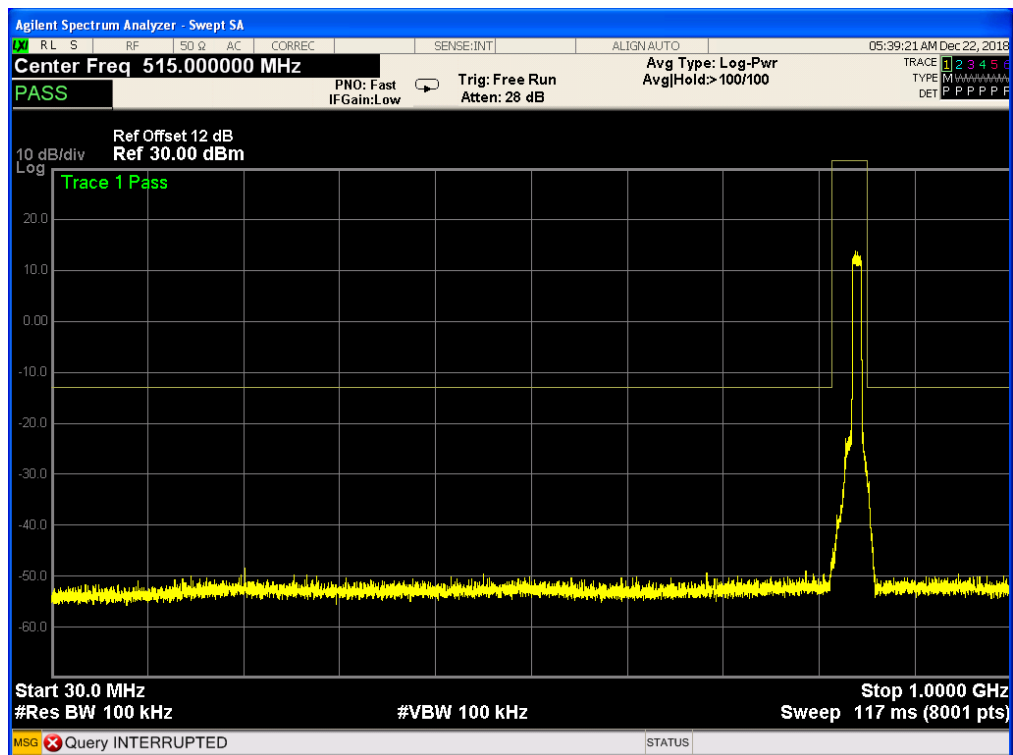
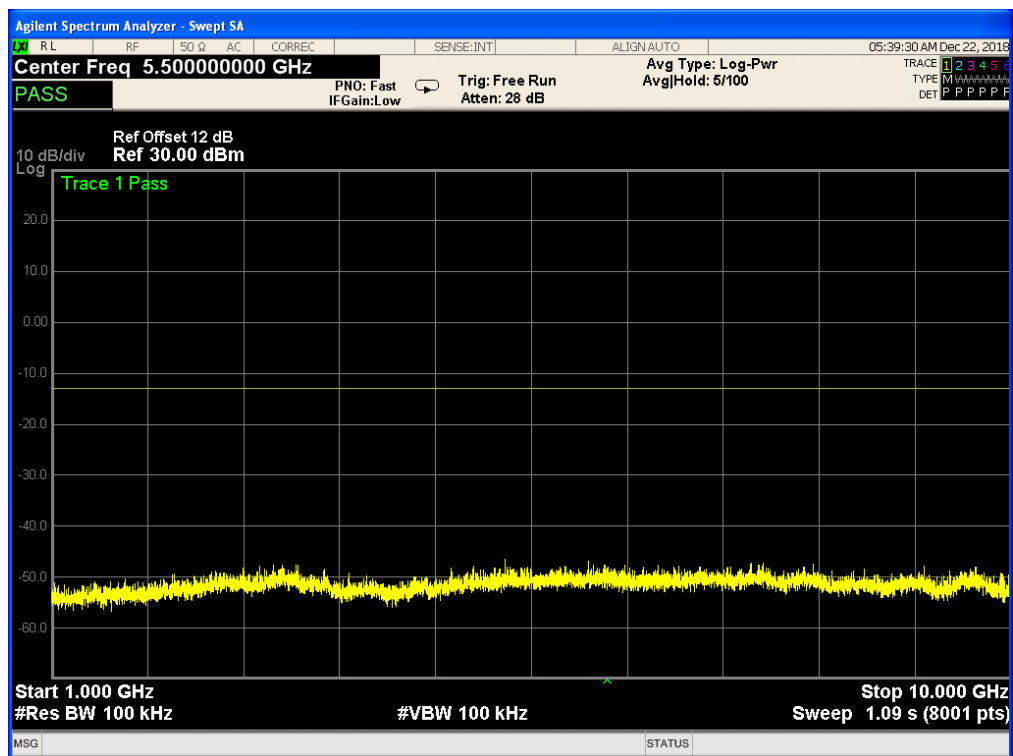


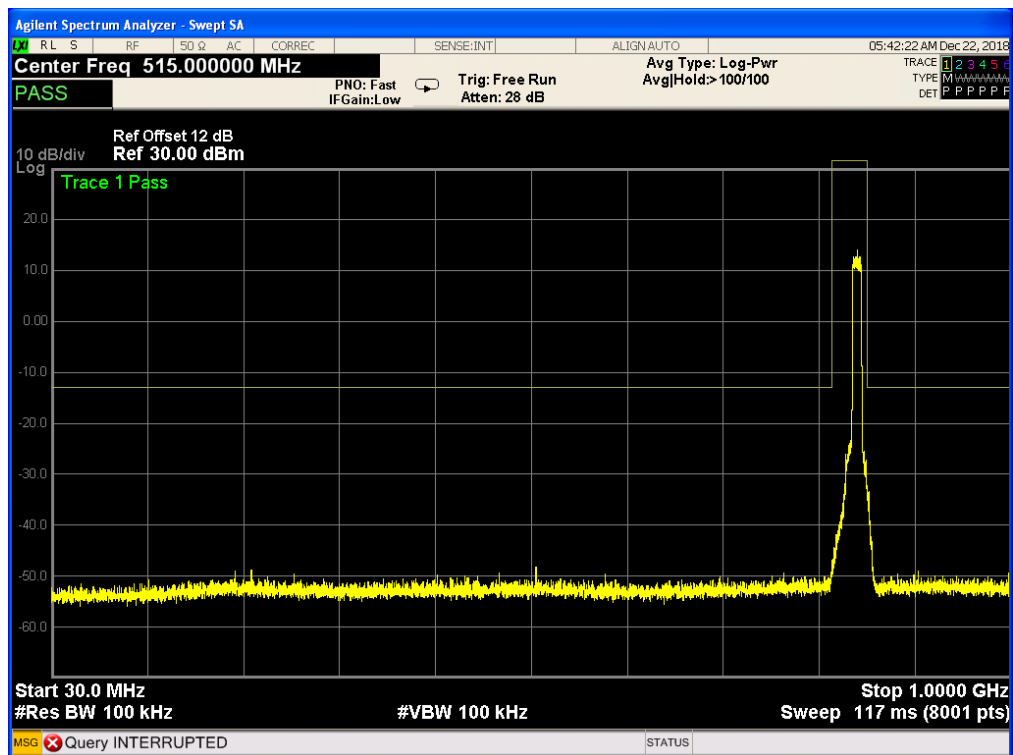
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



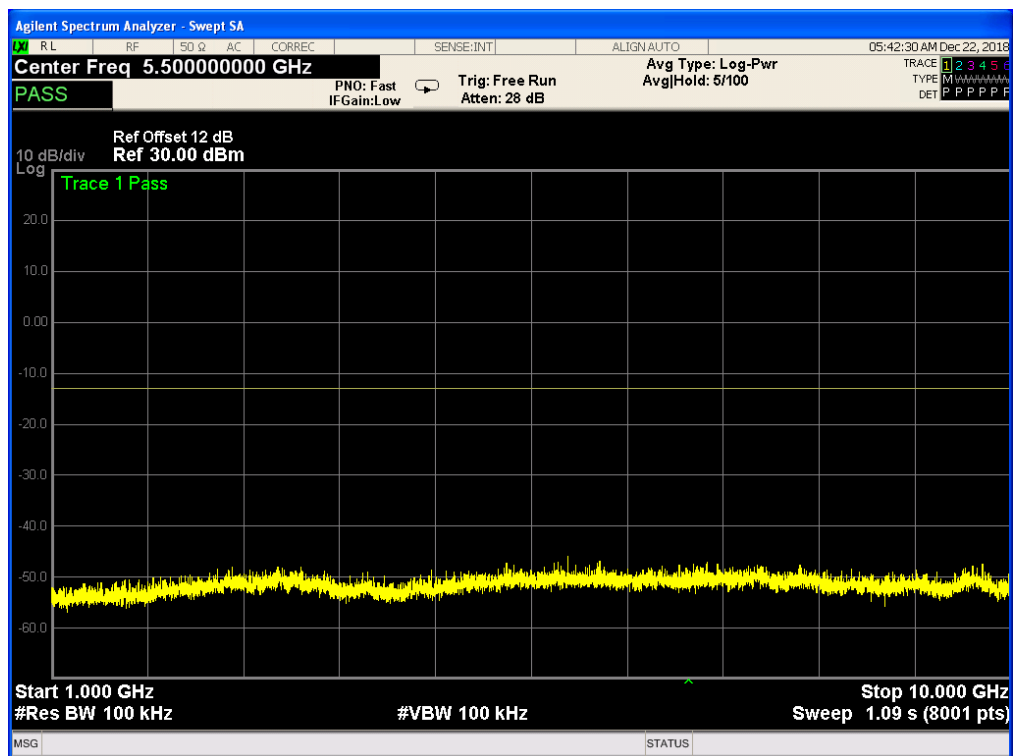
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

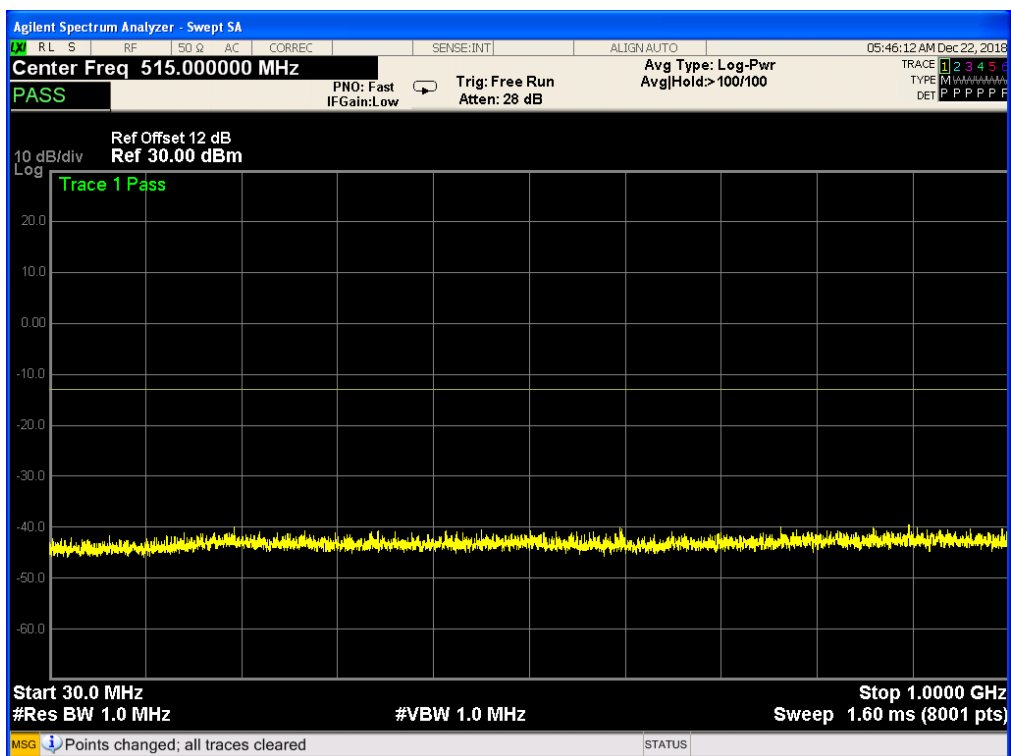


Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

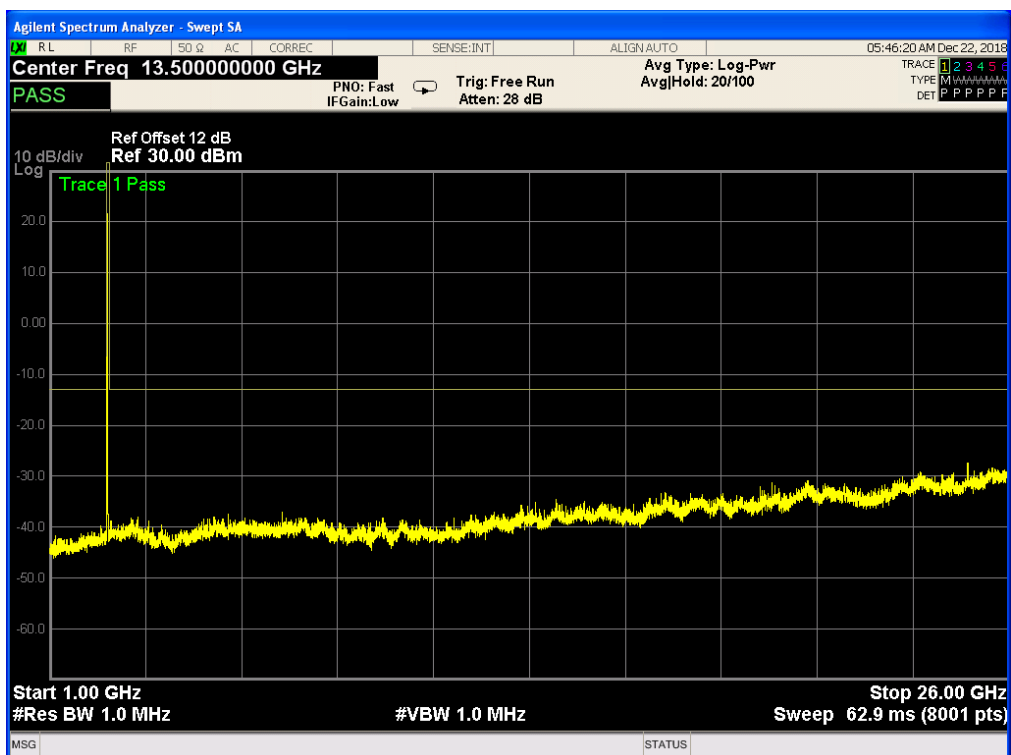


7.3 LTE BAND 7

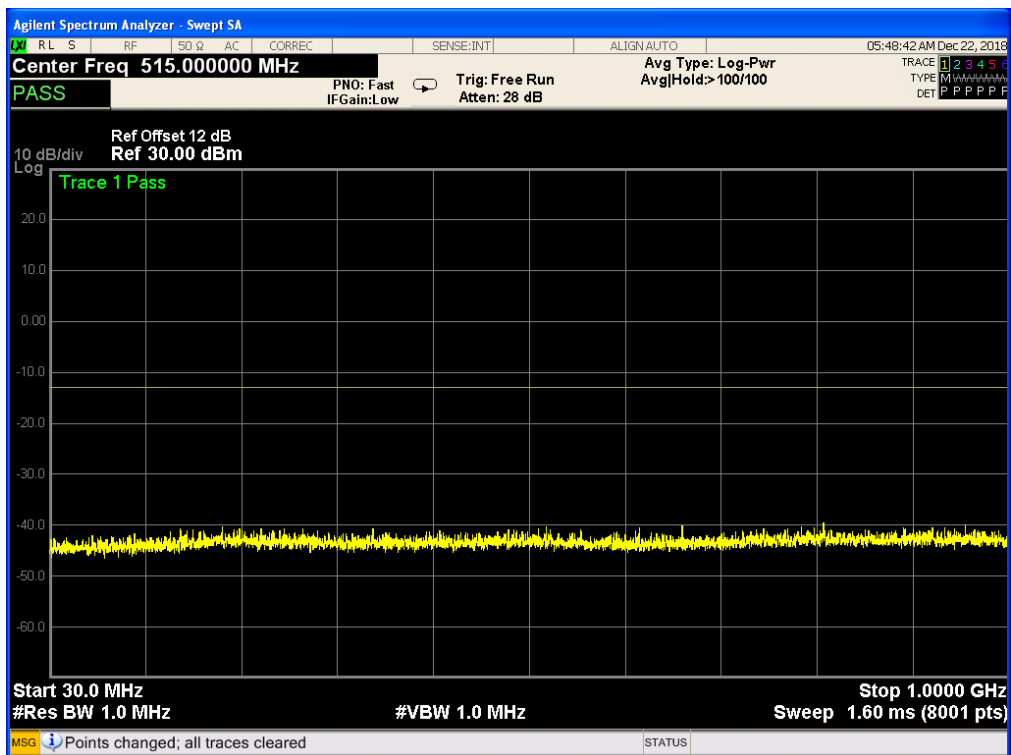
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



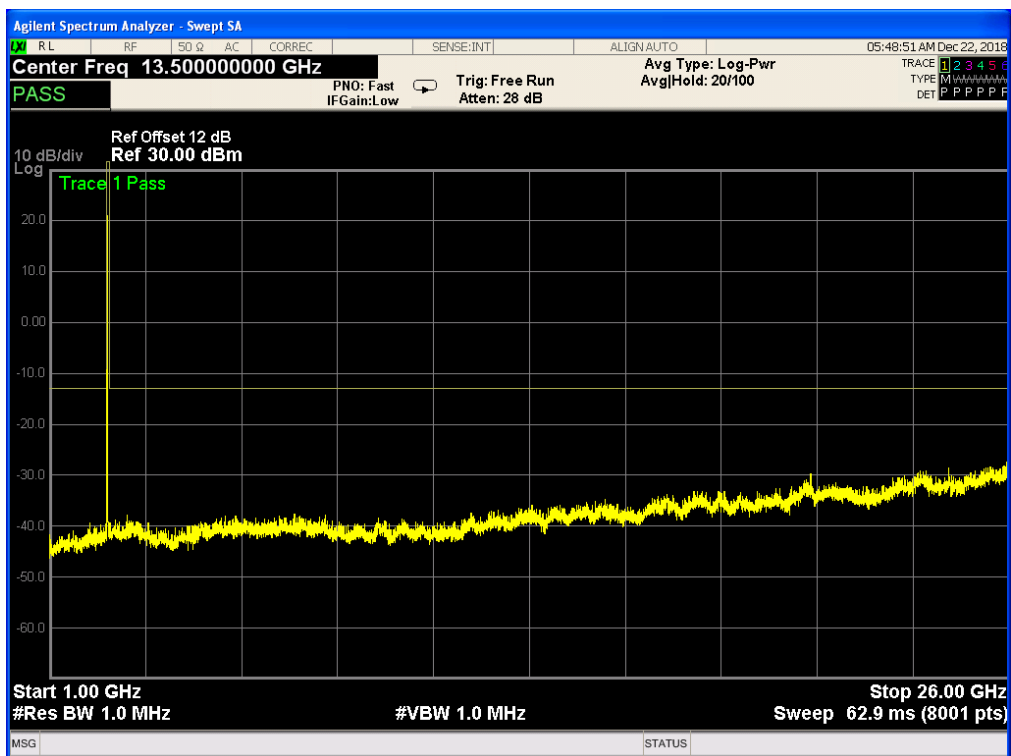
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



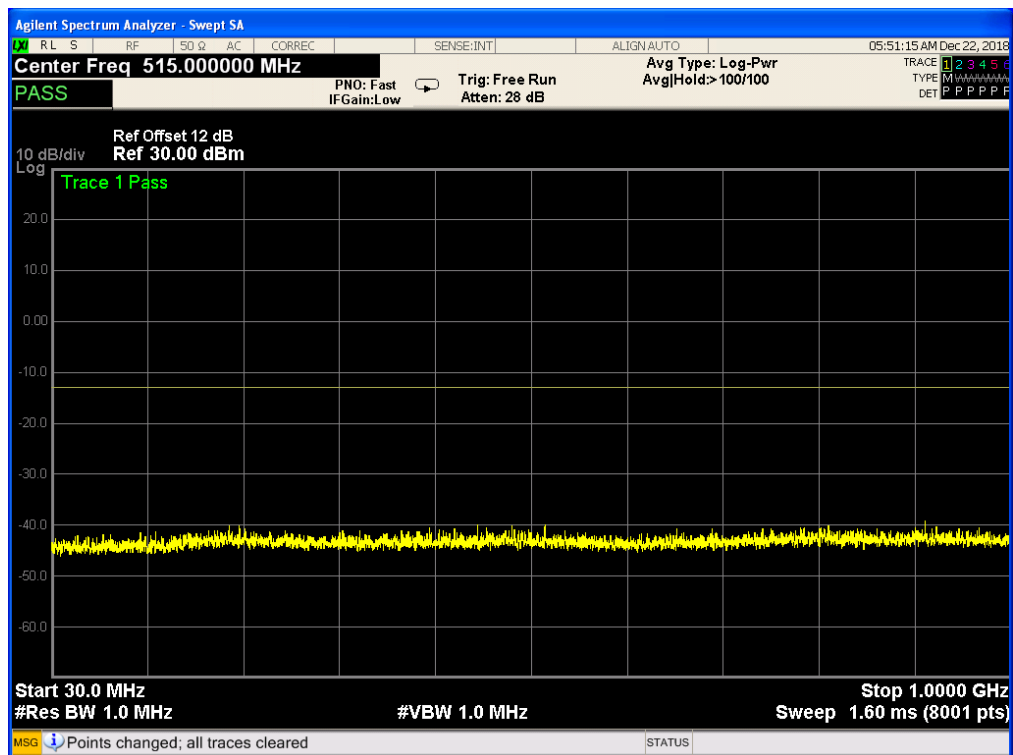
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



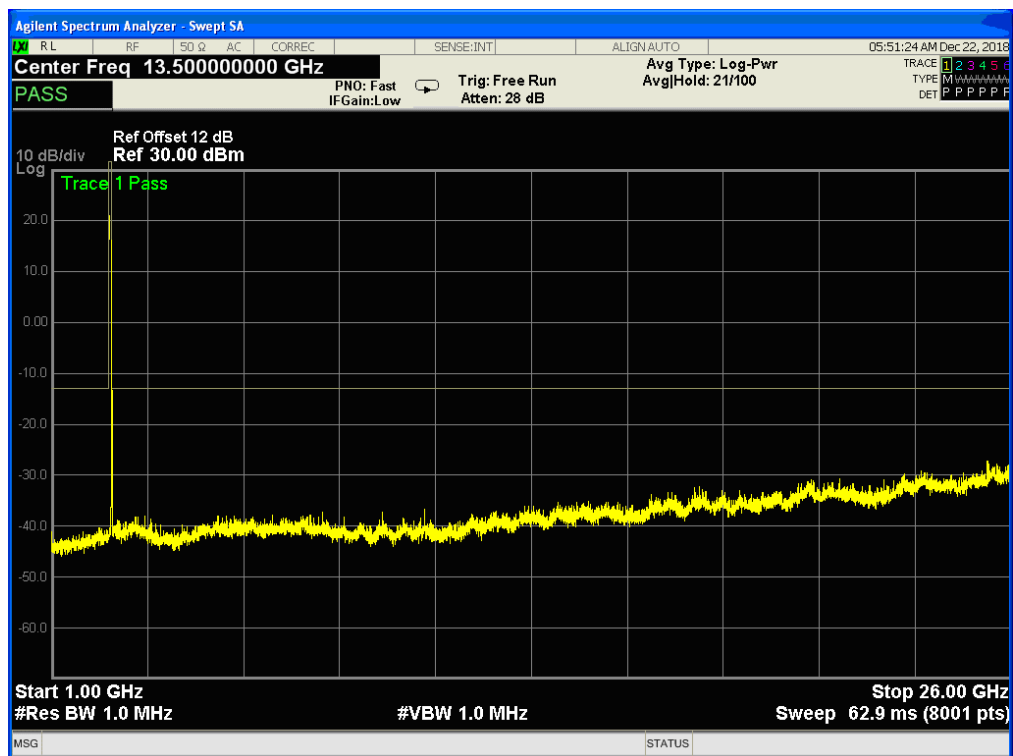
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



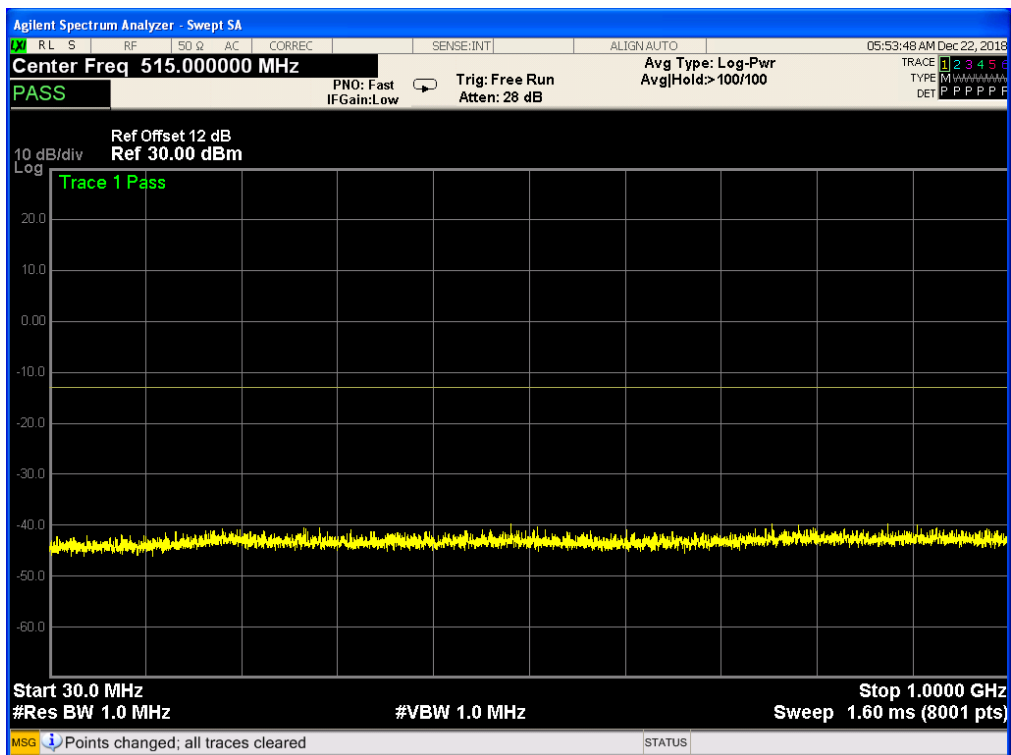
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



