

## Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
30	10.0	27710	2310.0	QPSK	1@0	see graph	PASS
30	10.0	27710	2310.0	QPSK	1@49	see graph	PASS
30	10.0	27710	2310.0	QPSK	50@0_left	see graph	PASS
30	10.0	27710	2310.0	QPSK	50@0_right	see graph	PASS
30	10.0	27710	2310.0	16QAM	1@0	see graph	PASS
30	10.0	27710	2310.0	16QAM	1@49	see graph	PASS
30	10.0	27710	2310.0	16QAM	50@0_left	see graph	PASS
30	10.0	27710	2310.0	16QAM	50@0_right	see graph	PASS
30	5.0	27685	2307.5	QPSK	1@0	see graph	PASS
30	5.0	27685	2307.5	QPSK	25@0	see graph	PASS
30	5.0	27685	2307.5	16QAM	1@0	see graph	PASS
30	5.0	27685	2307.5	16QAM	25@0	see graph	PASS
30	5.0	27735	2312.5	QPSK	1@24	see graph	PASS
30	5.0	27735	2312.5	QPSK	25@0	see graph	PASS
30	5.0	27735	2312.5	16QAM	1@24	see graph	PASS
30	5.0	27735	2312.5	16QAM	25@0	see graph	PASS

## Test Graphs

B30\_10M\_QPSK\_50@0\_CH\_23230\_left



Date: 4.JAN.2024 03:27:14

B30\_10M\_QPSK\_50@0\_CH\_23230\_right



Date: 4.JAN.2024 03:16:34

B30\_10M\_QPSK\_1@0\_CH\_23230



Date: 4.JAN.2024 03:23:57

B30\_10M\_QPSK\_1@49\_CH\_23230



Date: 4.JAN.2024 03:21:11

B30\_10M\_16QAM\_50@0\_CH\_23230\_left



Date: 4, JAN, 2024 03:27:33

B30\_10M\_16QAM\_50@0\_CH\_23230\_right



Date: 4, JAN, 2024 03:16:58

B30\_10M\_16QAM\_1@0\_CH\_23230



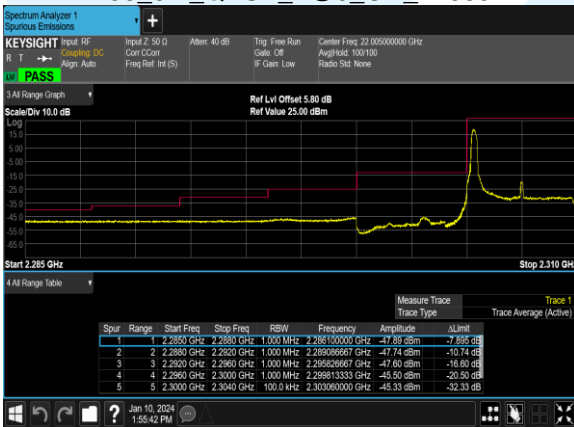
Date: 4, JAN, 2024 03:25:00

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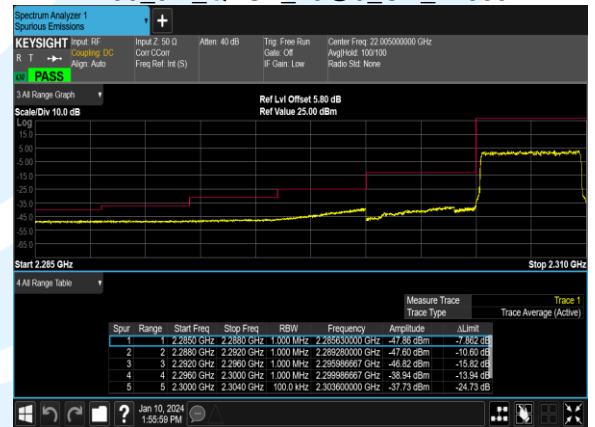
Date: 4, JAN, 2024 03:16:58

B30\_5M\_QPSK\_1@0\_CH\_27685



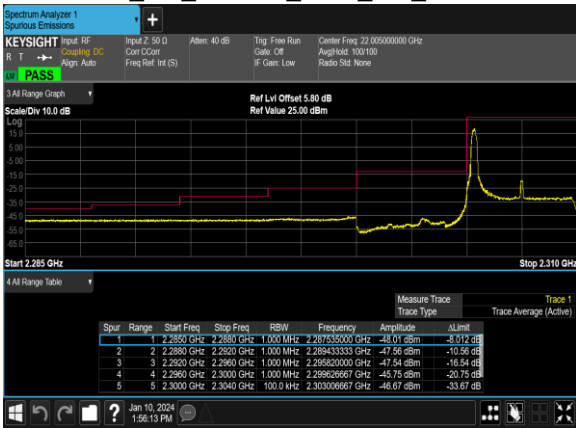
Jan 10, 2024 1:55:42 PM

B30\_5M\_QPSK\_25@0\_CH\_27685

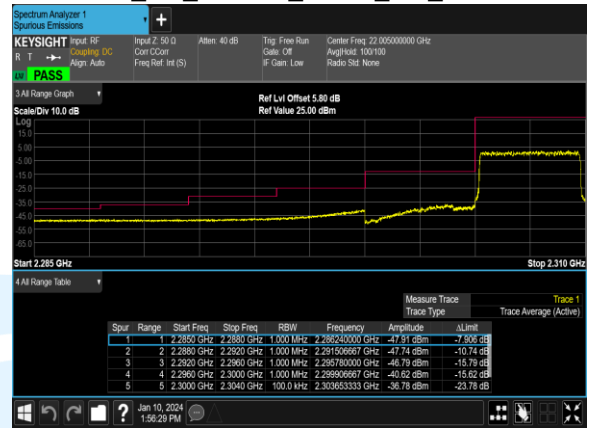


Jan 10, 2024 1:55:00 PM

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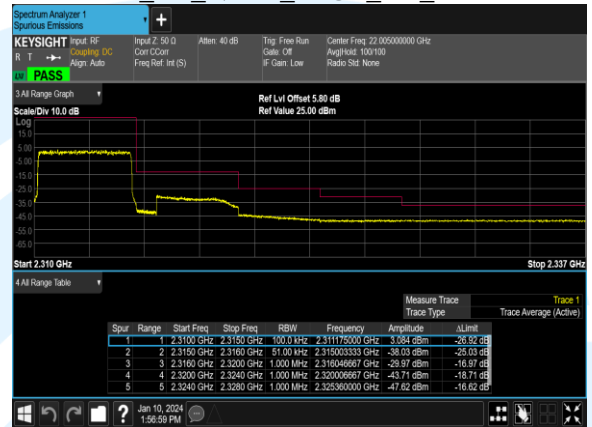
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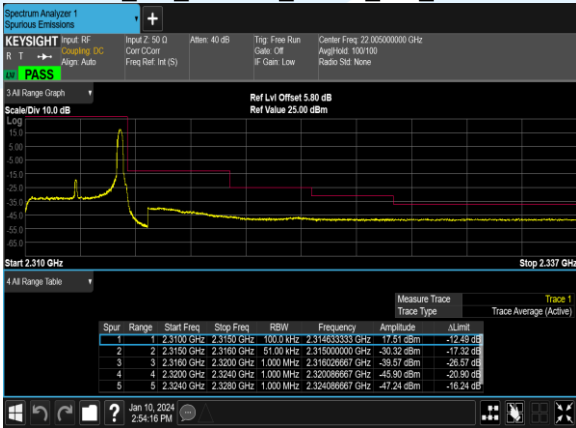
B30\_5M\_QPSK\_1@24\_CH\_27735



