

TABLE OF CONTENTS

1 Conducted output power	2
2 Frequency stability	4
3 Peak-to-Average Ratio	5
4 Occupied bandwidth	8
5 Band edge	13
6 Out-of-band emissions	17

1 Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	Limt (dBm)	Verdict
Band13	5	23205	1	#0	QPSK	23.61	-3.7	-5.85	17.76	34.77	PASS
Band13	5	23205	1	#Mid	QPSK	23.65	-3.7	-5.85	17.80	34.77	PASS
Band13	5	23205	1	#Max	QPSK	23.82	-3.7	-5.85	17.97	34.77	PASS
Band13	5	23205	12	#0	QPSK	22.63	-3.7	-5.85	16.78	34.77	PASS
Band13	5	23205	12	#Mid	QPSK	22.64	-3.7	-5.85	16.79	34.77	PASS
Band13	5	23205	12	#Max	QPSK	22.69	-3.7	-5.85	16.84	34.77	PASS
Band13	5	23205	25	#0	QPSK	22.73	-3.7	-5.85	16.88	34.77	PASS
Band13	5	23205	1	#0	QAM16	22.92	-3.7	-5.85	17.07	34.77	PASS
Band13	5	23205	1	#Mid	QAM16	22.99	-3.7	-5.85	17.14	34.77	PASS
Band13	5	23205	1	#Max	QAM16	23.14	-3.7	-5.85	17.29	34.77	PASS
Band13	5	23205	12	#0	QAM16	21.6	-3.7	-5.85	15.75	34.77	PASS
Band13	5	23205	12	#Mid	QAM16	21.62	-3.7	-5.85	15.77	34.77	PASS
Band13	5	23205	12	#Max	QAM16	21.67	-3.7	-5.85	15.82	34.77	PASS
Band13	5	23205	25	#0	QAM16	21.73	-3.7	-5.85	15.88	34.77	PASS
Band13	5	23230	1	#0	QPSK	23.6	-3.7	-5.85	17.75	34.77	PASS
Band13	5	23230	1	#Mid	QPSK	23.76	-3.7	-5.85	17.91	34.77	PASS
Band13	5	23230	1	#Max	QPSK	23.81	-3.7	-5.85	17.96	34.77	PASS
Band13	5	23230	12	#0	QPSK	22.74	-3.7	-5.85	16.89	34.77	PASS
Band13	5	23230	12	#Mid	QPSK	22.76	-3.7	-5.85	16.91	34.77	PASS
Band13	5	23230	12	#Max	QPSK	22.82	-3.7	-5.85	16.97	34.77	PASS
Band13	5	23230	25	#0	QPSK	22.84	-3.7	-5.85	16.99	34.77	PASS
Band13	5	23230	1	#0	QAM16	23	-3.7	-5.85	17.15	34.77	PASS
Band13	5	23230	1	#Mid	QAM16	23.07	-3.7	-5.85	17.22	34.77	PASS
Band13	5	23230	1	#Max	QAM16	23.2	-3.7	-5.85	17.35	34.77	PASS
Band13	5	23230	12	#0	QAM16	21.78	-3.7	-5.85	15.93	34.77	PASS
Band13	5	23230	12	#Mid	QAM16	21.82	-3.7	-5.85	15.97	34.77	PASS
Band13	5	23230	12	#Max	QAM16	21.87	-3.7	-5.85	16.02	34.77	PASS
Band13	5	23230	25	#0	QAM16	21.79	-3.7	-5.85	15.94	34.77	PASS
Band13	5	23255	1	#0	QPSK	23.96	-3.7	-5.85	18.11	34.77	PASS
Band13	5	23255	1	#Mid	QPSK	24	-3.7	-5.85	18.15	34.77	PASS
Band13	5	23255	1	#Max	QPSK	24.02	-3.7	-5.85	18.17	34.77	PASS
Band13	5	23255	12	#0	QPSK	22.85	-3.7	-5.85	17.00	34.77	PASS
Band13	5	23255	12	#Mid	QPSK	22.85	-3.7	-5.85	17.00	34.77	PASS
Band13	5	23255	12	#Max	QPSK	22.89	-3.7	-5.85	17.04	34.77	PASS
Band13	5	23255	25	#0	QPSK	22.9	-3.7	-5.85	17.05	34.77	PASS
Band13	5	23255	1	#0	QAM16	23.36	-3.7	-5.85	17.51	34.77	PASS
Band13	5	23255	1	#Mid	QAM16	23.35	-3.7	-5.85	17.50	34.77	PASS

Band13	5	23255	1	#Max	QAM16	23.45	-3.7	-5.85	17.60	34.77	PASS
Band13	5	23255	12	#0	QAM16	21.86	-3.7	-5.85	16.01	34.77	PASS
Band13	5	23255	12	#Mid	QAM16	21.84	-3.7	-5.85	15.99	34.77	PASS
Band13	5	23255	12	#Max	QAM16	21.88	-3.7	-5.85	16.03	34.77	PASS
Band13	5	23255	25	#0	QAM16	21.85	-3.7	-5.85	16.00	34.77	PASS
Band13	10	23230	1	#0	QPSK	23.67	-3.7	-5.85	17.82	34.77	PASS
Band13	10	23230	1	#Mid	QPSK	23.82	-3.7	-5.85	17.97	34.77	PASS
Band13	10	23230	1	#Max	QPSK	24.01	-3.7	-5.85	18.16	34.77	PASS
Band13	10	23230	25	#0	QPSK	22.72	-3.7	-5.85	16.87	34.77	PASS
Band13	10	23230	25	#Mid	QPSK	22.75	-3.7	-5.85	16.90	34.77	PASS
Band13	10	23230	25	#Max	QPSK	22.88	-3.7	-5.85	17.03	34.77	PASS
Band13	10	23230	50	#0	QPSK	22.81	-3.7	-5.85	16.96	34.77	PASS
Band13	10	23230	1	#0	QAM16	23.02	-3.7	-5.85	17.17	34.77	PASS
Band13	10	23230	1	#Mid	QAM16	23.12	-3.7	-5.85	17.27	34.77	PASS
Band13	10	23230	1	#Max	QAM16	23.38	-3.7	-5.85	17.53	34.77	PASS
Band13	10	23230	25	#0	QAM16	21.72	-3.7	-5.85	15.87	34.77	PASS
Band13	10	23230	25	#Mid	QAM16	21.79	-3.7	-5.85	15.94	34.77	PASS
Band13	10	23230	25	#Max	QAM16	21.9	-3.7	-5.85	16.05	34.77	PASS
Band13	10	23230	50	#0	QAM16	21.8	-3.7	-5.85	15.95	34.77	PASS

2 Frequency stability

<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Result(Hz)</i>	<i>Result (ppm)</i>	<i>Low Limit (ppm)</i>	<i>high Limit (ppm)</i>	<i>Verdict</i>
Band13	10	23230	50	#0	QPSK	0.37	0.00047	-2.5	2.5	PASS
Band13	10	23230	50	#0	QAM16	-0.61	-0.00078	-2.5	2.5	PASS

Note: (Voltage: 3.92V, Temperature: 25°C) only reflect the worst mode.