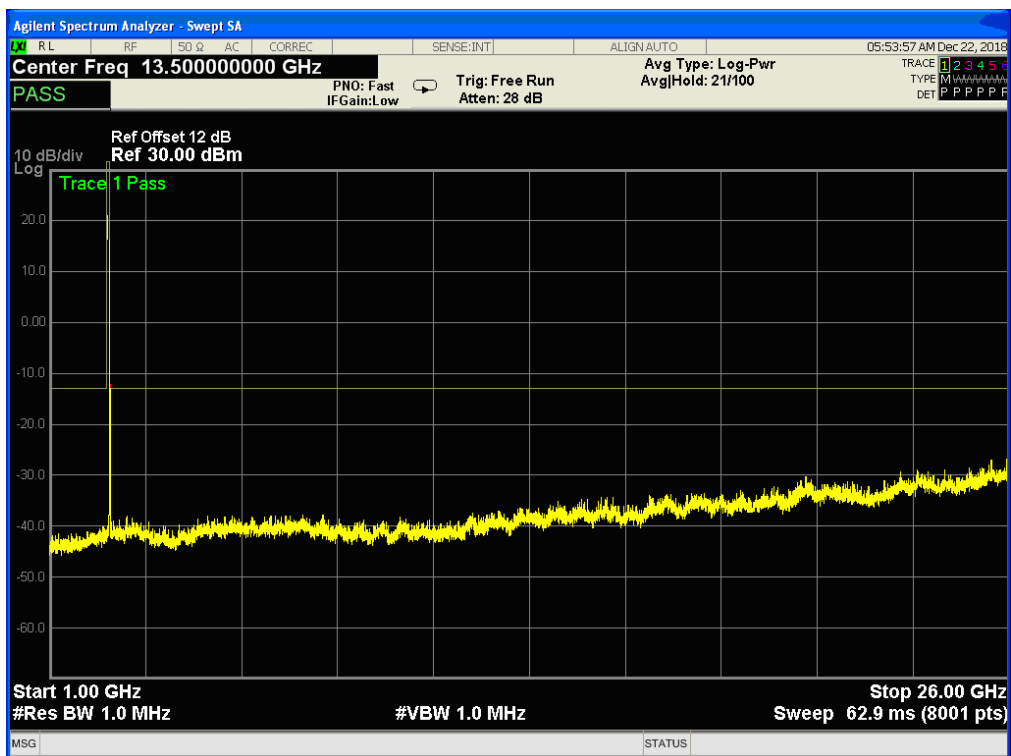
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



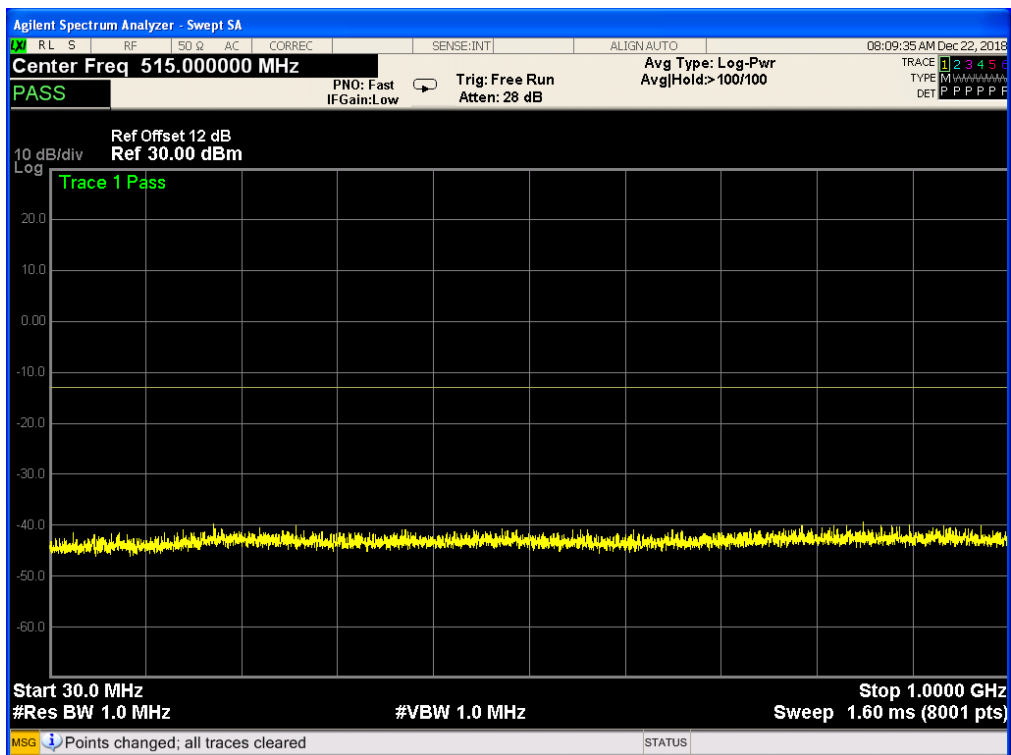
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



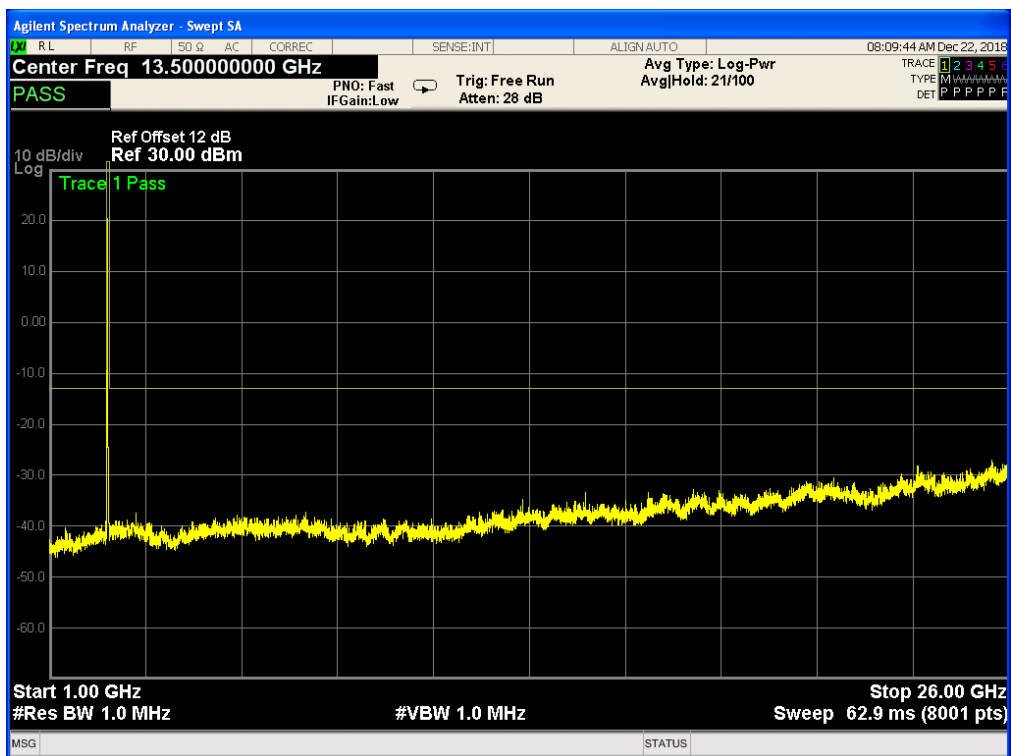
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



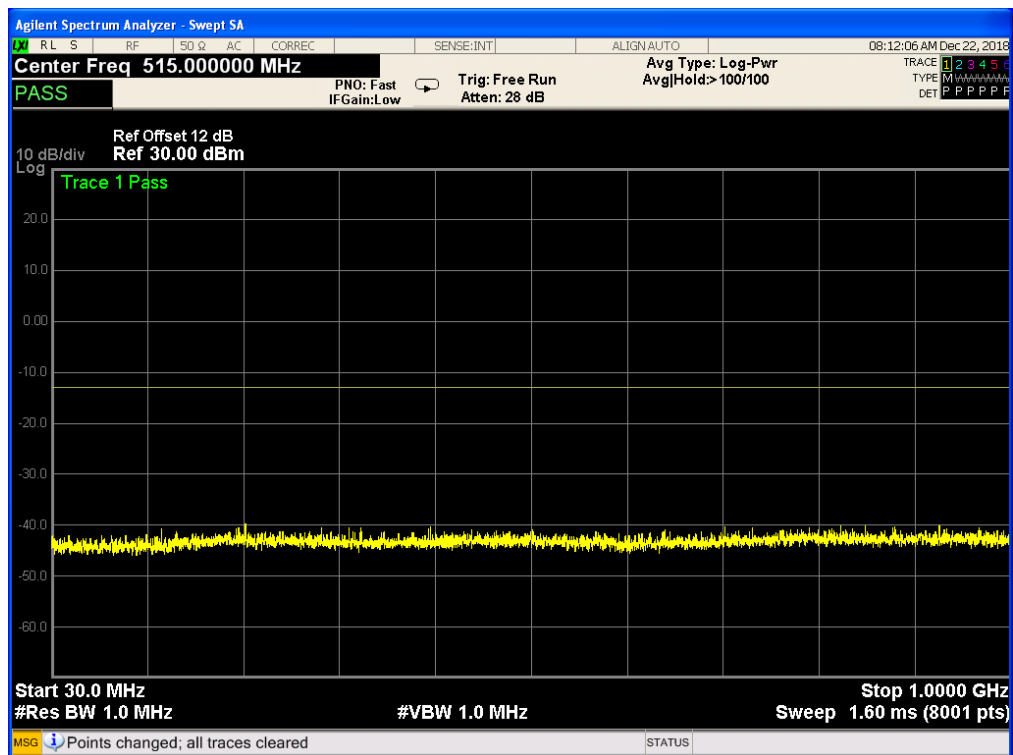
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



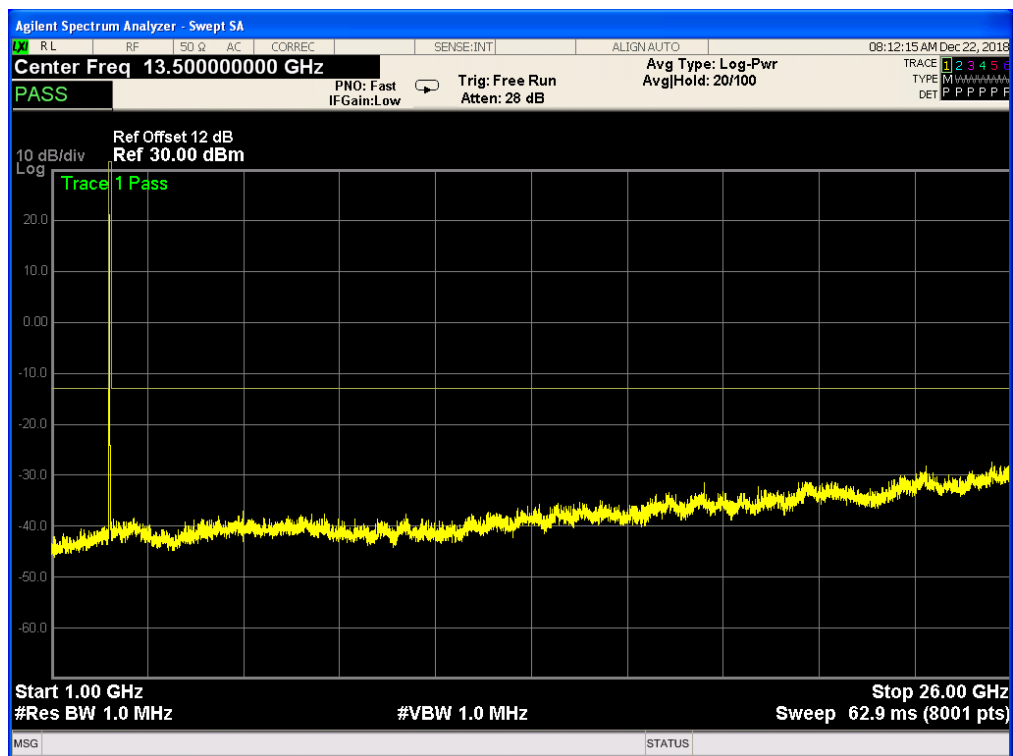
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



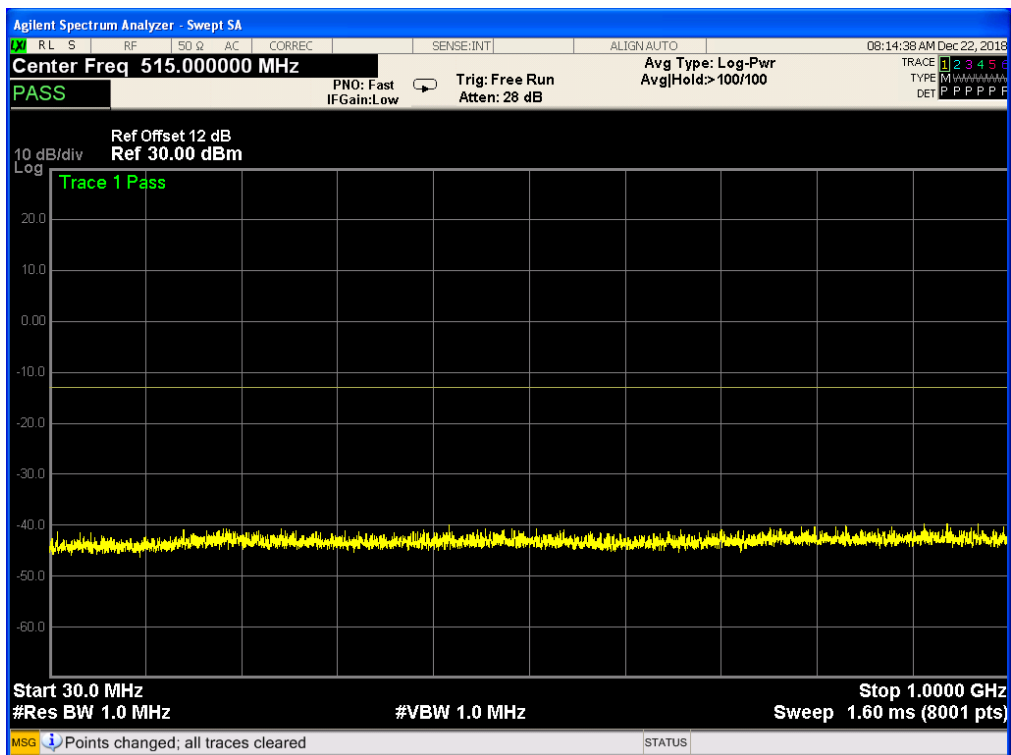
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



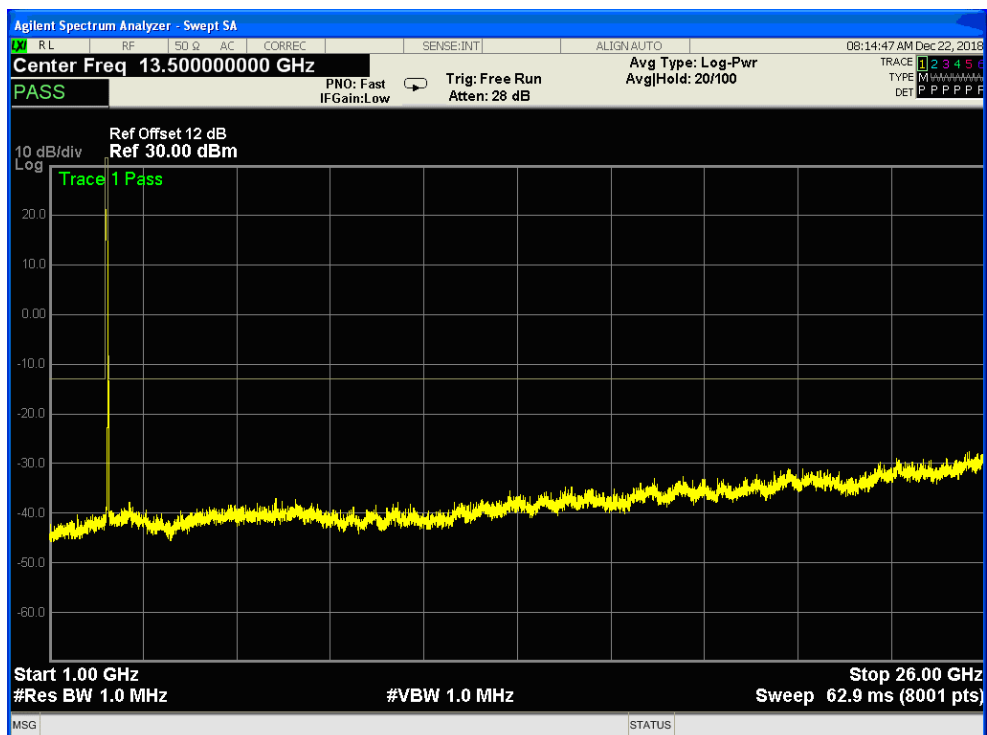
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



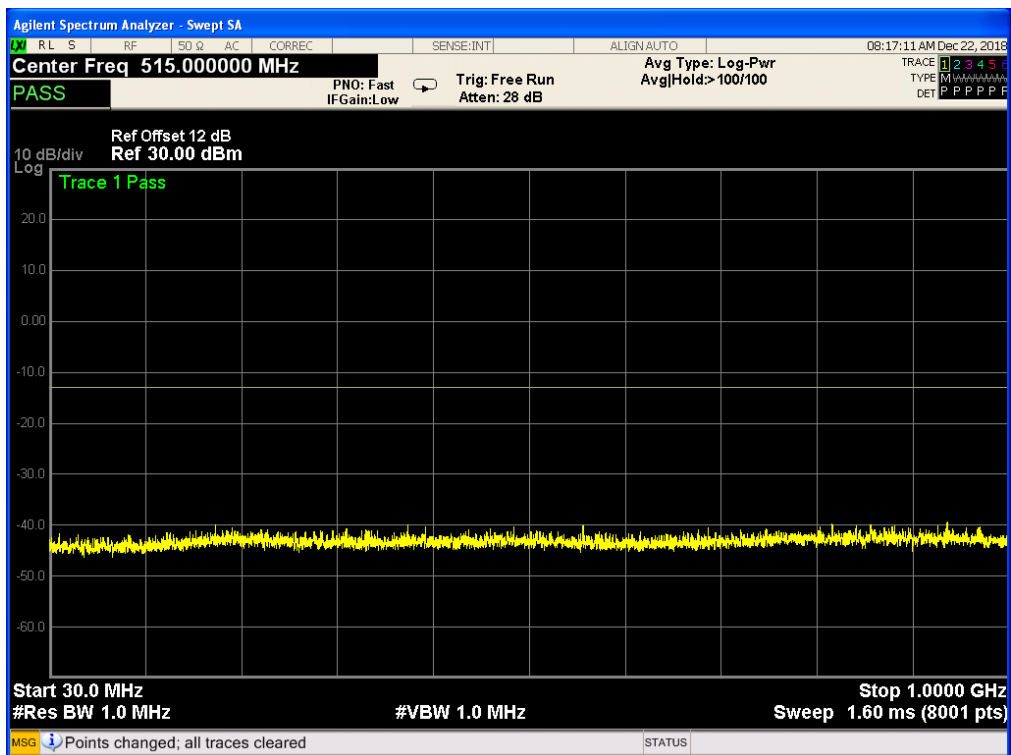
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



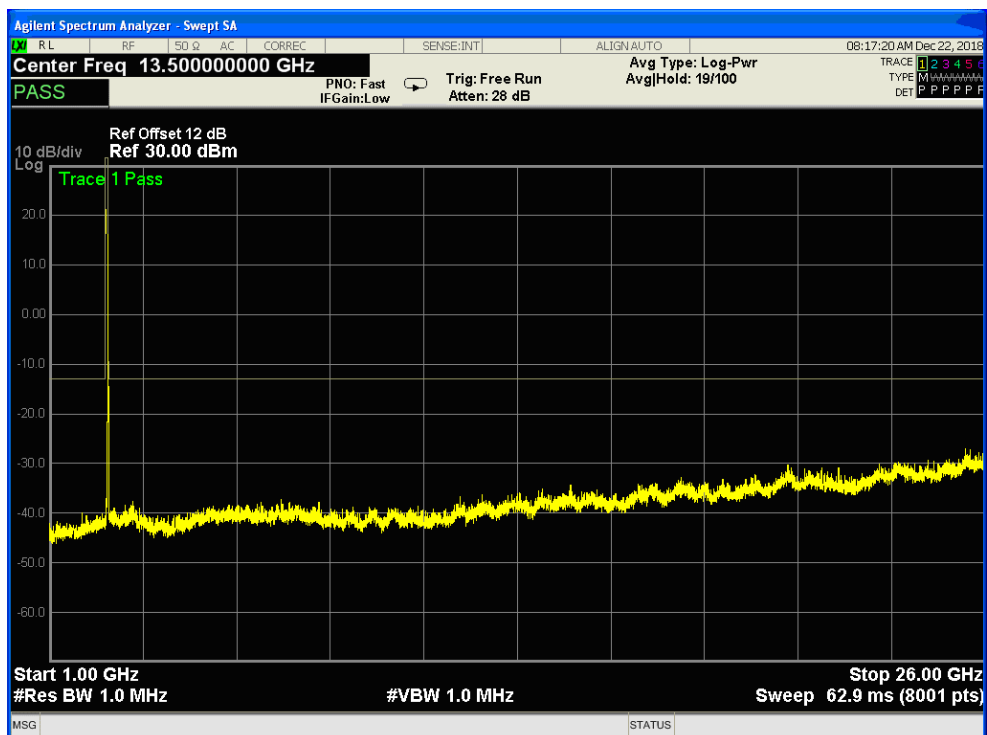
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



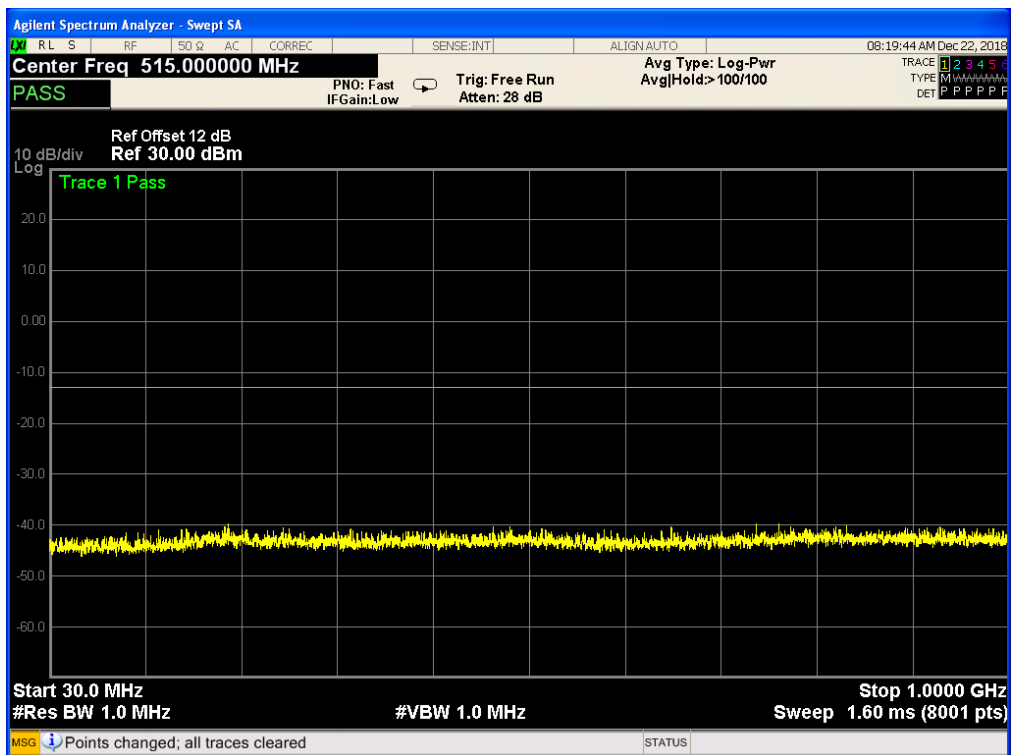
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



