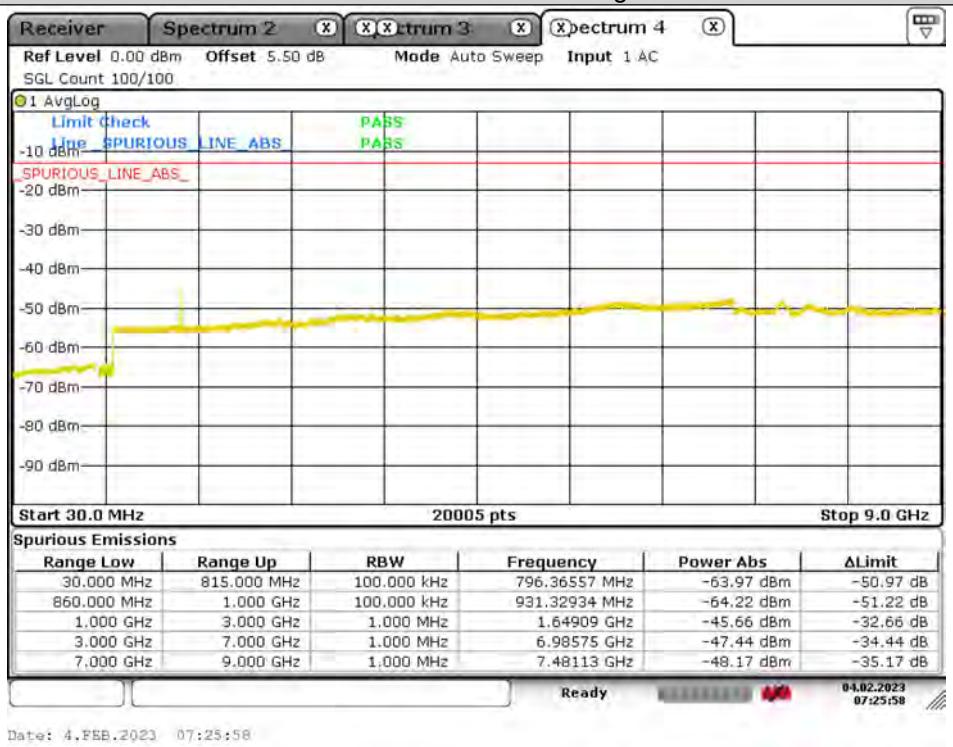
Band5-3MHz-QPSK-20635-1RB#0-Range3:30~1000MHz



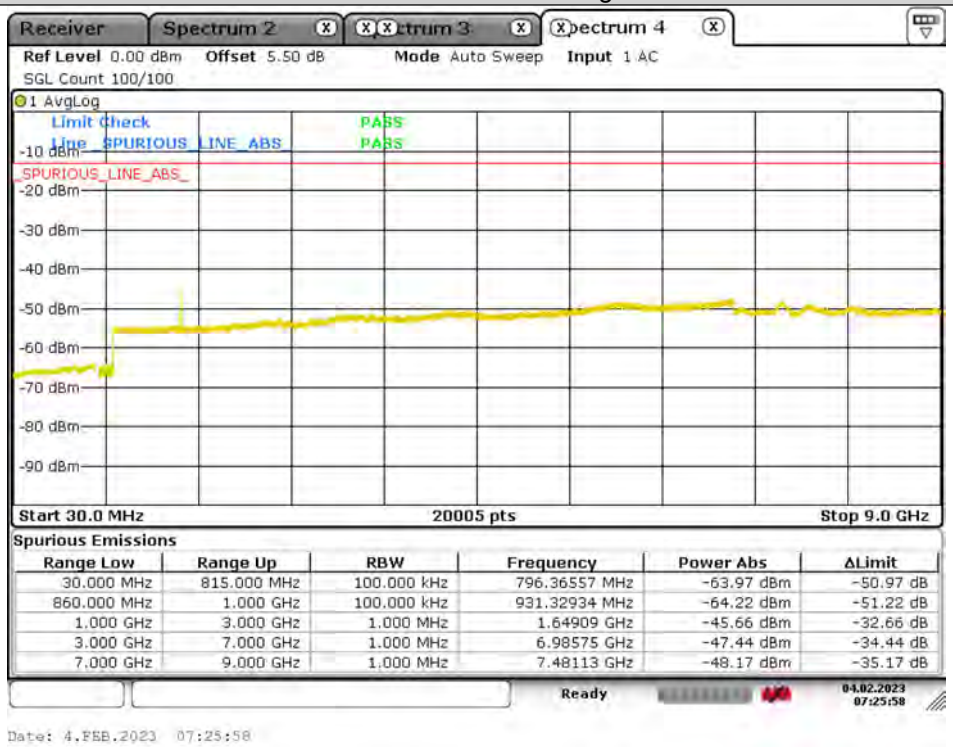
Band5-3MHz-QPSK-20635-1RB#0-Range4:1000~9000MHz



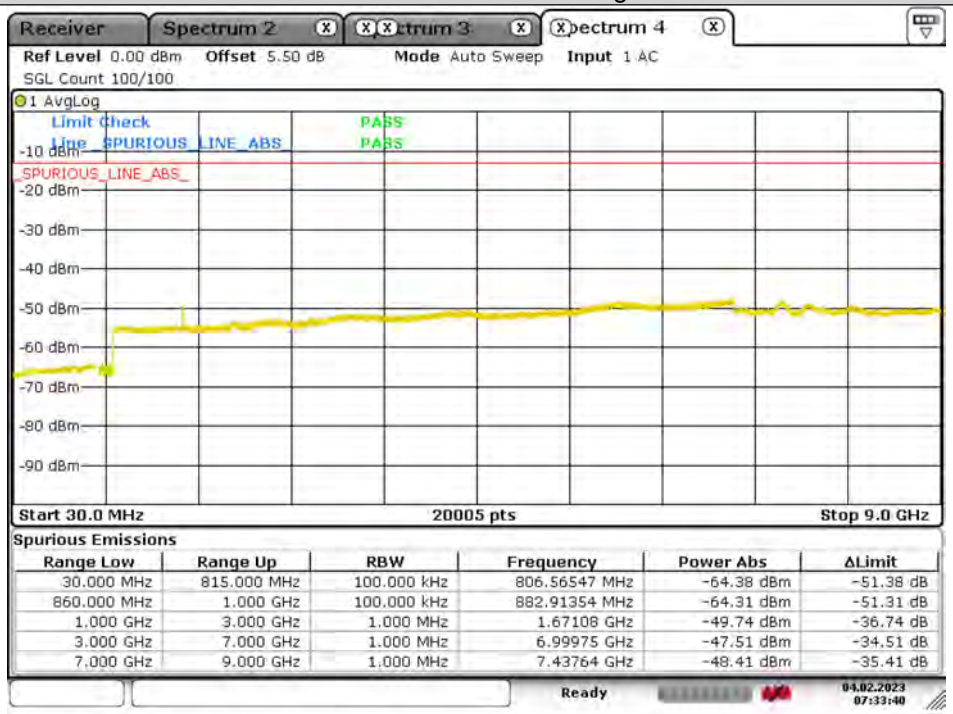
Band5-3MHz-16QAM-20415-1RB#0-Range3:30~1000MHz



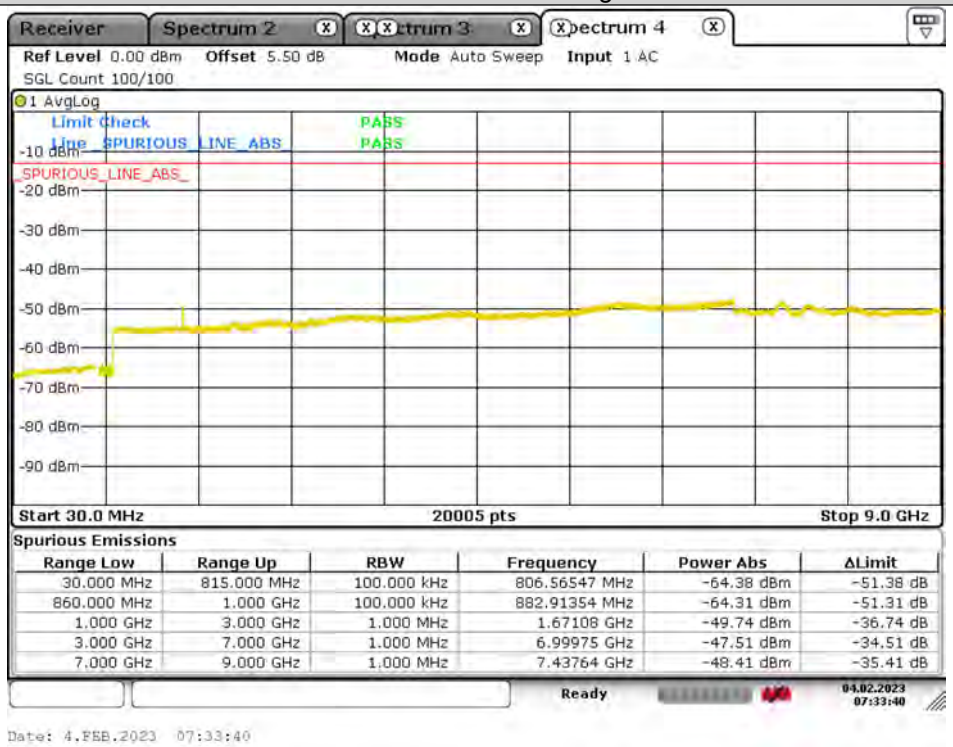
Band5-3MHz-16QAM-20415-1RB#0-Range4:1000~9000MHz



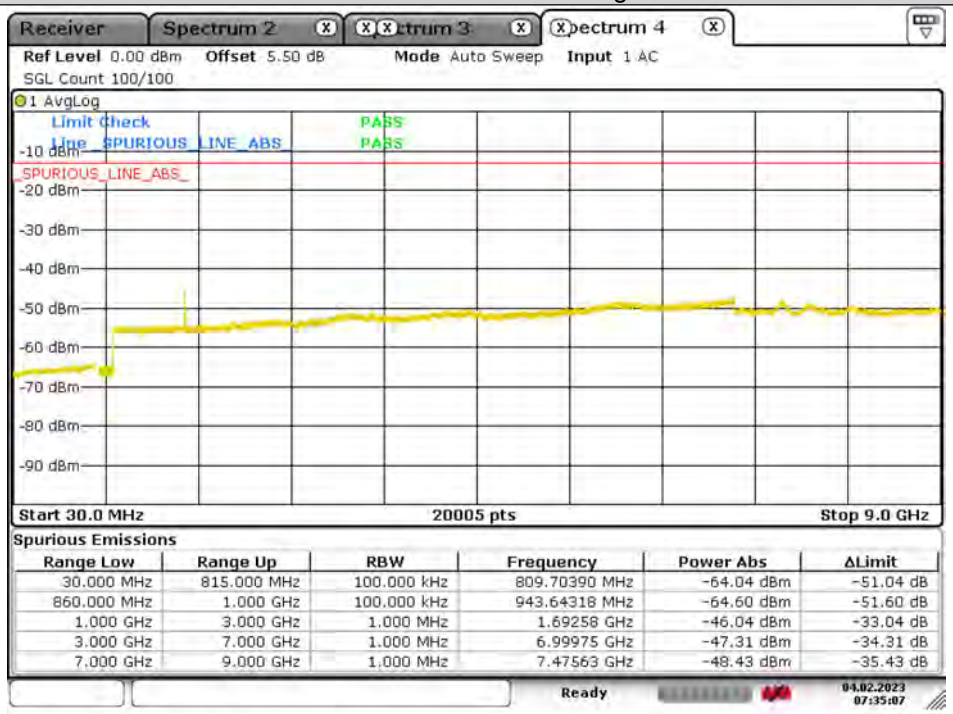
Band5-3MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



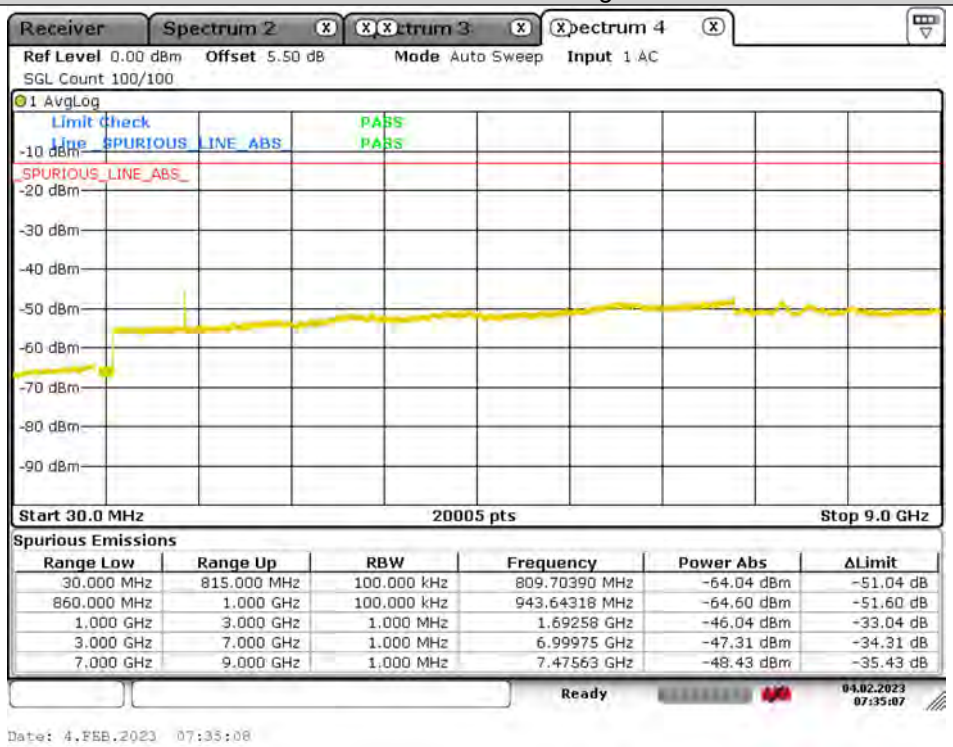
Band5-3MHz-16QAM-20525-1RB#0-Range4:1000~9000MHz



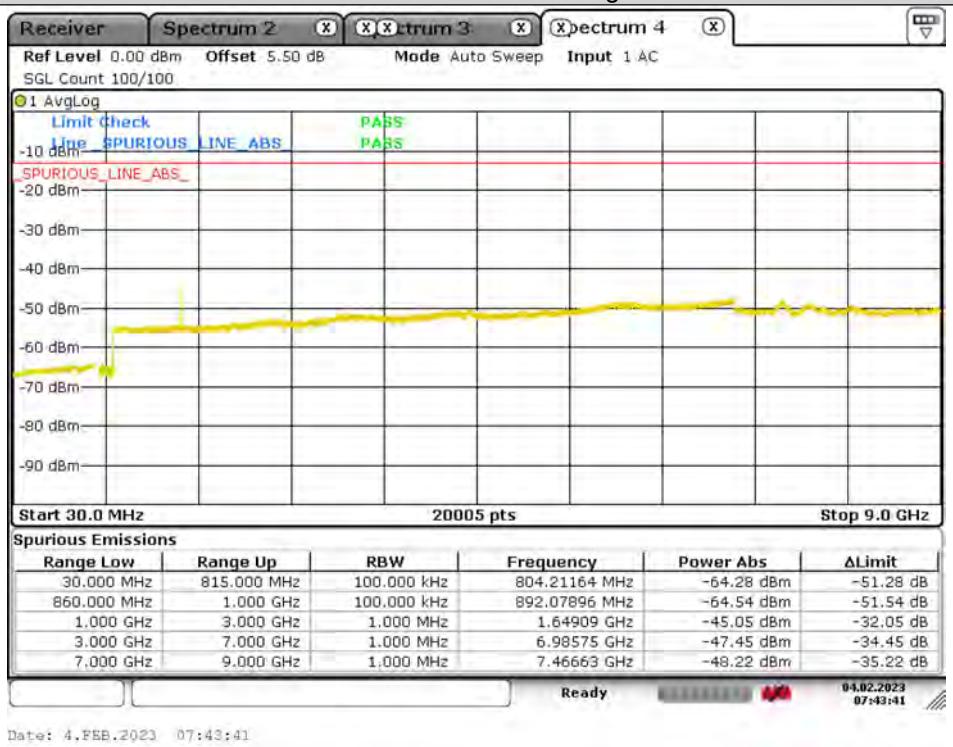
Band5-3MHz-16QAM-20635-1RB#0-Range3:30~1000MHz



