

FCC Test Report

FCC ID: 2BNW9-RP01

Applicant: Shenzhen Rawpic Photoelectric Technology Co., Ltd

Address: Room 401, Building 18, Longwangmiao Industrial Zone, Baishixia East District, Fuyong Street, Bao an District, Shenzhen City, Guangdong Province, China

Manufacturer: Shenzhen Rawpic Photoelectric Technology Co., Ltd

Address: Room 401, Building 18, Longwangmiao Industrial Zone, Baishixia East District, Fuyong Street, Bao an District, Shenzhen City, Guangdong Province, China

EUT: 4G Sentinel Monitoring

Trade Mark: /

Model Number: PR01
PR02, PR03, PR19, PR05, PR06, PR07, PR08, PR09, PR10, PR11, PR12, PR13, PR20, PR15, PR16, PR17, PR18, DC22, DC23

Date of Receipt: May. 23, 2025

Test Date: May. 23, 2025 - Jun. 09, 2025

Date of Report: Jun. 09, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

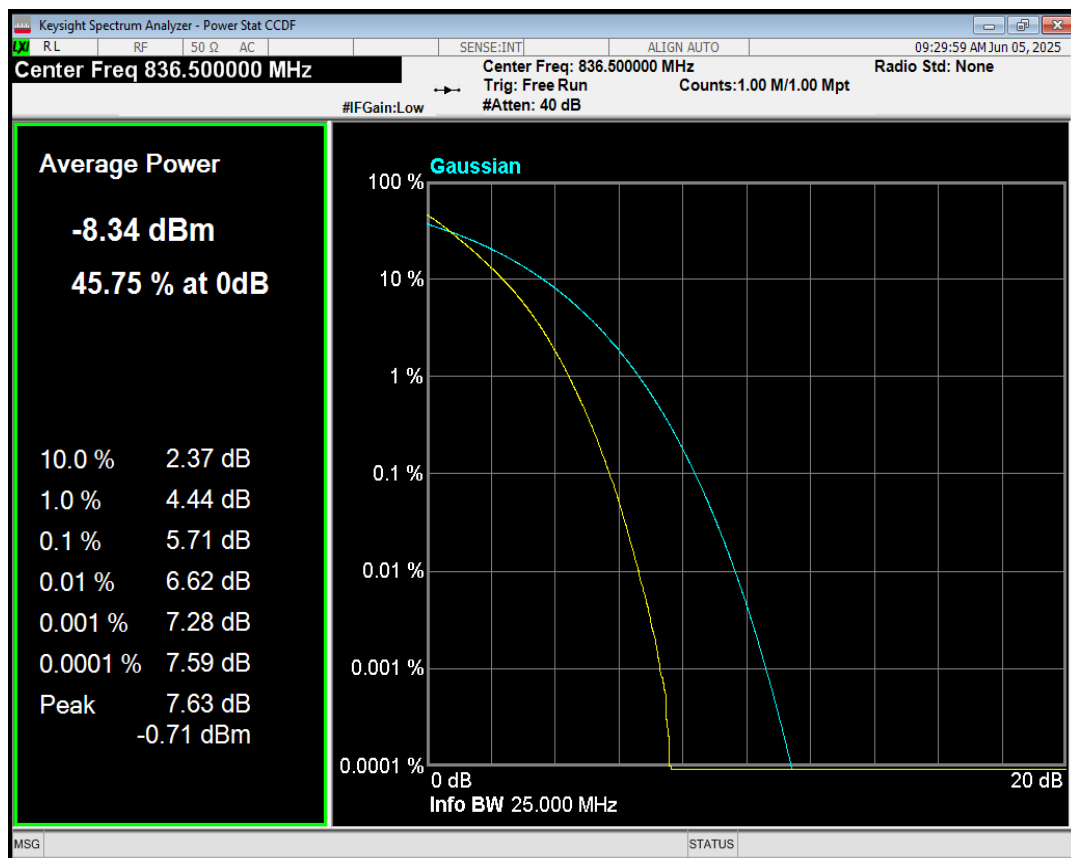
Applicable Standards: FCC Part 2 Subpart J,
Part 22 Subpart H,
Part 24 Subpart E,
Part 27
FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
ANSI C63.26:2015, ANSI/TIA-603-E-2016

Test Result: Pass

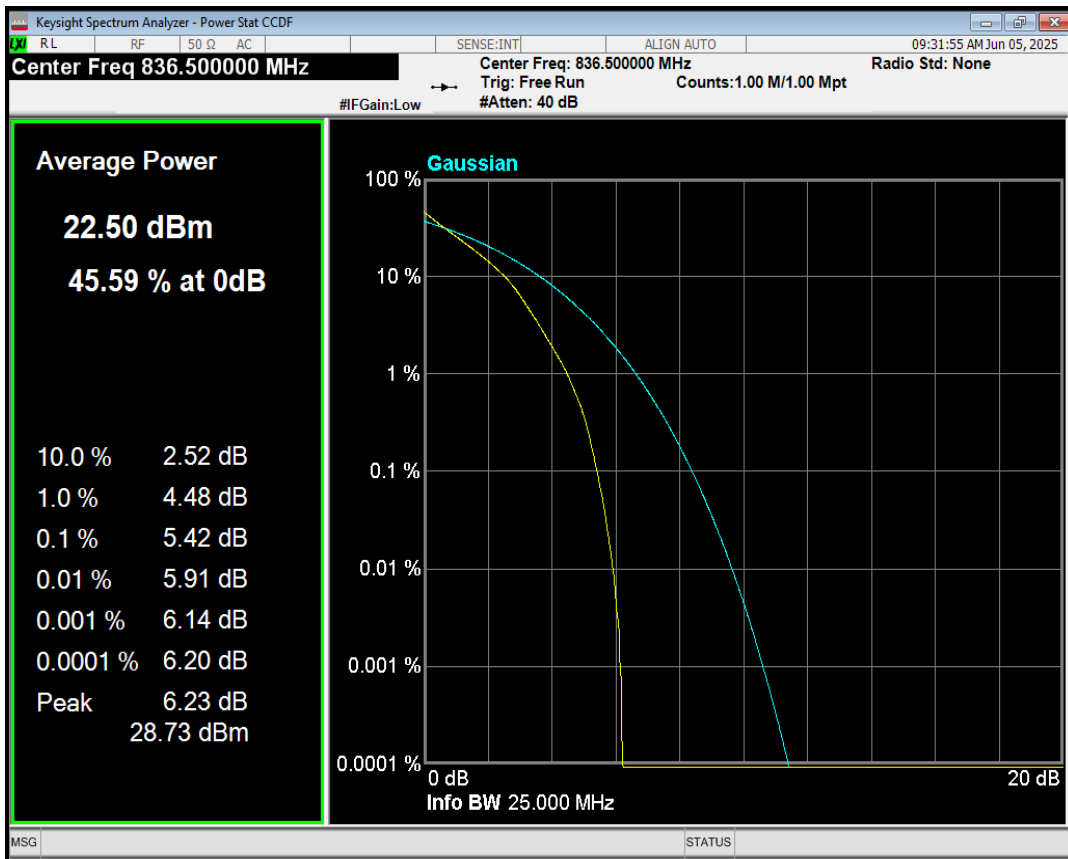
03 Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band5	1.4	20525	6	#0	QPSK	5.71	13	PASS
Band5	3	20525	15	#0	QPSK	5.42	13	PASS
Band5	5	20525	25	#0	QPSK	5.54	13	PASS
Band5	10	20525	50	#0	QPSK	5.56	13	PASS
Band5	1.4	20525	6	#0	QAM16	6.14	13	PASS
Band5	3	20525	15	#0	QAM16	6.30	13	PASS
Band5	5	20525	25	#0	QAM16	6.26	13	PASS
Band5	10	20525	1	#0	QAM16	5.65	13	PASS
Band7	5	21100	25	#0	QPSK	4.28	13	PASS
Band7	10	21100	50	#0	QPSK	4.35	13	PASS
Band7	15	21100	75	#0	QPSK	4.75	13	PASS
Band7	20	21100	100	#0	QPSK	4.95	13	PASS
Band7	5	21100	25	#0	QAM16	5.18	13	PASS
Band7	10	21100	1	#0	QAM16	3.85	13	PASS
Band7	15	21100	1	#0	QAM16	3.90	13	PASS
Band7	20	21100	1	#0	QAM16	3.89	13	PASS

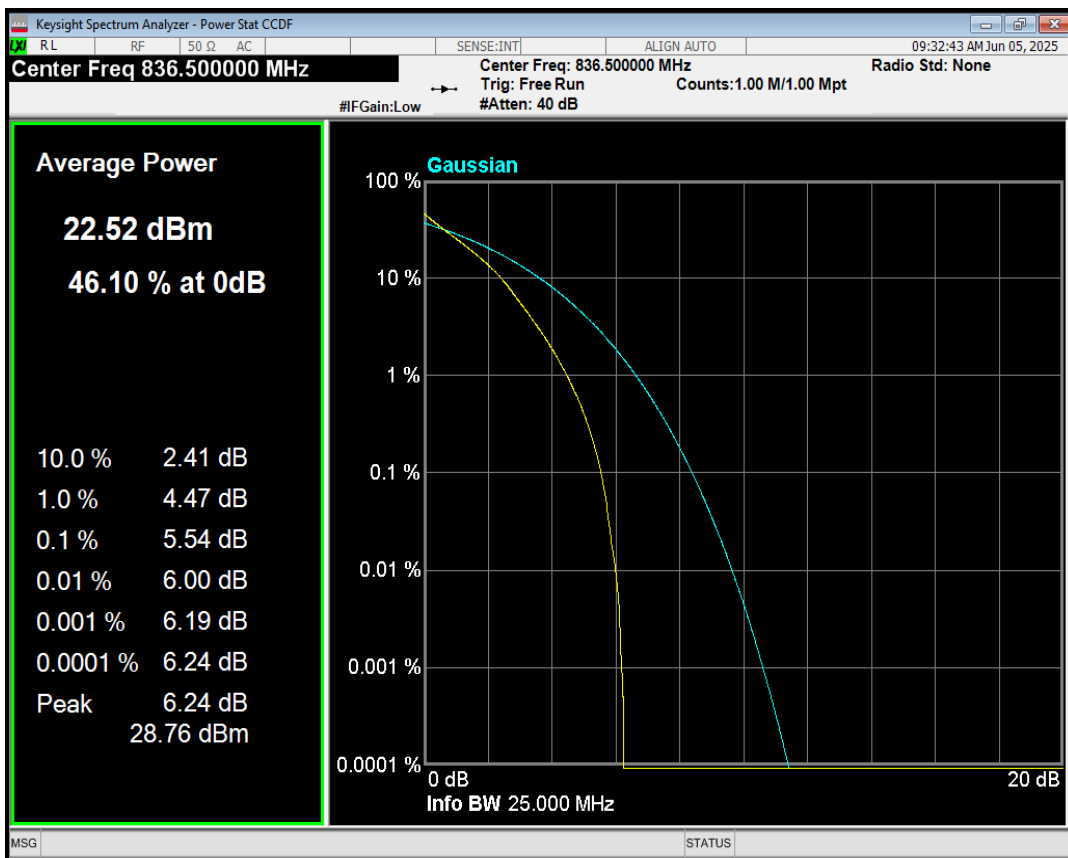
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0



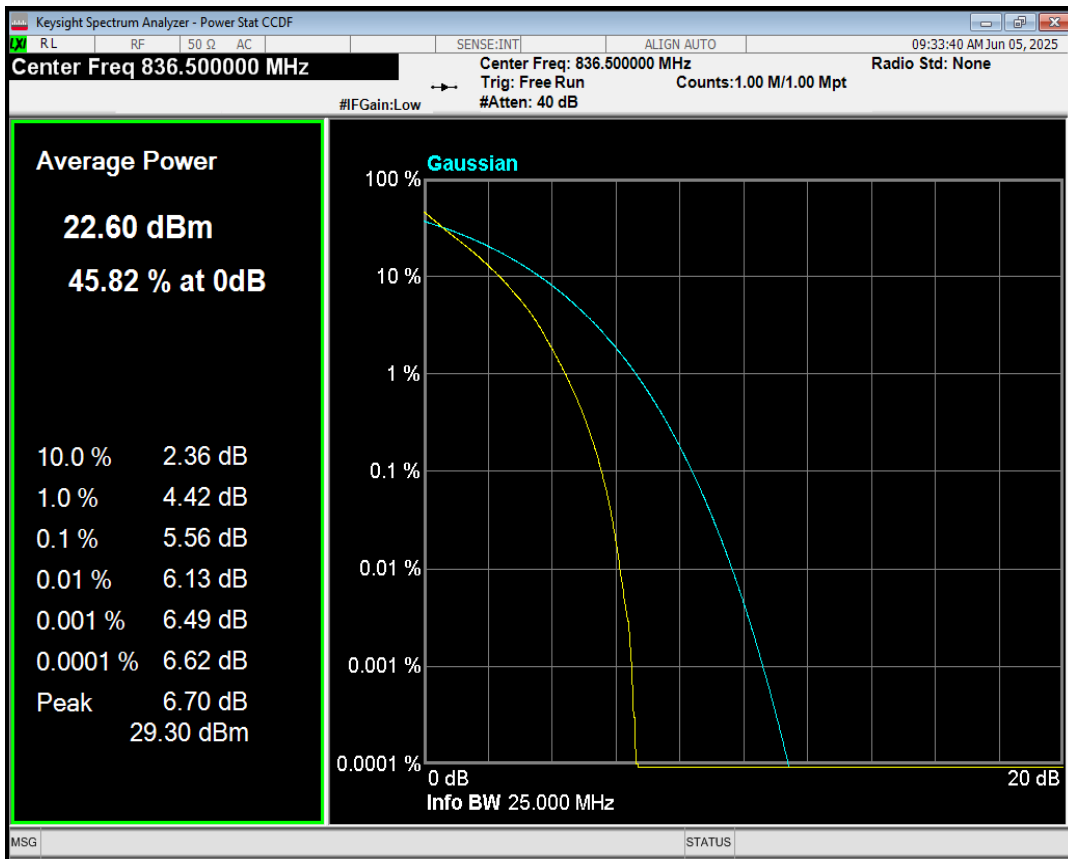
Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0



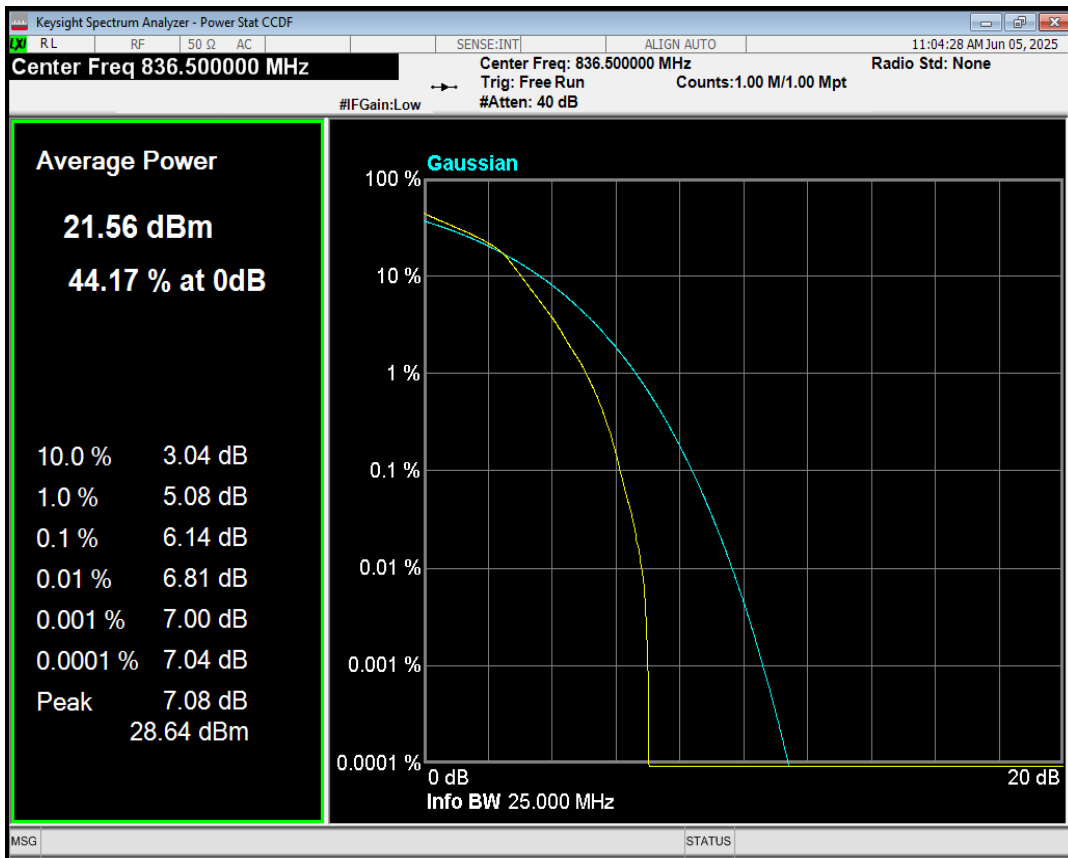
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0



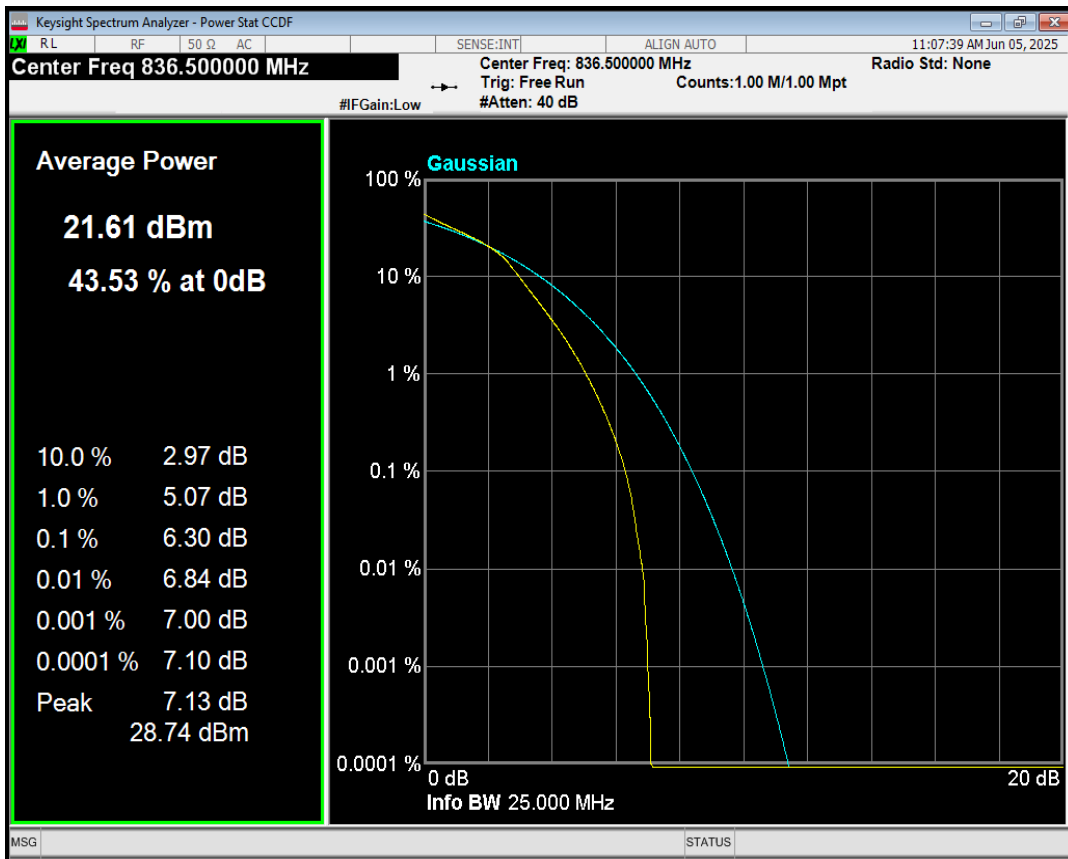
Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0



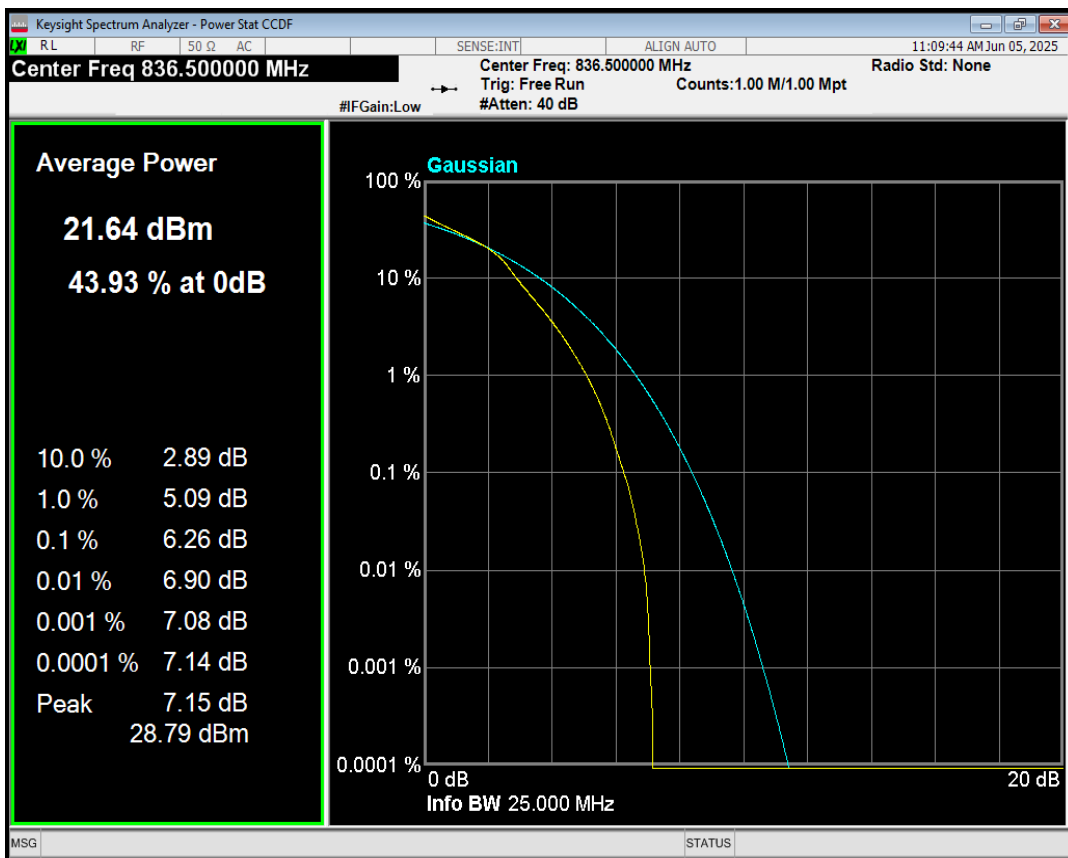
Band5 QAM16 BW=1.4MHz Channel=20525 RB Size=6 Position=#0



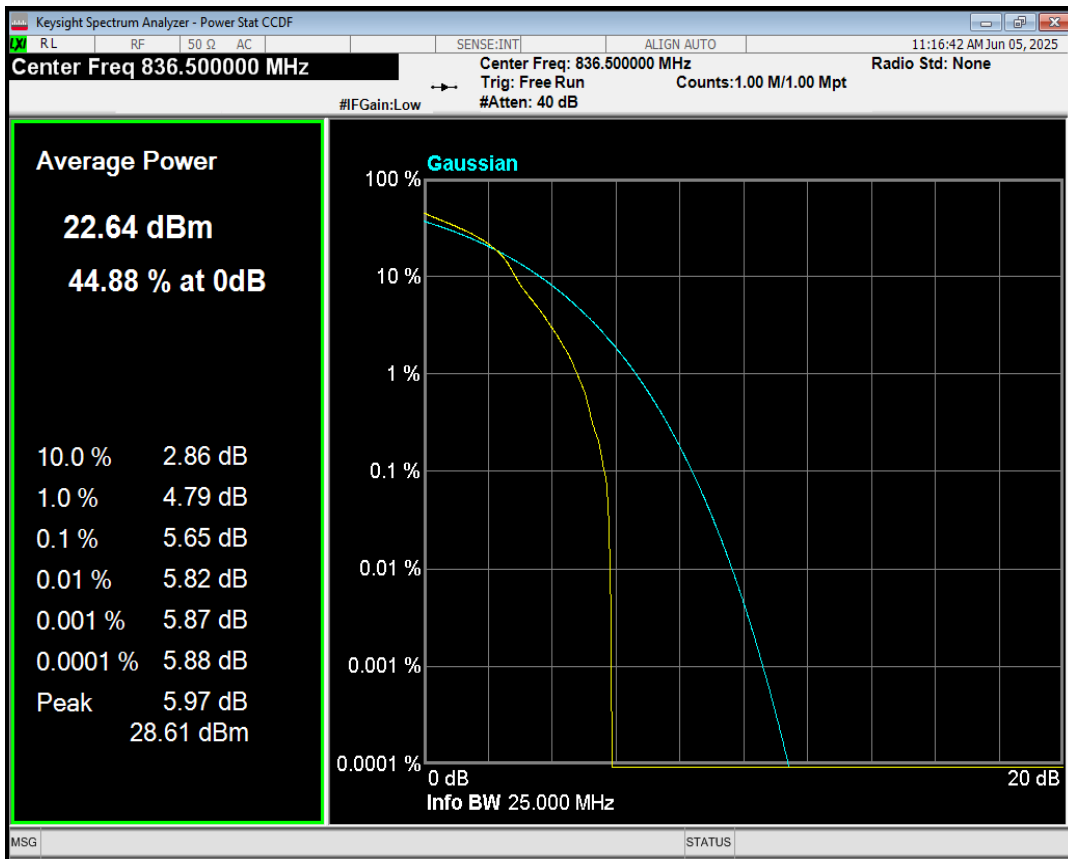
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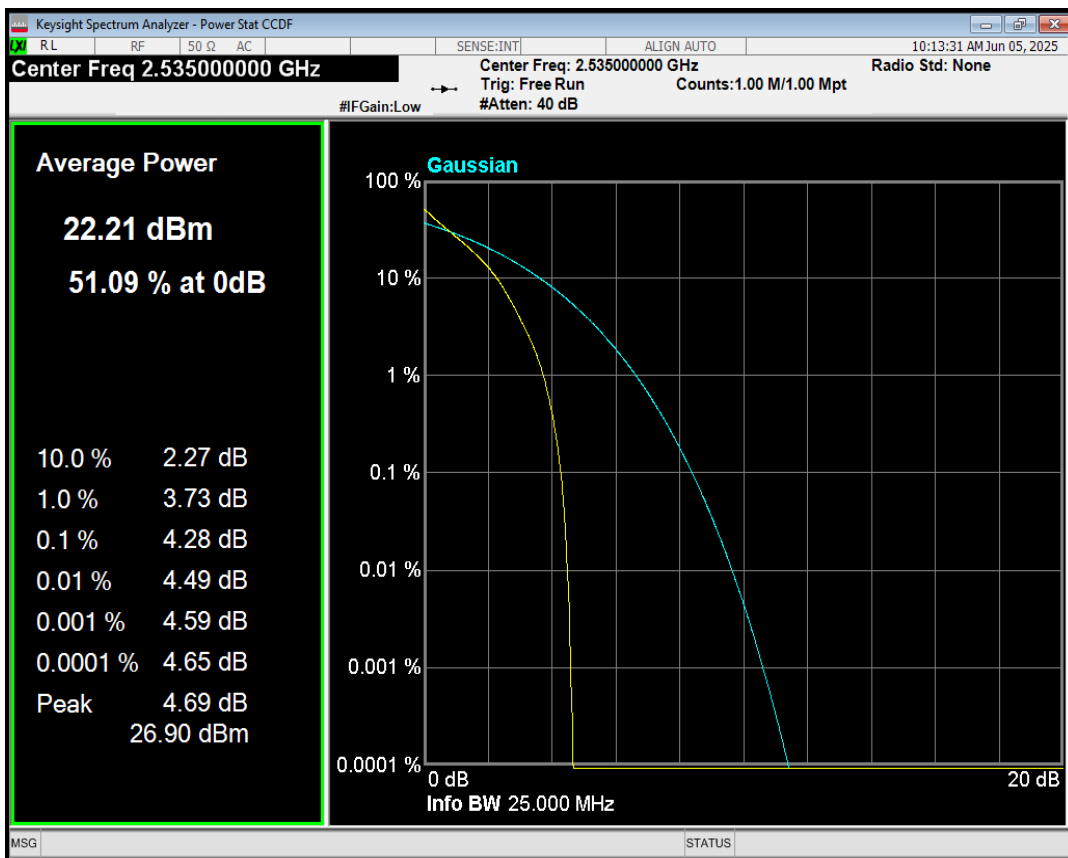
Band5 QAM16 BW=5MHz Channel=20525 RB Size=25 Position=#0



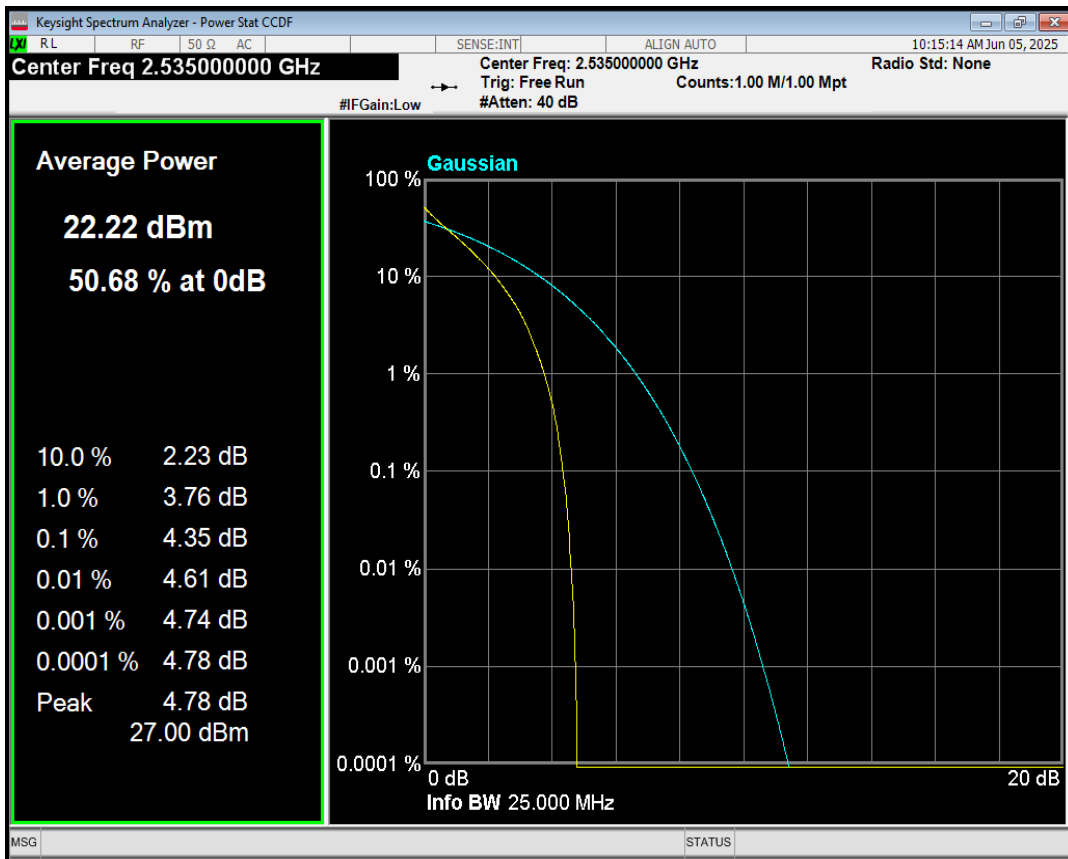
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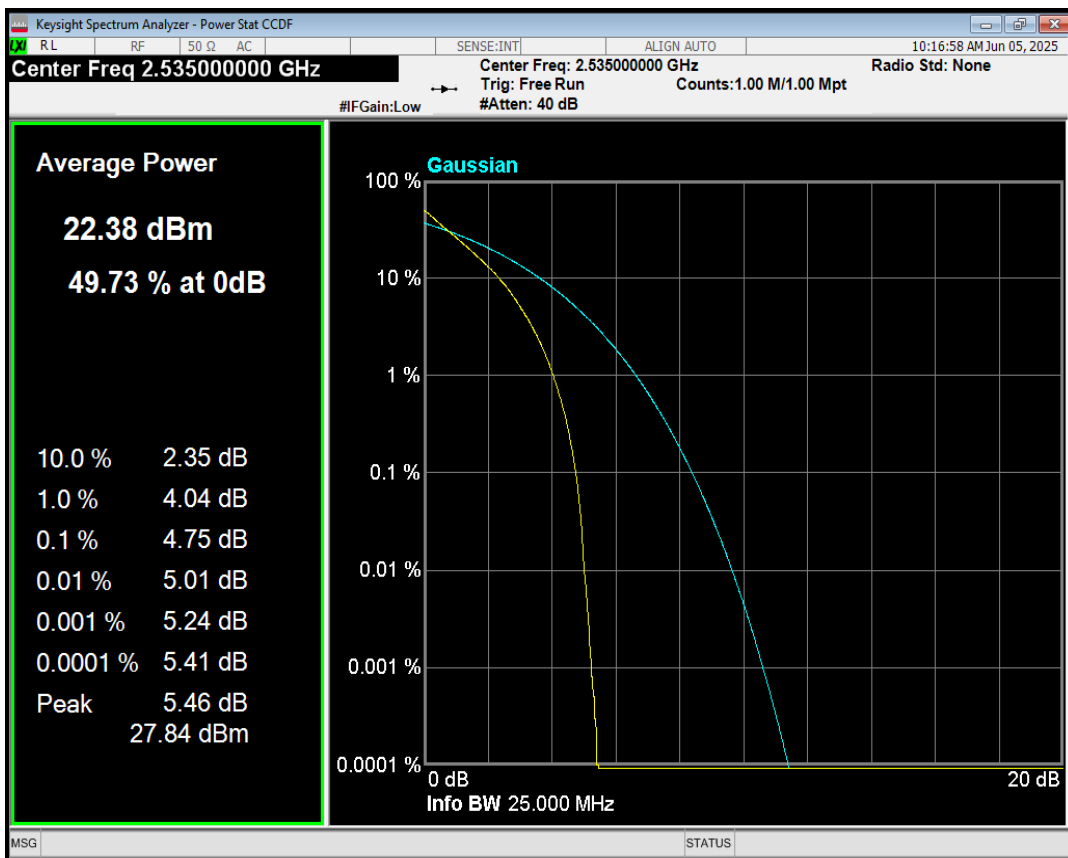
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



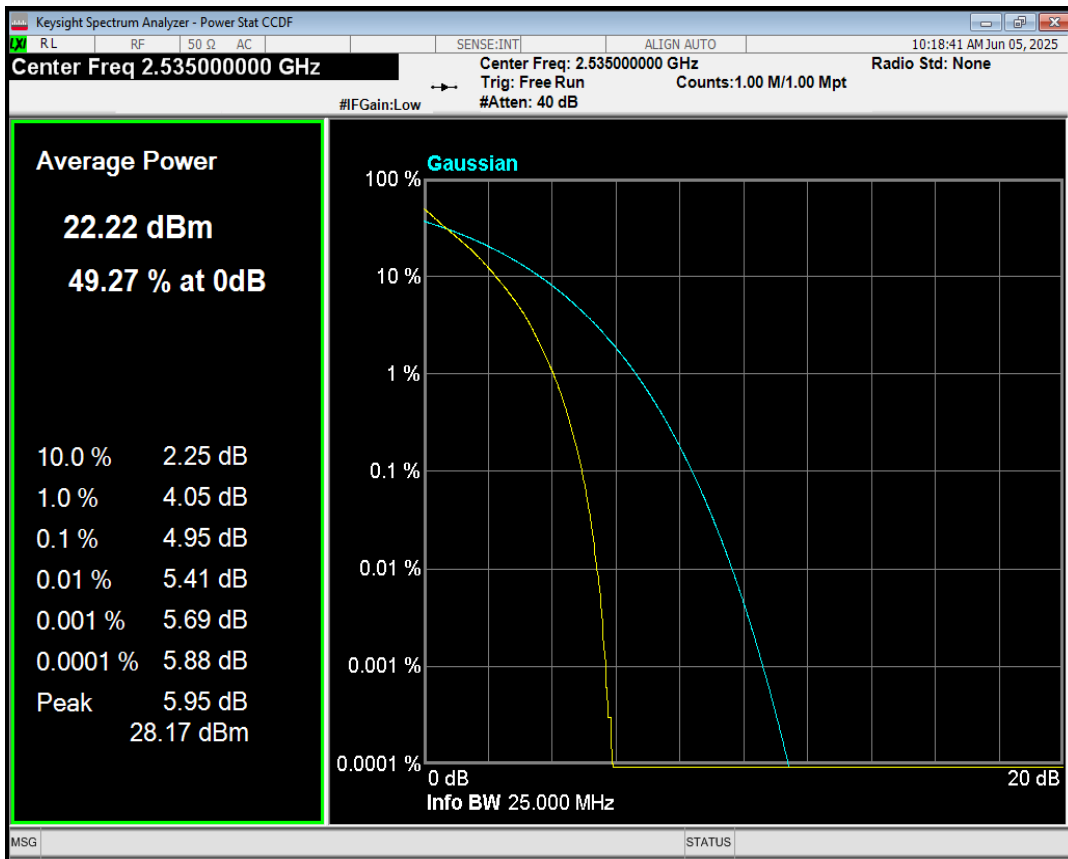
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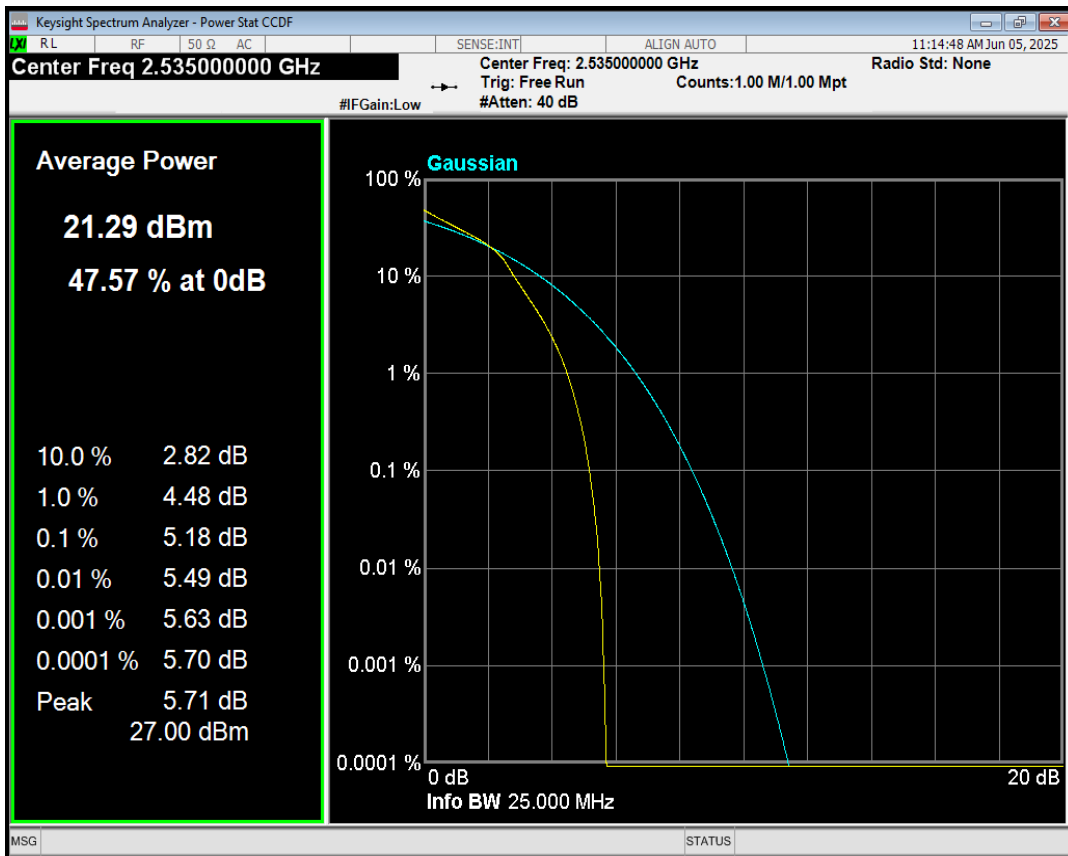
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