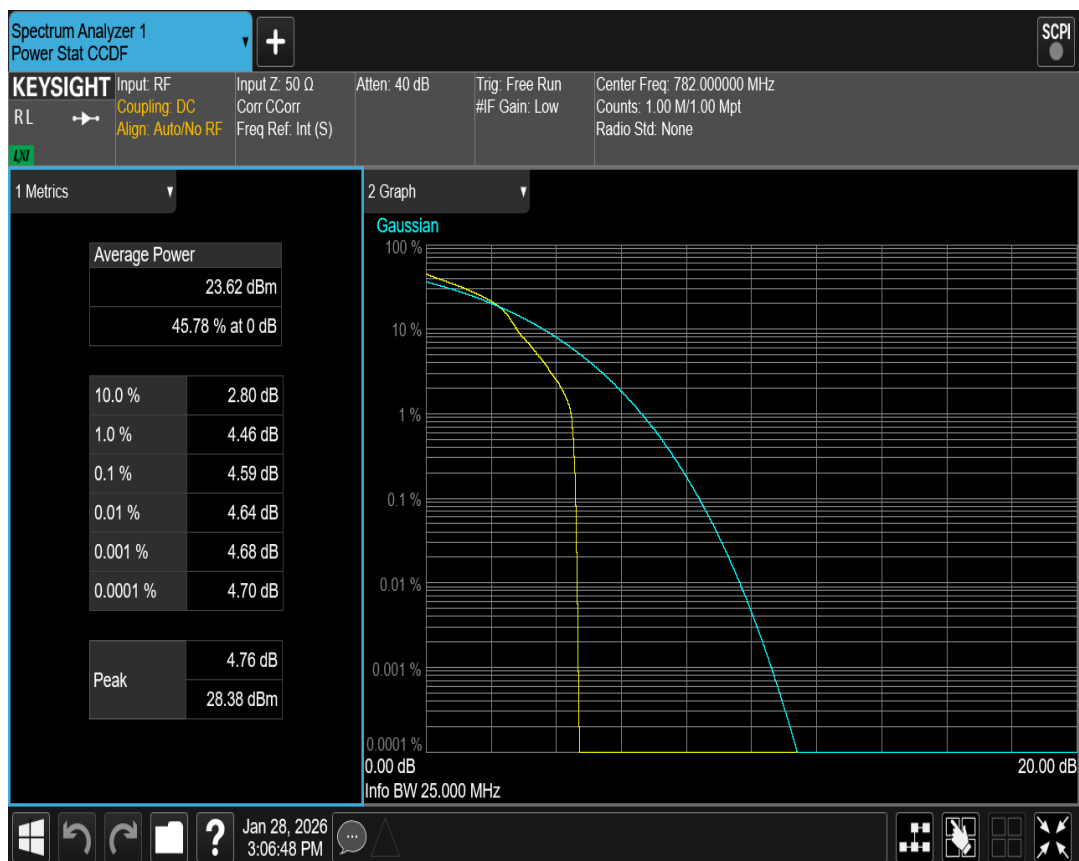
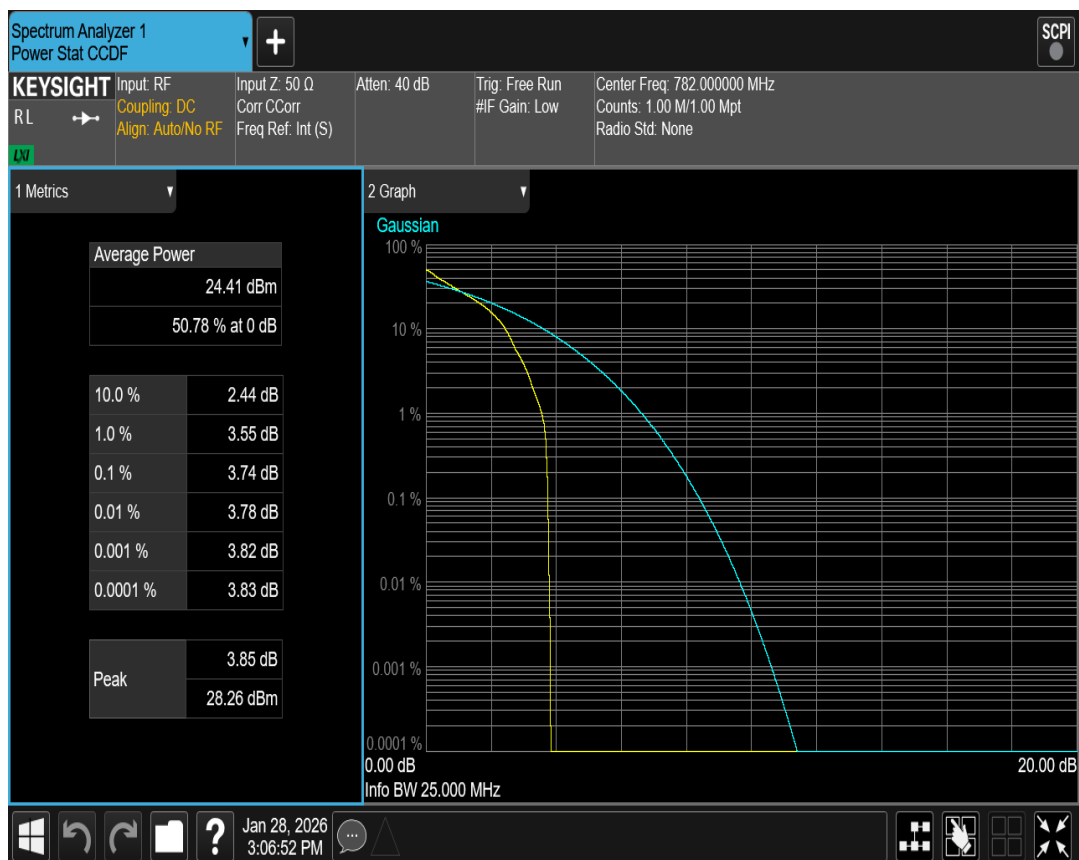
3 Peak-to-Average Ratio

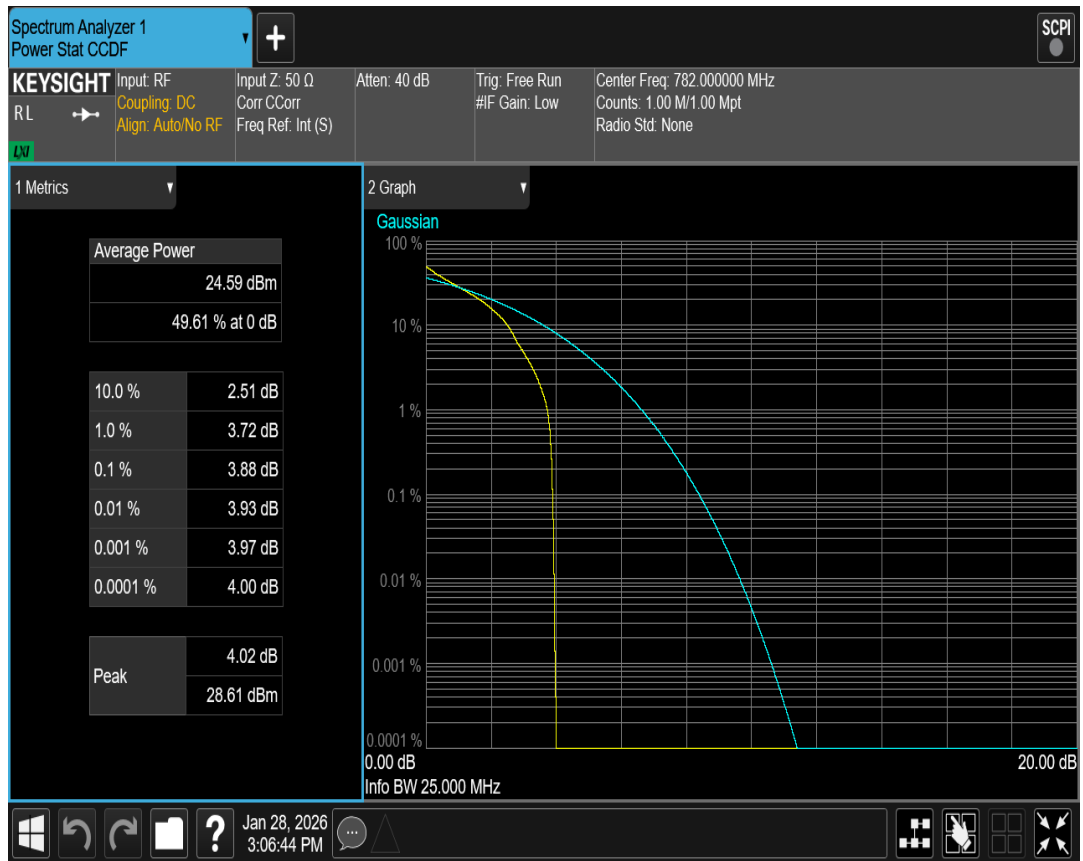
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band13	5	23230	1	#0	QPSK	3.88	13	PASS
Band13	5	23230	1	#0	QAM16	4.59	13	PASS
Band13	10	23230	1	#0	QPSK	3.74	13	PASS
Band13	10	23230	1	#0	QAM16	4.46	13	PASS

Band13 QAM16 BW=10MHz Channel=23230 RB Size=1 Position=#0



Band13 QAM16 BW=5MHz Channel=23230 RB Size=1 Position=#0

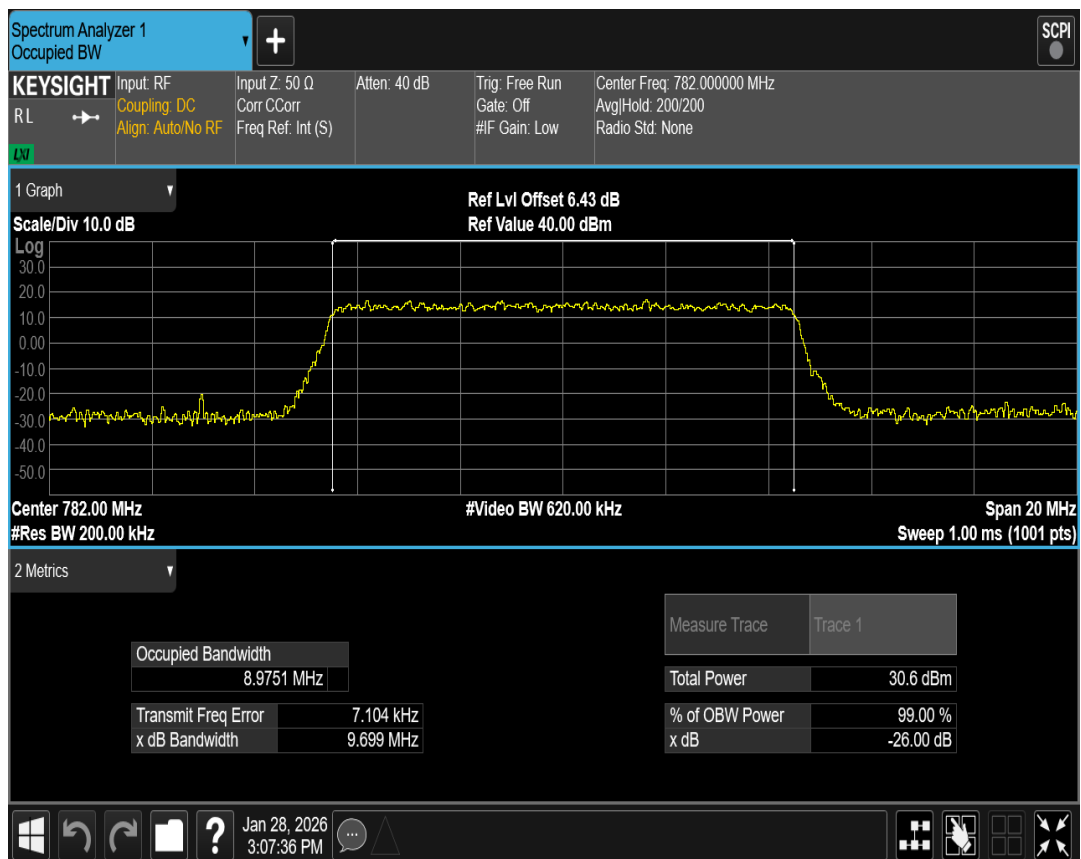
**Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0****Band13 QPSK BW=5MHz Channel=23230 RB Size=1 Position=#0**



