

Appendix for Band 13

Report No.: BCTC2504038495-1E

Applicant: Shenzhen Minew Technologies Co., Ltd.

Product Name: 4G Gateway

Test Model: MG6

Tested Date: 2025-05-06 to 2025-06-27

Issued Date: 2025-07-17

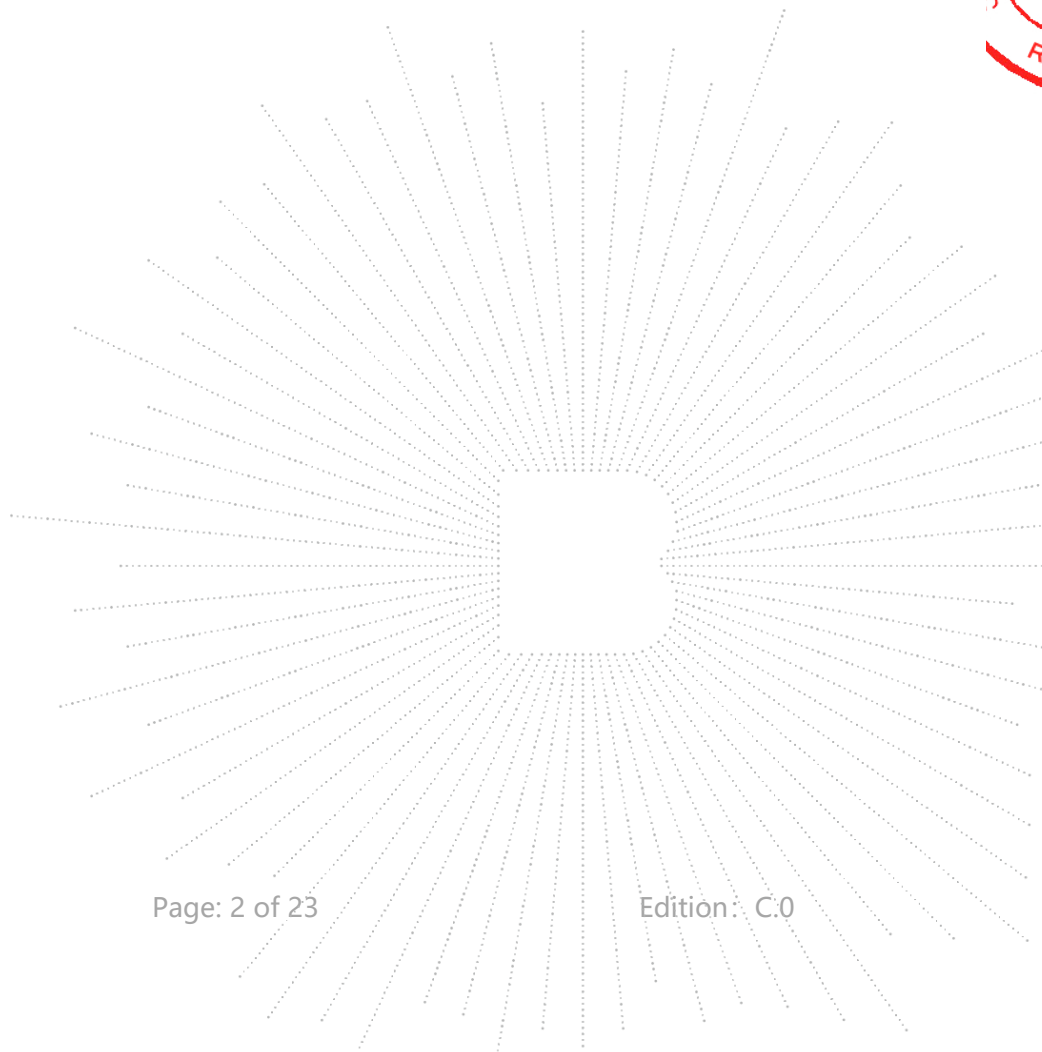
Shenzhen BCTC Testing Co., Ltd.





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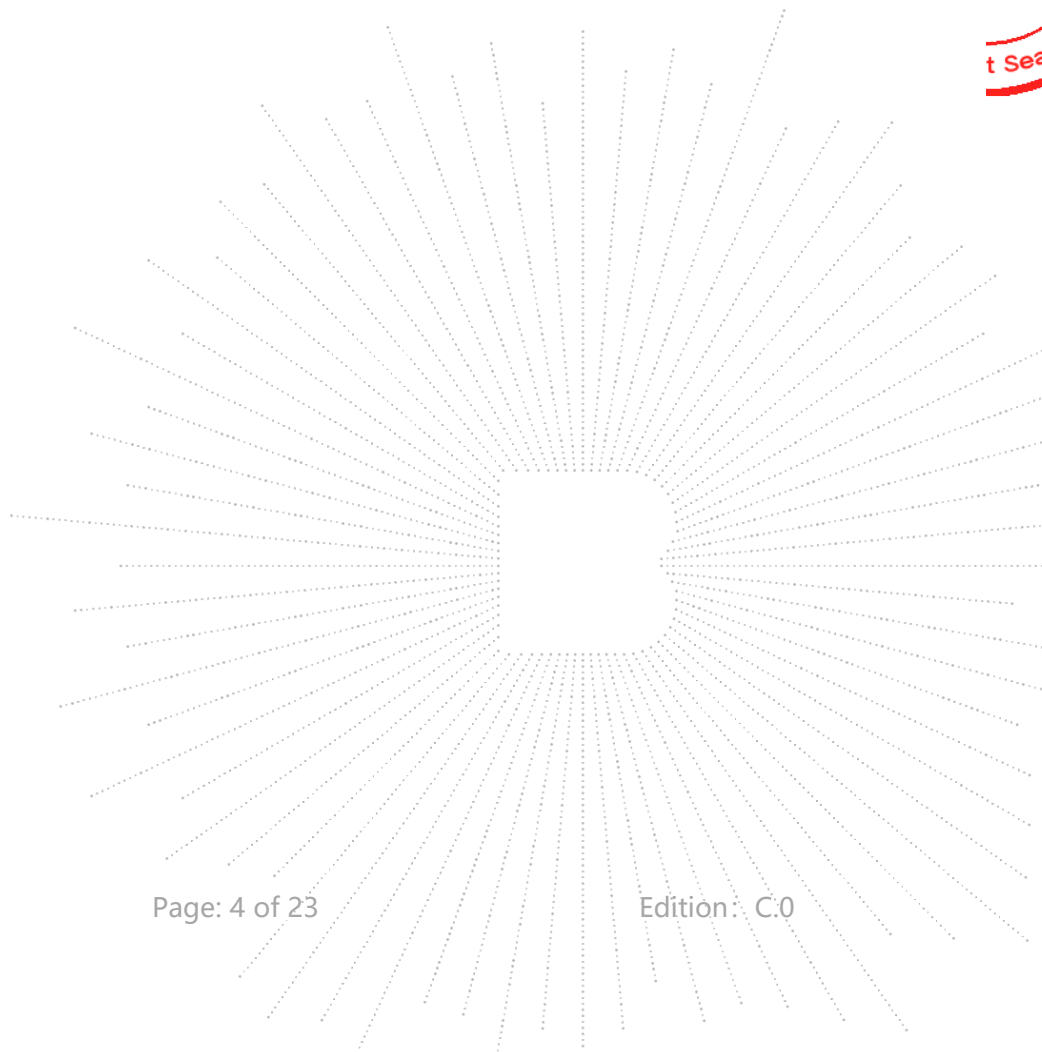
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Appendix 1. Conducted output power

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
NVNT	Band13	5	23205	1	#0	QPSK	23.39	PASS
NVNT	Band13	5	23205	1	#Mid	QPSK	23.16	PASS
NVNT	Band13	5	23205	1	#Max	QPSK	22.82	PASS
NVNT	Band13	5	23205	12	#0	QPSK	22.52	PASS
NVNT	Band13	5	23205	12	#Mid	QPSK	22.36	PASS
NVNT	Band13	5	23205	12	#Max	QPSK	22.16	PASS
NVNT	Band13	5	23205	25	#0	QPSK	22.29	PASS
NVNT	Band13	5	23205	1	#0	16QAM	22.86	PASS
NVNT	Band13	5	23205	1	#Mid	16QAM	22.67	PASS
NVNT	Band13	5	23205	1	#Max	16QAM	22.38	PASS
NVNT	Band13	5	23205	12	#0	16QAM	21.50	PASS
NVNT	Band13	5	23205	12	#Mid	16QAM	21.35	PASS
NVNT	Band13	5	23205	12	#Max	16QAM	21.16	PASS
NVNT	Band13	5	23205	25	#0	16QAM	21.37	PASS
NVNT	Band13	5	23230	1	#0	QPSK	22.97	PASS
NVNT	Band13	5	23230	1	#Mid	QPSK	22.63	PASS
NVNT	Band13	5	23230	1	#Max	QPSK	22.72	PASS
NVNT	Band13	5	23230	12	#0	QPSK	21.92	PASS
NVNT	Band13	5	23230	12	#Mid	QPSK	21.77	PASS
NVNT	Band13	5	23230	12	#Max	QPSK	21.75	PASS
NVNT	Band13	5	23230	25	#0	QPSK	21.84	PASS
NVNT	Band13	5	23230	1	#0	16QAM	22.31	PASS
NVNT	Band13	5	23230	1	#Mid	16QAM	21.99	PASS
NVNT	Band13	5	23230	1	#Max	16QAM	22.09	PASS
NVNT	Band13	5	23230	12	#0	16QAM	21.00	PASS
NVNT	Band13	5	23230	12	#Mid	16QAM	20.85	PASS
NVNT	Band13	5	23230	12	#Max	16QAM	20.85	PASS
NVNT	Band13	5	23230	25	#0	16QAM	20.97	PASS
NVNT	Band13	5	23255	1	#0	QPSK	22.84	PASS
NVNT	Band13	5	23255	1	#Mid	QPSK	22.97	PASS
NVNT	Band13	5	23255	1	#Max	QPSK	23.20	PASS
NVNT	Band13	5	23255	12	#0	QPSK	21.95	PASS
NVNT	Band13	5	23255	12	#Mid	QPSK	22.05	PASS
NVNT	Band13	5	23255	12	#Max	QPSK	22.27	PASS
NVNT	Band13	5	23255	25	#0	QPSK	22.16	PASS
NVNT	Band13	5	23255	1	#0	16QAM	22.50	PASS
NVNT	Band13	5	23255	1	#Mid	16QAM	22.68	PASS
NVNT	Band13	5	23255	1	#Max	16QAM	22.92	PASS
NVNT	Band13	5	23255	12	#0	16QAM	21.13	PASS

NVNT	Band13	5	23255	12	#Mid	16QAM	21.27	PASS
NVNT	Band13	5	23255	12	#Max	16QAM	21.38	PASS
NVNT	Band13	5	23255	25	#0	16QAM	21.24	PASS
NVNT	Band13	10	23230	1	#0	QPSK	23.70	PASS
NVNT	Band13	10	23230	1	#Mid	QPSK	23.16	PASS
NVNT	Band13	10	23230	1	#Max	QPSK	23.40	PASS
NVNT	Band13	10	23230	25	#0	QPSK	22.61	PASS
NVNT	Band13	10	23230	25	#Mid	QPSK	22.34	PASS
NVNT	Band13	10	23230	25	#Max	QPSK	22.45	PASS
NVNT	Band13	10	23230	50	#0	QPSK	22.49	PASS



Appendix 2. Frequency stability

Condi tion	Ban d	Bandw idth (MHz)	UL Chan nel	R B Si ze	RB Posit ion	Modul ation	Volt age (Vdc)	Temper ature (C)	Res ult (Hz)	Res ult (pp m)	Lo w Lim it (pp m)	hig h Lim it (pp m)	Ver dict
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	-30	-0.0 3	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	-20	-0.1 4	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	0	-0.0 7	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	10	-0.3 4	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	20	-0.4 0	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	30	-0.2 6	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	40	-0.8 9	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	QPSK	NV	50	-0.2 3	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	-30	-0.6 4	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	-20	-0.5 1	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	0	-0.0 9	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	10	-0.3 7	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	20	-0.3 9	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	30	-0.5 0	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	40	0.01	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2320 5	25	#0	16QAM	NV	50	0.16	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	-30	-0.0 7	0.00 0	-2.5	2.5	PAS S
NVNT	Ban	5	2323	25	#0	QPSK	NV	-20	-0.4	-0.0	-2.5	2.5	PAS