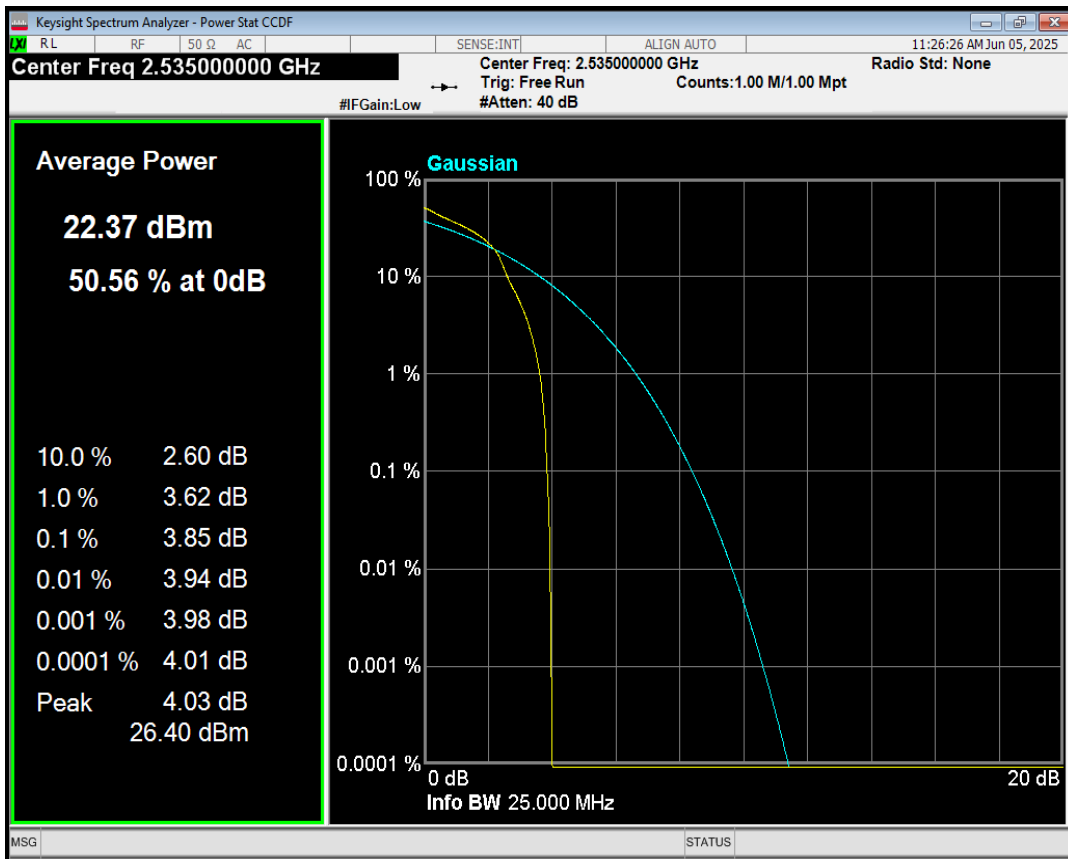
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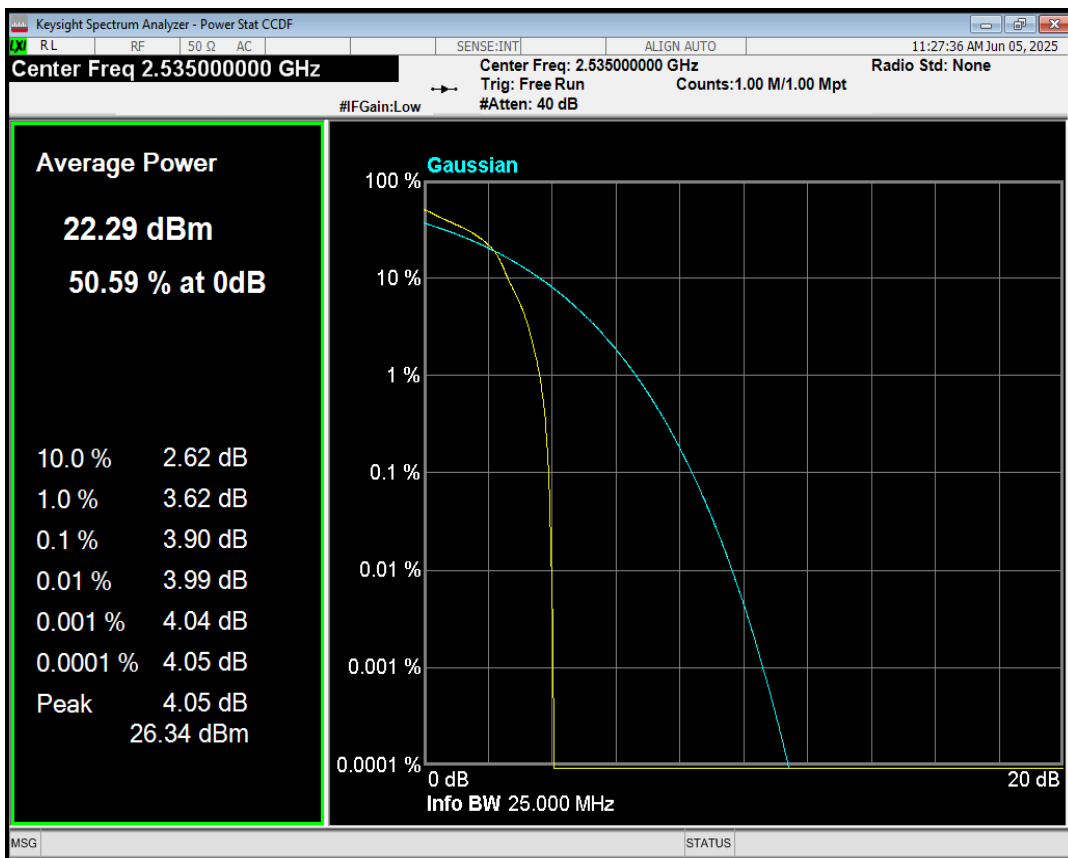
Band7 QAM16 BW=5MHz Channel=21100 RB Size=25 Position=#0



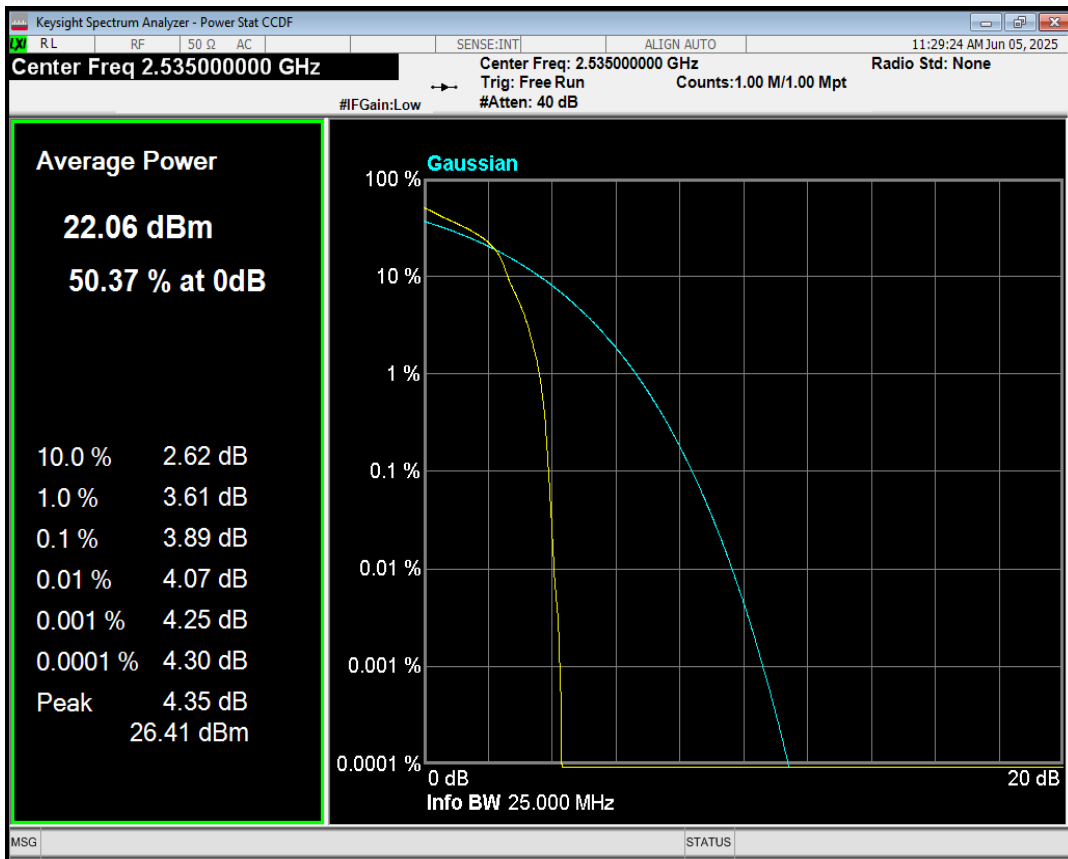
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Band7 QAM16 BW=15MHz Channel=21100 RB Size=1 Position=#0



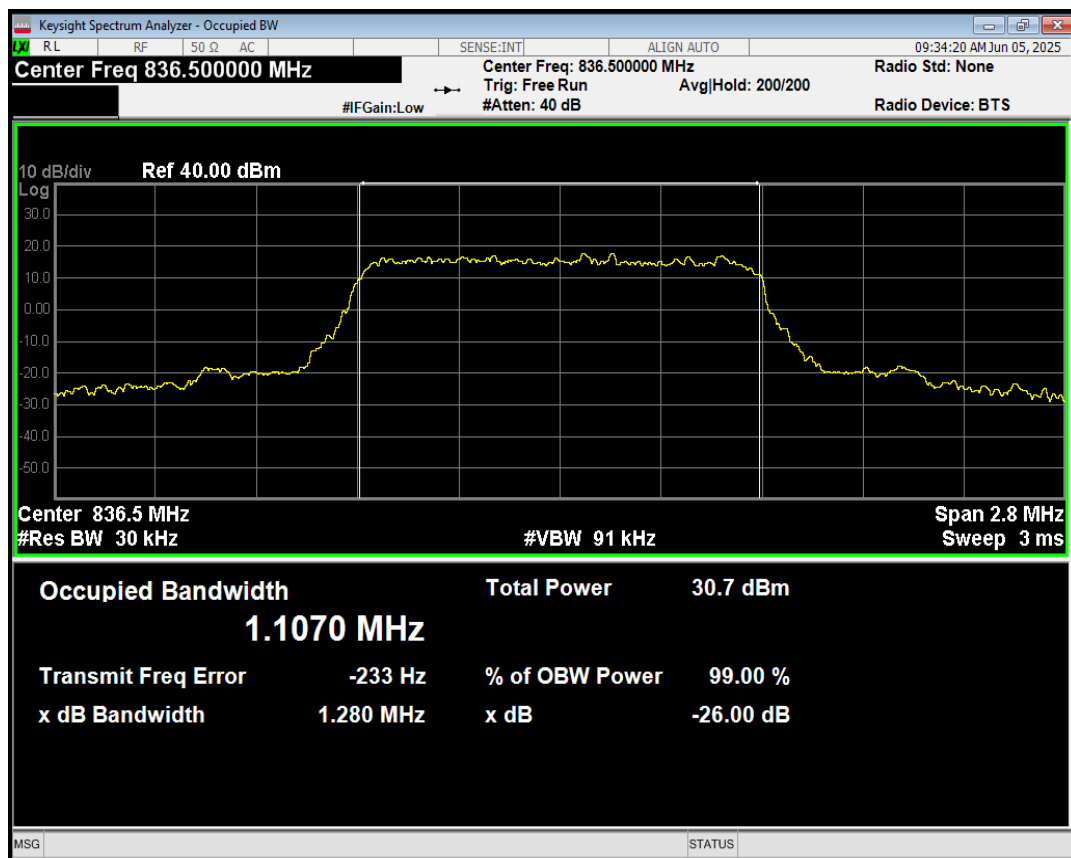
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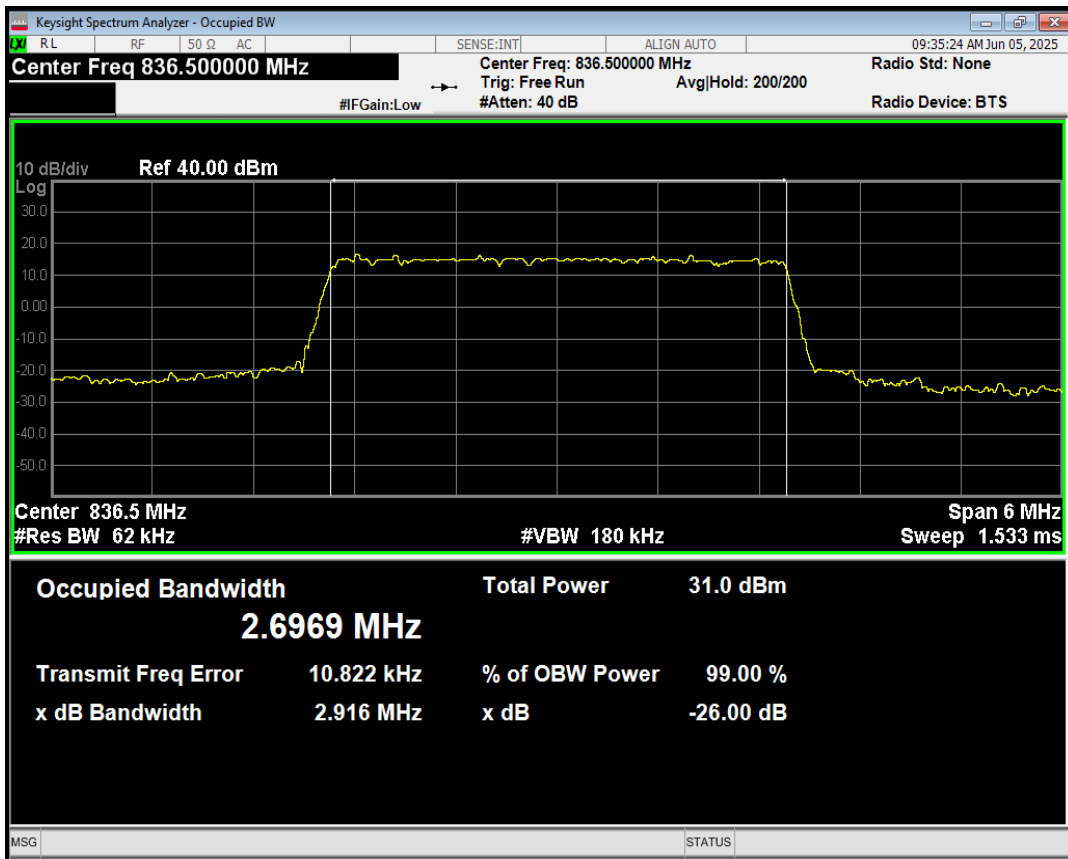
04 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20525	6	#0	QPSK	1.107	1.280	PASS
Band5	3	20525	15	#0	QPSK	2.697	2.916	PASS
Band5	5	20525	25	#0	QPSK	4.504	4.959	PASS
Band5	10	20525	50	#0	QPSK	8.986	9.615	PASS
Band5	1.4	20525	6	#0	QAM16	1.100	1.289	PASS
Band5	3	20525	15	#0	QAM16	2.687	2.953	PASS
Band5	5	20525	25	#0	QAM16	4.504	4.874	PASS
Band5	10	20525	1	#0	QAM16	1.092	1.587	PASS
Band7	5	21100	25	#0	QPSK	4.494	4.895	PASS
Band7	10	21100	50	#0	QPSK	9.016	9.620	PASS
Band7	15	21100	75	#0	QPSK	13.487	14.599	PASS
Band7	20	21100	100	#0	QPSK	18.012	19.333	PASS
Band7	5	21100	25	#0	QAM16	4.506	4.918	PASS
Band7	10	21100	1	#0	QAM16	1.205	1.686	PASS
Band7	15	21100	1	#0	QAM16	1.231	1.692	PASS
Band7	20	21100	1	#0	QAM16	1.879	2.619	PASS

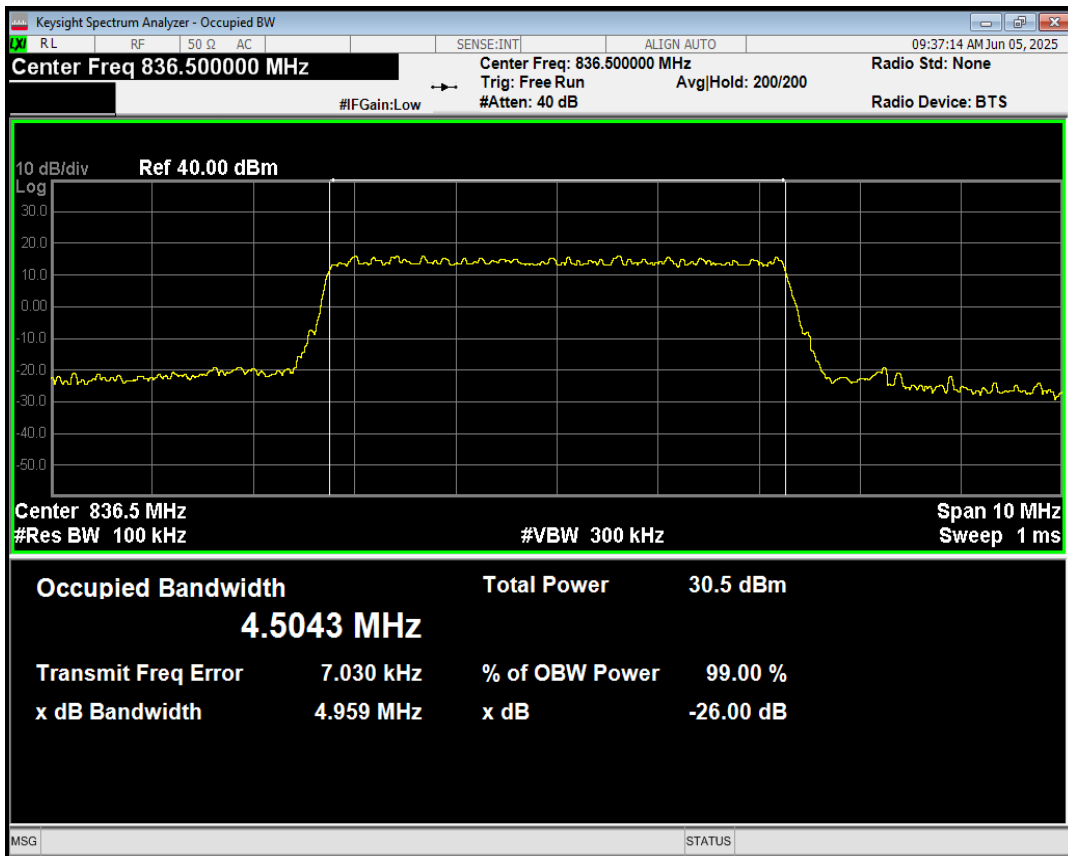
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0



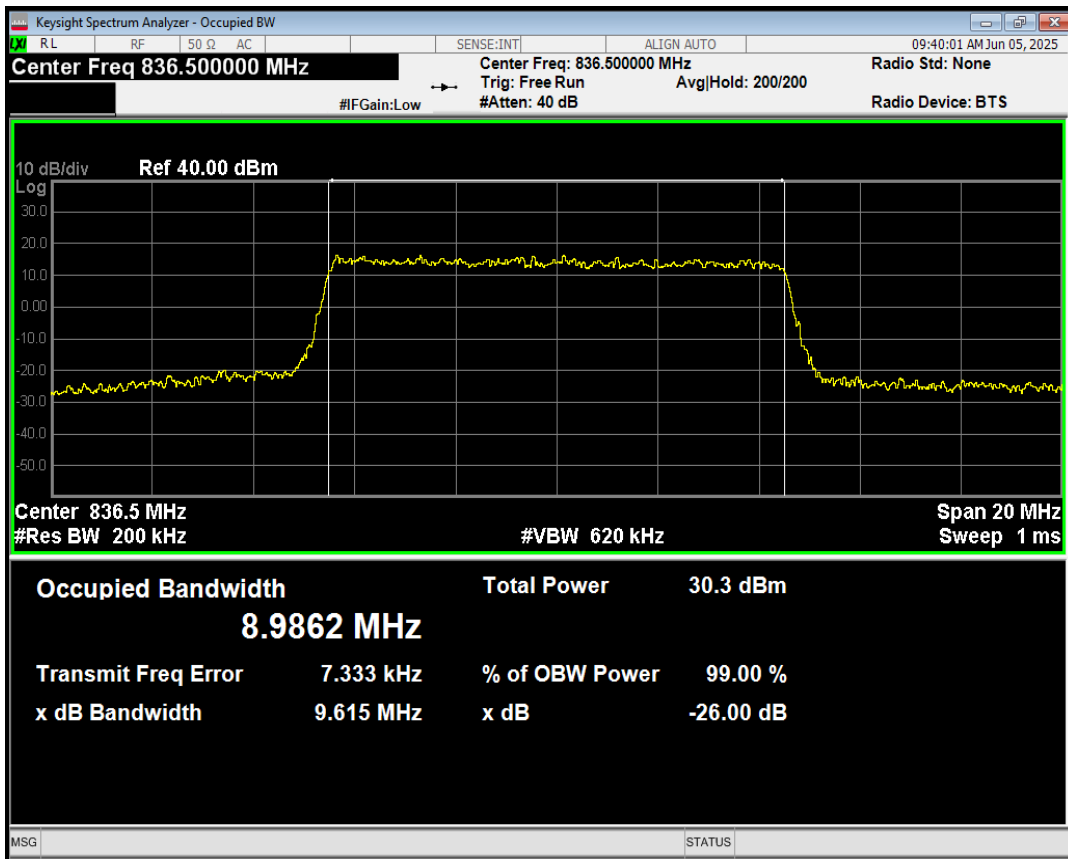
Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0



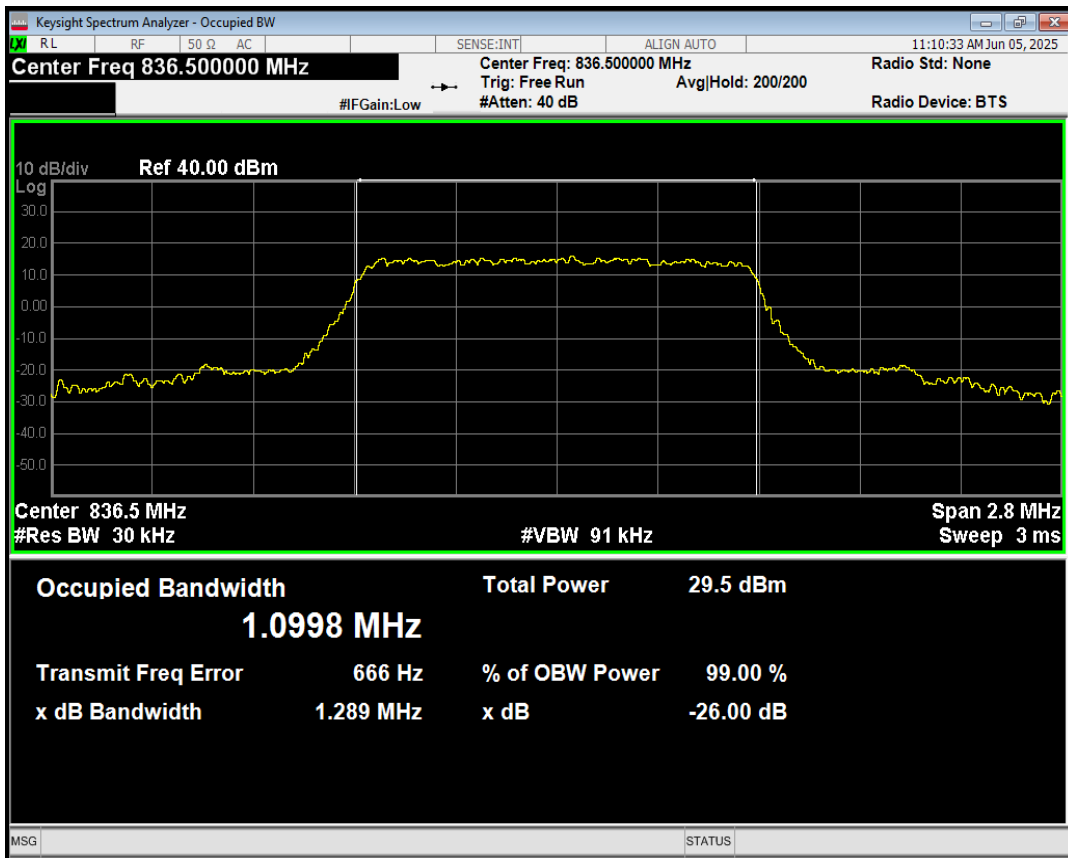
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0



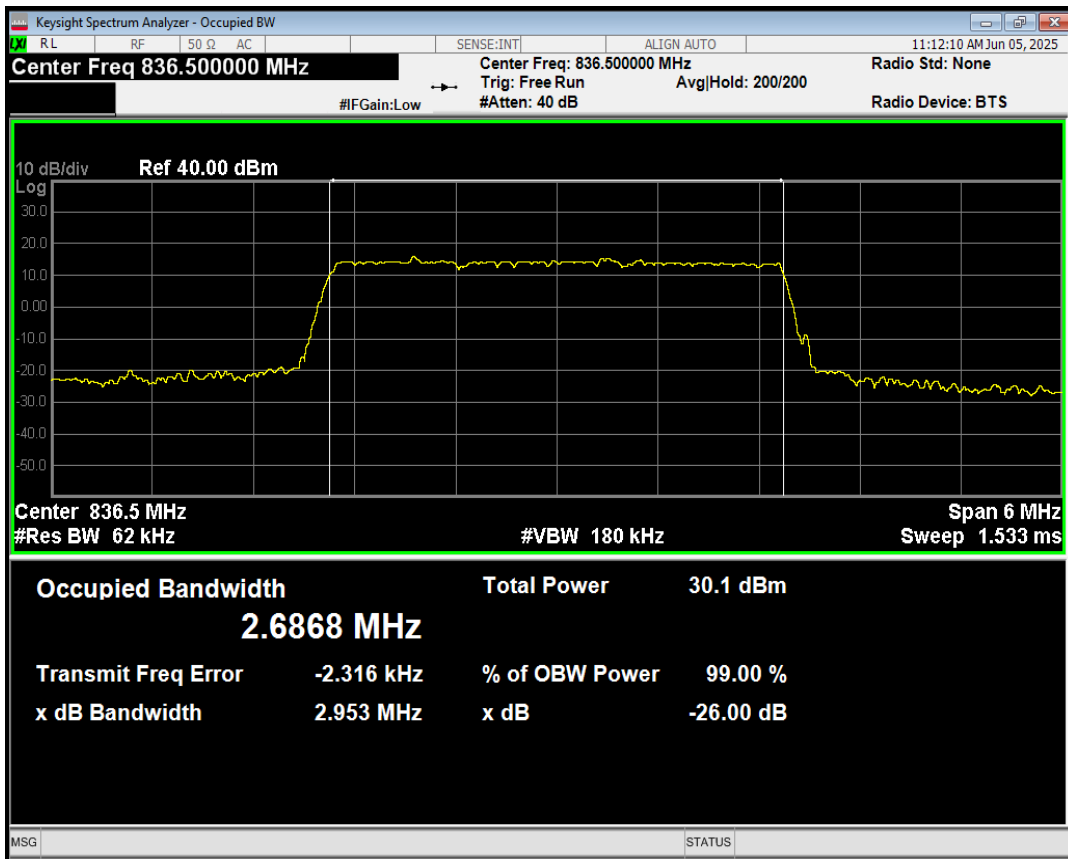
Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0



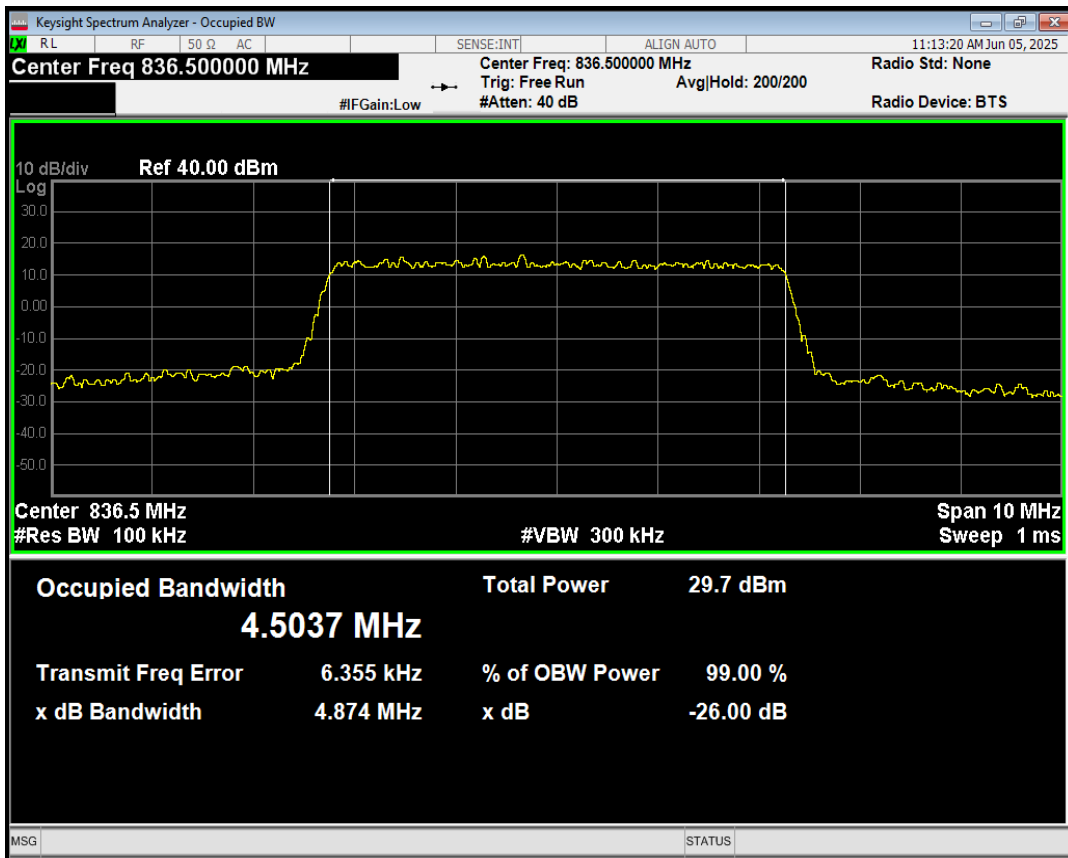
Band5 QAM16 BW=1.4MHz Channel=20525 RB Size=6 Position=#0



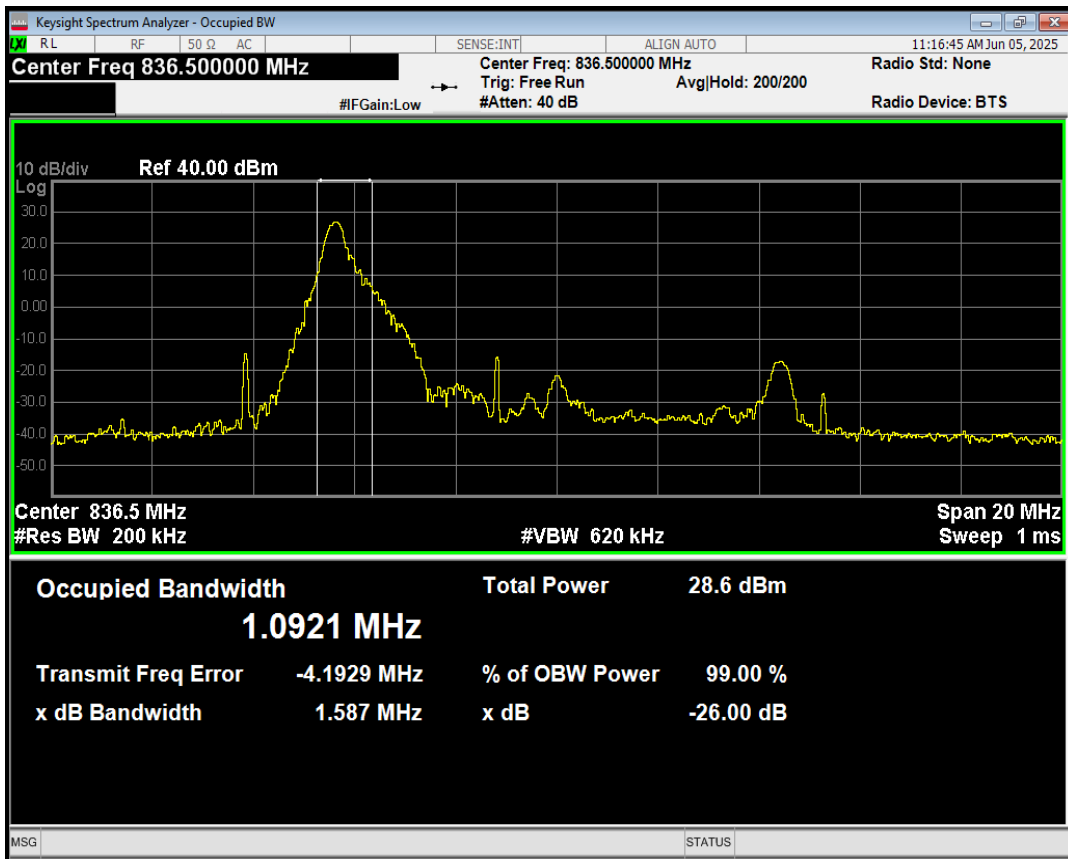
Band5 QAM16 BW=3MHz Channel=20525 RB Size=15 Position=#0



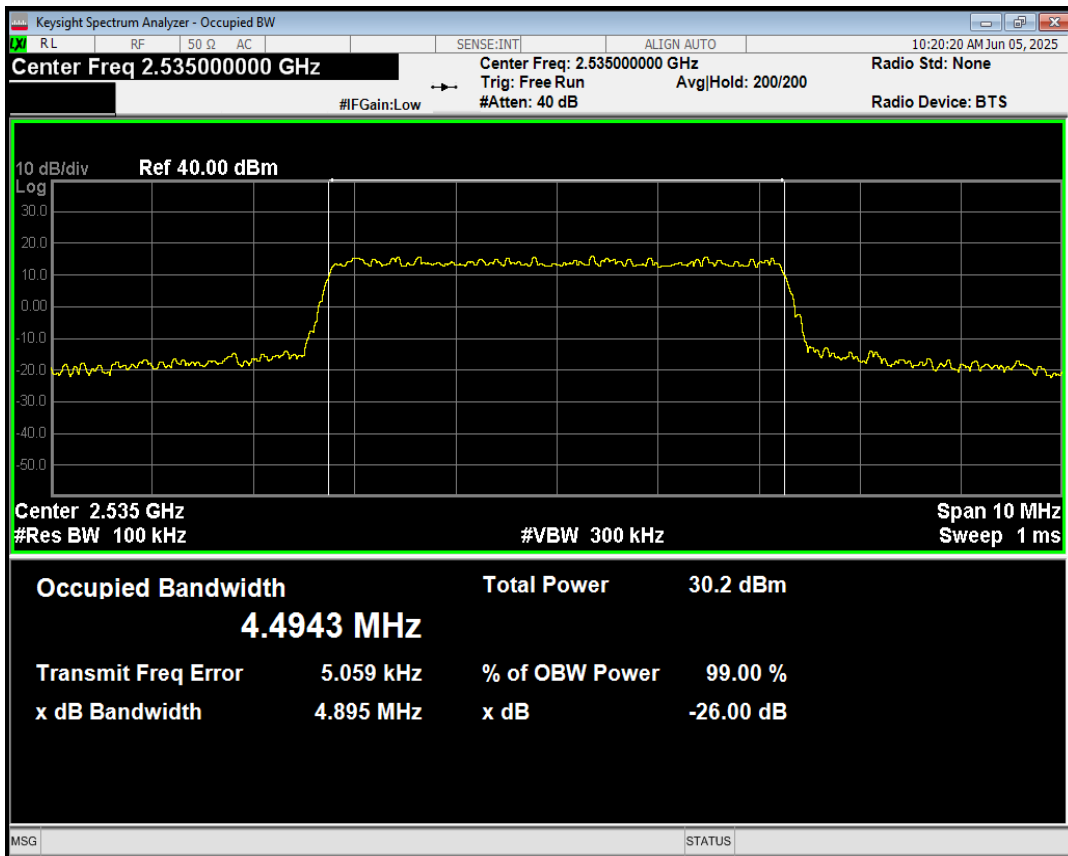
Band5 QAM16 BW=5MHz Channel=20525 RB Size=25 Position=#0