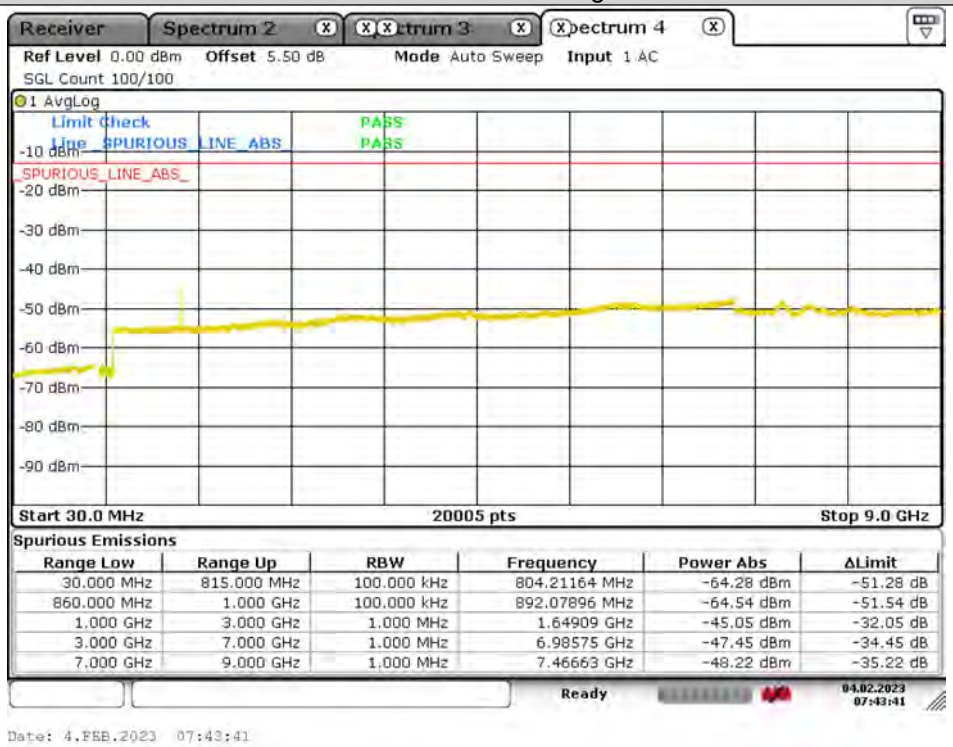
Band5-3MHz-16QAM-20635-1RB#0-Range4:1000~9000MHz



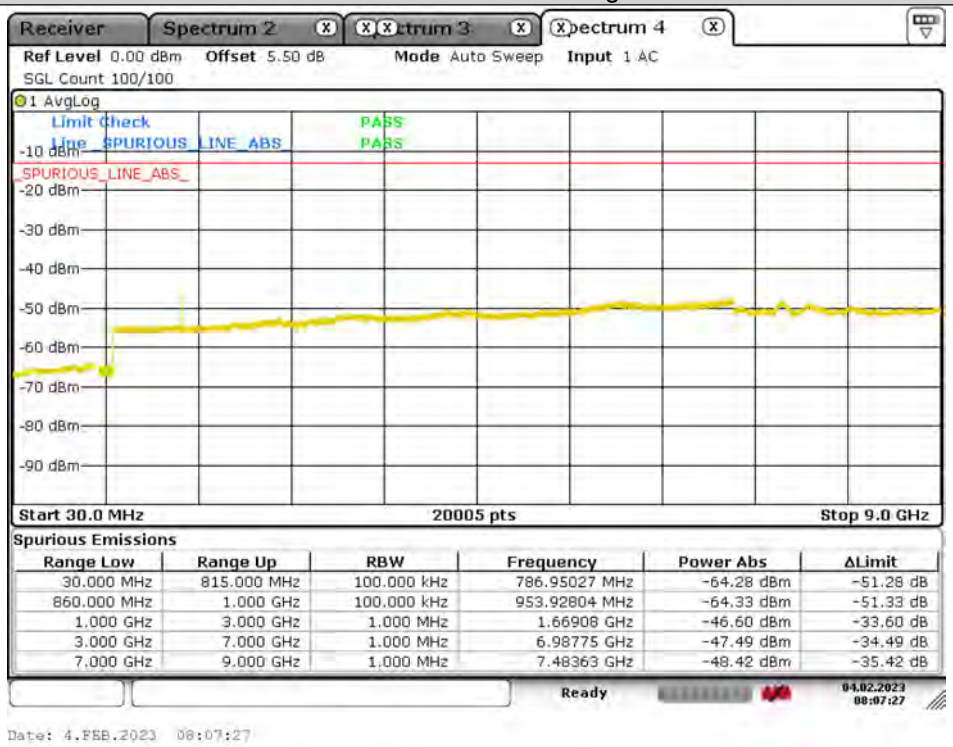
Band5-5MHz-QPSK-20425-1RB#0-Range3:30~1000MHz



Band5-5MHz-QPSK-20425-1RB#0-Range4:1000~9000MHz



Band5-5MHz-QPSK-20525-1RB#0-Range3:30~1000MHz

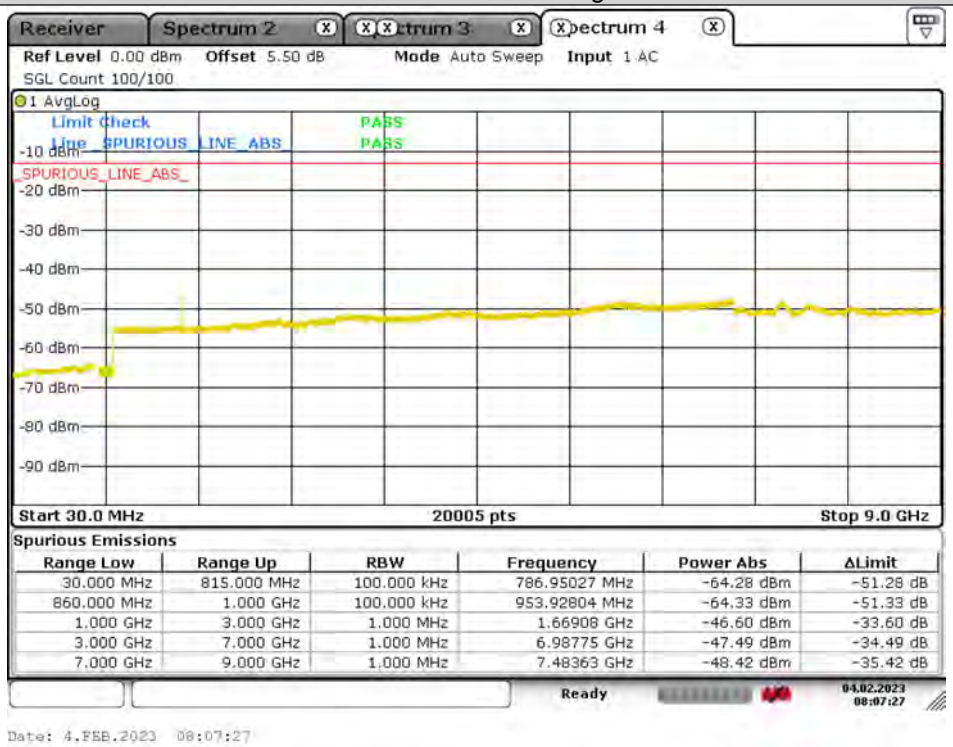


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	786.95027 MHz	-64.28 dBm	-51.28 dB
860.000 MHz	1.000 GHz	100.000 kHz	953.92804 MHz	-64.33 dBm	-51.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-46.60 dBm	-33.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-47.49 dBm	-34.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.48363 GHz	-48.42 dBm	-35.42 dB

Date: 4.FEB.2023 08:07:27

Band5-5MHz-QPSK-20525-1RB#0-Range4:1000~9000MHz



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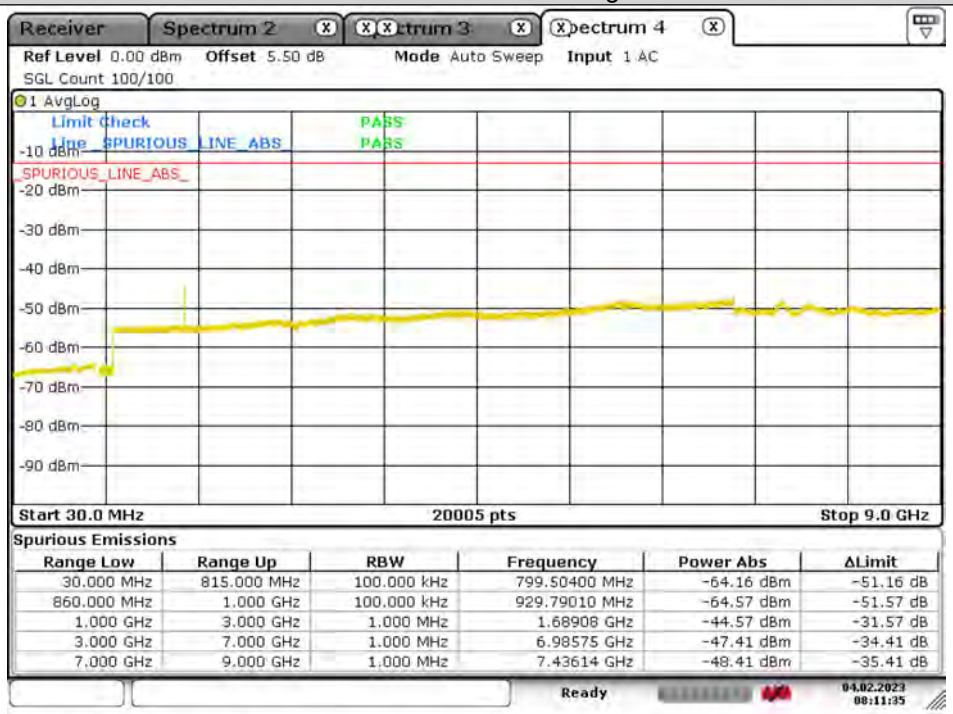
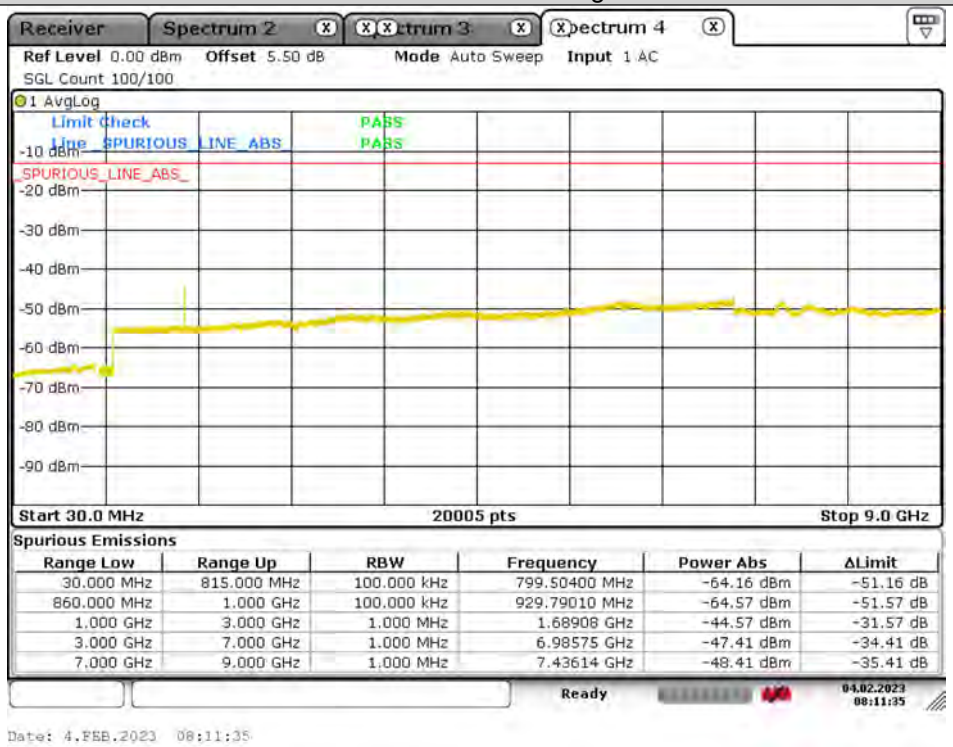
Date: 4.FEB.2023 08:07:27

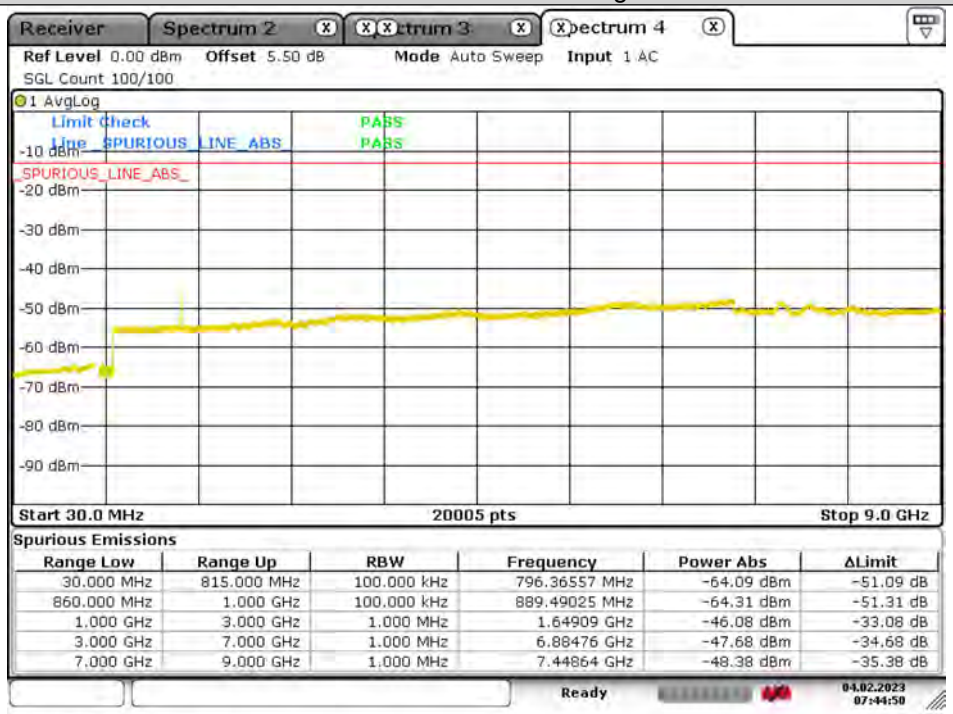
Band5-5MHz-QPSK-20625-1RB#0-Range3:30~1000MHz



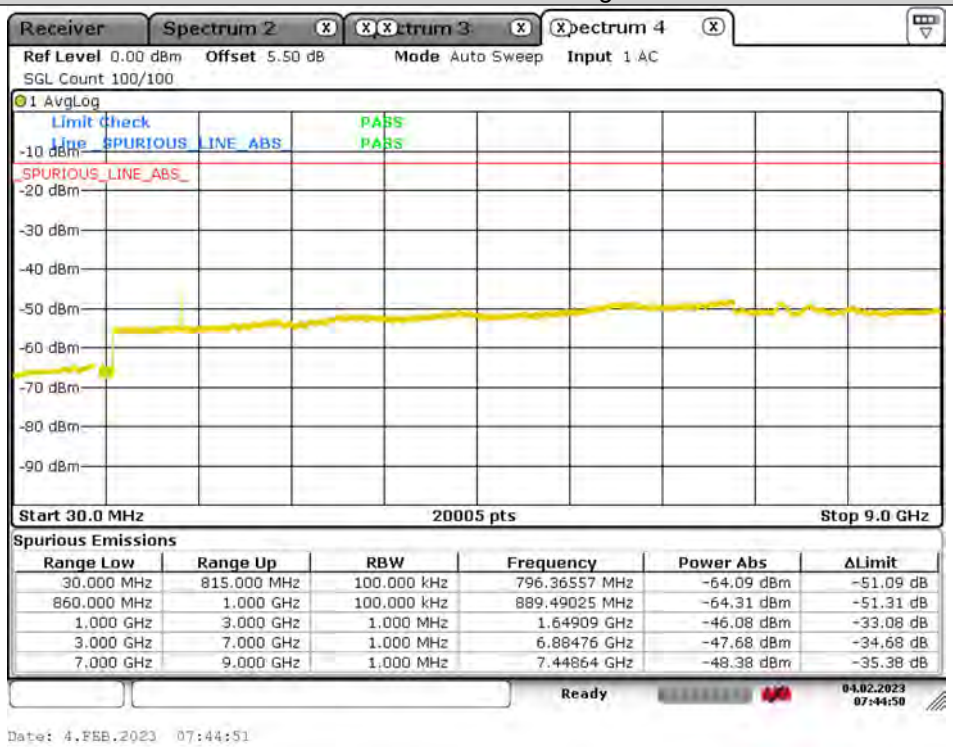
Band5-5MHz-QPSK-20625-1RB#0-Range4:1000~9000MHz