B30\_5M\_QPSK\_25@0\_CH\_27735



B30\_5M\_16QAM\_1@24\_CH\_27735



B30\_5M\_16QAM\_25@0\_CH\_27735



### A.12 LTE BAND 38

#### Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
38	20.0	37850	2580.0	QPSK	100@0	6.39	13	PASS
38	20.0	37850	2580.0	16QAM	100@0	7.45	13	PASS
38	20.0	38000	2595.0	QPSK	100@0	6.21	13	PASS
38	20.0	38000	2595.0	16QAM	100@0	7.26	13	PASS
38	20.0	38150	2610.0	QPSK	100@0	6.46	13	PASS
38	20.0	38150	2610.0	16QAM	100@0	7.19	13	PASS
38	15.0	37825	2577.5	QPSK	75@0	6.64	13	PASS
38	15.0	37825	2577.5	16QAM	75@0	7.40	13	PASS
38	15.0	38000	2595.0	QPSK	75@0	6.46	13	PASS
38	15.0	38000	2595.0	16QAM	75@0	7.64	13	PASS
38	15.0	38175	2612.5	QPSK	75@0	6.46	13	PASS
38	15.0	38175	2612.5	16QAM	75@0	7.28	13	PASS
38	10.0	37800	2575.0	QPSK	50@0	6.68	13	PASS
38	10.0	37800	2575.0	16QAM	50@0	7.40	13	PASS
38	10.0	38000	2595.0	QPSK	50@0	6.07	13	PASS
38	10.0	38000	2595.0	16QAM	50@0	7.23	13	PASS
38	10.0	38200	2615.0	QPSK	50@0	6.17	13	PASS
38	10.0	38200	2615.0	16QAM	50@0	6.85	13	PASS
38	5.0	37775	2572.5	QPSK	25@0	6.20	13	PASS
38	5.0	37775	2572.5	16QAM	25@0	6.88	13	PASS
38	5.0	38000	2595.0	QPSK	25@0	6.02	13	PASS
38	5.0	38000	2595.0	16QAM	25@0	6.33	13	PASS
38	5.0	38225	2617.5	QPSK	25@0	6.14	13	PASS
38	5.0	38225	2617.5	16QAM	25@0	6.79	13	PASS

#### Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
38	20.0	37850	2580.0	QPSK	100@0	17.840	18.62
38	20.0	37850	2580.0	16QAM	100@0	17.795	18.71
38	20.0	38000	2595.0	QPSK	100@0	17.802	18.60
38	20.0	38000	2595.0	16QAM	100@0	17.882	18.63
38	20.0	38150	2610.0	QPSK	100@0	17.852	18.59
38	20.0	38150	2610.0	16QAM	100@0	17.783	18.70
38	15.0	37825	2577.5	QPSK	75@0	13.386	14.26
38	15.0	37825	2577.5	16QAM	75@0	13.377	14.08
38	15.0	38000	2595.0	QPSK	75@0	13.435	14.23
38	15.0	38000	2595.0	16QAM	75@0	13.367	14.00
38	15.0	38175	2612.5	QPSK	75@0	13.393	14.27
38	15.0	38175	2612.5	16QAM	75@0	13.413	14.04
38	10.0	37800	2575.0	QPSK	50@0	8.9460	9.308
38	10.0	37800	2575.0	16QAM	50@0	8.9204	9.462
38	10.0	38000	2595.0	QPSK	50@0	8.9460	9.497
38	10.0	38000	2595.0	16QAM	50@0	8.9261	9.508
38	10.0	38200	2615.0	QPSK	50@0	8.9048	9.504
38	10.0	38200	2615.0	16QAM	50@0	8.9312	9.517
38	5.0	37775	2572.5	QPSK	25@0	4.4596	4.737
38	5.0	37775	2572.5	16QAM	25@0	4.4492	4.790
38	5.0	38000	2595.0	QPSK	25@0	4.4602	4.811
38	5.0	38000	2595.0	16QAM	25@0	4.4633	4.856
38	5.0	38225	2617.5	QPSK	25@0	4.4821	4.759
38	5.0	38225	2617.5	16QAM	25@0	4.4567	4.796

## Test Graphs

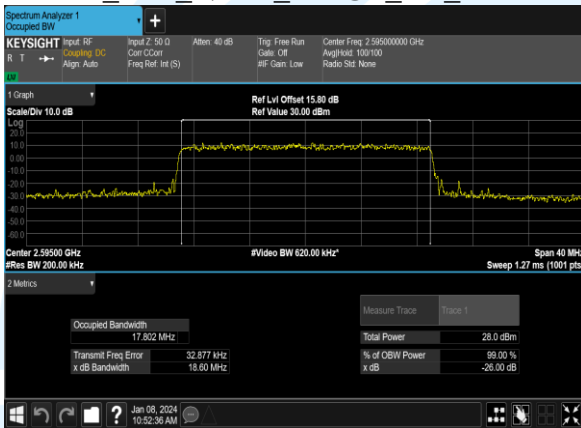
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B38\_20M\_16QAM\_100@0\_CH\_37850