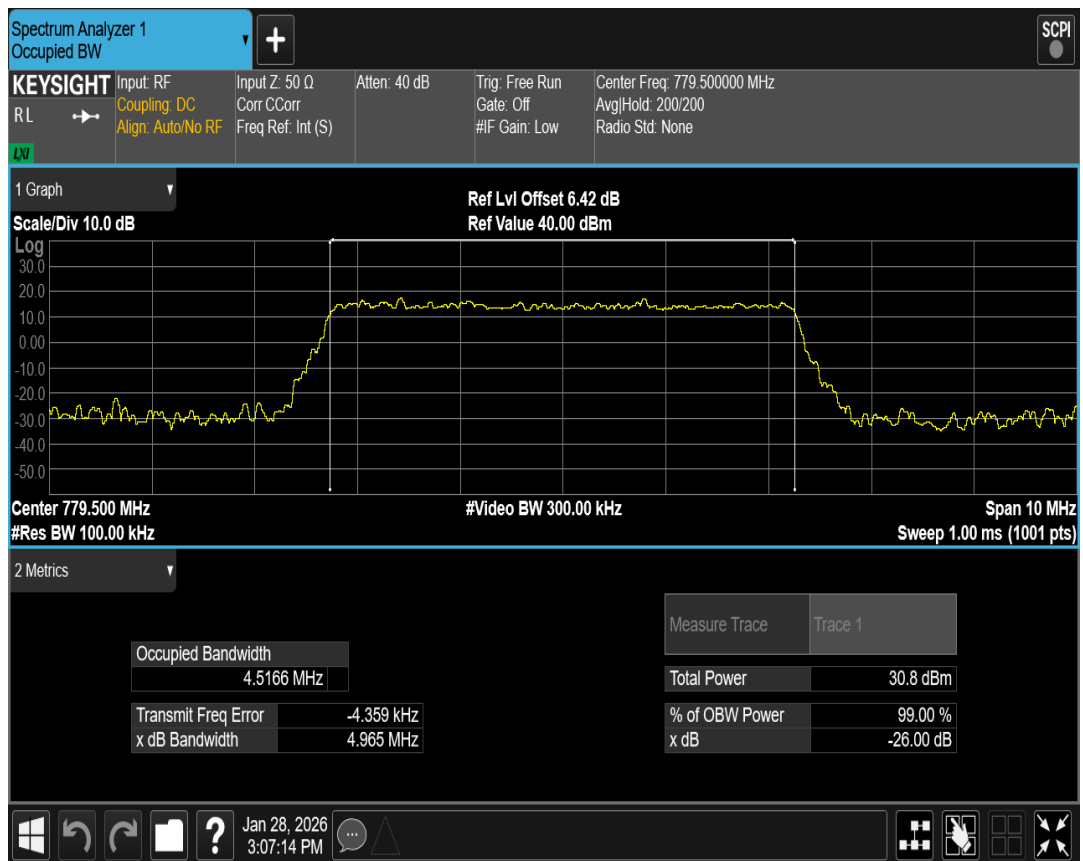
4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band13	5	23205	25	#0	QPSK	4.522	4.963	PASS
Band13	5	23205	25	#0	QAM16	4.517	4.965	PASS
Band13	5	23230	25	#0	QPSK	4.515	4.932	PASS
Band13	5	23230	25	#0	QAM16	4.508	4.967	PASS
Band13	5	23255	25	#0	QPSK	4.508	4.932	PASS
Band13	5	23255	25	#0	QAM16	4.533	4.950	PASS
Band13	10	23230	50	#0	QPSK	9.018	9.778	PASS
Band13	10	23230	50	#0	QAM16	8.975	9.699	PASS

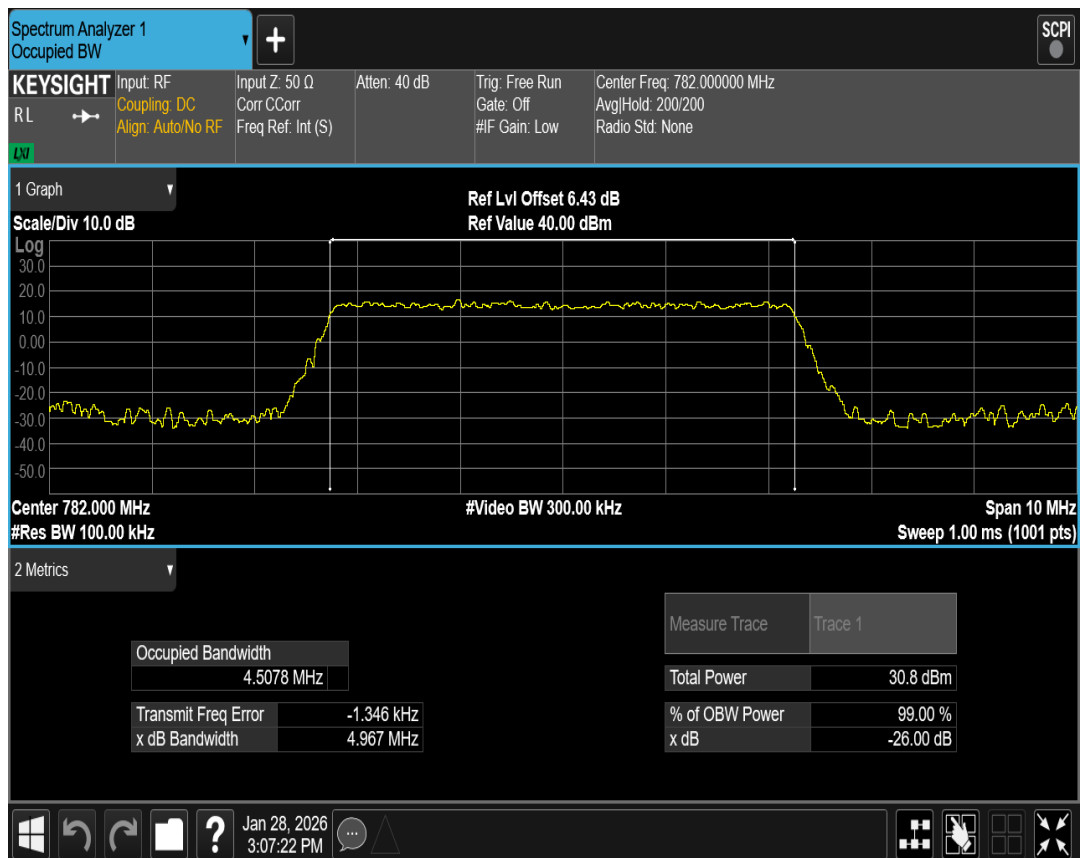
Band13 QAM16 BW=10MHz Channel=23230 RB Size=50 Position=#0