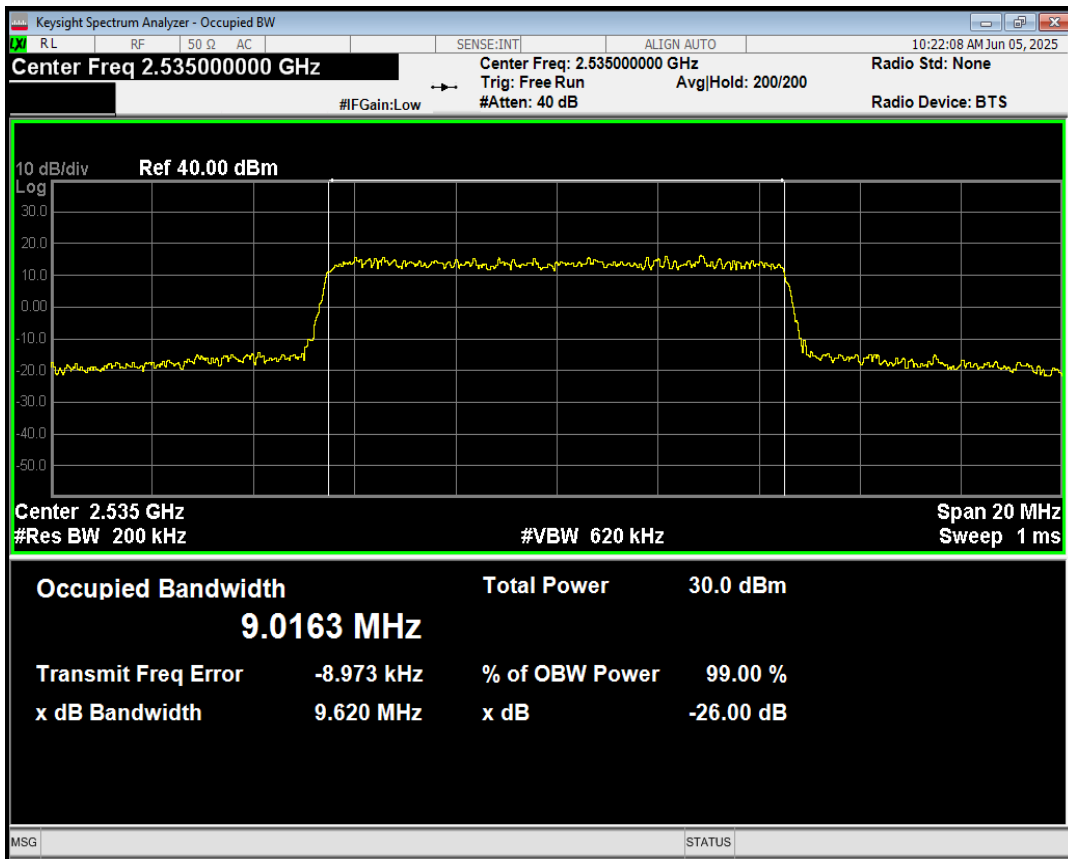
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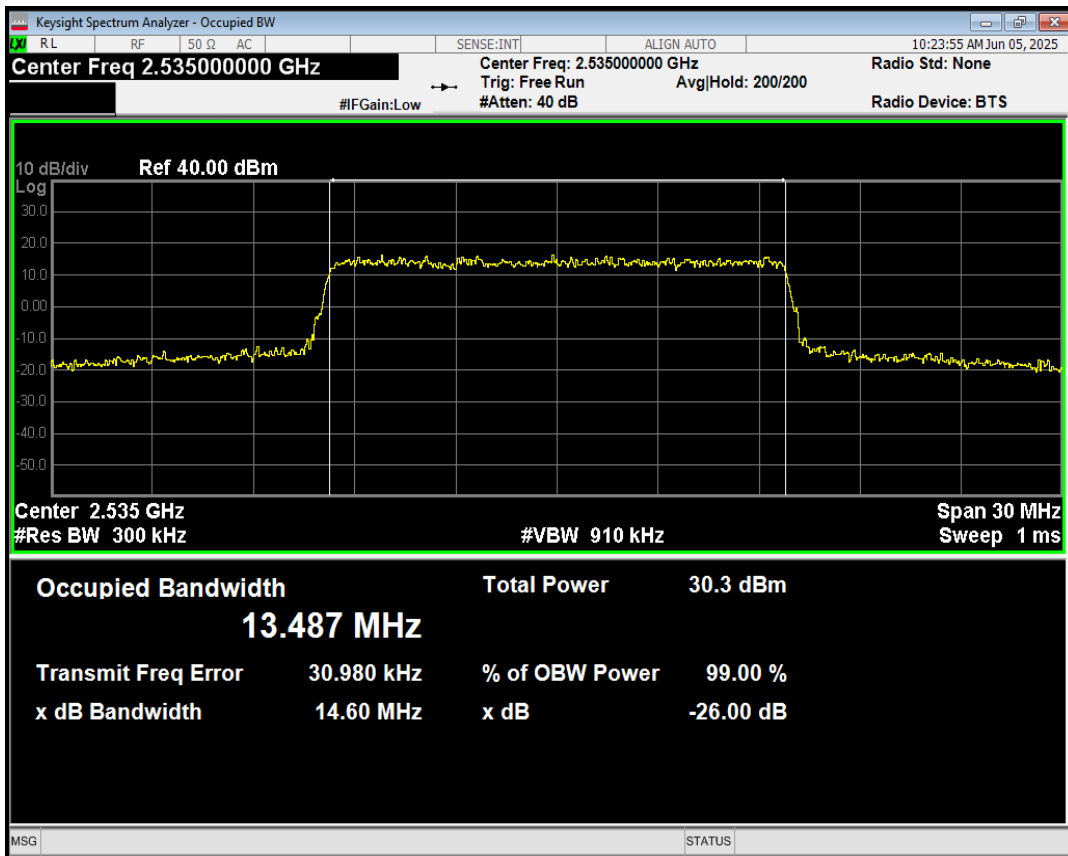
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



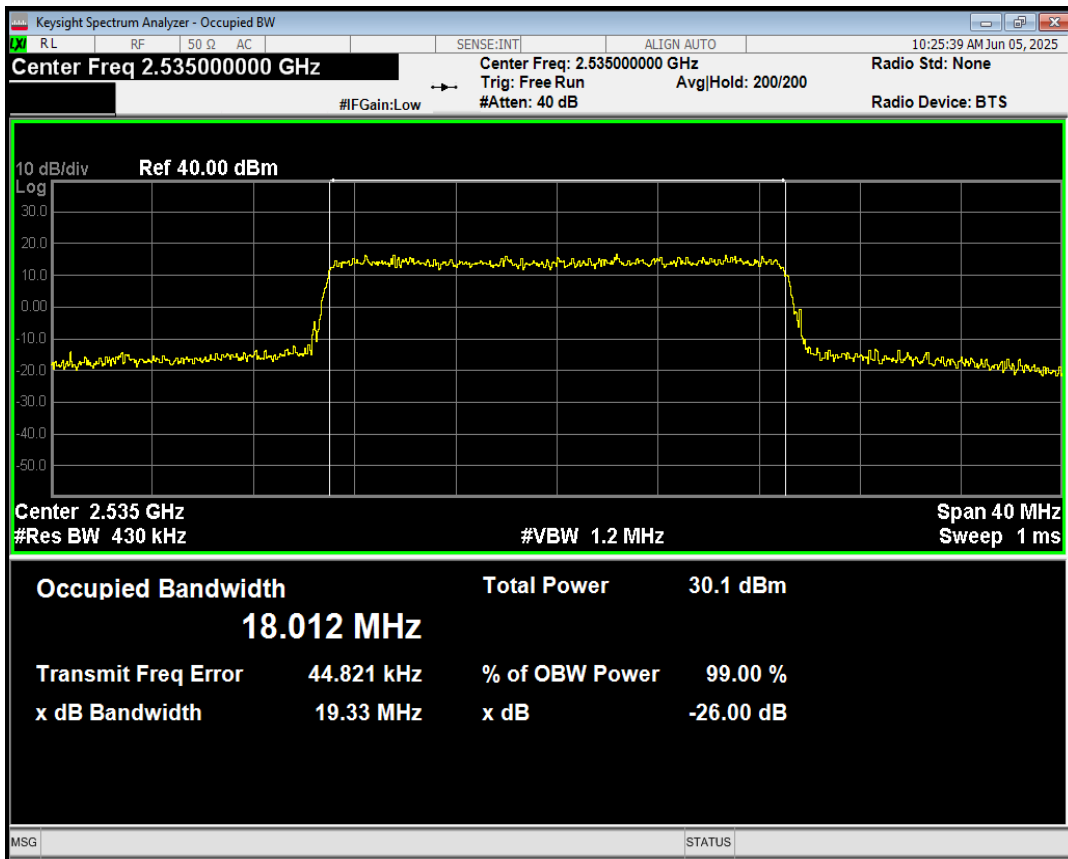
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



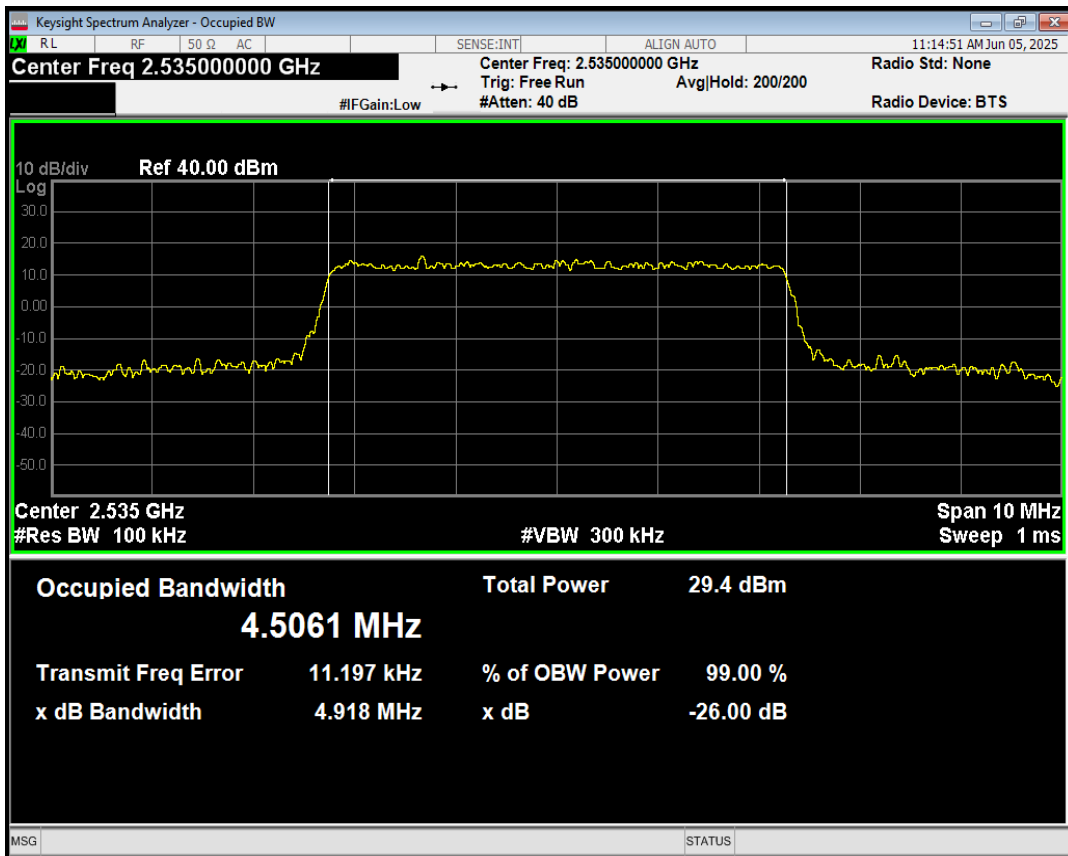
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



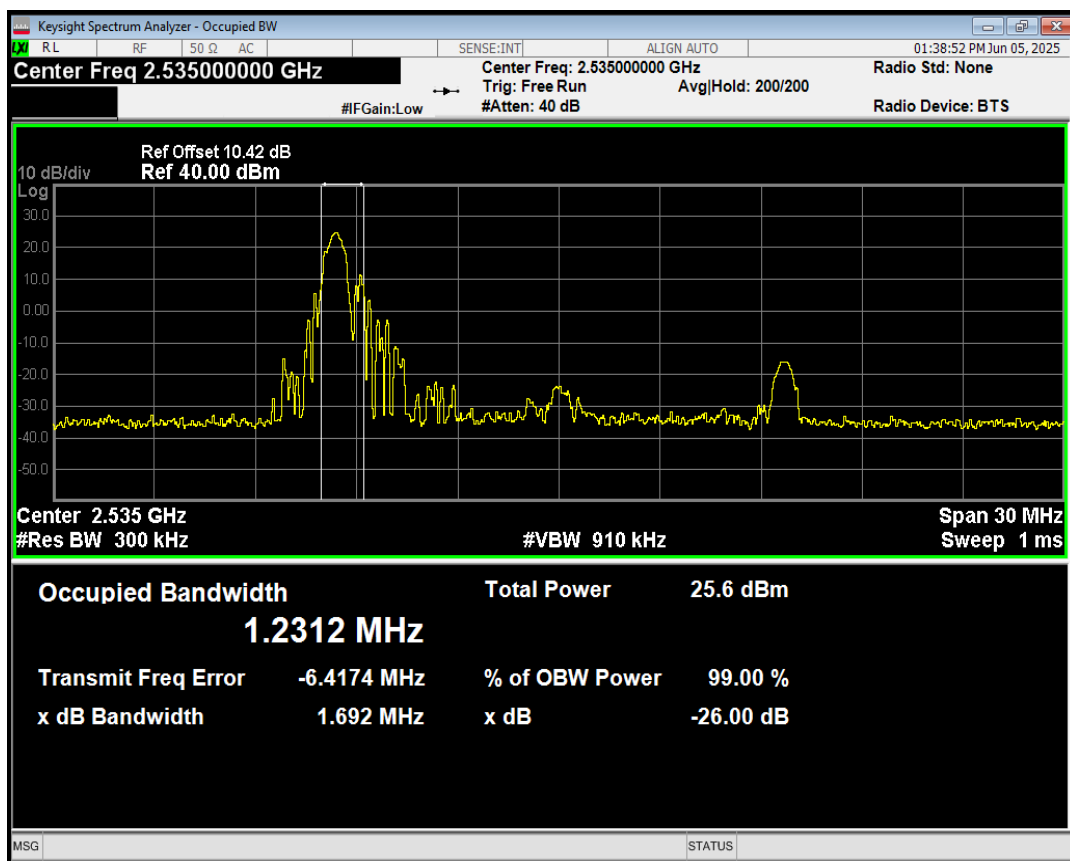
Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



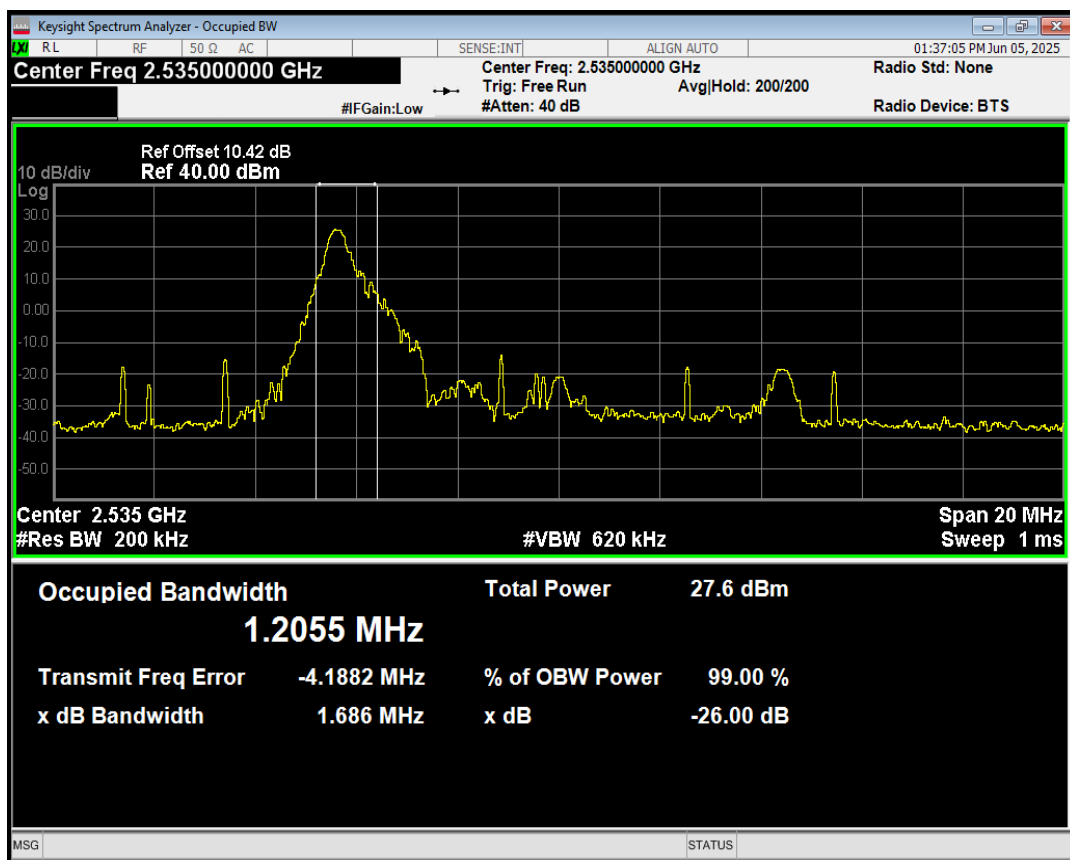
Band7 QAM16 BW=5MHz Channel=21100 RB Size=25 Position=#0



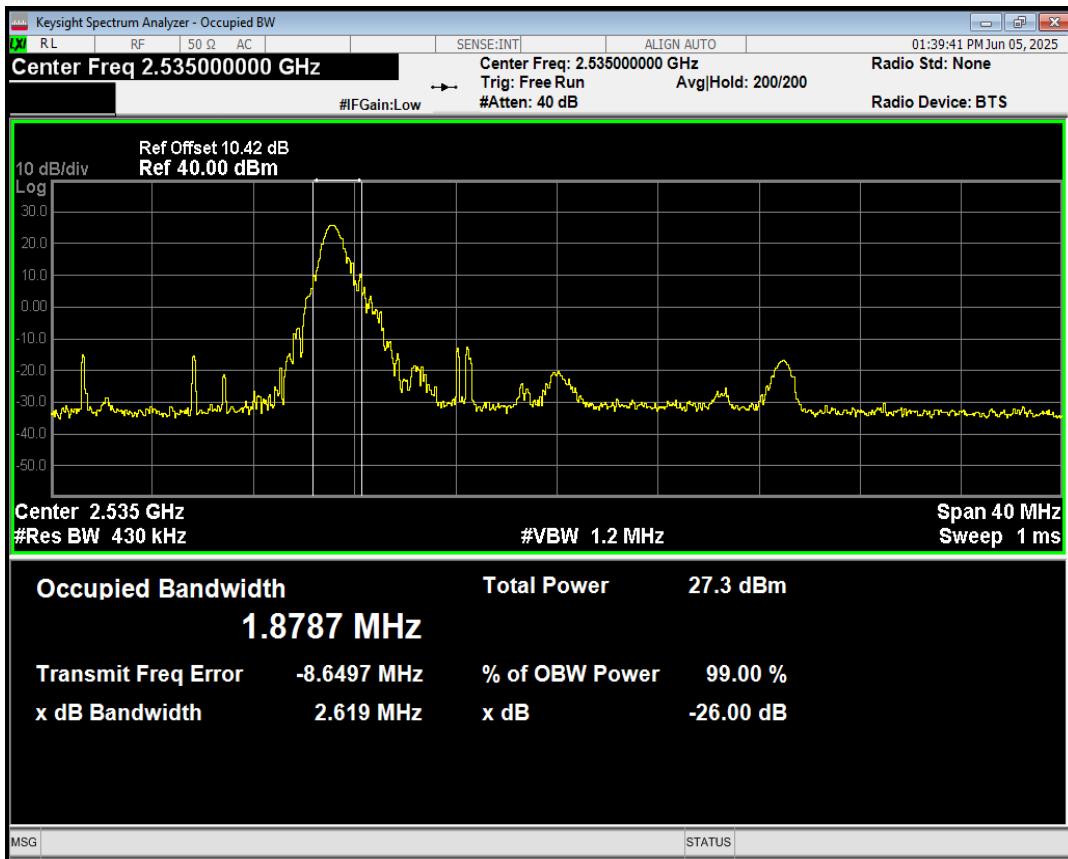
Band7 QAM16 BW=15MHz Channel=21100 RB Size=1 Position=#0



Band7 QAM16 BW=10MHz Channel=21100 RB Size=1 Position=#0



Band7 QAM16 BW=20MHz Channel=21100 RB Size=1 Position=#0

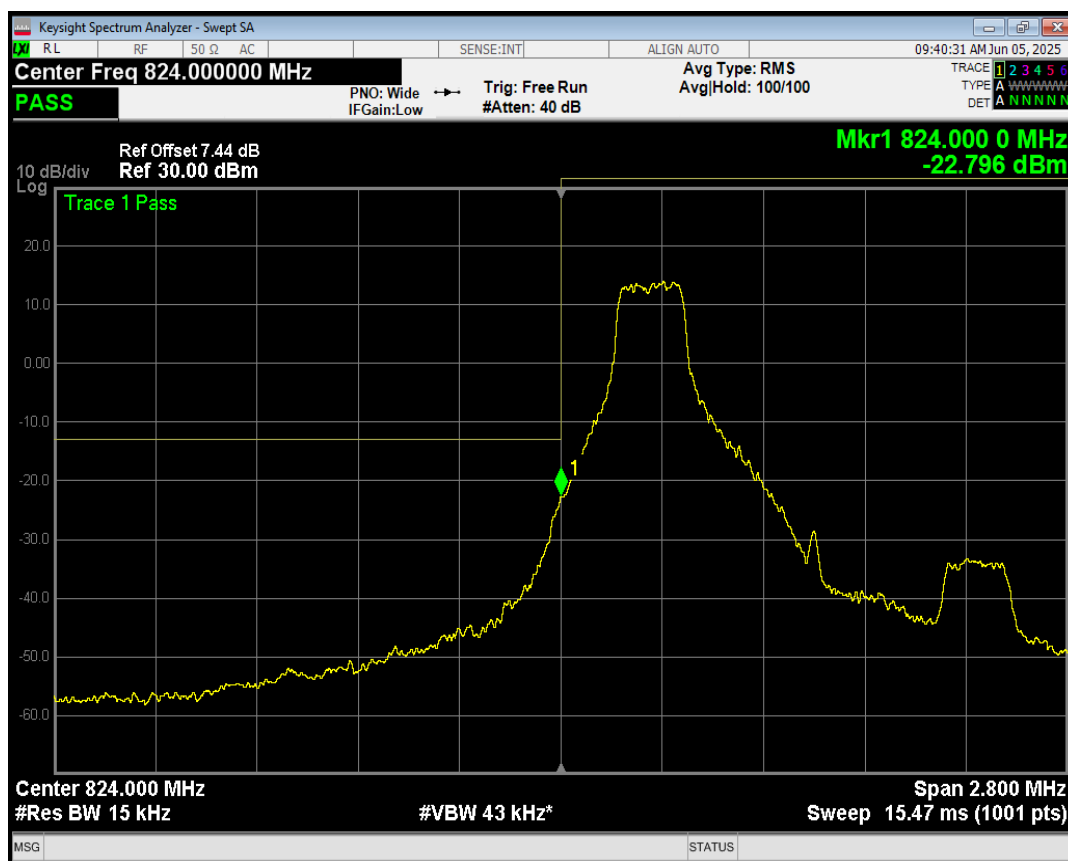


05 Band edge

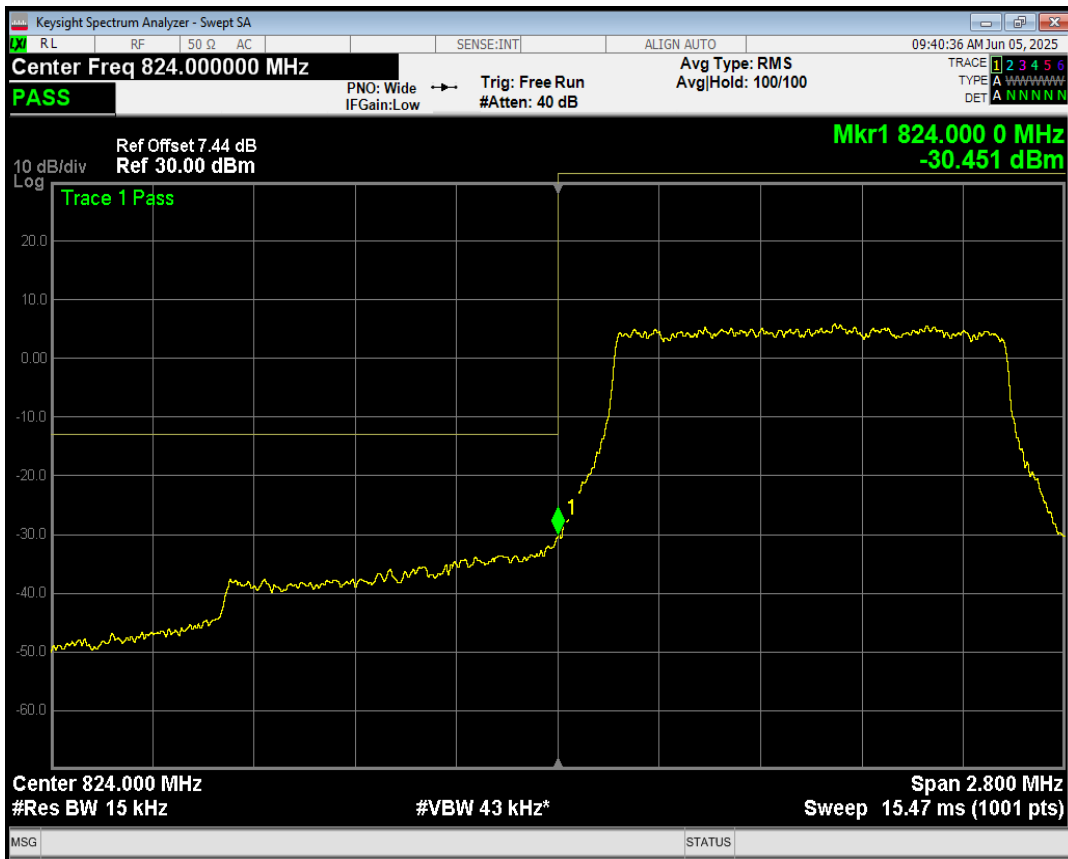
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	1	#0	QPSK	824.00	-22.79	-13	PASS
Band5	1.4	20407	6	#0	QPSK	824.00	-30.45	-13	PASS
Band5	1.4	20643	1	#0	QPSK	849.66	-39.02	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.00	-31.78	-13	PASS
Band5	3	20415	1	#0	QPSK	824.00	-21.14	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-32.00	-13	PASS
Band5	3	20635	1	#0	QPSK	851.23	-35.98	-13	PASS
Band5	3	20635	15	#0	QPSK	849.00	-34.04	-13	PASS
Band5	5	20425	1	#0	QPSK	824.00	-20.96	-13	PASS
Band5	5	20425	25	#0	QPSK	824.00	-30.70	-13	PASS
Band5	5	20625	1	#0	QPSK	852.98	-35.88	-13	PASS
Band5	5	20625	25	#0	QPSK	849.00	-32.07	-13	PASS
Band5	10	20450	1	#0	QPSK	823.98	-22.25	-13	PASS
Band5	10	20450	50	#0	QPSK	824.00	-32.88	-13	PASS
Band5	10	20600	1	#0	QPSK	857.24	-34.59	-13	PASS
Band5	10	20600	50	#0	QPSK	849.00	-33.81	-13	PASS
Band5	1.4	20407	6	#0	QAM16	824.00	-29.87	-13	PASS
Band5	1.4	20643	6	#0	QAM16	849.00	-31.58	-13	PASS
Band5	3	20415	15	#0	QAM16	823.99	-32.27	-13	PASS
Band5	3	20635	15	#0	QAM16	849.00	-34.39	-13	PASS
Band5	5	20425	25	#0	QAM16	824.00	-31.20	-13	PASS
Band5	5	20625	25	#0	QAM16	849.00	-31.82	-13	PASS
Band5	10	20450	1	#0	QAM16	824.00	-21.60	-13	PASS
Band5	10	20600	1	#0	QAM16	857.22	-35.01	-13	PASS
Band7	5	20775	1	#0	QPSK	2498.99	-14.67	-10	PASS
Band7	5	20775	25	#0	QPSK	2498.99	-14.67	-10	PASS
Band7	5	21425	1	#0	QPSK	2583.85	-38.68	-25	PASS
Band7	5	21425	25	#0	QPSK	2571.05	-17.76	-10	PASS
Band7	10	20800	1	#0	QPSK	2498.96	-13.38	-10	PASS
Band7	10	20800	50	#0	QPSK	2489.00	-38.13	-25	PASS
Band7	10	21400	1	#0	QPSK	2589.95	-38.92	-25	PASS
Band7	10	21400	50	#0	QPSK	2580.75	-38.80	-25	PASS
Band7	15	20825	1	#0	QPSK	2500.00	-18.62	-10	PASS
Band7	15	20825	75	#0	QPSK	2495.98	-25.76	-13	PASS
Band7	15	21375	1	#0	QPSK	2594.30	-38.67	-25	PASS
Band7	15	21375	75	#0	QPSK	2572.40	-22.19	-10	PASS
Band7	20	20850	1	#0	QPSK	2499.94	-22.21	-10	PASS
Band7	20	20850	100	#0	QPSK	2495.60	-27.20	-13	PASS
Band7	20	21350	1	#0	QPSK	2590.92	-38.70	-25	PASS
Band7	20	21350	100	#0	QPSK	2590.13	-38.57	-25	PASS
Band7	5	20775	25	#0	QAM16	2498.97	-16.45	-10	PASS

Band7	5	21425	25	#0	QAM16	2571.01	-15.63	-10	PASS
Band7	10	20800	1	#0	QAM16	2498.98	-12.36	-10	PASS
Band7	10	21400	1	#0	QAM16	2593.48	-38.85	-25	PASS
Band7	15	20825	1	#0	QAM16	2499.92	-18.52	-10	PASS
Band7	15	21375	1	#0	QAM16	2589.12	-38.62	-25	PASS
Band7	20	20850	1	#0	QAM16	2499.96	-21.94	-10	PASS
Band7	20	21350	1	#0	QAM16	2594.49	-38.79	-25	PASS

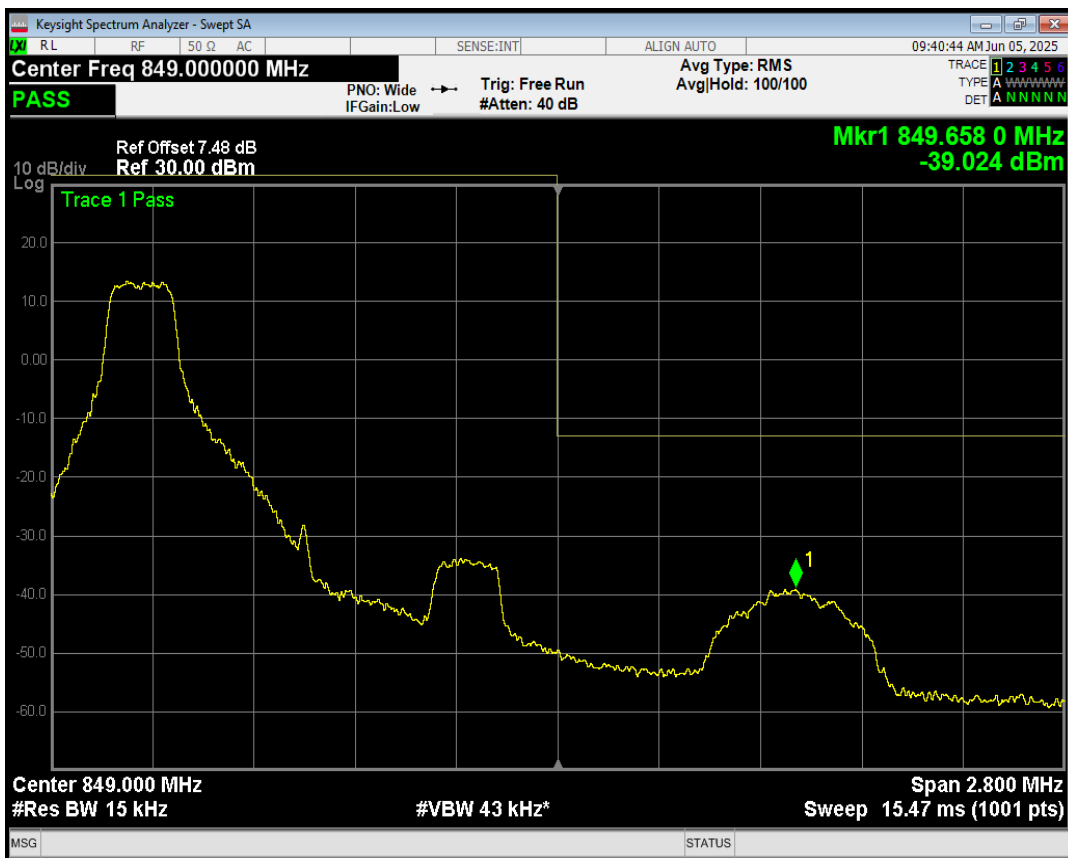
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0



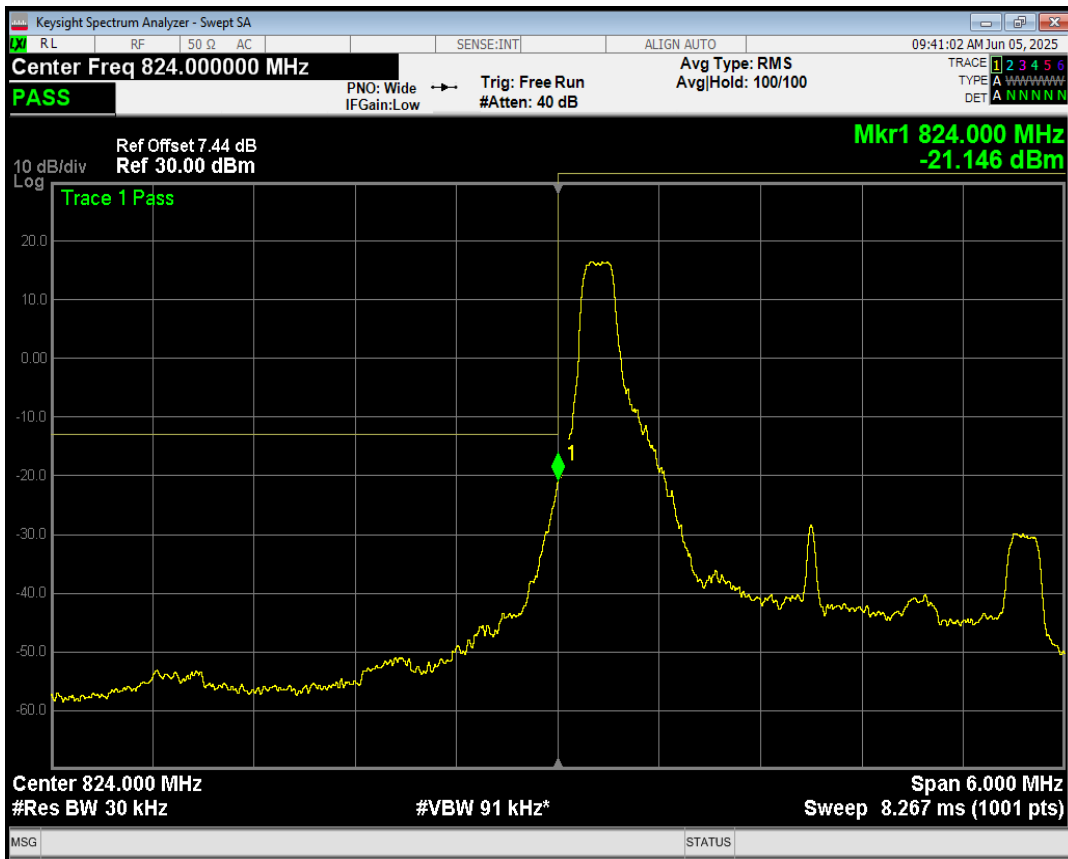
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



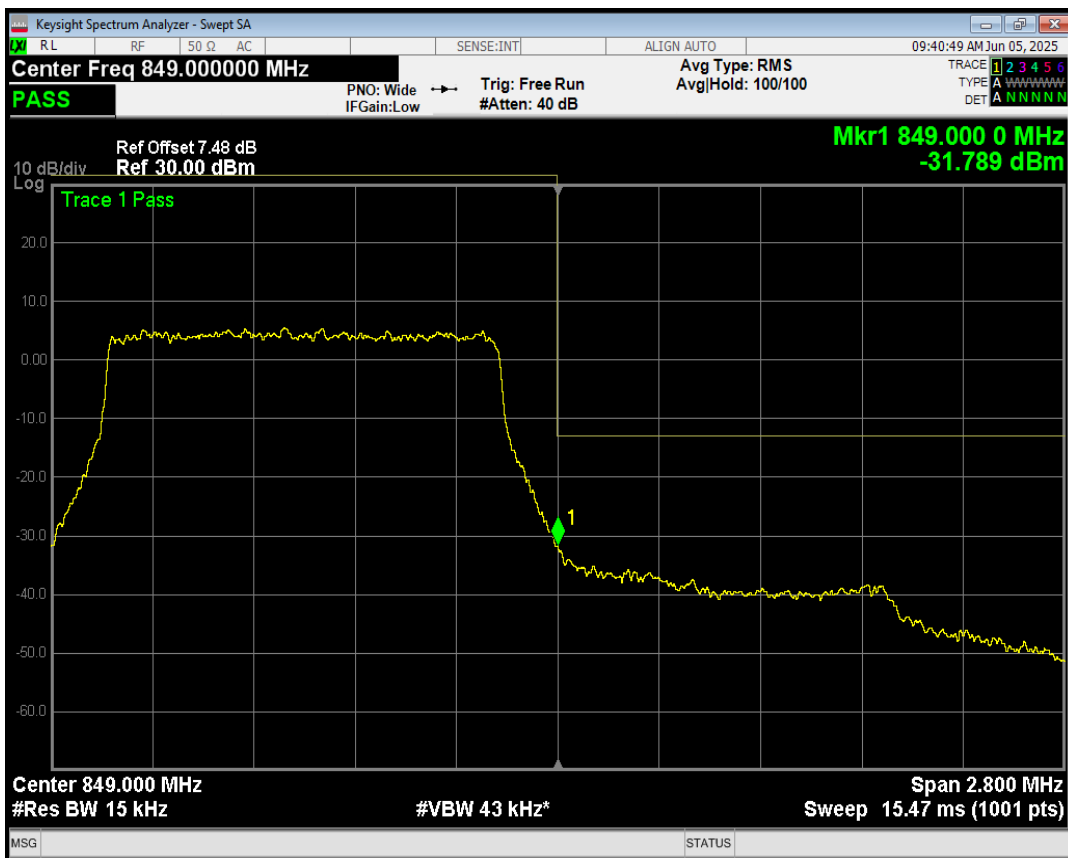
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