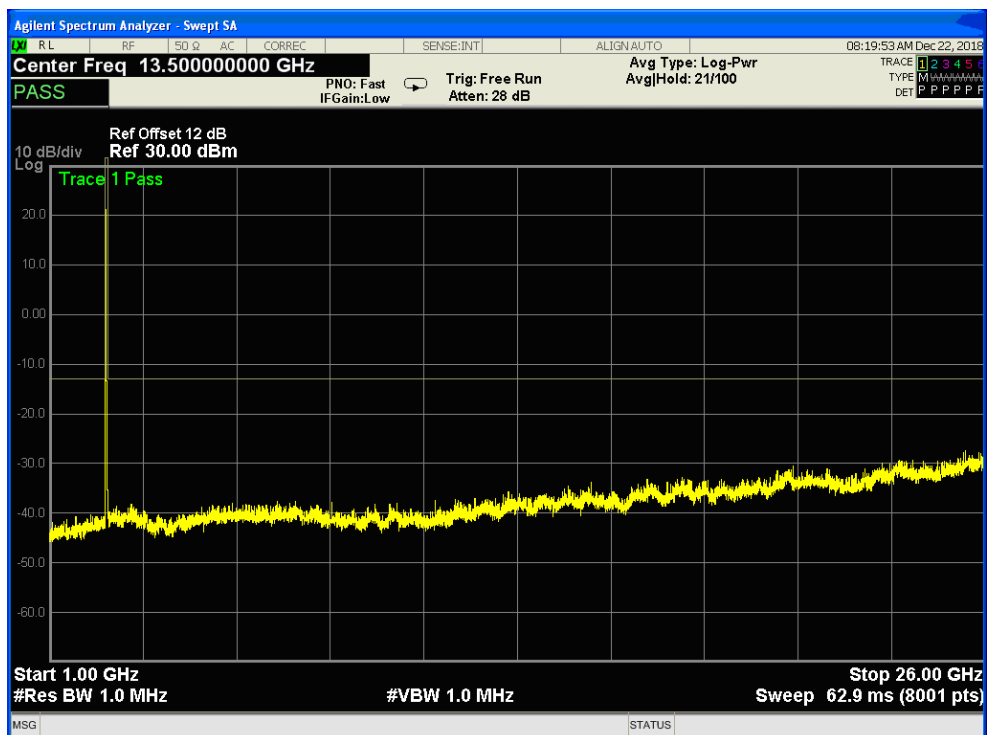
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



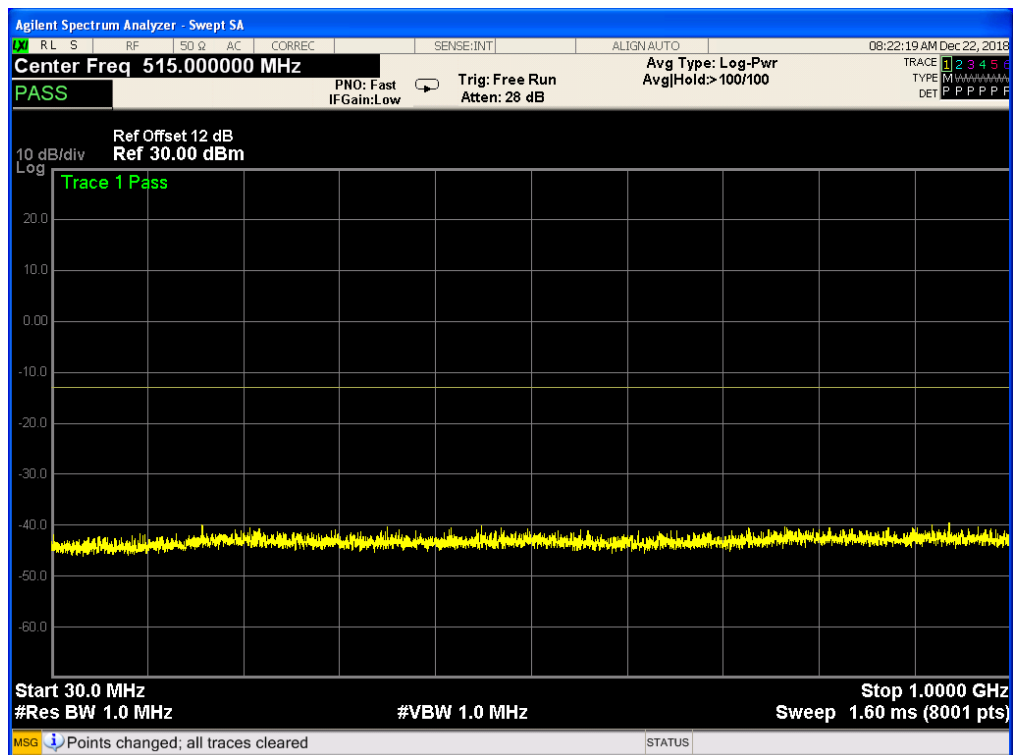
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



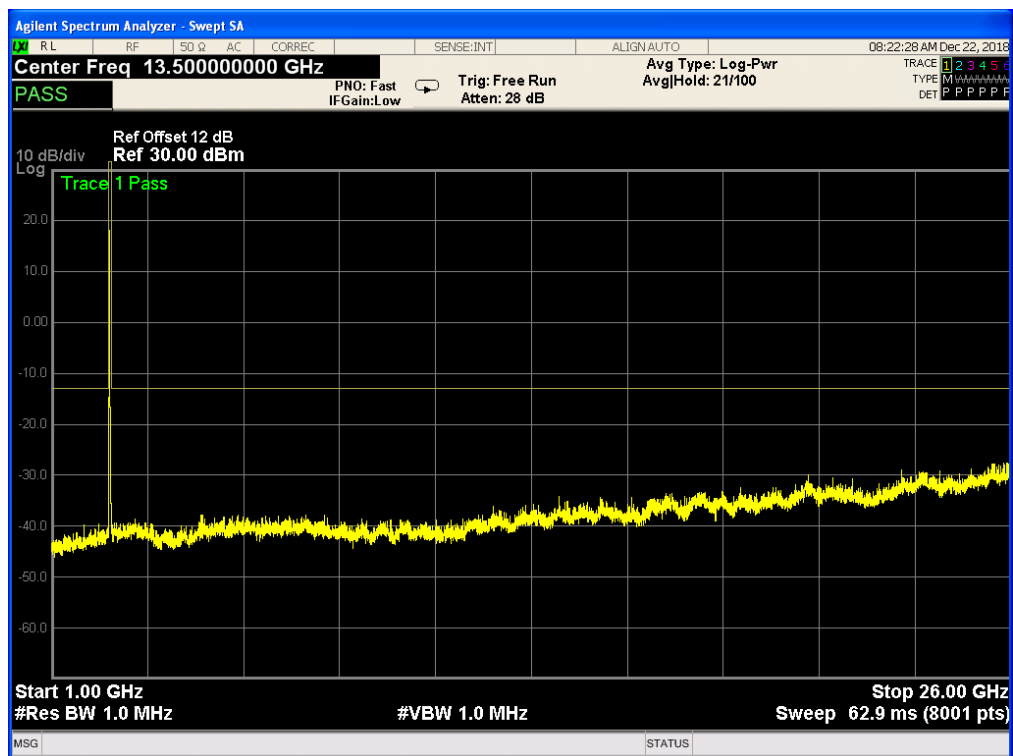
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



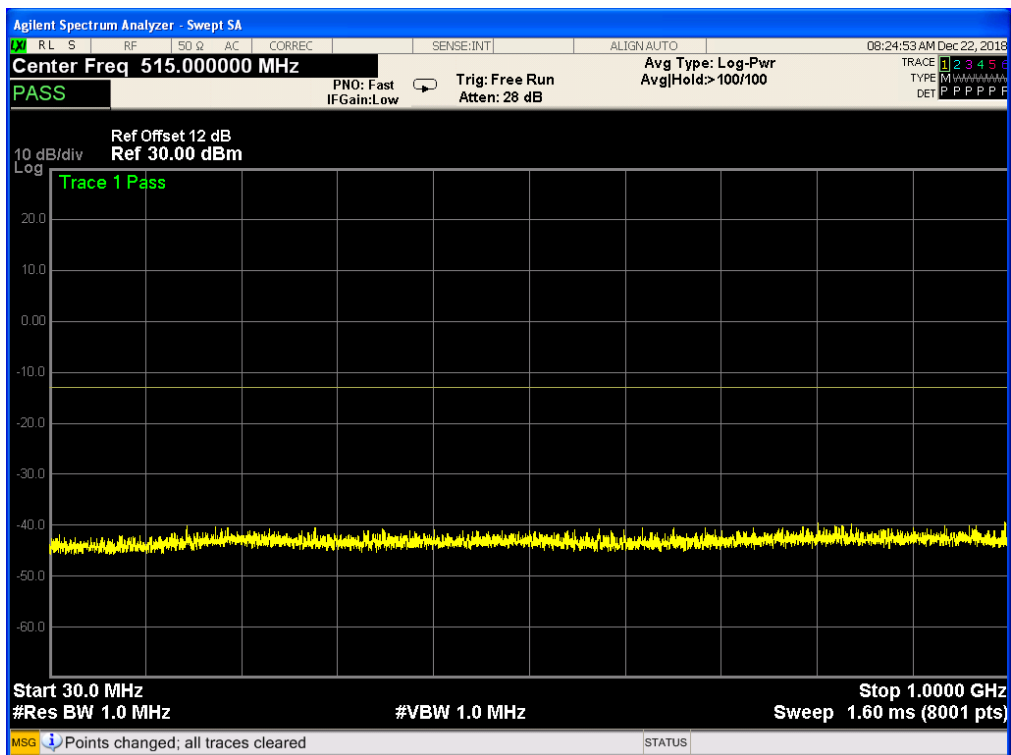
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



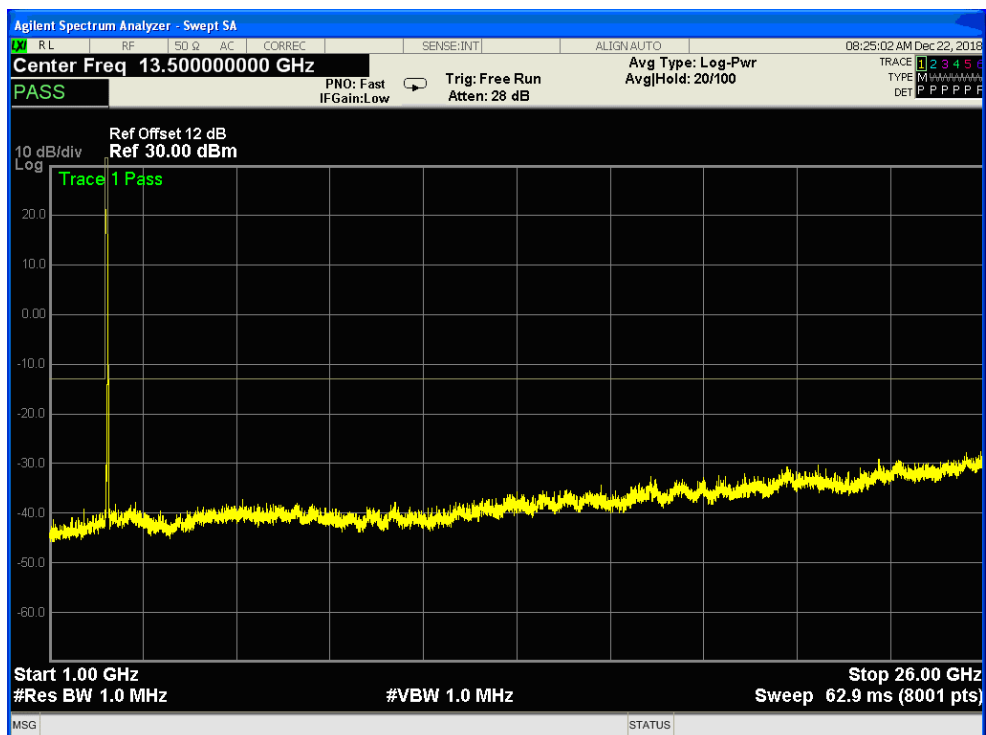
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



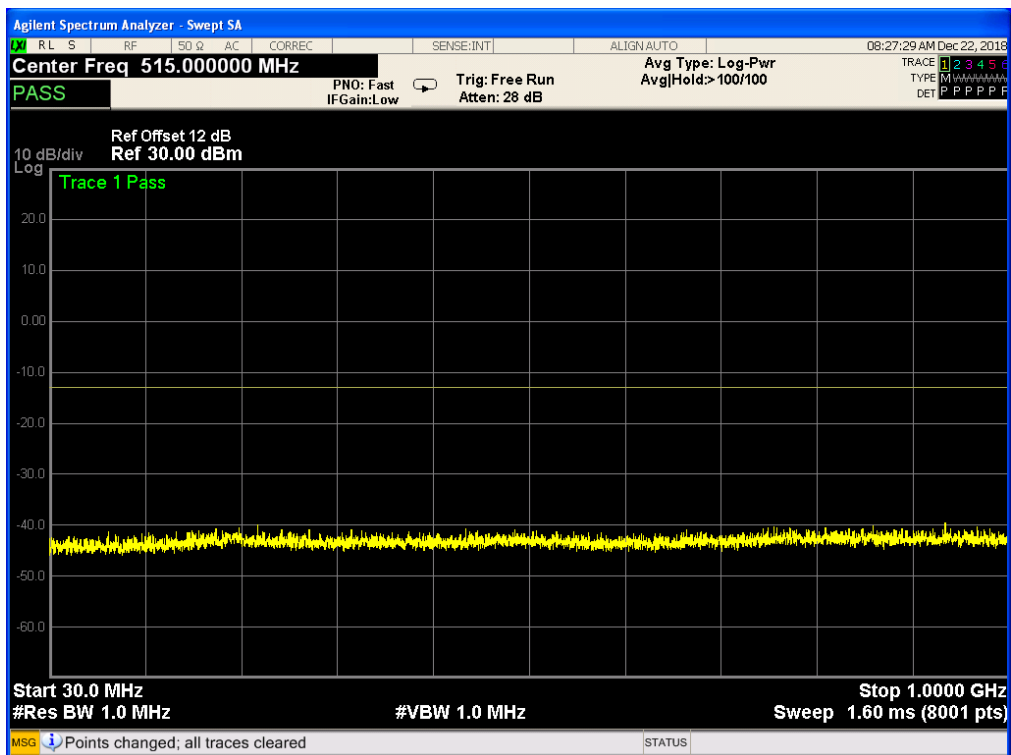
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



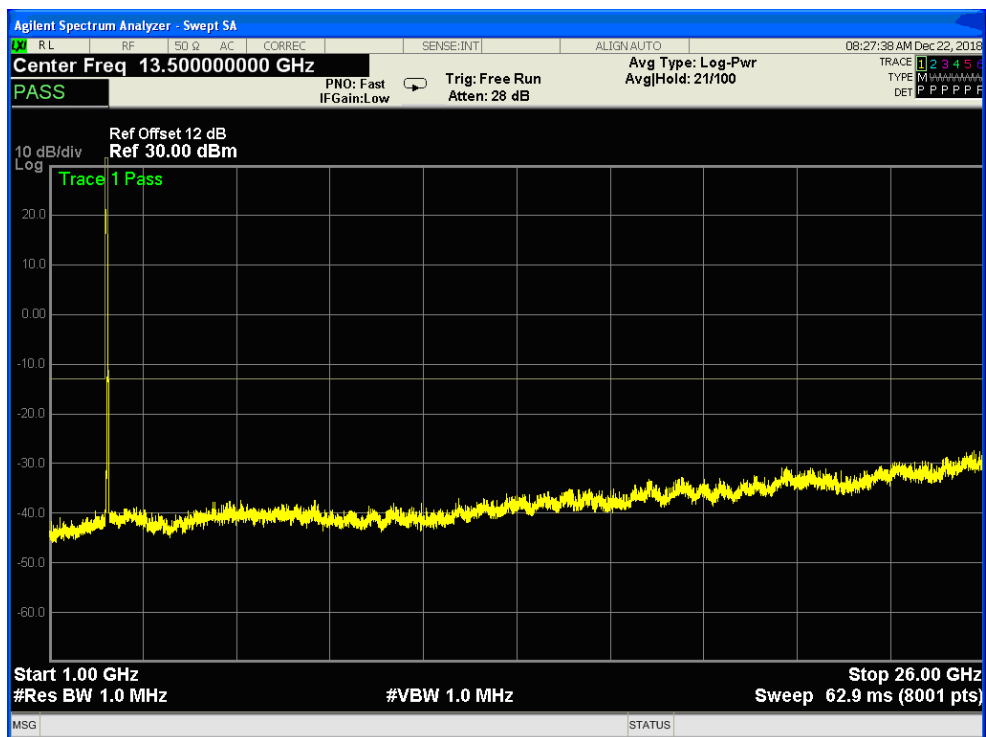
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



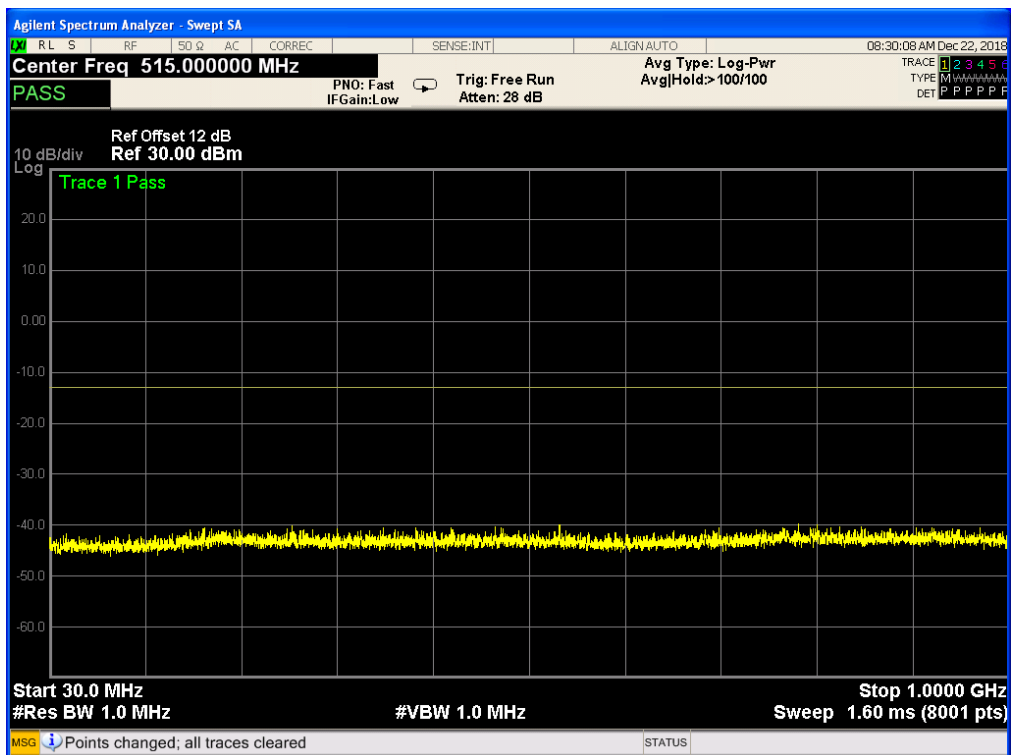
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



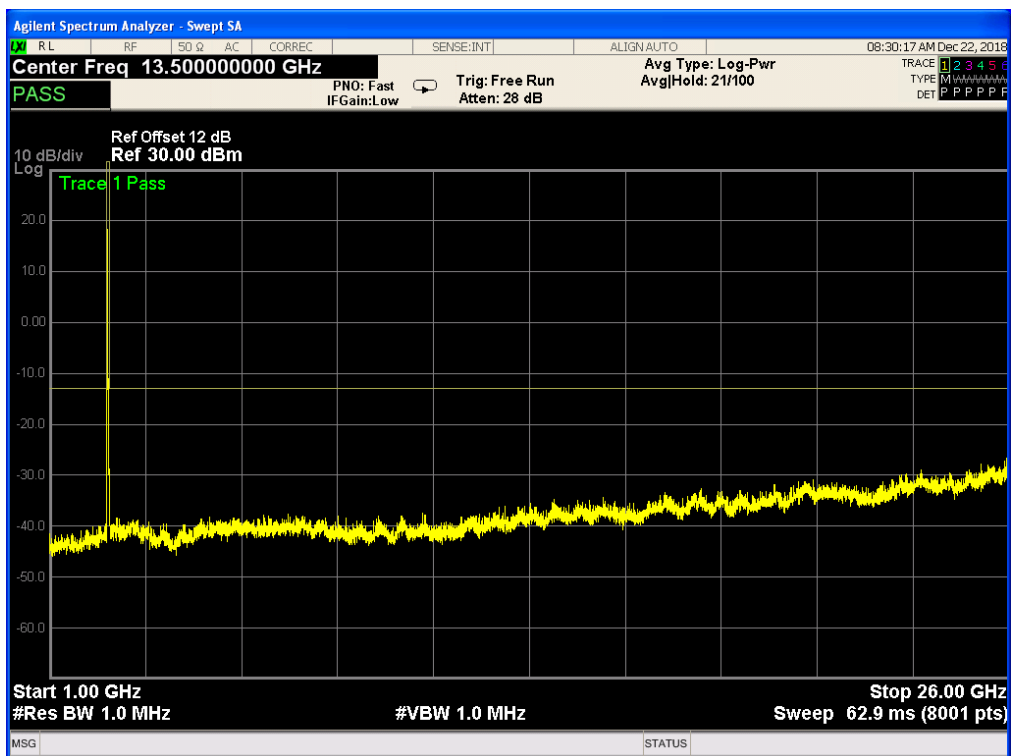
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



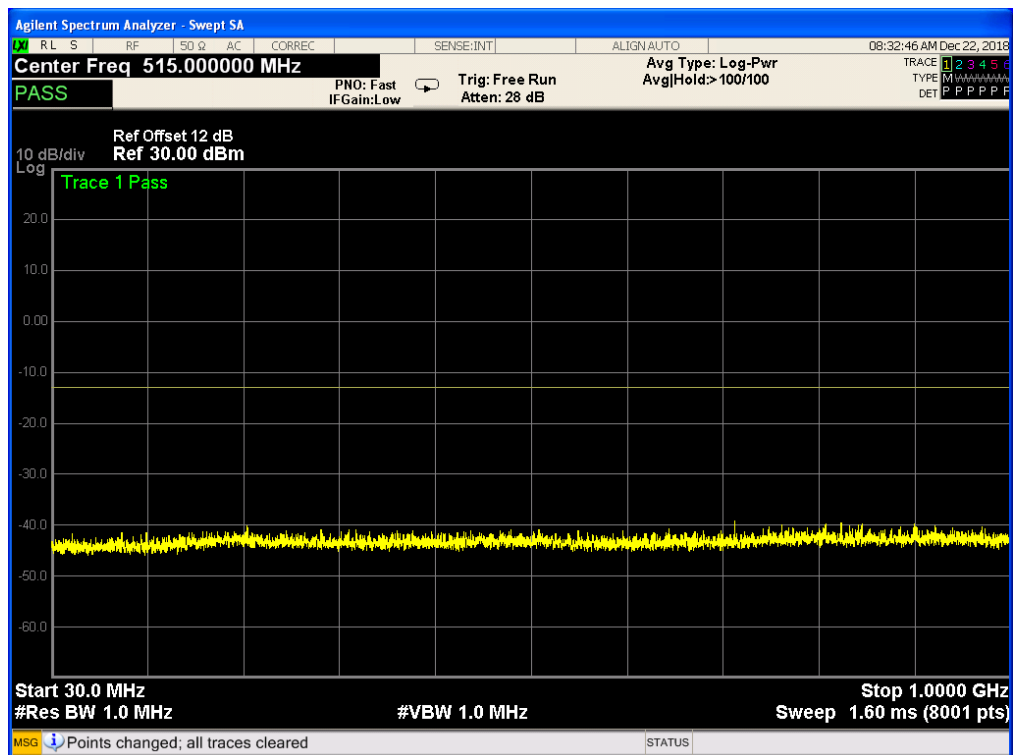
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



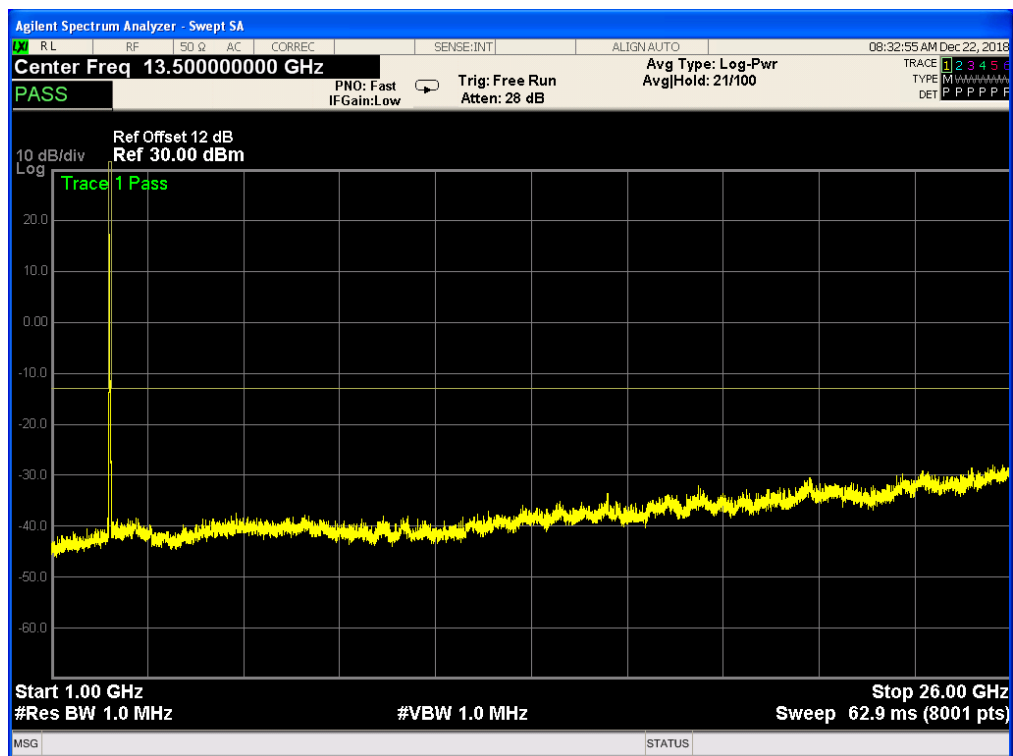
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