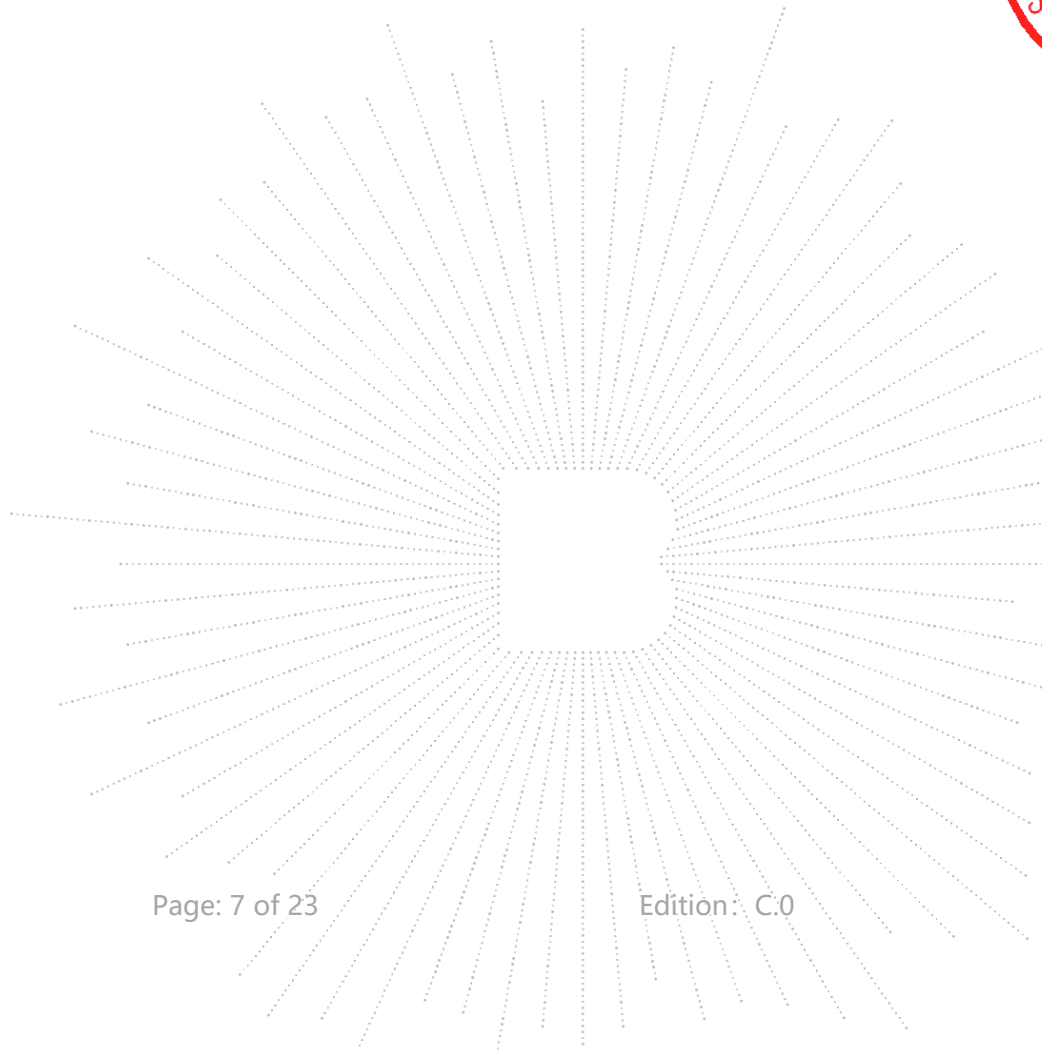
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NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	0	-0.2 0	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	10	-0.5 9	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	20	-0.6 6	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	30	0.00	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	40	-1.0 6	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	QPSK	NV	50	0.23	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	-30	-0.0 3	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	-20	-0.4 4	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	0	-0.7 2	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	10	-0.2 3	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	20	-0.9 0	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	30	0.07	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	40	-0.7 2	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2323 0	25	#0	16QAM	NV	50	0.17	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	-30	0.33	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	-20	0.66	0.00 1	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	0	0.66	0.00 1	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	10	-1.0 3	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	20	-0.1 4	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	30	-0.4 4	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	QPSK	NV	40	0.27	0.00 0	-2.5	2.5	PAS S
NVNT	Ban	5	2325	25	#0	QPSK	NV	50	0.07	0.00	-2.5	2.5	PAS

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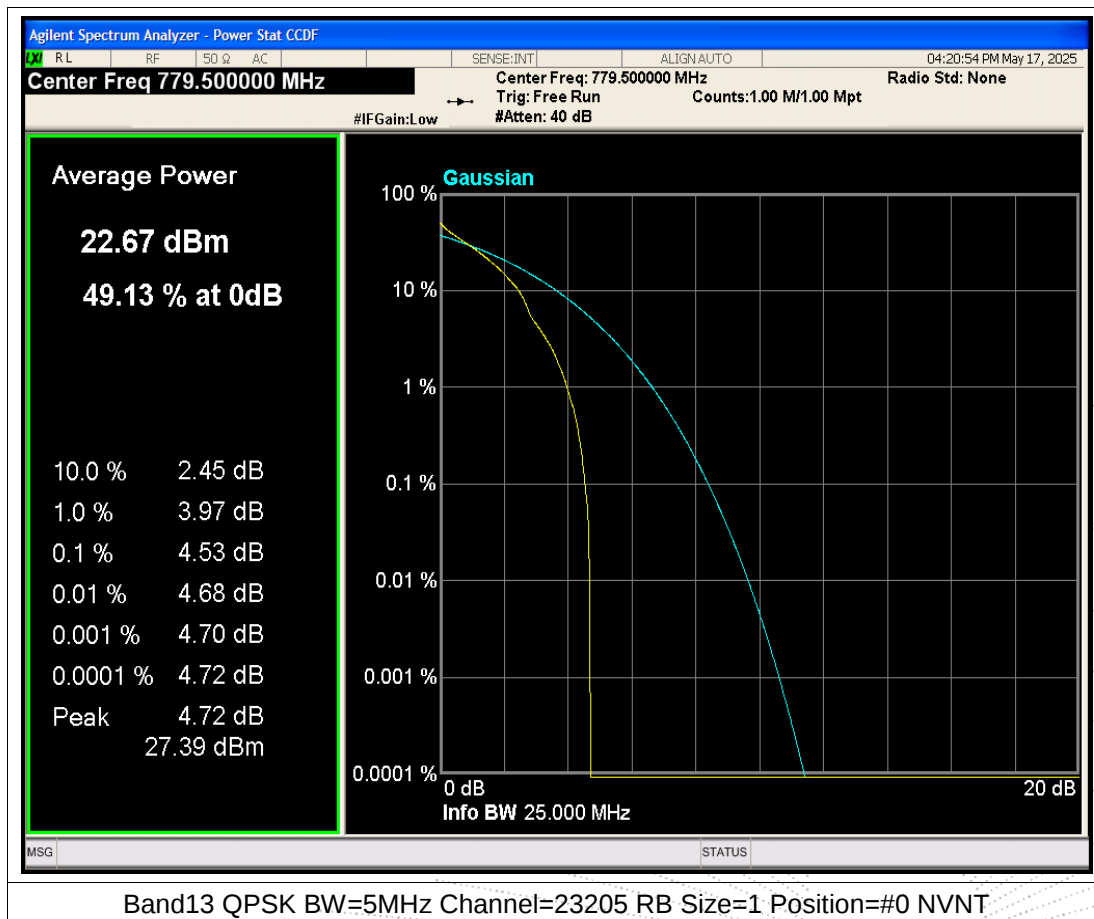
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NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	-20	-0.0 1	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	0	-0.2 4	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	10	-0.1 3	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	20	-0.0 7	0.00 0	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	30	0.59	0.00 1	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	40	-0.5 4	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	5	2325 5	25	#0	16QAM	NV	50	-0.4 1	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	10	2323 0	50	#0	QPSK	LV	NT	-1.1 0	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	10	2323 0	50	#0	QPSK	NV	NT	-0.8 2	-0.0 01	-2.5	2.5	PAS S
NVNT	Ban d13	10	2323 0	50	#0	QPSK	HV	NT	-1.3 7	-0.0 02	-2.5	2.5	PAS S