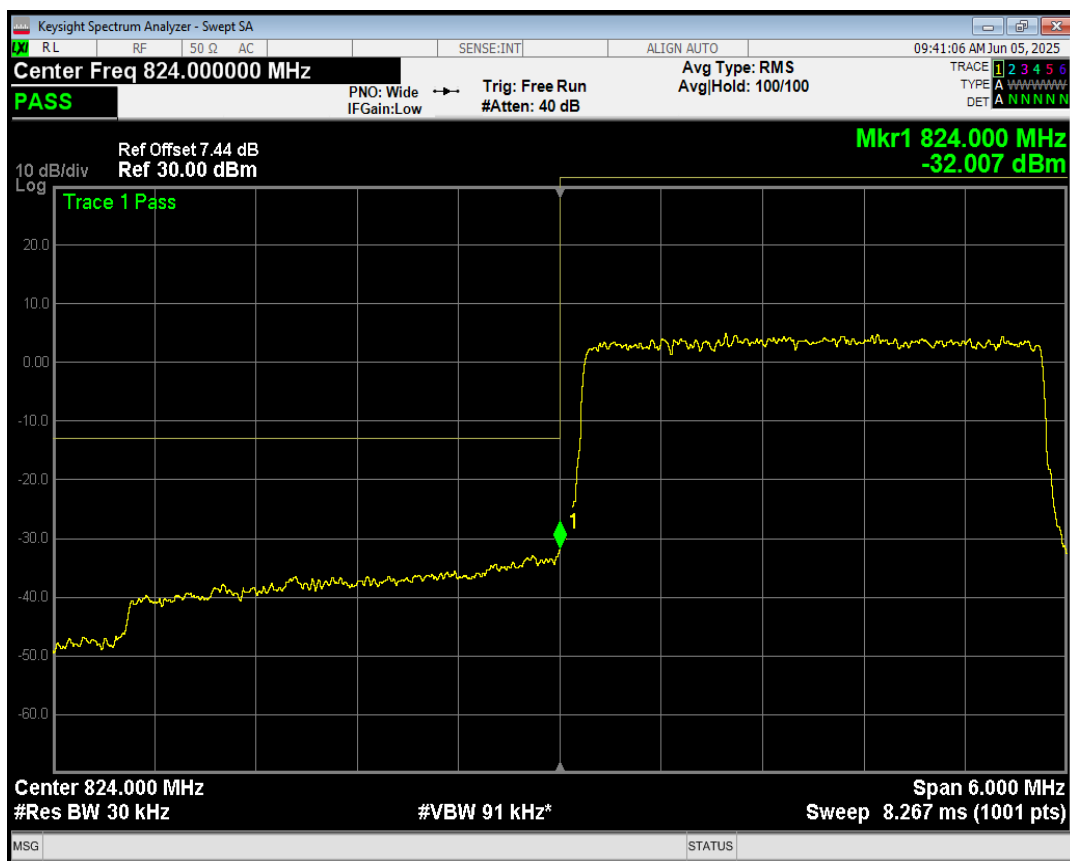
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Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



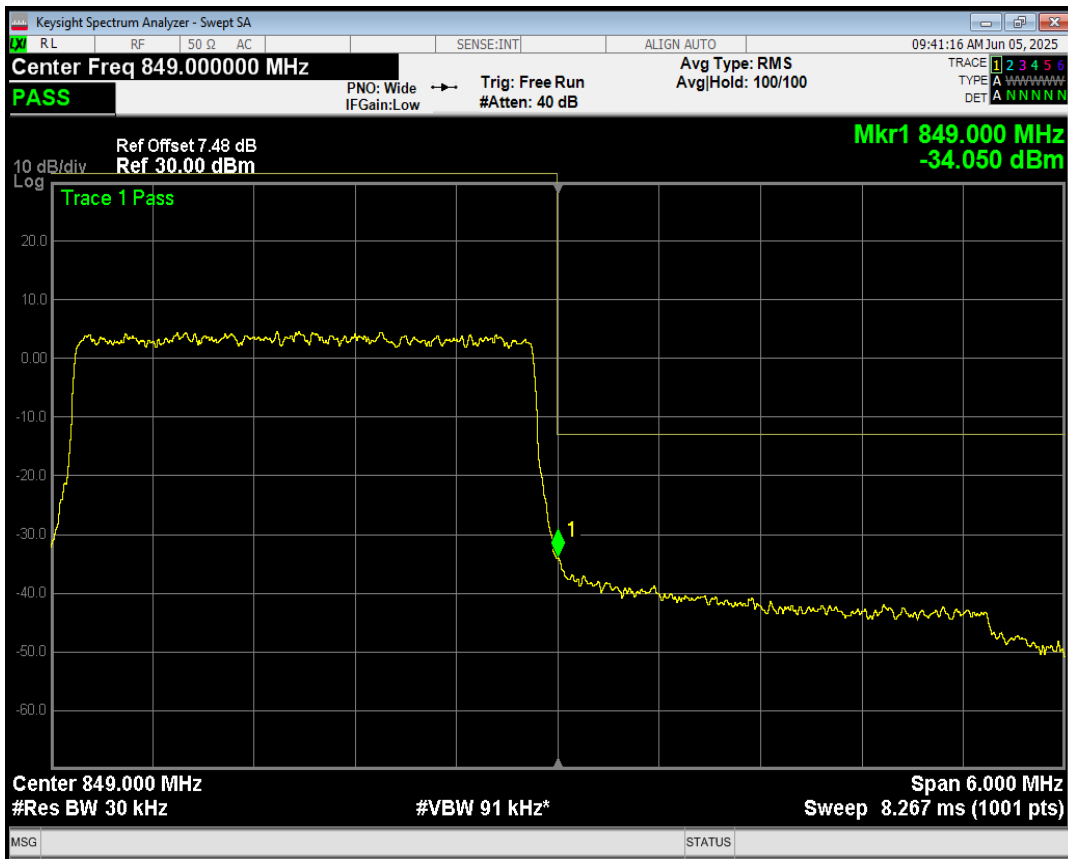
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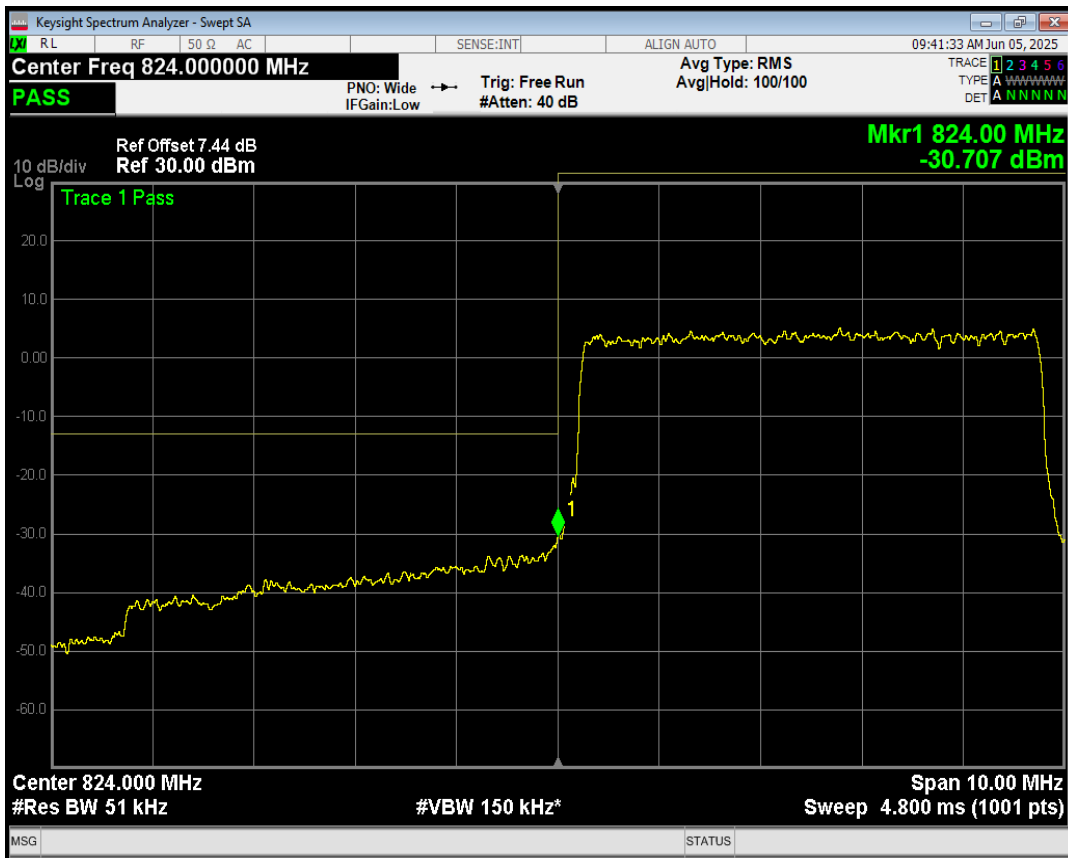
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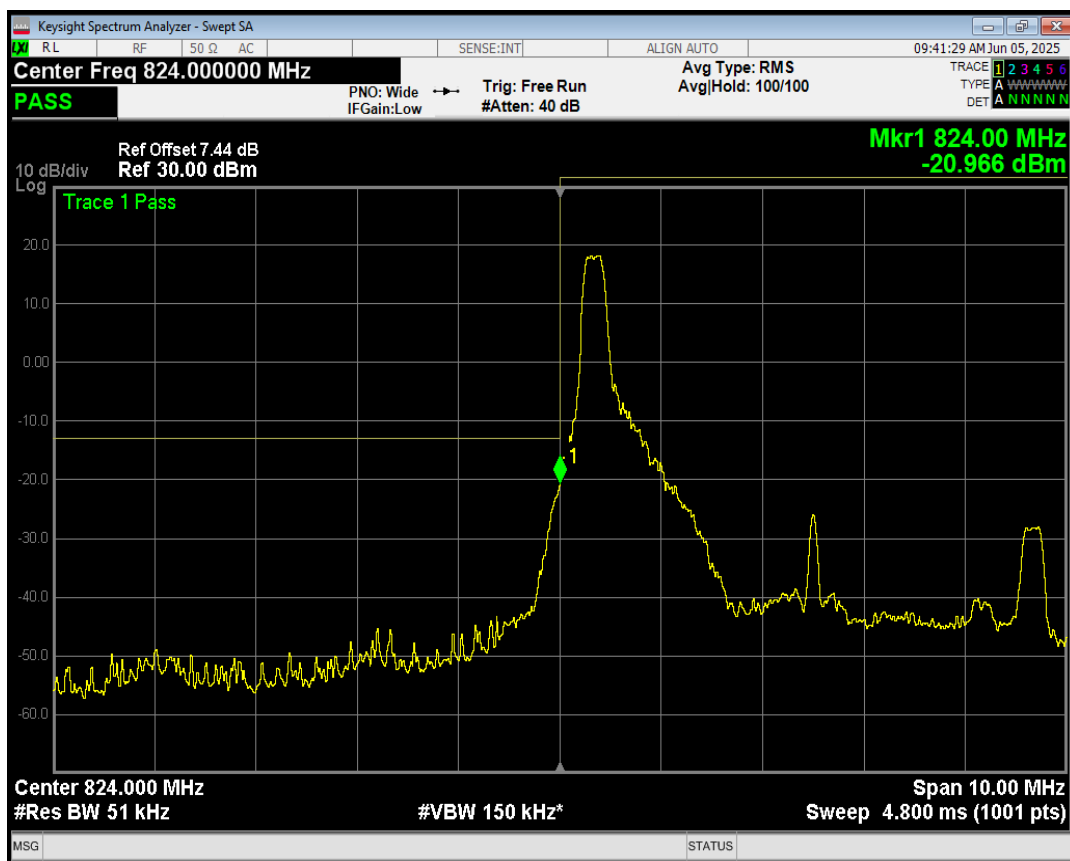
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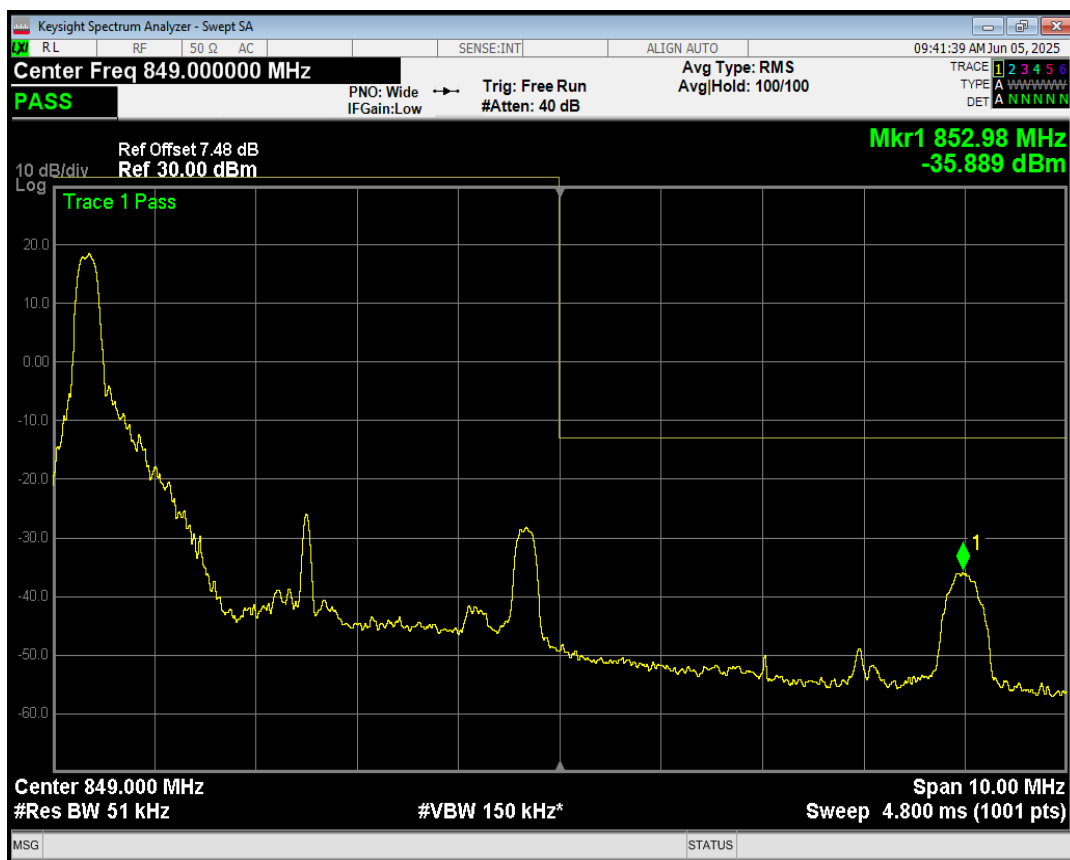
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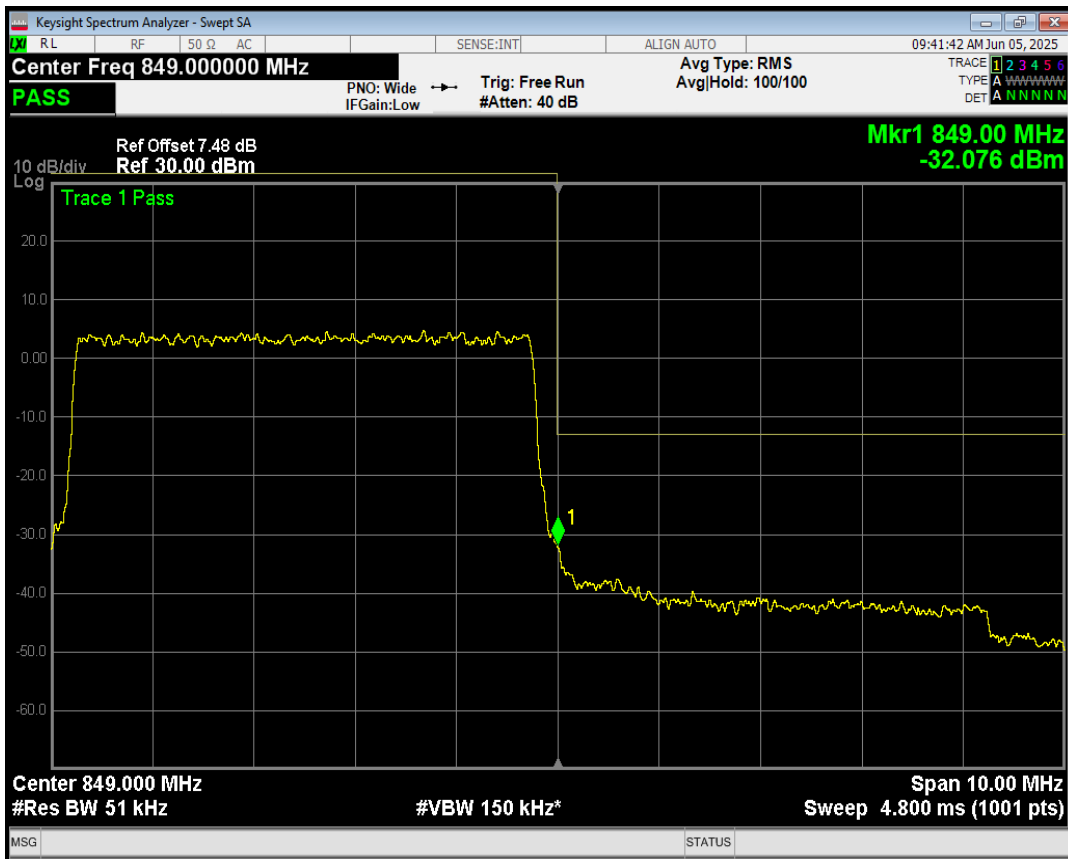
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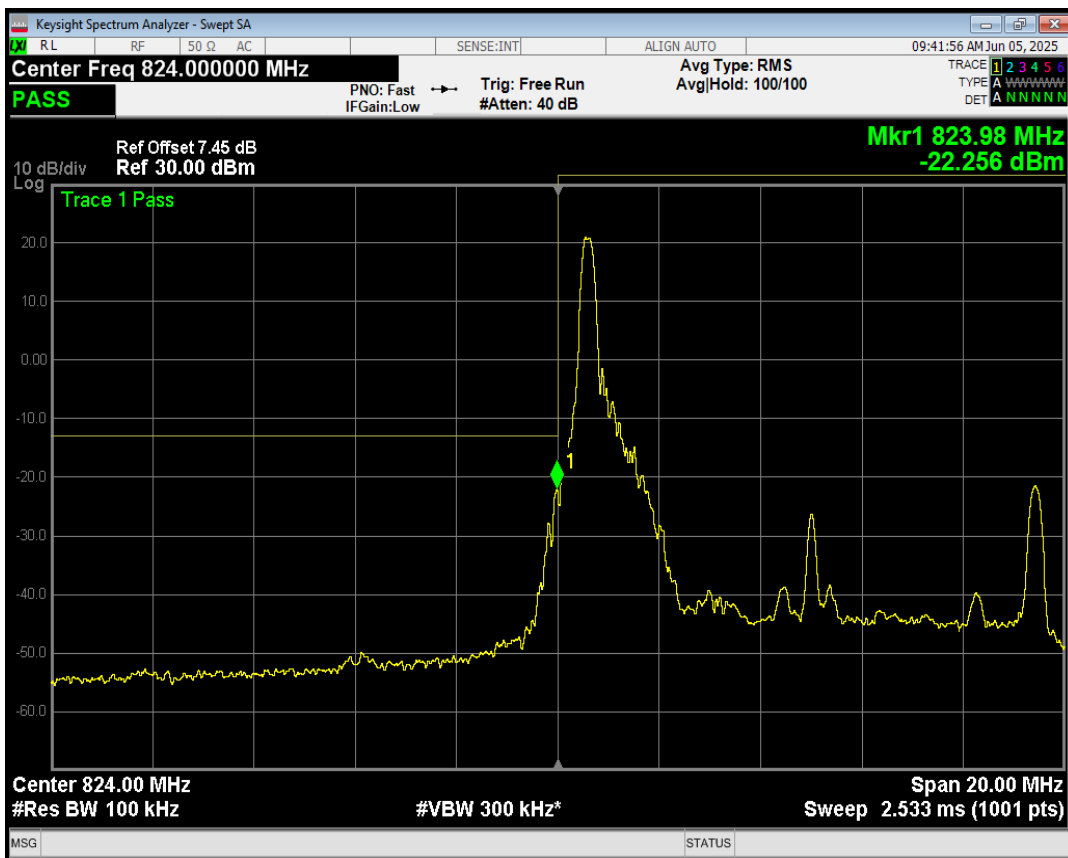
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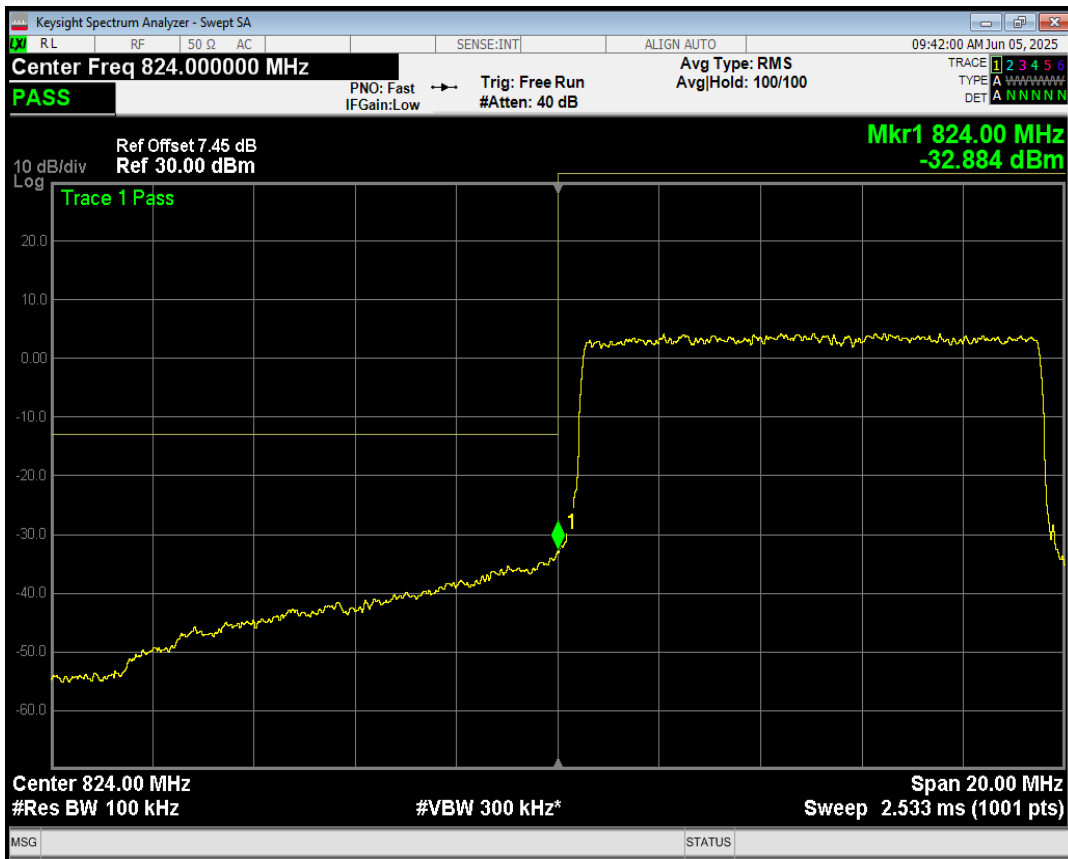
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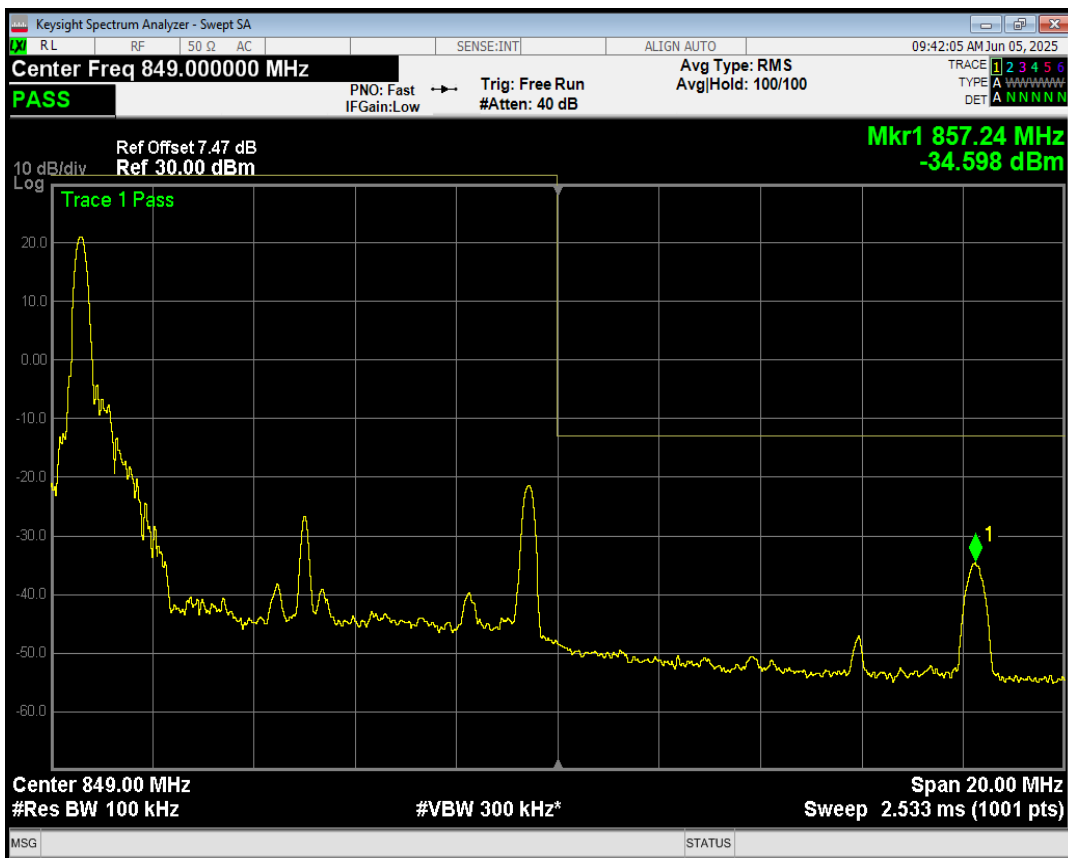
Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



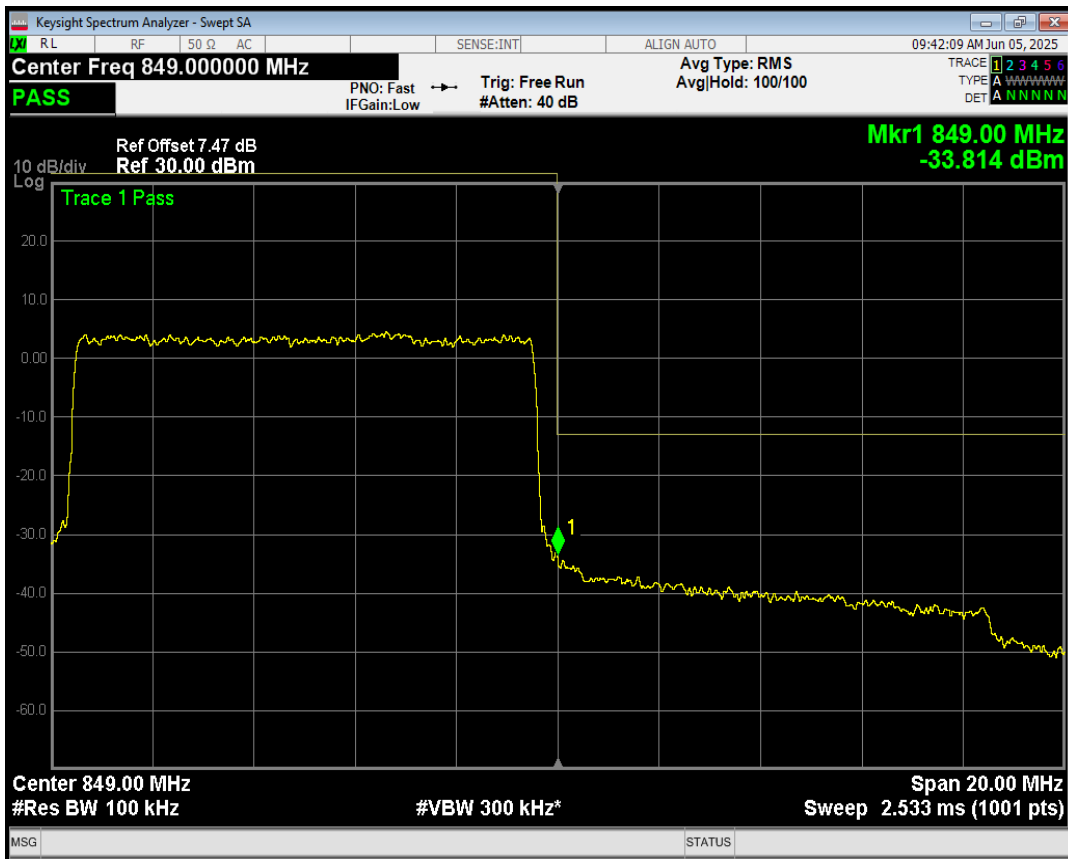
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



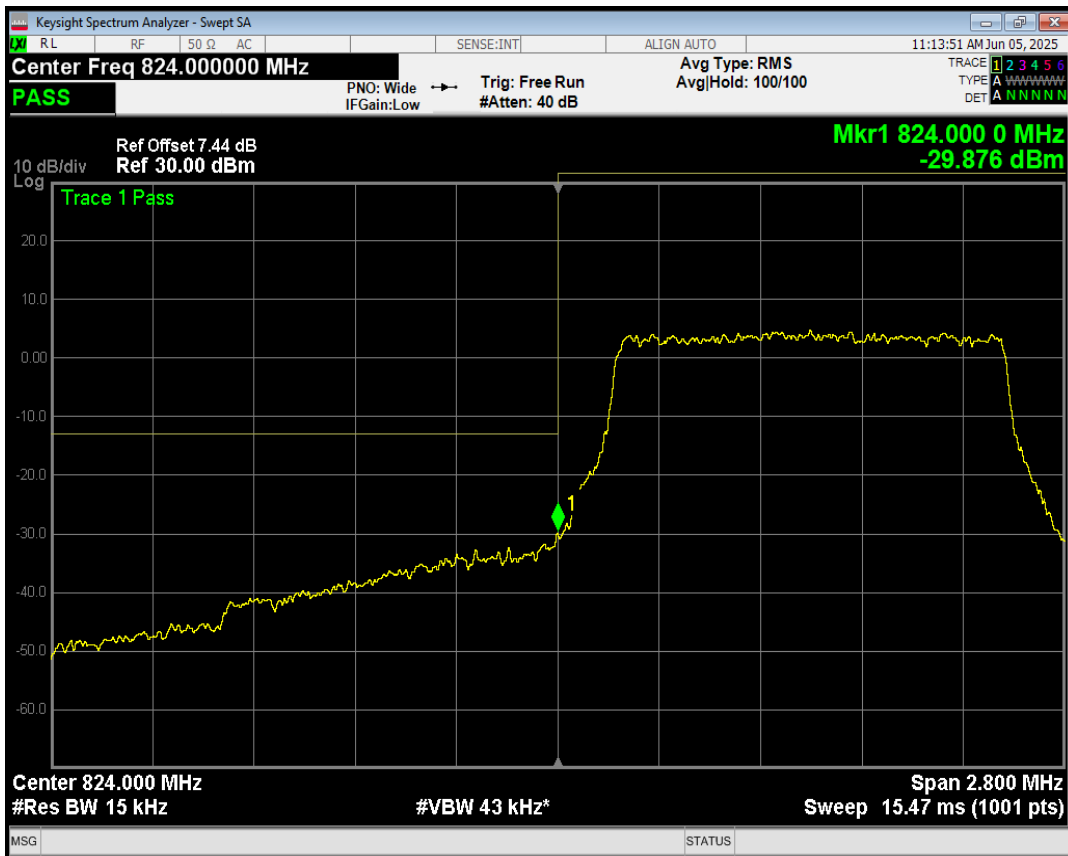
Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0



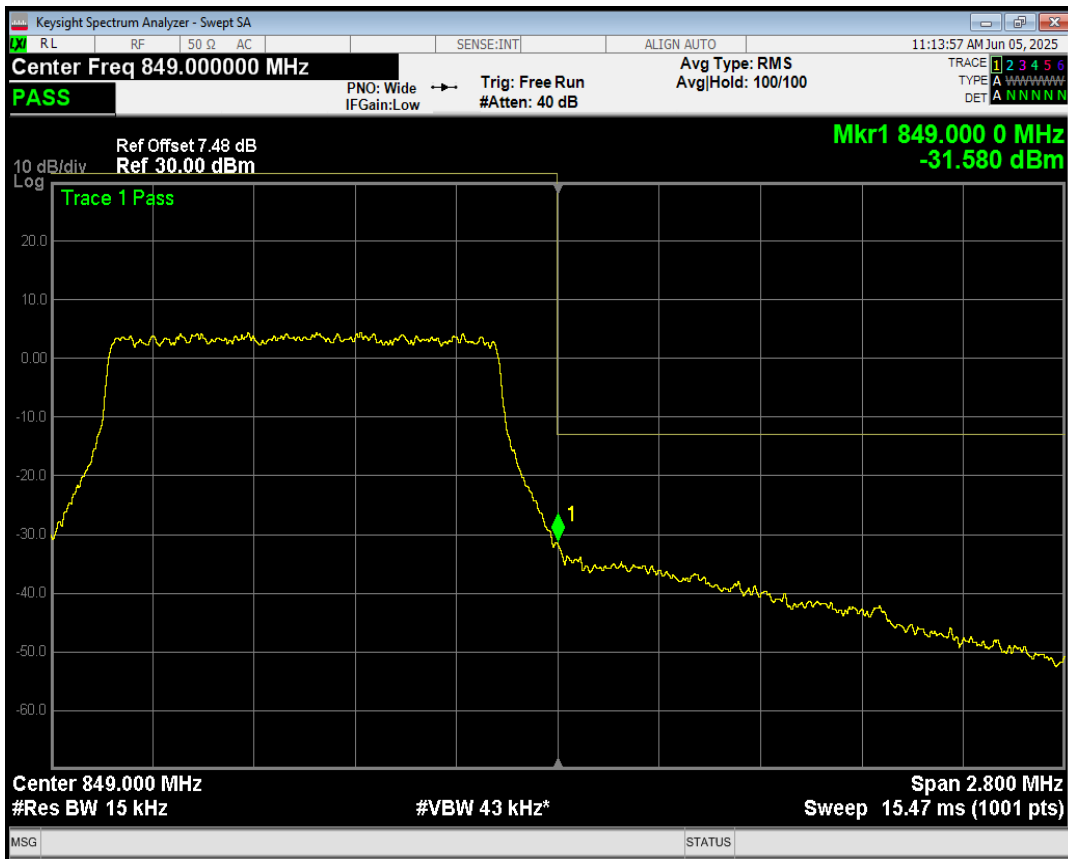
Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0



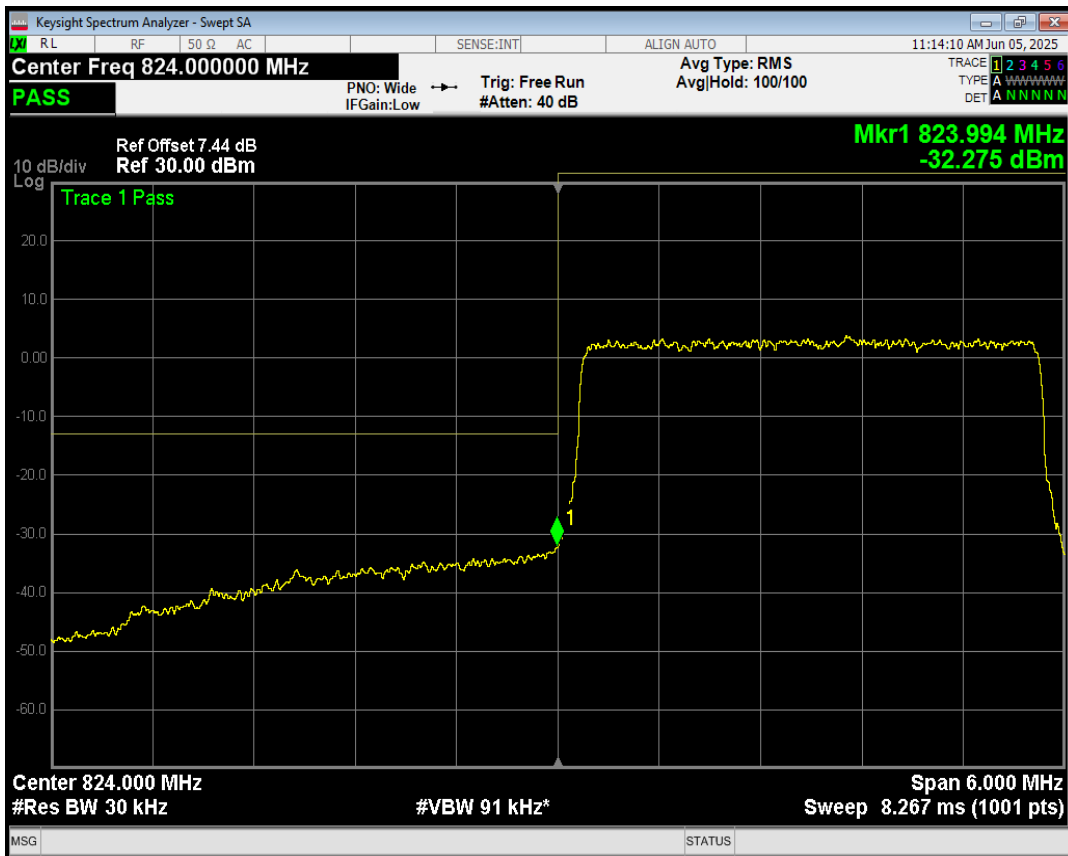
Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0