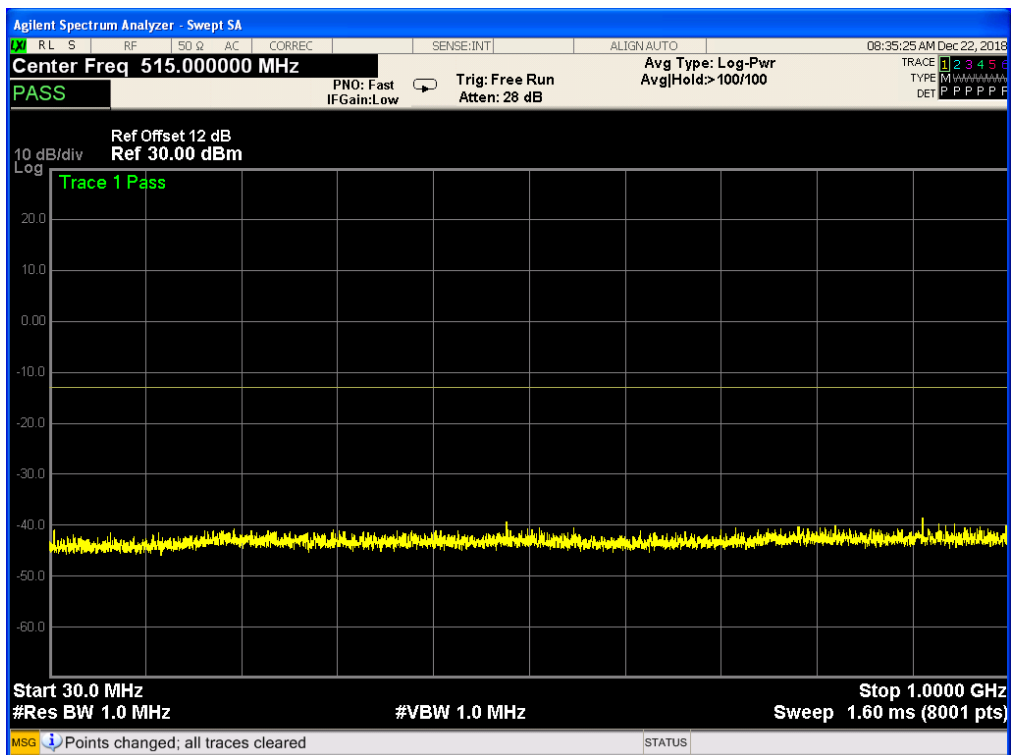
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



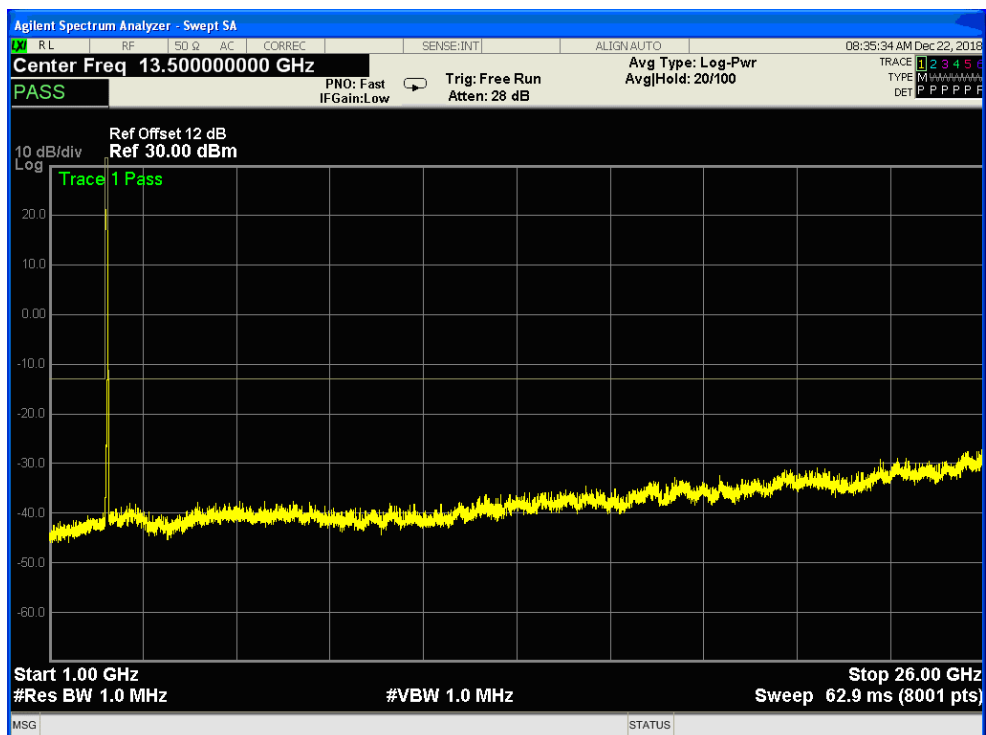
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



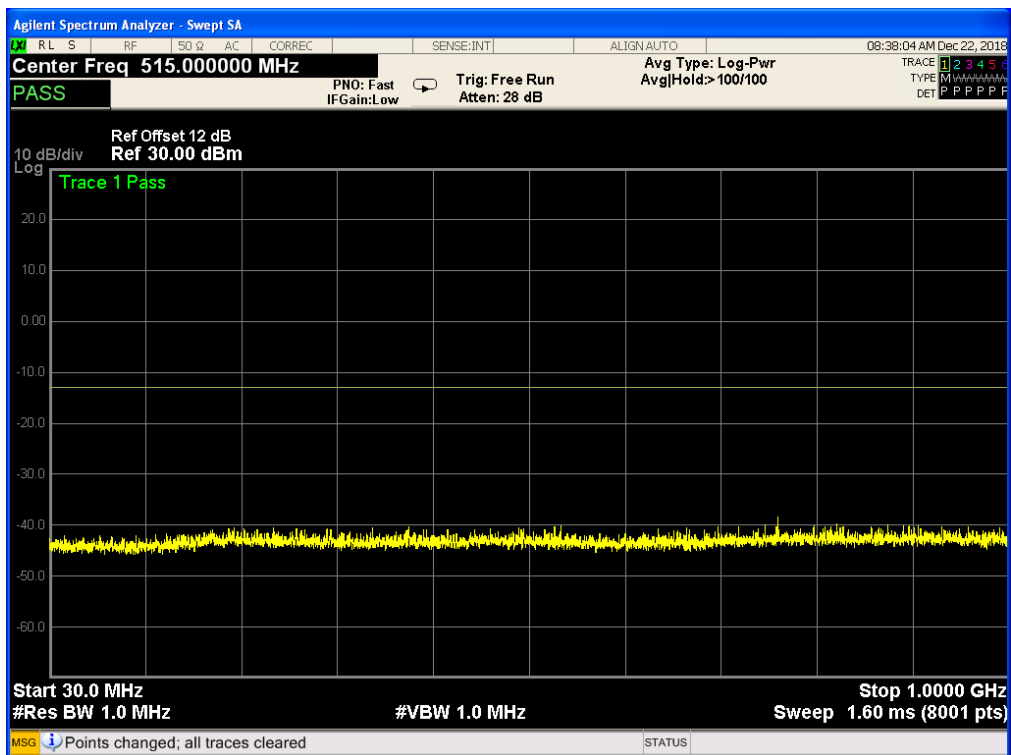
Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



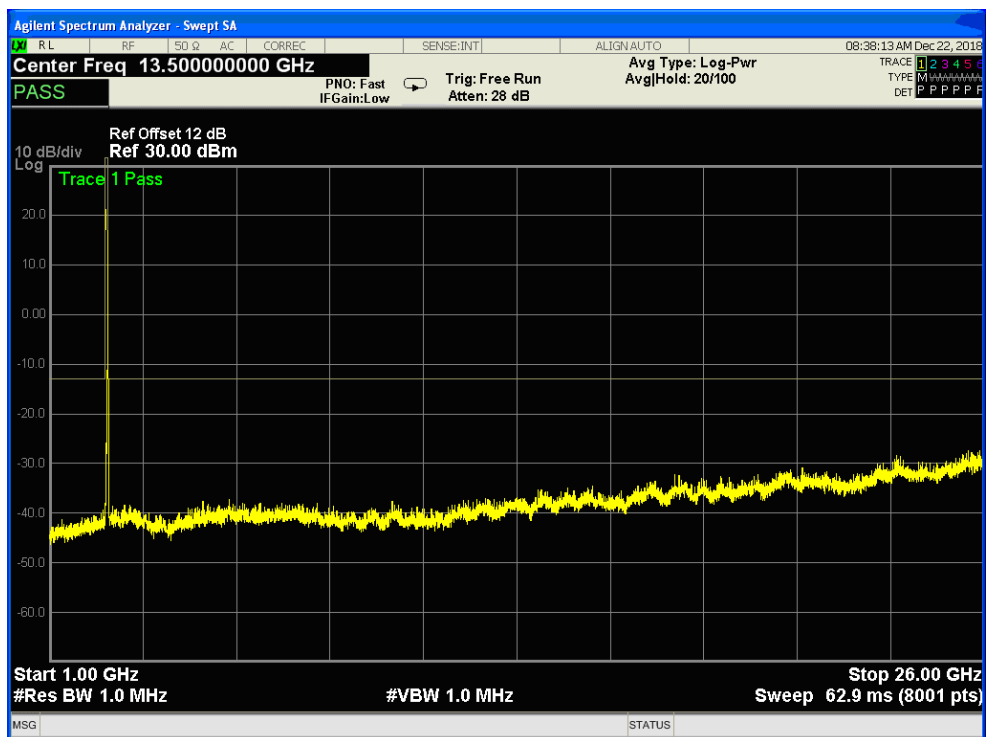
Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

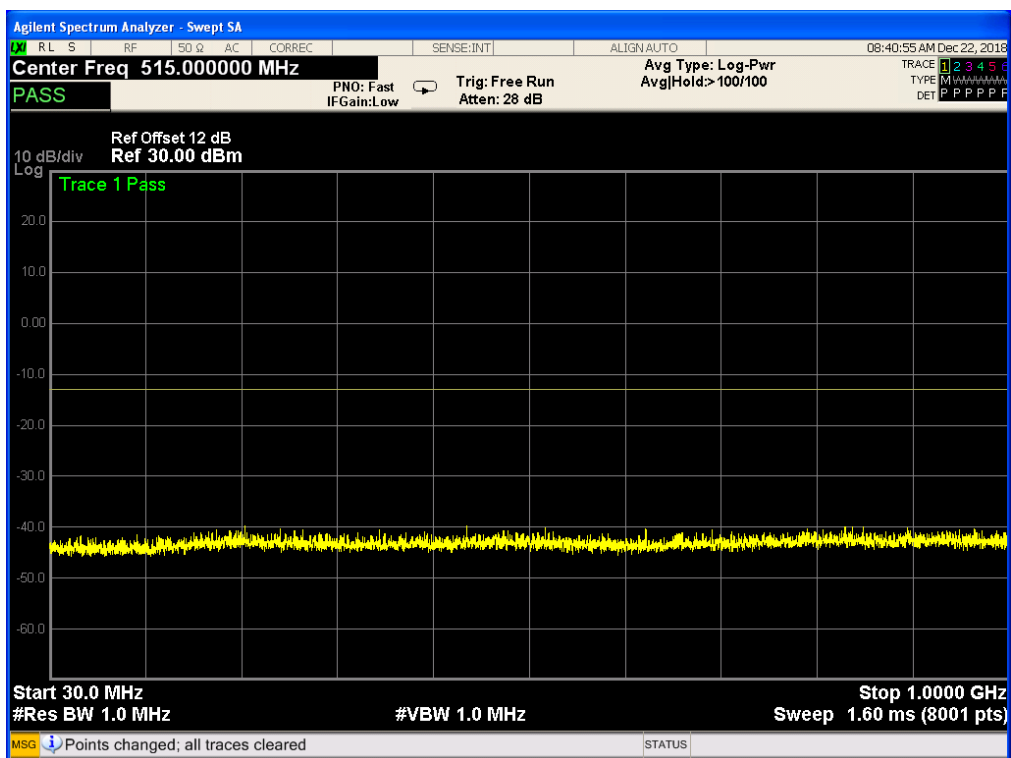


Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

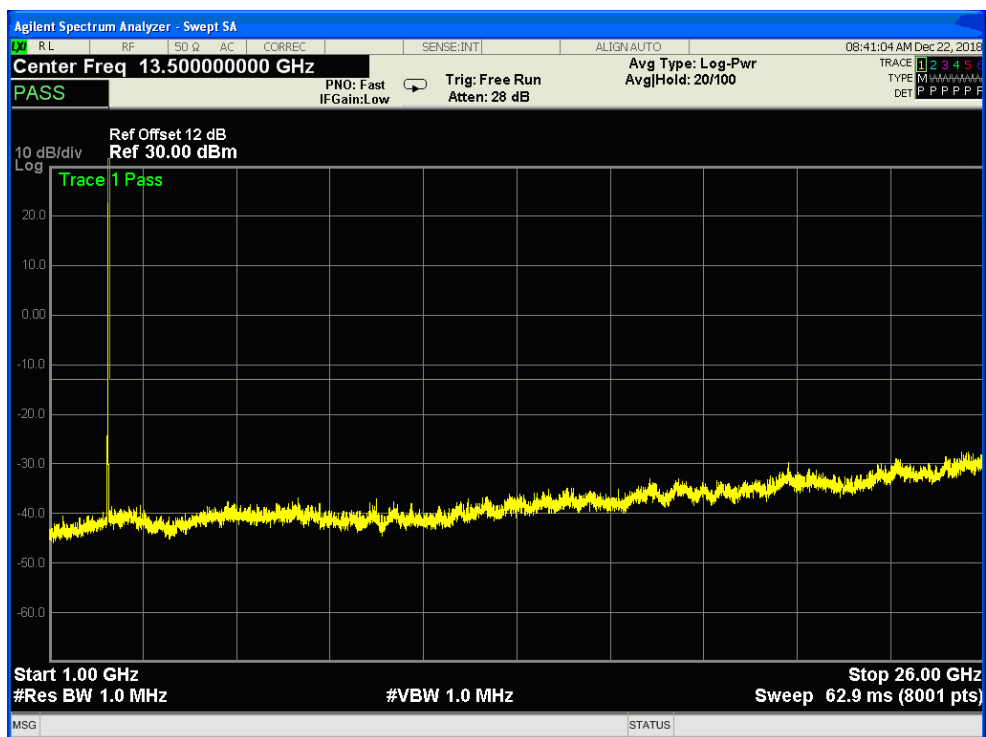


7.4 LTE BAND 38

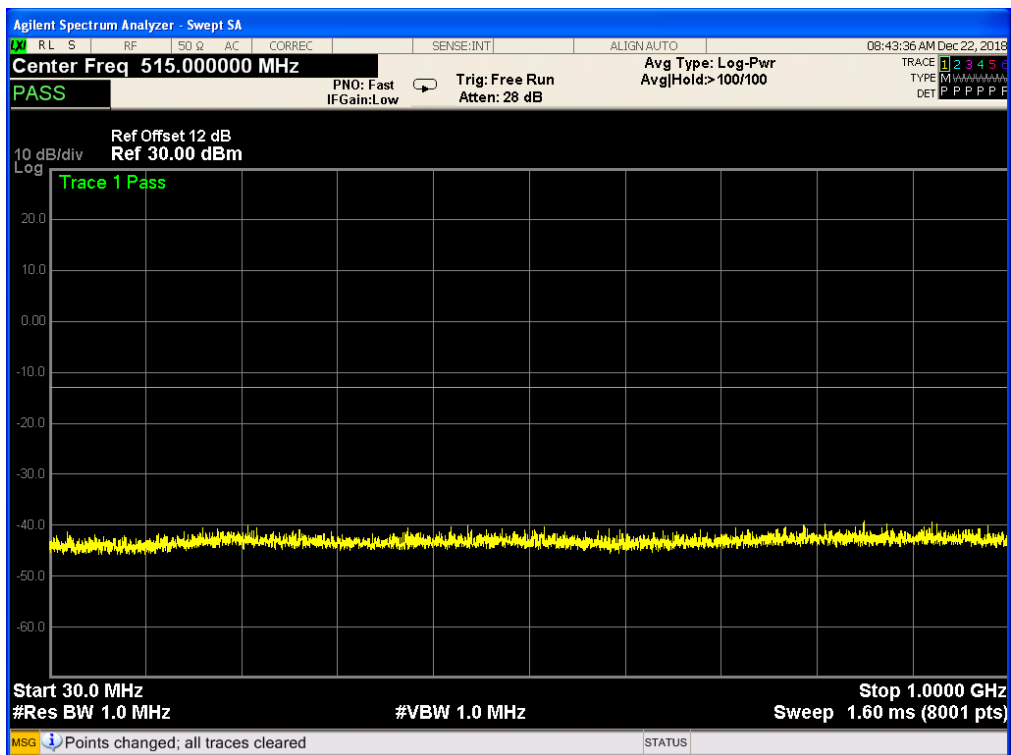
Band 38, UL Channel 37775, UL Frequency 2572.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



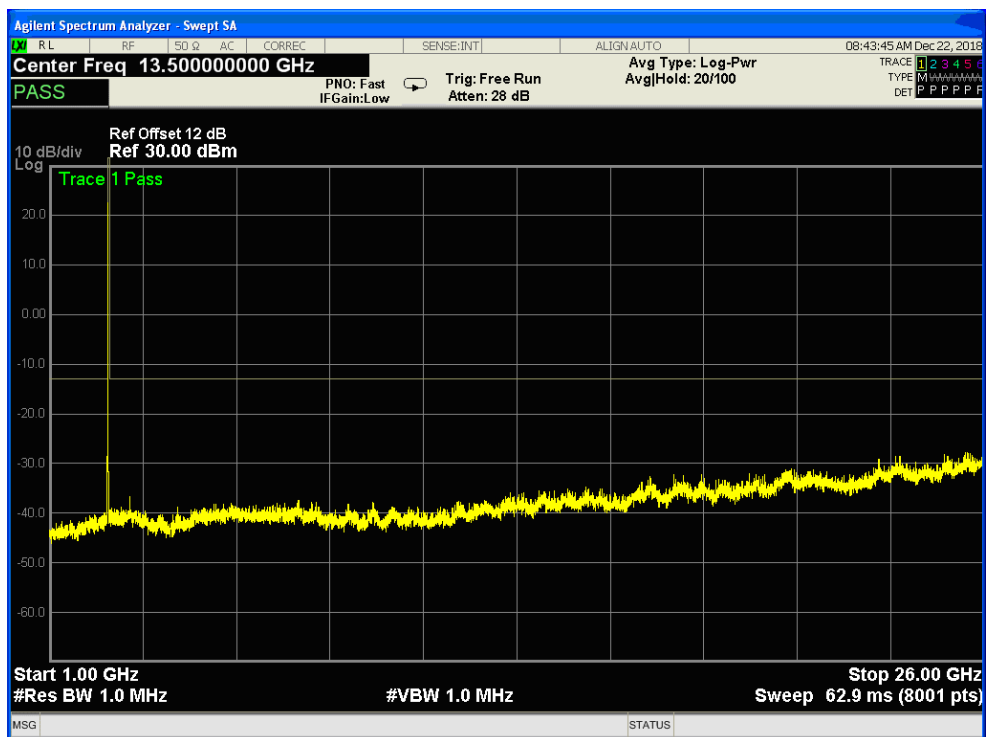
Band 38, UL Channel 37775, UL Frequency 2572.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



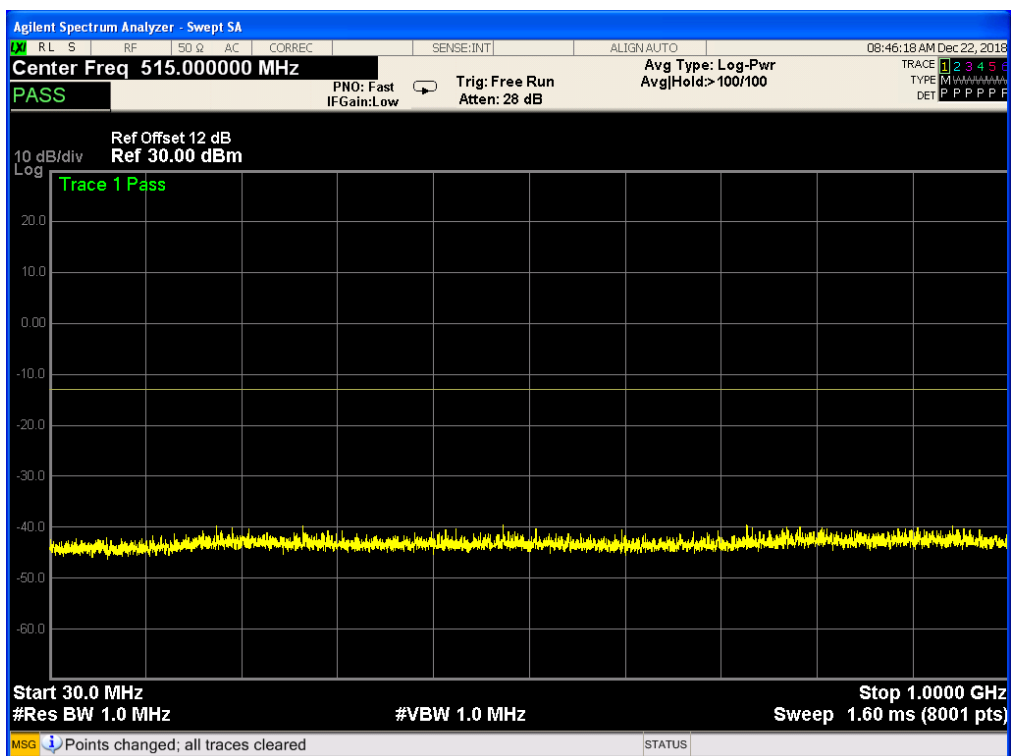
Band 38,UL Channel 37775,UL Frequency 2572.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



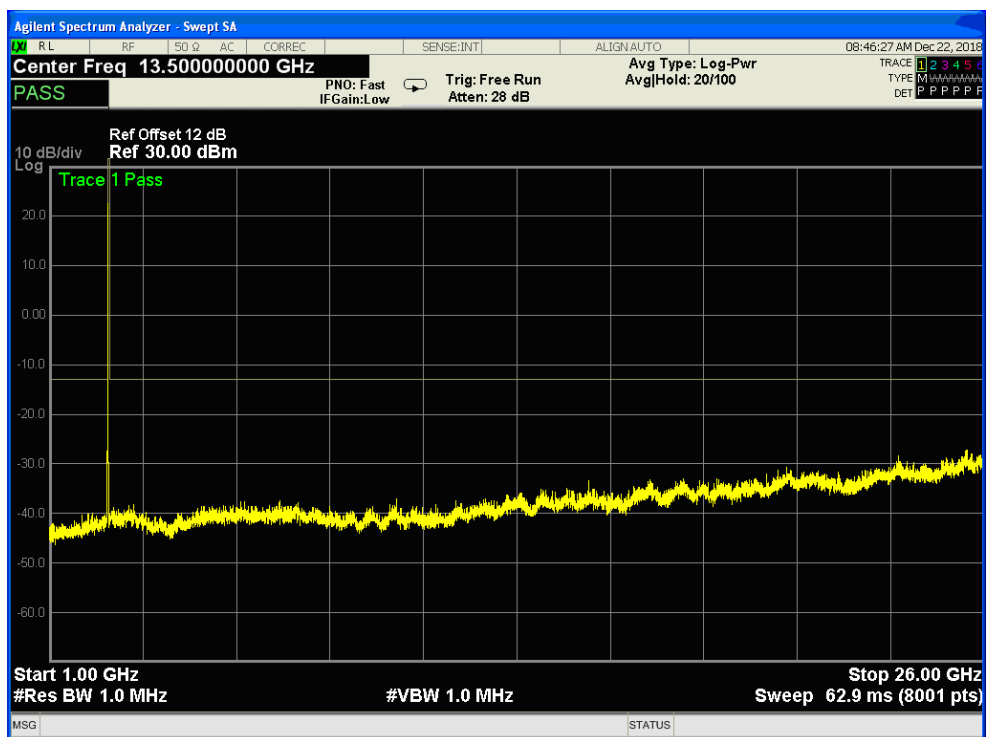
Band 38,UL Channel 37775,UL Frequency 2572.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