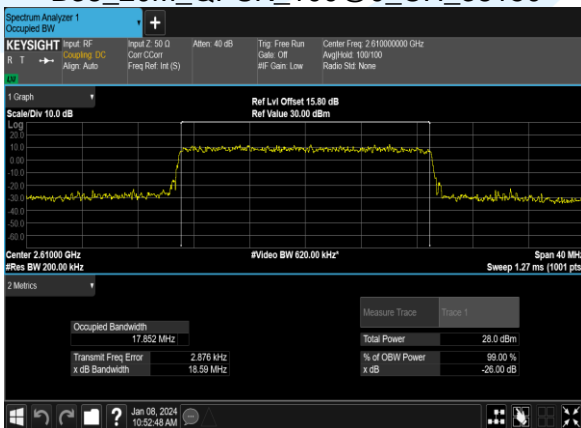
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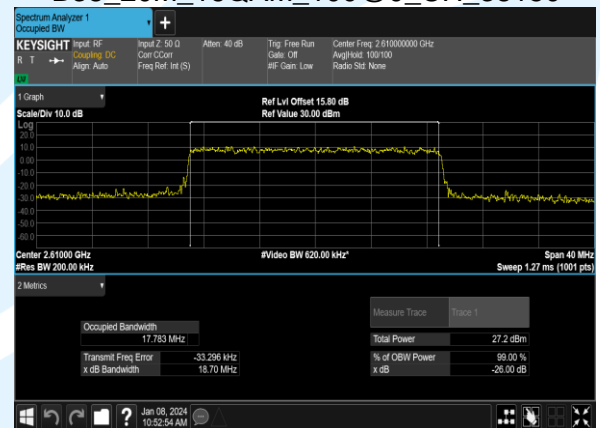
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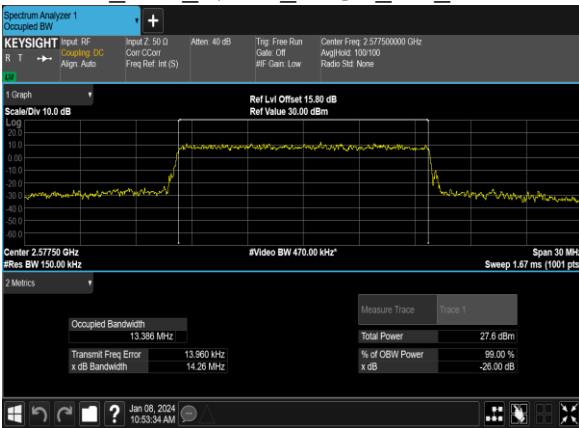
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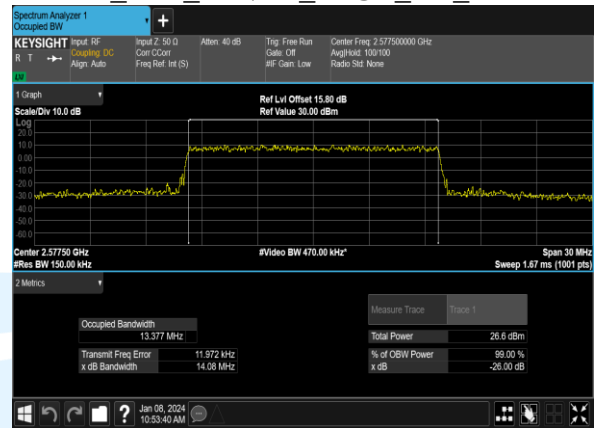
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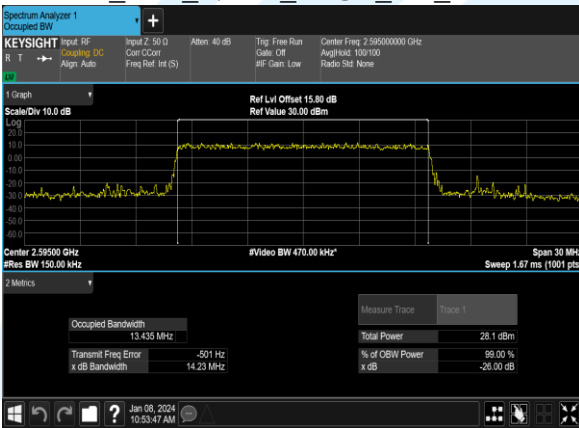
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B38\_15M\_16QAM\_75@0\_CH\_37825



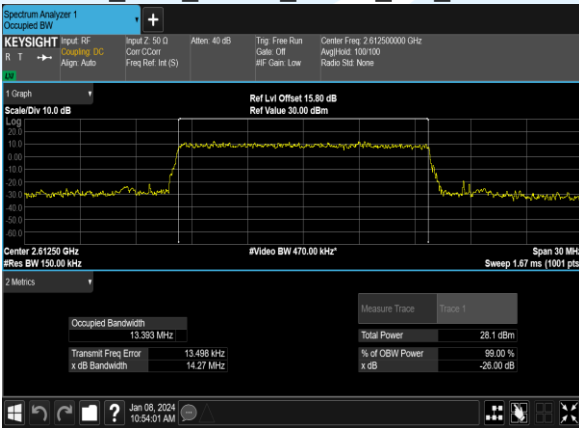
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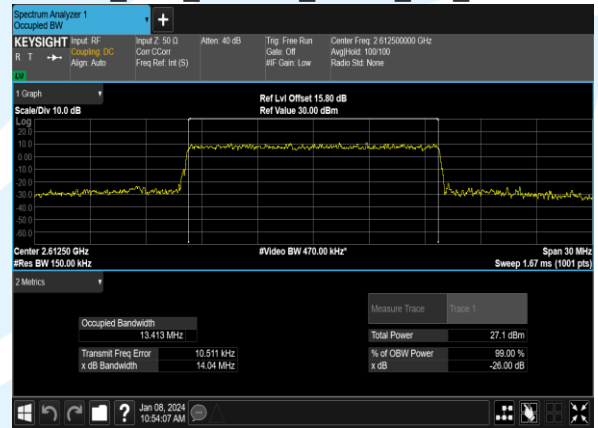
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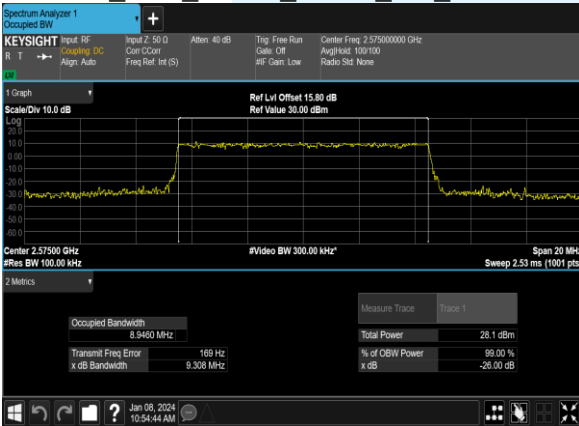
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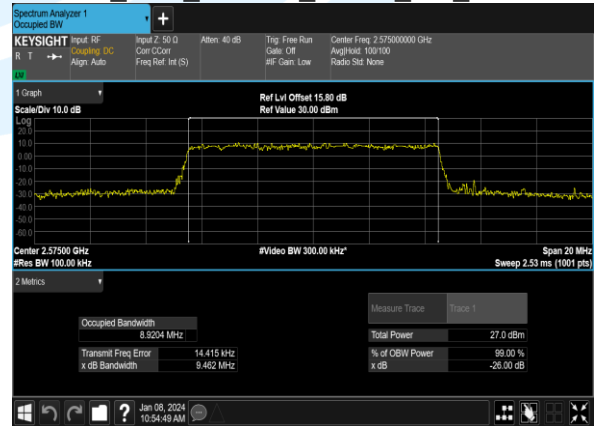
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B38\_10M\_QPSK\_50@0\_CH\_37800