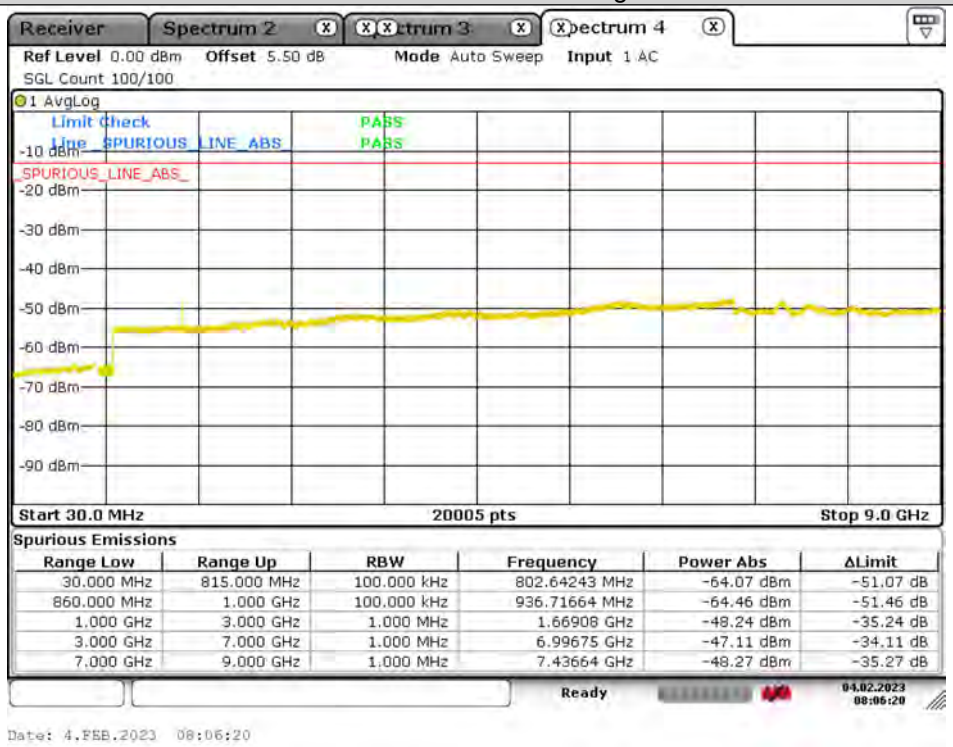
Band5-5MHz-16QAM-20425-1RB#0-Range3:30~1000MHz



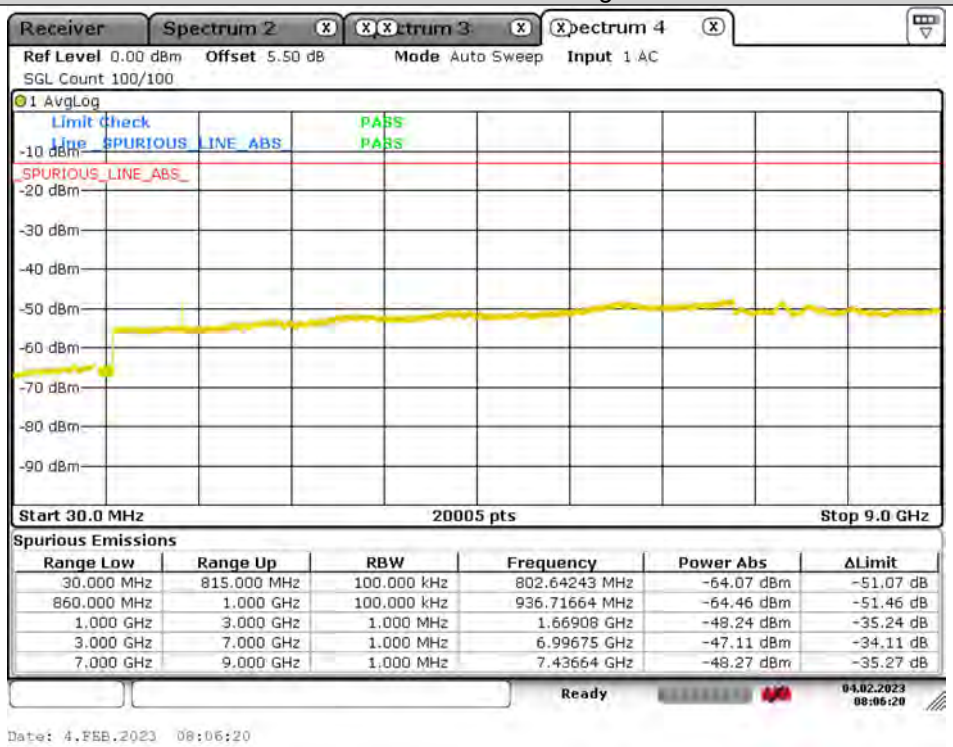
Band5-5MHz-16QAM-20425-1RB#0-Range4:1000~9000MHz



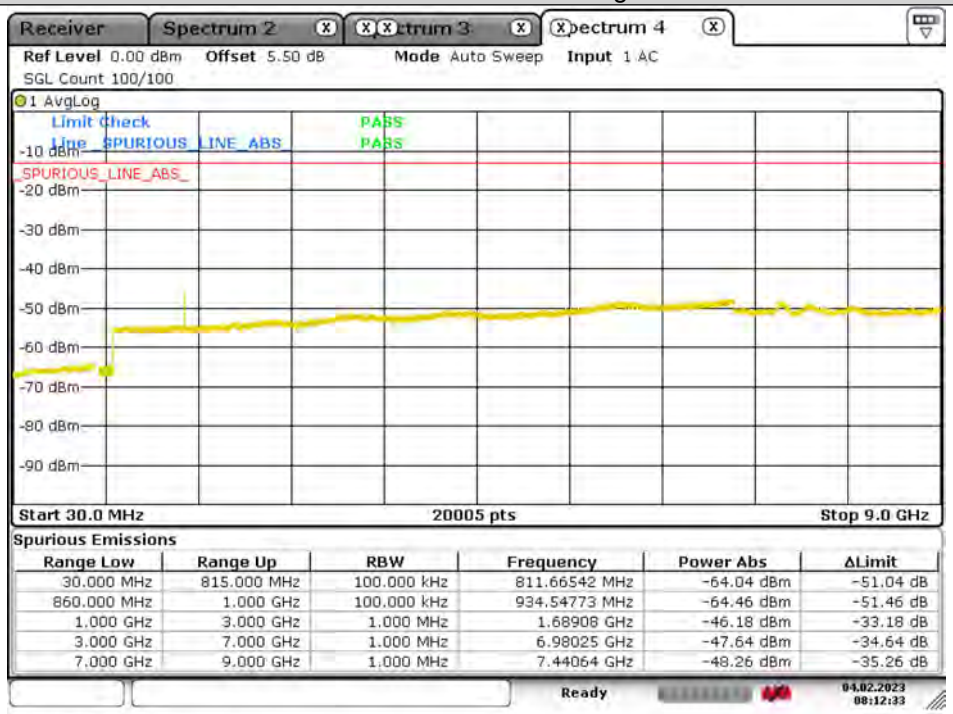
Band5-5MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



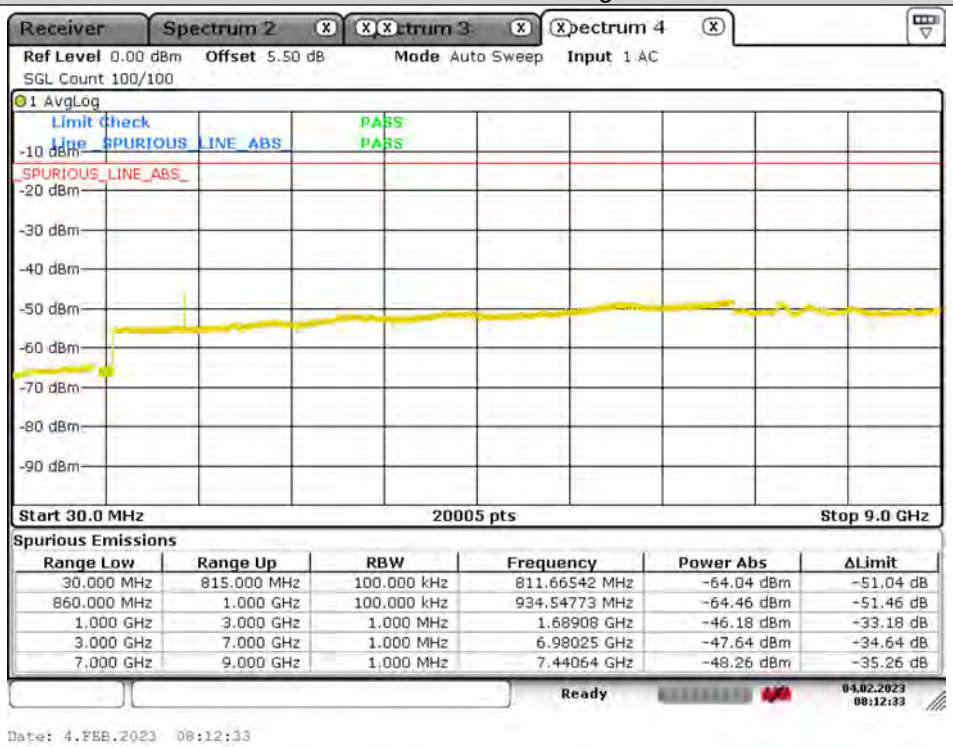
Band5-5MHz-16QAM-20525-1RB#0-Range4:1000~9000MHz



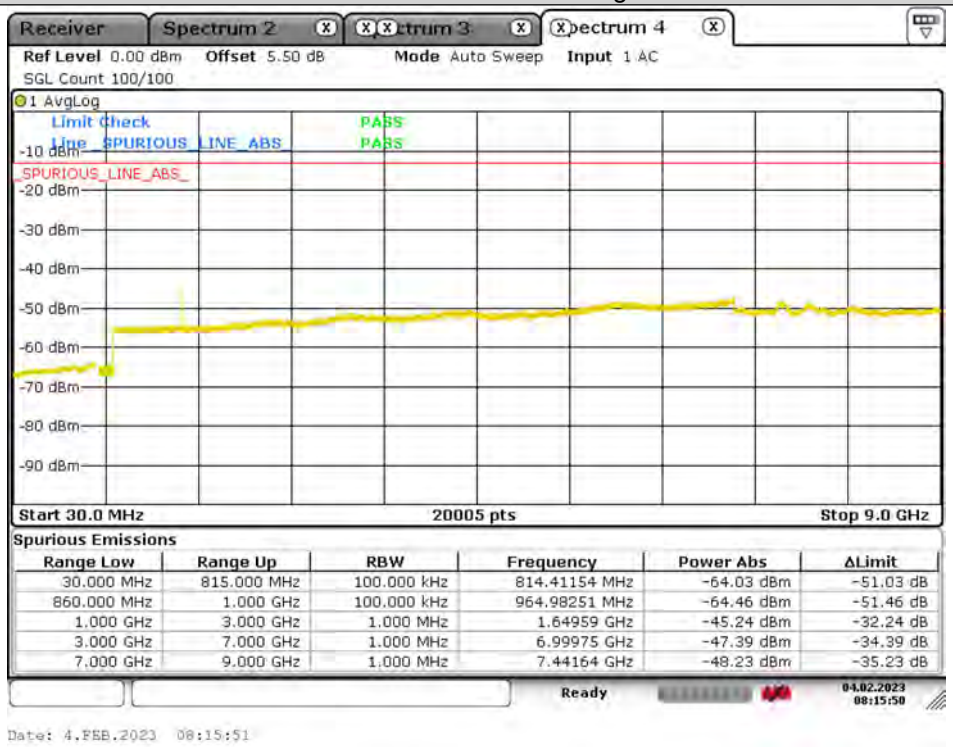
Band5-5MHz-16QAM-20625-1RB#0-Range3:30~1000MHz



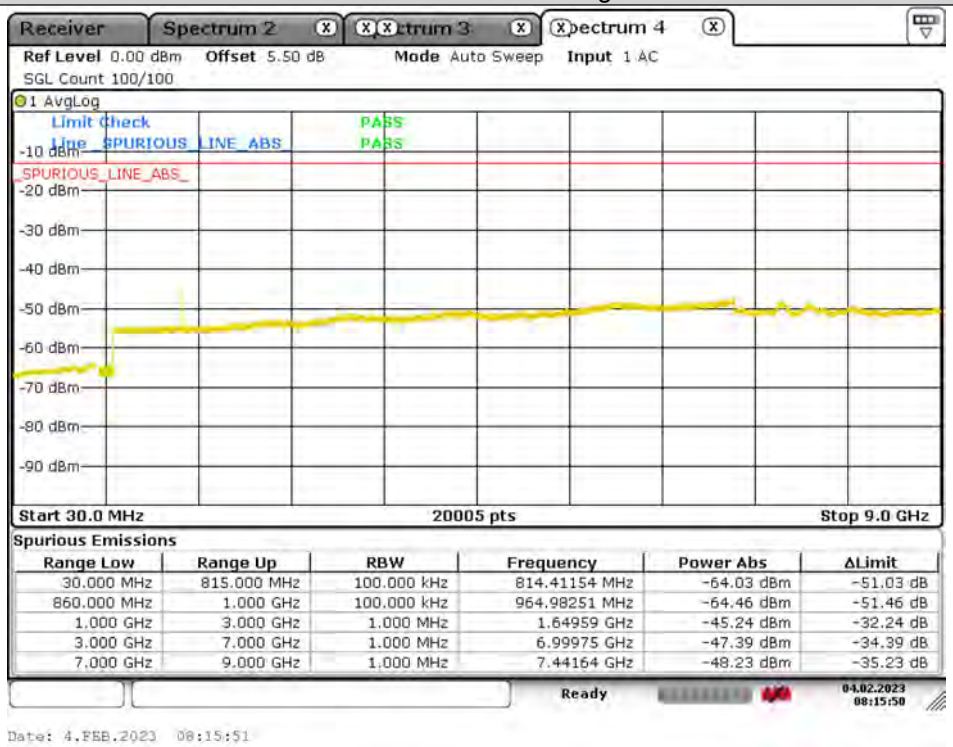
Band5-5MHz-16QAM-20625-1RB#0-Range4:1000~9000MHz



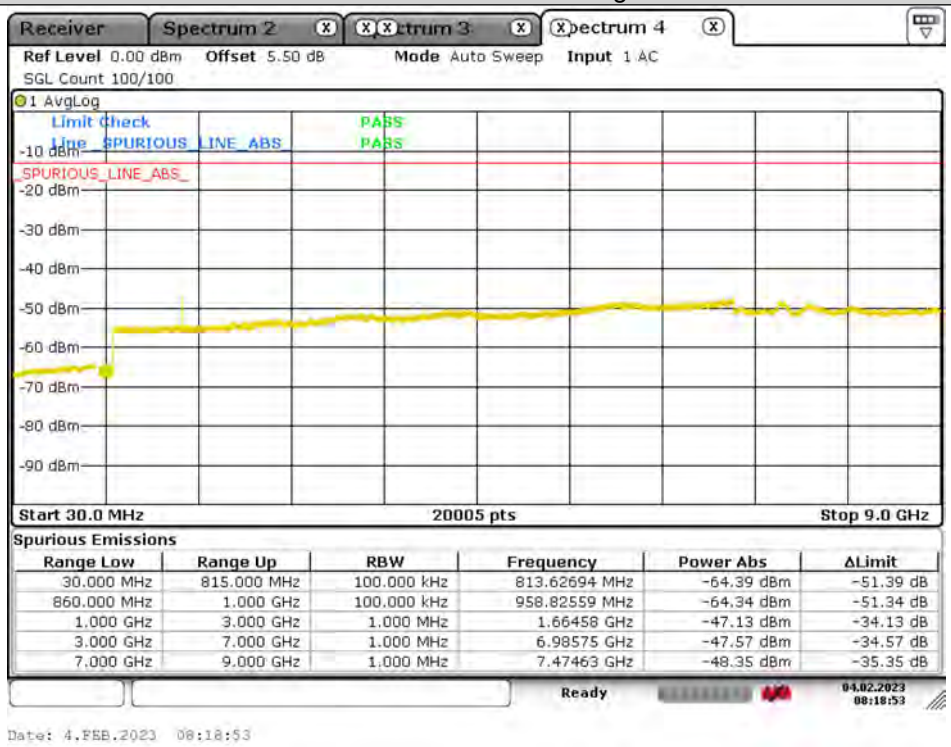
Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~9000MHz