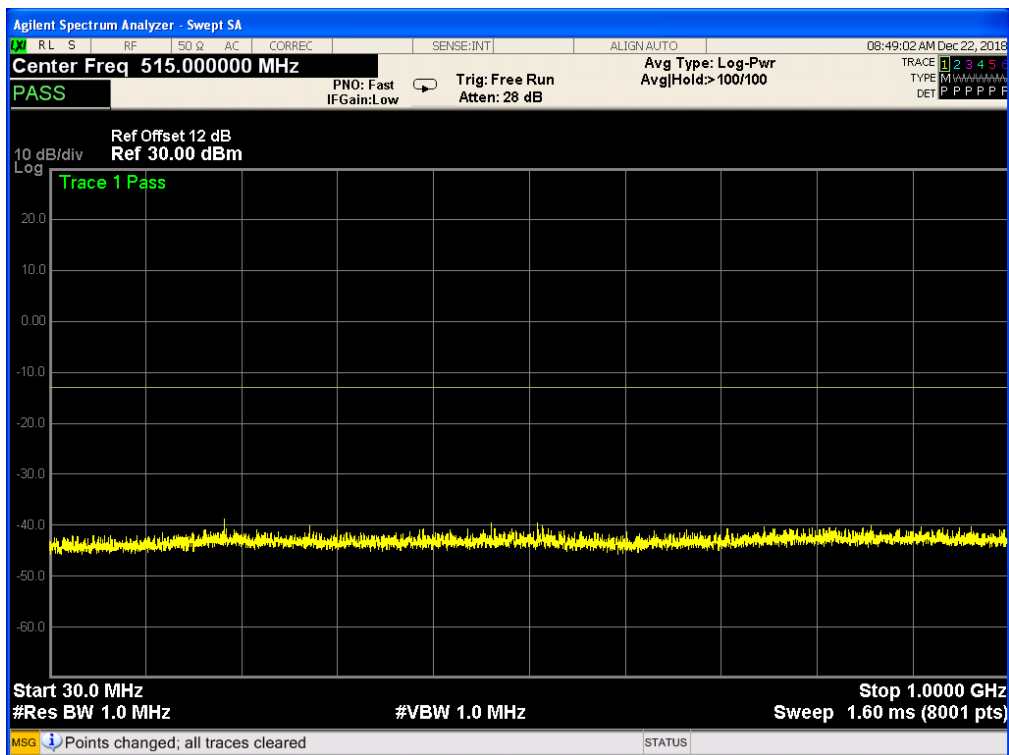
Band 38,UL Channel 38225,UL Frequency 2617.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



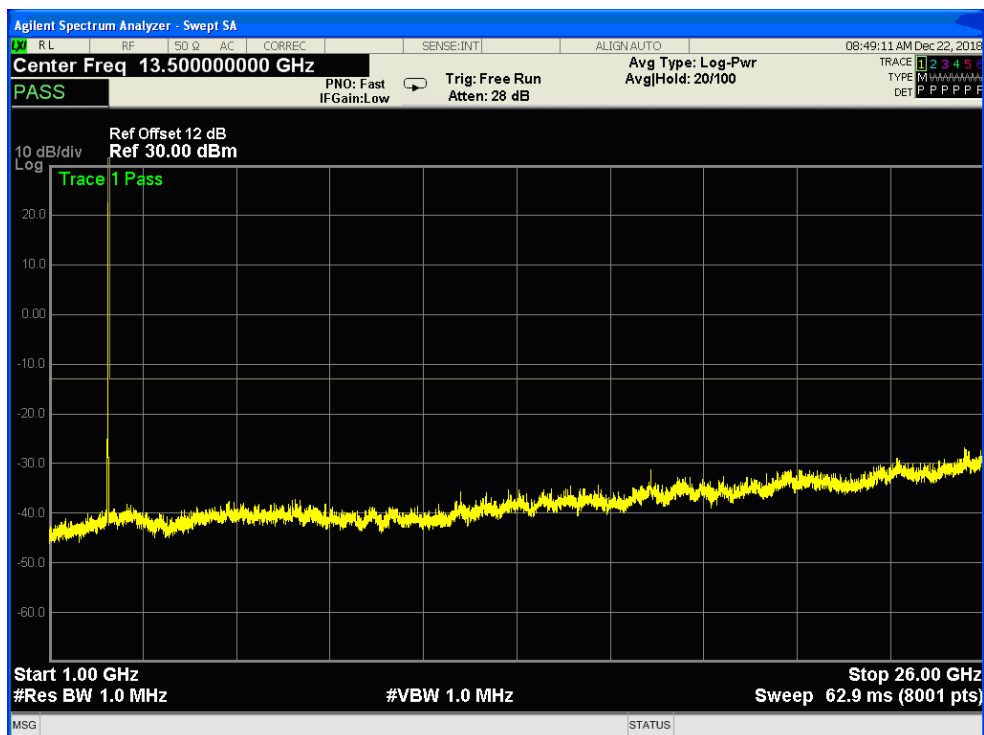
Band 38,UL Channel 38225,UL Frequency 2617.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



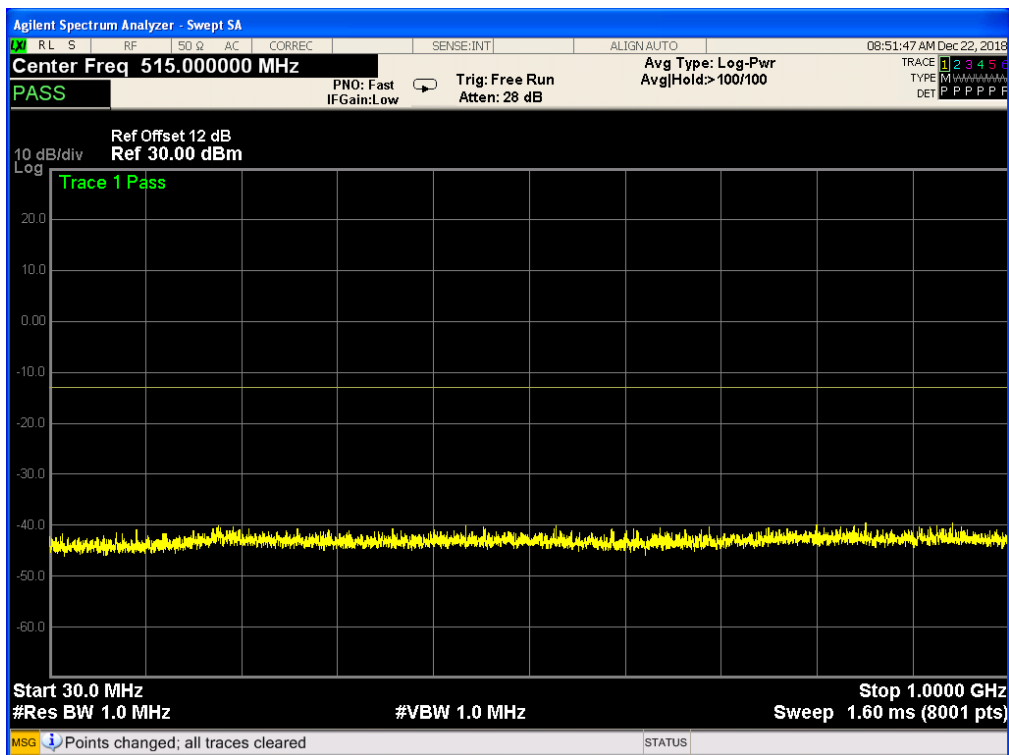
Band 38, UL Channel 38225, UL Frequency 2617.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



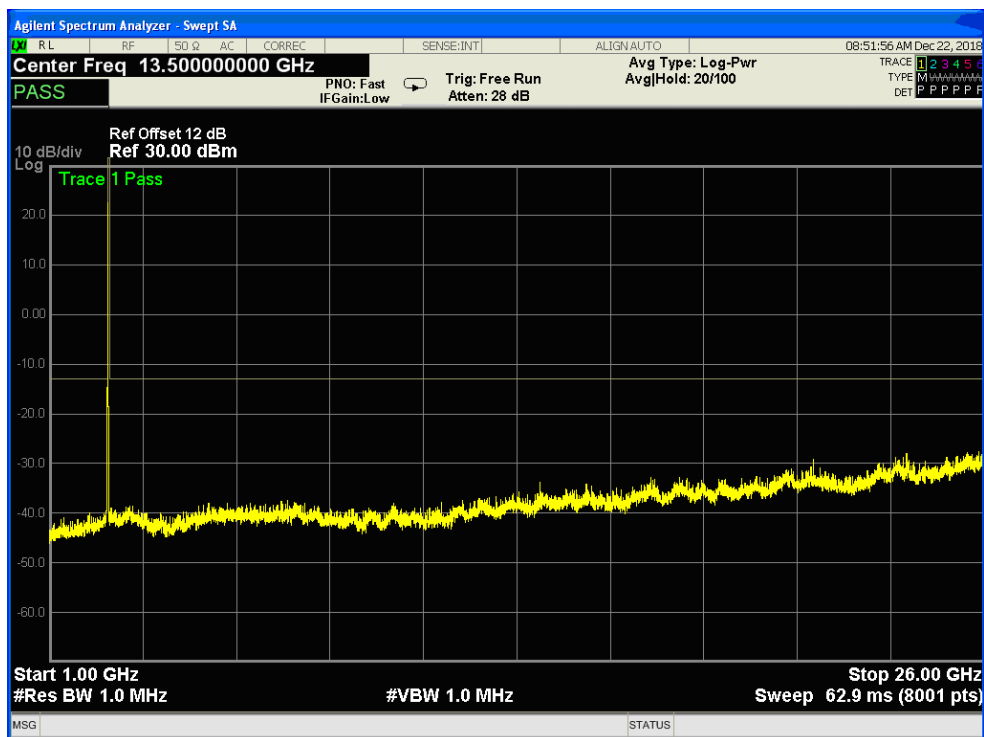
Band 38, UL Channel 38225, UL Frequency 2617.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



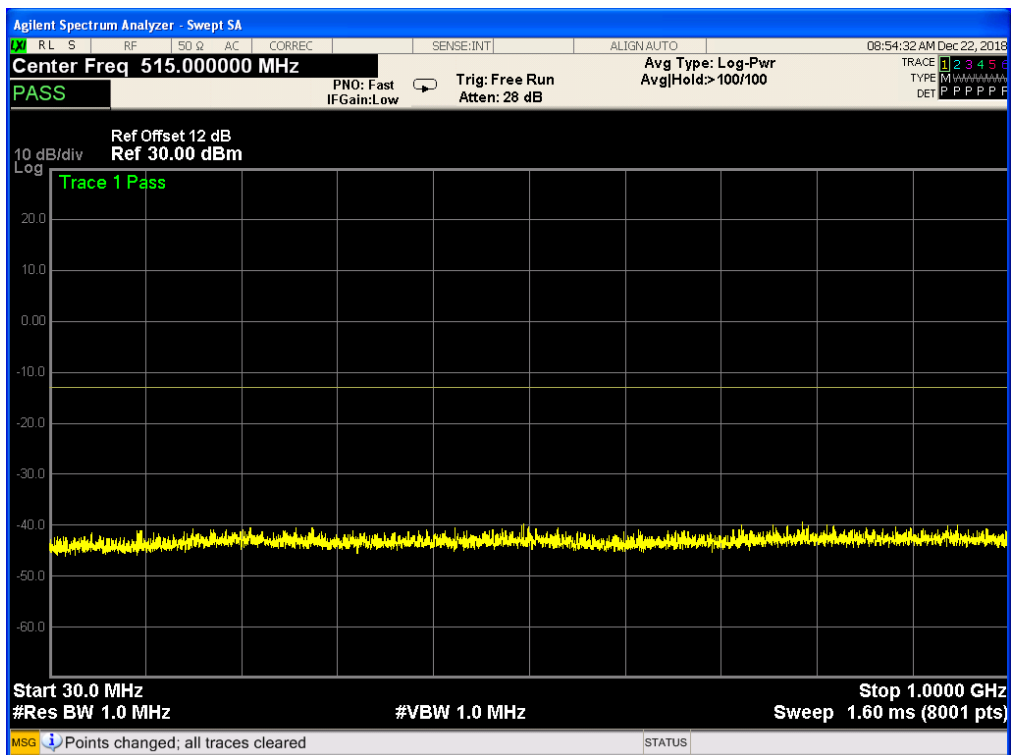
Band 38,UL Channel 37800,UL Frequency 2575.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



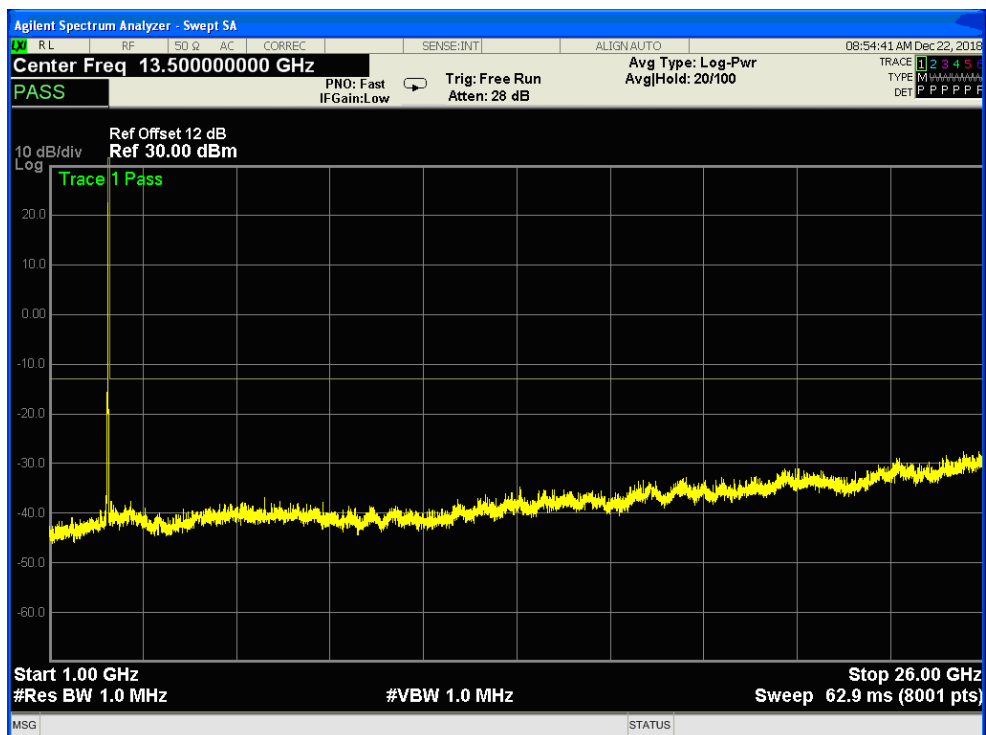
Band 38,UL Channel 37800,UL Frequency 2575.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



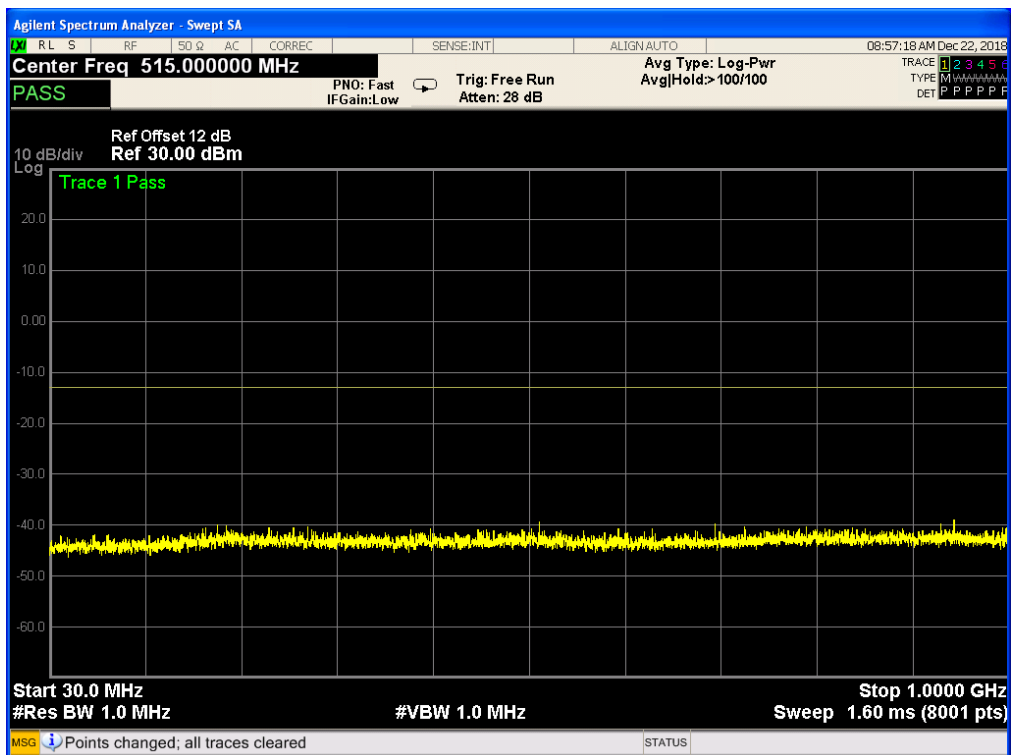
Band 38,UL Channel 37800,UL Frequency 2575.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



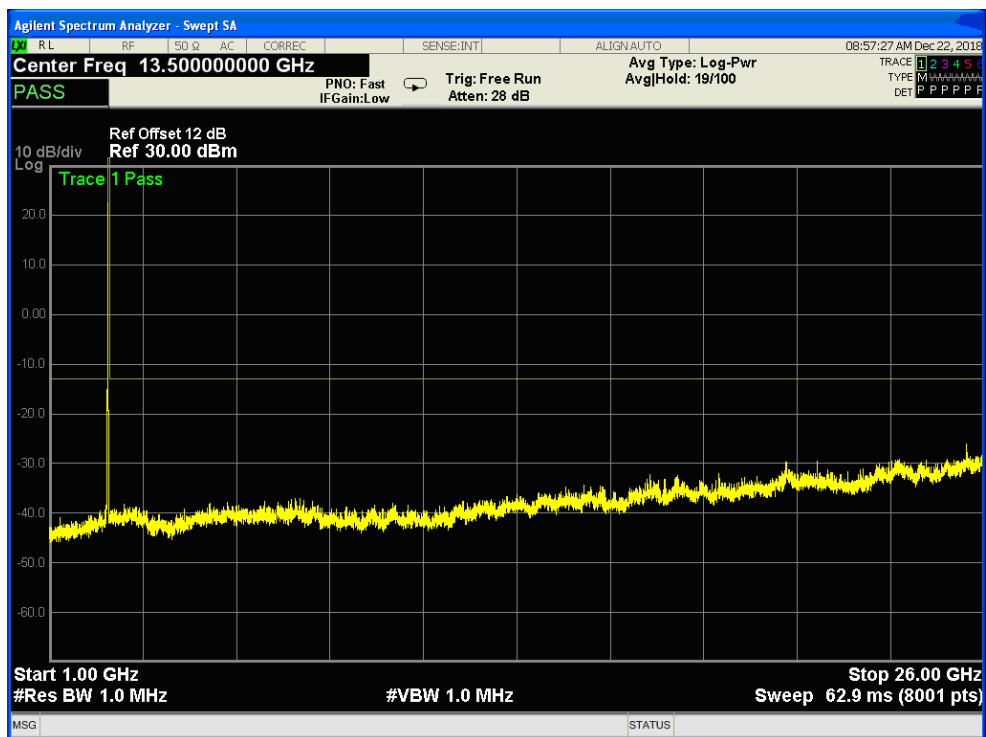
Band 38,UL Channel 37800,UL Frequency 2575.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



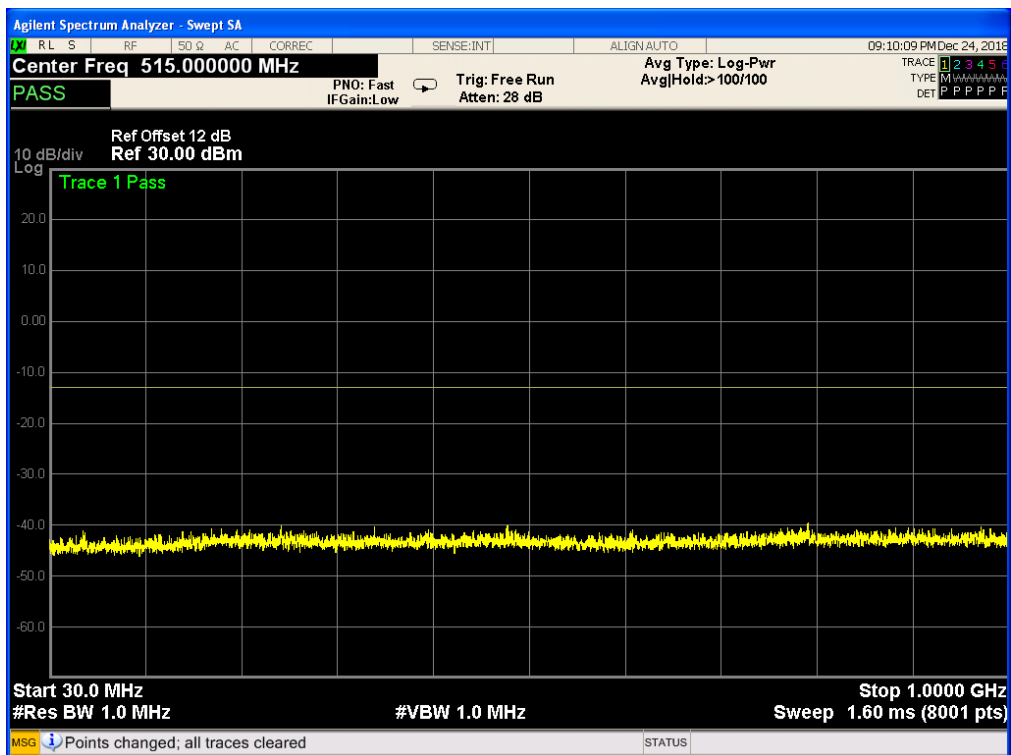
Band 38,UL Channel 38200,UL Frequency 2615.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



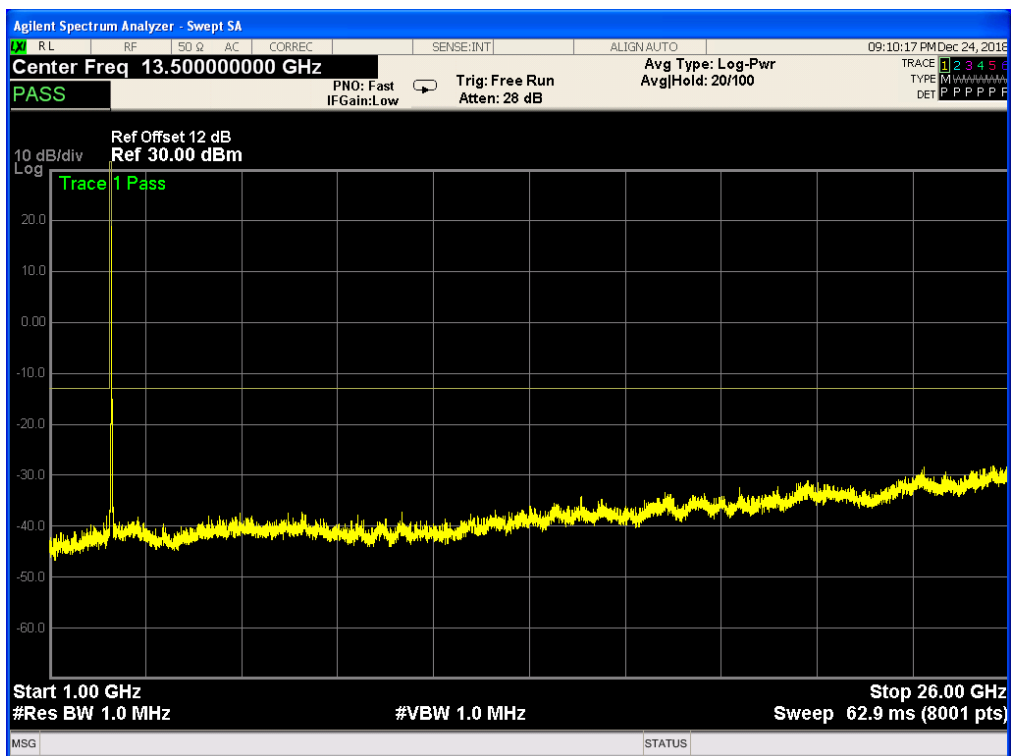
Band 38,UL Channel 38200,UL Frequency 2615.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



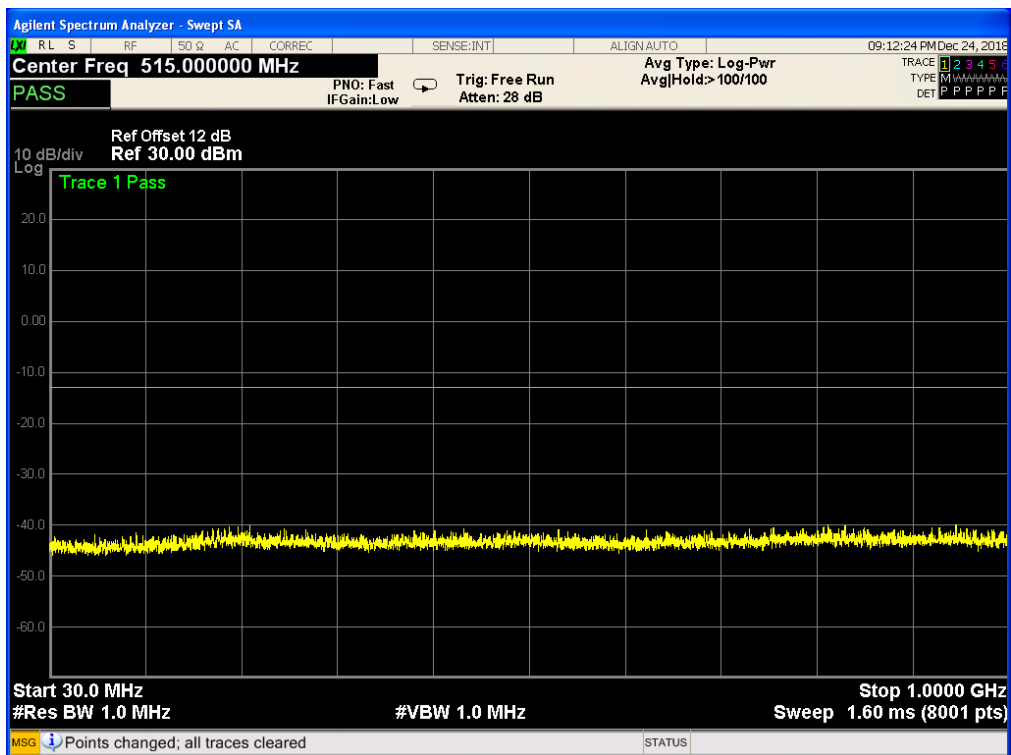
Band 38, UL Channel 38200, UL Frequency 2615.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