B38\_10M\_16QAM\_50@0\_CH\_37800



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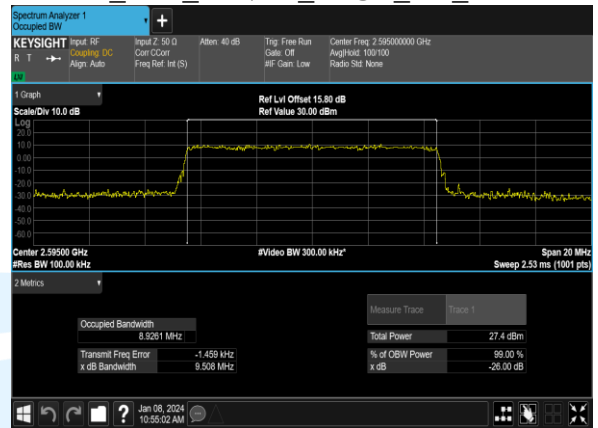
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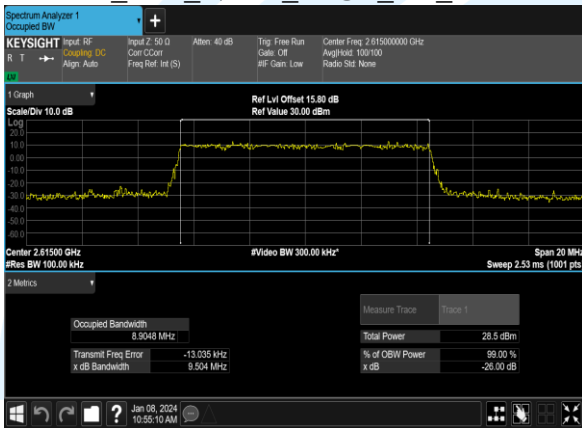
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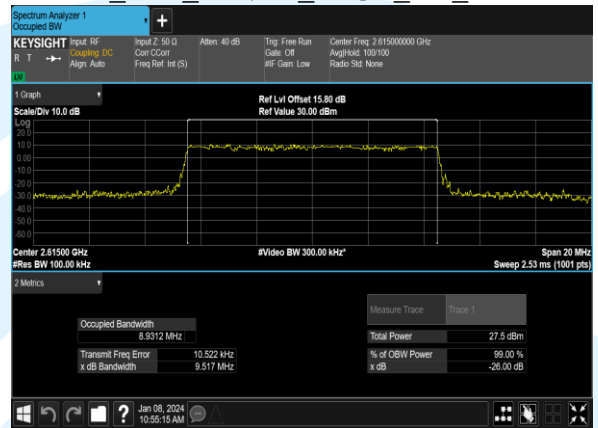
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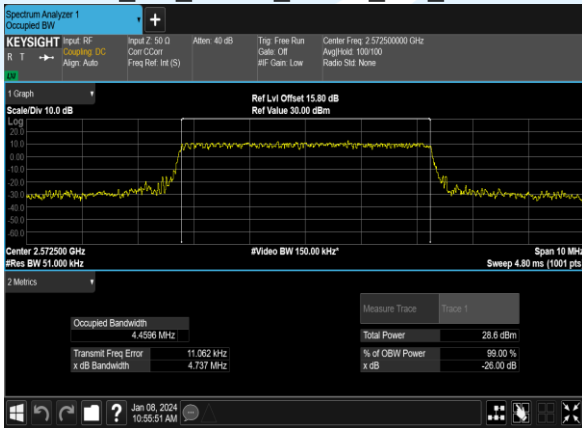
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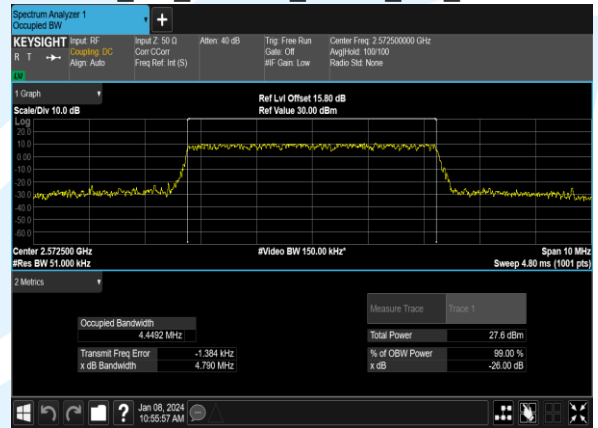
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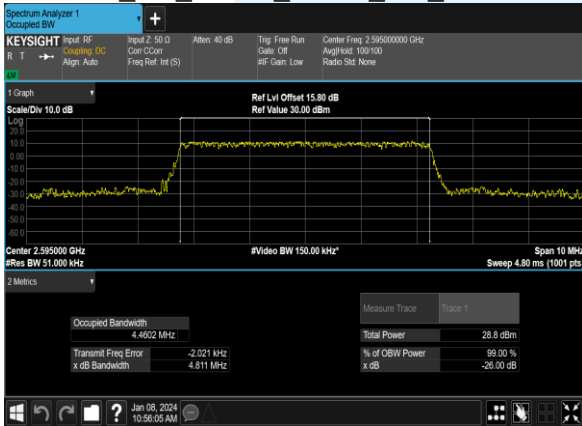
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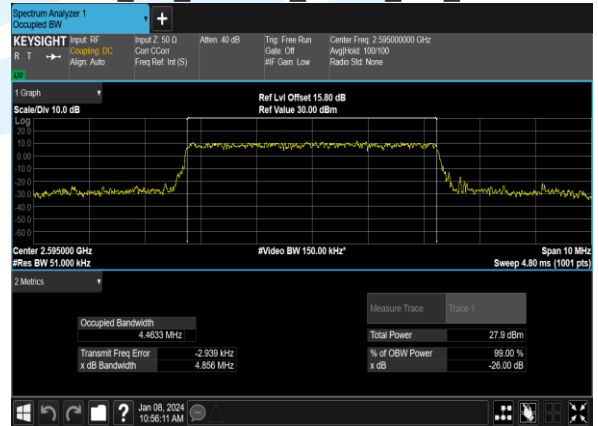
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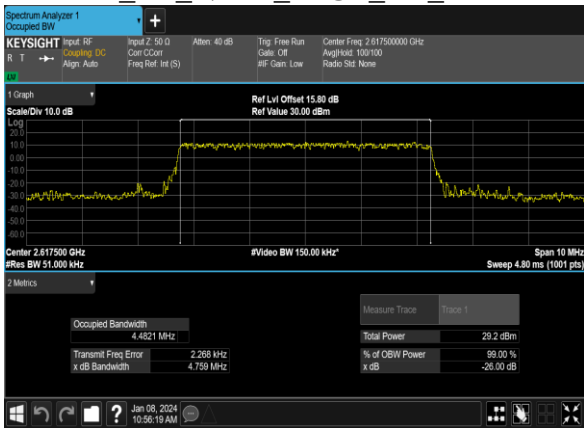
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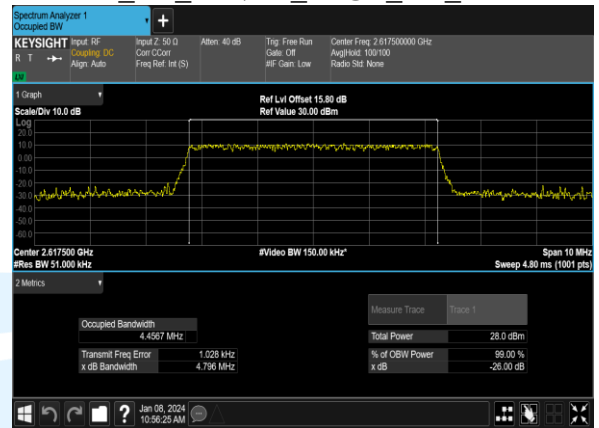
B38\_5M\_16QAM\_25@0\_CH\_38000