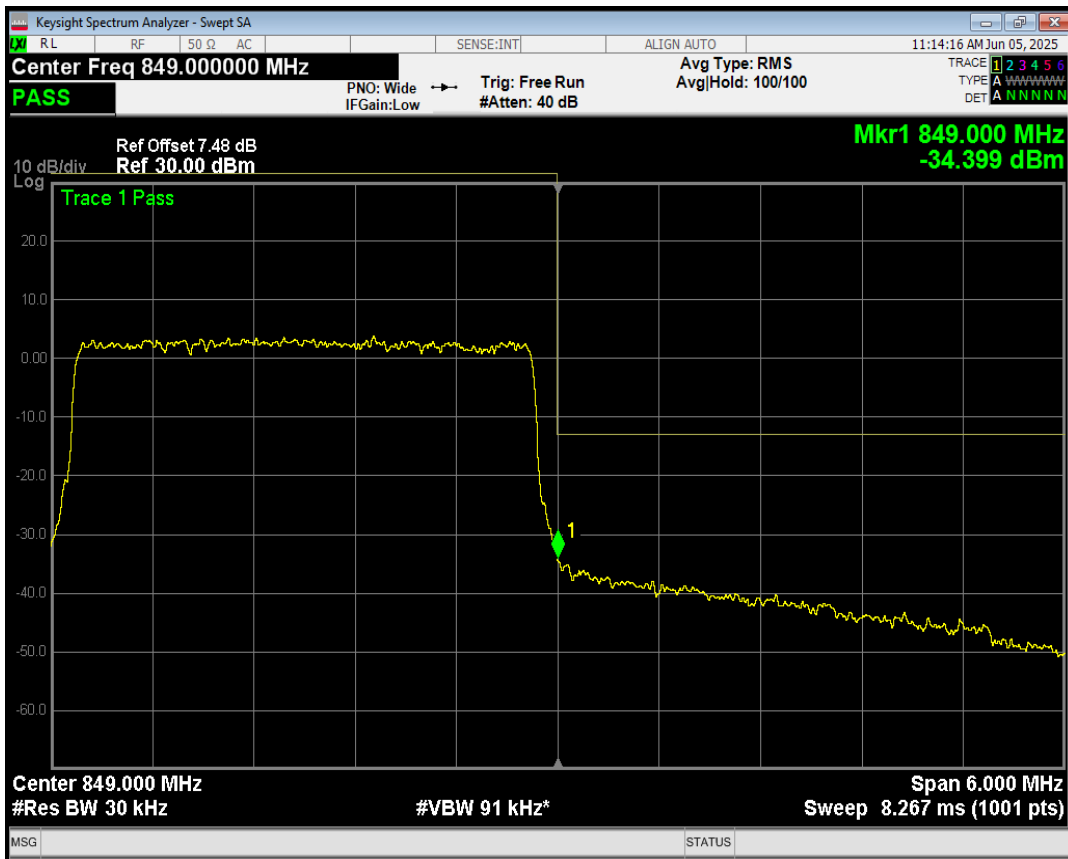
Band5 QAM16 BW=1.4MHz Channel=20643 RB Size=6 Position=#0



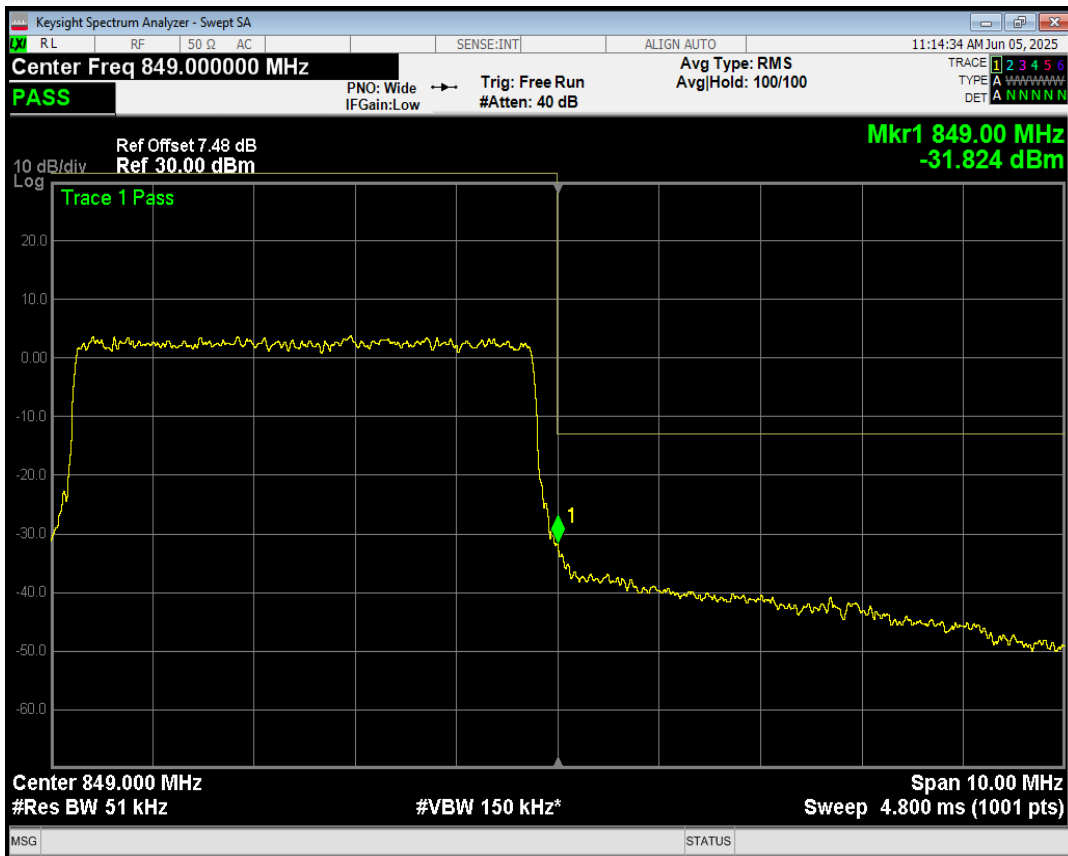
Band5 QAM16 BW=3MHz Channel=20415 RB Size=15 Position=#0



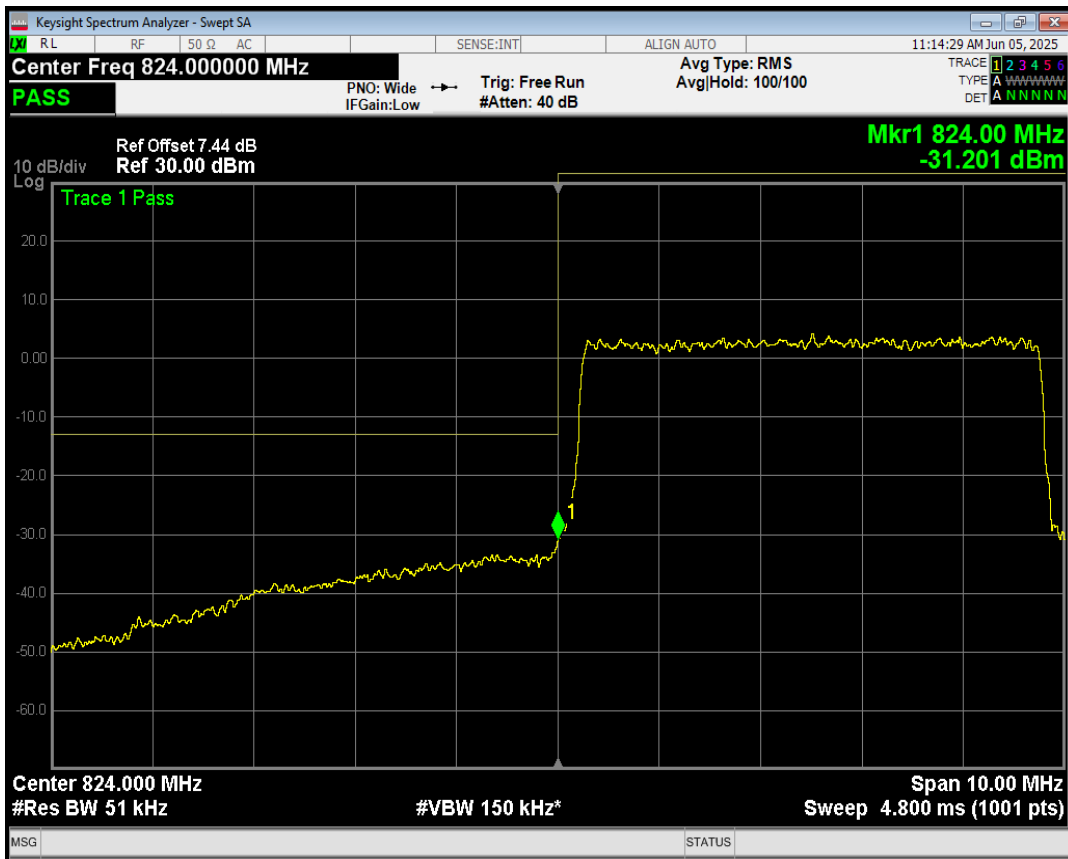
Band5 QAM16 BW=3MHz Channel=20635 RB Size=15 Position=#0



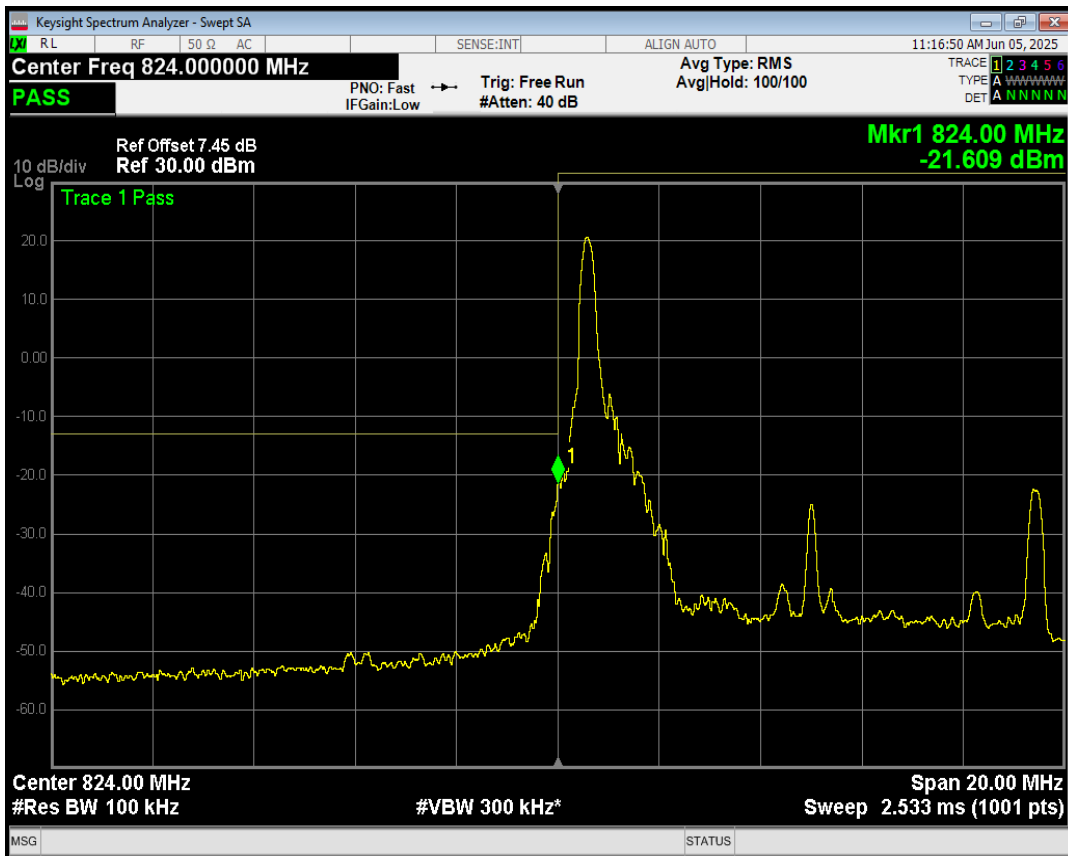
Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0



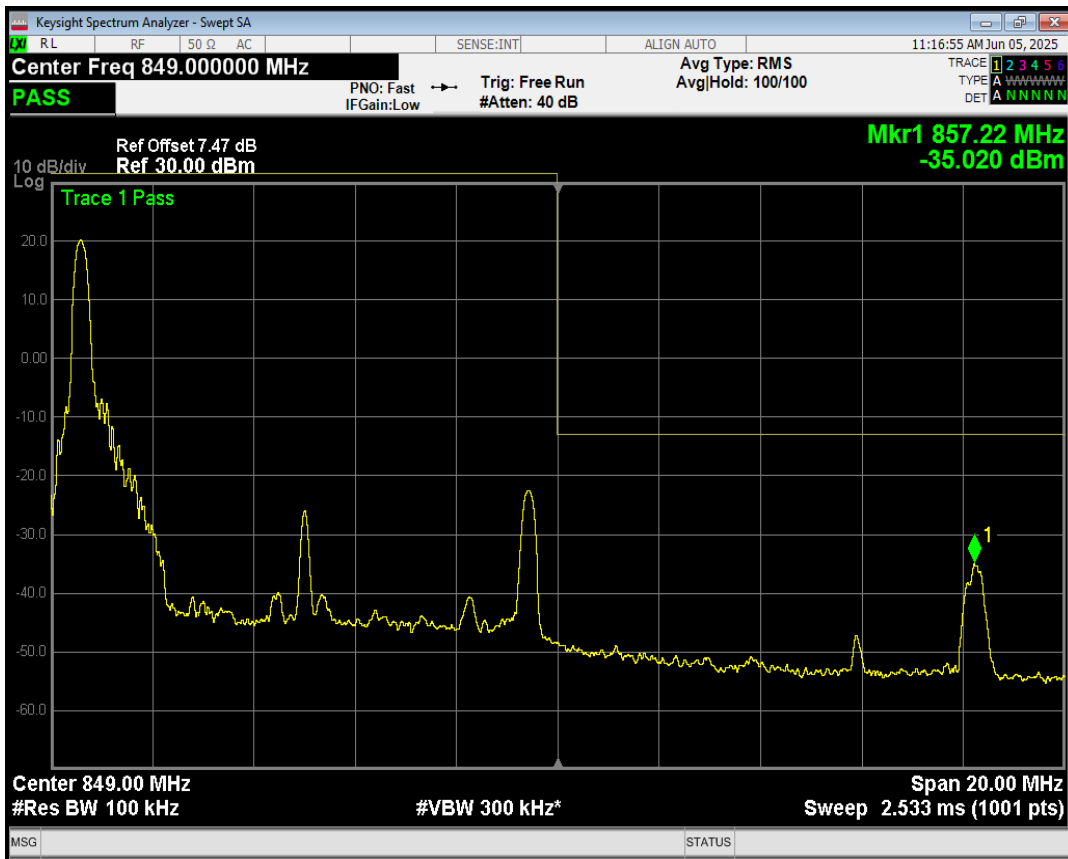
Band5 QAM16 BW=5MHz Channel=20425 RB Size=25 Position=#0



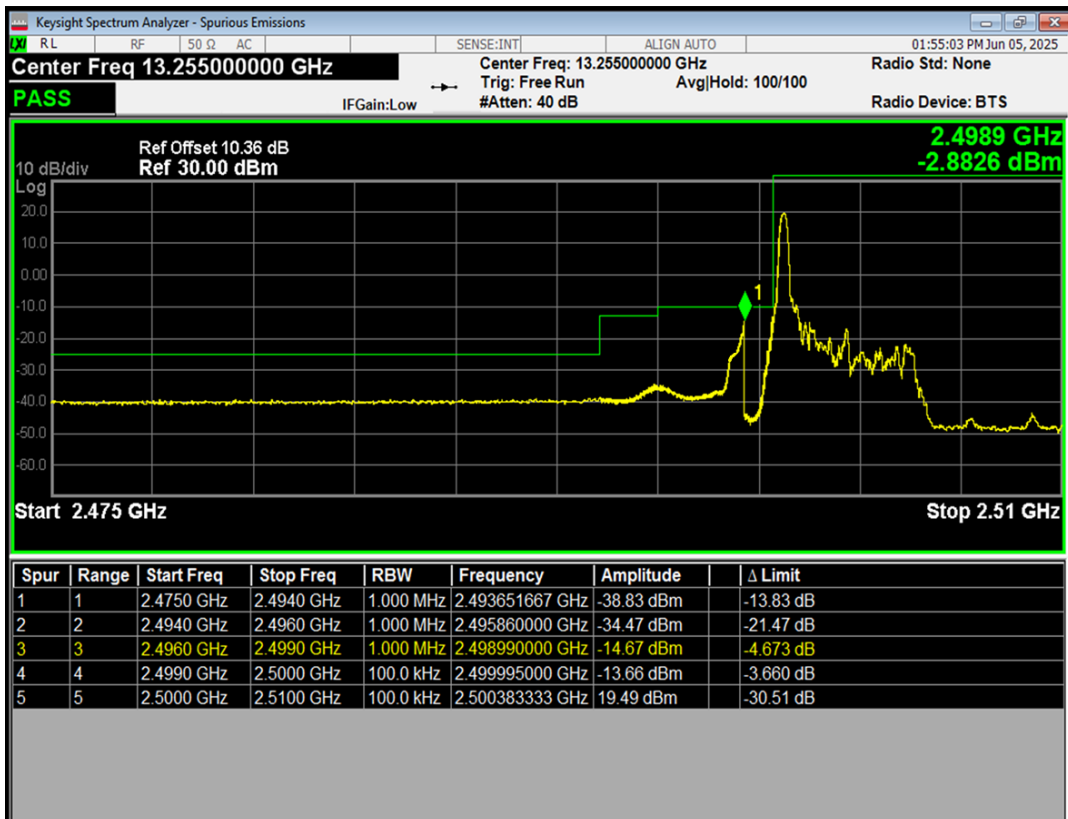
Band5 QAM16 BW=10MHz Channel=20450 RB Size=1 Position=#0



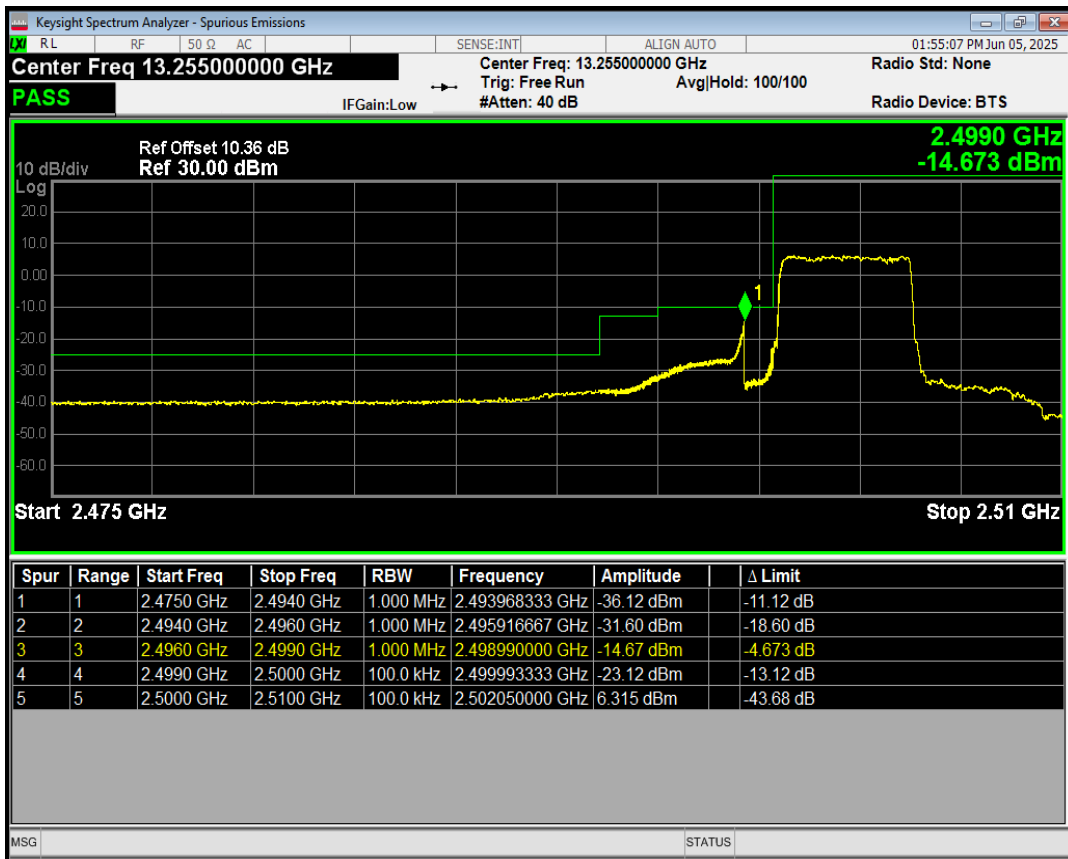
Band5 QAM16 BW=10MHz Channel=20600 RB Size=1 Position=#0



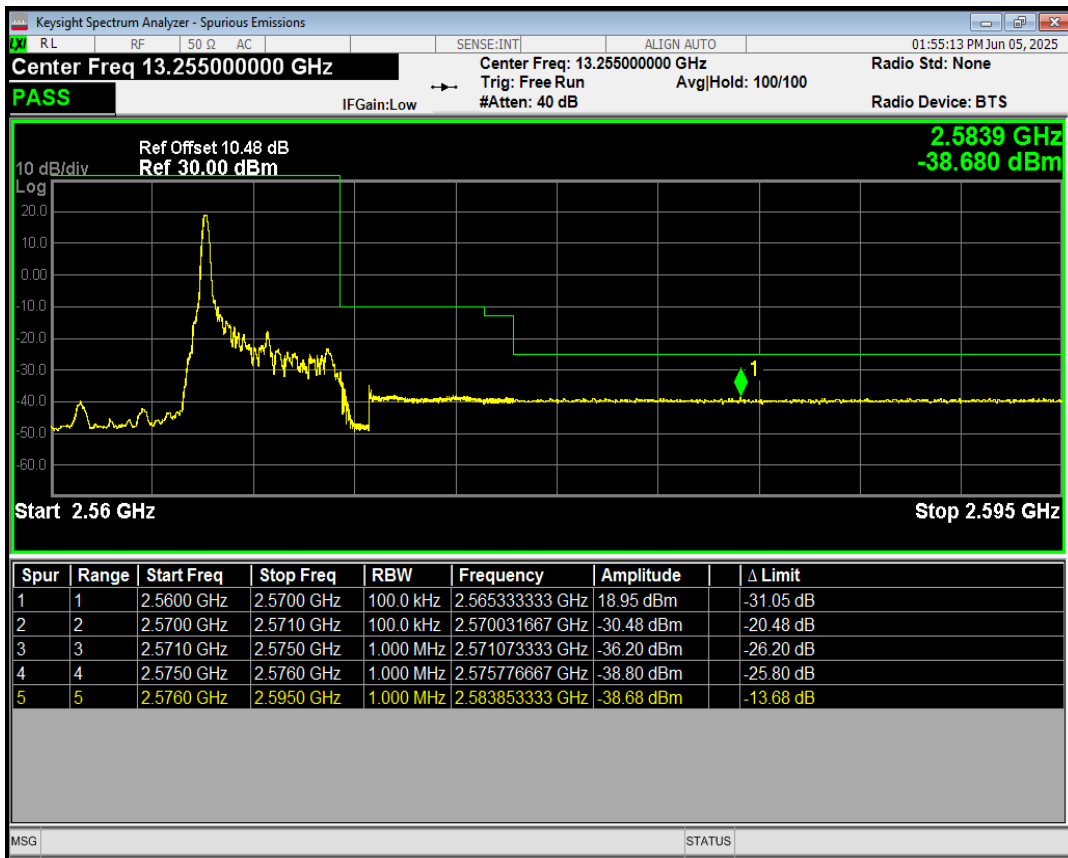
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



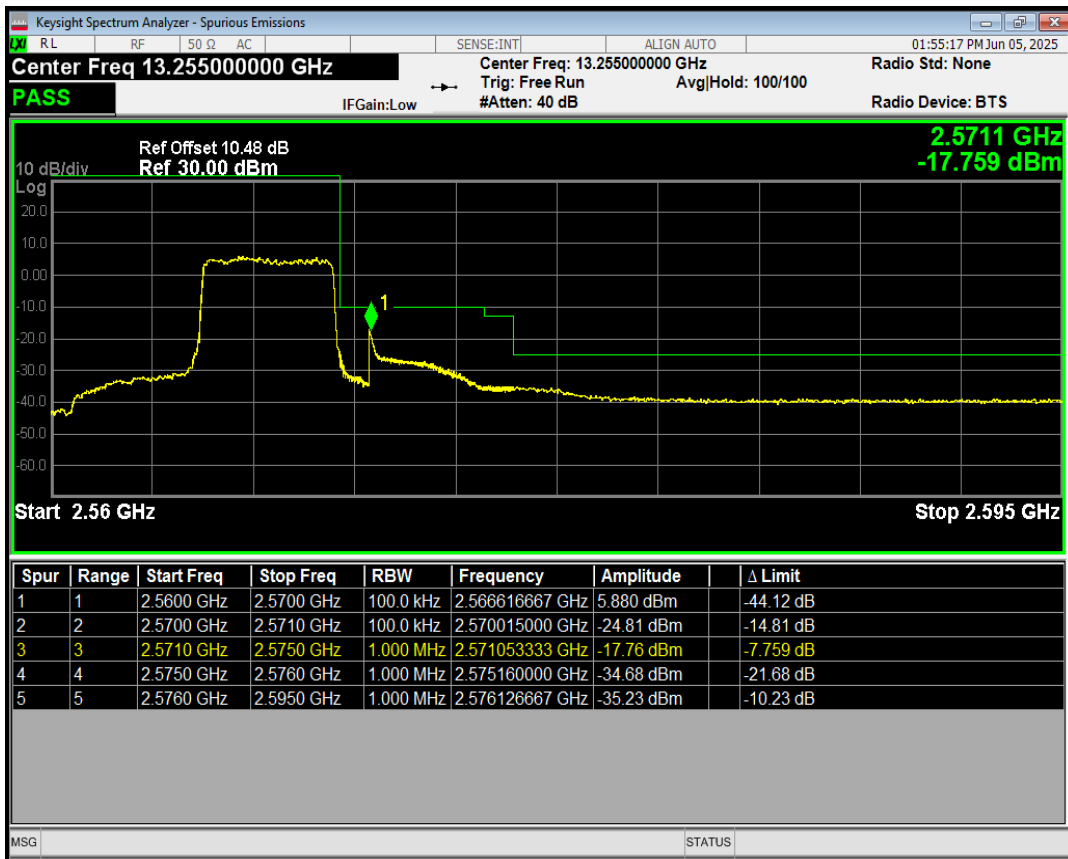
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



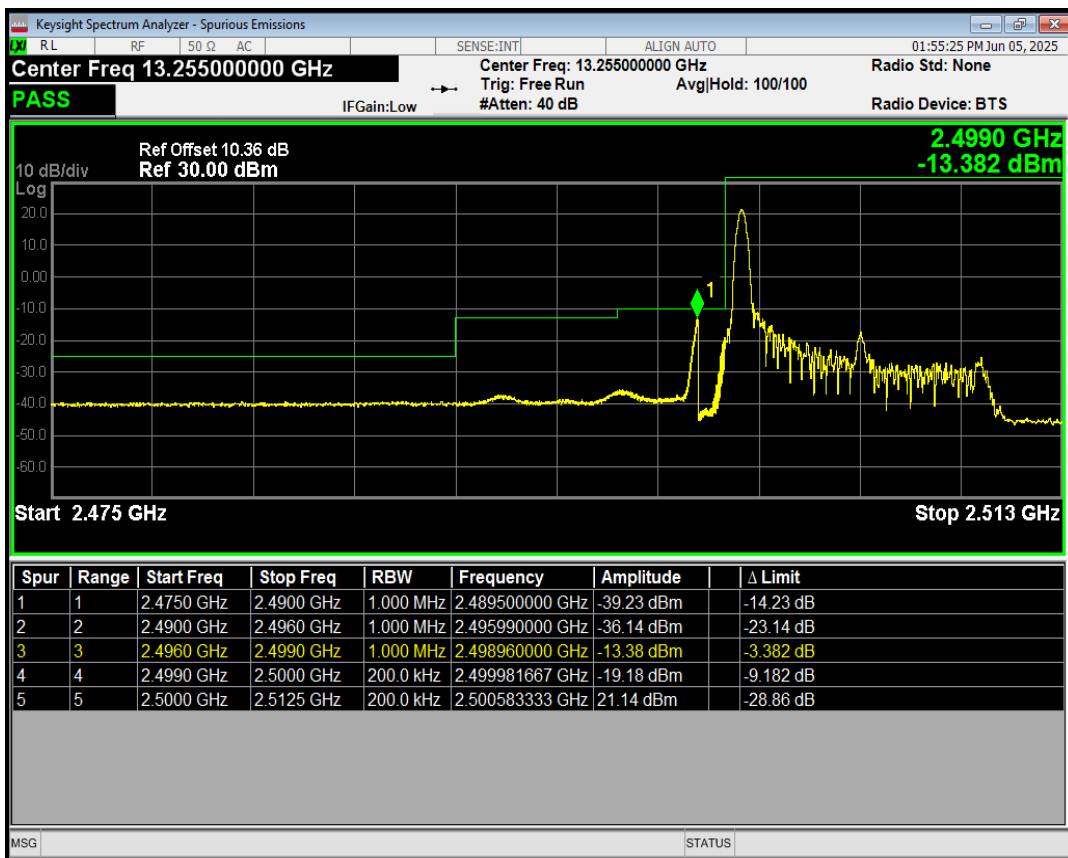
Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



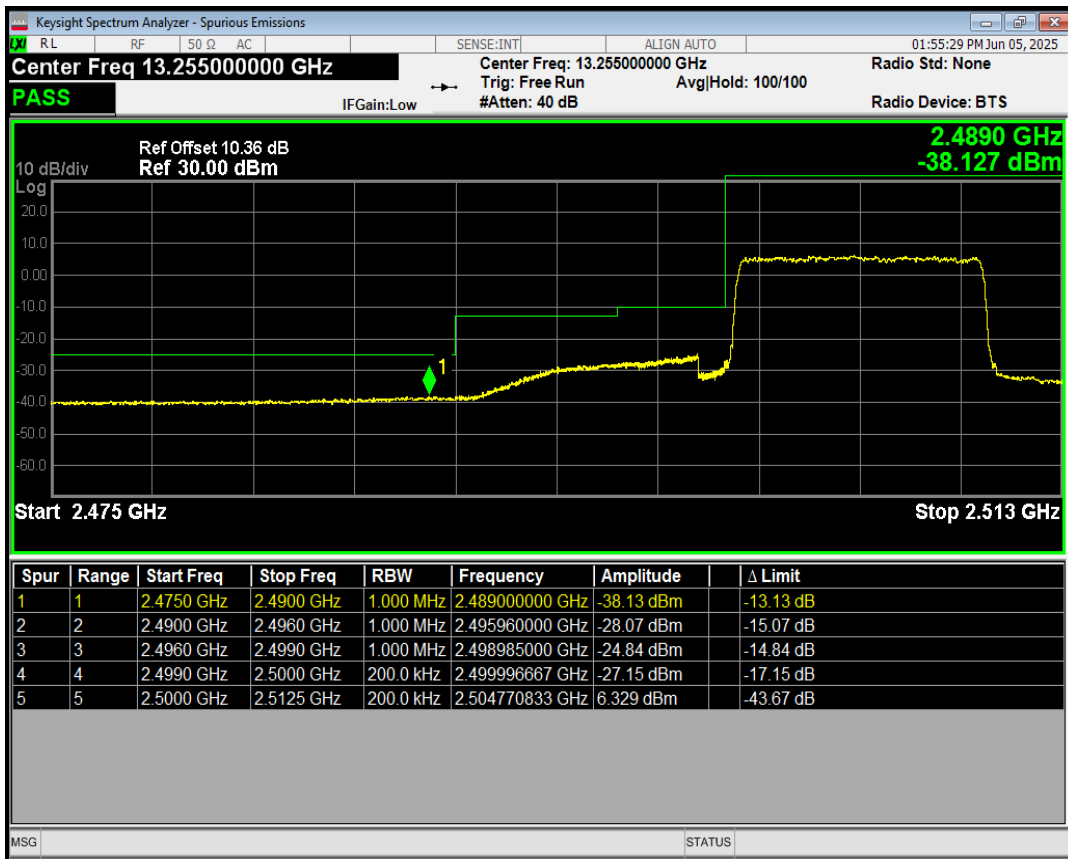
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



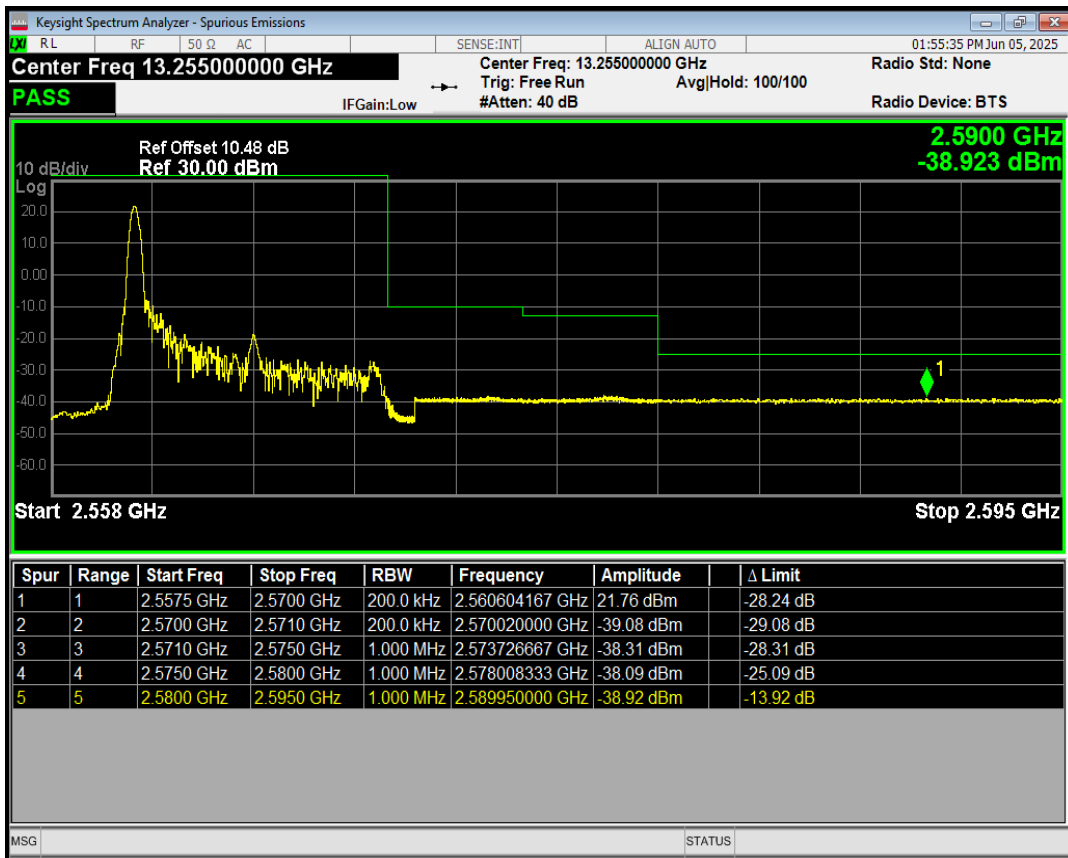
Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



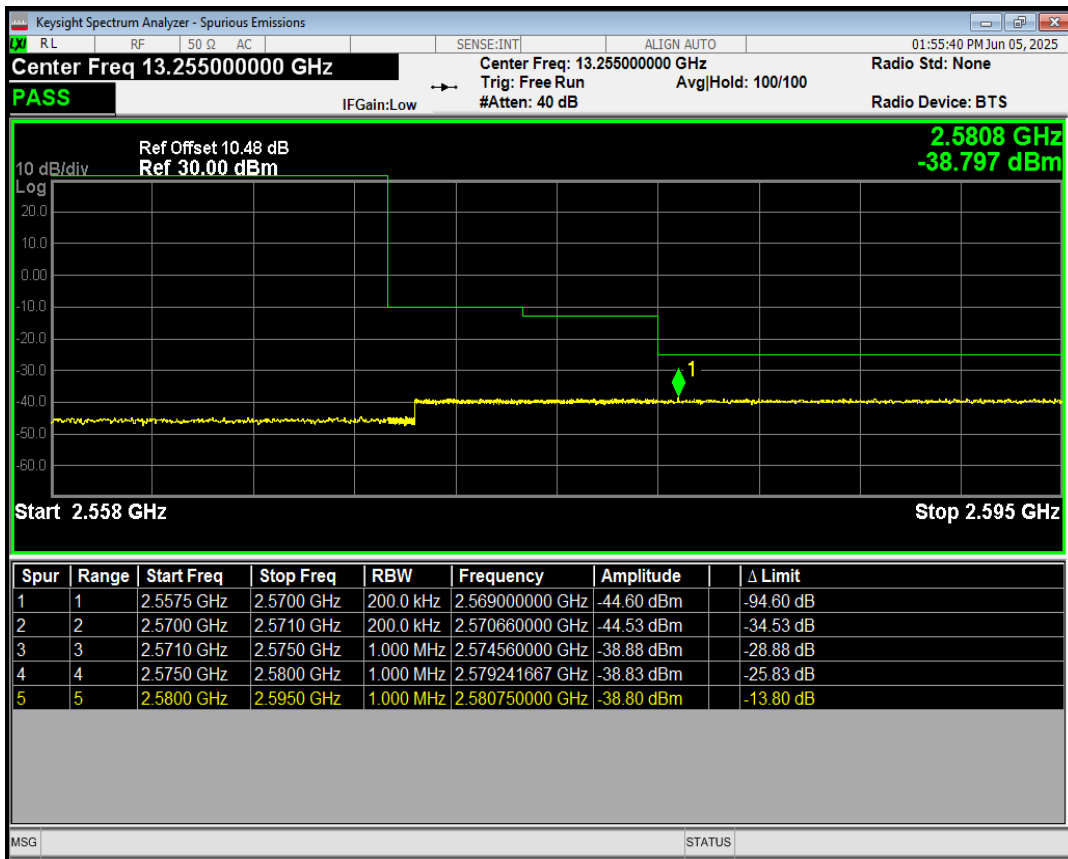
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