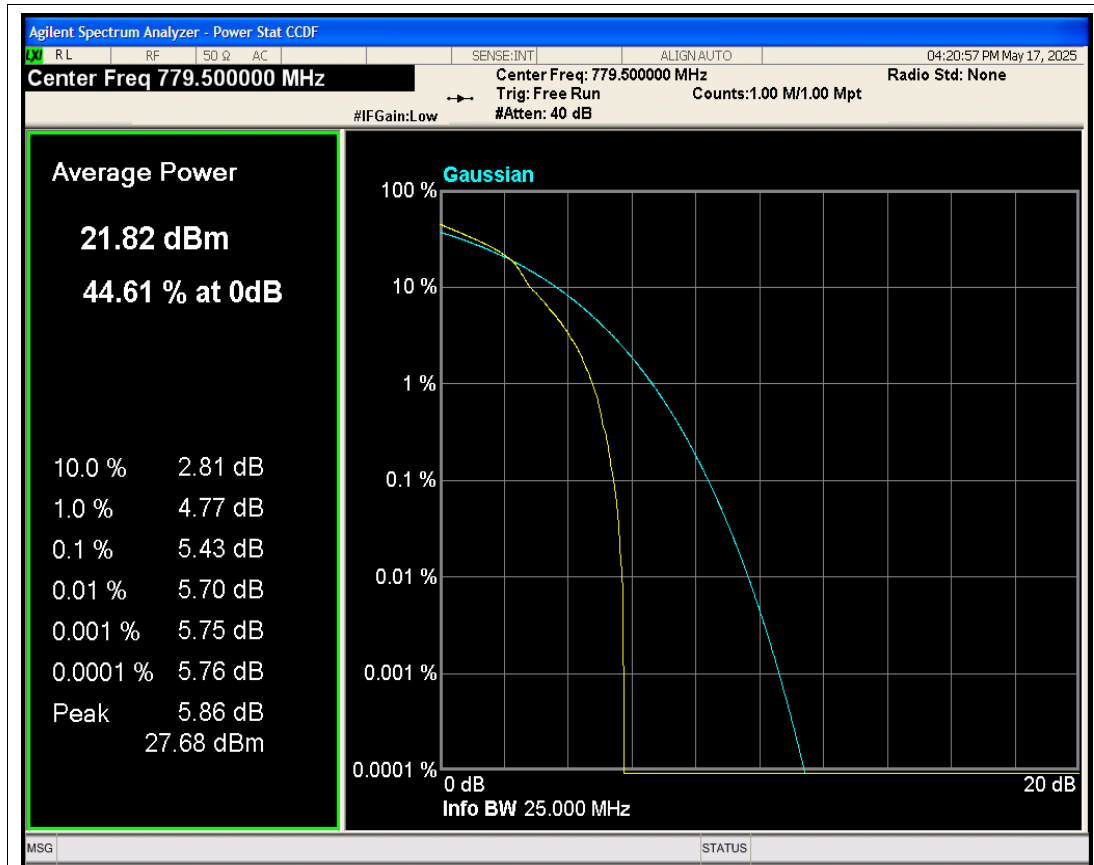
SHENZHEN



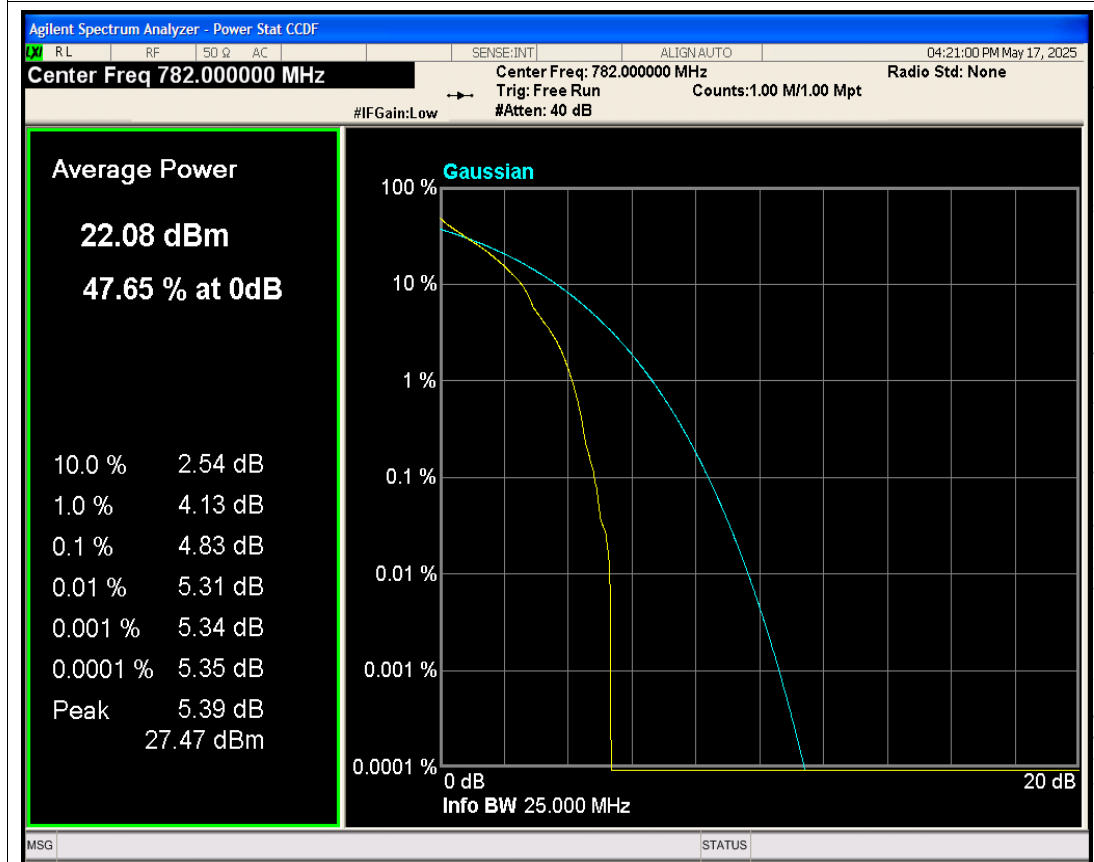
Appendix 3. Peak-to-Average Ratio

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
NVNT	Band13	5	23205	1	#0	QPSK	4.53	13	PASS
NVNT	Band13	5	23205	1	#0	16QAM	5.43	13	PASS
NVNT	Band13	5	23230	1	#0	QPSK	4.83	13	PASS
NVNT	Band13	5	23230	1	#0	16QAM	5.45	13	PASS
NVNT	Band13	5	23255	1	#0	QPSK	5.83	13	PASS
NVNT	Band13	5	23255	1	#0	16QAM	6.14	13	PASS
NVNT	Band13	10	23230	1	#0	QPSK	4.55	13	PASS

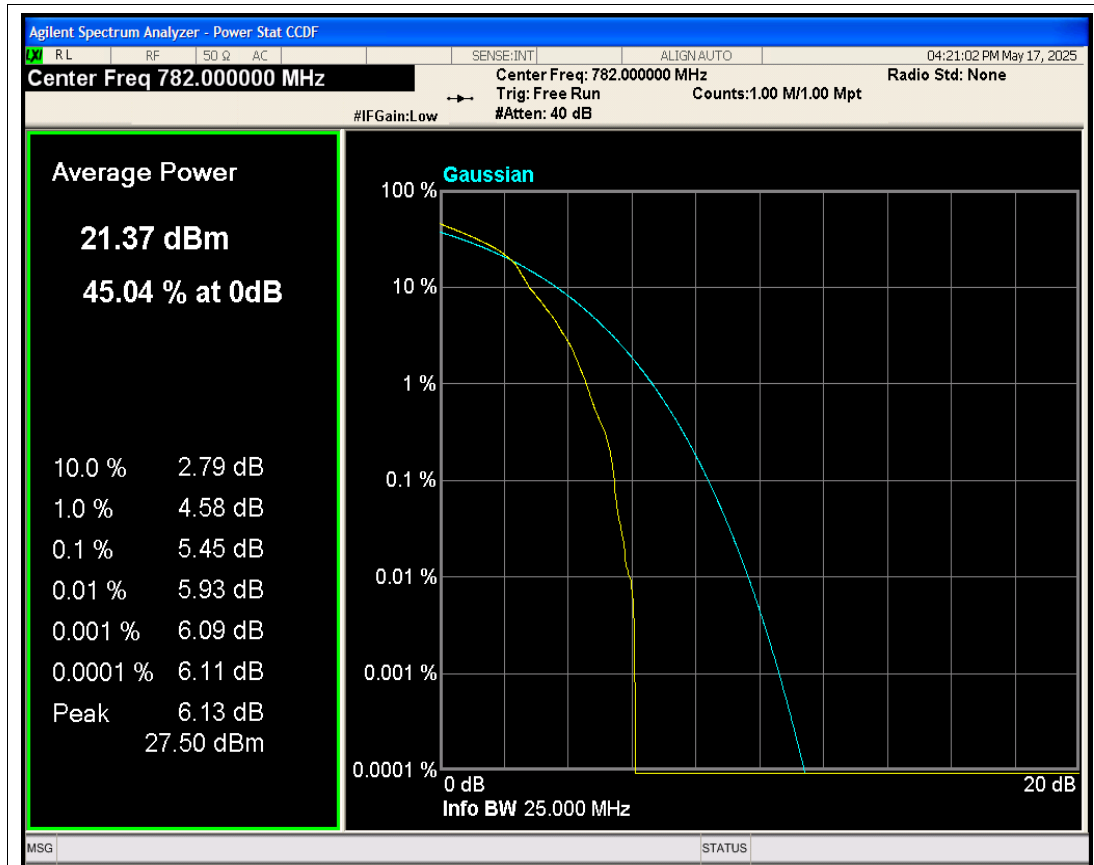




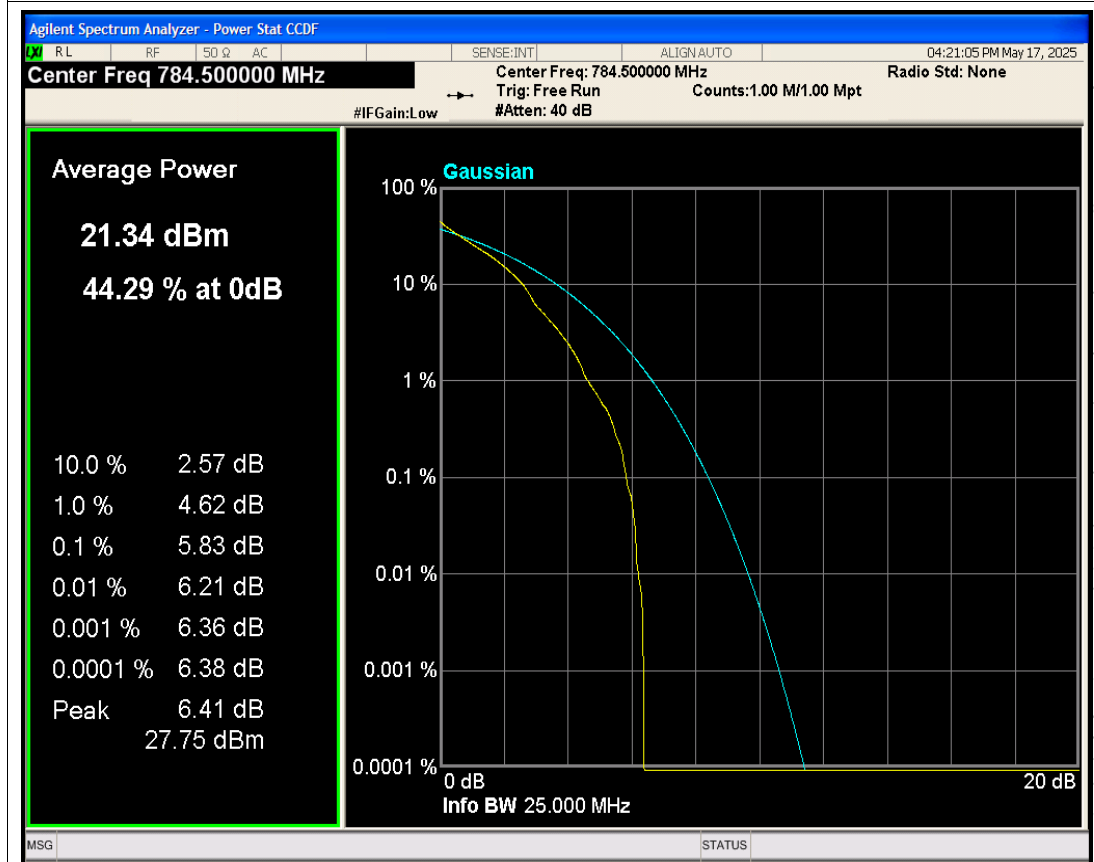
Band13 16QAM BW=5MHz Channel=23205 RB Size=1 Position=#0 NVNT



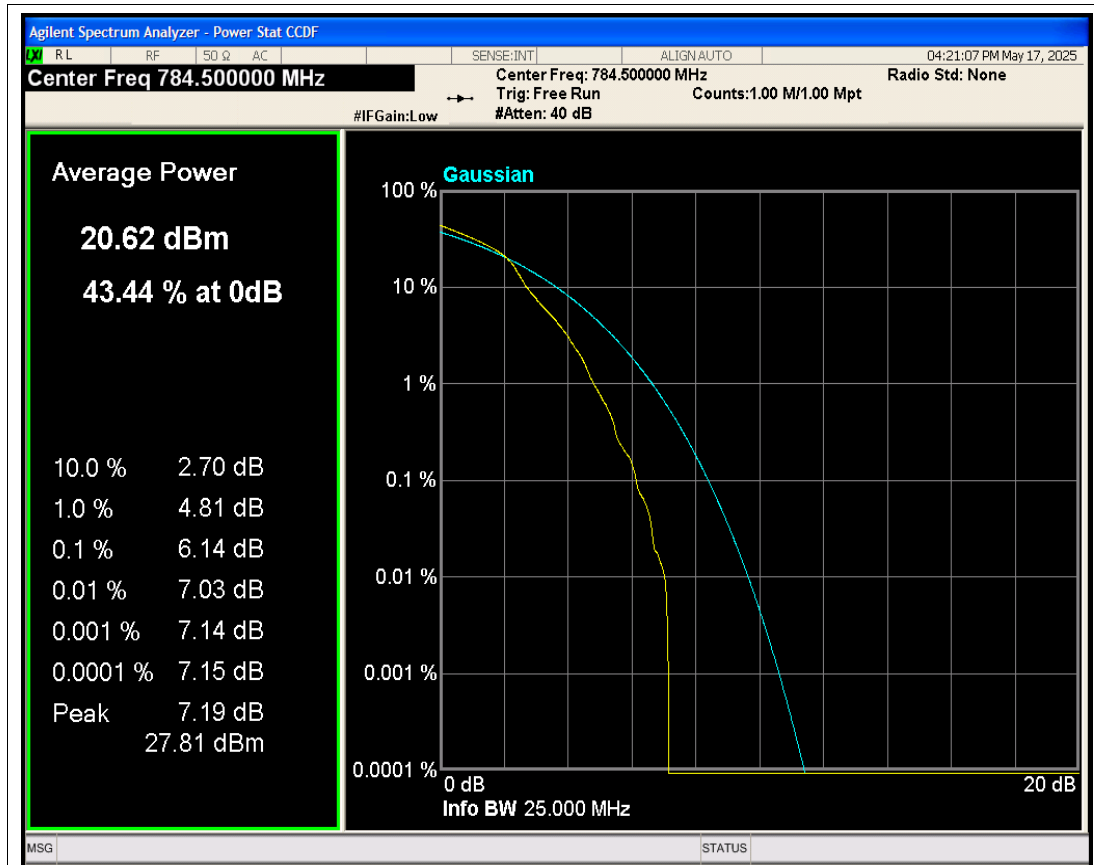
Band13 QPSK BW=5MHz Channel=23230 RB Size=1 Position=#0 NVNT