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



Spurious Emissions

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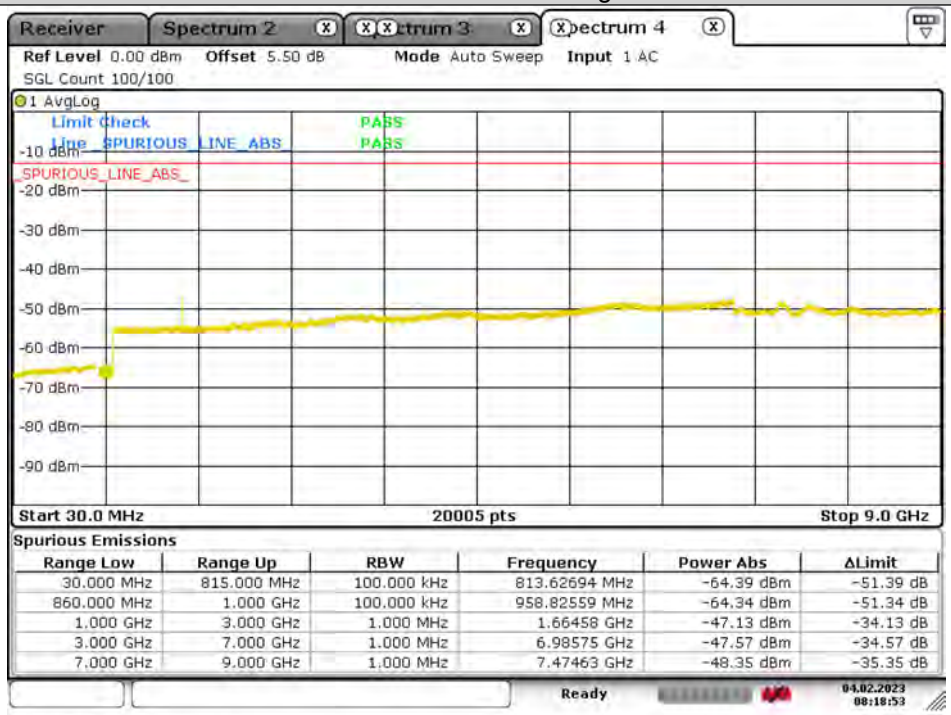
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-47.57 dBm	-34.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.47463 GHz	-48.35 dBm	-35.35 dB

Date: 4.FEB.2023 08:18:53

Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~9000MHz



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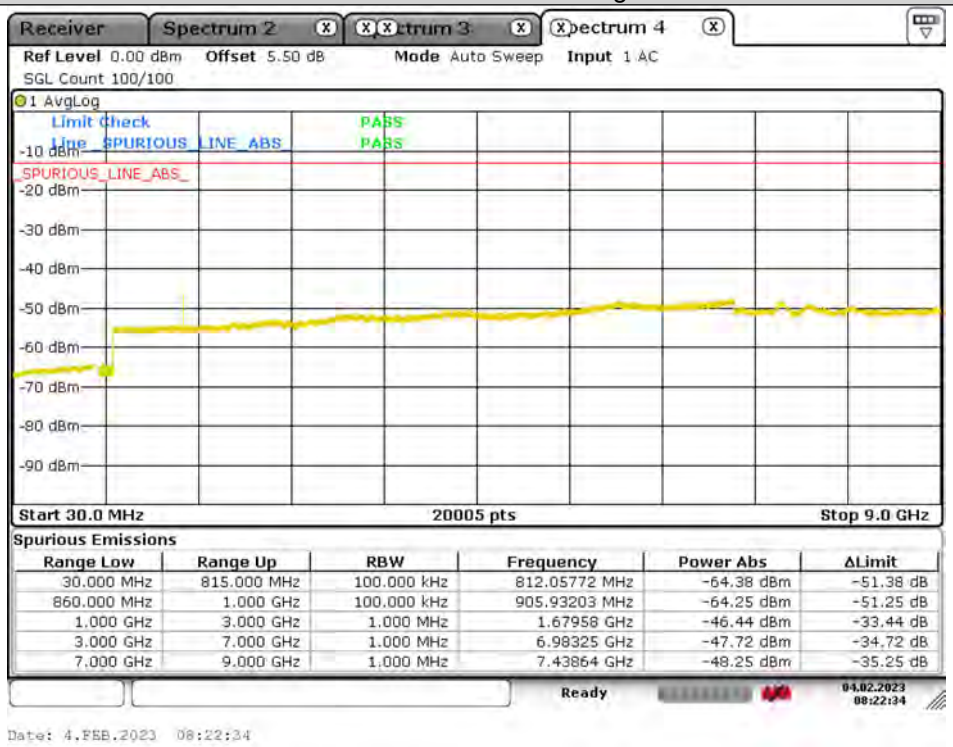
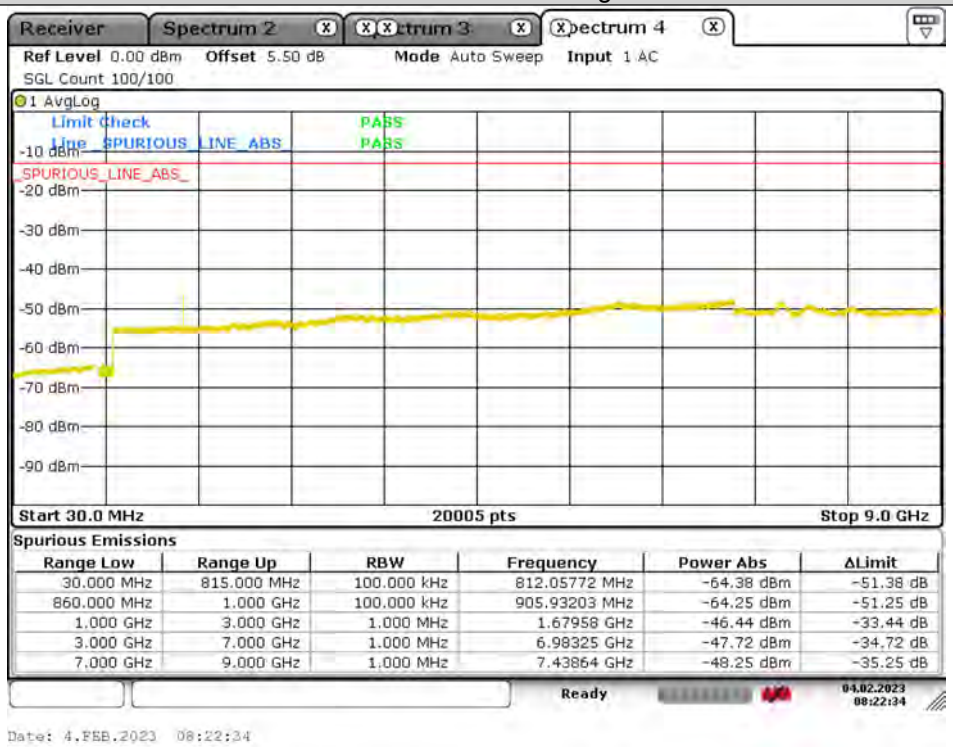
7.000 GHz	9.000 GHz	1.000 MHz	7.47463 GHz	-48.35 dBm	-35.35 dB

Date: 4.FEB.2023 08:18:53

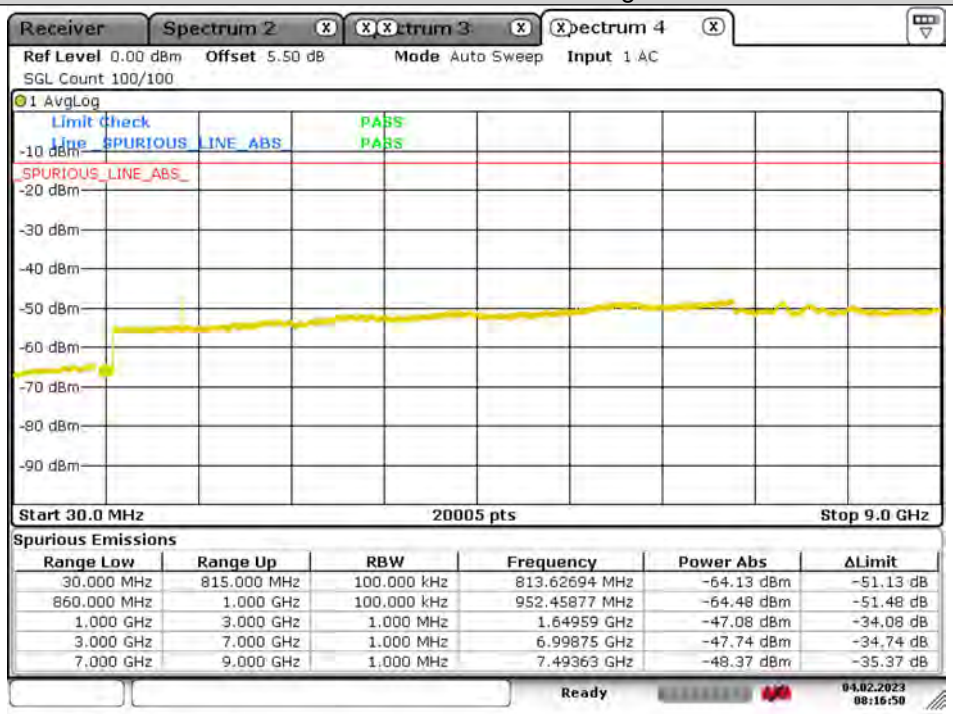
Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



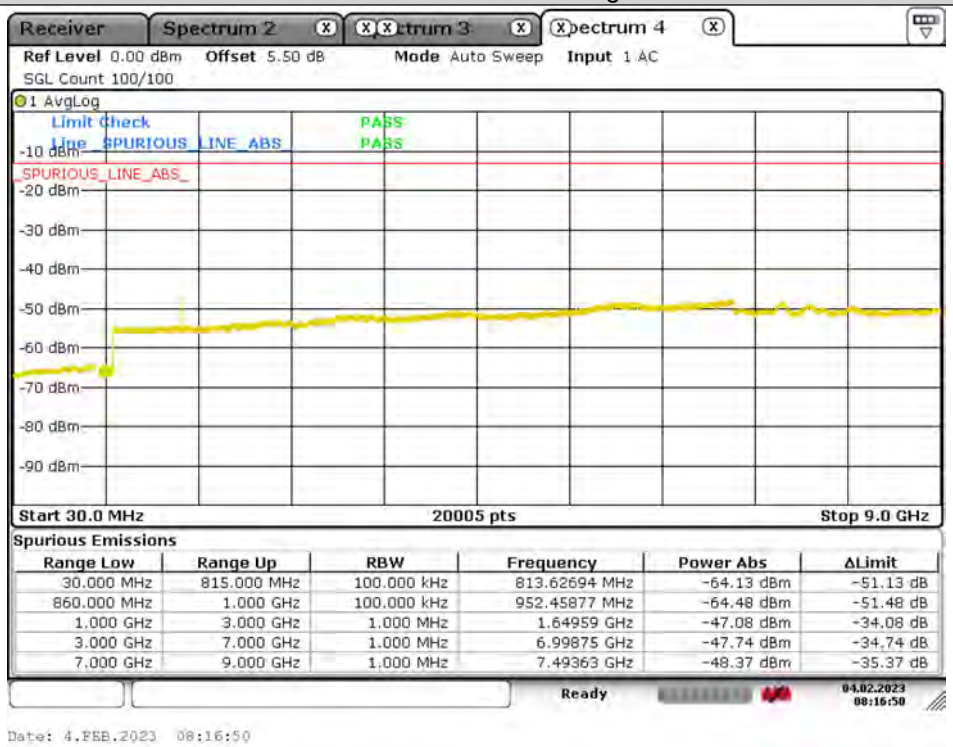
Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~9000MHz



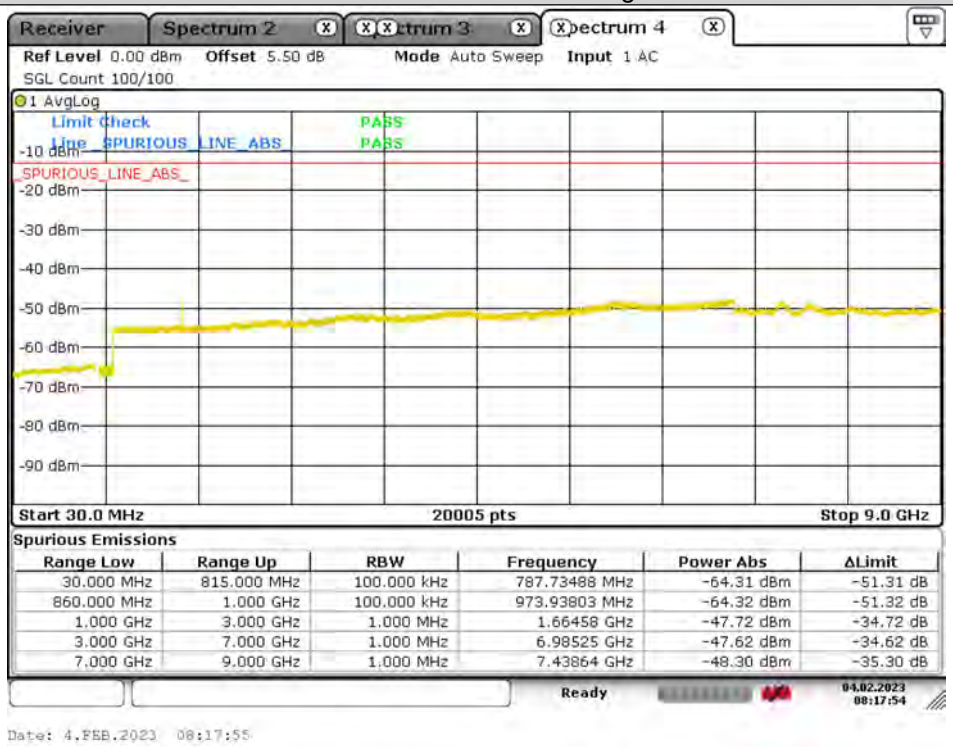
Band5-10MHz-16QAM-20450-1RB#0-Range3:30~1000MHz



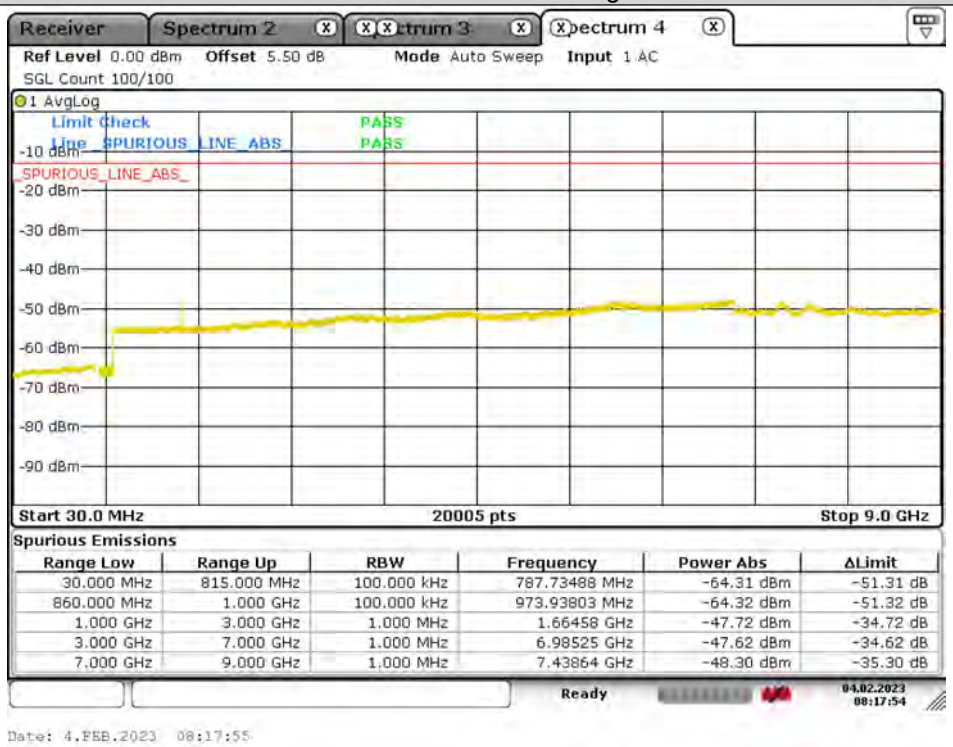
Band5-10MHz-16QAM-20450-1RB#0-Range4:1000~9000MHz