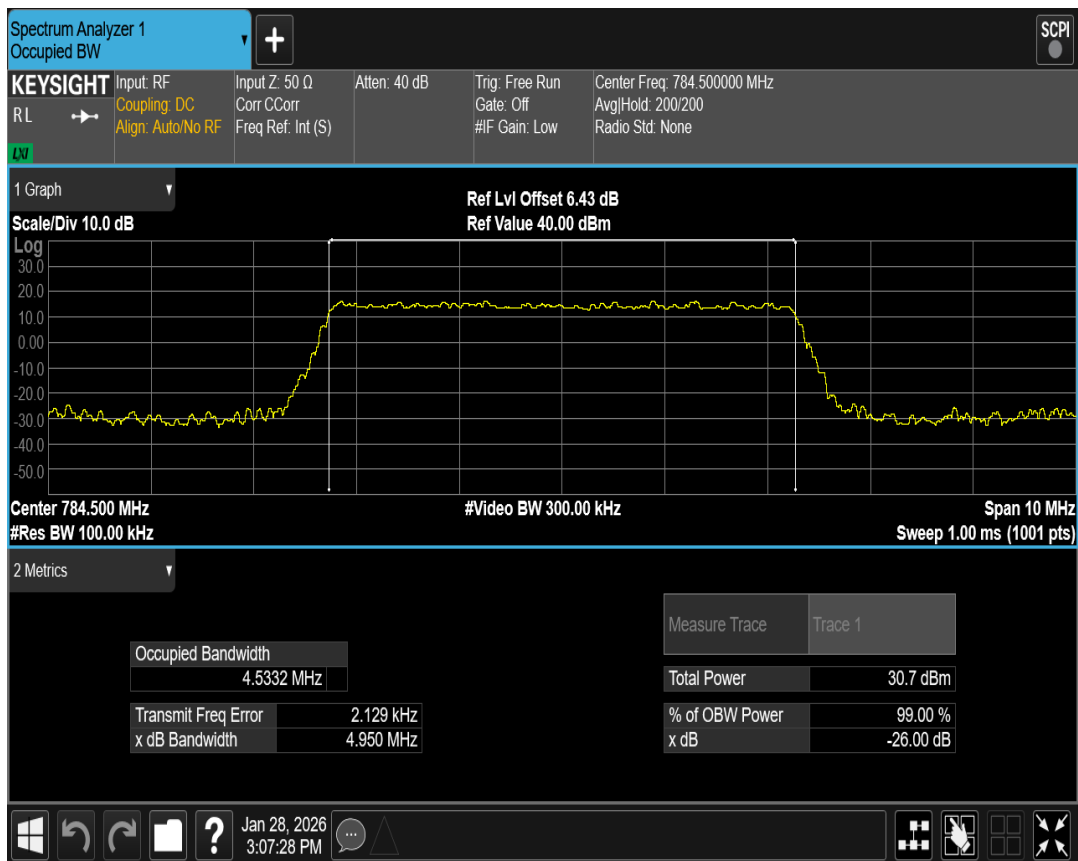
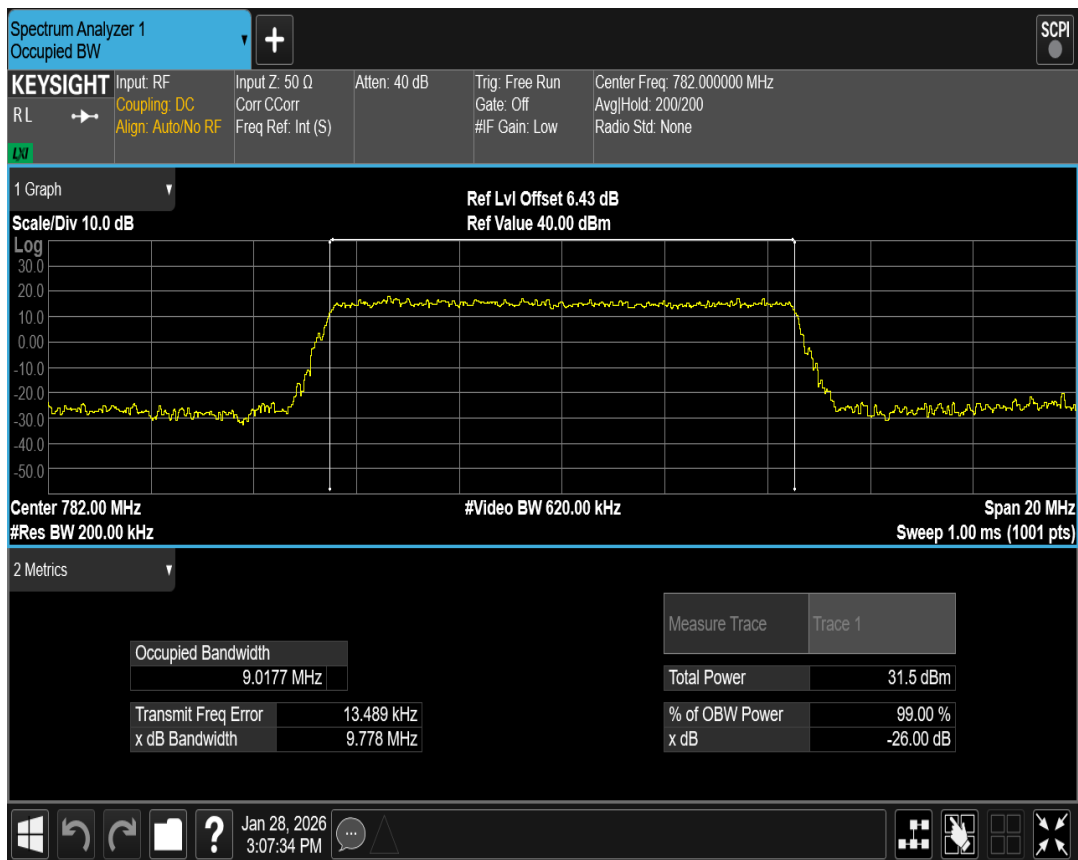
Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0