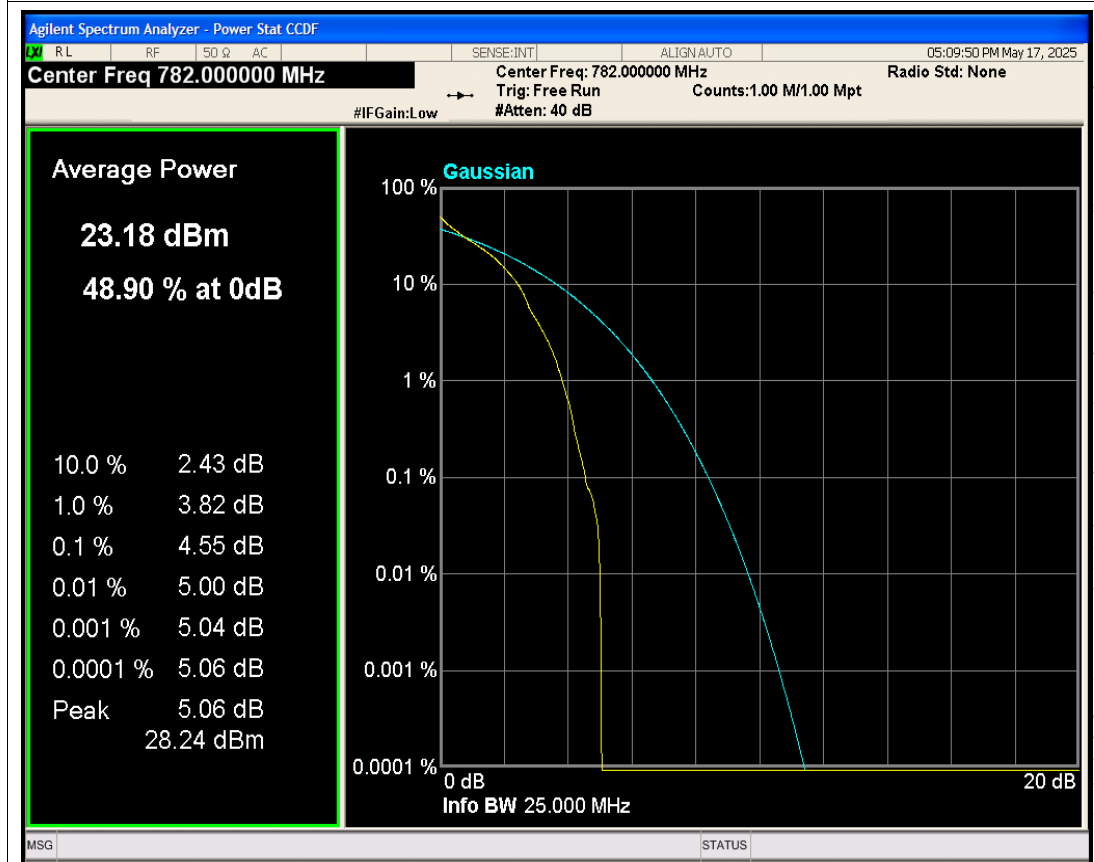
Band13 16QAM BW=5MHz Channel=23230 RB Size=1 Position=#0 NVNT



Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#0 NVNT



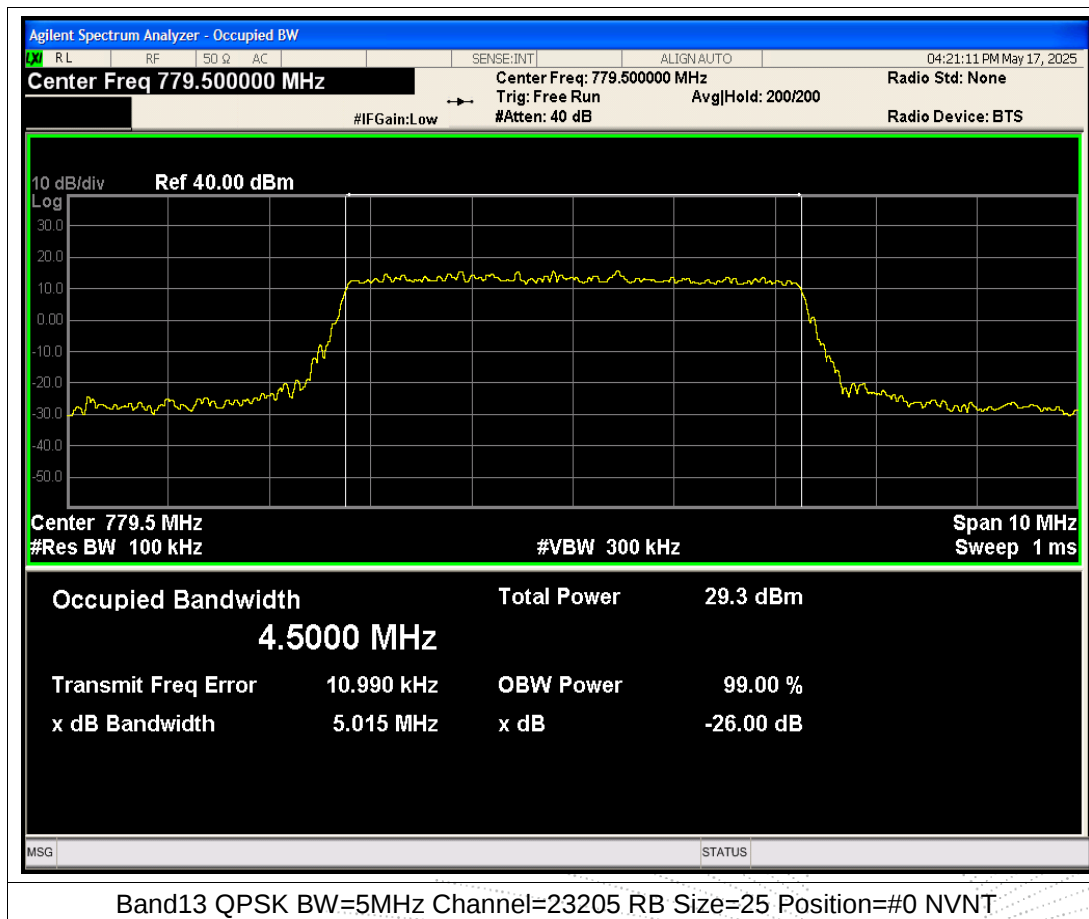
Band13 16QAM BW=5MHz Channel=23255 RB Size=1 Position=#0 NVNT

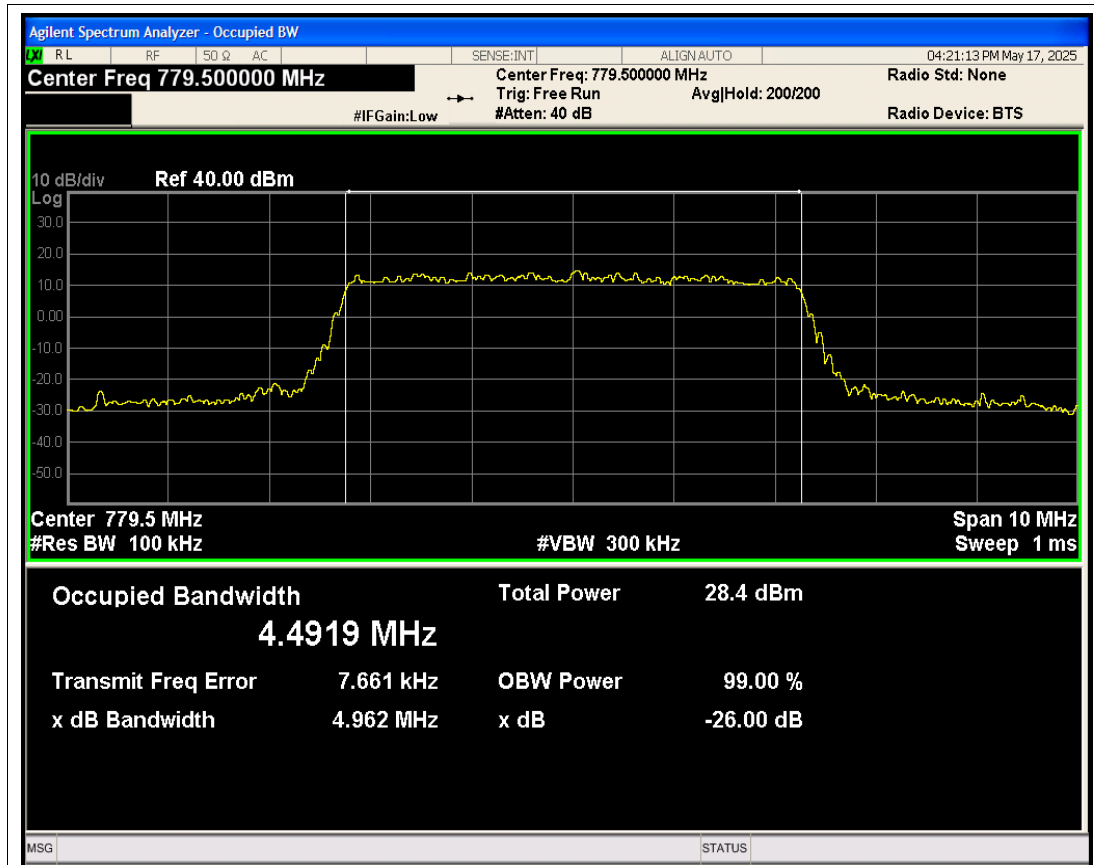


Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0 NVNT

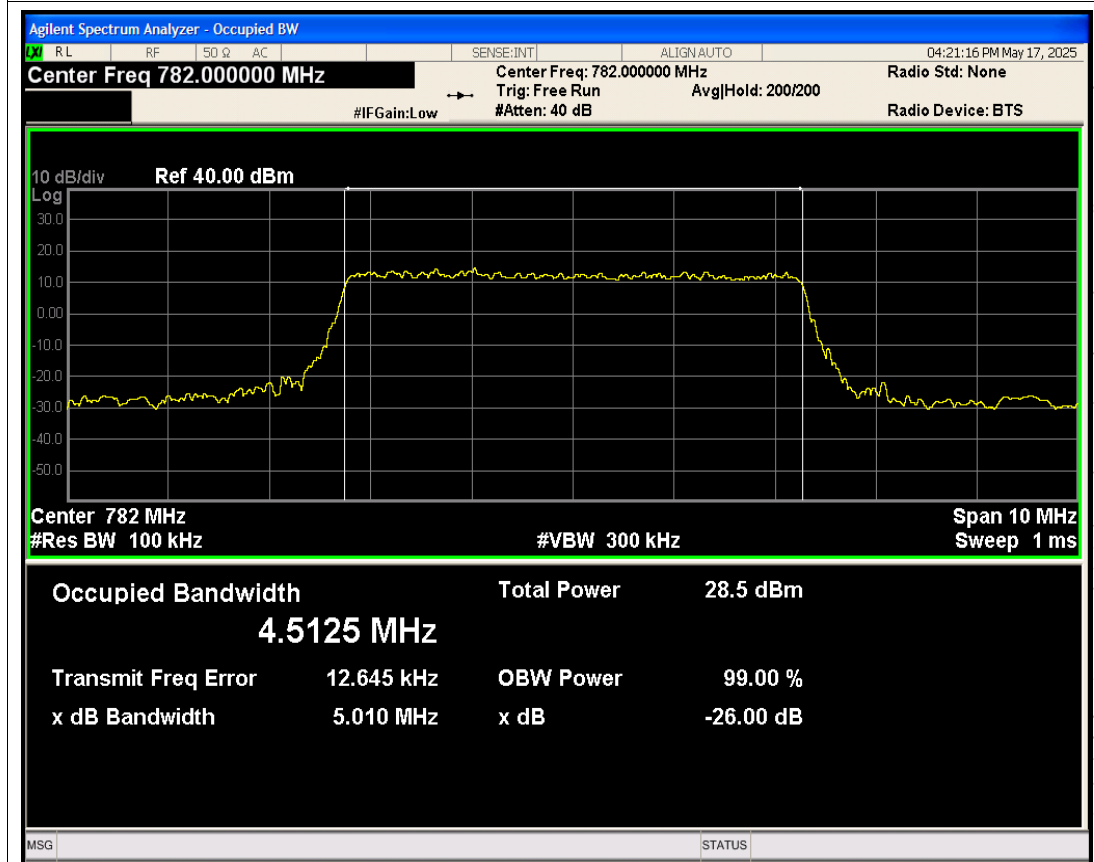
Appendix 4. Occupied bandwidth

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
NVNT	Band13	5	23205	25	#0	QPSK	4.500	5.015	PASS
NVNT	Band13	5	23205	25	#0	16QAM	4.492	4.962	PASS
NVNT	Band13	5	23230	25	#0	QPSK	4.512	5.010	PASS
NVNT	Band13	5	23230	25	#0	16QAM	4.524	4.979	PASS
NVNT	Band13	5	23255	25	#0	QPSK	4.499	4.956	PASS
NVNT	Band13	5	23255	25	#0	16QAM	4.512	5.034	PASS
NVNT	Band13	10	23230	50	#0	QPSK	9.007	10.048	PASS