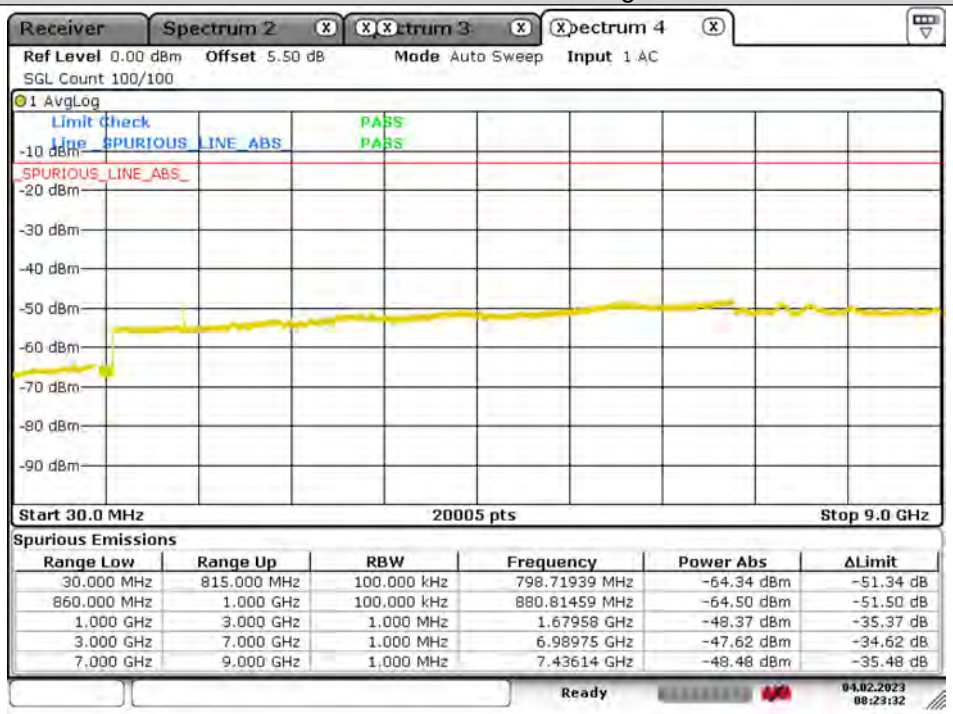
Band5-10MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



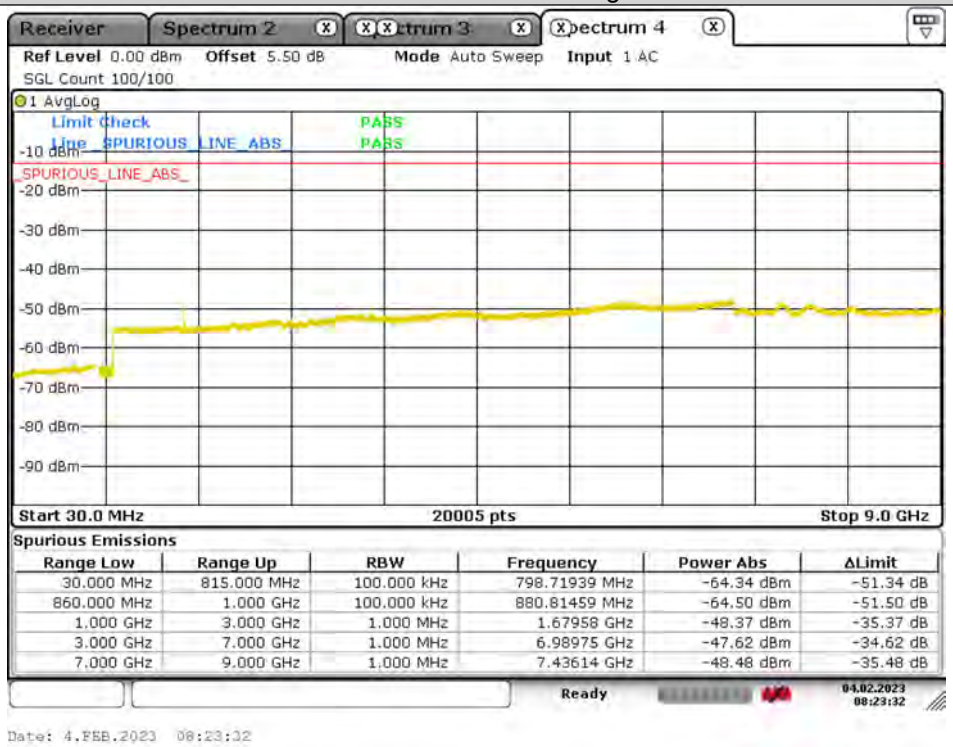
Band5-10MHz-16QAM-20525-1RB#0-Range4:1000~9000MHz



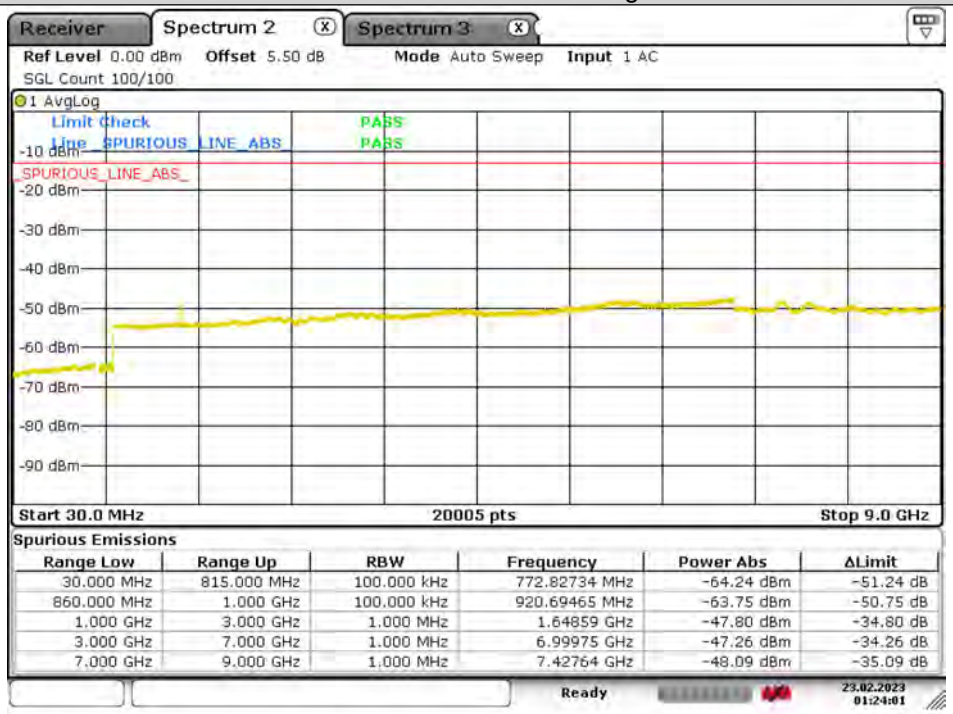
Band5-10MHz-16QAM-20600-1RB#0-Range3:30~1000MHz



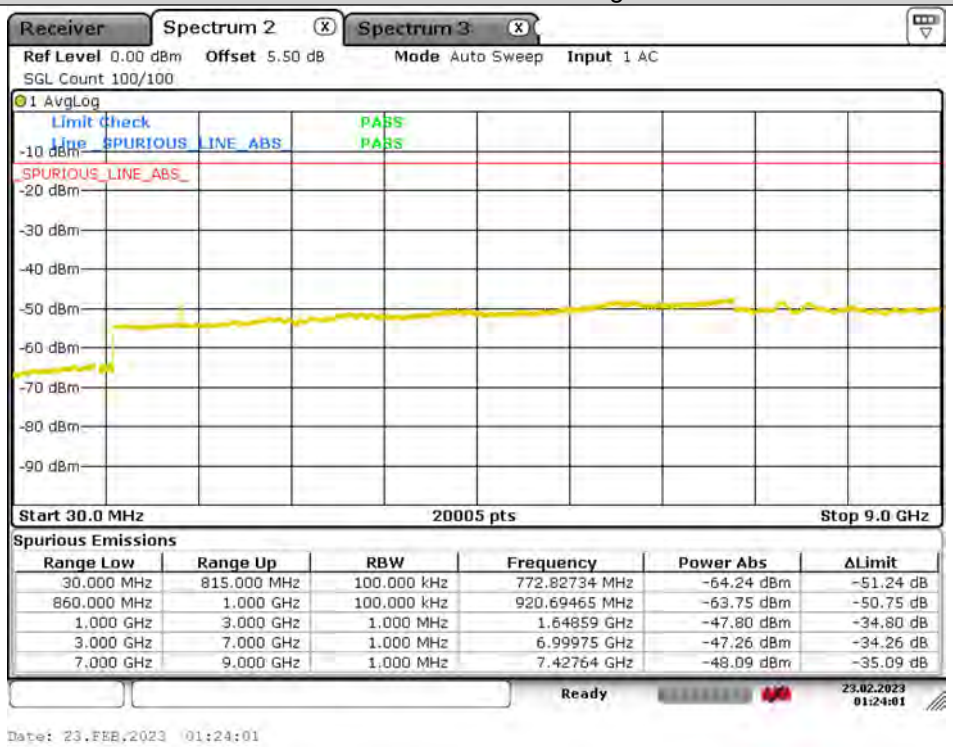
Band5-10MHz-16QAM-20600-1RB#0-Range4:1000~9000MHz



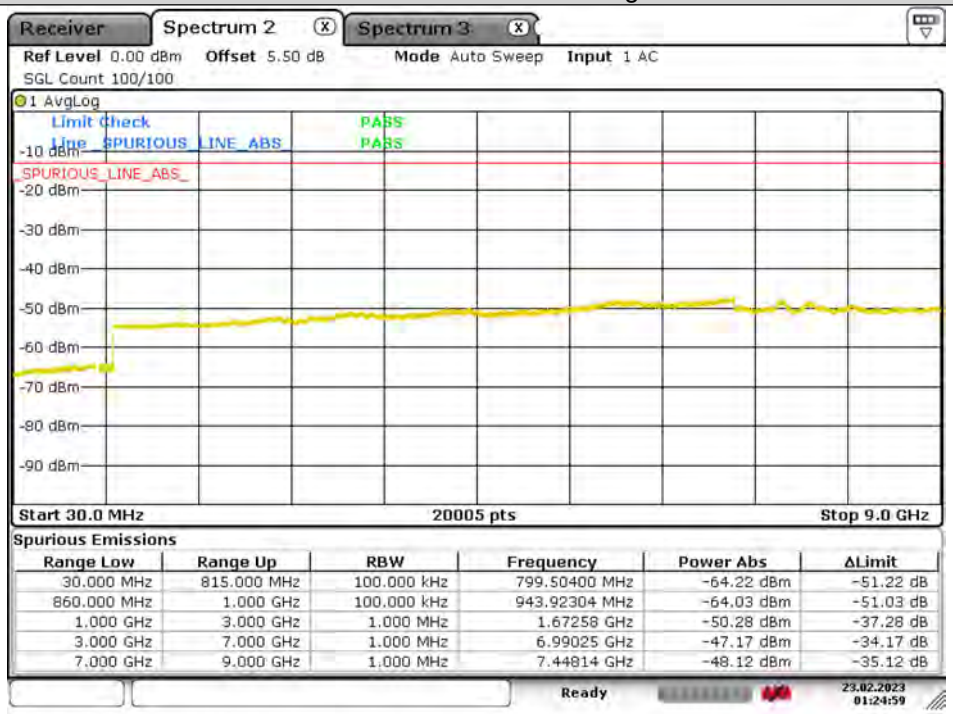
Band5-1.4MHz-64QAM-20407-1RB#0-Range1:30~1000MHz



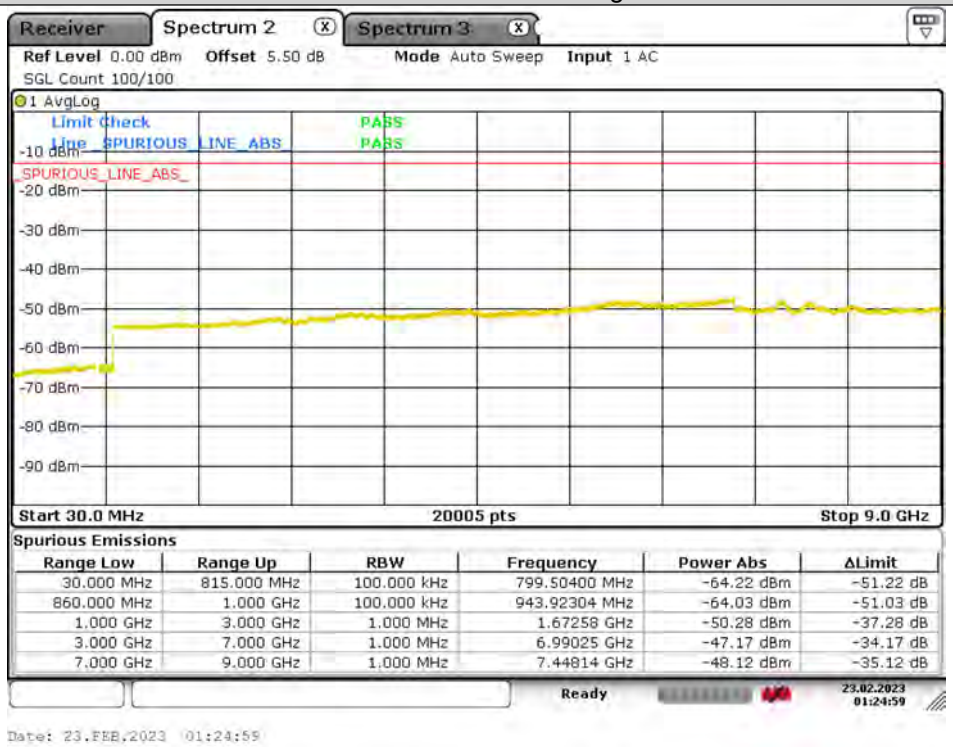
Band5-1.4MHz-64QAM-20407-1RB#0-Range2:1000~9000MHz



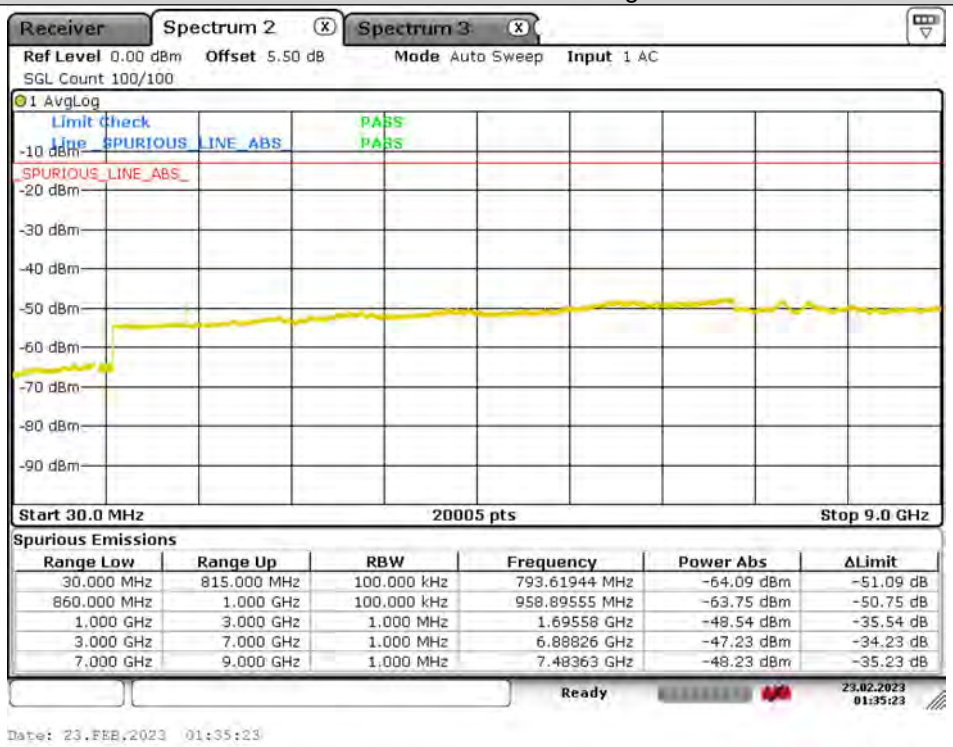
Band5-1.4MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-64QAM-20525-1RB#0-Range2:1000~9000MHz