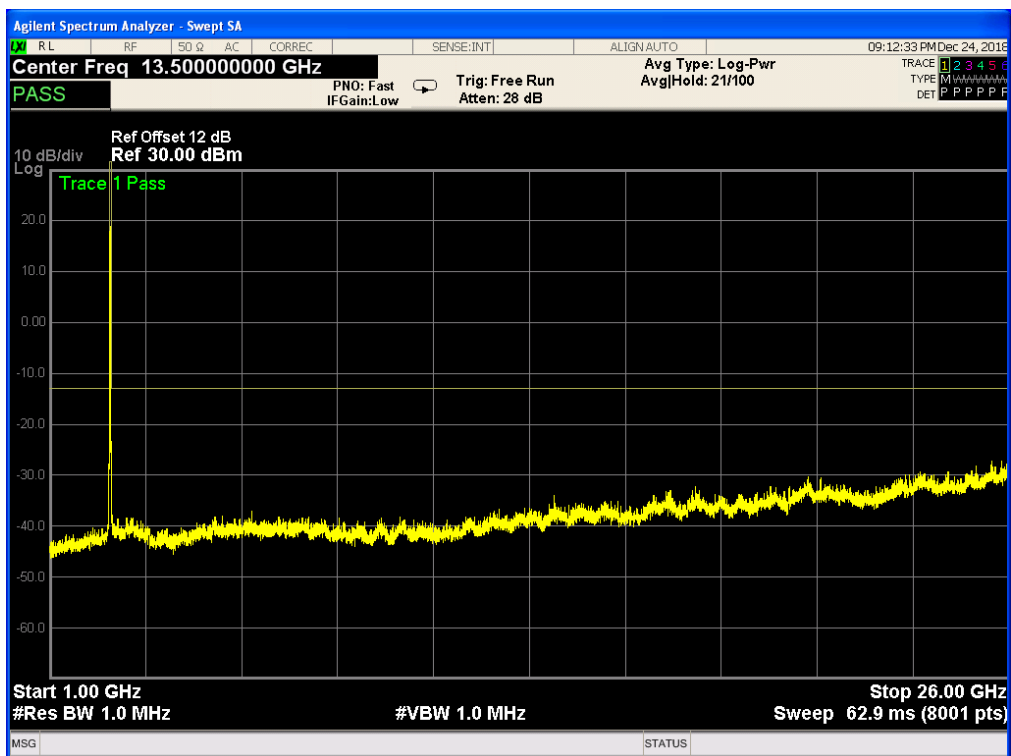
Band 38, UL Channel 38200, UL Frequency 2615.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



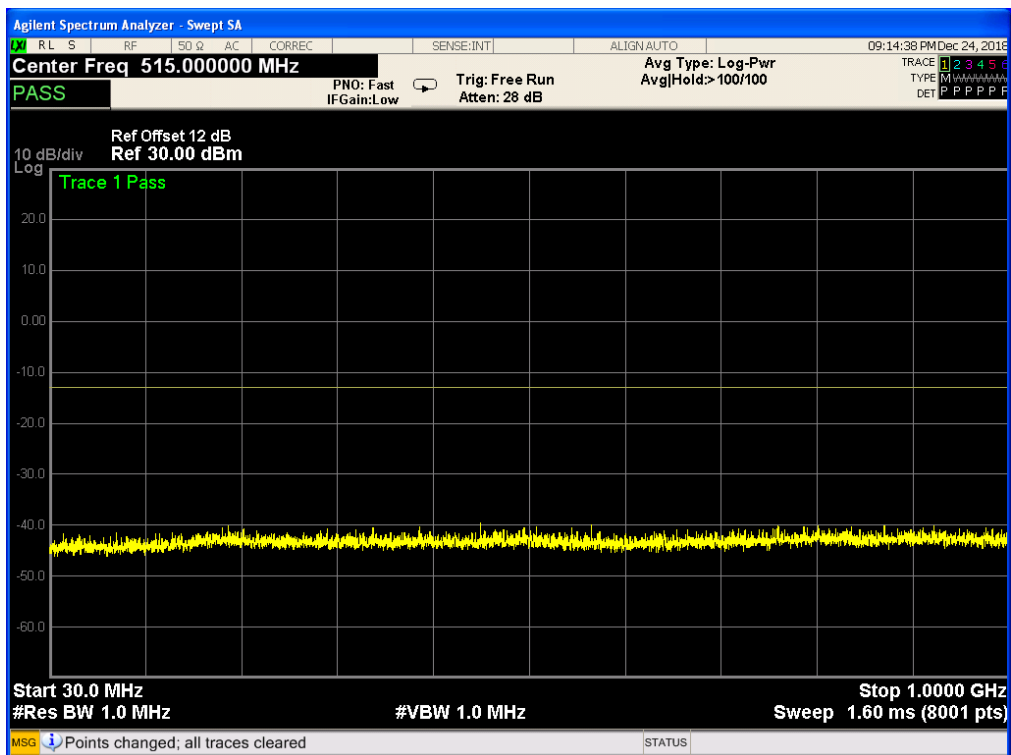
Band 38,UL Channel 37825,UL Frequency 2577.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



Band 38,UL Channel 37825,UL Frequency 2577.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



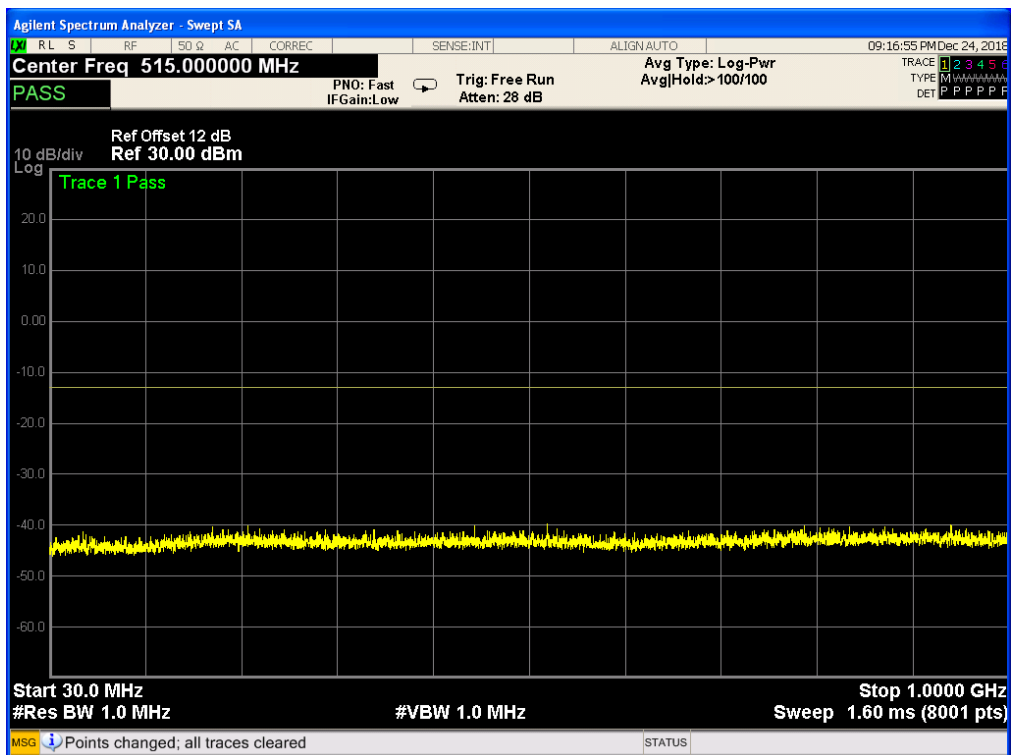
Band 38, UL Channel 37825, UL Frequency 2577.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



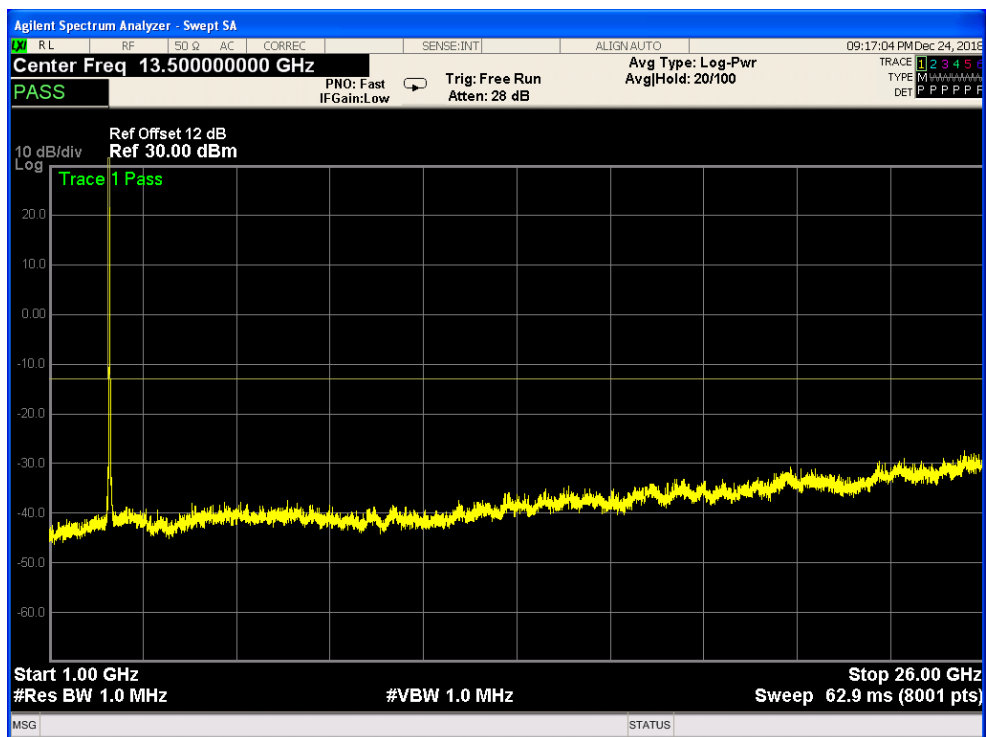
Band 38, UL Channel 37825, UL Frequency 2577.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



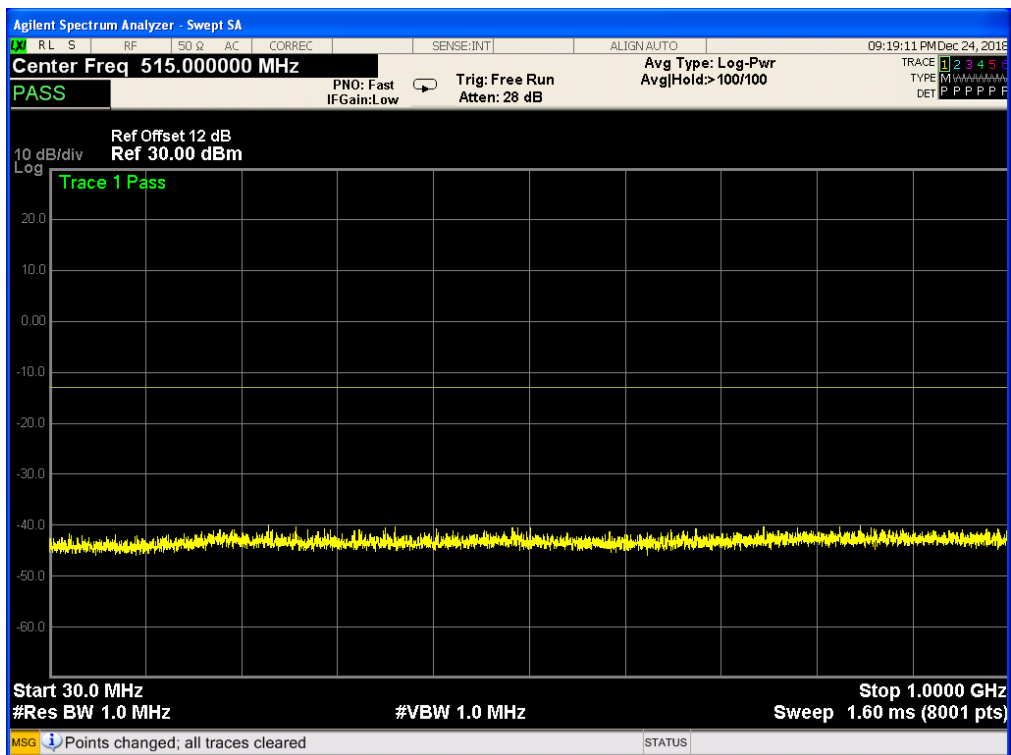
Band 38,UL Channel 38175,UL Frequency 2612.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



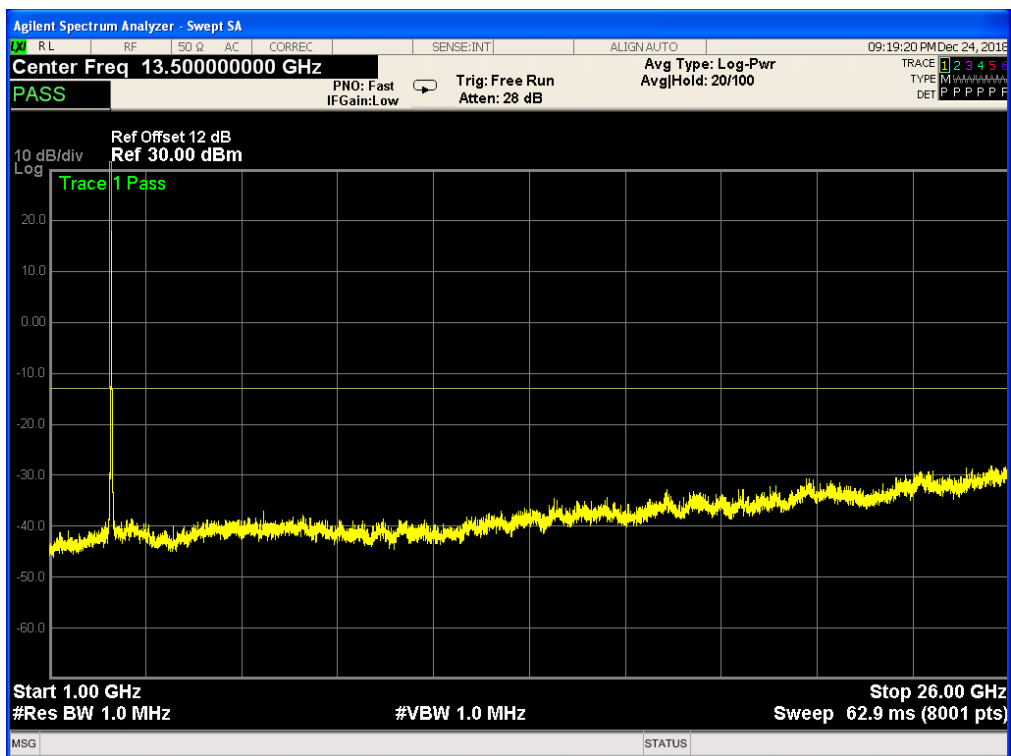
Band 38,UL Channel 38175,UL Frequency 2612.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK



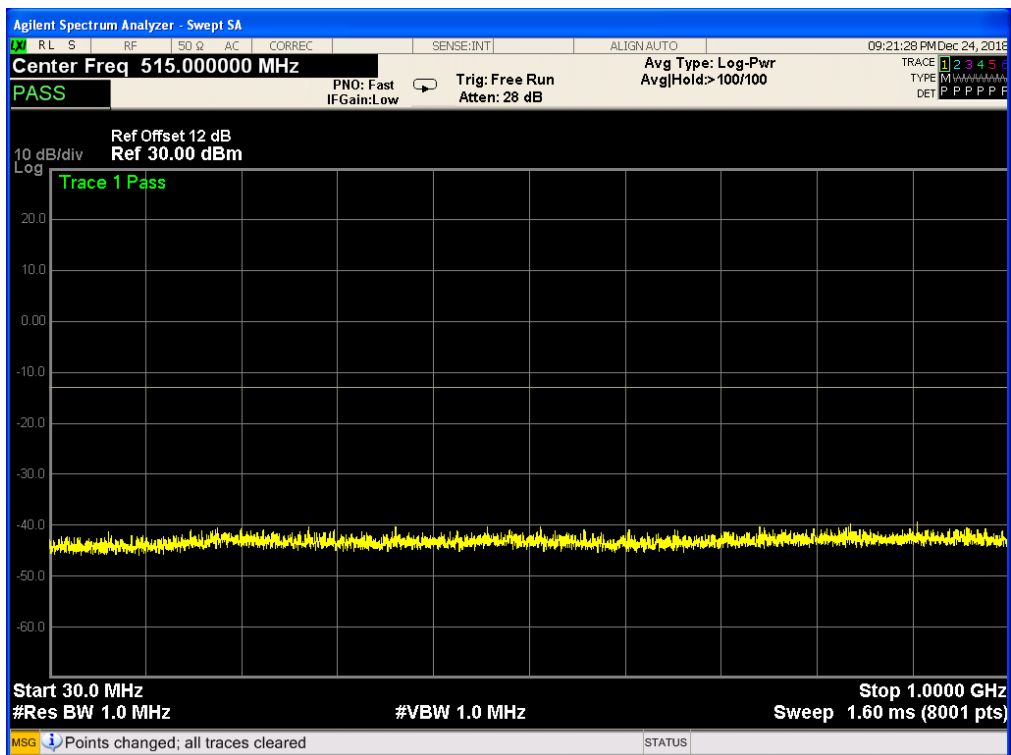
Band 38, UL Channel 38175, UL Frequency 2612.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



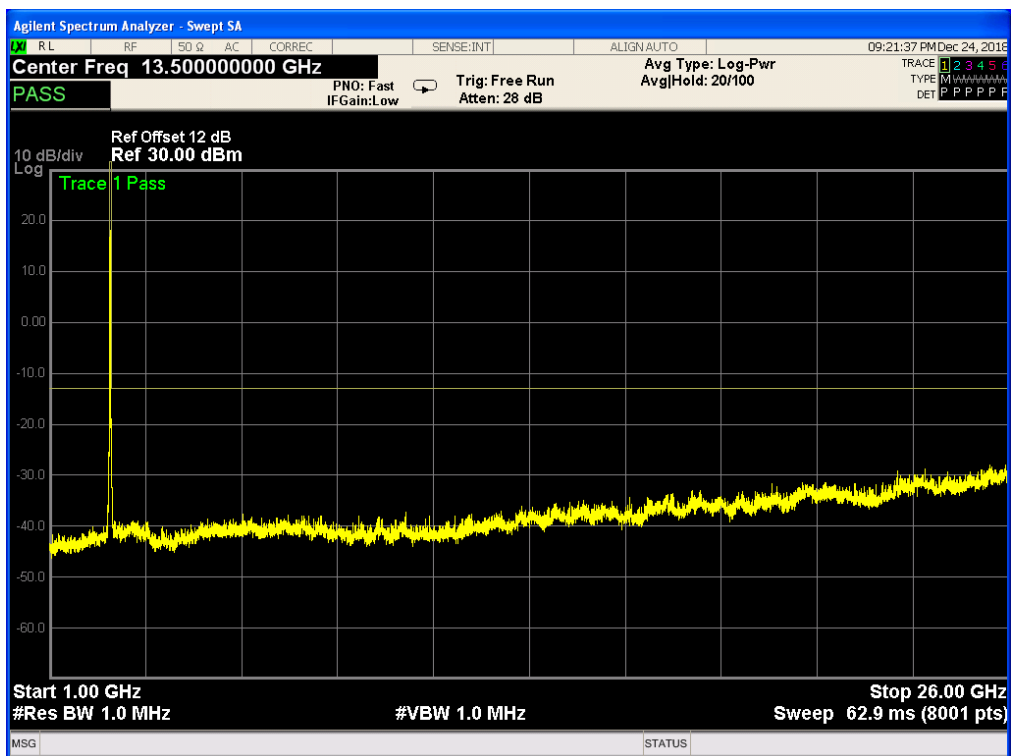
Band 38, UL Channel 38175, UL Frequency 2612.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



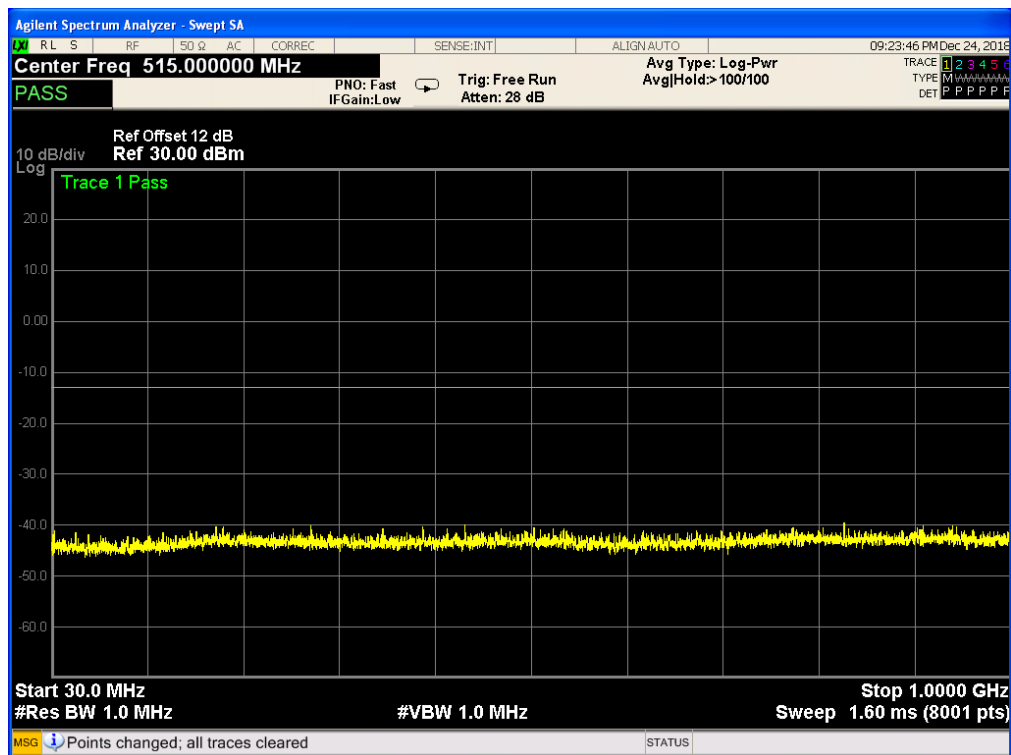
Band 38,UL Channel 37850,UL Frequency 2580.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



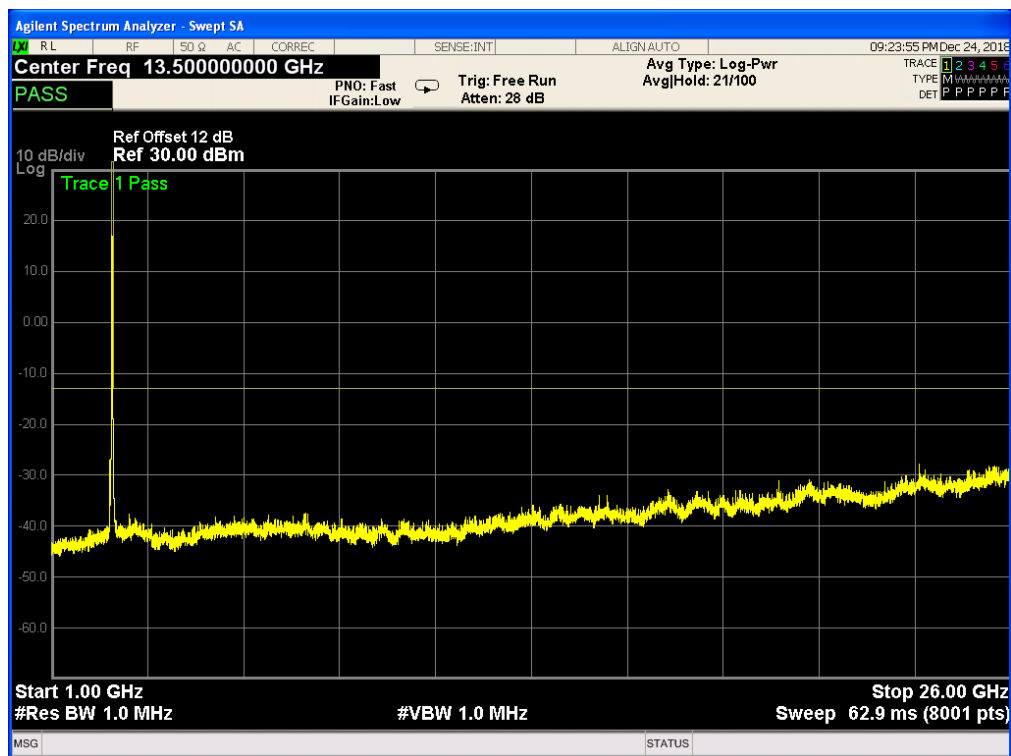
Band 38,UL Channel 37850,UL Frequency 2580.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