B38\_5M\_QPSK\_25@0\_CH\_38225



B38\_5M\_16QAM\_25@0\_CH\_38225



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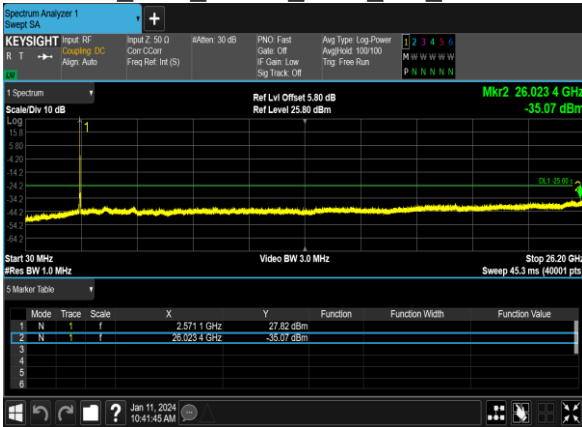


**Conducted Spurious Emissions**

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
38	20.0	37850	2580.0	QPSK	1@0	-35.08	-25	PASS
38	20.0	37850	2580.0	16QAM	1@0	-34.93	-25	PASS
38	20.0	38000	2595.0	QPSK	1@0	-35.13	-25	PASS
38	20.0	38000	2595.0	16QAM	1@0	-35.26	-25	PASS
38	20.0	38150	2610.0	QPSK	1@0	-35.74	-25	PASS
38	20.0	38150	2610.0	16QAM	1@0	-35.66	-25	PASS
38	15.0	37825	2577.5	QPSK	1@0	-35.26	-25	PASS
38	15.0	37825	2577.5	16QAM	1@0	-34.31	-25	PASS
38	15.0	38000	2595.0	QPSK	1@0	-35.45	-25	PASS
38	15.0	38000	2595.0	16QAM	1@0	-35.32	-25	PASS
38	15.0	38175	2612.5	QPSK	1@0	-35.97	-25	PASS
38	15.0	38175	2612.5	16QAM	1@0	-35.46	-25	PASS
38	10.0	37800	2575.0	QPSK	1@0	-35.3	-25	PASS
38	10.0	37800	2575.0	16QAM	1@0	-35.7	-25	PASS
38	10.0	38000	2595.0	QPSK	1@0	-35.54	-25	PASS
38	10.0	38000	2595.0	16QAM	1@0	-35.34	-25	PASS
38	10.0	38200	2615.0	QPSK	1@0	-35.28	-25	PASS
38	10.0	38200	2615.0	16QAM	1@0	-35.79	-25	PASS
38	5.0	37775	2572.5	QPSK	1@0	-35.09	-25	PASS
38	5.0	37775	2572.5	16QAM	1@0	-35.53	-25	PASS
38	5.0	38000	2595.0	QPSK	1@0	-35.68	-25	PASS
38	5.0	38000	2595.0	16QAM	1@0	-35.6	-25	PASS
38	5.0	38225	2617.5	QPSK	1@0	-33.05	-25	PASS
38	5.0	38225	2617.5	16QAM	1@0	-35.48	-25	PASS

## Test Graphs

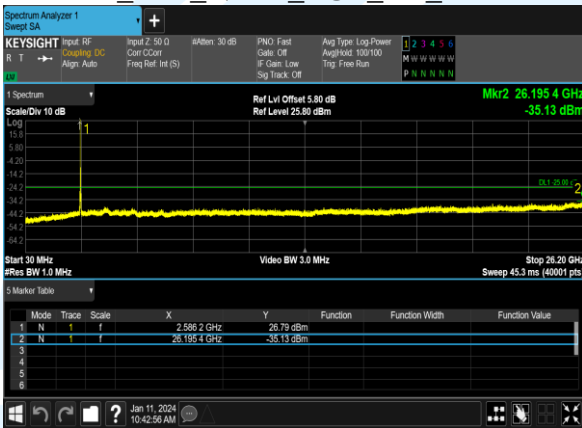
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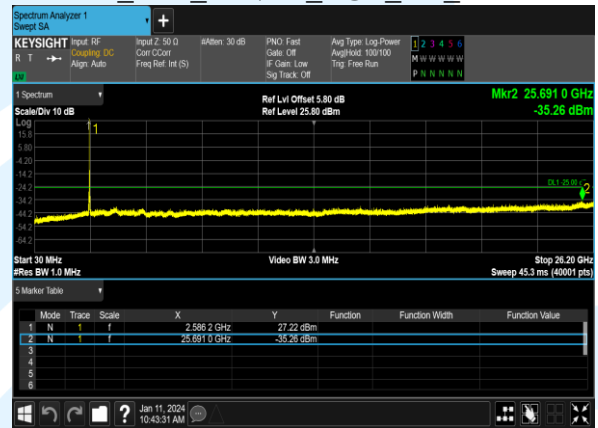
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### B38\_20M\_QPSK\_1@0\_CH\_38000



### B38\_20M\_16QAM\_1@0\_CH\_38000



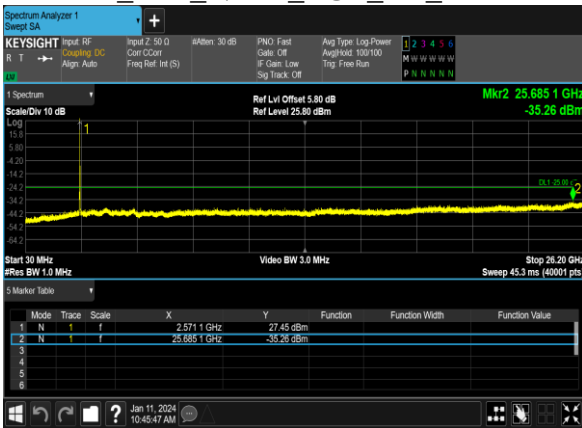
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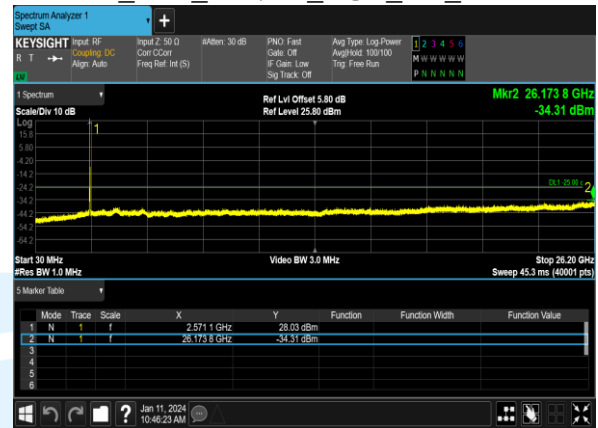
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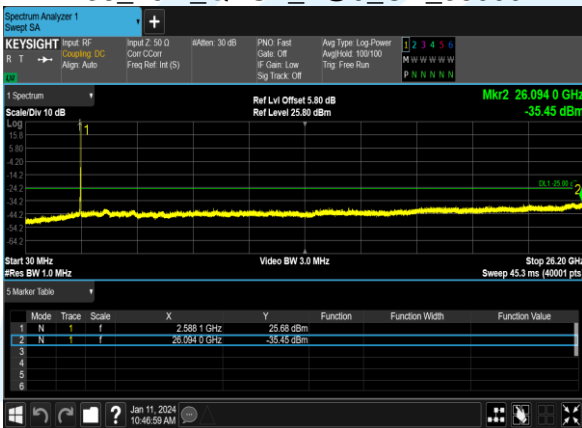
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B38\_15M\_16QAM\_1@0\_CH\_37825