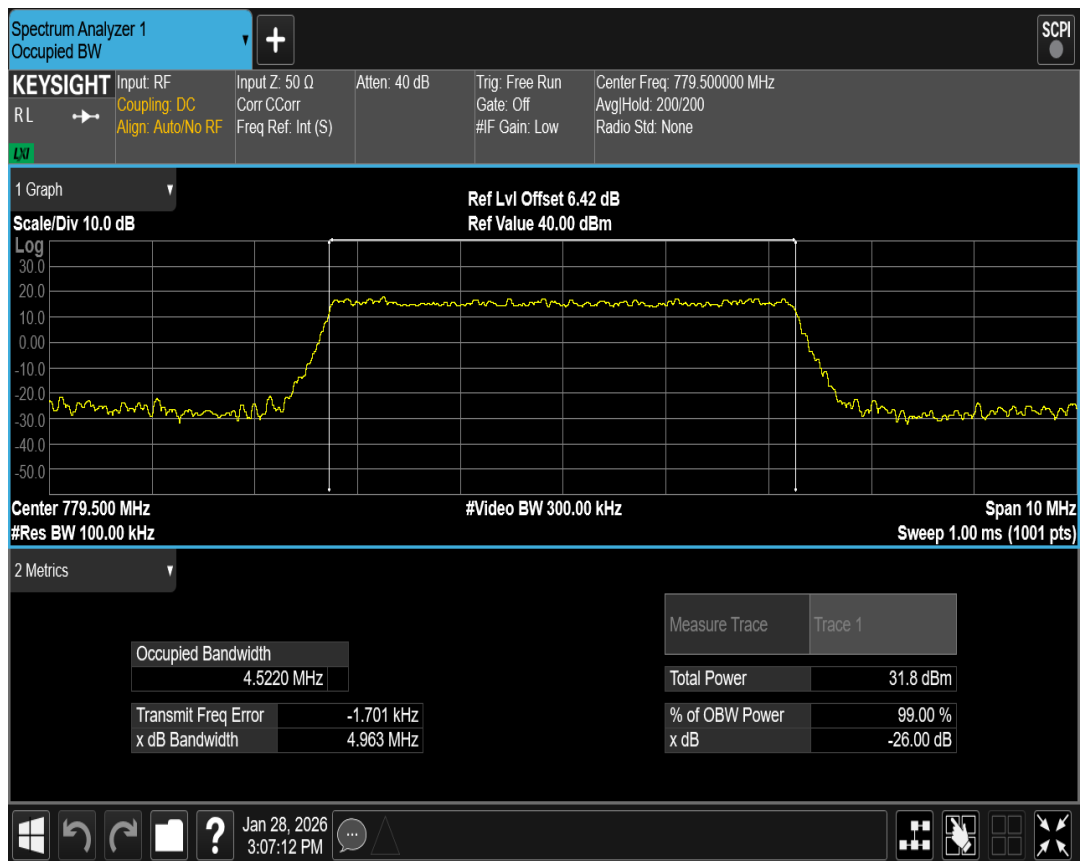


Band13 QAM16 BW=5MHz Channel=23230 RB Size=25 Position=#0

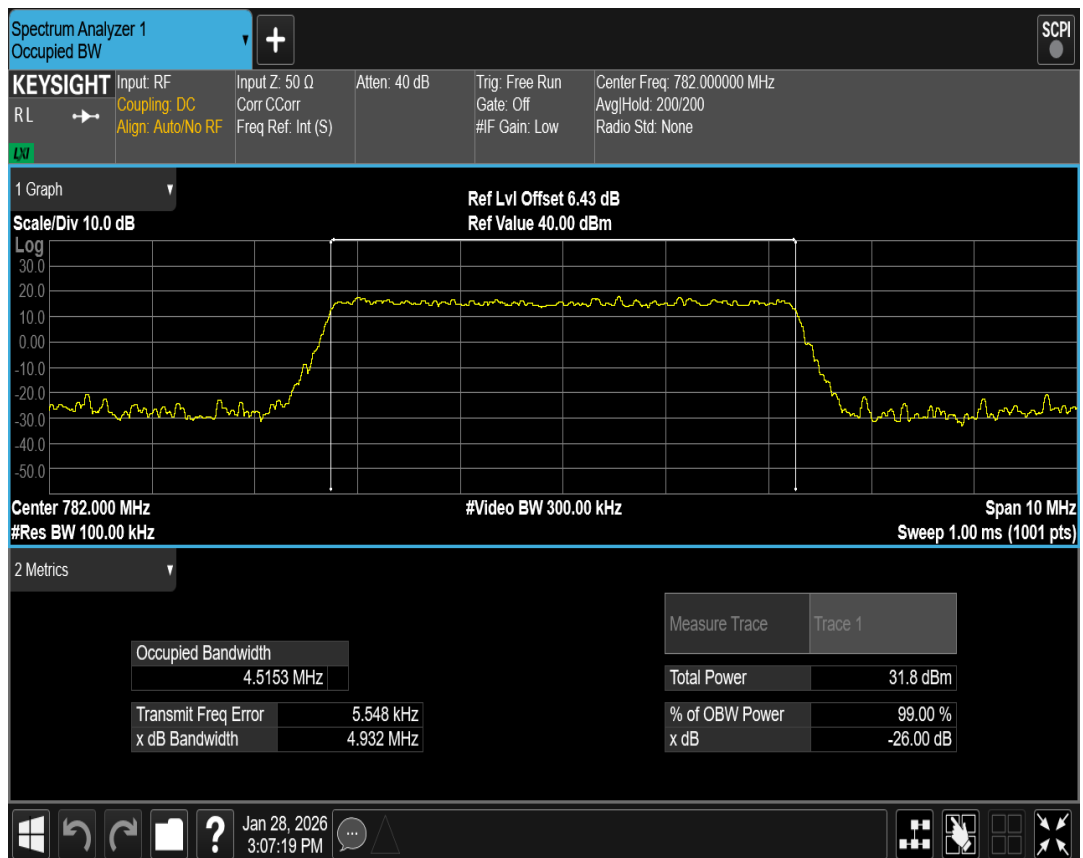


Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0

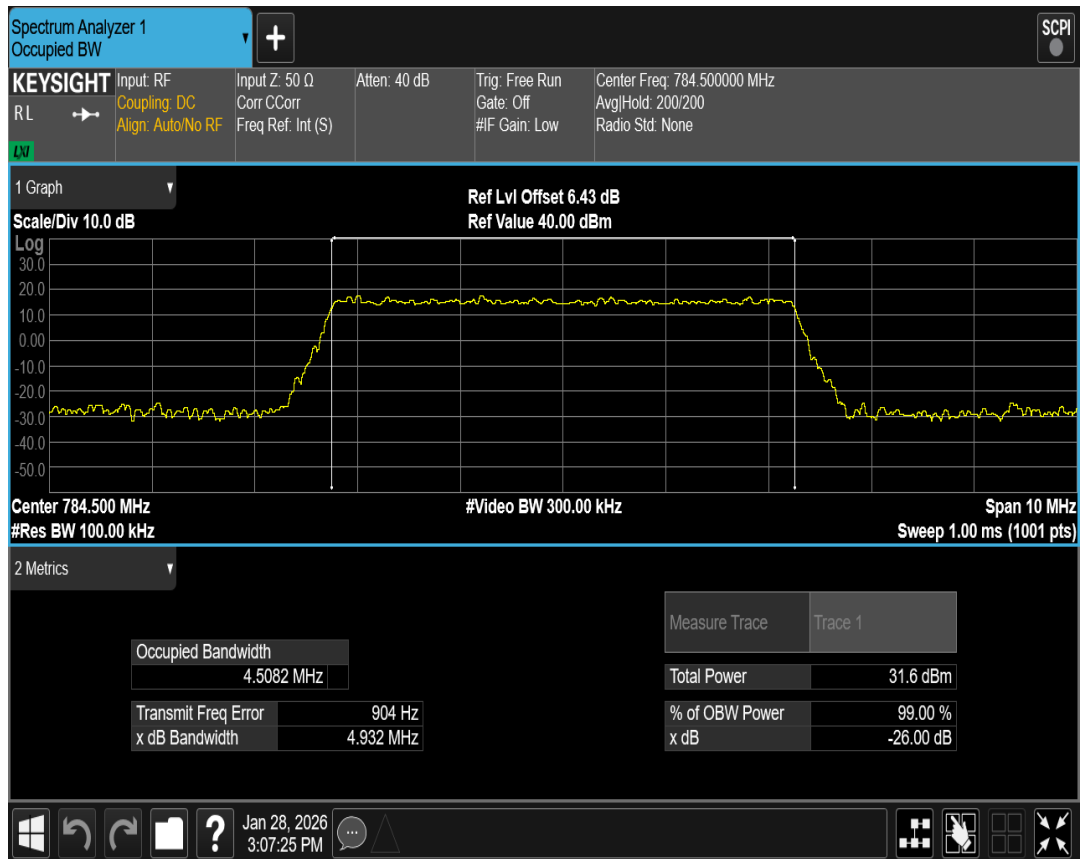
**Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0****Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0**



Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0



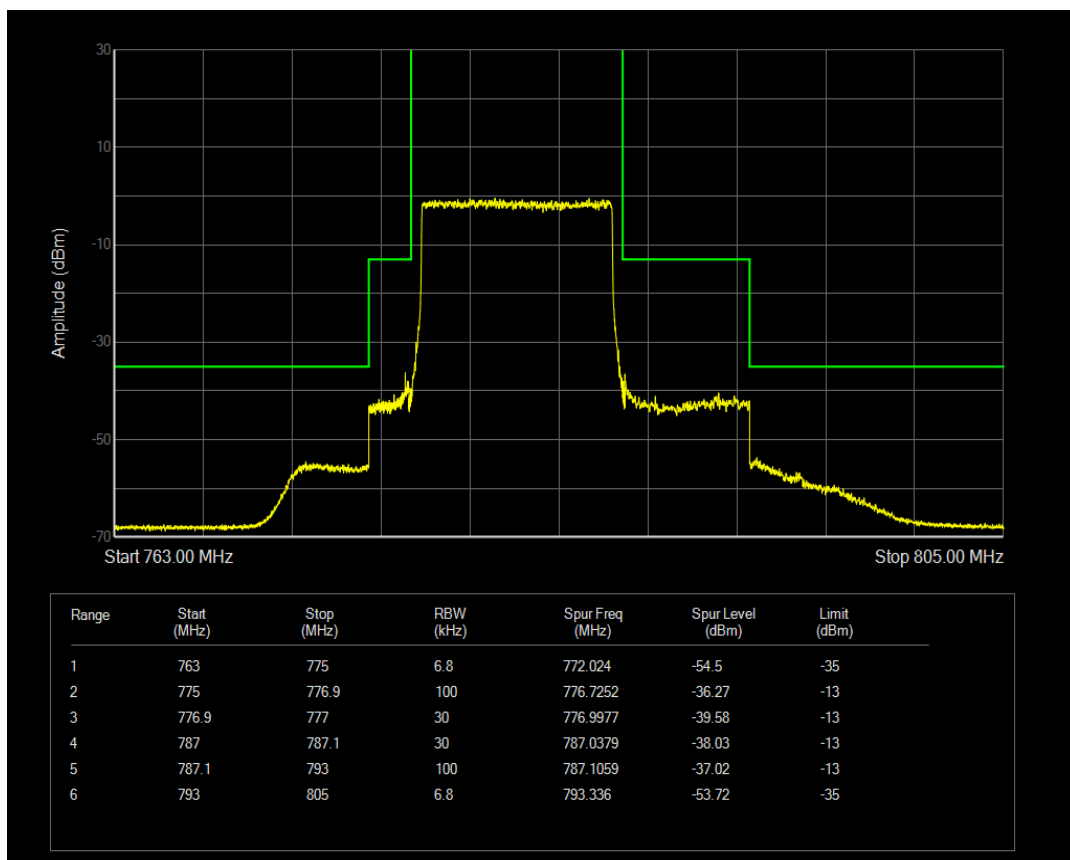
Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0



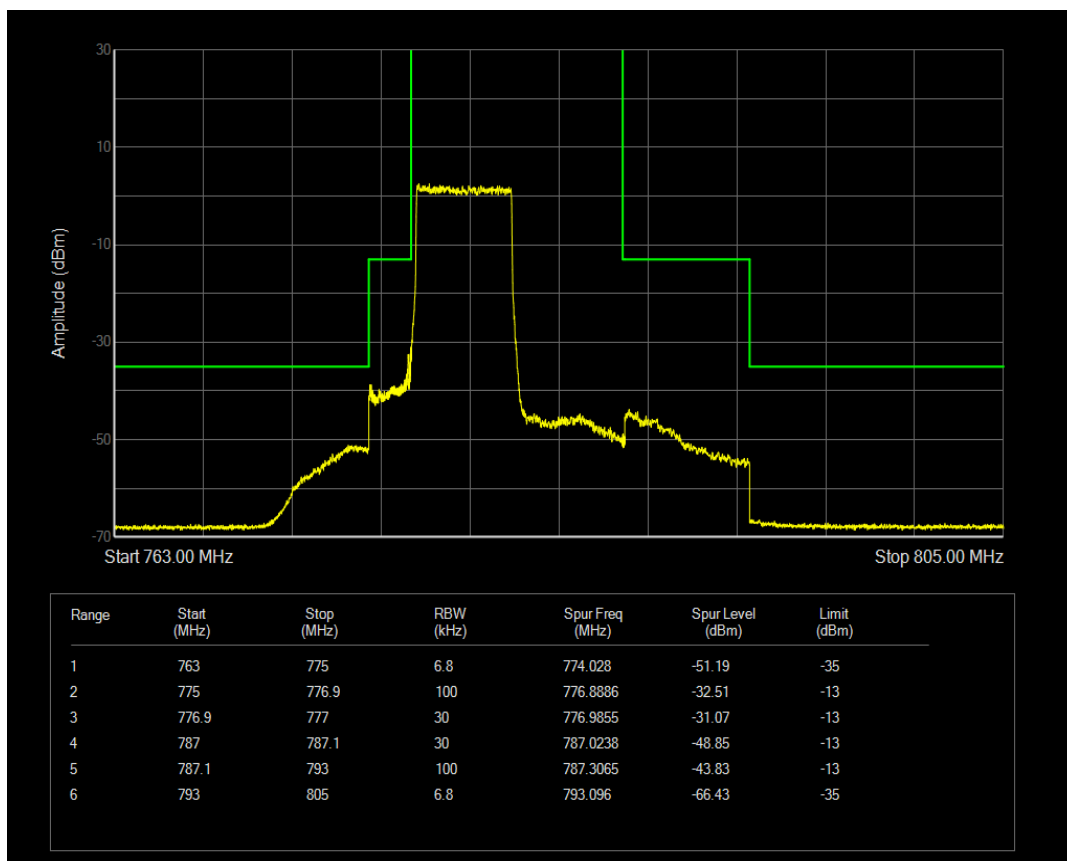
5 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	25	#0	QPSK	773.94	-48.23	-35	PASS
Band13	5	23205	25	#0	QAM16	774.03	-51.19	-35	PASS
Band13	5	23255	25	#0	QPSK	787.11	-32.20	-13	PASS
Band13	5	23255	25	#0	QAM16	787.01	-32.35	-13	PASS
Band13	10	23230	50	#0	QPSK	793.06	-50.37	-35	PASS
Band13	10	23230	50	#0	QAM16	793.34	-53.72	-35	PASS