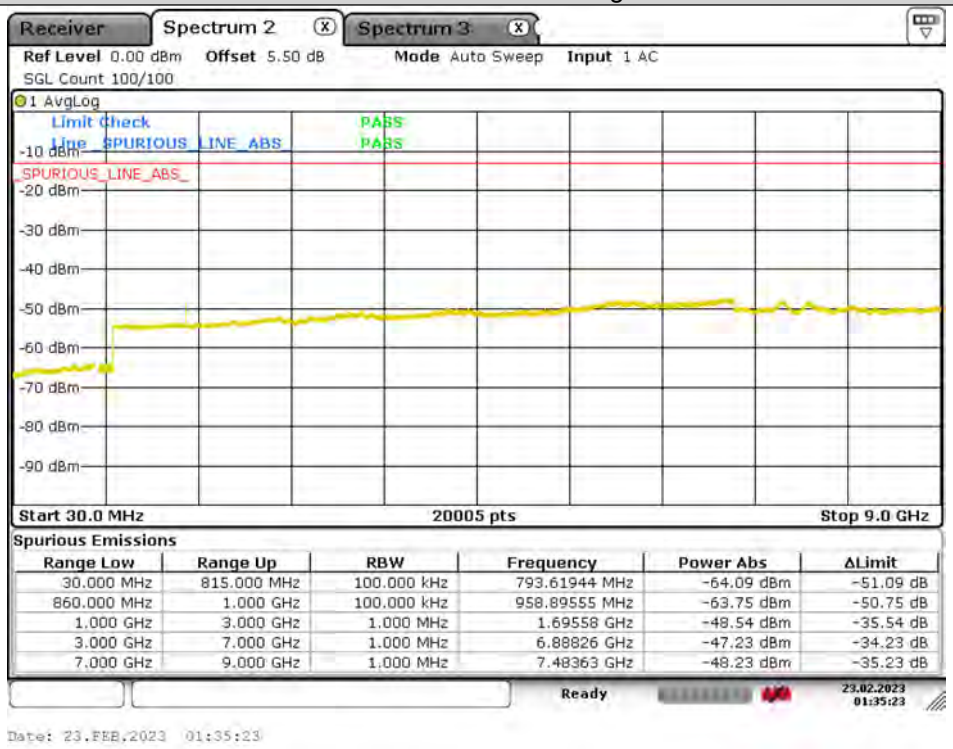
Band5-1.4MHz-64QAM-20643-1RB#0-Range1:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	793.61944 MHz	-64.09 dBm	-51.09 dB
860.000 MHz	1.000 GHz	100.000 kHz	958.89555 MHz	-63.75 dBm	-50.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69558 GHz	-48.54 dBm	-35.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88826 GHz	-47.23 dBm	-34.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.48363 GHz	-48.23 dBm	-35.23 dB

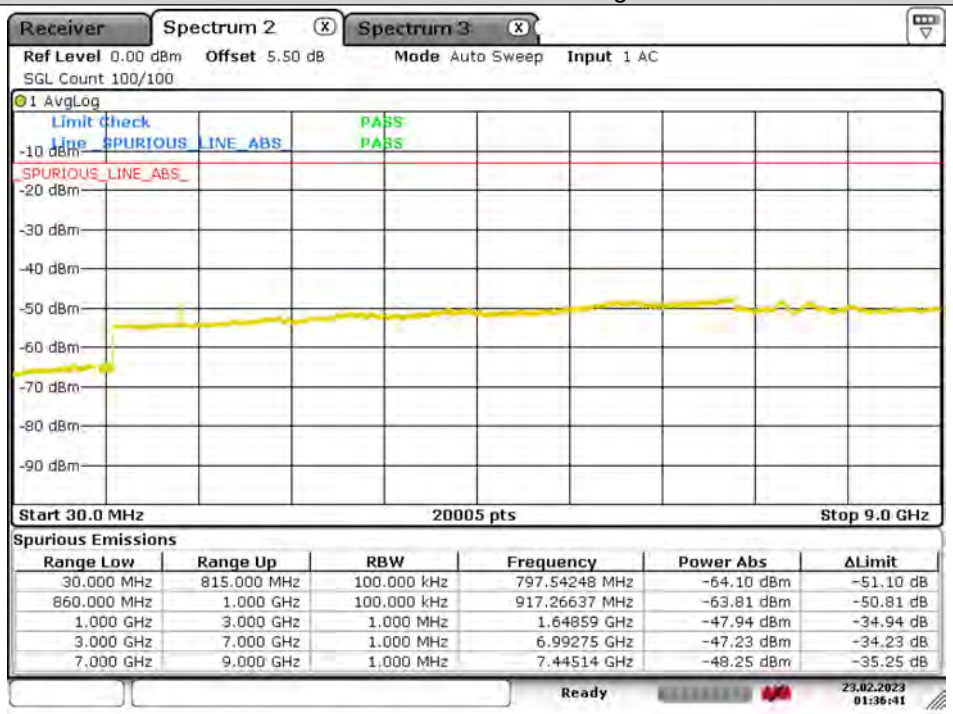
Band5-1.4MHz-64QAM-20643-1RB#0-Range2:1000~9000MHz



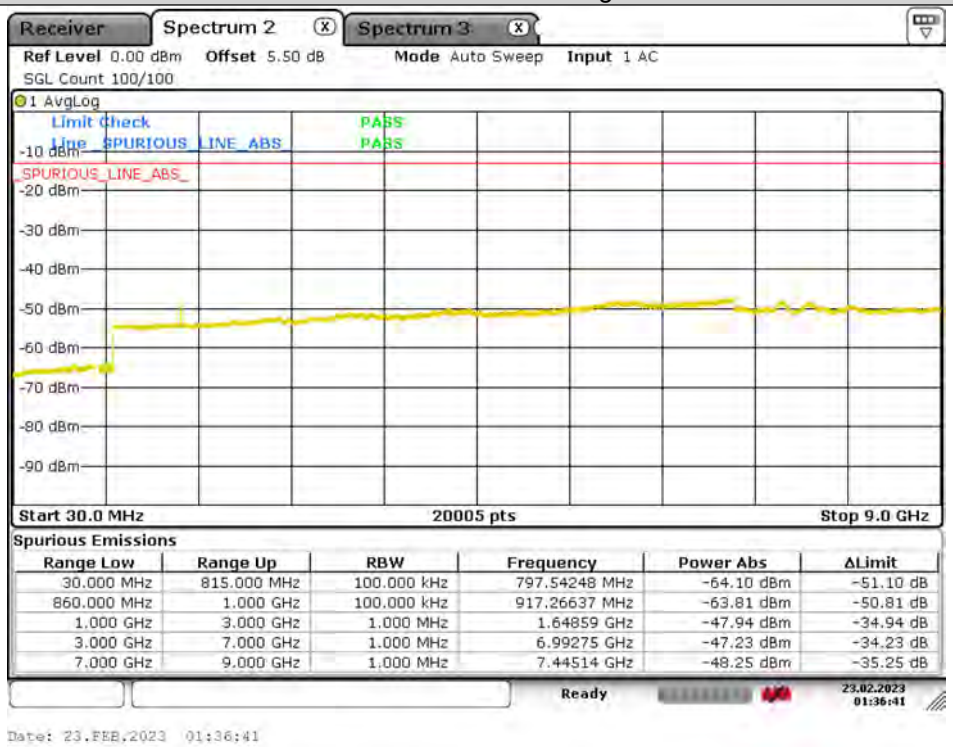
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	793.61944 MHz	-64.09 dBm	-51.09 dB
860.000 MHz	1.000 GHz	100.000 kHz	958.89555 MHz	-63.75 dBm	-50.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69558 GHz	-48.54 dBm	-35.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88826 GHz	-47.23 dBm	-34.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.48363 GHz	-48.23 dBm	-35.23 dB

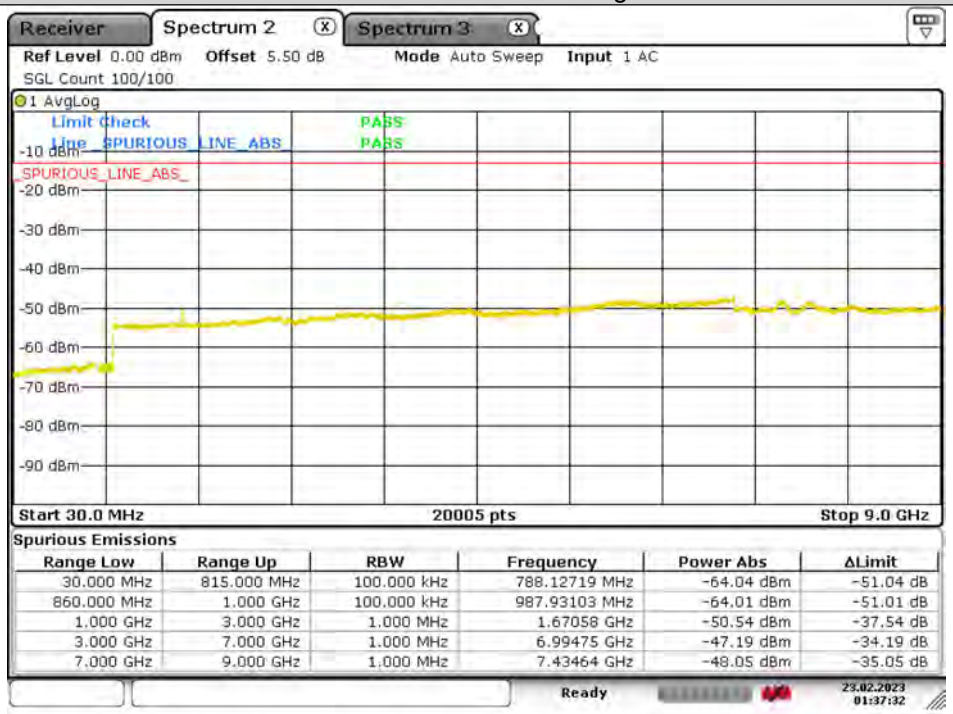
Band5-3MHz-64QAM-20415-1RB#0-Range1:30~1000MHz



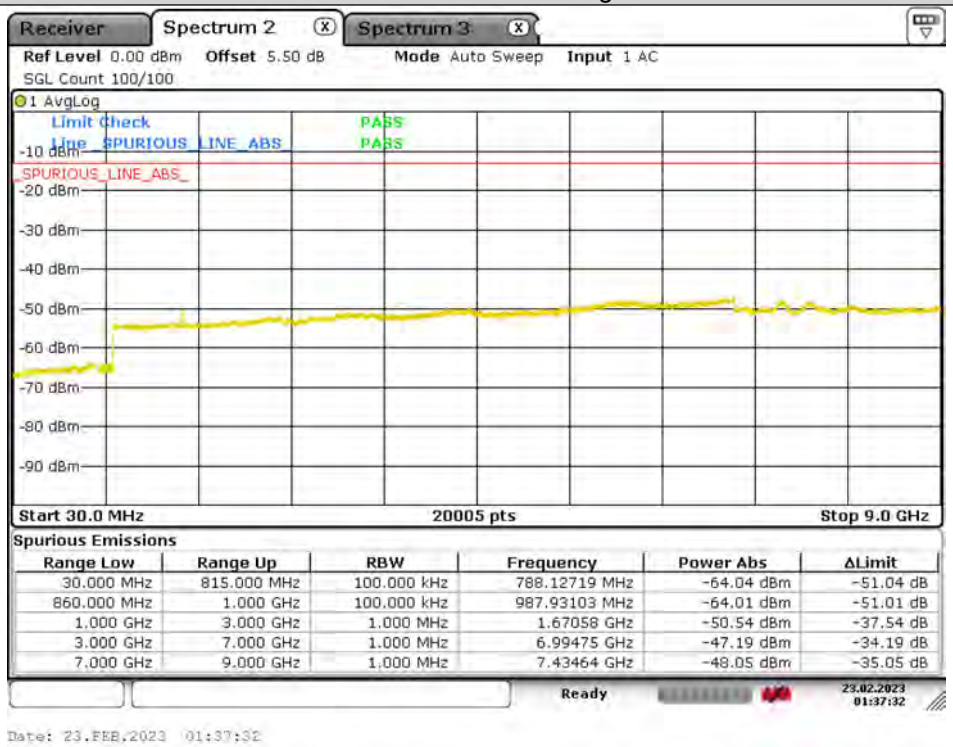
Band5-3MHz-64QAM-20415-1RB#0-Range2:1000~9000MHz



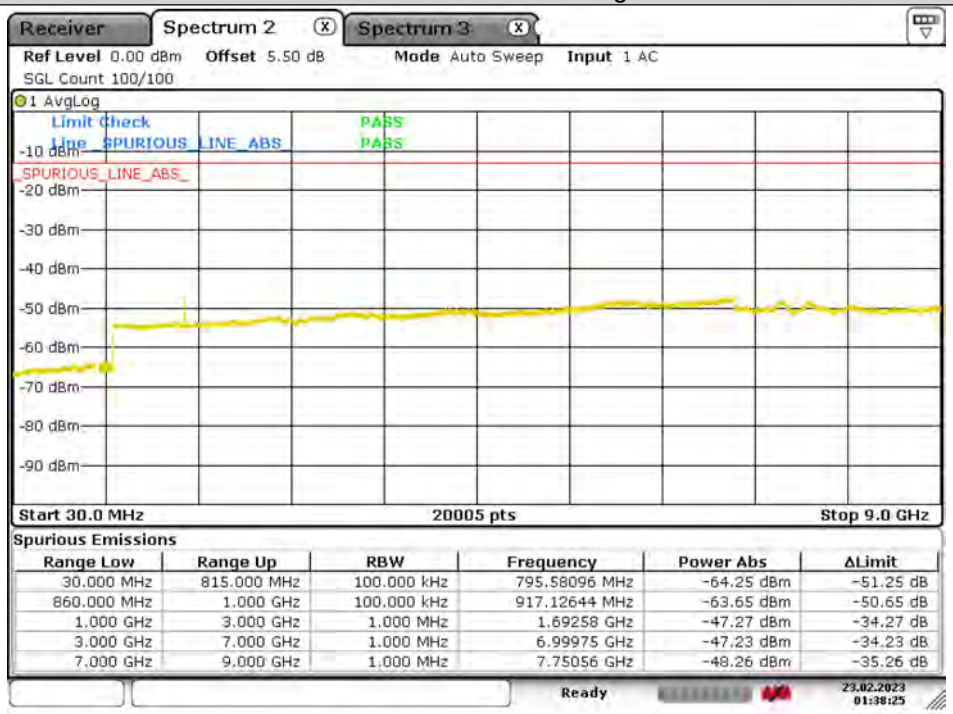
Band5-3MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



Band5-3MHz-64QAM-20525-1RB#0-Range2:1000~9000MHz



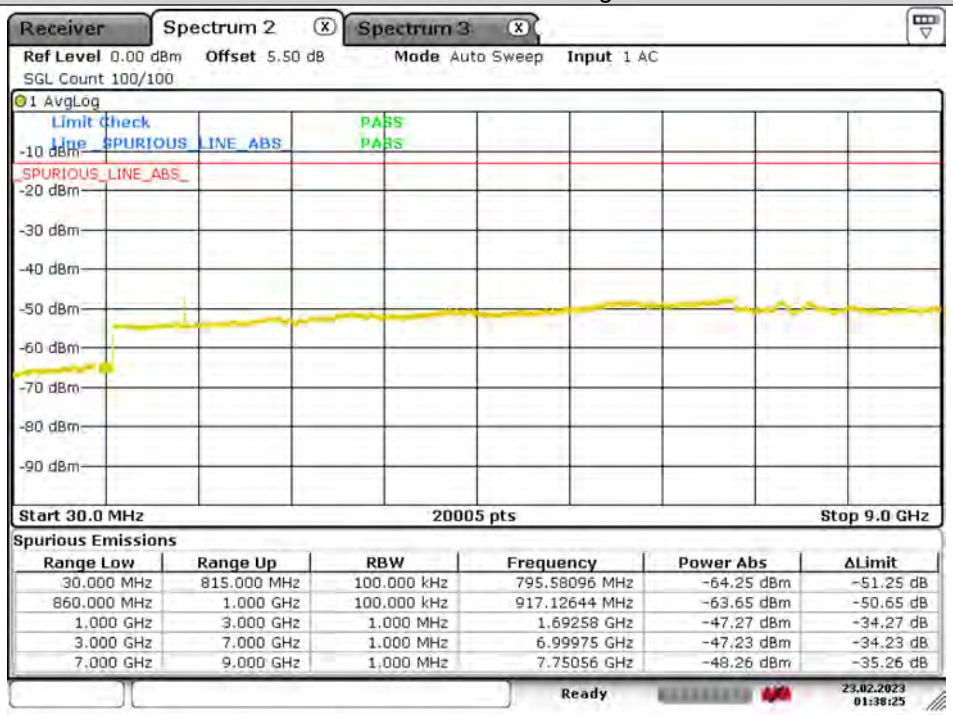
Band5-3MHz-64QAM-20635-1RB#0-Range1:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	795.58096 MHz	-64.25 dBm	-51.25 dB
860.000 MHz	1.000 GHz	100.000 kHz	917.12644 MHz	-63.65 dBm	-50.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69258 GHz	-47.27 dBm	-34.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-47.23 dBm	-34.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.75056 GHz	-48.26 dBm	-35.26 dB