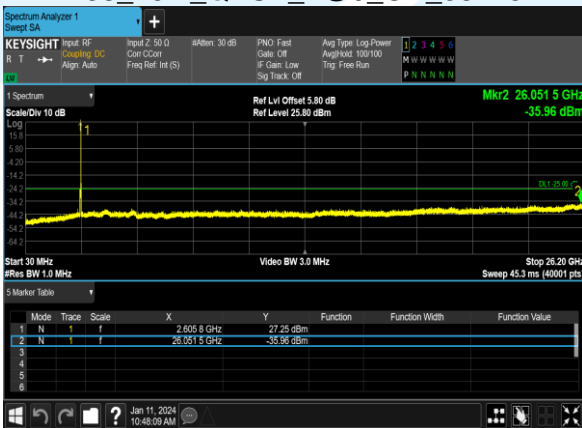
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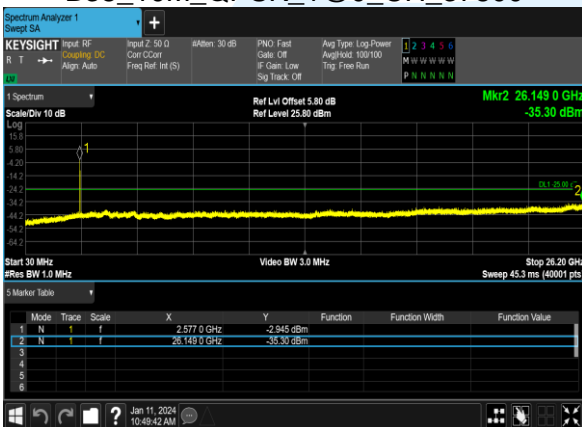
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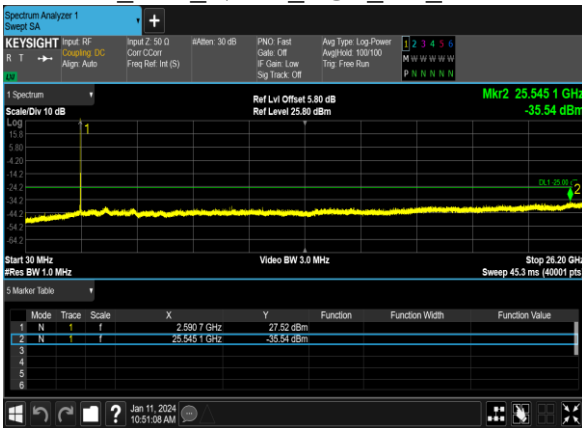
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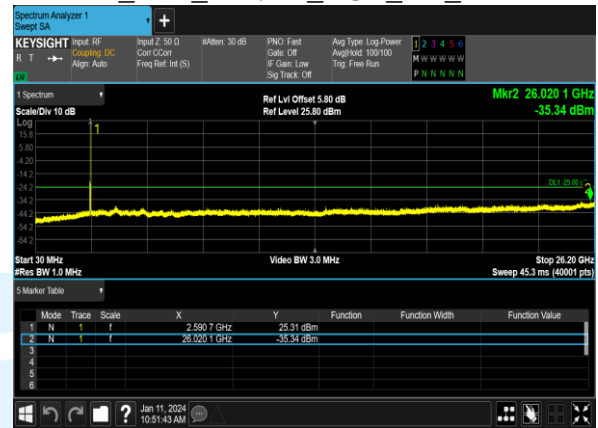
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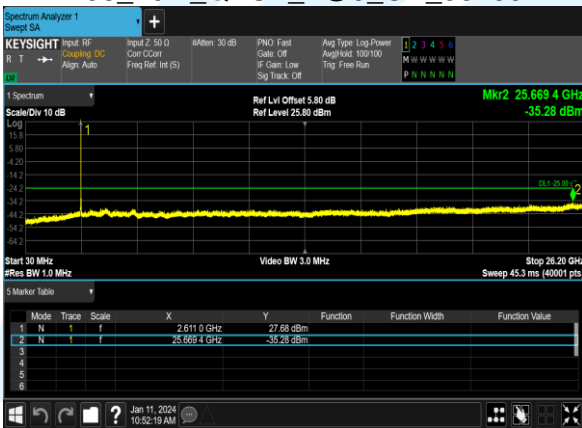
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B38\_10M\_16QAM\_1@0\_CH\_38000



B38\_10M\_QPSK\_1@0\_CH\_38200



B38\_10M\_16QAM\_1@0\_CH\_38200



B38\_5M\_QPSK\_1@0\_CH\_37775



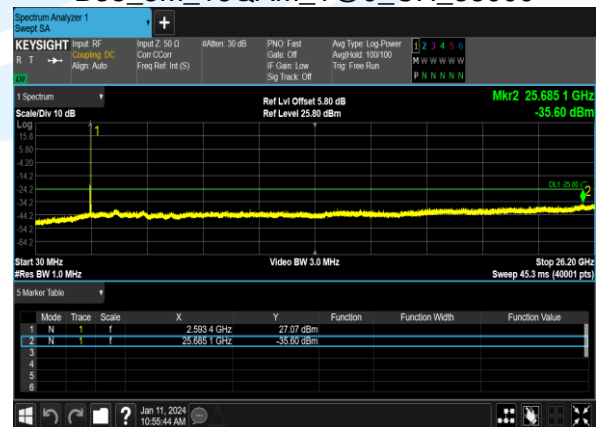
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B38\_5M\_QPSK\_1@0\_CH\_38000