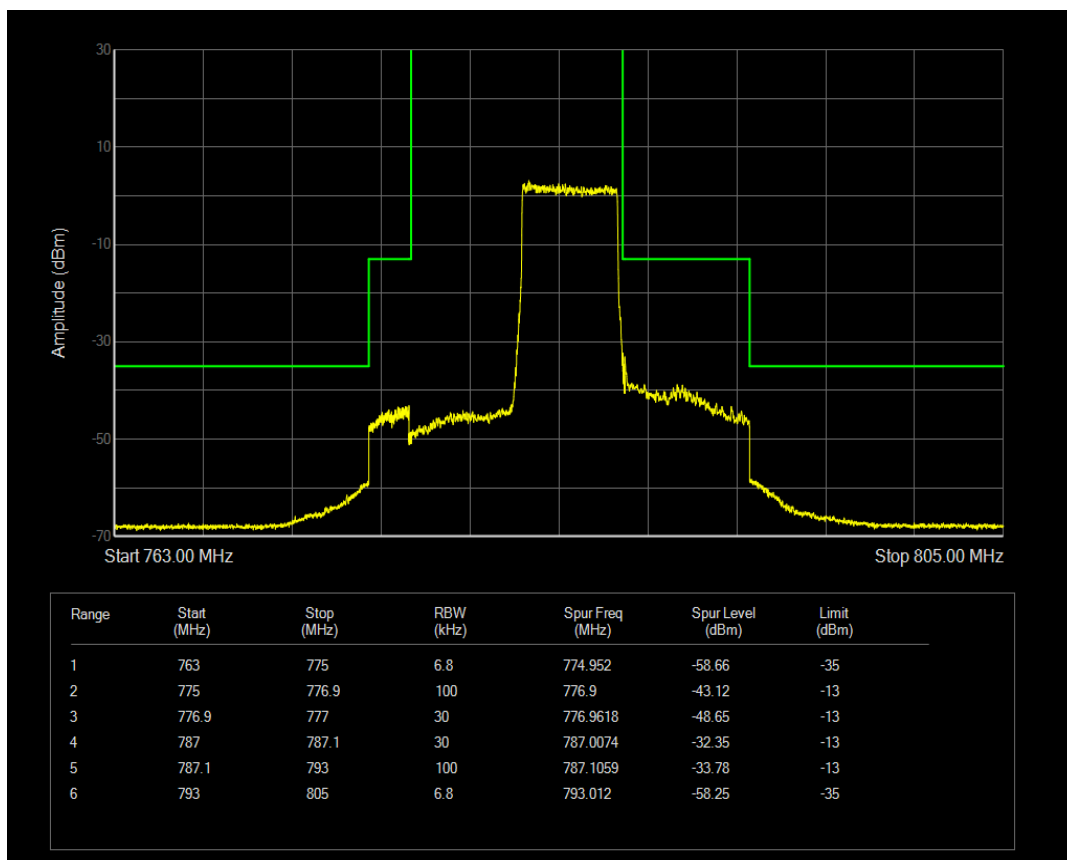
Band13 QAM16 BW=10MHz Channel=23230 RB Size=50 Position=#0



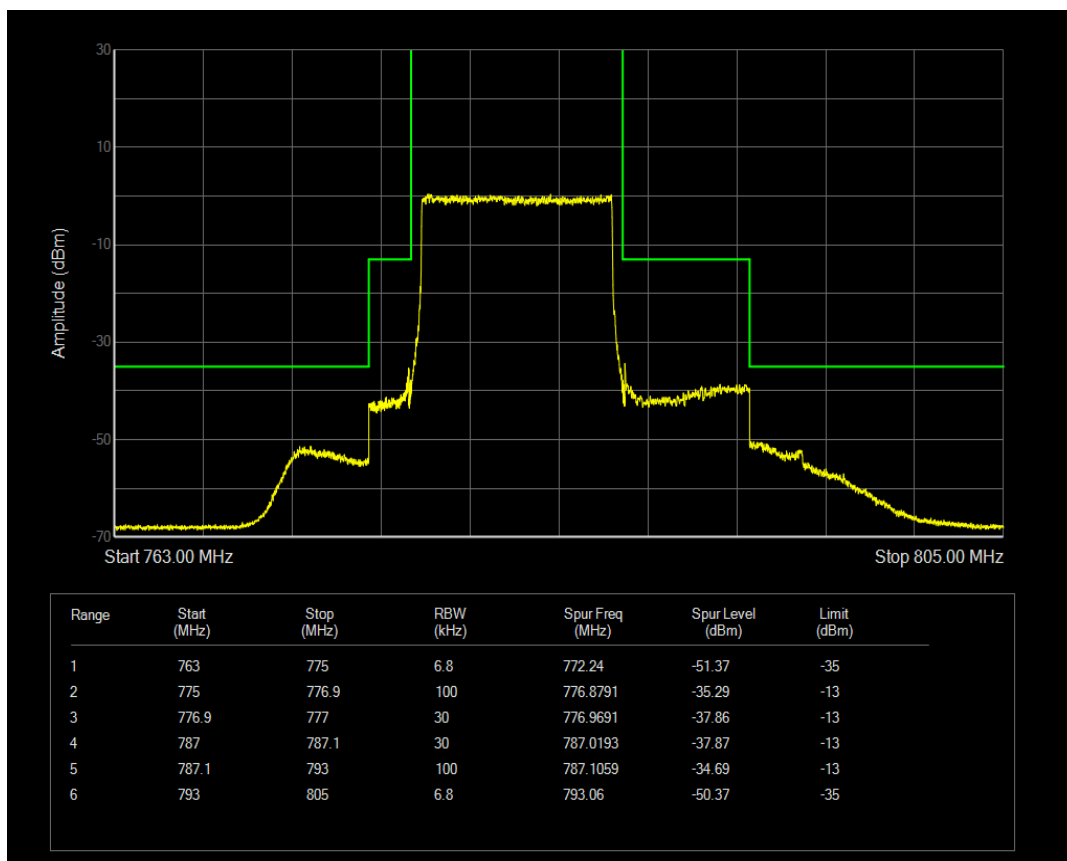
Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0



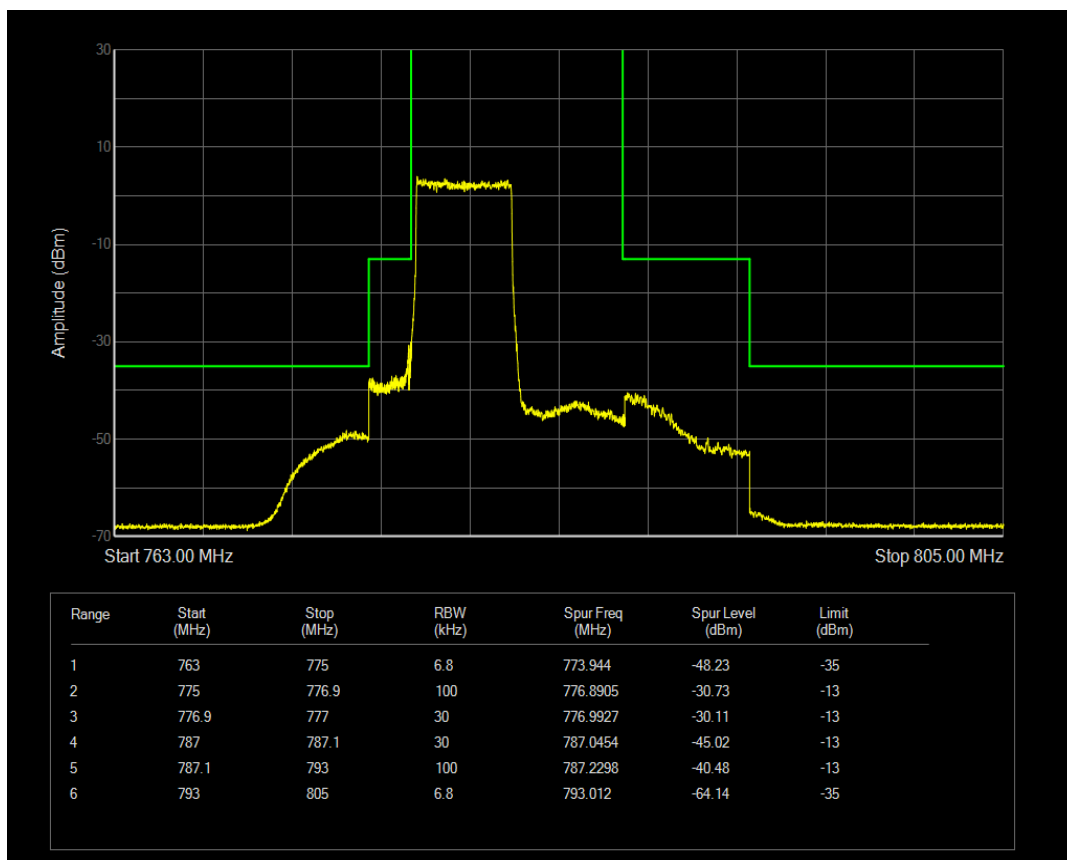
Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