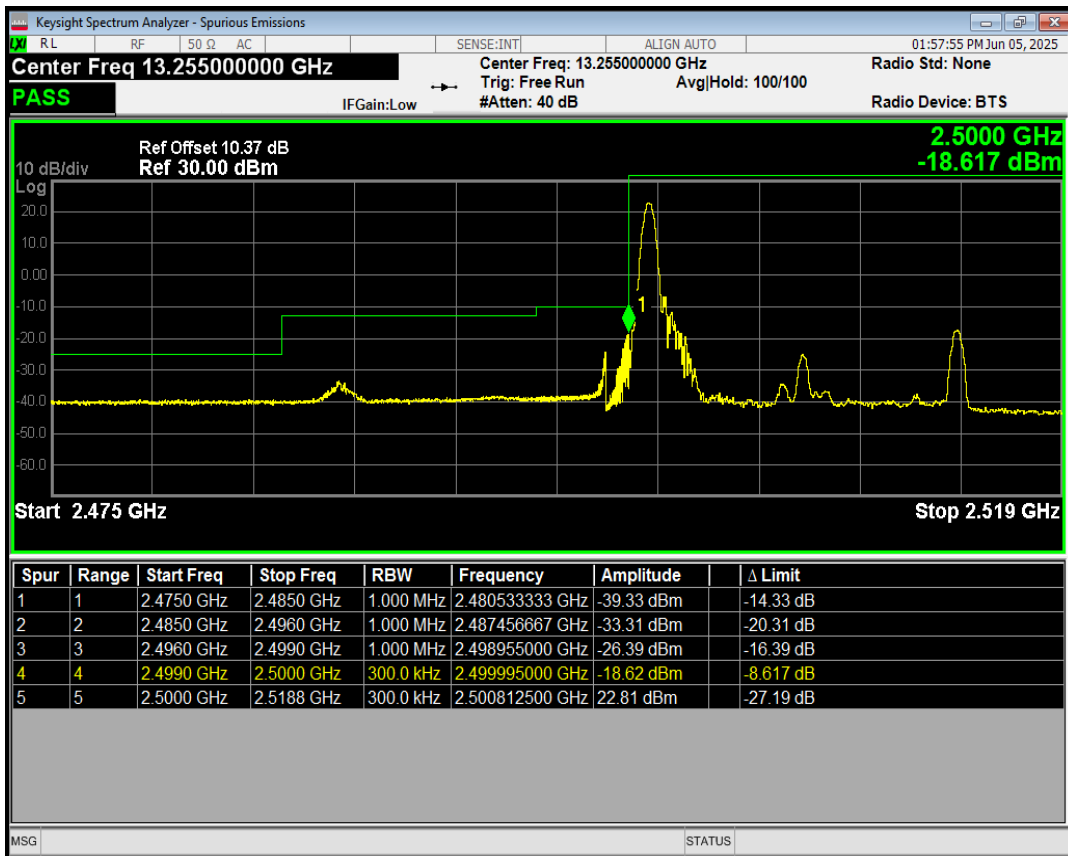
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



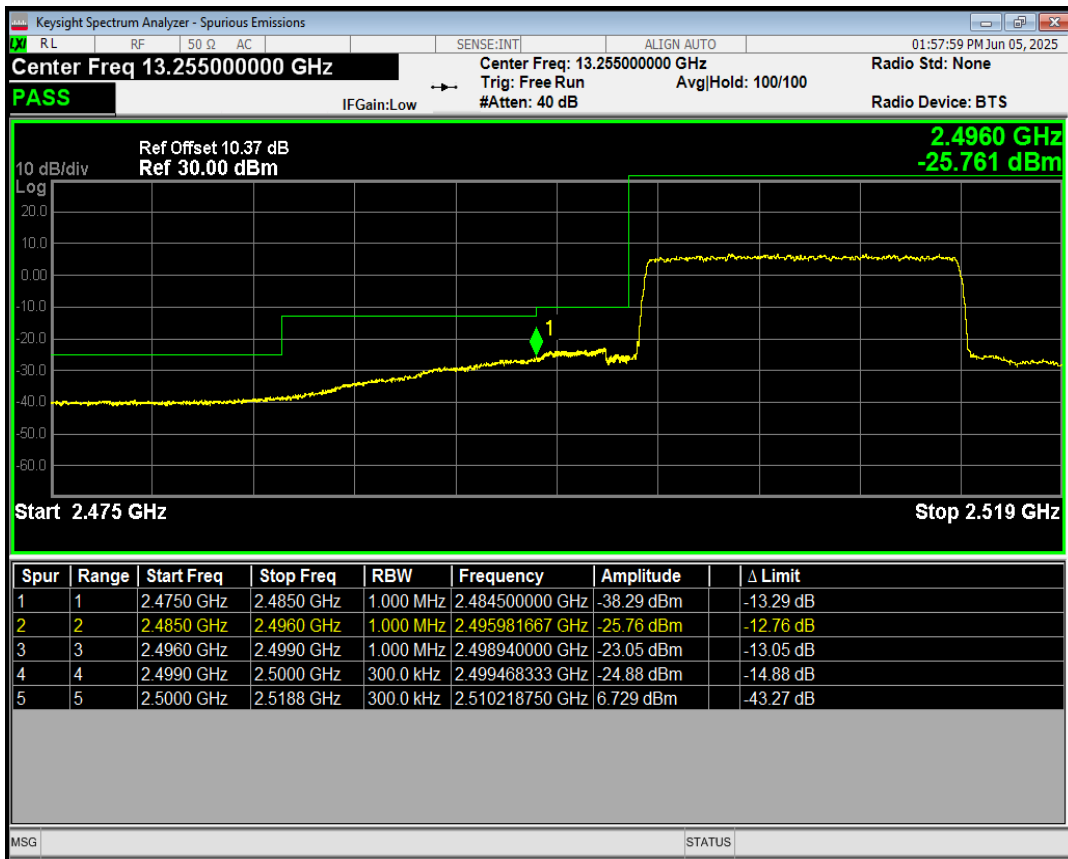
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



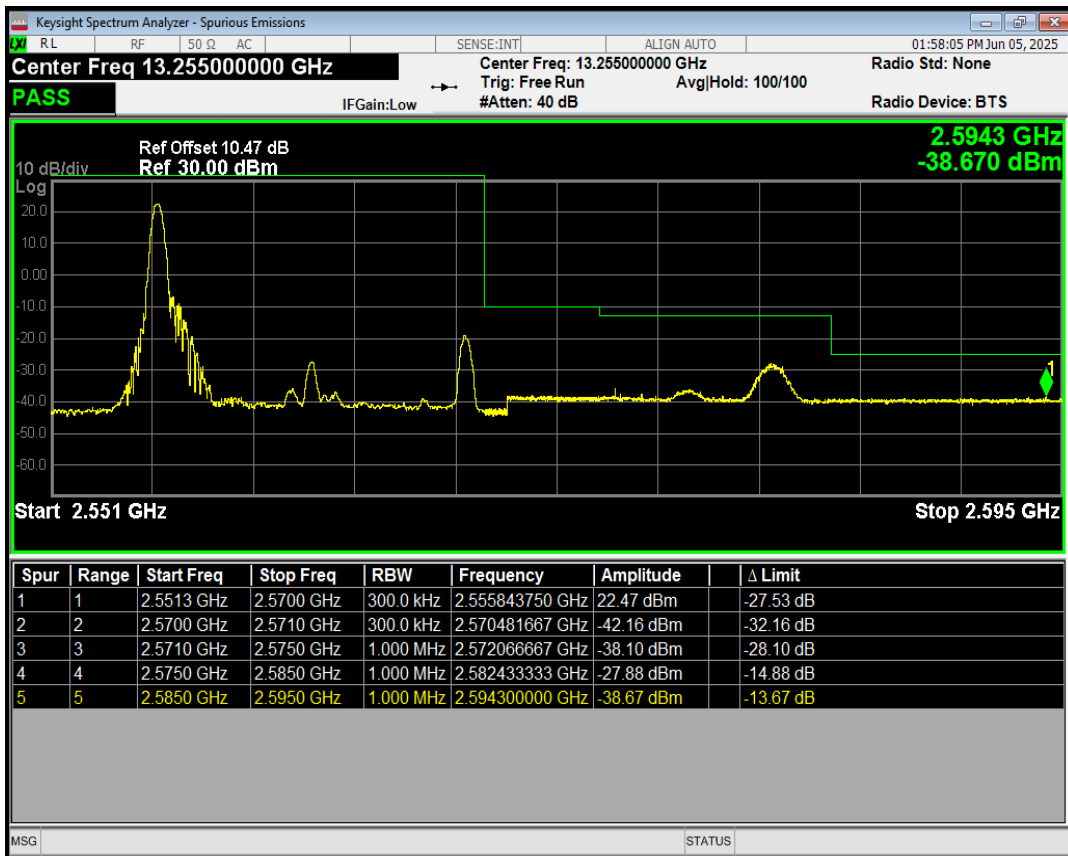
Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0



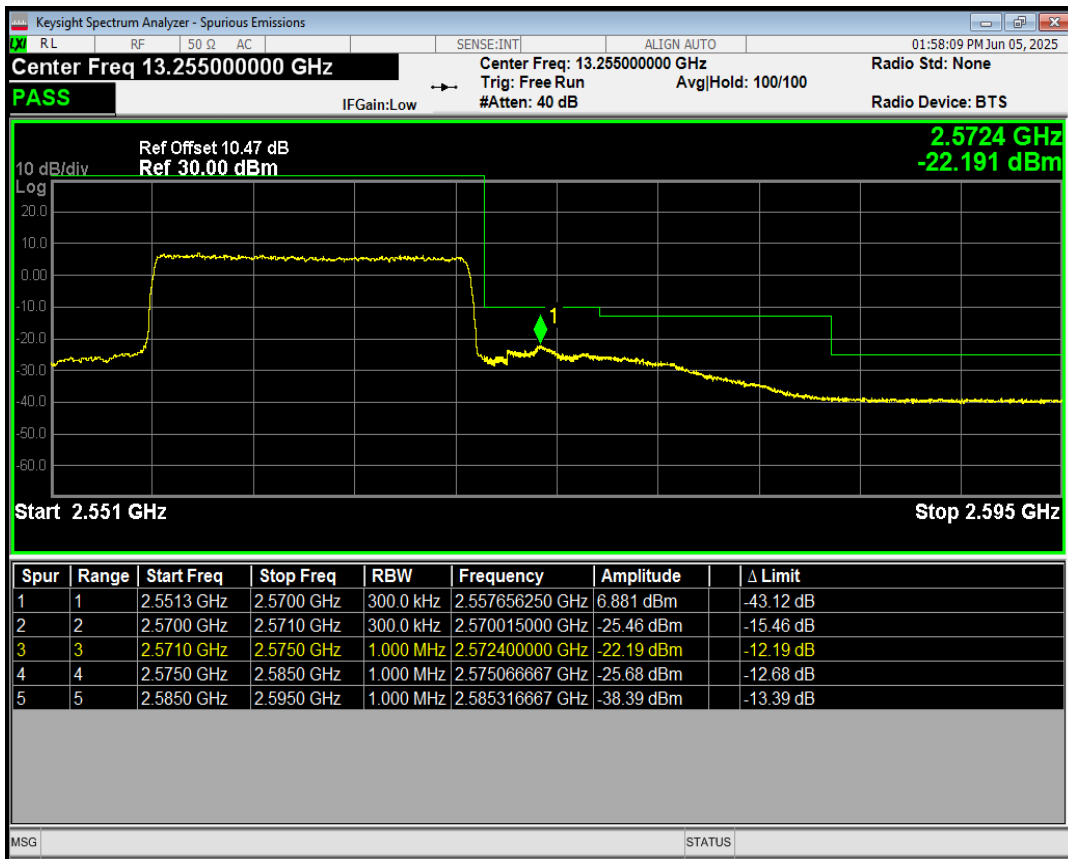
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



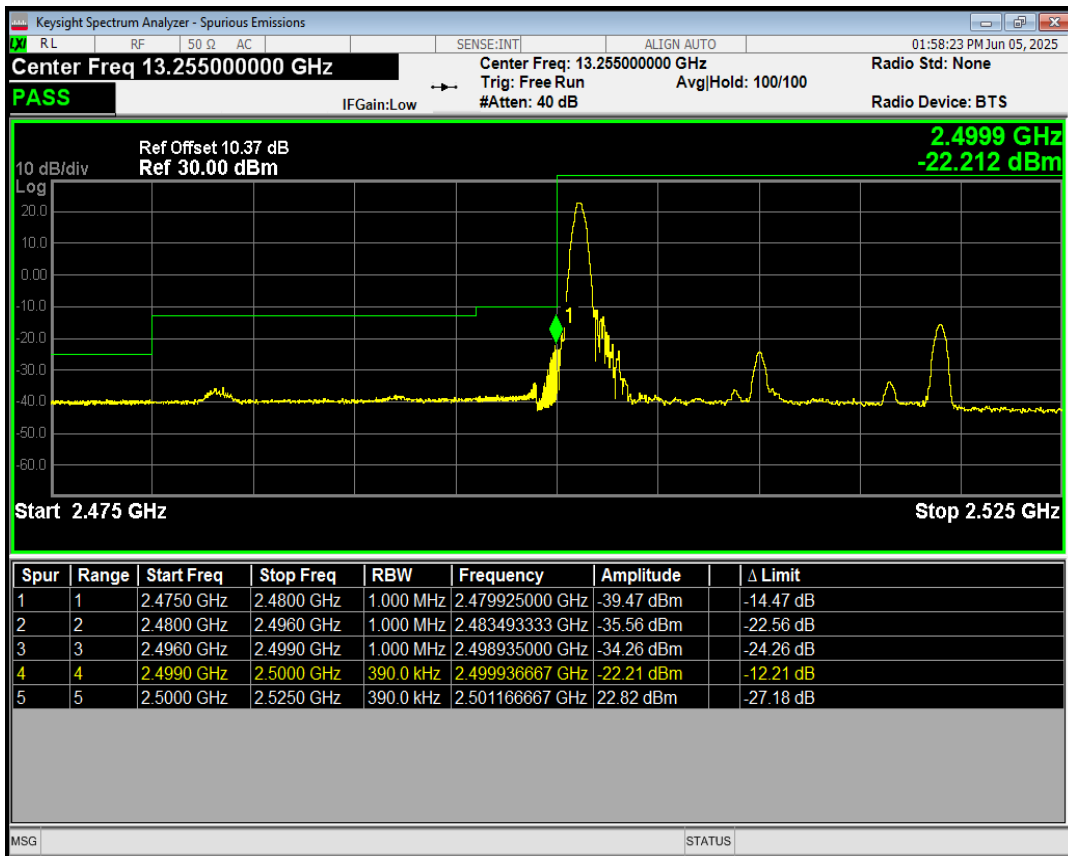
Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0



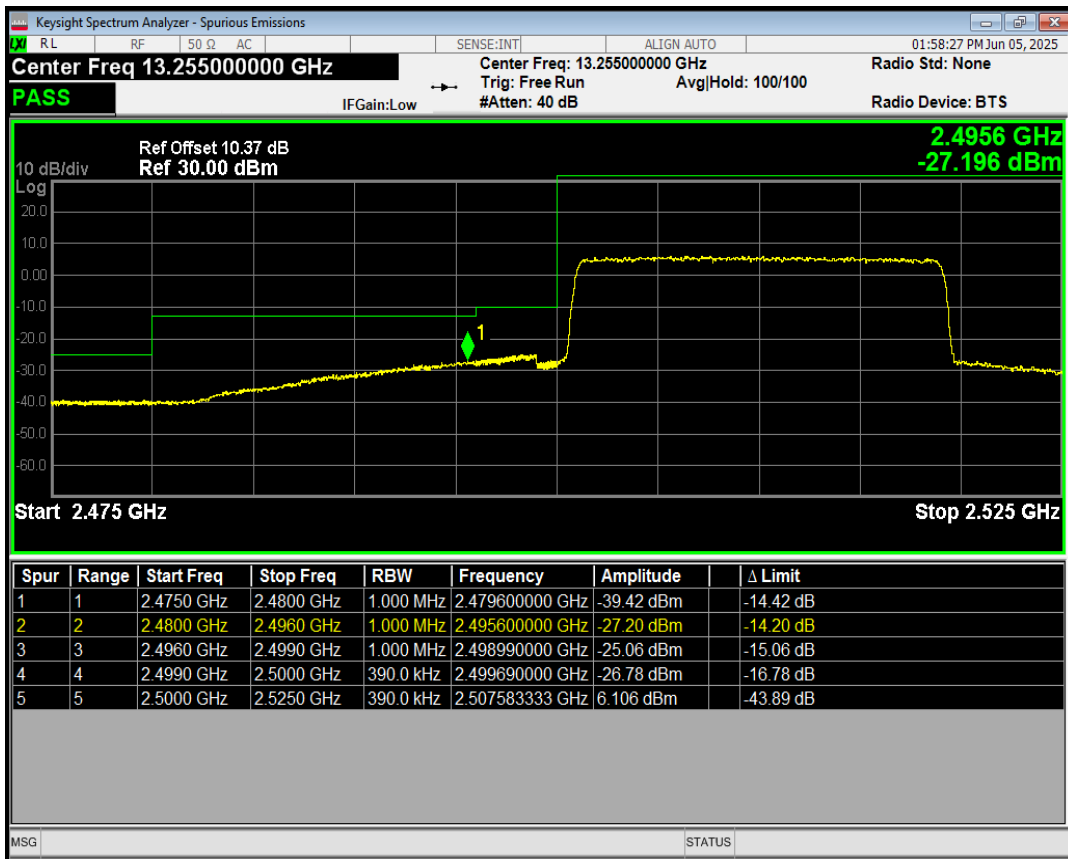
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



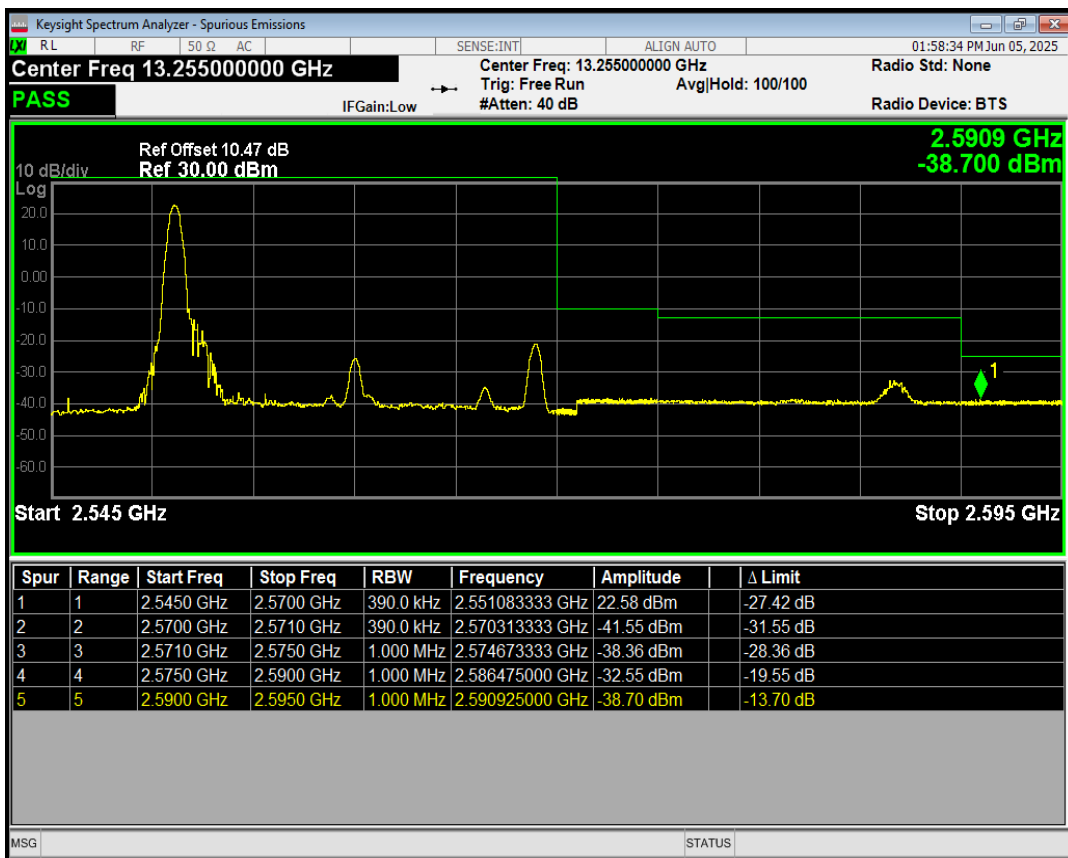
Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0



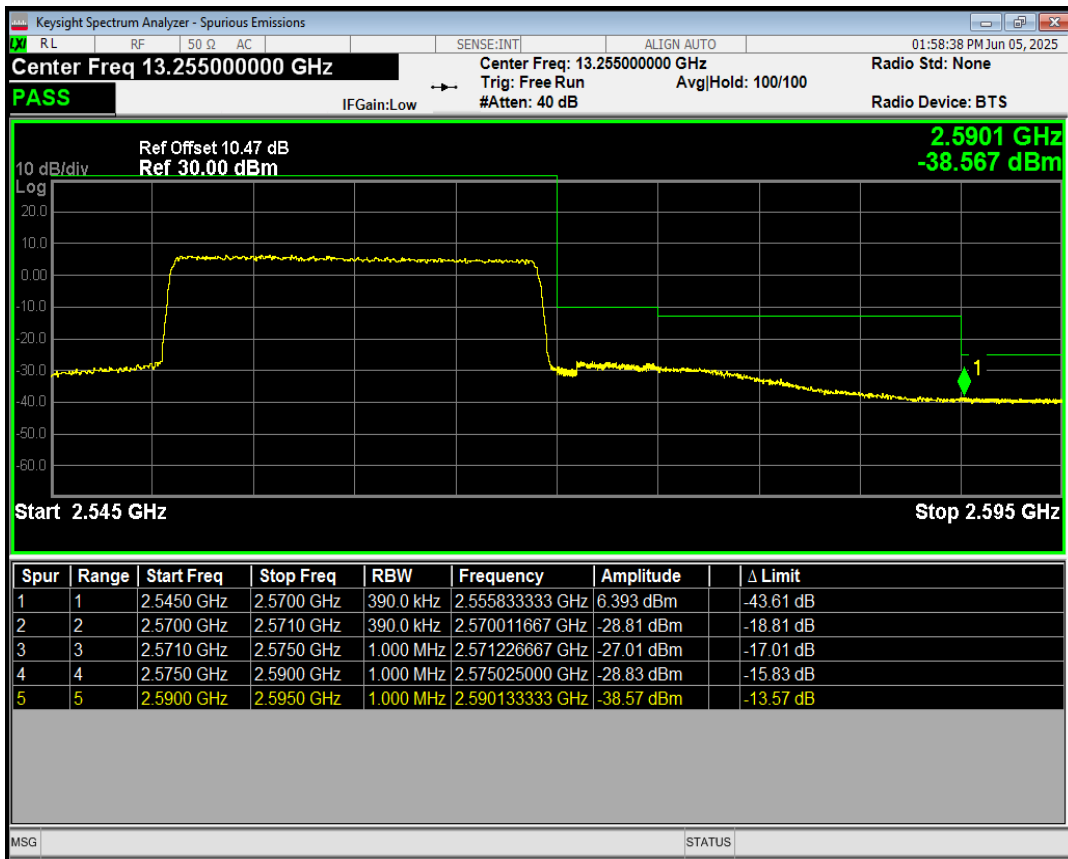
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



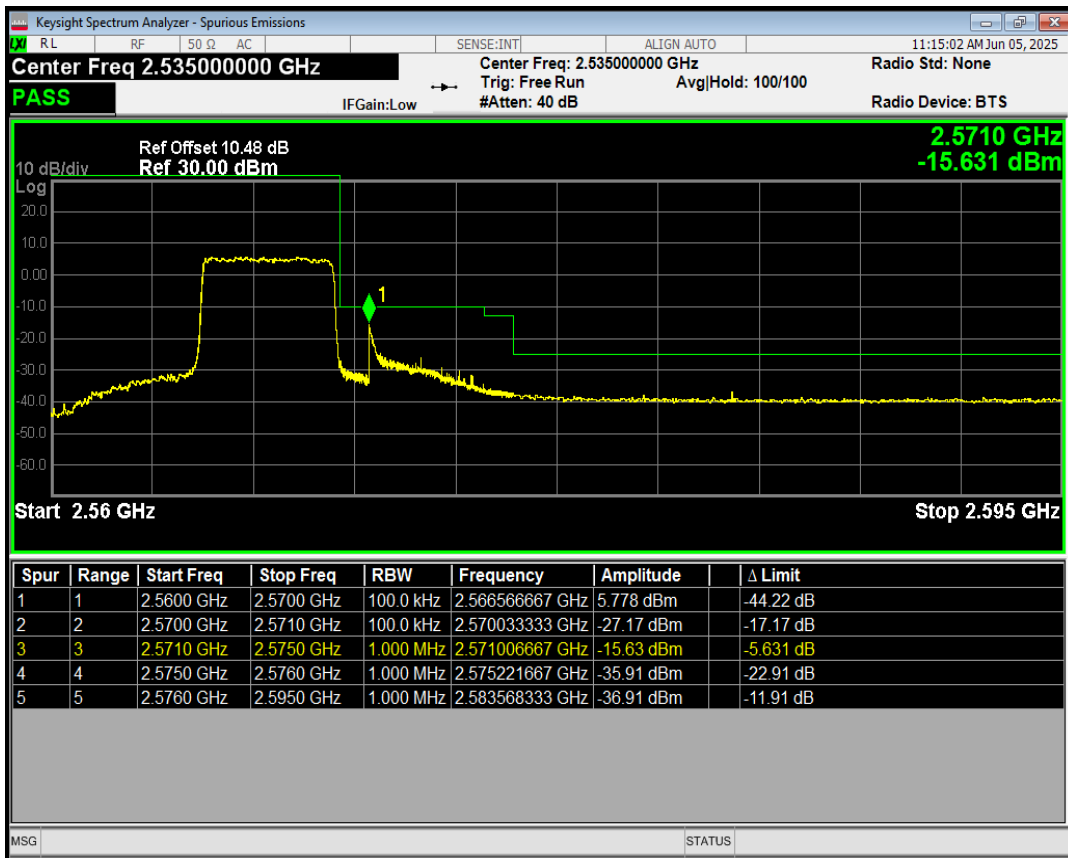
Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



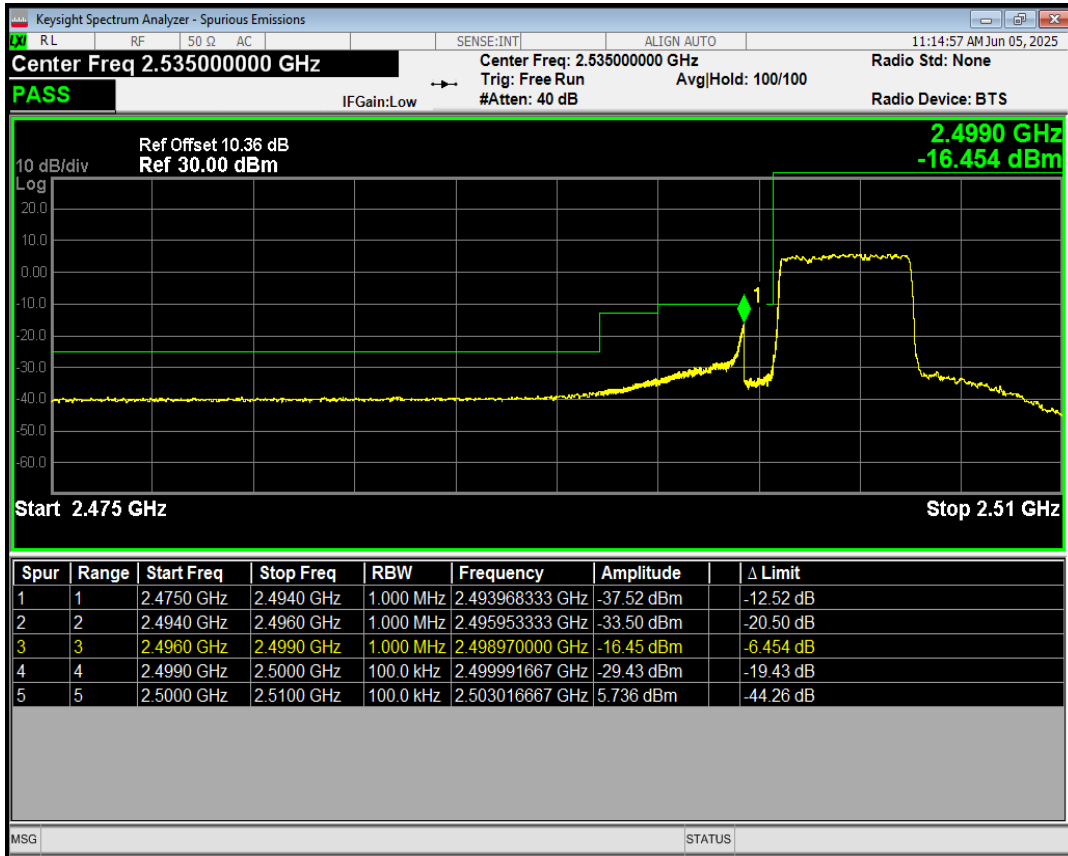
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



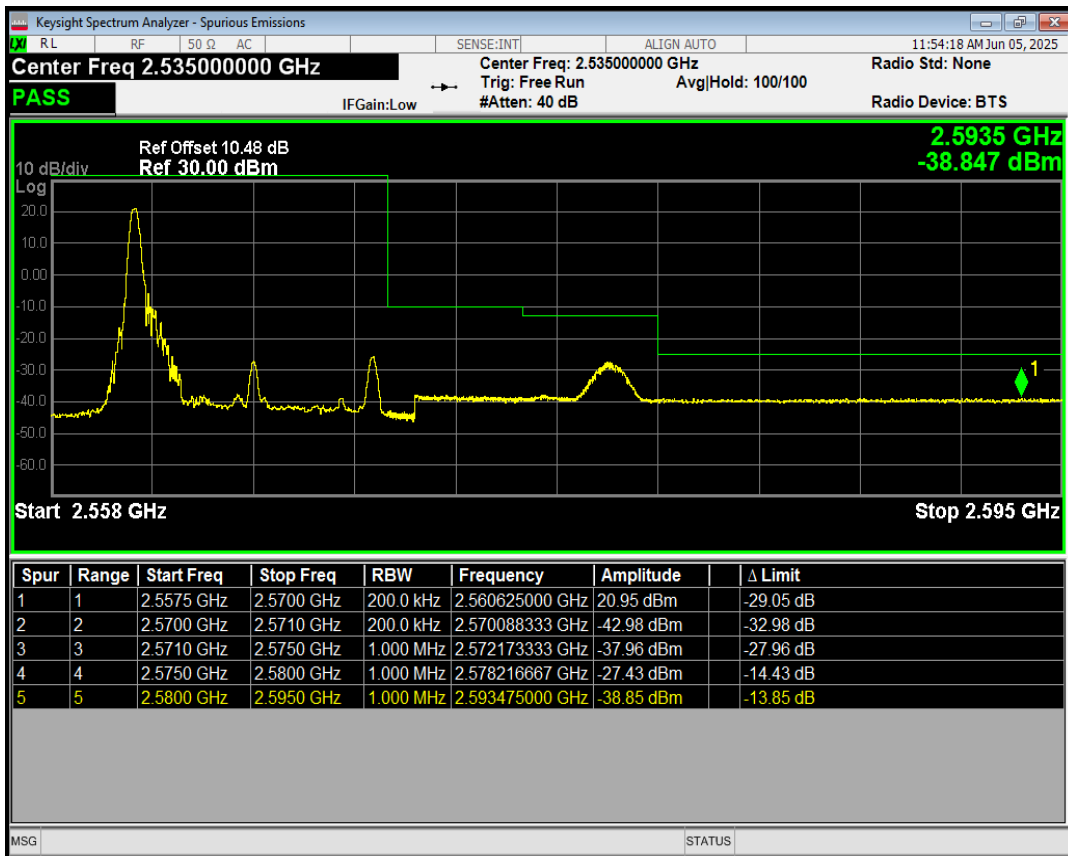
Band7 QAM16 BW=5MHz Channel=21425 RB Size=25 Position=#0



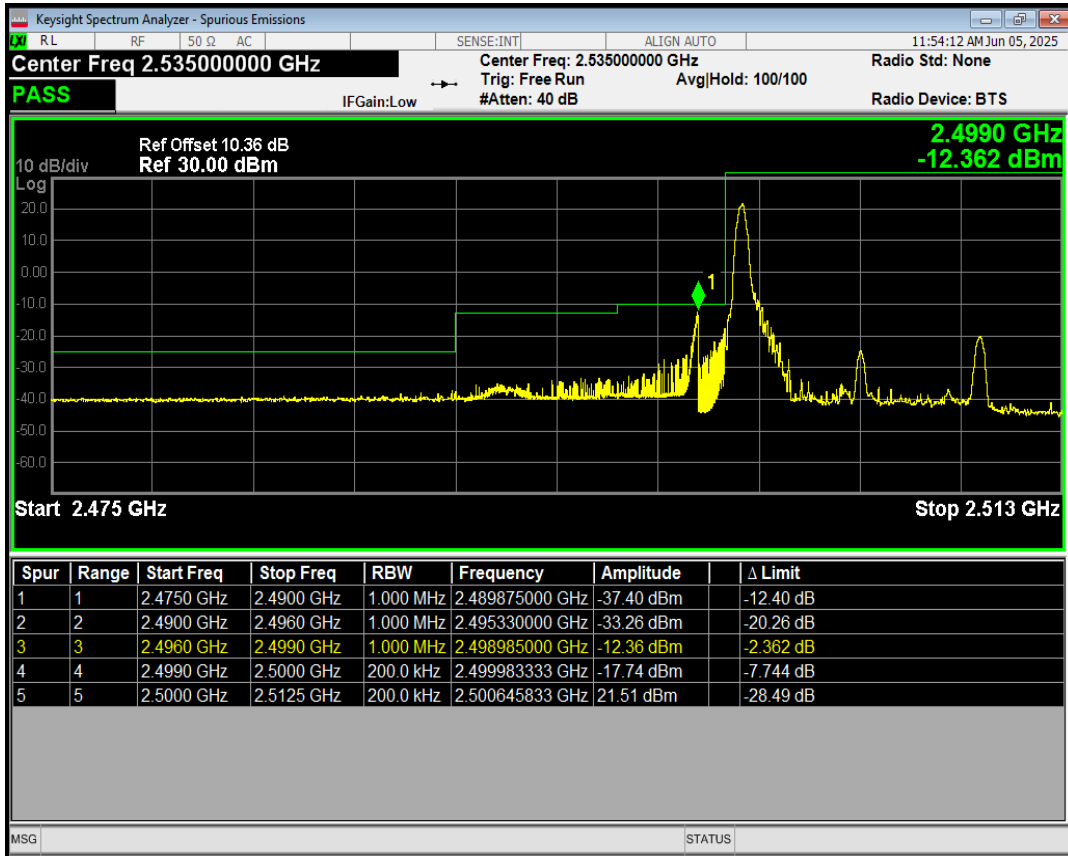
Band7 QAM16 BW=5MHz Channel=20775 RB Size=25 Position=#0



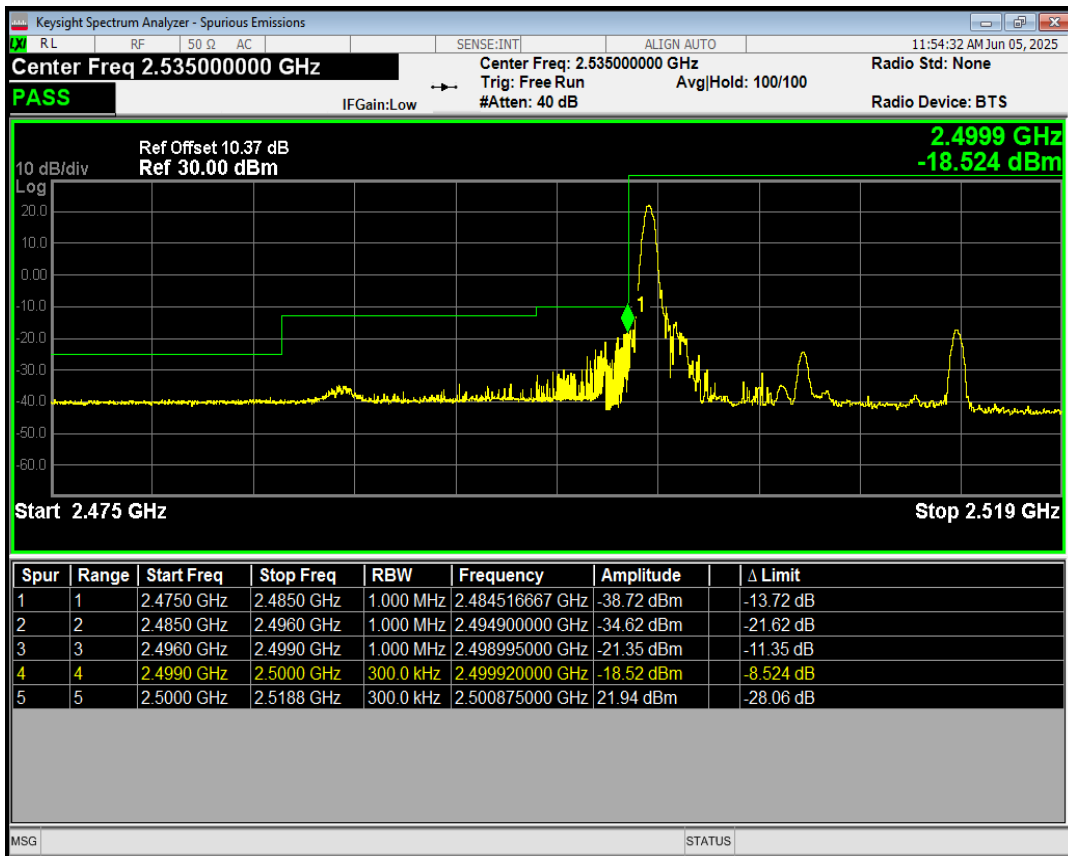
Band7 QAM16 BW=10MHz Channel=21400 RB Size=1 Position=#0