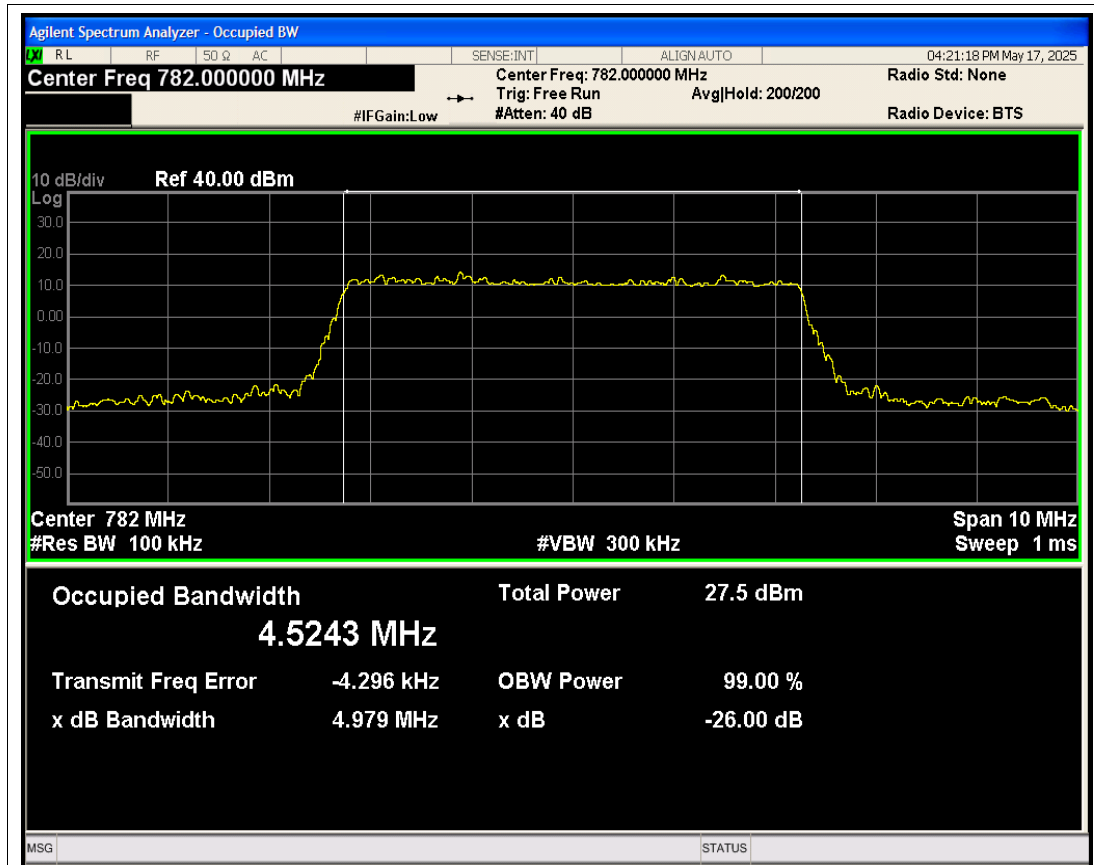




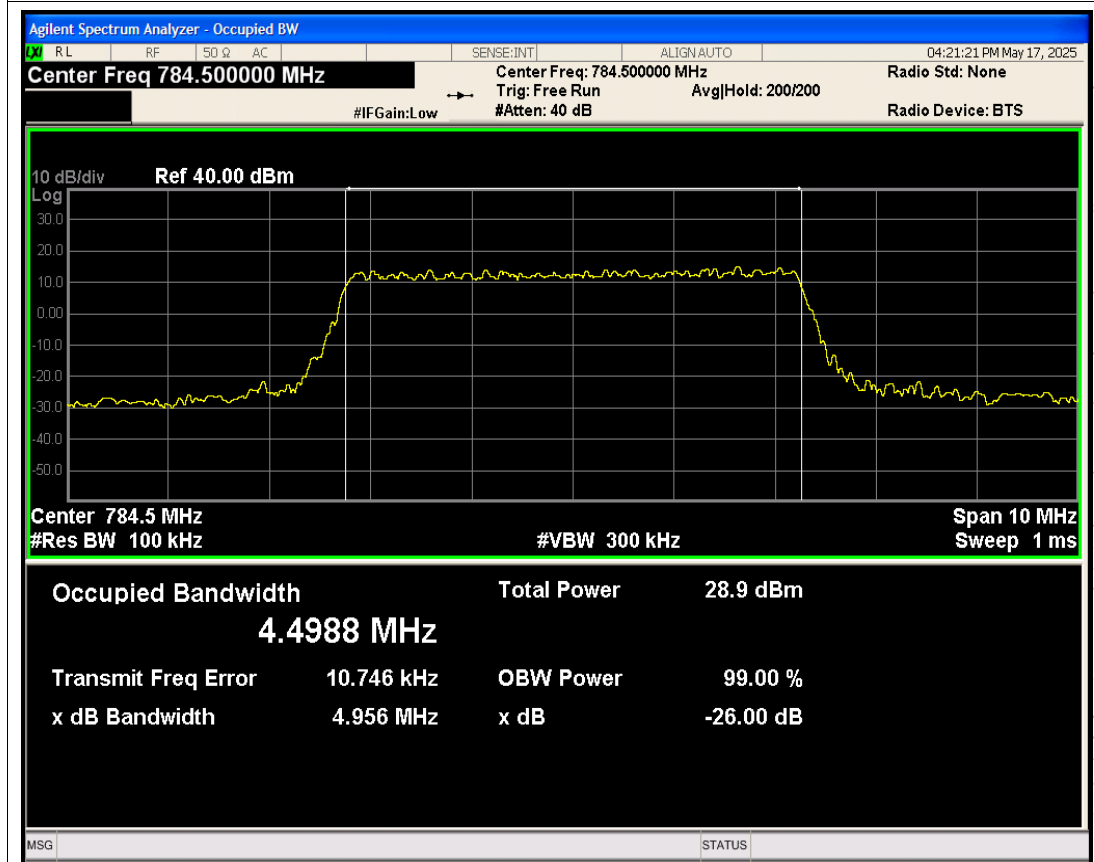
Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT



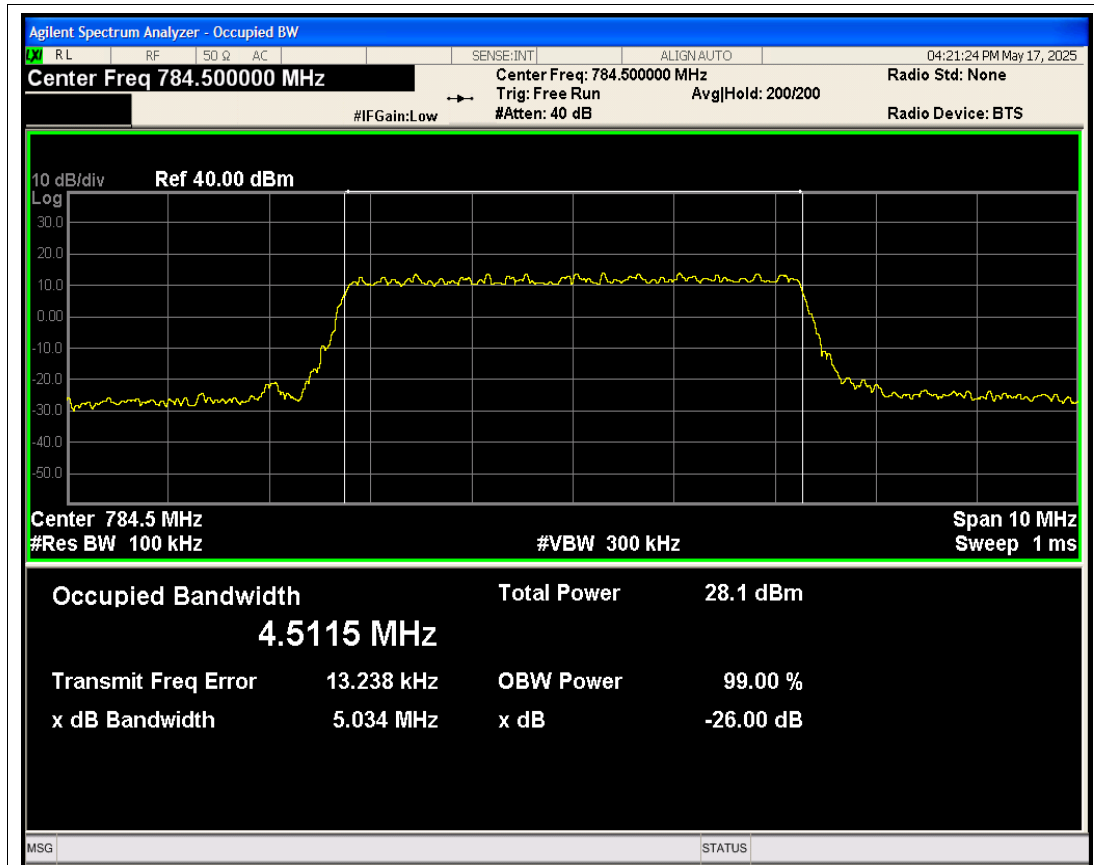
Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0 NVNT



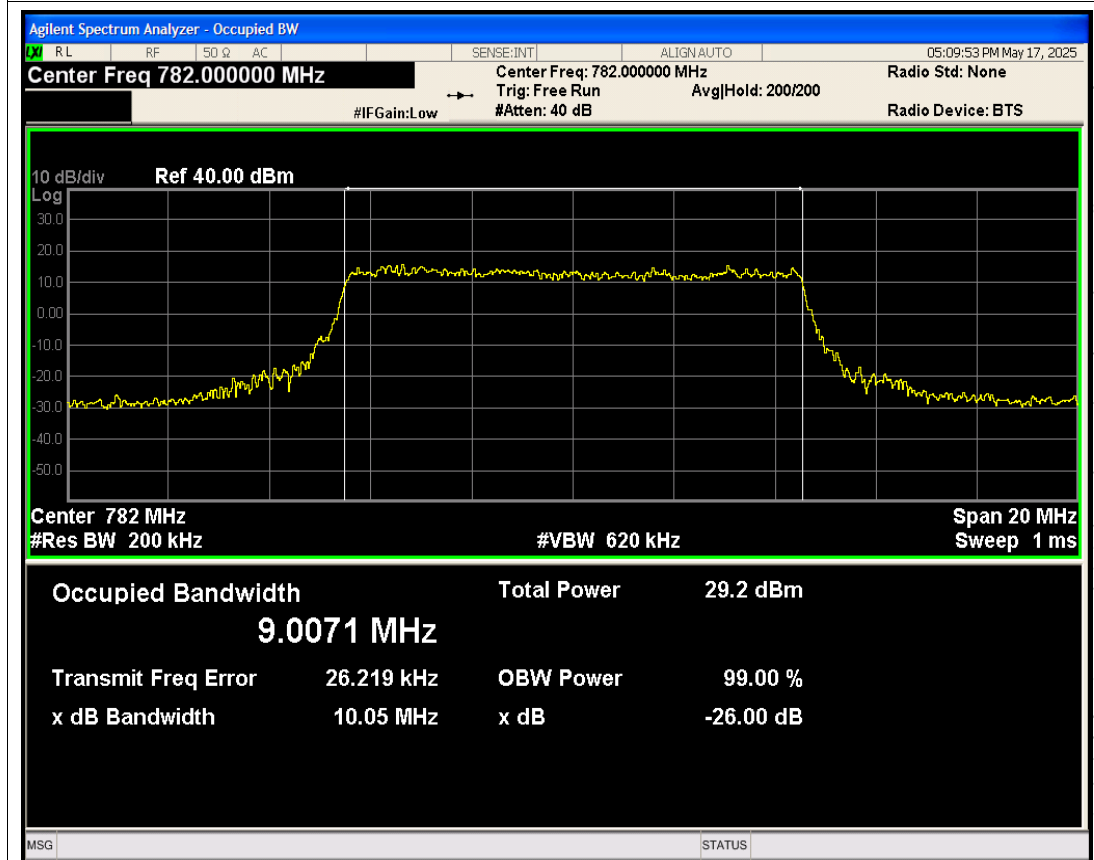
Band13 16QAM BW=5MHz Channel=23230 RB Size=25 Position=#0 NVNT