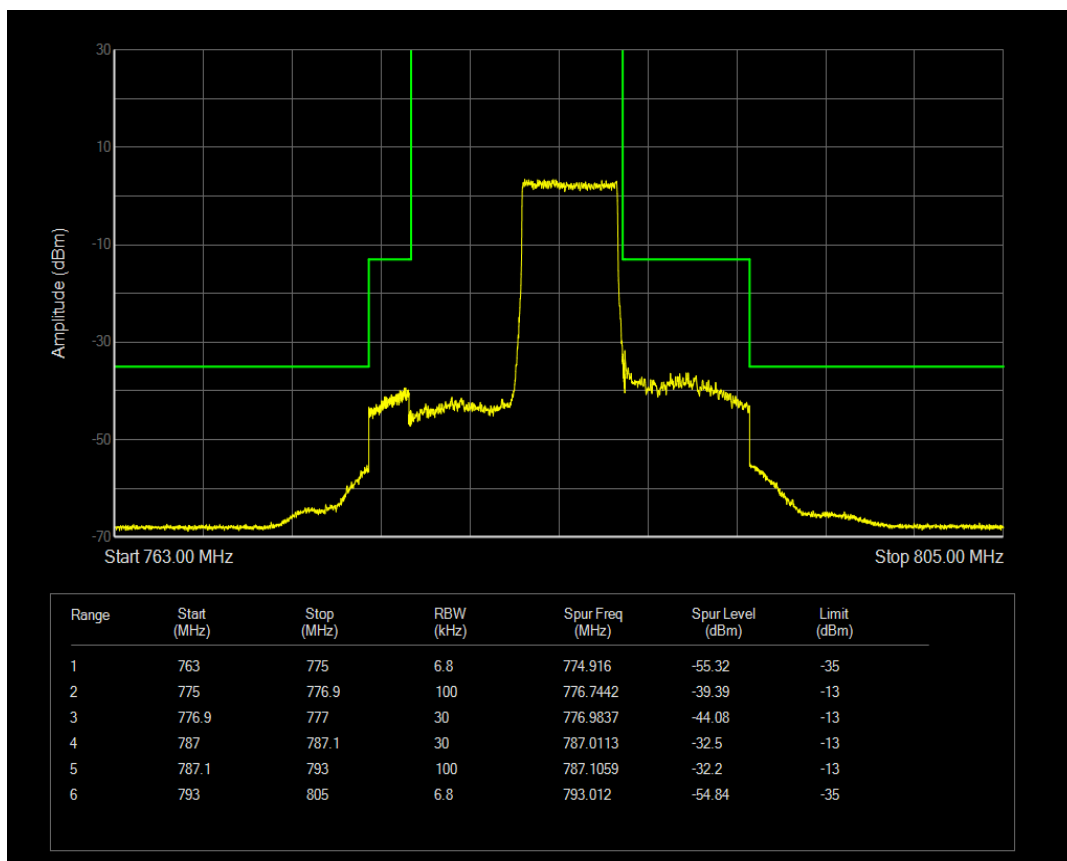
Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



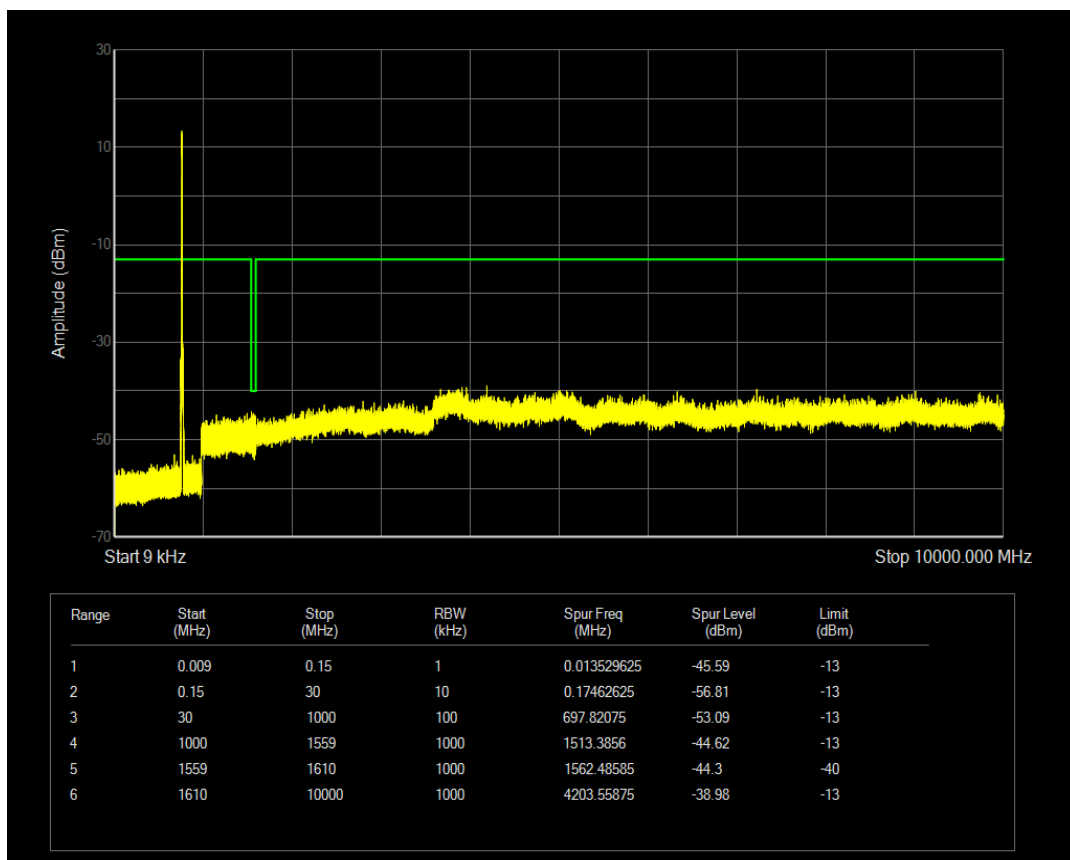
Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0



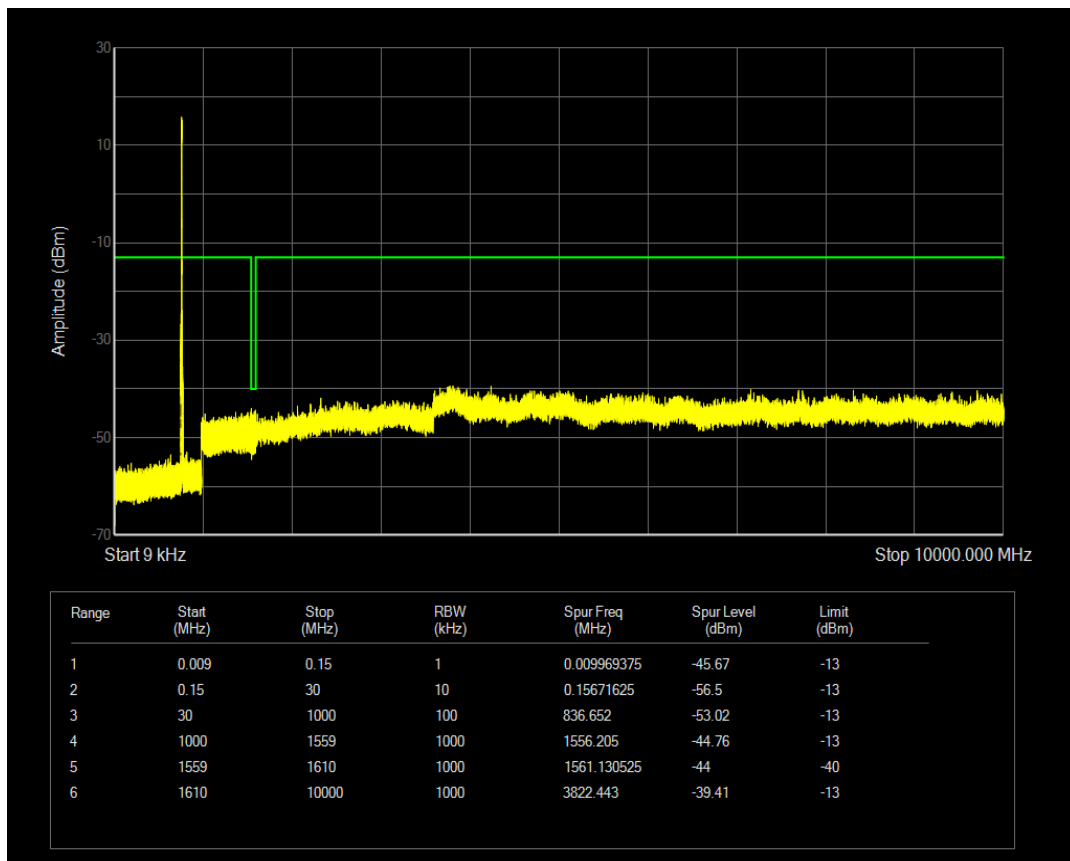
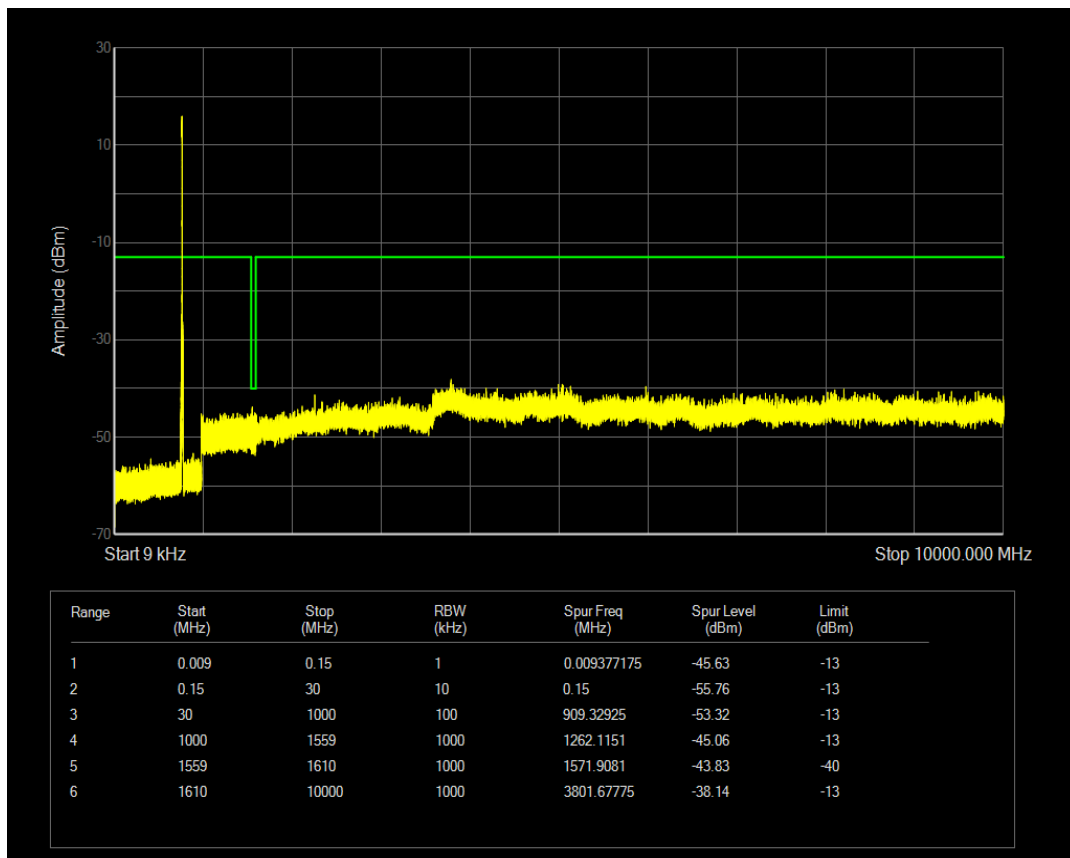
6 Out-of-band emissions