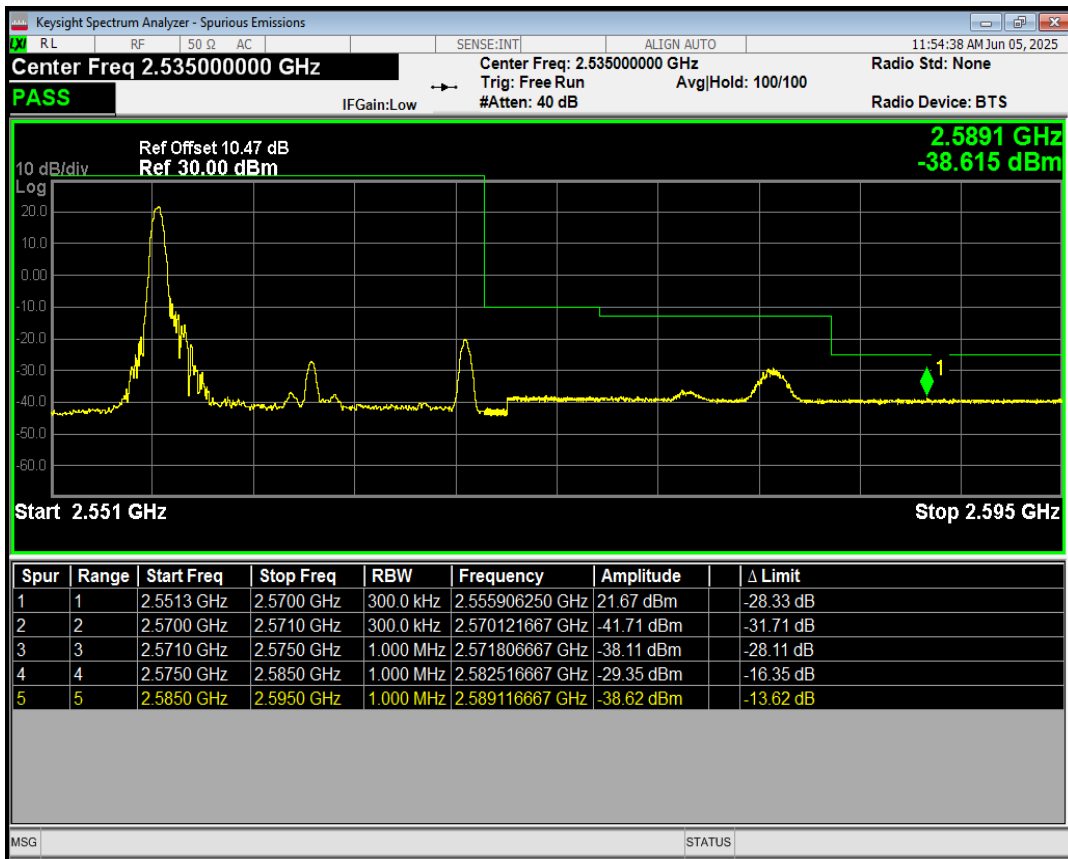
Band7 QAM16 BW=10MHz Channel=20800 RB Size=1 Position=#0



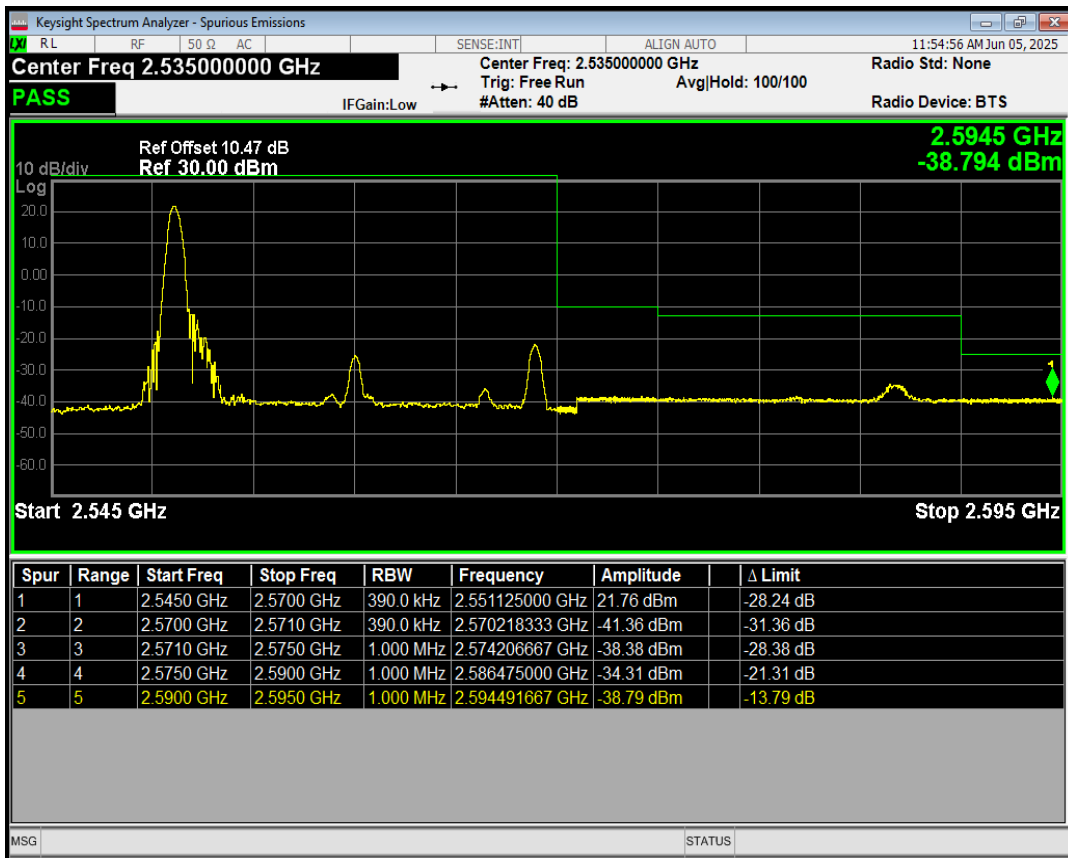
Band7 QAM16 BW=15MHz Channel=20825 RB Size=1 Position=#0



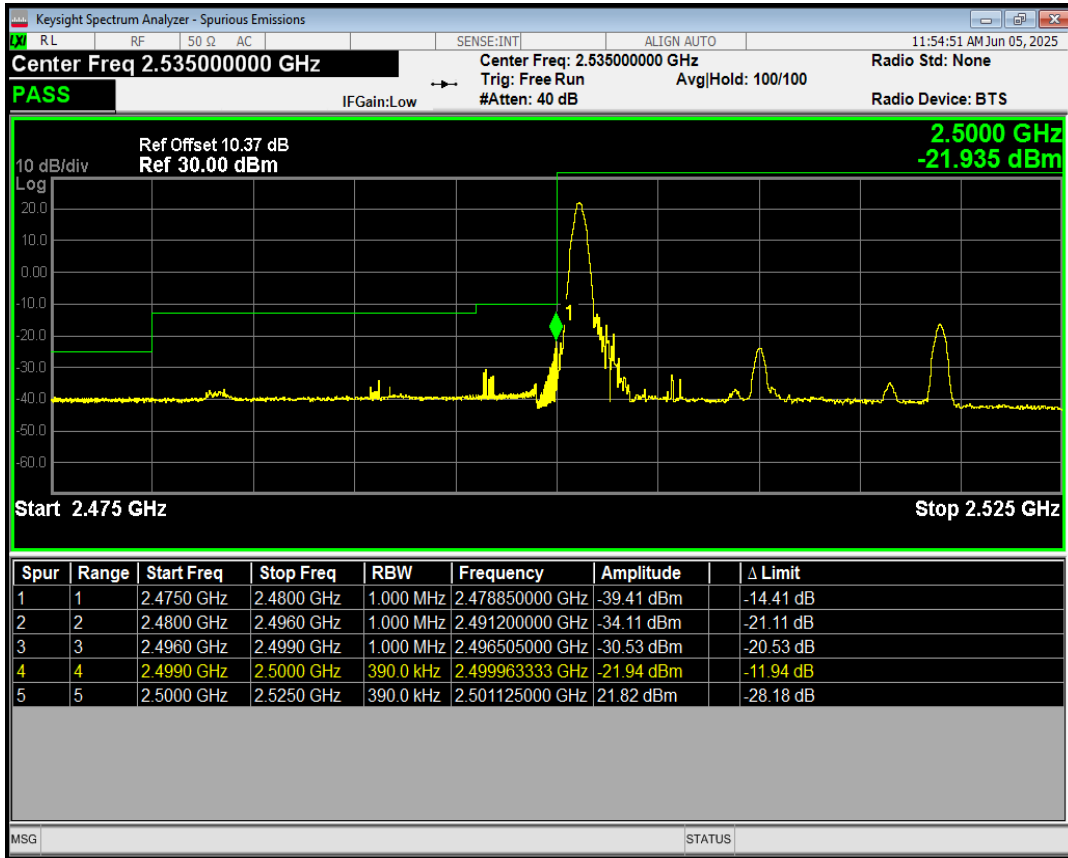
Band7 QAM16 BW=15MHz Channel=21375 RB Size=1 Position=#0



Band7 QAM16 BW=20MHz Channel=21350 RB Size=1 Position=#0



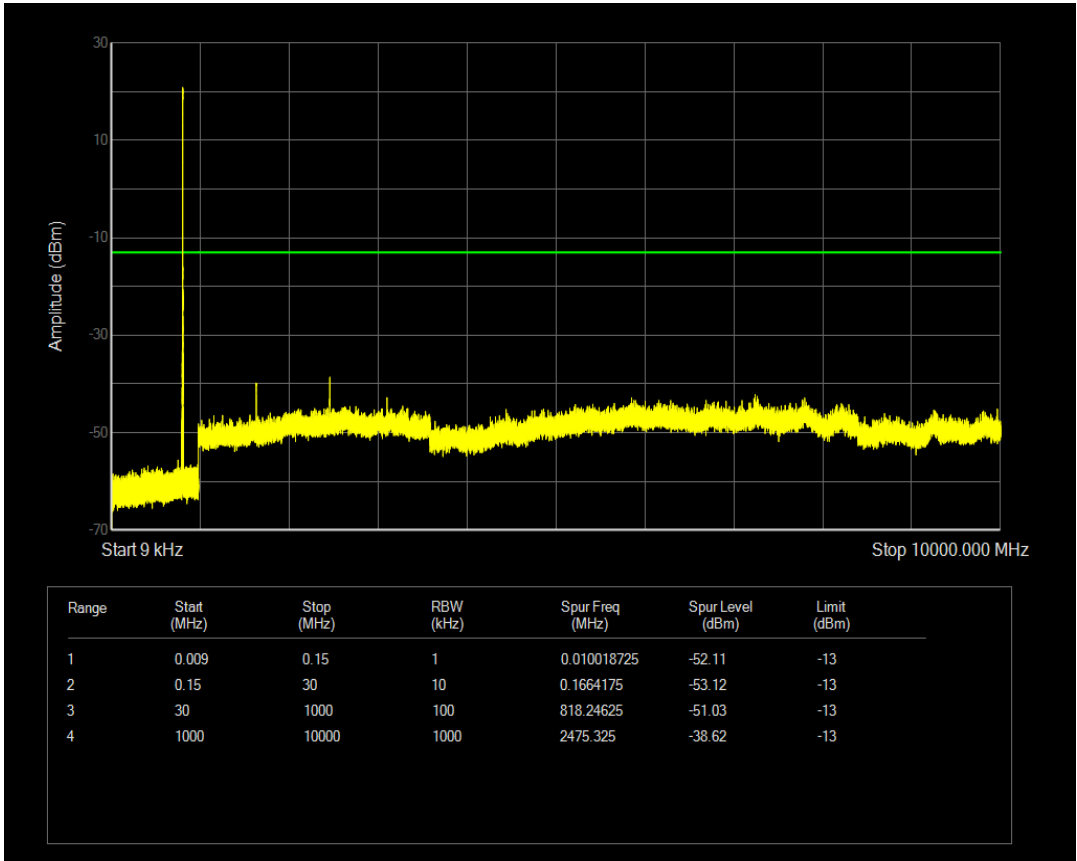
Band7 QAM16 BW=20MHz Channel=20850 RB Size=1 Position=#0



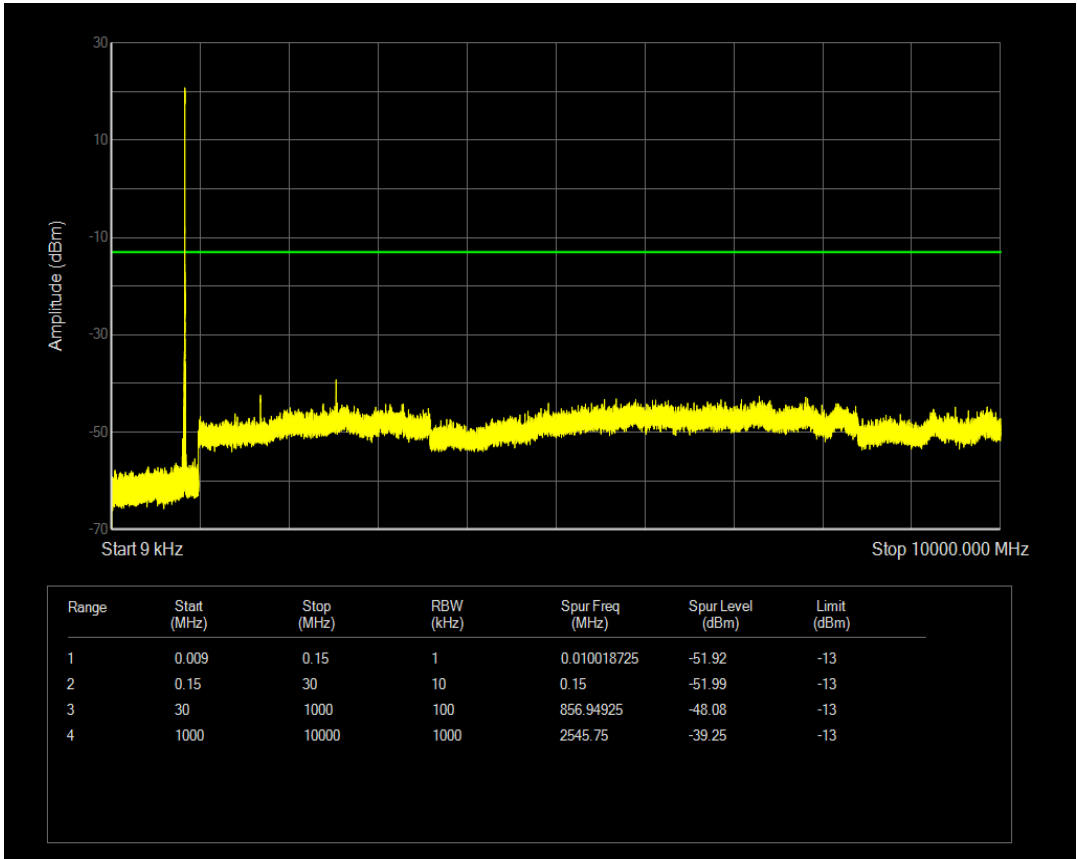
06 Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	2475.33	-38.62	-13	PASS
Band5	1.4	20643	6	#0	QPSK	2545.75	-39.25	-13	PASS
Band5	3	20415	15	#0	QPSK	1649.58	-41.91	-13	PASS
Band5	3	20635	15	#0	QPSK	2542.60	-41.95	-13	PASS
Band5	5	20425	25	#0	QPSK	6691.83	-42.73	-13	PASS
Band5	5	20625	25	#0	QPSK	7757.43	-42.46	-13	PASS
Band5	10	20450	50	#0	QPSK	5860.45	-41.67	-13	PASS
Band5	10	20600	50	#0	QPSK	6185.35	-43.05	-13	PASS
Band5	10	20450	1	#0	QAM16	1649.58	-37.35	-13	PASS
Band5	10	20600	1	#0	QAM16	1679.73	-37.27	-13	PASS
Band7	5	20775	25	#0	QPSK	25550.00	-27.31	-25	PASS
Band7	5	21425	25	#0	QPSK	25938.75	-26.78	-25	PASS
Band7	10	20800	50	#0	QPSK	25992.50	-27.39	-25	PASS
Band7	10	21400	50	#0	QPSK	25967.50	-27.21	-25	PASS
Band7	15	20825	75	#0	QPSK	25943.13	-26.50	-25	PASS
Band7	15	21375	75	#0	QPSK	25956.25	-26.93	-25	PASS
Band7	20	20850	100	#0	QPSK	25449.38	-27.16	-25	PASS
Band7	20	21350	100	#0	QPSK	25941.88	-26.45	-25	PASS
Band7	10	20800	1	#0	QAM16	25946.25	-26.95	-25	PASS
Band7	10	21400	1	#0	QAM16	25910.63	-26.68	-25	PASS
Band7	15	20825	1	#0	QAM16	25561.25	-25.73	-25	PASS
Band7	15	21375	1	#0	QAM16	25937.50	-27.43	-25	PASS
Band7	20	20850	1	#0	QAM16	25462.50	-27.13	-25	PASS
Band7	20	21350	1	#0	QAM16	25930.63	-26.94	-25	PASS

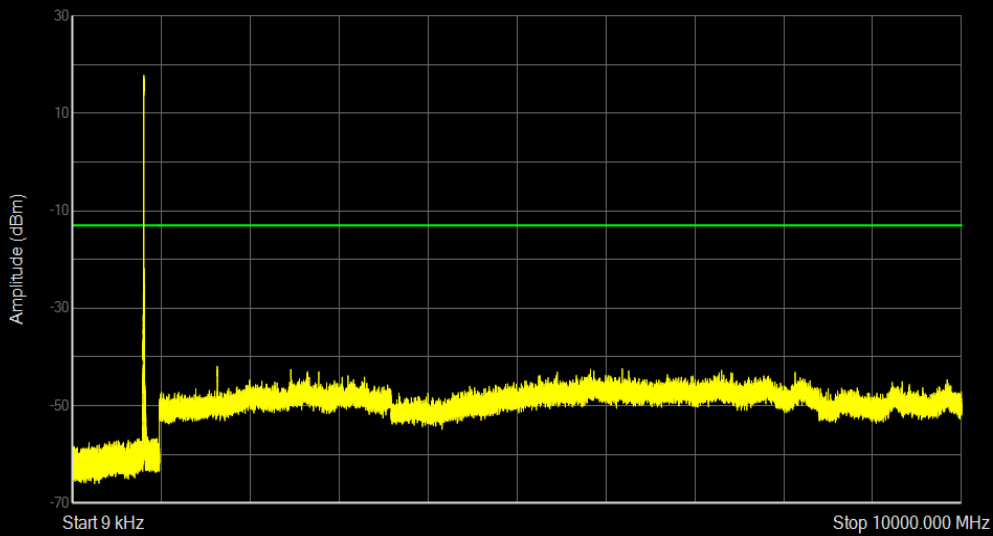
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0

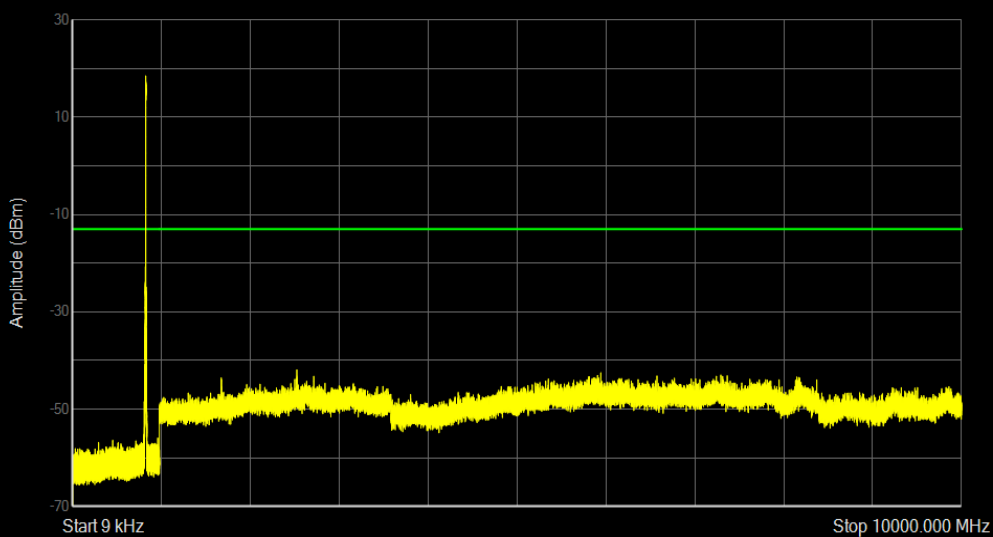


Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



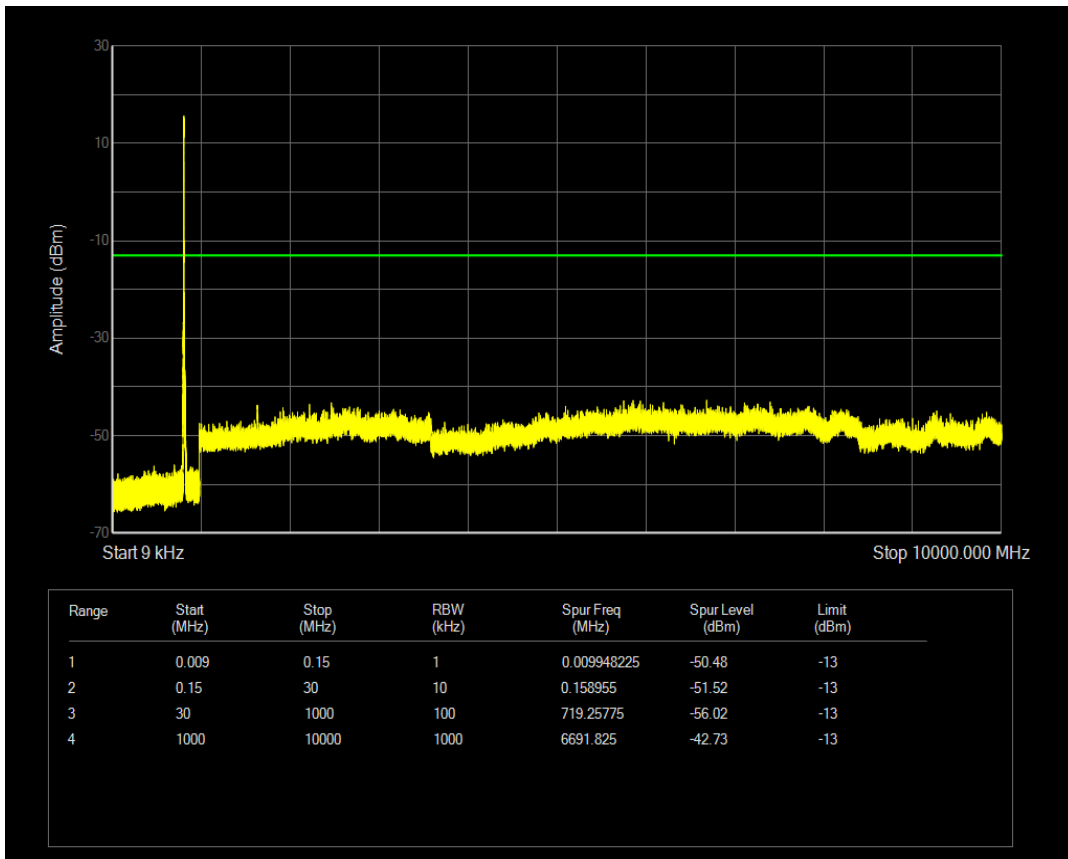
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00966975	-51.8	-13
2	0.15	30	10	0.16268625	-51.98	-13
3	30	1000	100	867.1585	-56.39	-13
4	1000	10000	1000	1649.575	-41.91	-13

Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0

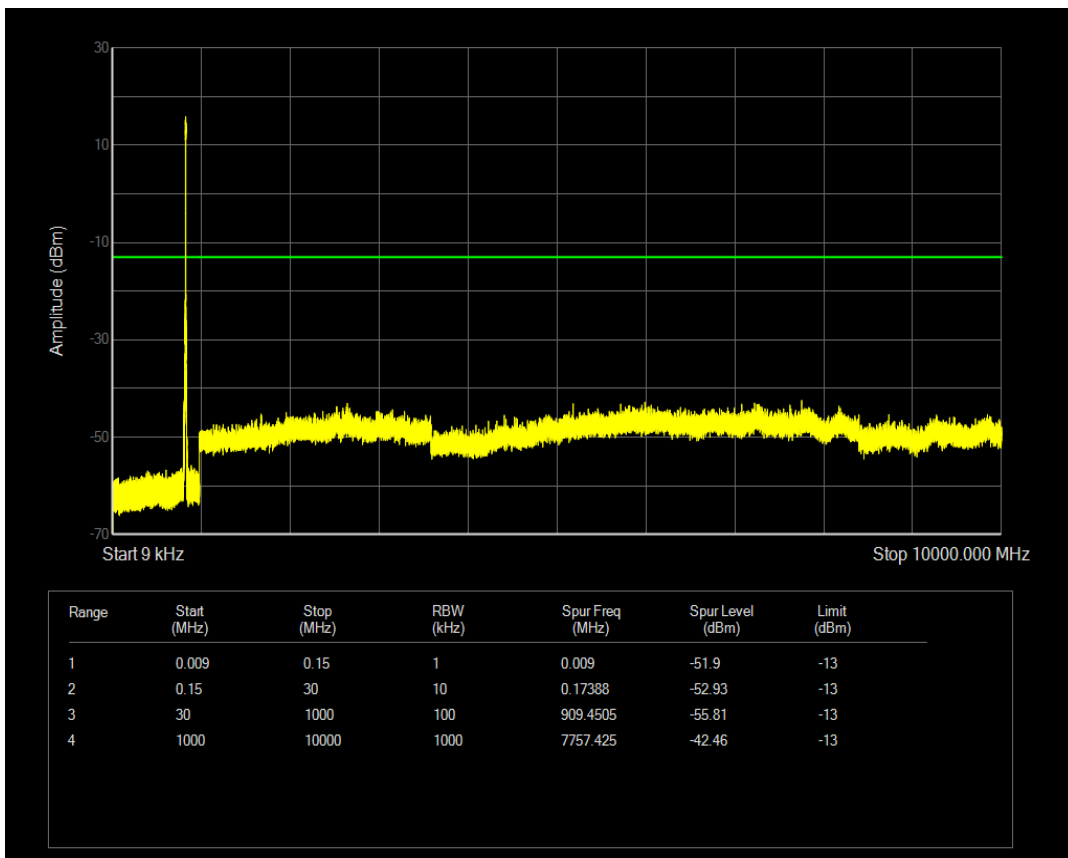


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-50.73	-13
2	0.15	30	10	0.1514925	-51.56	-13
3	30	1000	100	981.73975	-55.97	-13
4	1000	10000	1000	2542.6	-41.95	-13

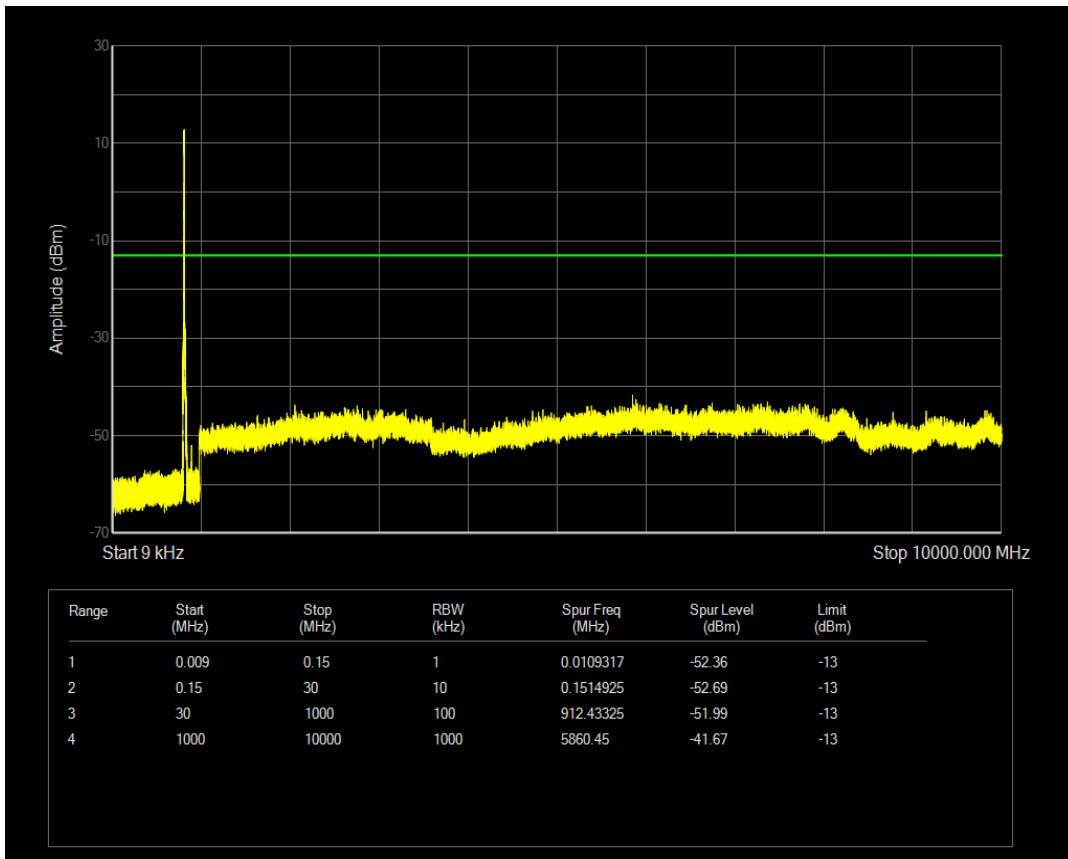
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



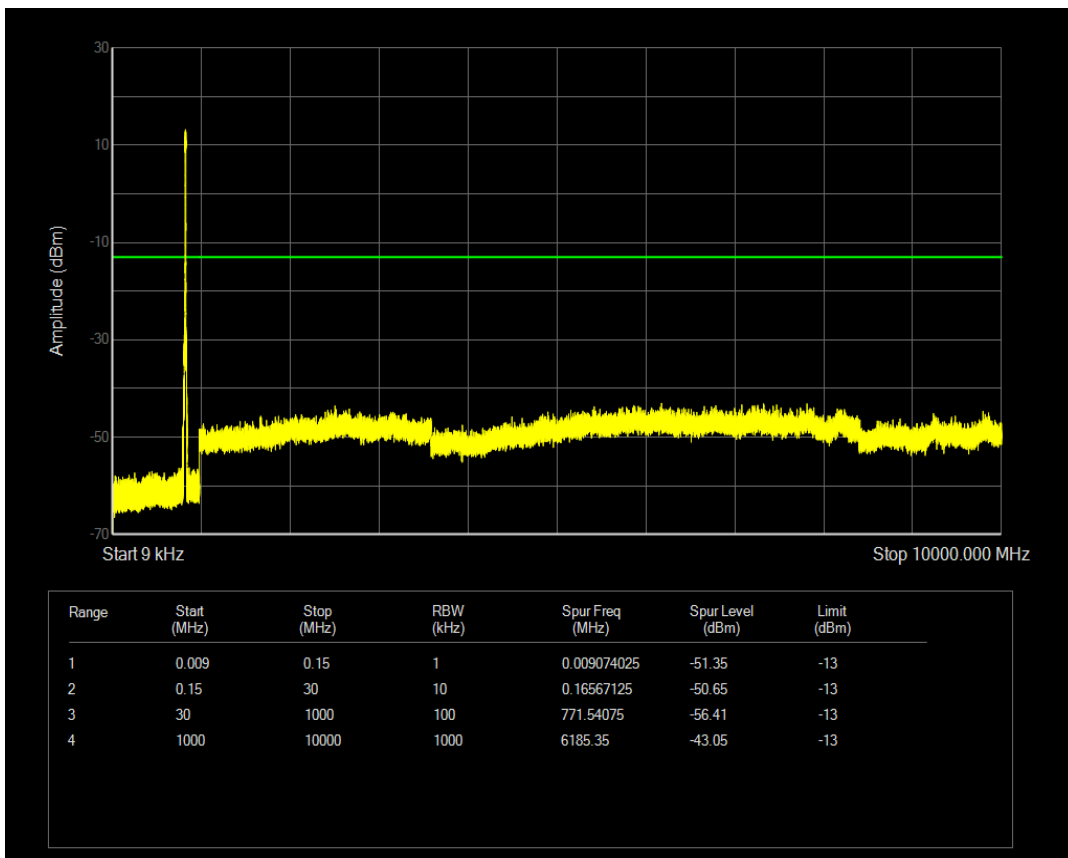
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



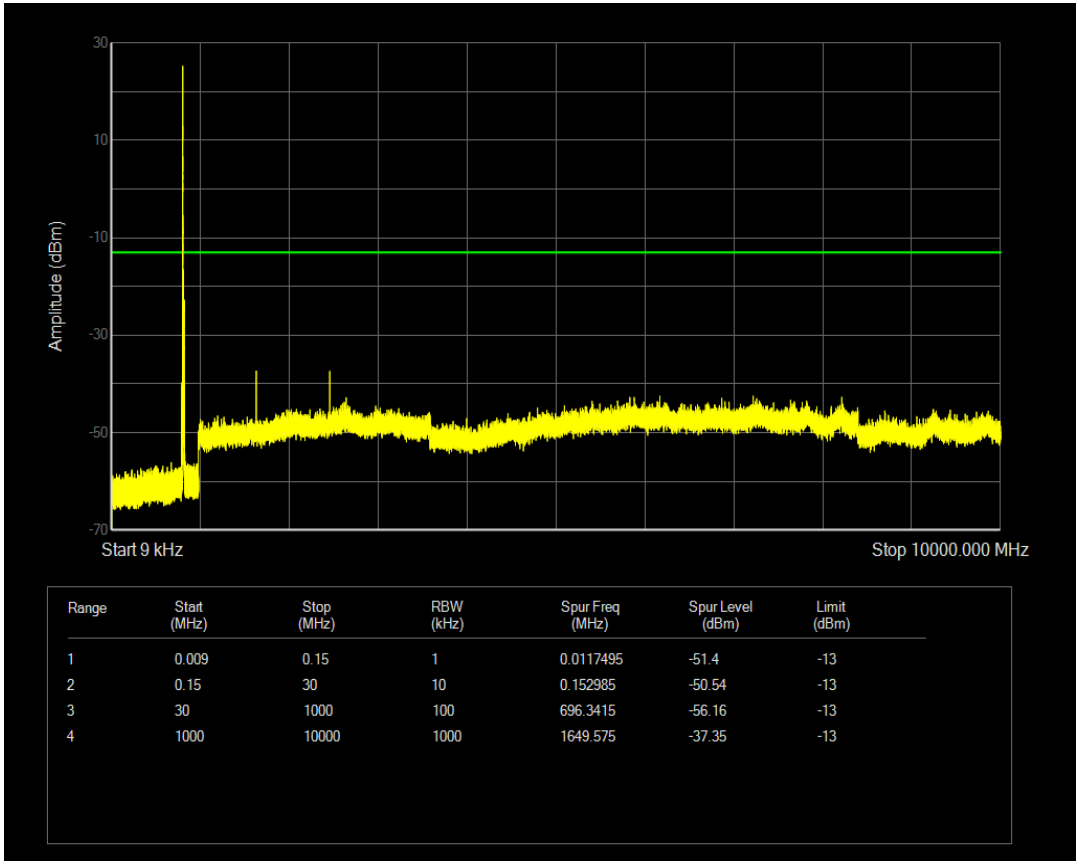
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



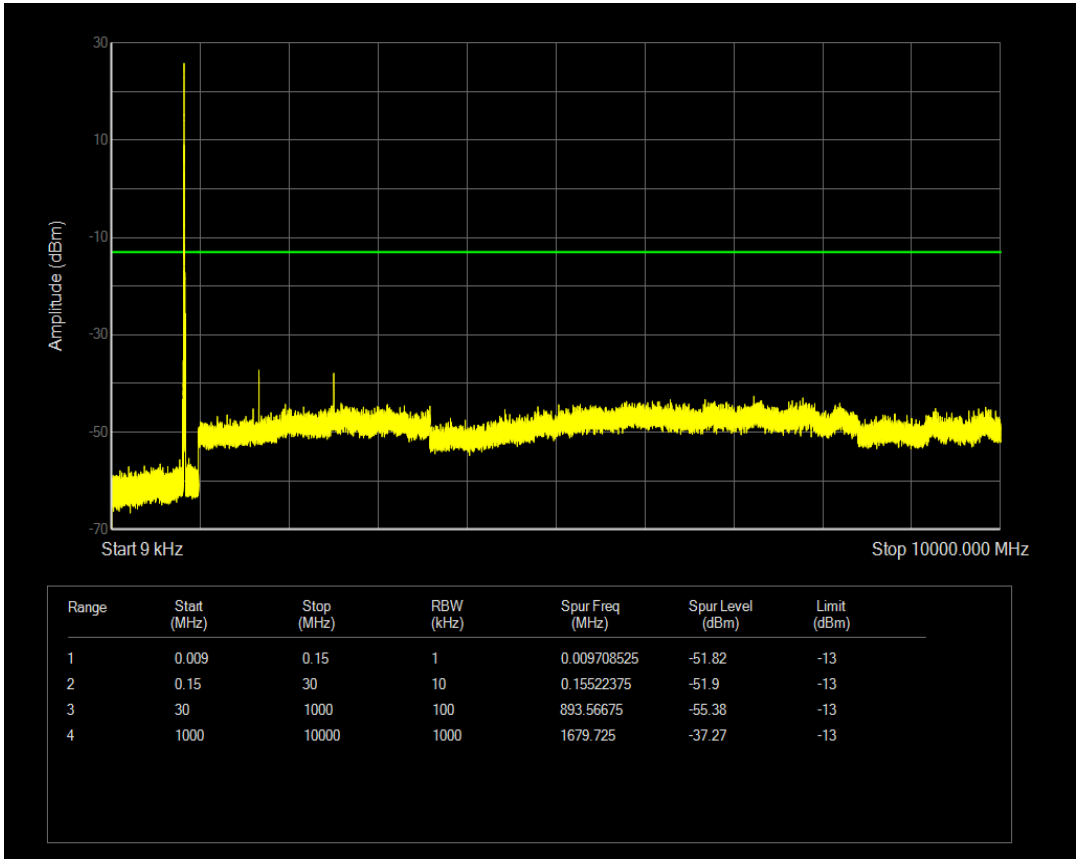
Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0