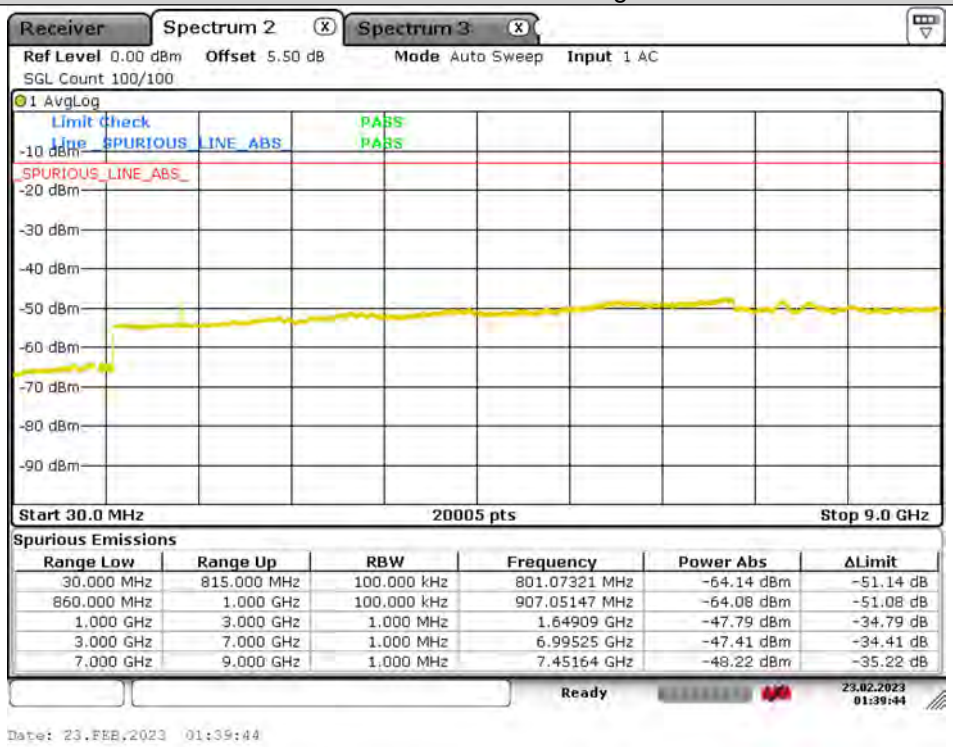
Band5-3MHz-64QAM-20635-1RB#0-Range2:1000~9000MHz



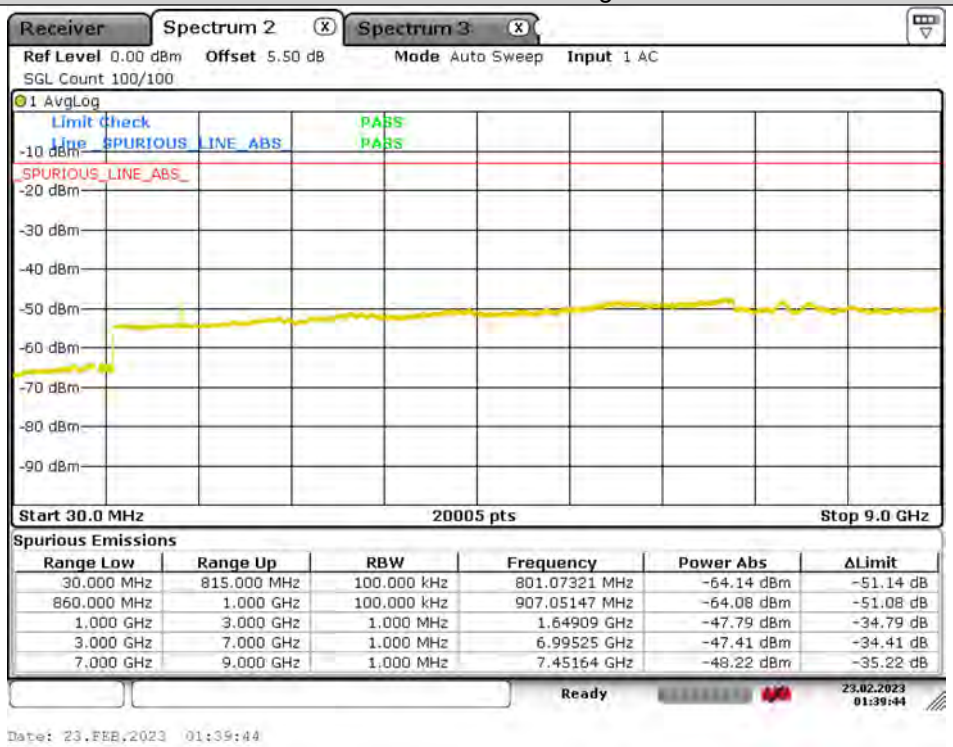
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	795.58096 MHz	-64.25 dBm	-51.25 dB
860.000 MHz	1.000 GHz	100.000 kHz	917.12644 MHz	-63.65 dBm	-50.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69258 GHz	-47.27 dBm	-34.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-47.23 dBm	-34.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.75056 GHz	-48.26 dBm	-35.26 dB

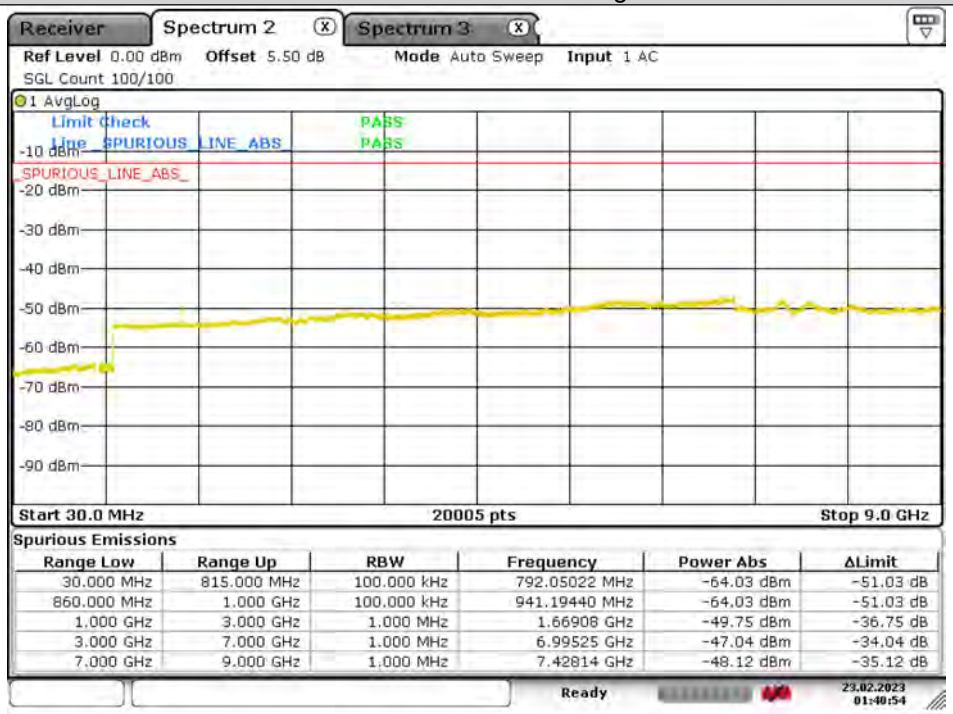
Band5-5MHz-64QAM-20425-1RB#0-Range1:30~1000MHz



Band5-5MHz-64QAM-20425-1RB#0-Range2:1000~9000MHz



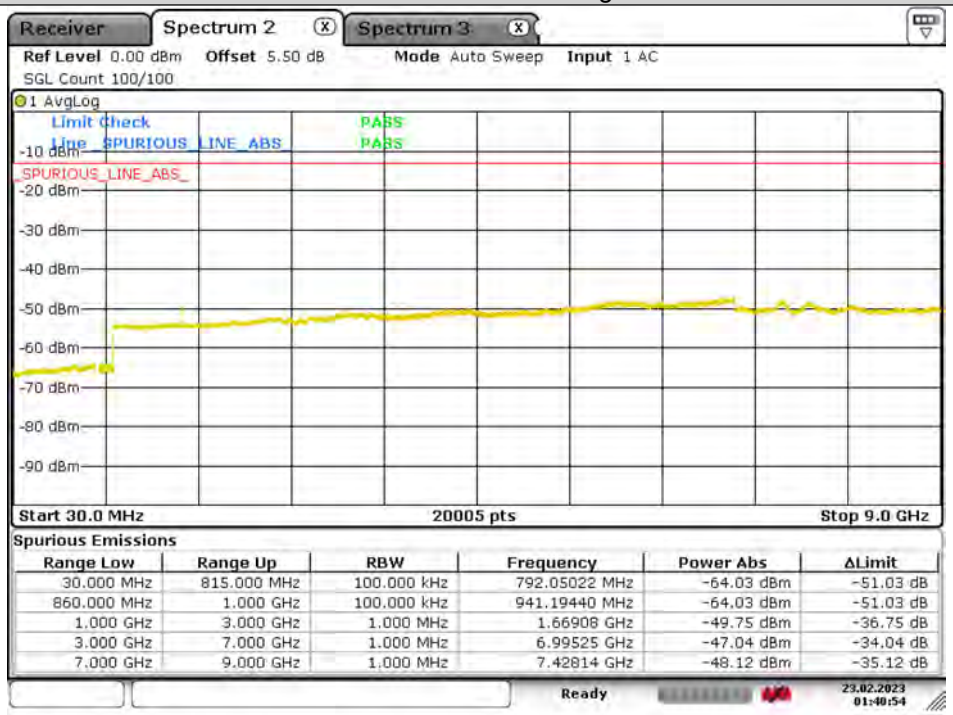
Band5-5MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	792.05022 MHz	-64.03 dBm	-51.03 dB
860.000 MHz	1.000 GHz	100.000 kHz	941.19440 MHz	-64.03 dBm	-51.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-49.75 dBm	-36.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-47.04 dBm	-34.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42814 GHz	-48.12 dBm	-35.12 dB

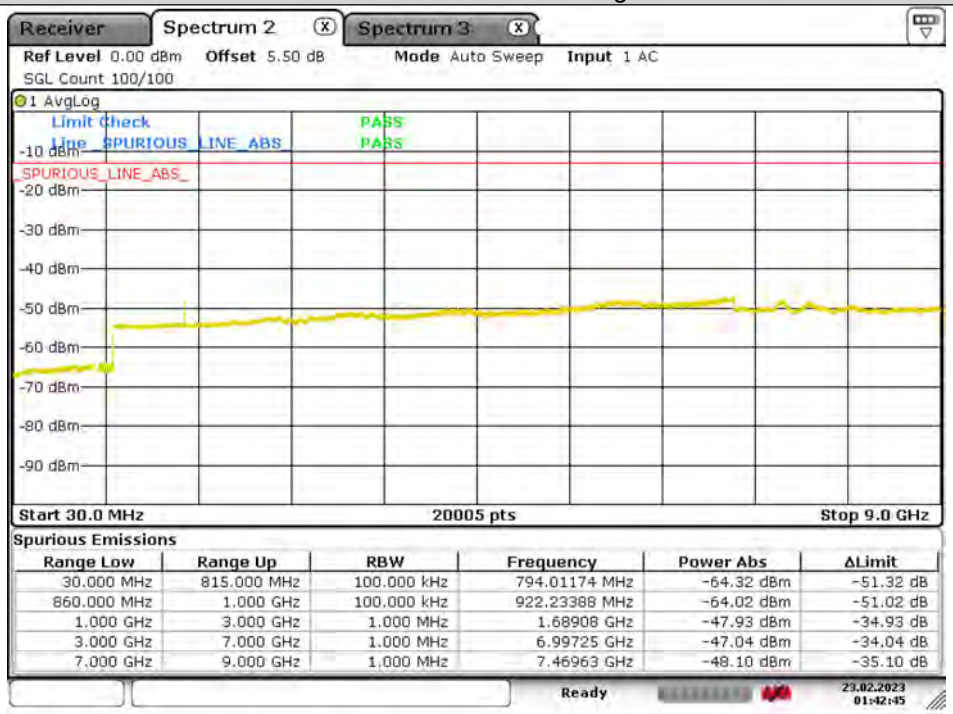
Band5-5MHz-64QAM-20525-1RB#0-Range2:1000~9000MHz



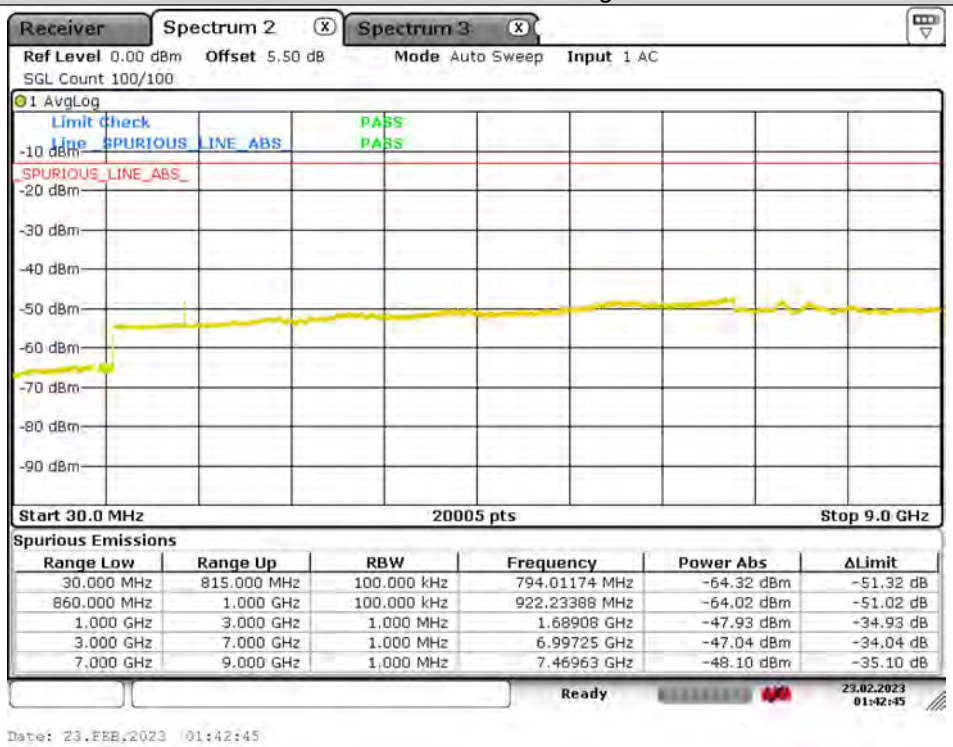
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	792.05022 MHz	-64.03 dBm	-51.03 dB
860.000 MHz	1.000 GHz	100.000 kHz	941.19440 MHz	-64.03 dBm	-51.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-49.75 dBm	-36.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-47.04 dBm	-34.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42814 GHz	-48.12 dBm	-35.12 dB