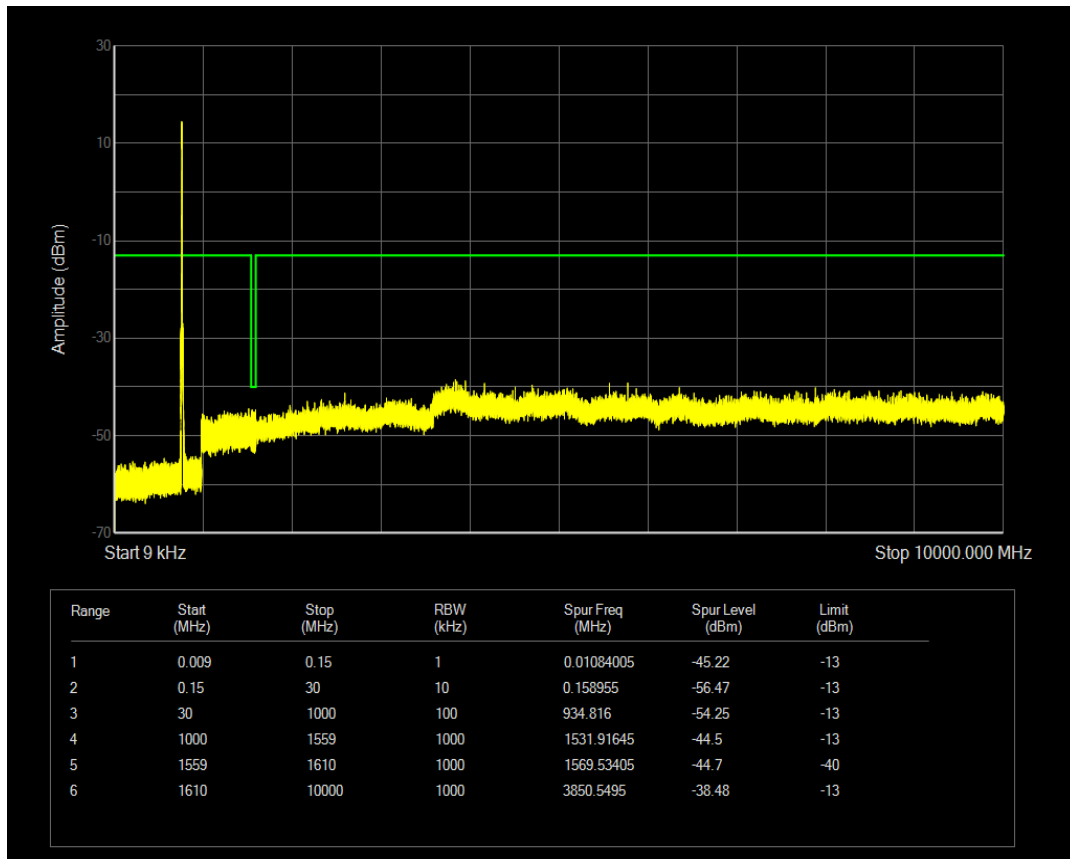
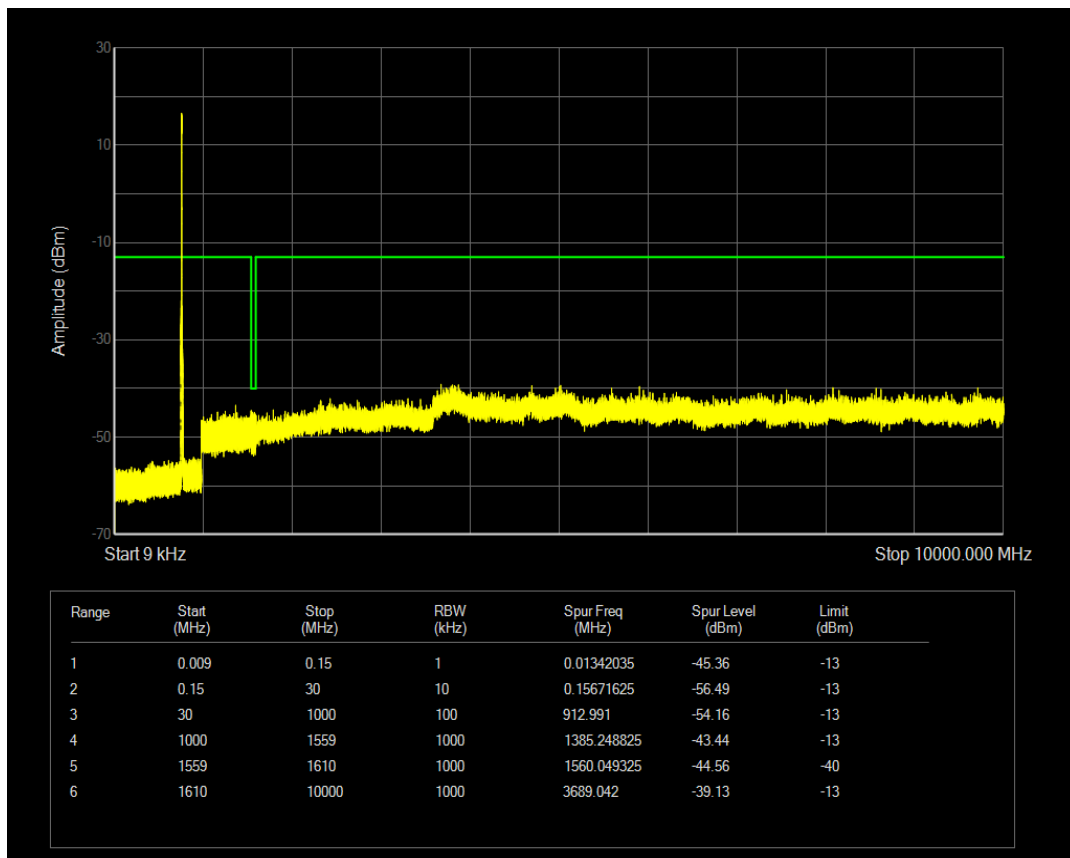
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	25	#0	QPSK	1560.05	-44.56	-40	PASS
Band13	5	23205	25	#0	QAM16	1561.13	-44.00	-40	PASS
Band13	5	23255	25	#0	QPSK	1567.22	-44.20	-40	PASS
Band13	5	23255	25	#0	QAM16	1571.91	-43.83	-40	PASS
Band13	10	23230	50	#0	QPSK	1569.53	-44.70	-40	PASS
Band13	10	23230	50	#0	QAM16	1562.49	-44.30	-40	PASS

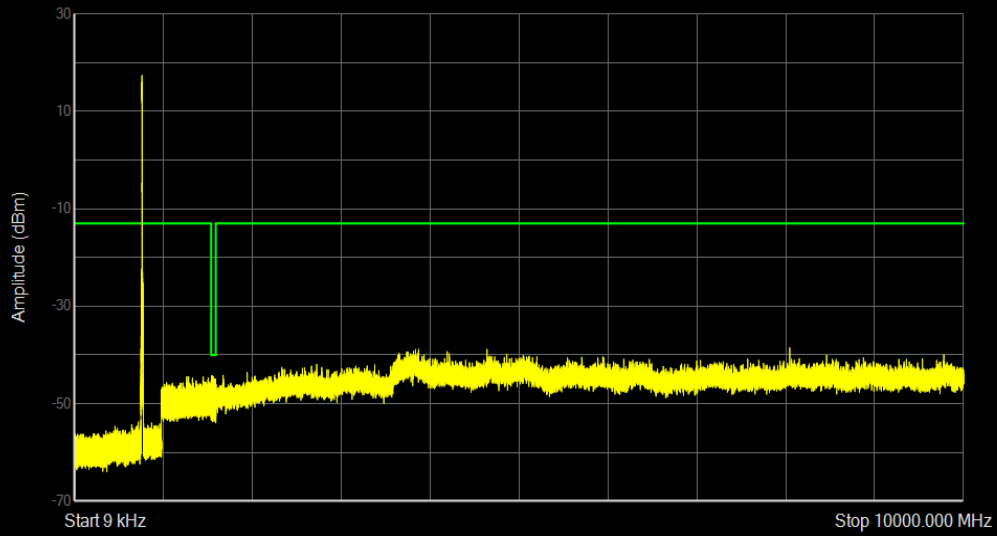
Band13 QAM16 BW=10MHz Channel=23230 RB Size=50 Position=#0



Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0

**Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0****Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0**

**Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0****Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0**



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012845775	-45.15	-13
2	0.15	30	10	0.170895	-56.05	-13
3	30	1000	100	741.592	-53.77	-13
4	1000	1559	1000	1285.411425	-44.48	-13
5	1559	1610	1000	1567.2212	-44.2	-40
6	1610	10000	1000	8049.53475	-38.54	-13