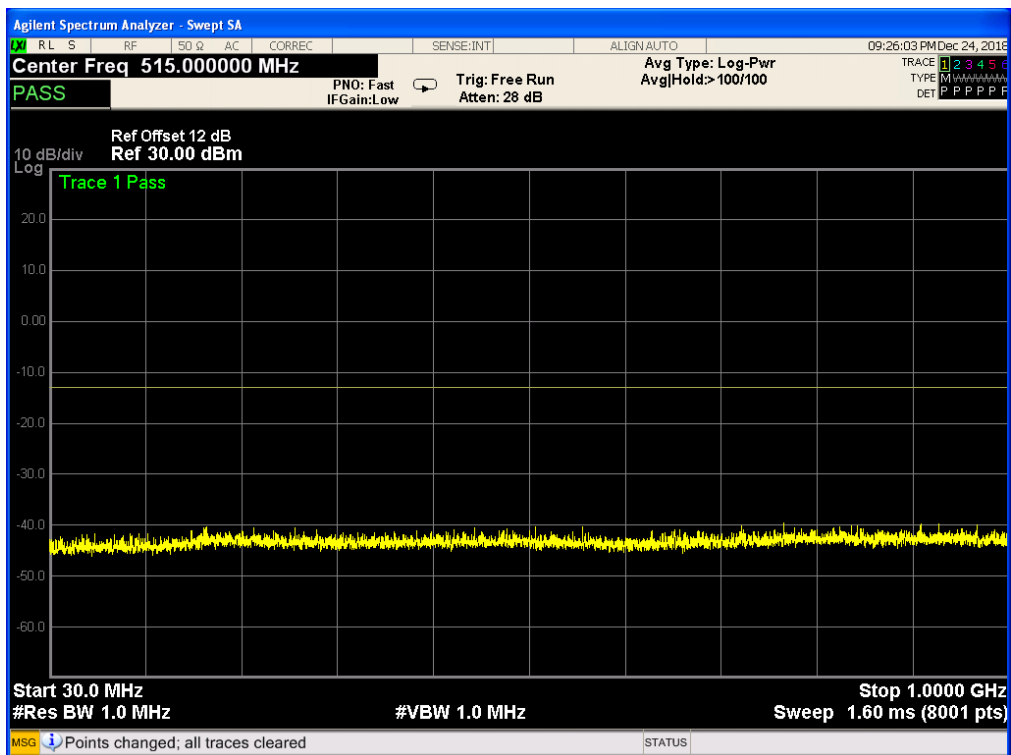
Band 38,UL Channel 37850,UL Frequency 2580.0,BW 20.0,NO. RB 100,RB POS. Low,16-QAM



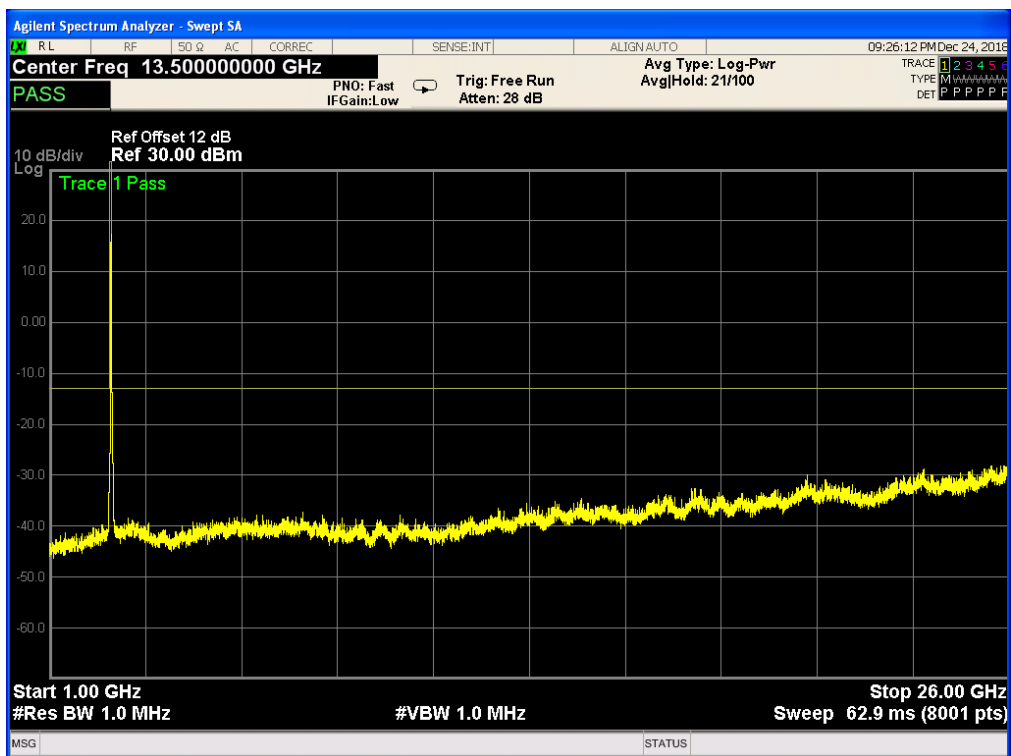
Band 38,UL Channel 37850,UL Frequency 2580.0,BW 20.0,NO. RB 100,RB POS. Low,16-QAM



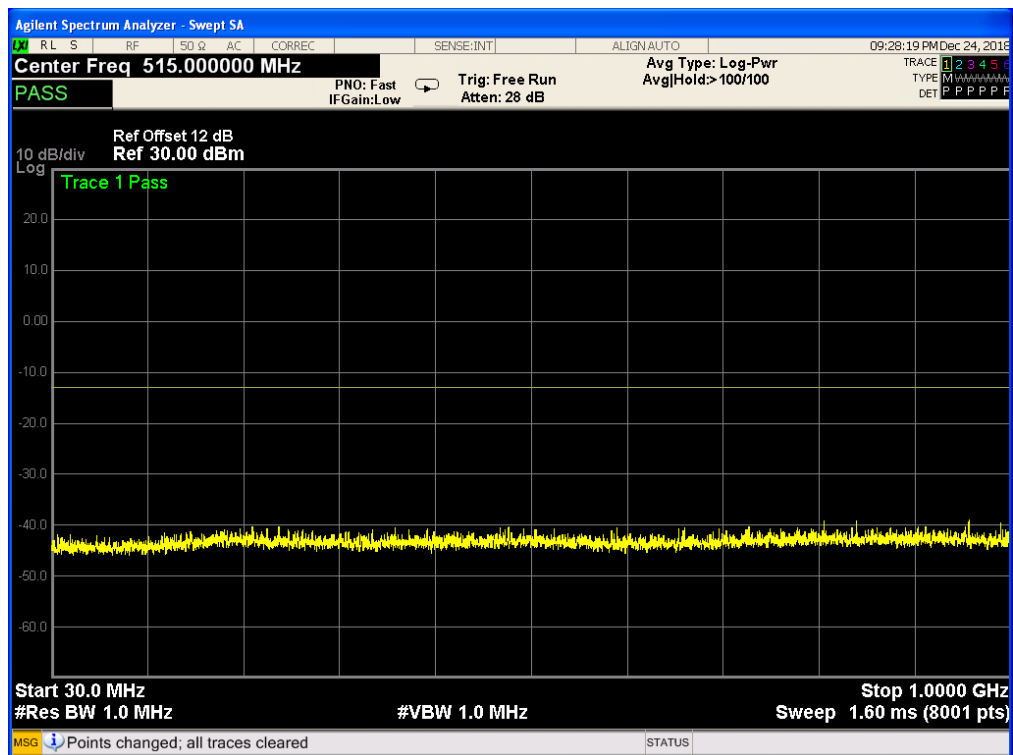
Band 38,UL Channel 38150,UL Frequency 2610.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



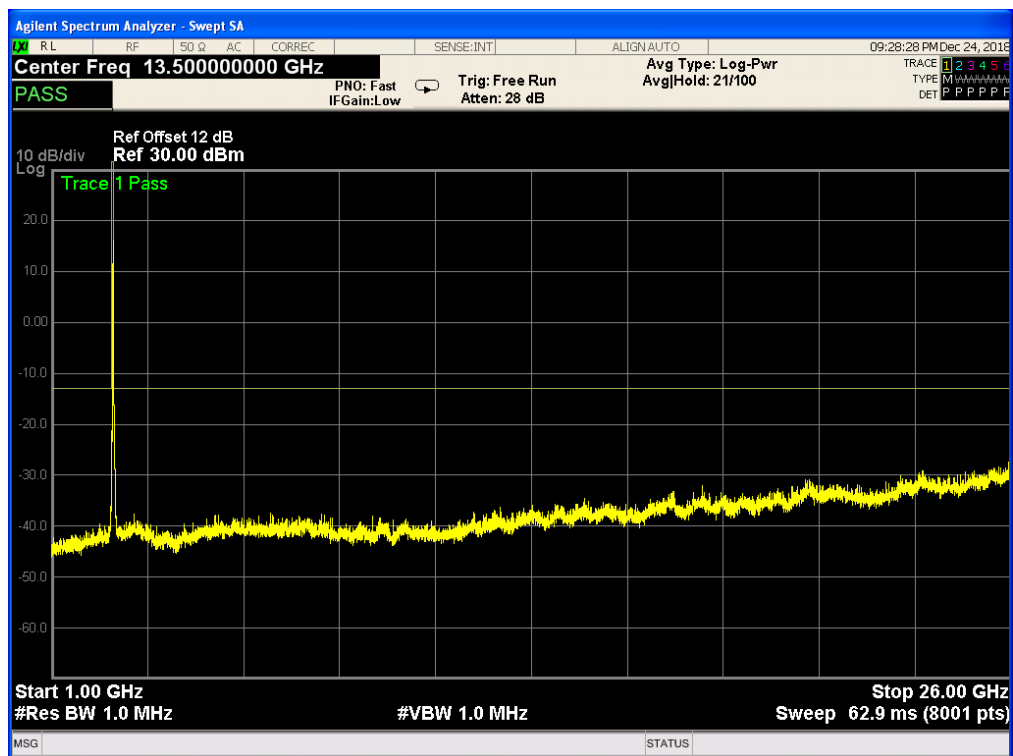
Band 38,UL Channel 38150,UL Frequency 2610.0,BW 20.0,NO. RB 100,RB POS. Low,QPSK



Band 38,UL Channel 38150,UL Frequency 2610.0,BW 20.0,NO. RB 100,RB POS. Low,16-QAM

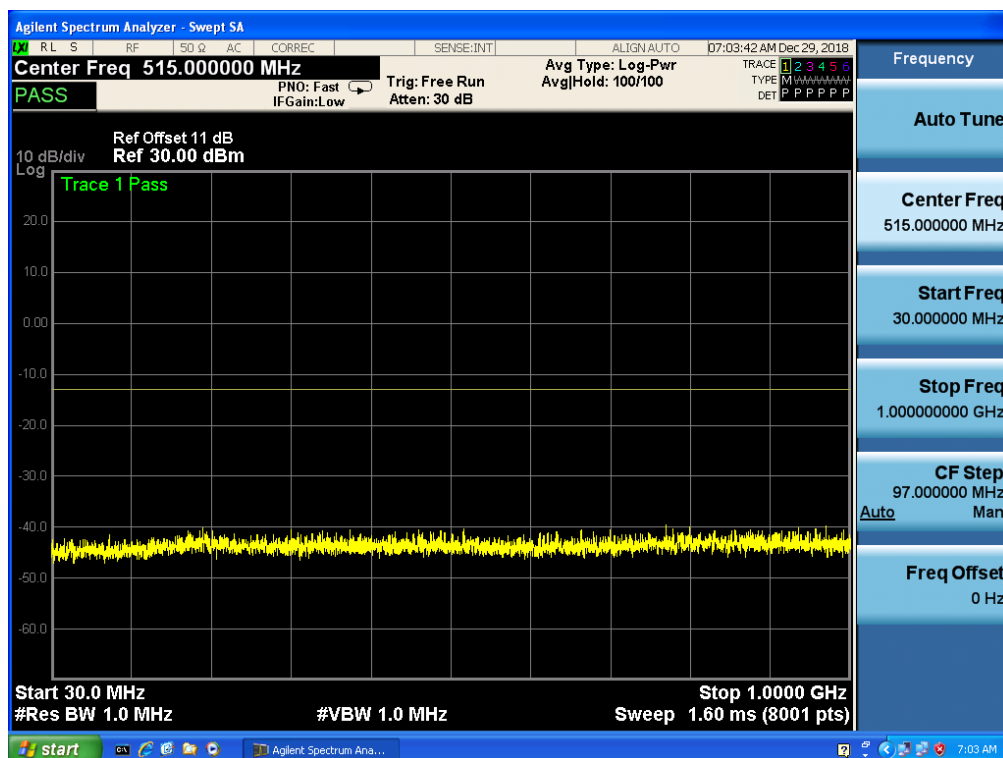


Band 38,UL Channel 38150,UL Frequency 2610.0,BW 20.0,NO. RB 100,RB POS. Low,16-QAM

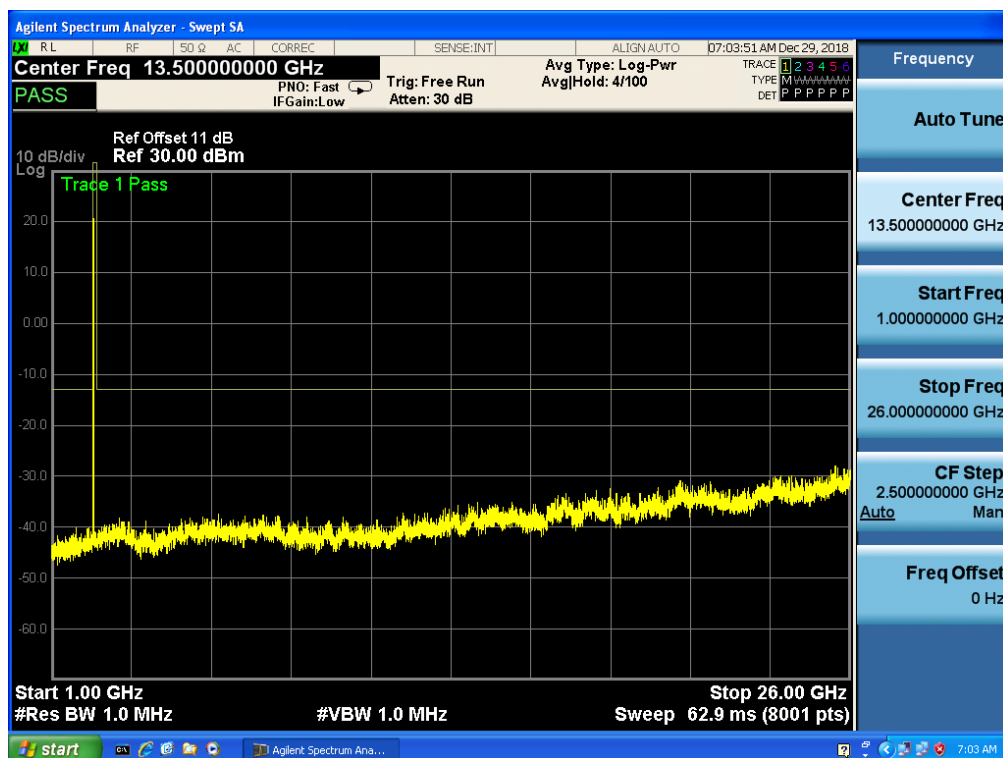


7.5 LTE BAND 40(2305-2320MHZ)

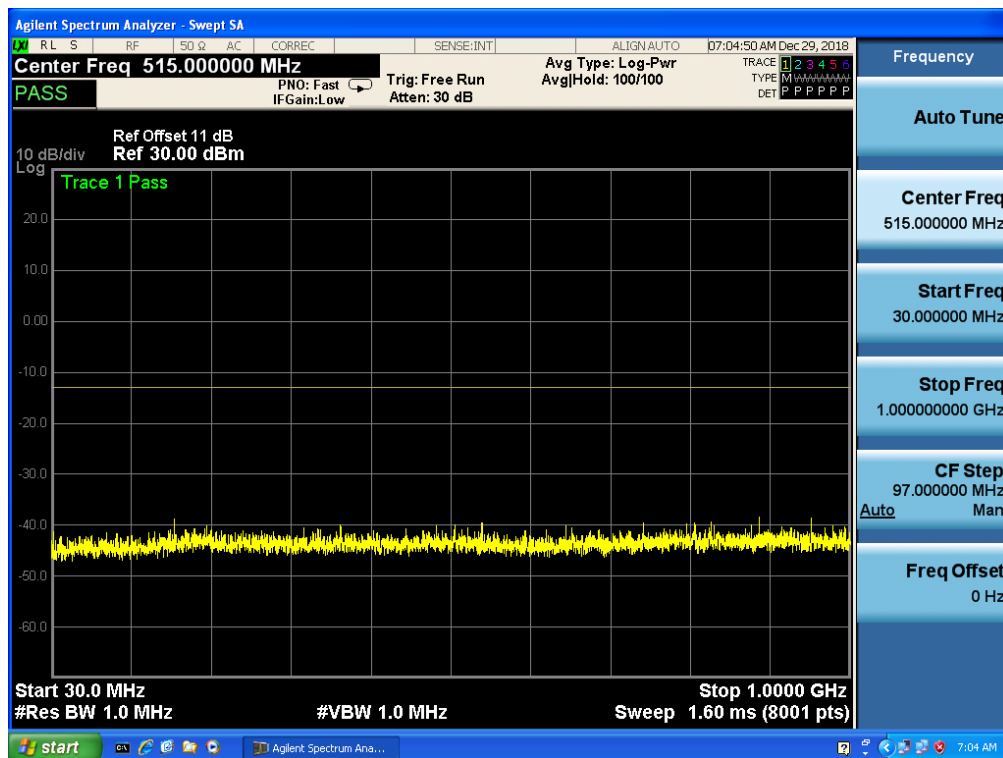
Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



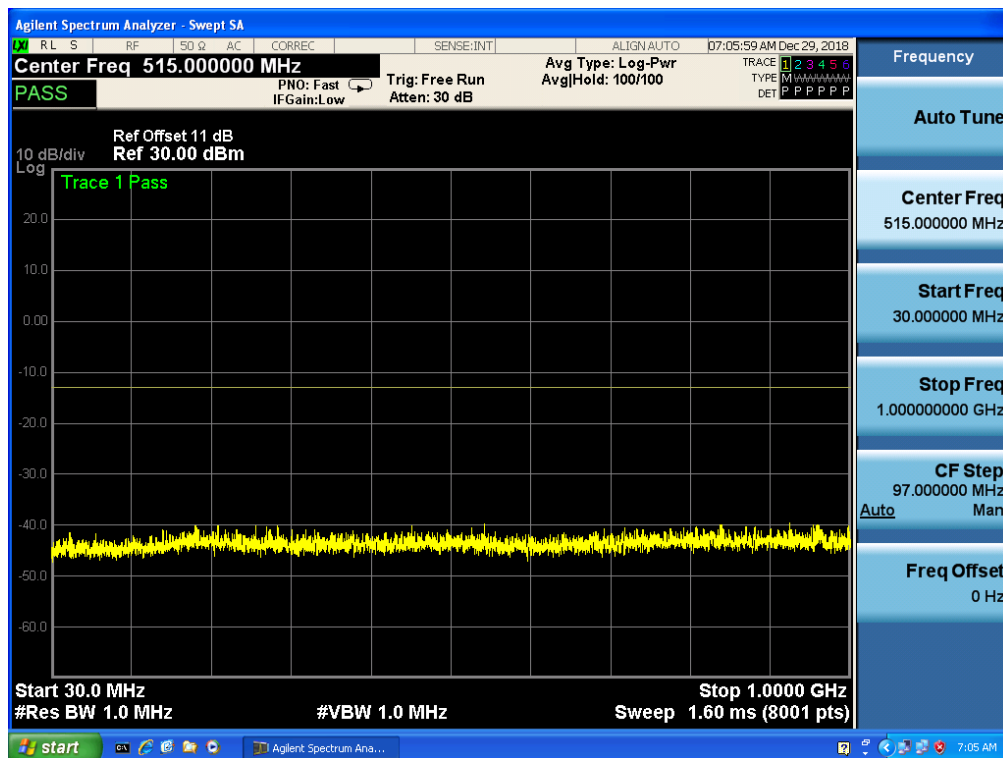
Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



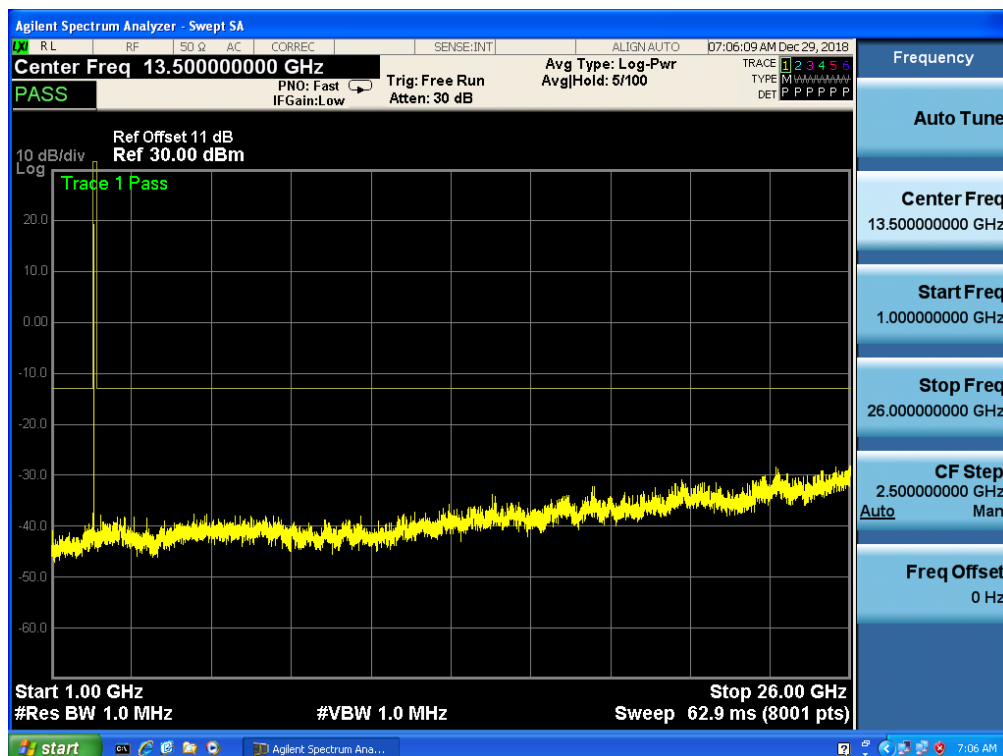
Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



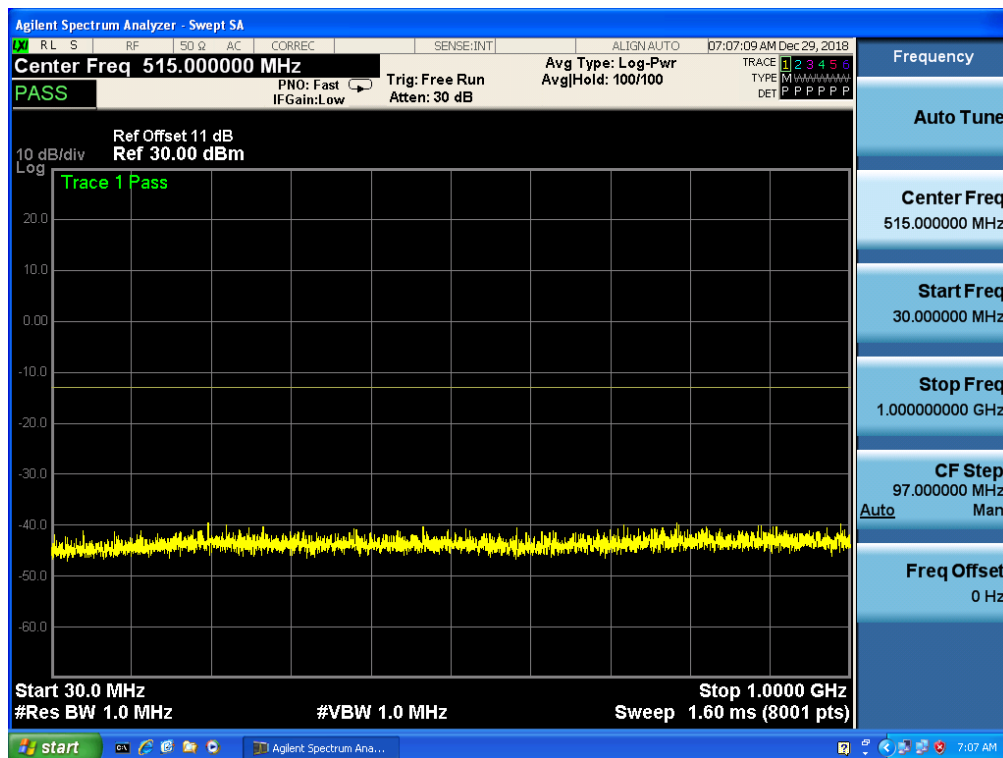
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