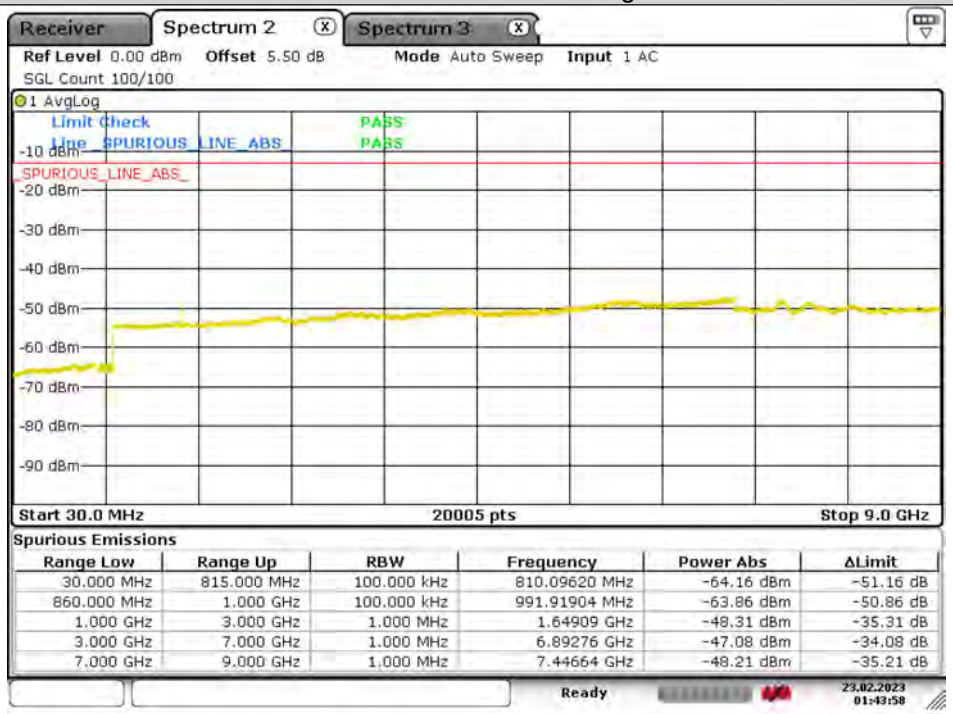
Band5-5MHz-64QAM-20625-1RB#0-Range1:30~1000MHz



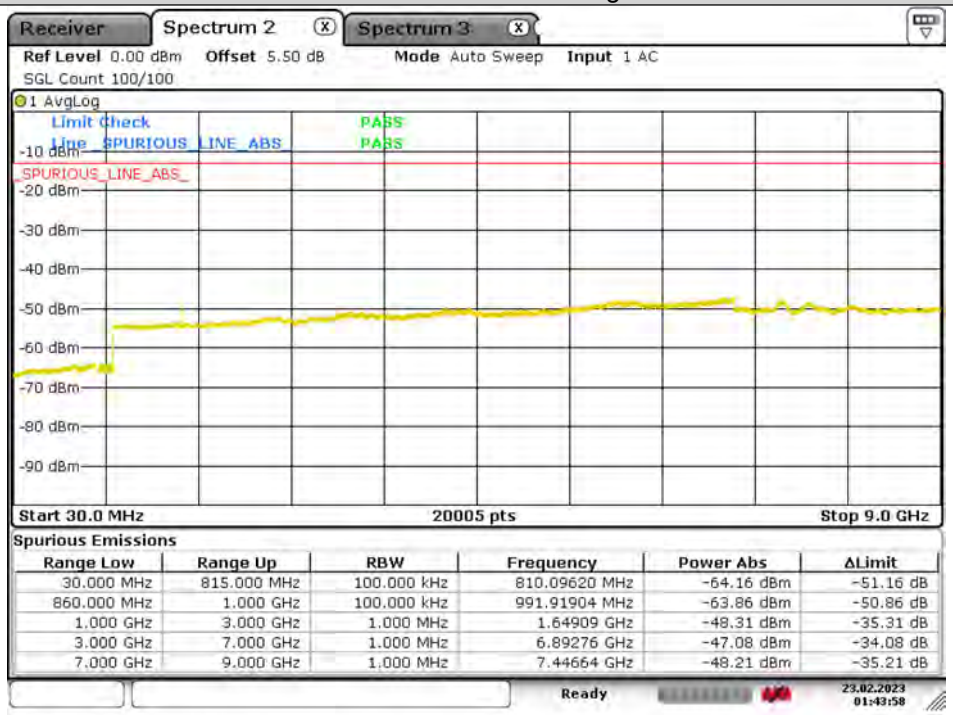
Band5-5MHz-64QAM-20625-1RB#0-Range2:1000~9000MHz



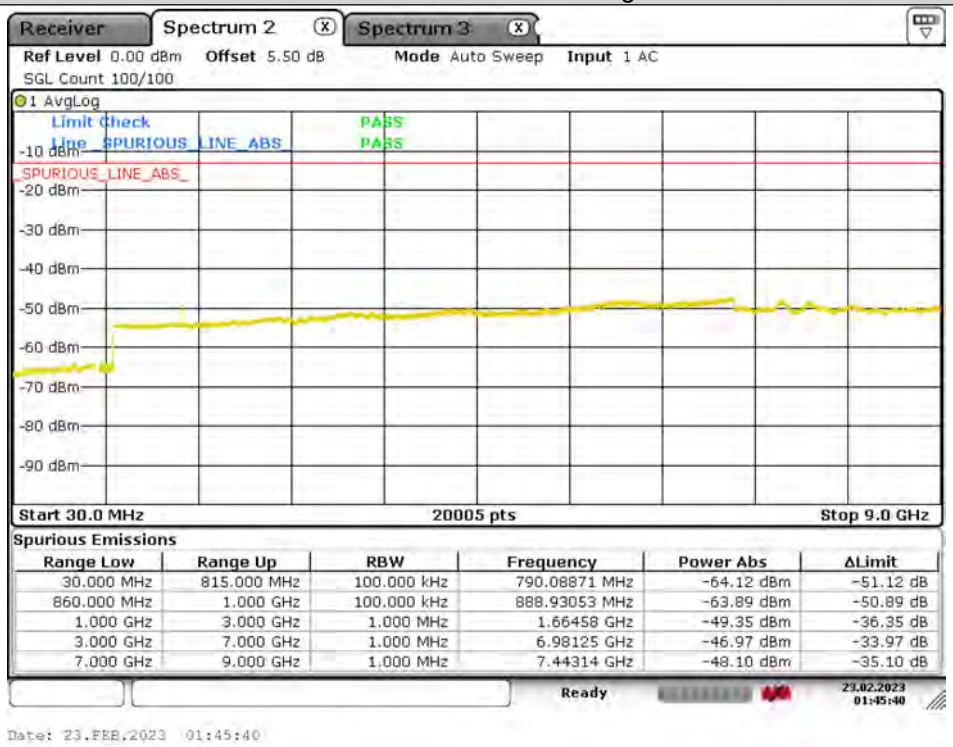
Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz



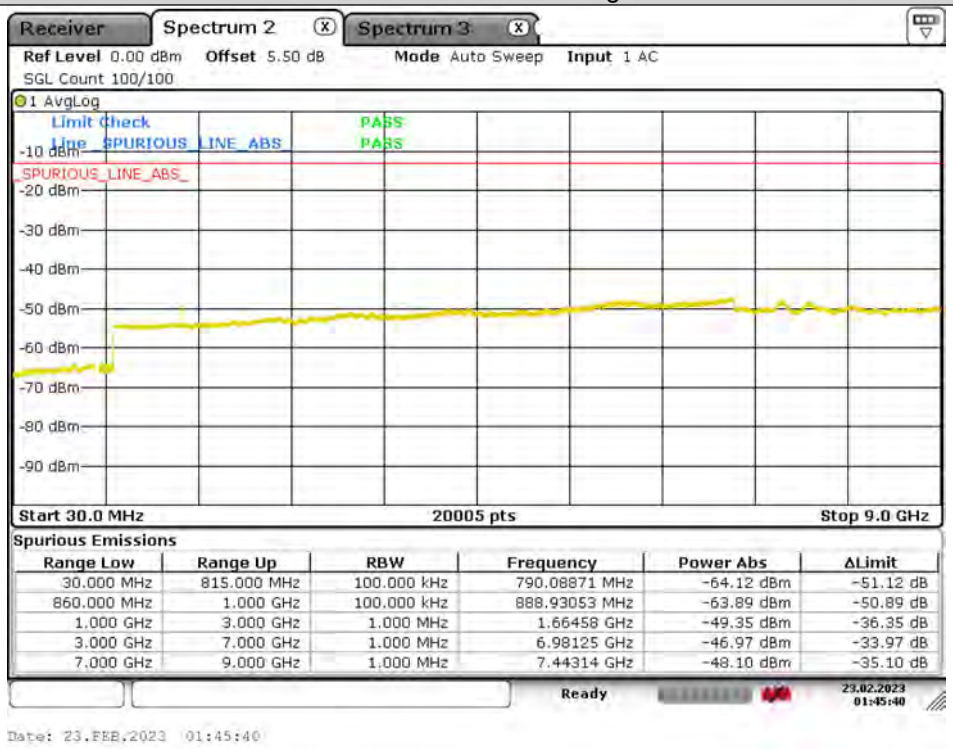
Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~9000MHz



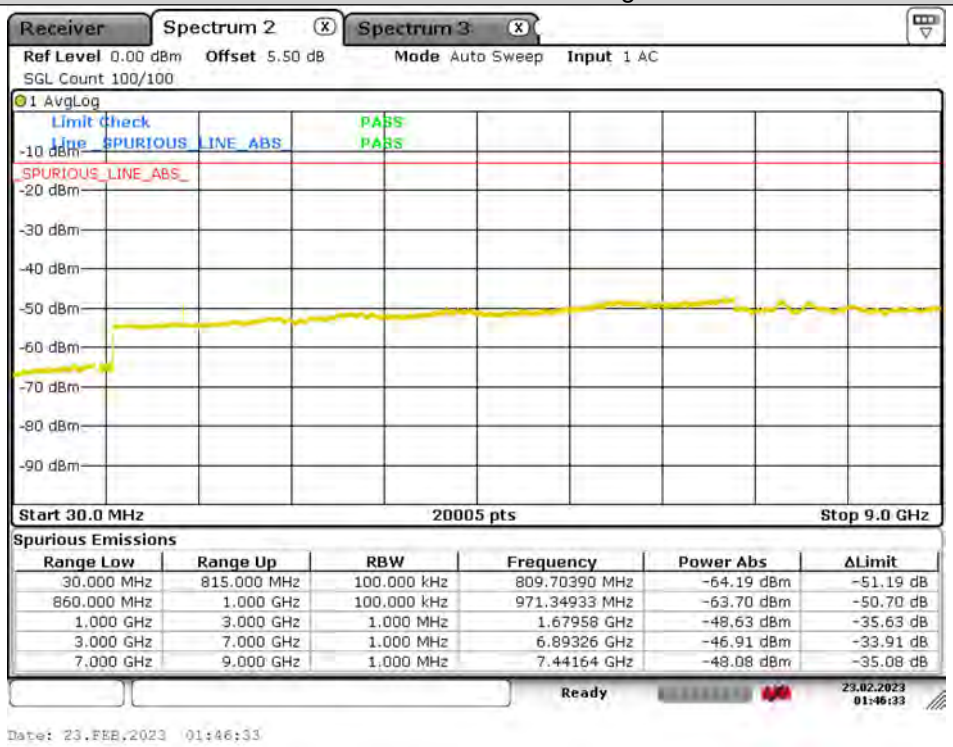
Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



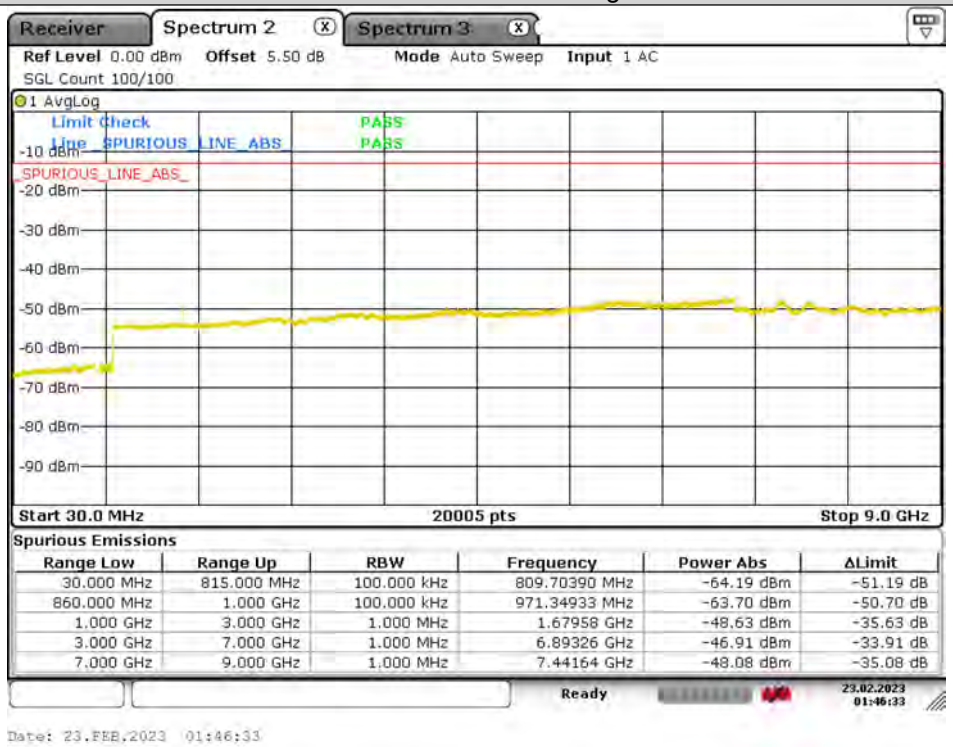
Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~9000MHz



Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~9000MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	5.23	0.006309	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-8.42	-0.010157	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	2.81	0.003390	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.98	-0.005953	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	9.15	0.010938	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	5.09	0.006085	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	3.27	0.003874	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-6.44	-0.007630	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	5.83	0.006908	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-12.64	-0.015247	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-13.65	-0.016466	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-12.87	-0.015525	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	11.87	0.014190	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	2.28	0.002726	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	12.91	0.015433	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.76	-0.000900	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.88	-0.001043	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	7.53	0.008922	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	9.01	0.010869	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	-3.61	-0.004355	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-5.71	-0.006888	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-11.52	-0.013772	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-4.55	-0.005439	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-4.29	-0.005129	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-14.92	-0.017678	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.25	0.000296	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-14.23	-0.016860	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	10.24	0.012352	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-3.81	-0.004596	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	14.5	0.017491	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-9.16	-0.011049	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.79	-0.002159	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-14.94	-0.018022	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	10.36	0.012497	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	14.32	0.017274	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-9.52	-0.011484	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	7.32	0.008751	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	4.28	0.005117	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-12.59	-0.015051	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-8.89	-0.010628	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-10.39	-0.012421	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.57	0.003072	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-8.13	-0.009719	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-4.99	-0.005965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	14.31	0.017107	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.11	-0.002500	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.44	0.000521	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	14.17	0.016789	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.98	-0.002346	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-14.37	-0.017026	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	11.73	0.013898	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	9.92	0.011754	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-5.97	-0.007073	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	6.5	0.007701	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-2.41	-0.002907	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	10.62	0.012811	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	0.86	0.001037	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-9.77	-0.011785	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	7.88	0.009505	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-13.8	-0.016647	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-11.34	-0.013679	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	6.48	0.007817	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-8.64	-0.010422	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-9.39	-0.011225	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	14.62	0.017478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	0.31	0.000371	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-2.7	-0.003228	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.88	0.001052	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	12.37	0.014788	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-10.24	-0.012241	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	9.88	0.011811	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-14.56	-0.017406	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-11.44	-0.013555	±2.5	PASS

Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-4.42	-0.005237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-2.17	-0.002571	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-2.86	-0.003389	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	7.12	0.008436	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	4.39	0.005201	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	6.65	0.007879	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-8.89	-0.010533	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	11.84	0.014028	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	18.84	0.022726	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	2.23	0.002690	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-2.96	-0.003571	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-11.96	-0.014427	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	8.92	0.010760	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-3.57	-0.004306	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	4.71	0.005682	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	2.41	0.002907	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	9.31	0.011230	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	1.16	0.001387	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-2.04	-0.002439	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-1.77	-0.002116	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-8.77	-0.010484	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	7.17	0.008571	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	9.92	0.011859	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-3.07	-0.003670	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-6.44	-0.007699	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	10.83	0.012947	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	3.46	0.004100	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-7.97	-0.009443	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-13.91	-0.016481	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	-14.78	-0.017512	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	11.35	0.013448	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	10.01	0.011860	±2.5	PASS

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