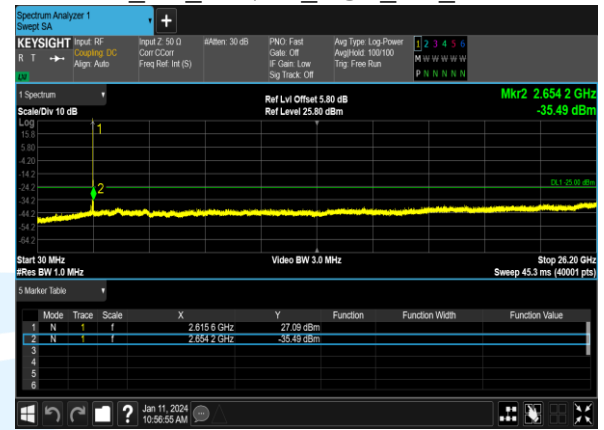
B38\_5M\_16QAM\_1@0\_CH\_38000



B38\_5M\_QPSK\_1@0\_CH\_38225



B38\_5M\_16QAM\_1@0\_CH\_38225



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UTTR-RF-FCC4G-V1.1

**Conducted Band Edge**

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
38	20.0	37850	2580.0	QPSK	1@0	see graph	PASS
38	20.0	37850	2580.0	QPSK	100@0	see graph	PASS
38	20.0	37850	2580.0	16QAM	1@0	see graph	PASS
38	20.0	37850	2580.0	16QAM	100@0	see graph	PASS
38	20.0	38150	2610.0	QPSK	1@99	see graph	PASS
38	20.0	38150	2610.0	QPSK	100@0	see graph	PASS
38	20.0	38150	2610.0	16QAM	1@99	see graph	PASS
38	20.0	38150	2610.0	16QAM	100@0	see graph	PASS
38	15.0	37825	2577.5	QPSK	1@0	see graph	PASS
38	15.0	37825	2577.5	QPSK	75@0	see graph	PASS
38	15.0	37825	2577.5	16QAM	1@0	see graph	PASS
38	15.0	37825	2577.5	16QAM	75@0	see graph	PASS
38	15.0	38175	2612.5	QPSK	1@74	see graph	PASS
38	15.0	38175	2612.5	QPSK	75@0	see graph	PASS
38	15.0	38175	2612.5	16QAM	1@74	see graph	PASS
38	15.0	38175	2612.5	16QAM	75@0	see graph	PASS
38	10.0	37800	2575.0	QPSK	1@0	see graph	PASS
38	10.0	37800	2575.0	QPSK	50@0	see graph	PASS
38	10.0	37800	2575.0	16QAM	1@0	see graph	PASS
38	10.0	37800	2575.0	16QAM	50@0	see graph	PASS
38	10.0	38200	2615.0	QPSK	1@49	see graph	PASS
38	10.0	38200	2615.0	QPSK	50@0	see graph	PASS
38	10.0	38200	2615.0	16QAM	1@49	see graph	PASS
38	10.0	38200	2615.0	16QAM	50@0	see graph	PASS
38	5.0	37775	2572.5	QPSK	1@0	see graph	PASS
38	5.0	37775	2572.5	QPSK	25@0	see graph	PASS
38	5.0	37775	2572.5	16QAM	1@0	see graph	PASS
38	5.0	37775	2572.5	16QAM	25@0	see graph	PASS
38	5.0	38225	2617.5	QPSK	1@24	see graph	PASS
38	5.0	38225	2617.5	QPSK	25@0	see graph	PASS
38	5.0	38225	2617.5	16QAM	1@24	see graph	PASS
38	5.0	38225	2617.5	16QAM	25@0	see graph	PASS

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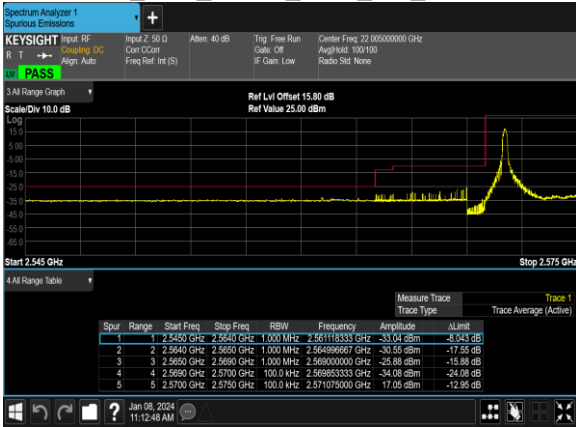
E-mail: info@uttlab.com

<http://www.uttlab.com>

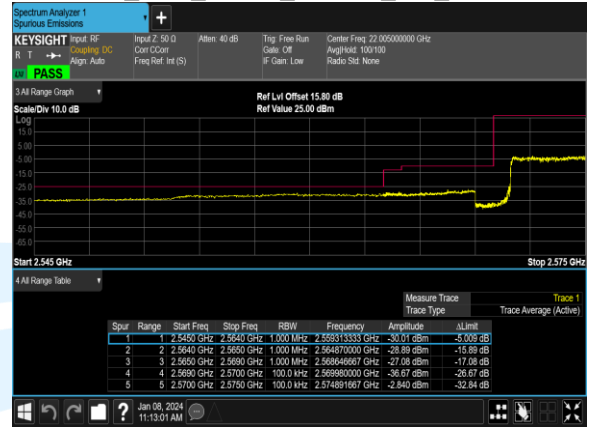
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## Test Graphs