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



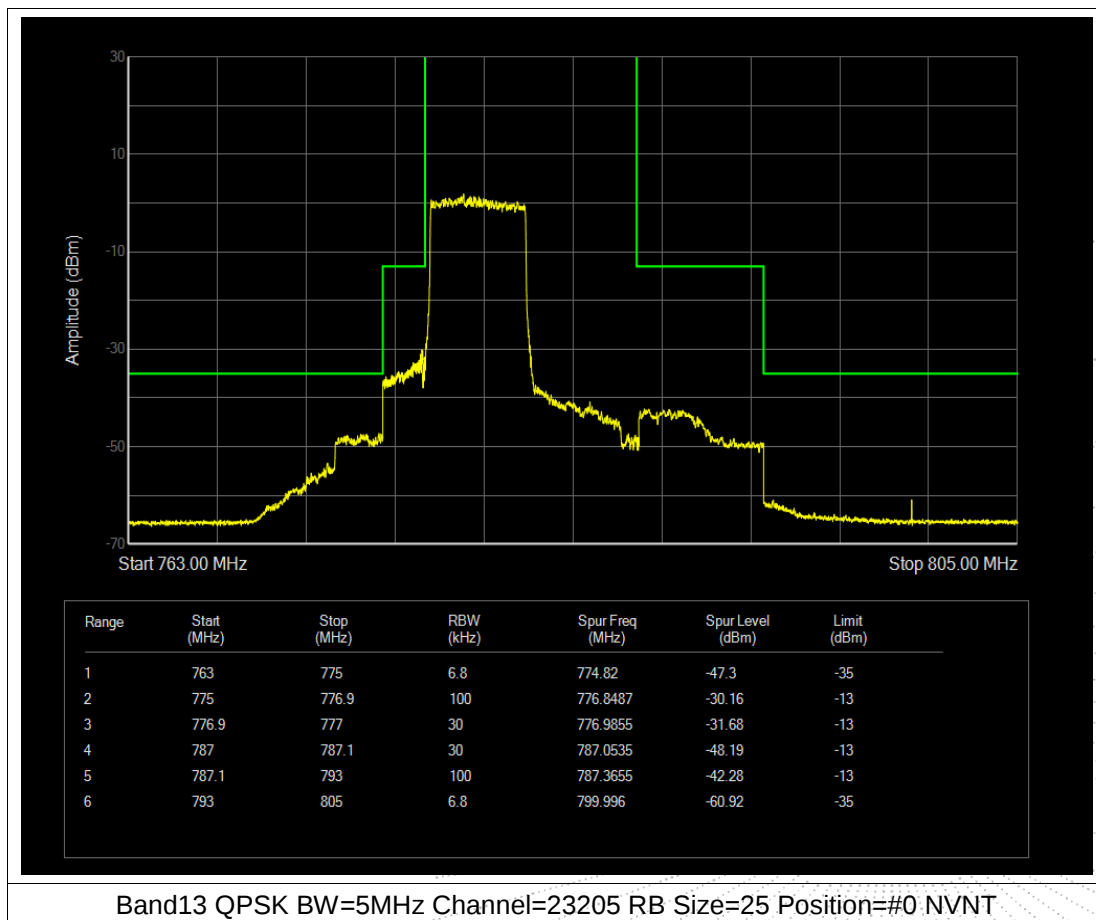
Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0 NVNT

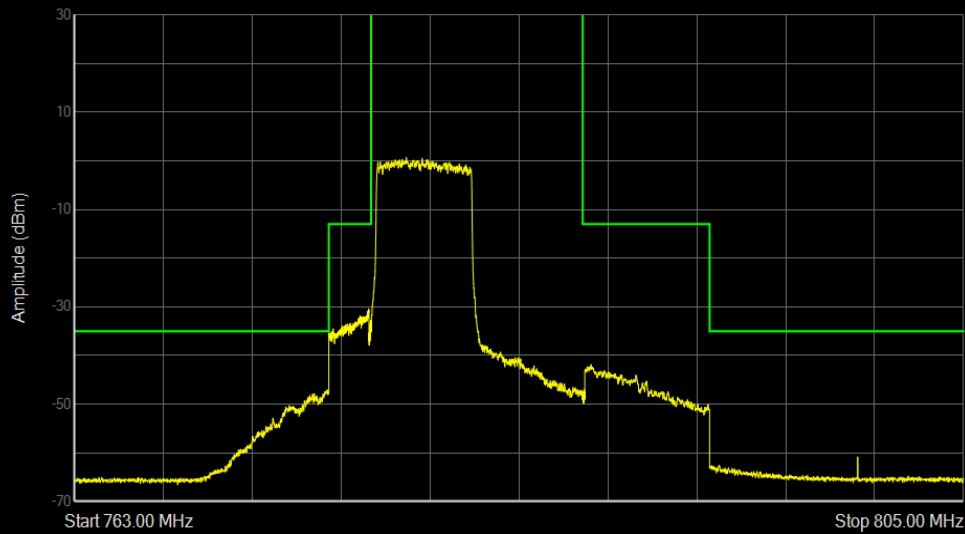


Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0 NVNT

Appendix 5. Band edge

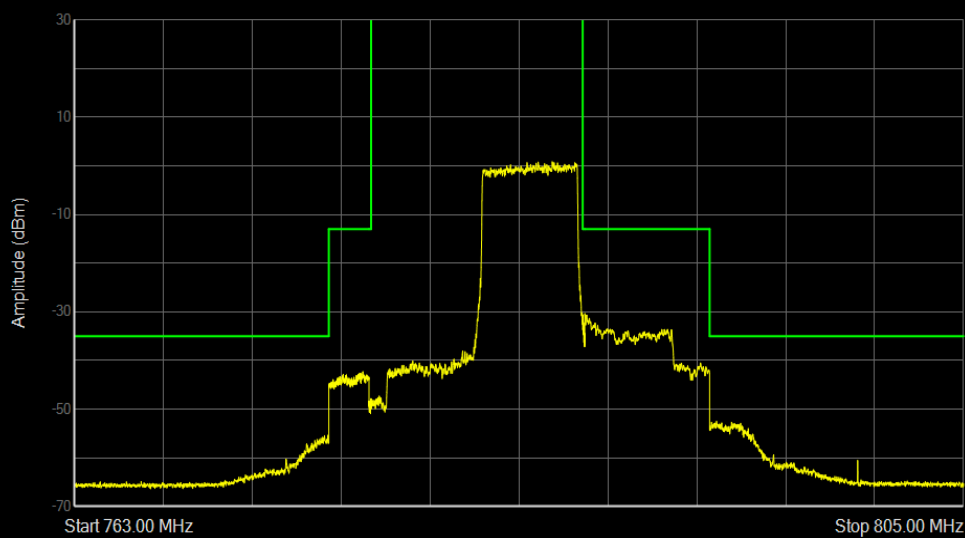
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band13	5	23205	25	#0	QPSK	774.82	-47.30	-35	PASS
NVNT	Band13	5	23205	25	#0	16QAM	774.92	-47.12	-35	PASS
NVNT	Band13	5	23255	25	#0	QPSK	793.32	-52.50	-35	PASS
NVNT	Band13	5	23255	25	#0	16QAM	787.12	-28.19	-13	PASS
NVNT	Band13	10	23230	50	#0	QPSK	774.96	-49.03	-35	PASS





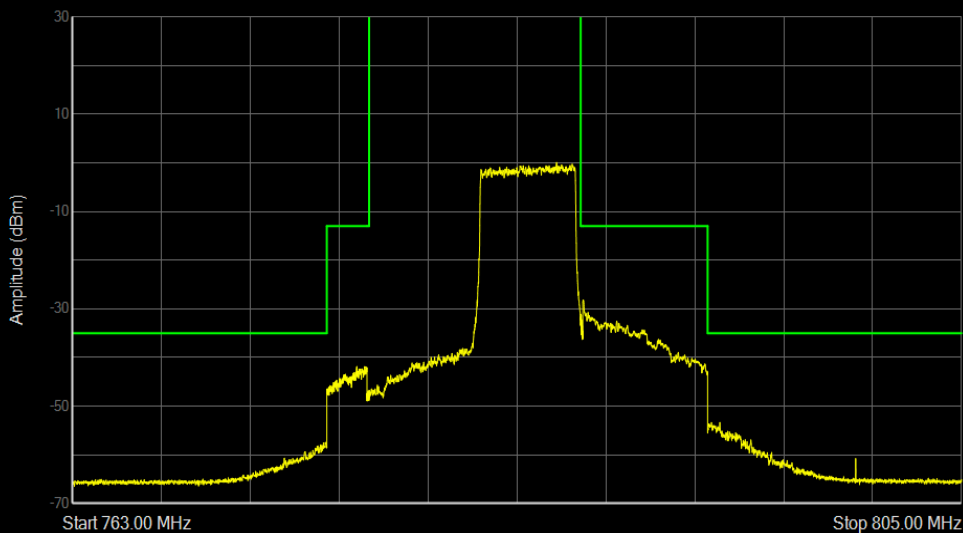
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.916	-47.12	-35
2	775	776.9	100	776.8829	-30.43	-13
3	776.9	777	30	776.9996	-32.75	-13
4	787	787.1	30	787.0591	-47.06	-13
5	787.1	793	100	787.4009	-41.9	-13
6	793	805	6.8	799.996	-60.86	-35

Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT



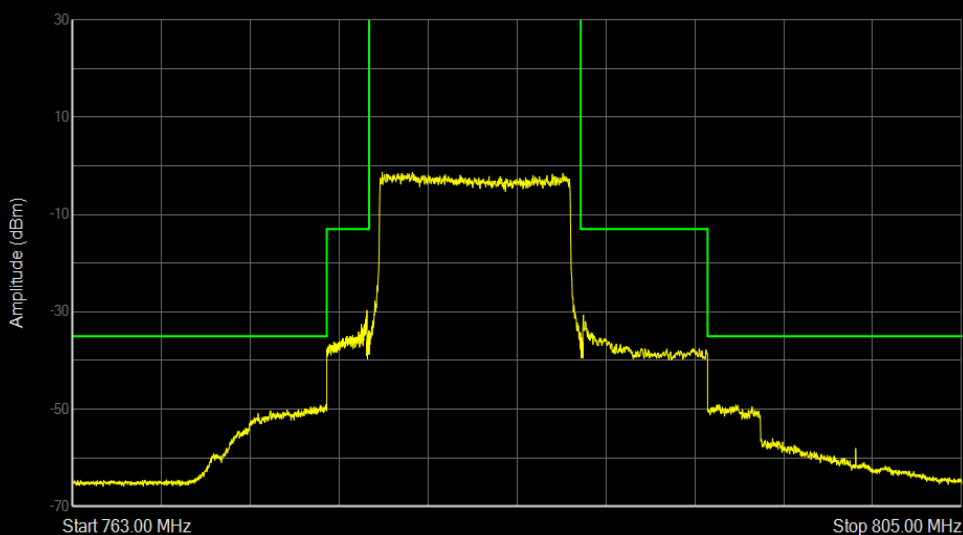
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.964	-55.37	-35
2	775	776.9	100	776.6093	-42.3	-13
3	776.9	777	30	776.998	-47.86	-13
4	787	787.1	30	787.0136	-30.68	-13
5	787.1	793	100	787.1885	-30.69	-13
6	793	805	6.8	793.324	-52.5	-35

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



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.928	-57.48	-35
2	775	776.9	100	776.4193	-41.87	-13
3	776.9	777	30	776.9589	-46.88	-13
4	787	787.1	30	787.0108	-31.12	-13
5	787.1	793	100	787.1177	-28.19	-13
6	793	805	6.8	793.576	-53.35	-35

Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0 NVNT

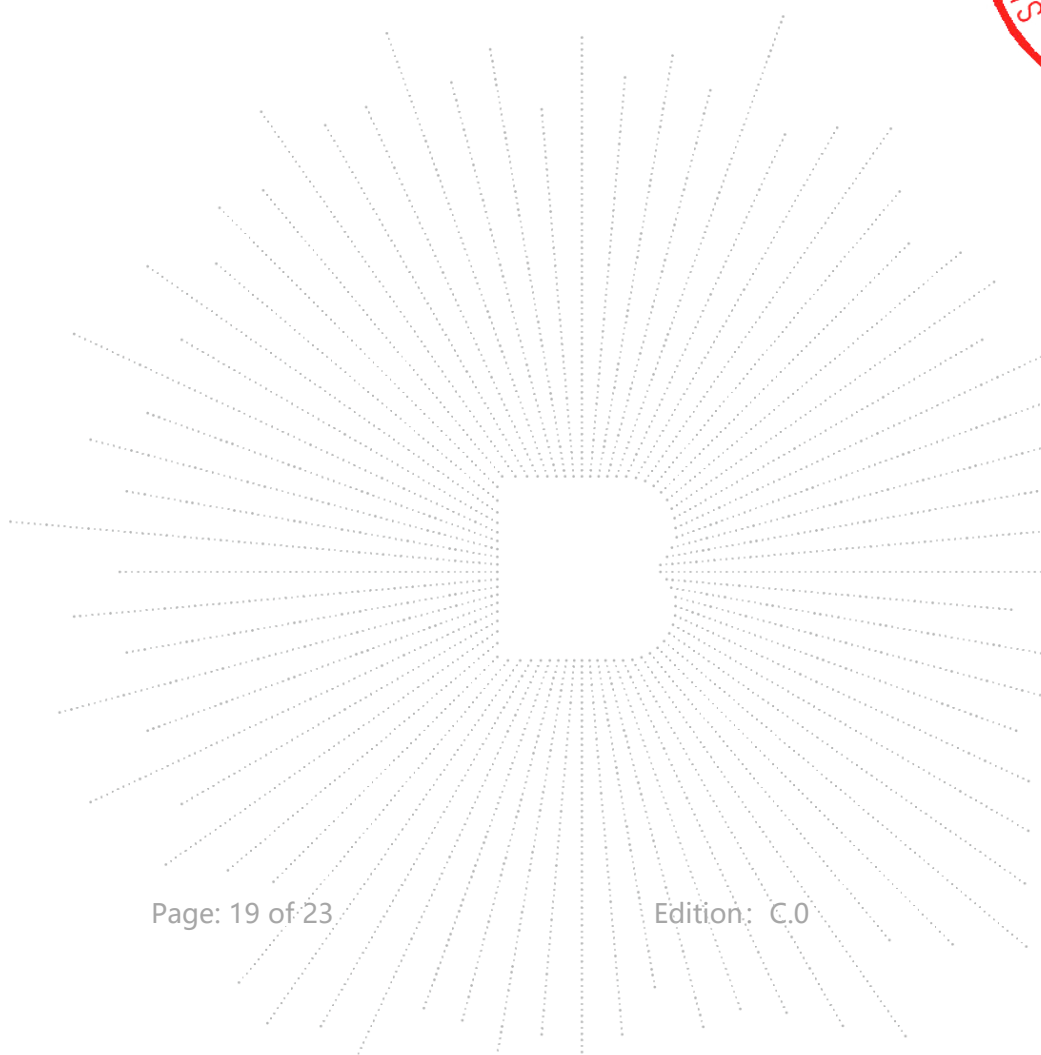


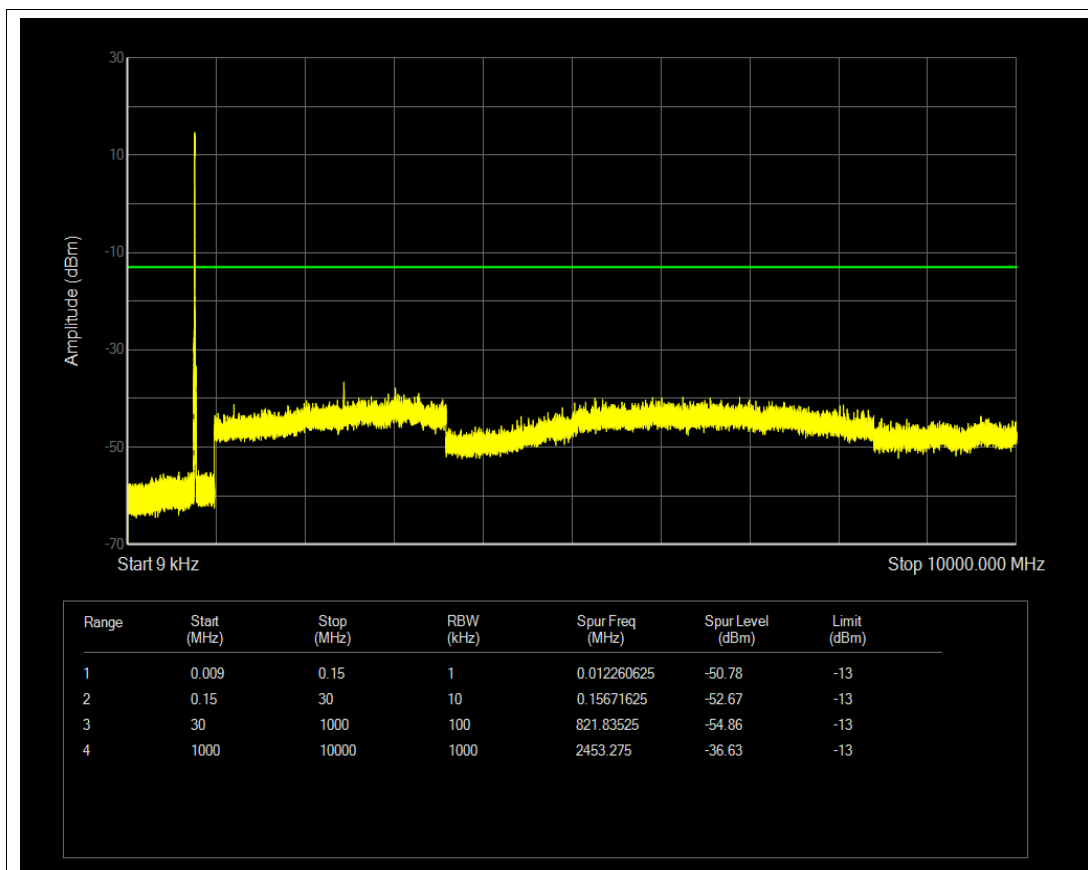
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.964	-49.03	-35
2	775	776.9	100	776.9	-29.7	-13
3	776.9	777	30	776.9925	-33.88	-13
4	787	787.1	30	787.0606	-35.31	-13
5	787.1	793	100	787.1236	-30.68	-13
6	793	805	6.8	793.564	-49.13	-35

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

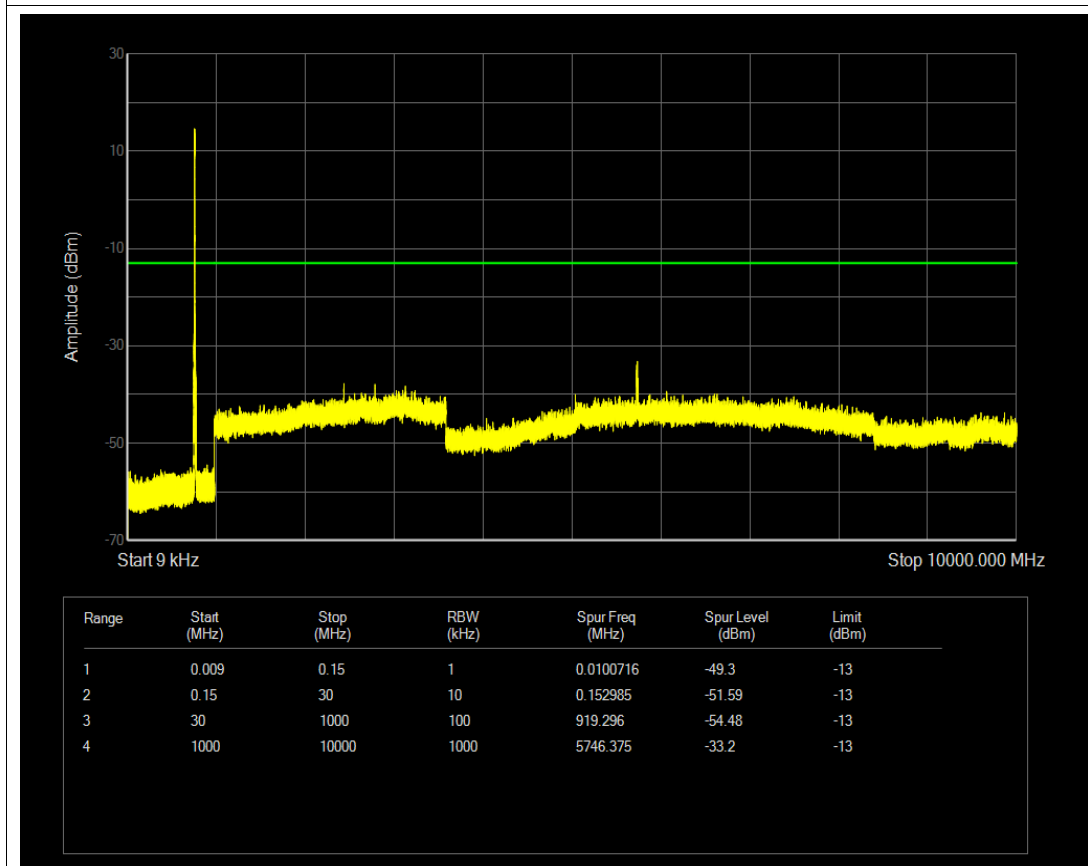
Appendix 6. Out-of-band emissions

<i>Condition</i>	<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	Band13	5	23205	25	#0	QPSK	2453.28	-36.63	-13	PASS
NVNT	Band13	5	23205	25	#0	16QAM	5746.38	-33.20	-13	PASS
NVNT	Band13	5	23230	25	#0	QPSK	2769.85	-39.07	-13	PASS
NVNT	Band13	5	23230	25	#0	16QAM	3161.35	-38.48	-13	PASS
NVNT	Band13	5	23255	25	#0	QPSK	3268.23	-38.65	-13	PASS
NVNT	Band13	5	23255	25	#0	16QAM	2452.83	-36.70	-13	PASS
NVNT	Band13	10	23230	50	#0	QPSK	2454.63	-36.68	-13	PASS