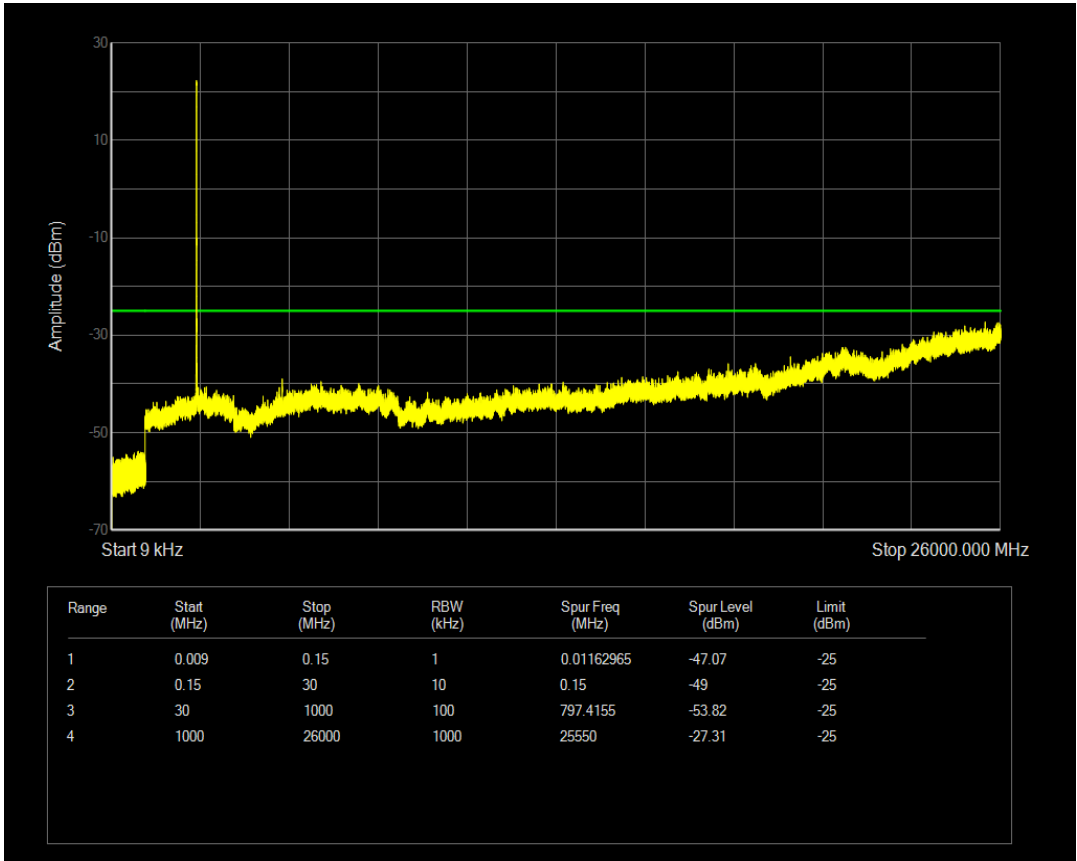
Band5 QAM16 BW=10MHz Channel=20450 RB Size=1 Position=#0



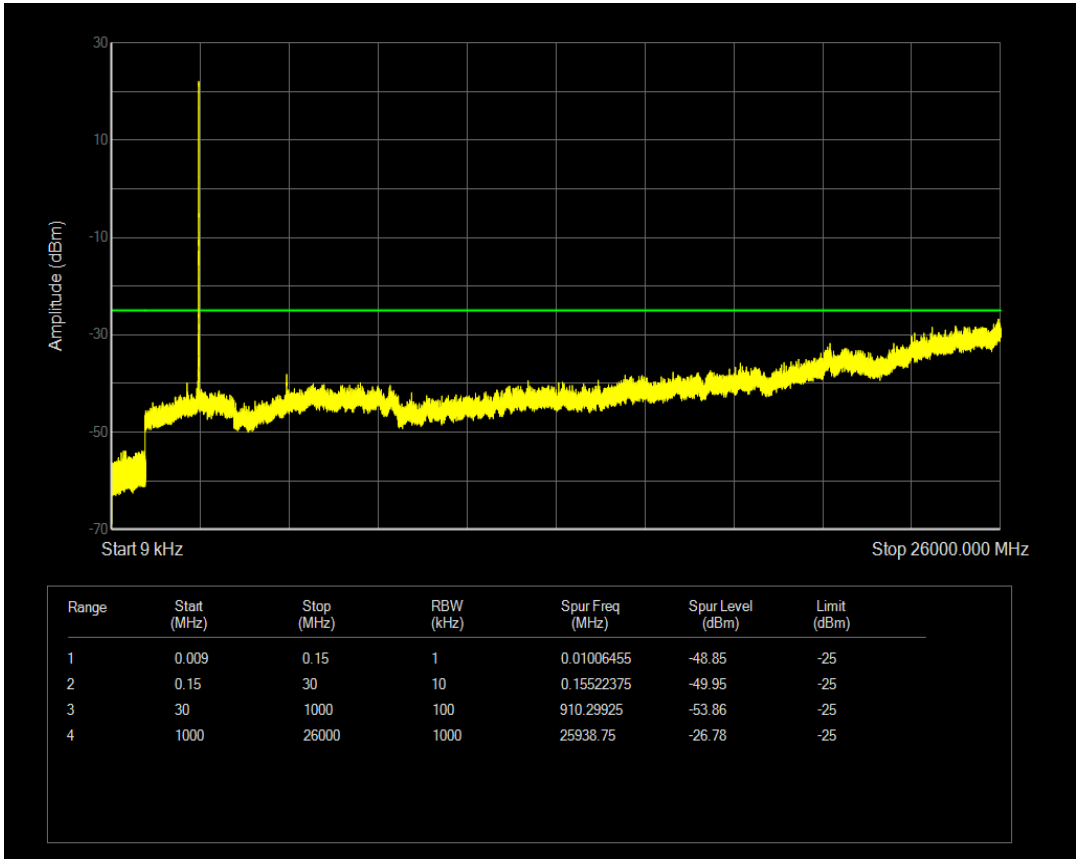
Band5 QAM16 BW=10MHz Channel=20600 RB Size=1 Position=#0



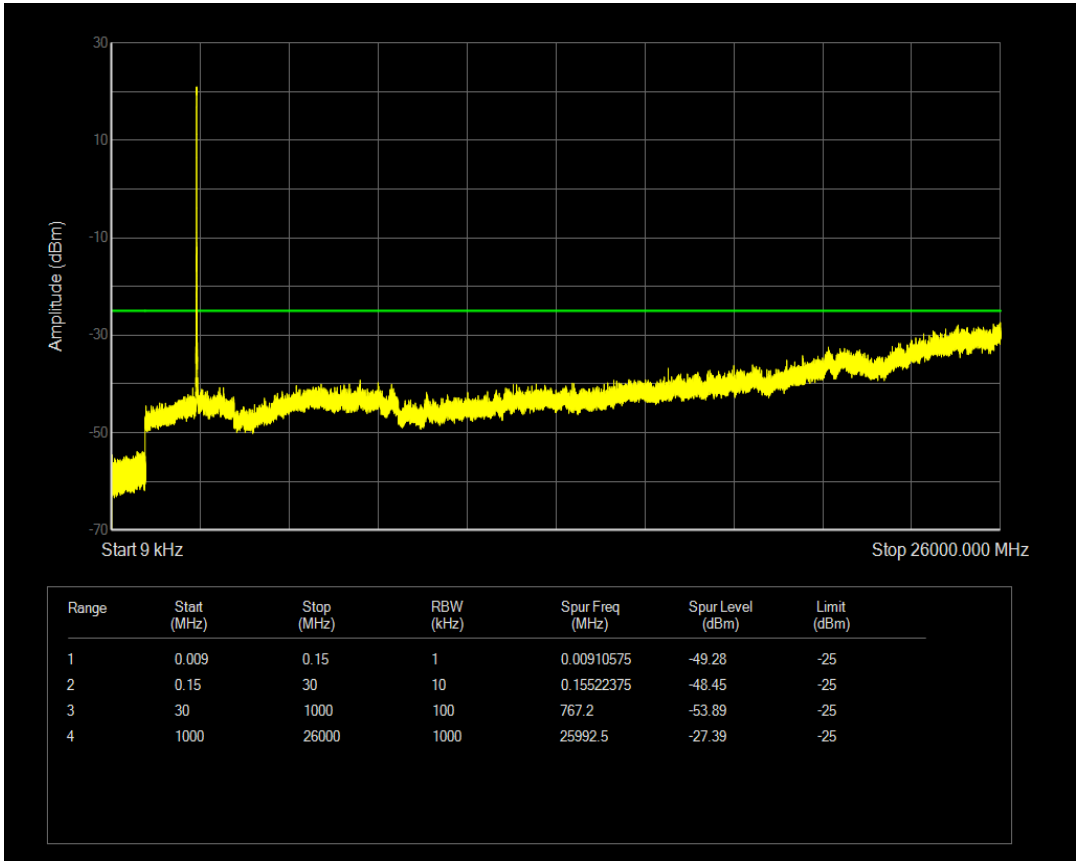
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



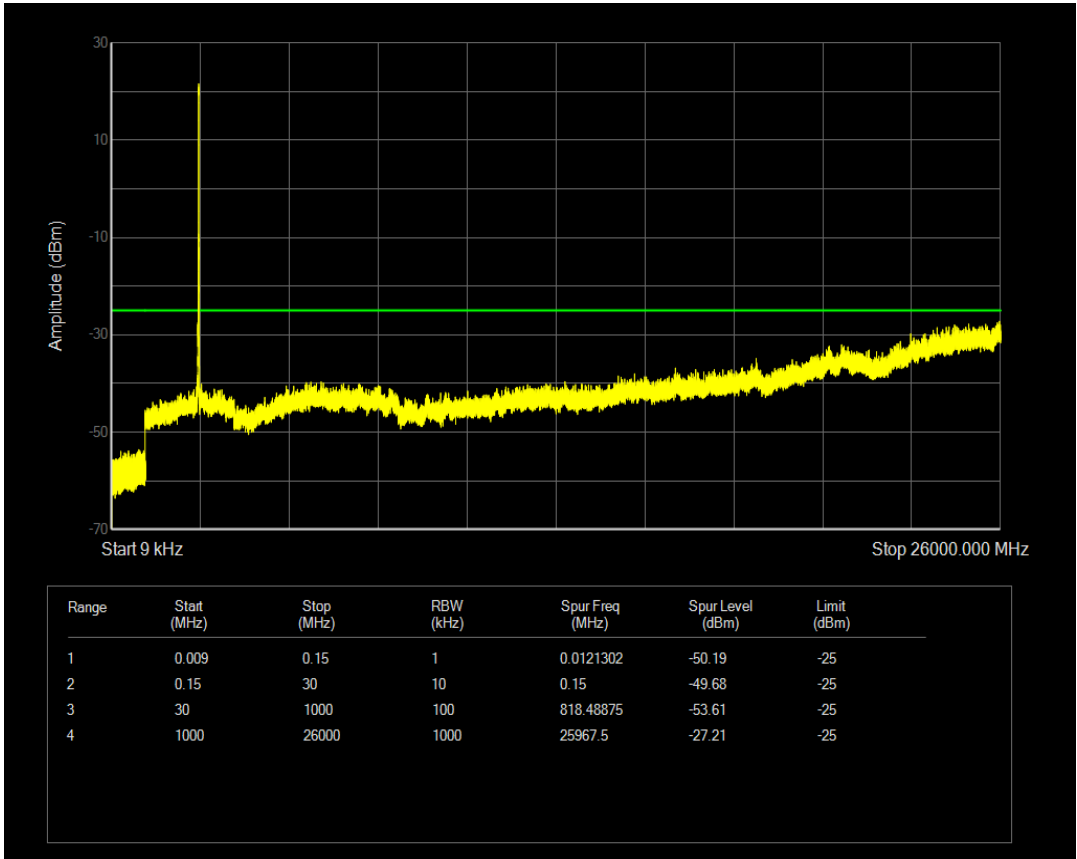
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



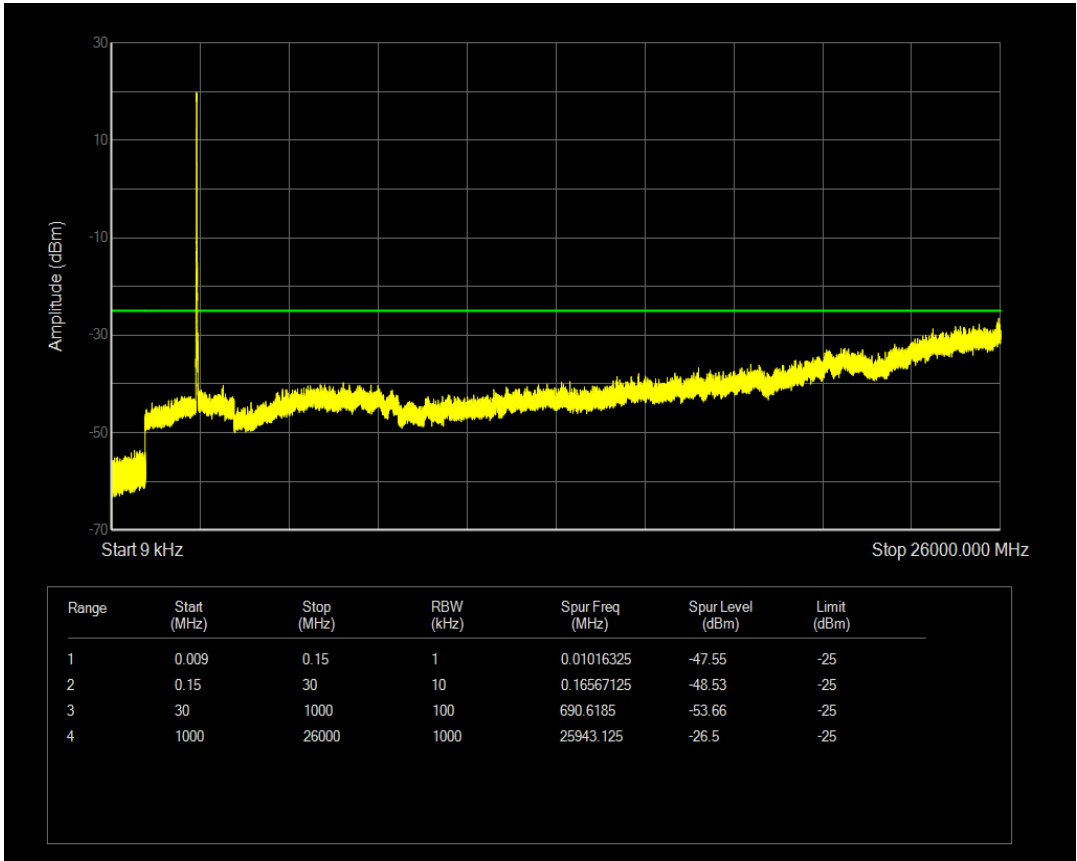
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



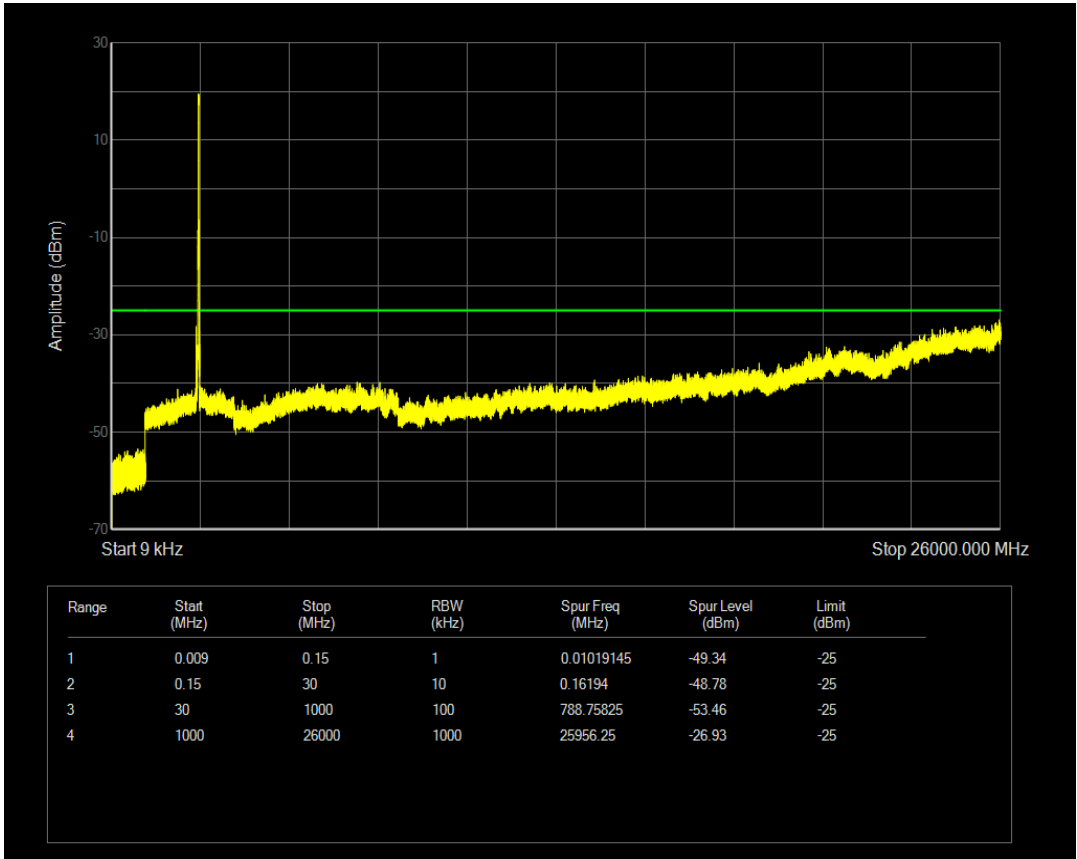
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



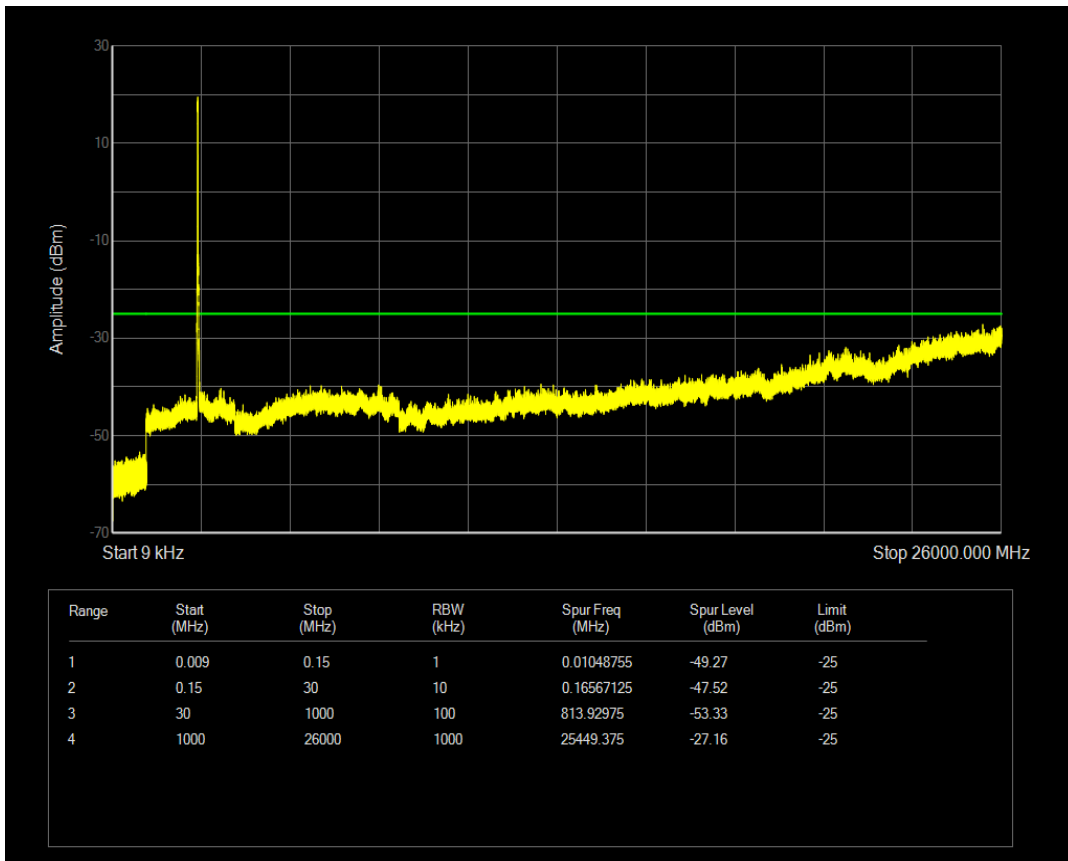
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



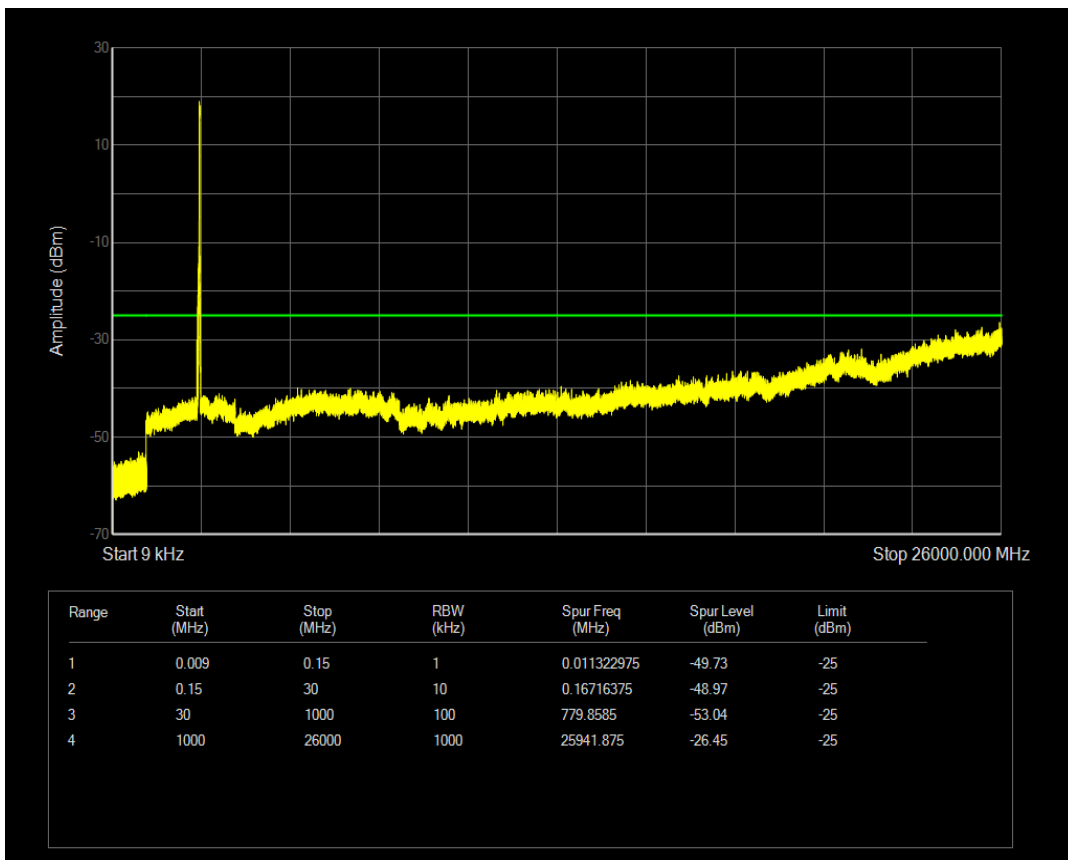
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



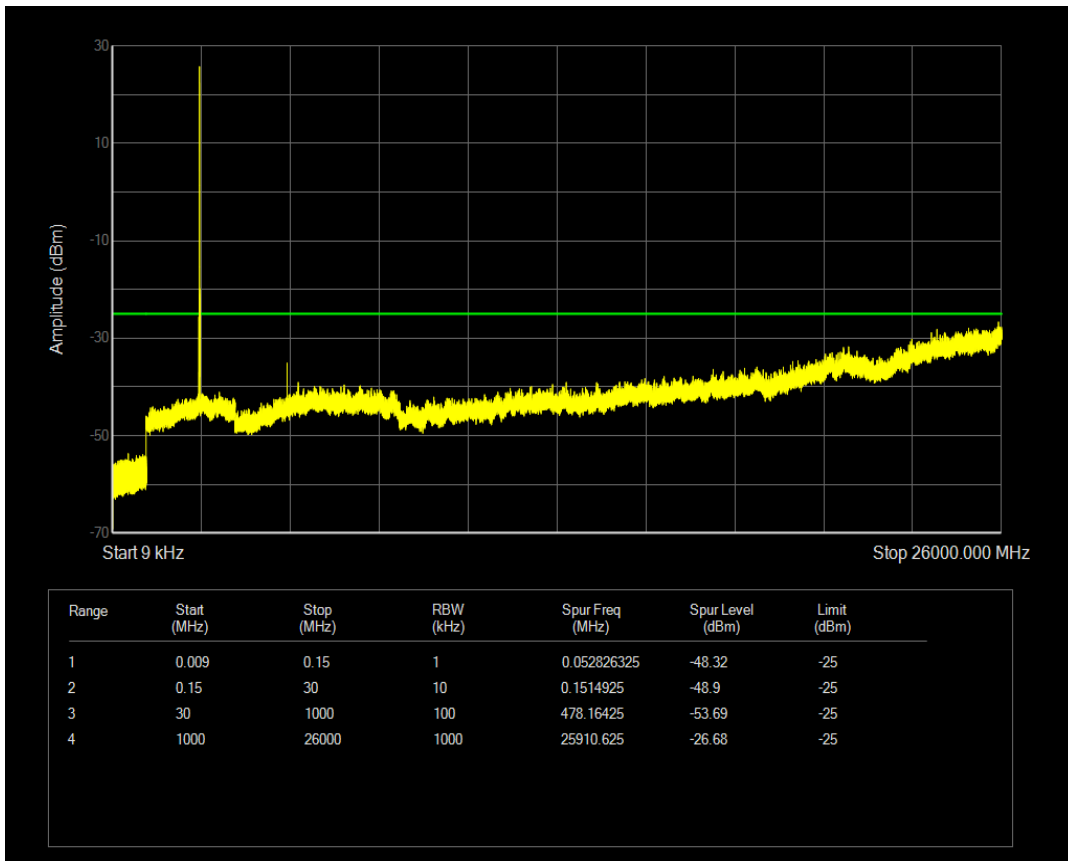
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



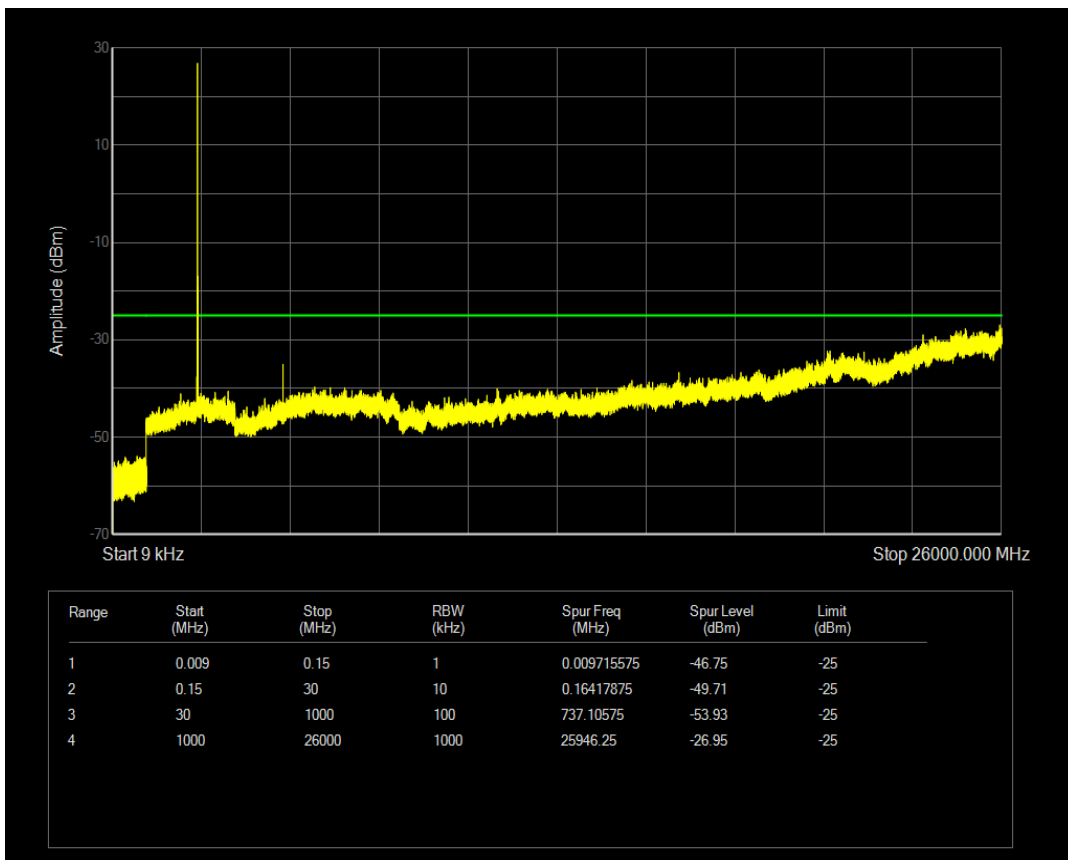
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



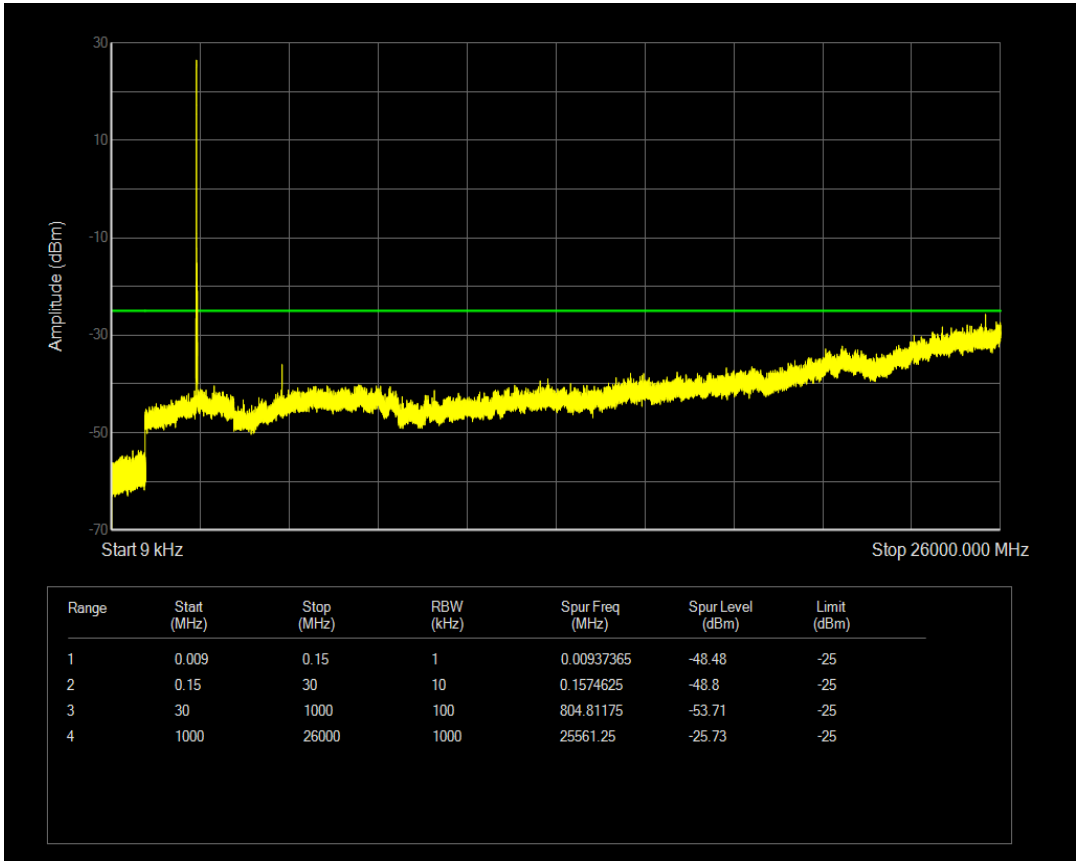
Band7 QAM16 BW=10MHz Channel=21400 RB Size=1 Position=#0



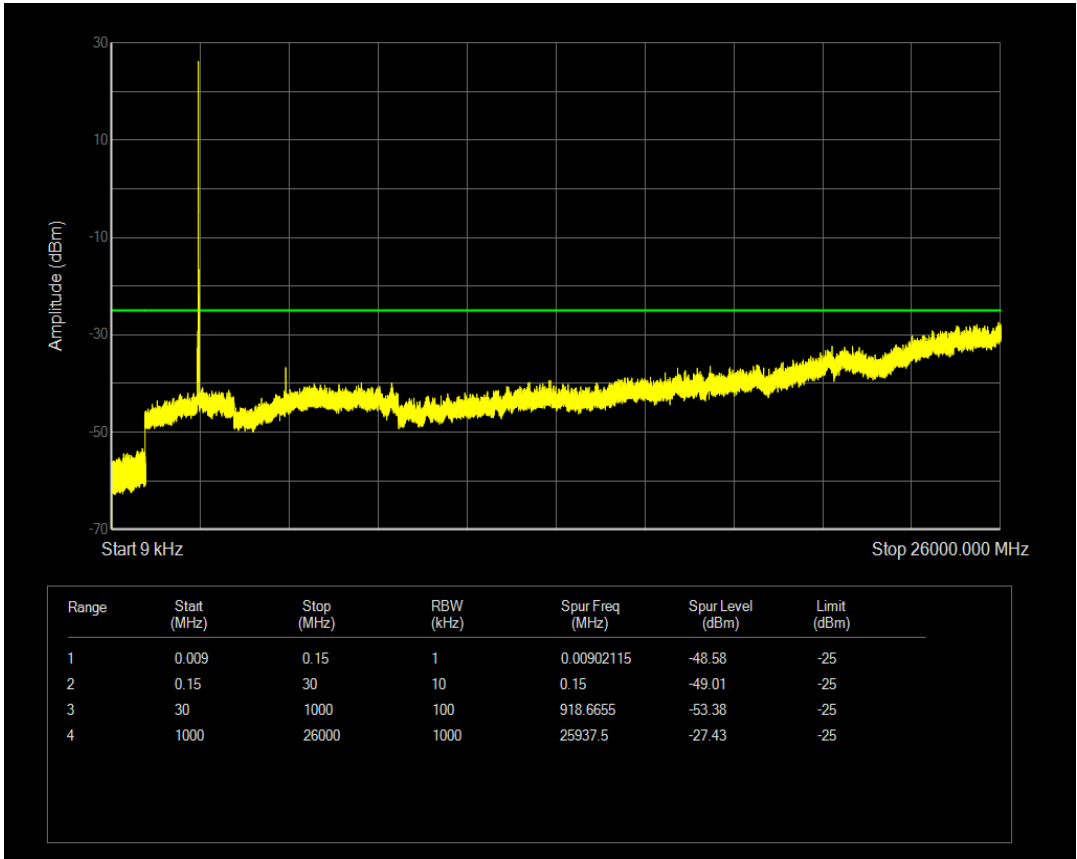
Band7 QAM16 BW=10MHz Channel=20800 RB Size=1 Position=#0



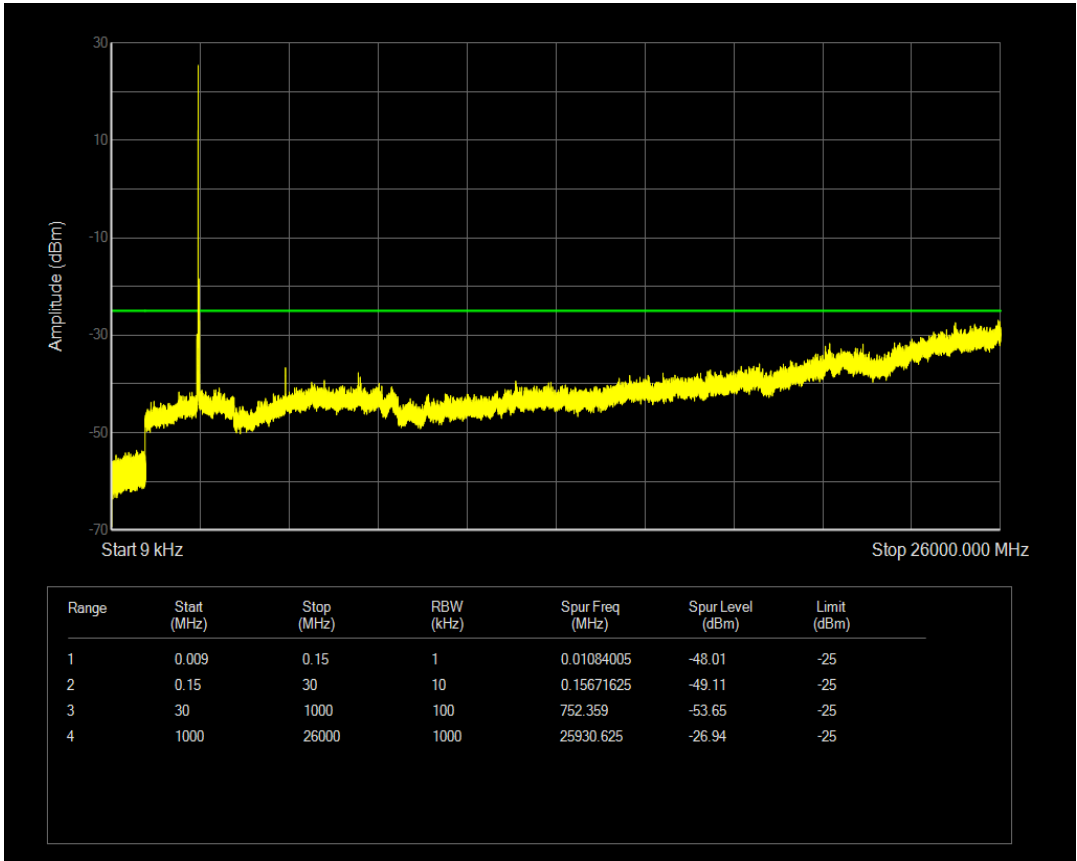
Band7 QAM16 BW=15MHz Channel=20825 RB Size=1 Position=#0



Band7 QAM16 BW=15MHz Channel=21375 RB Size=1 Position=#0



Band7 QAM16 BW=20MHz Channel=21350 RB Size=1 Position=#0



Band7 QAM16 BW=20MHz Channel=20850 RB Size=1 Position=#0