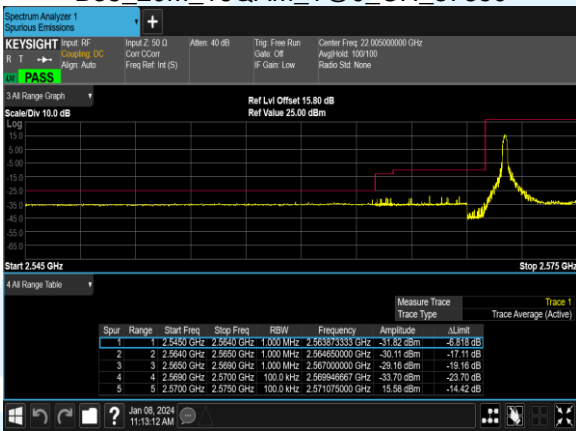
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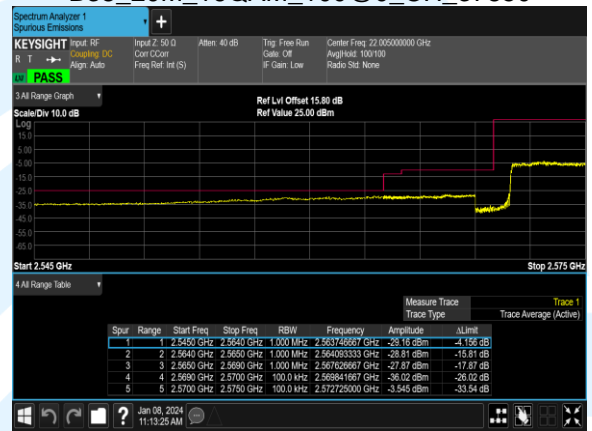
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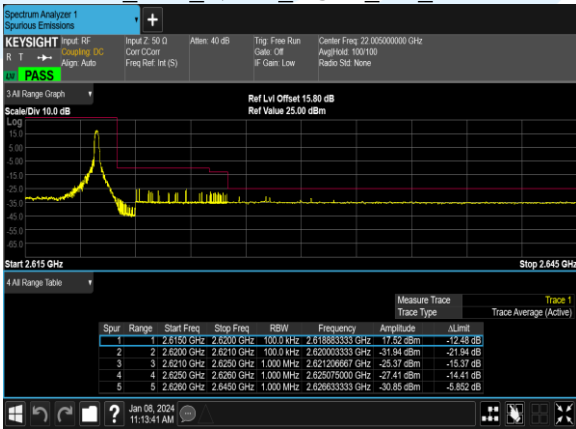
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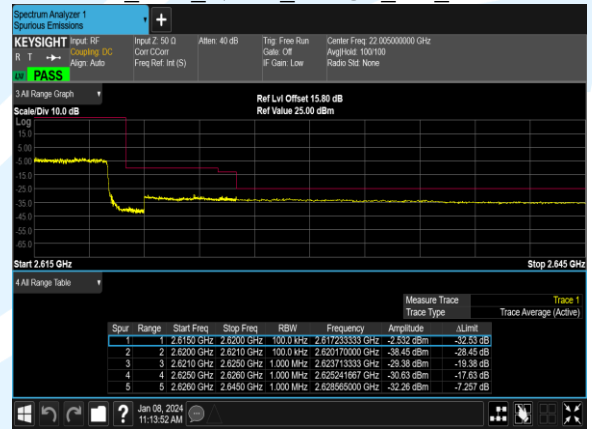
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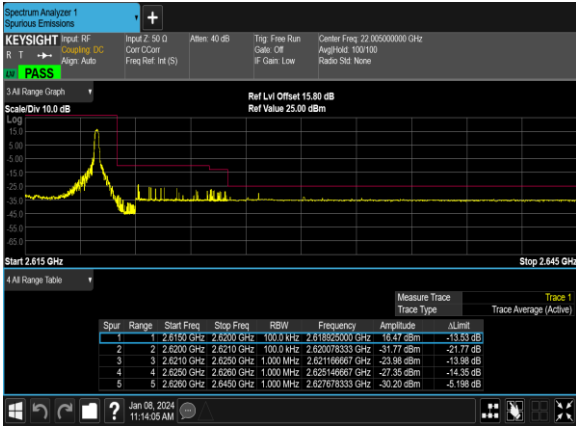
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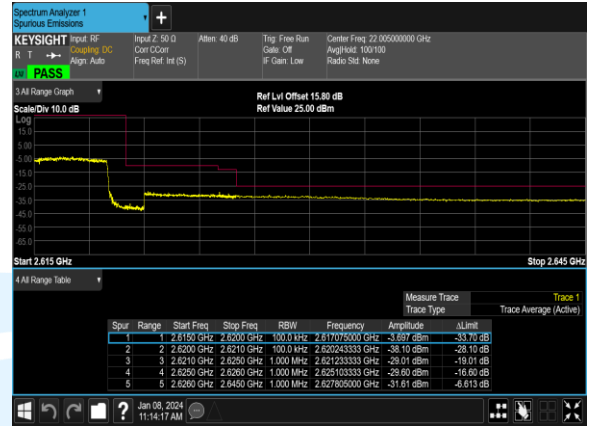
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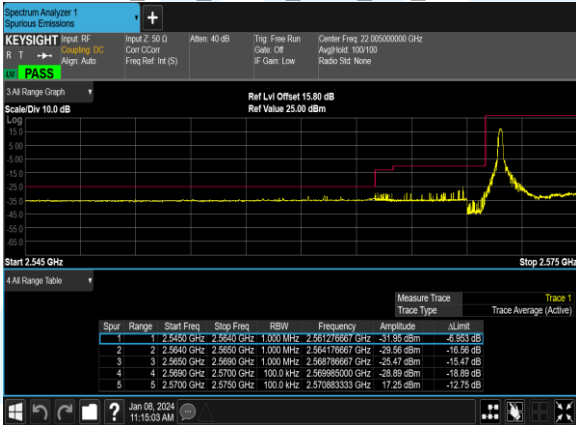
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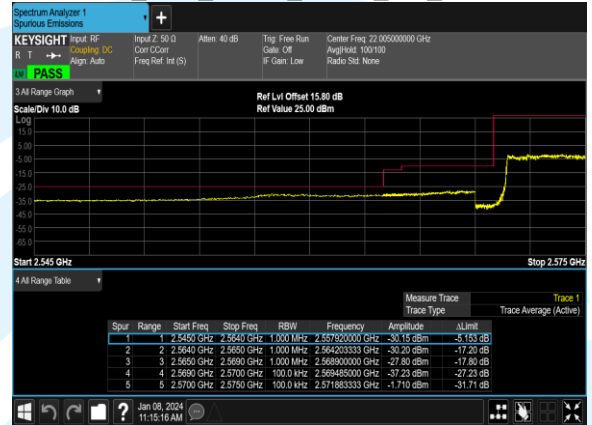
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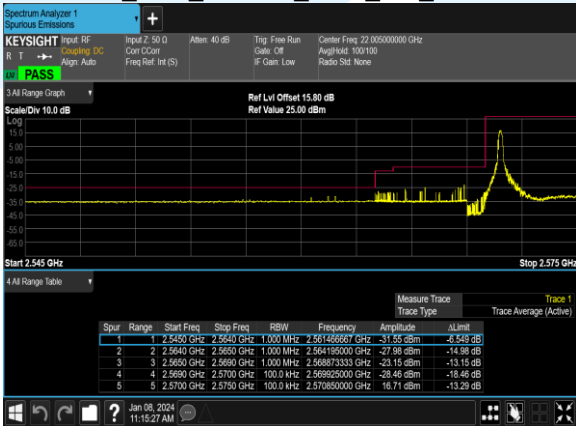
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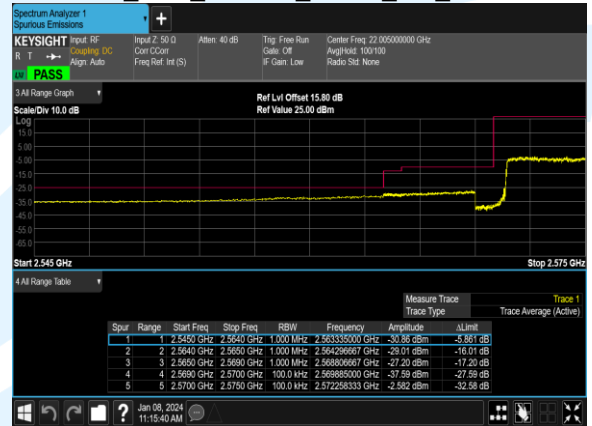
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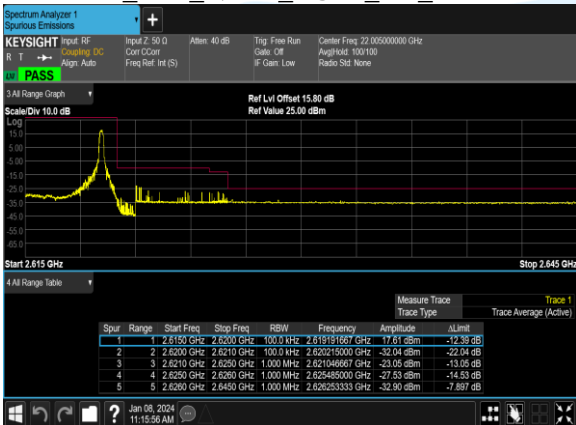
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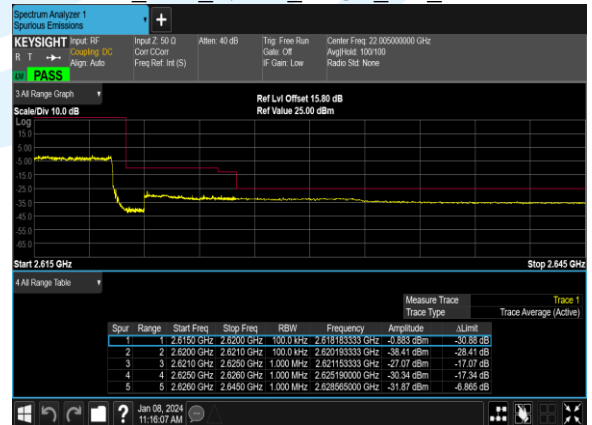
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B38\_15M\_QPSK\_1@74\_CH\_38175



B38\_15M\_QPSK\_75@0\_CH\_38175



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