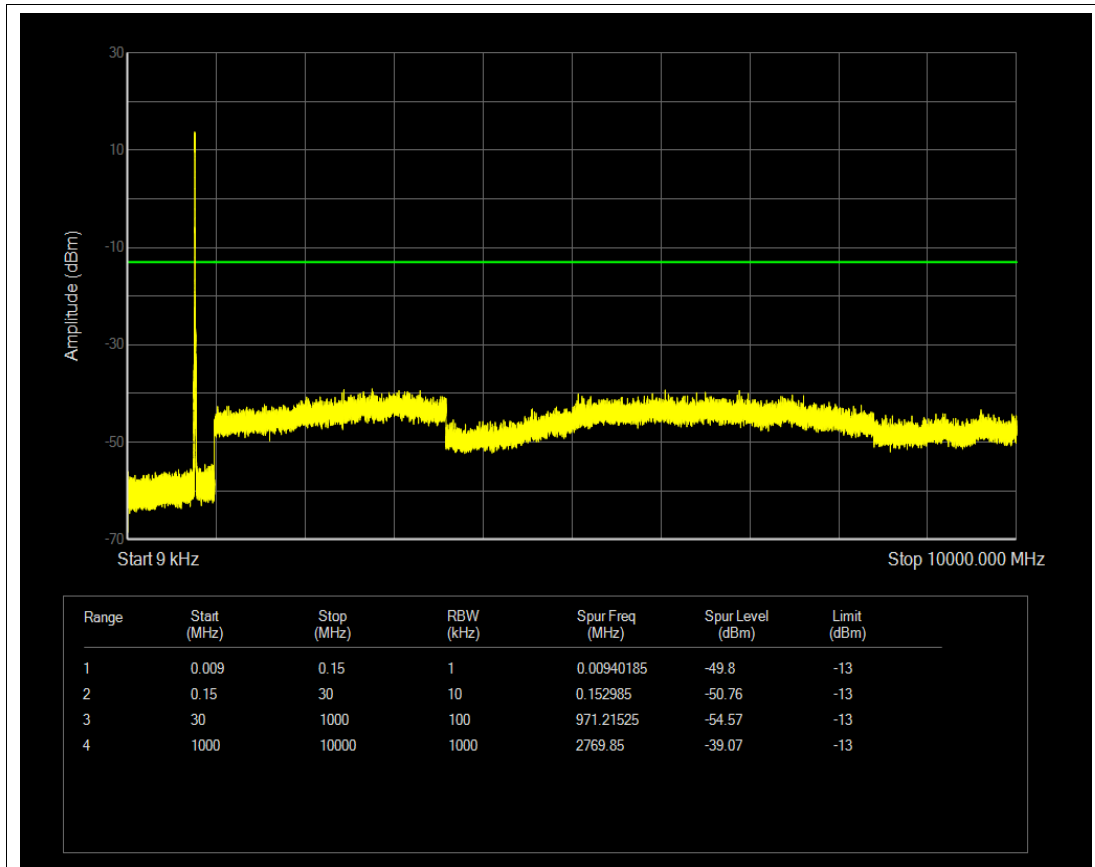




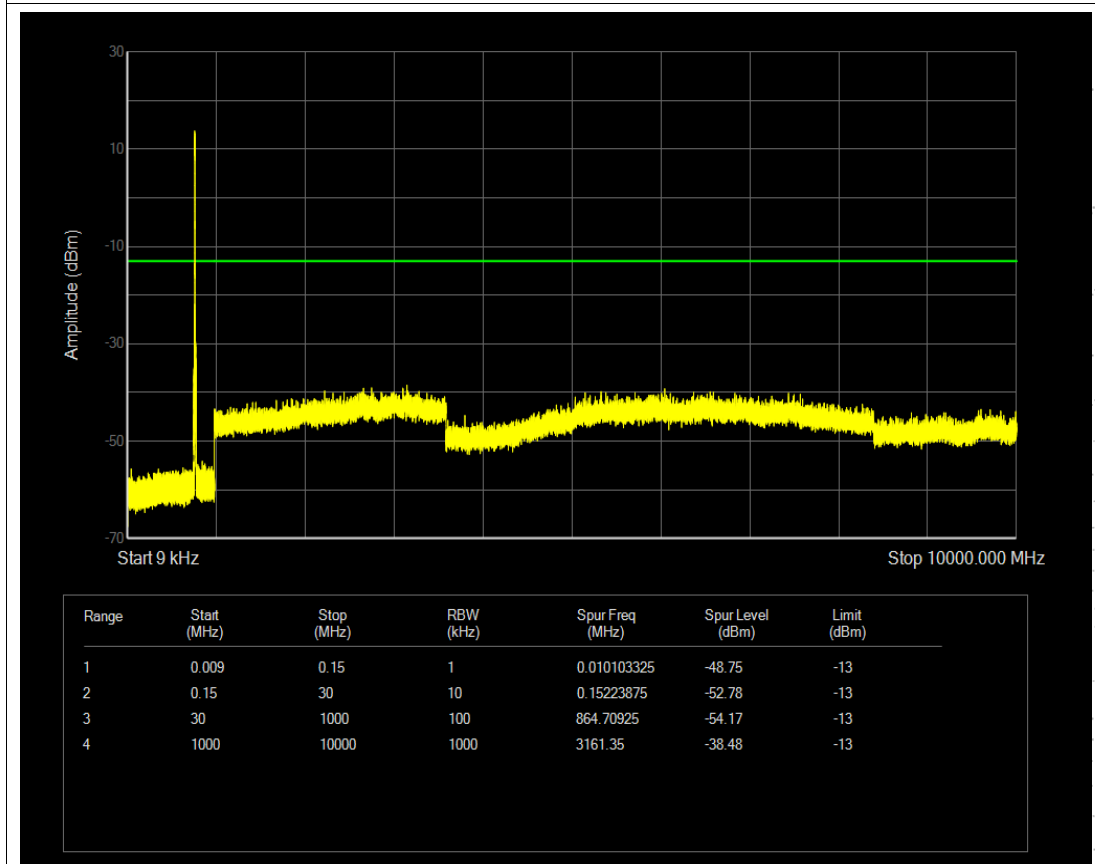
Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT



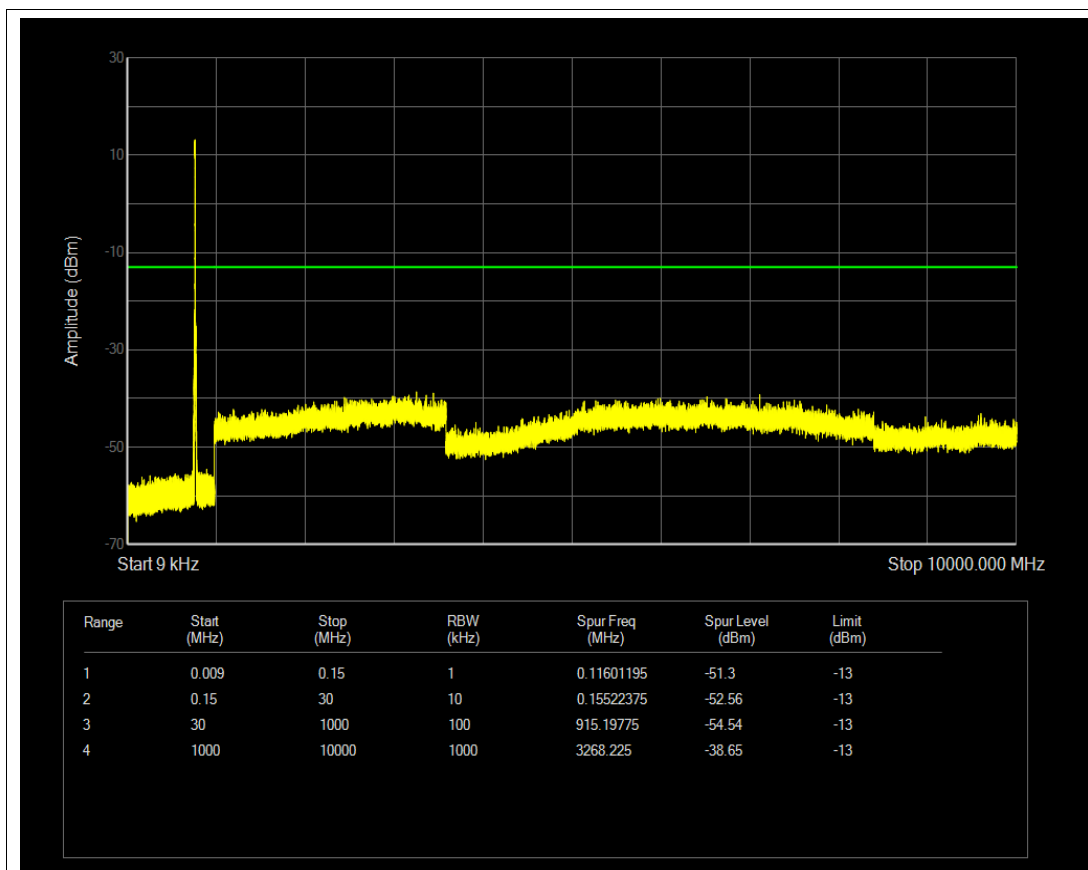
Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT



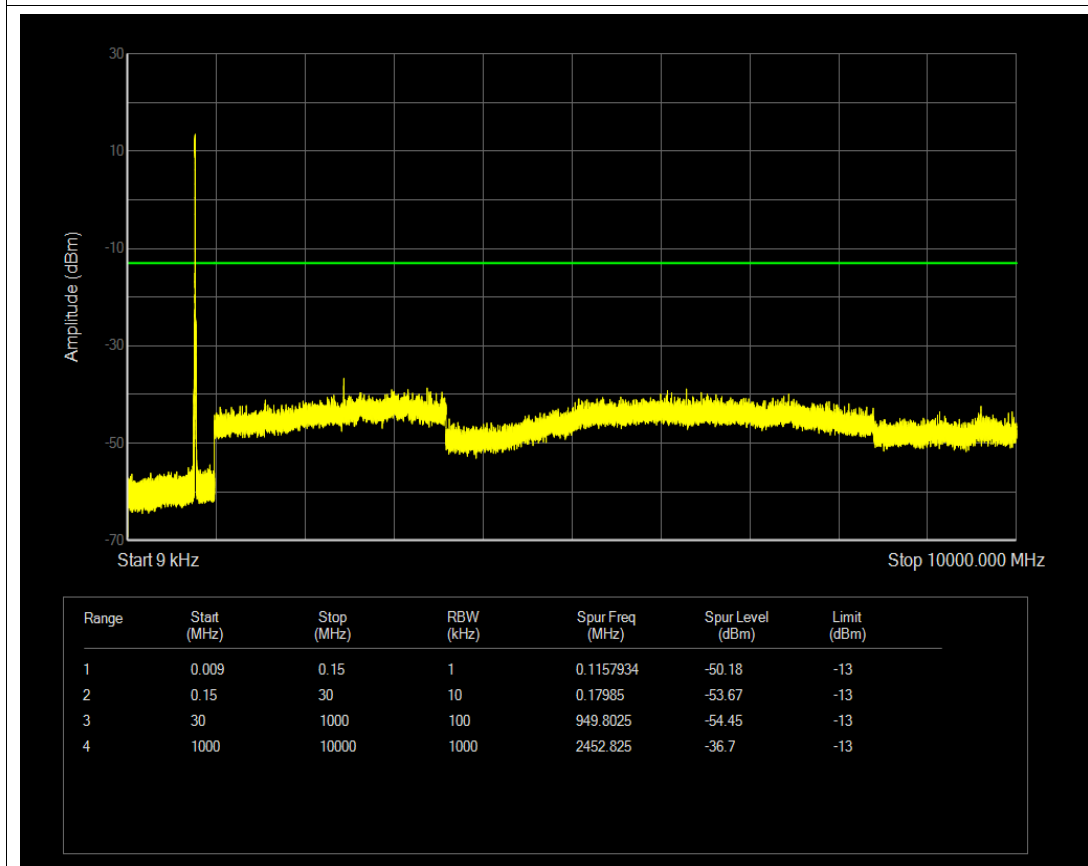
Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0 NVNT



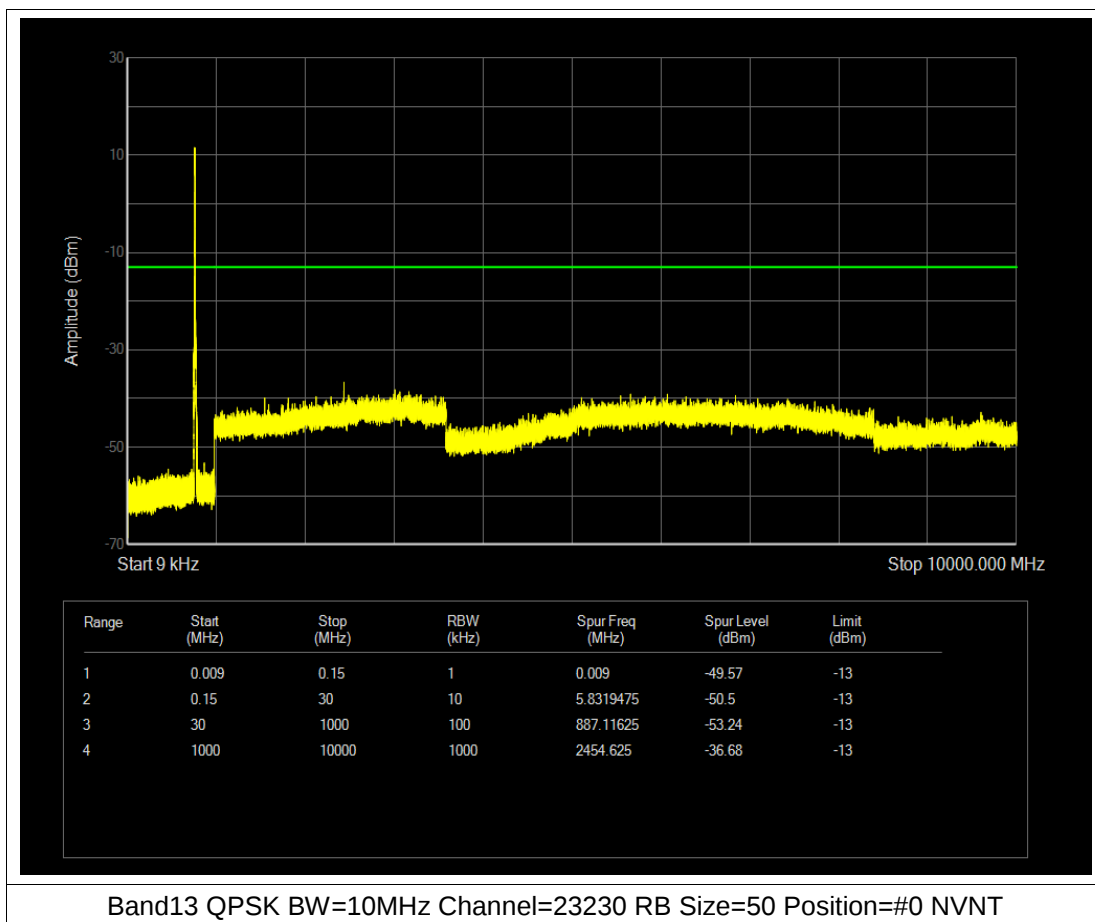
Band13 16QAM BW=5MHz Channel=23230 RB Size=25 Position=#0 NVNT



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



Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0 NVNT



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