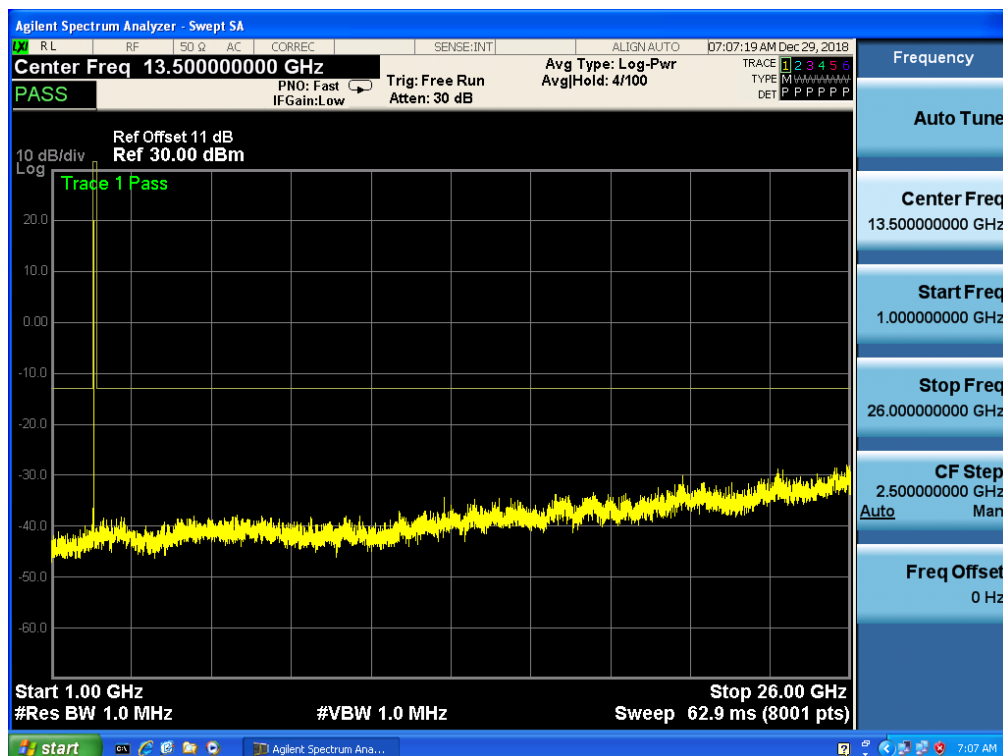
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



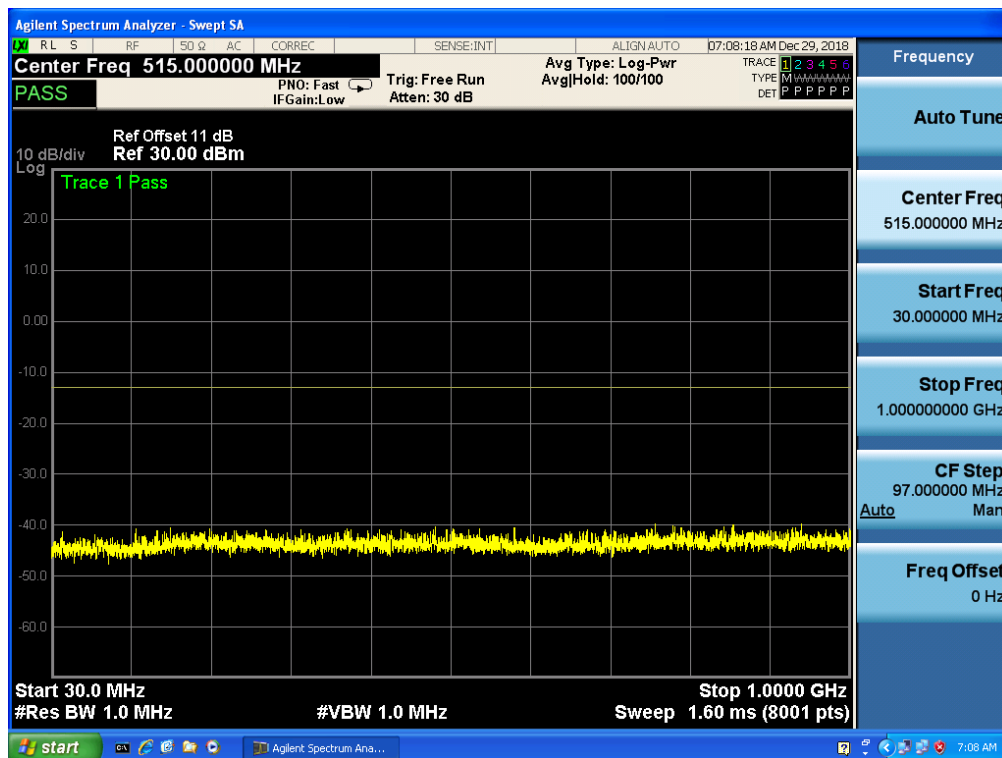
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



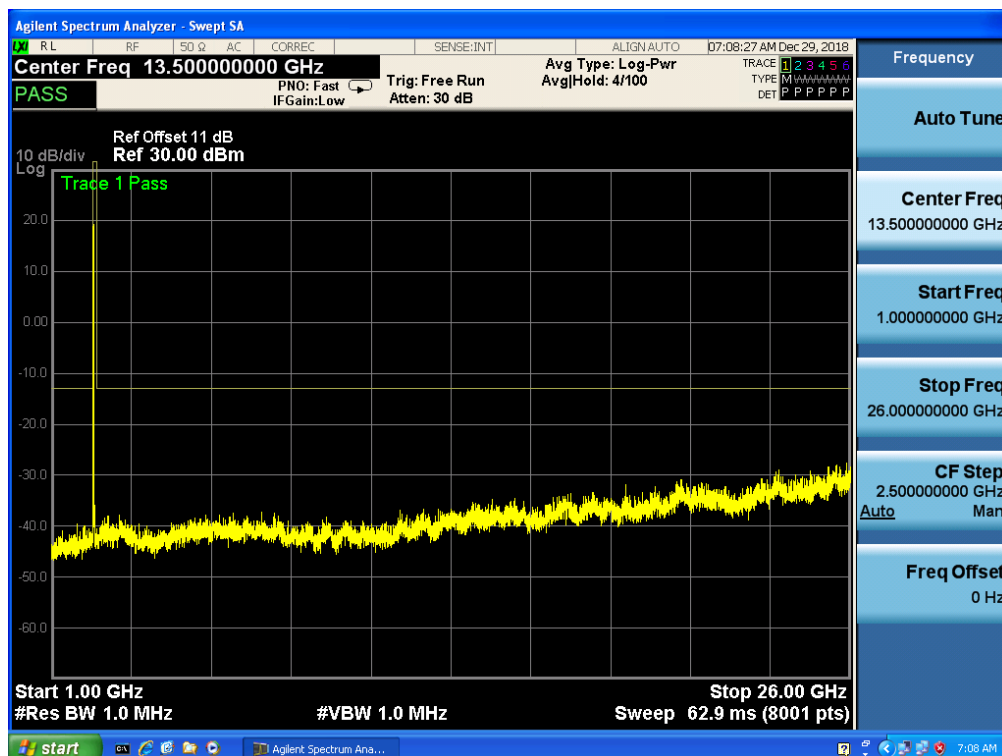
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



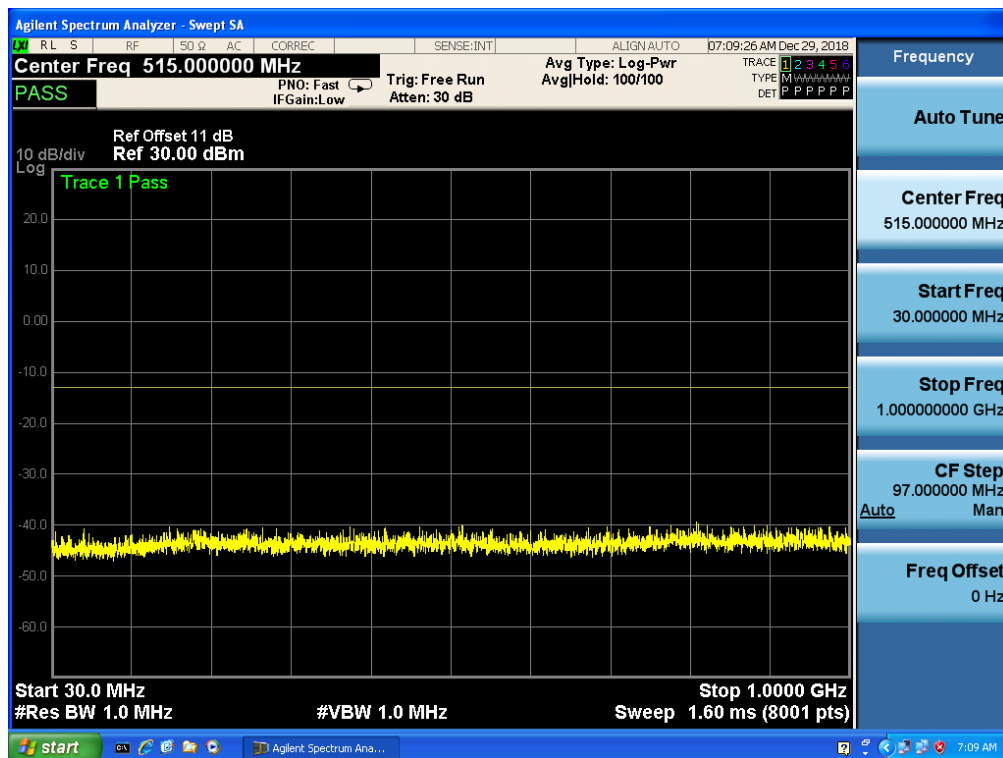
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



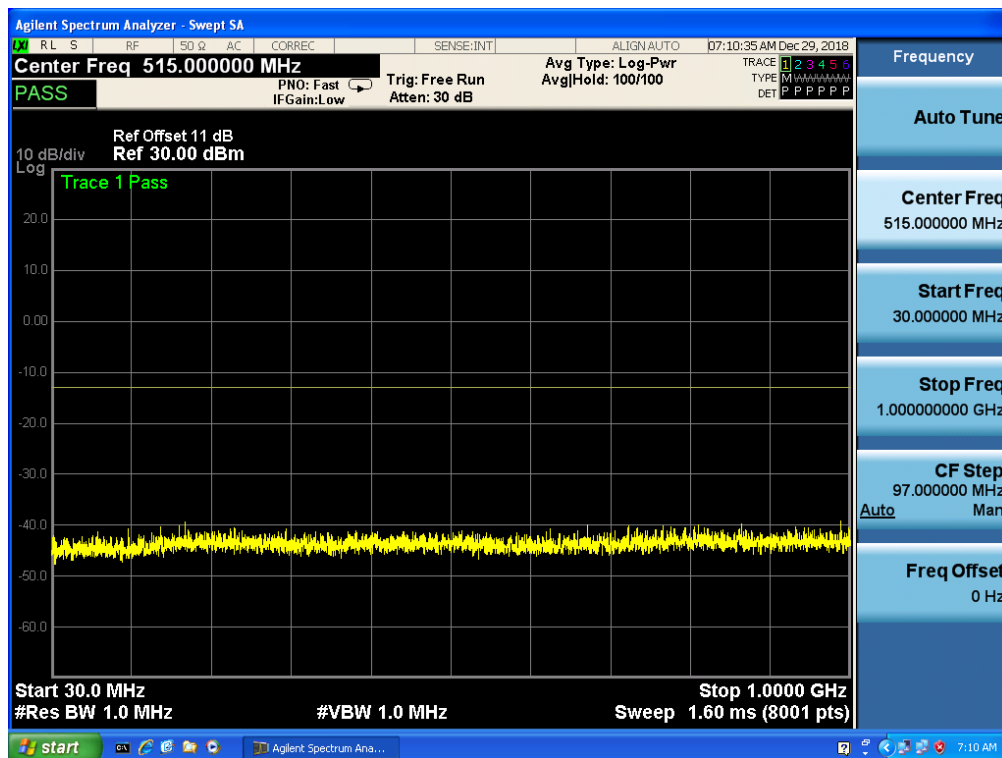
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



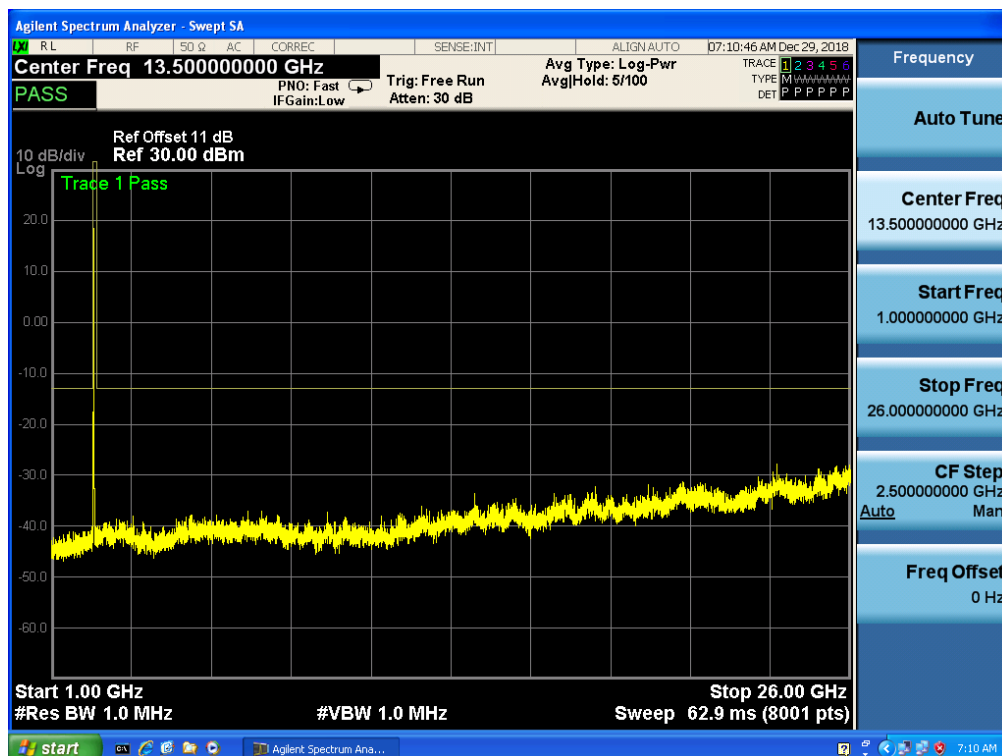
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



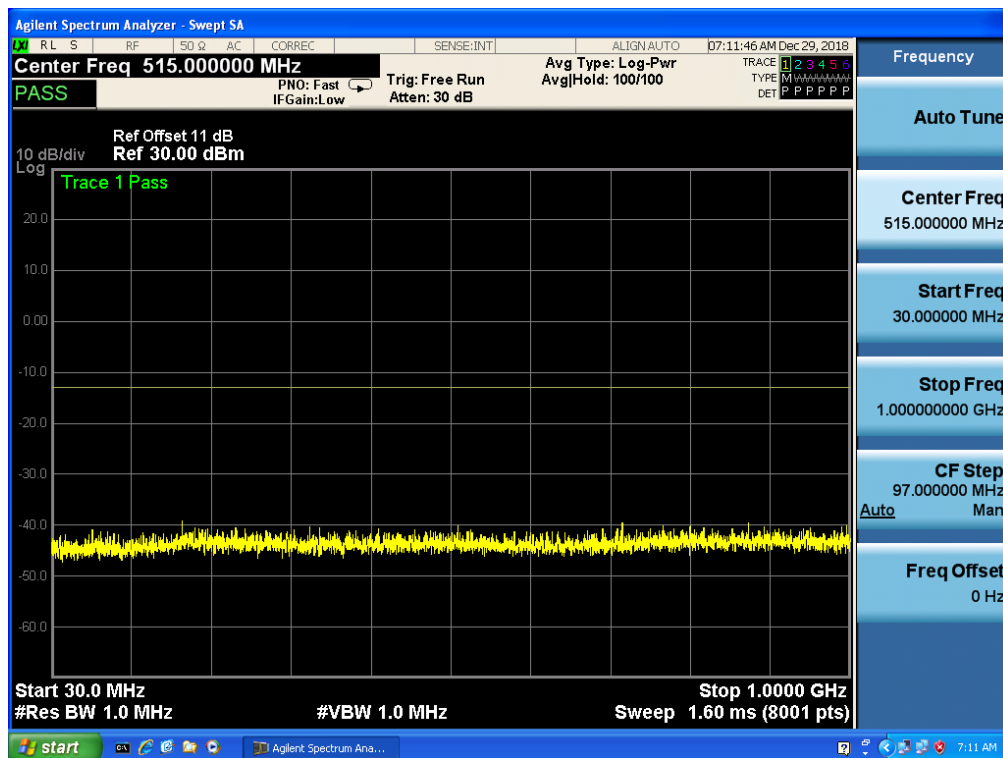
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



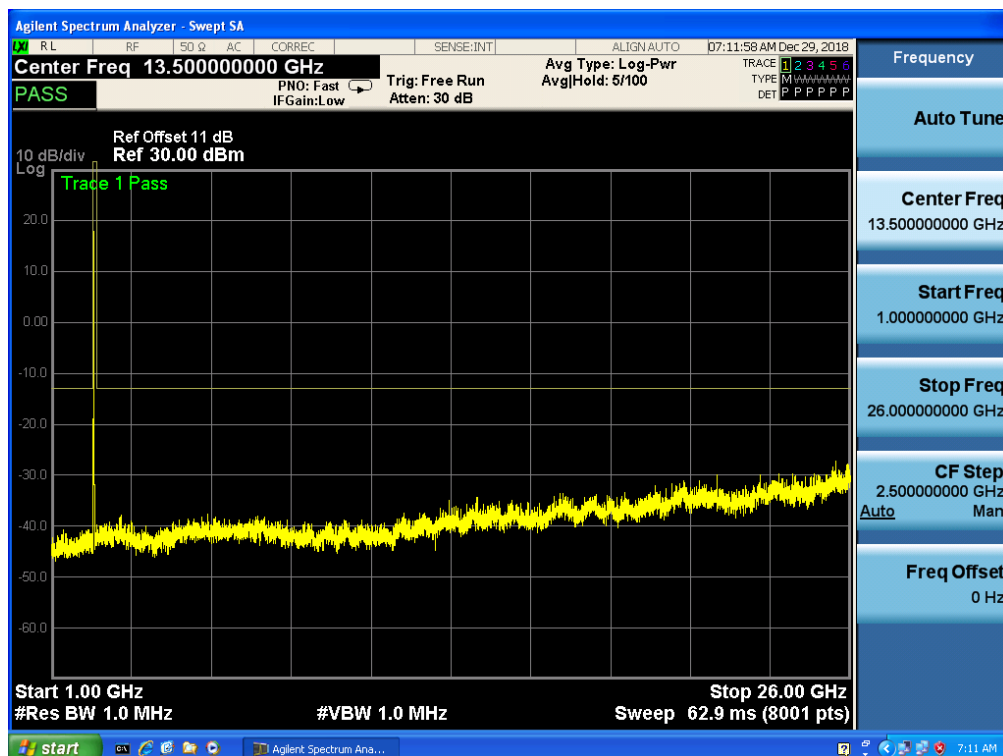
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



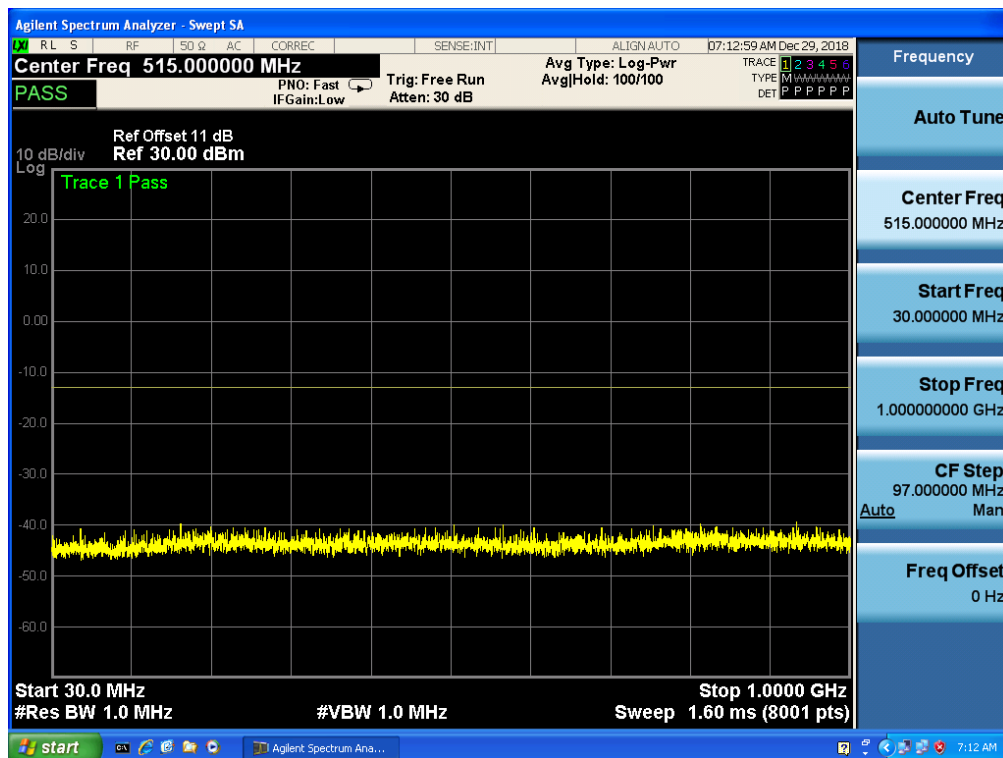
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



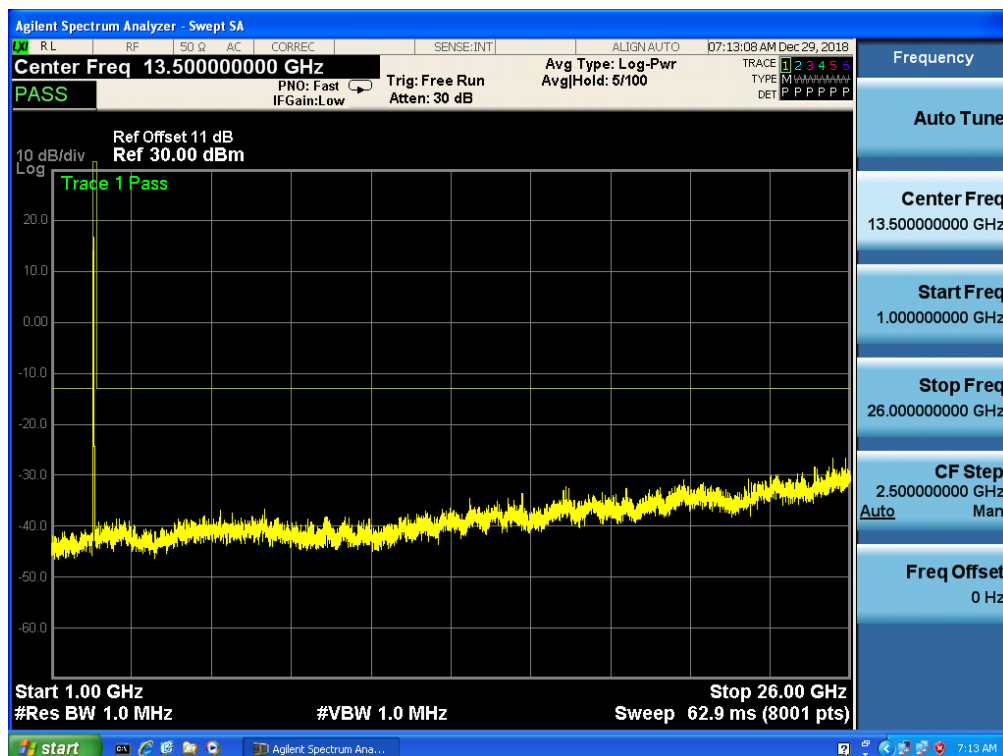
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



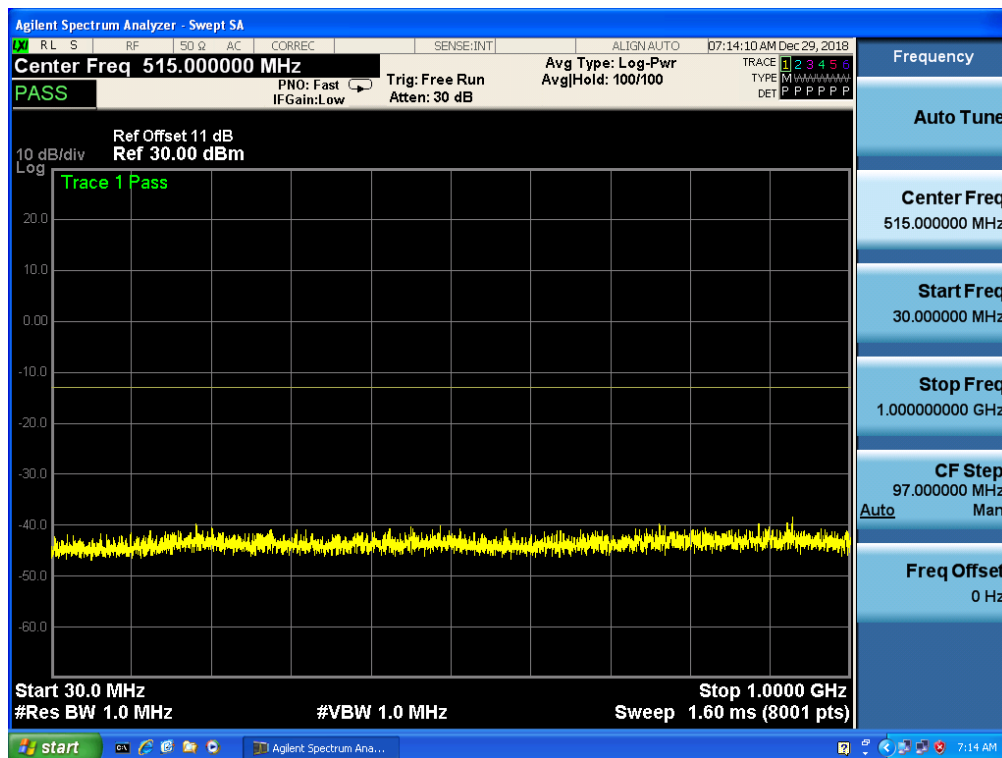
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



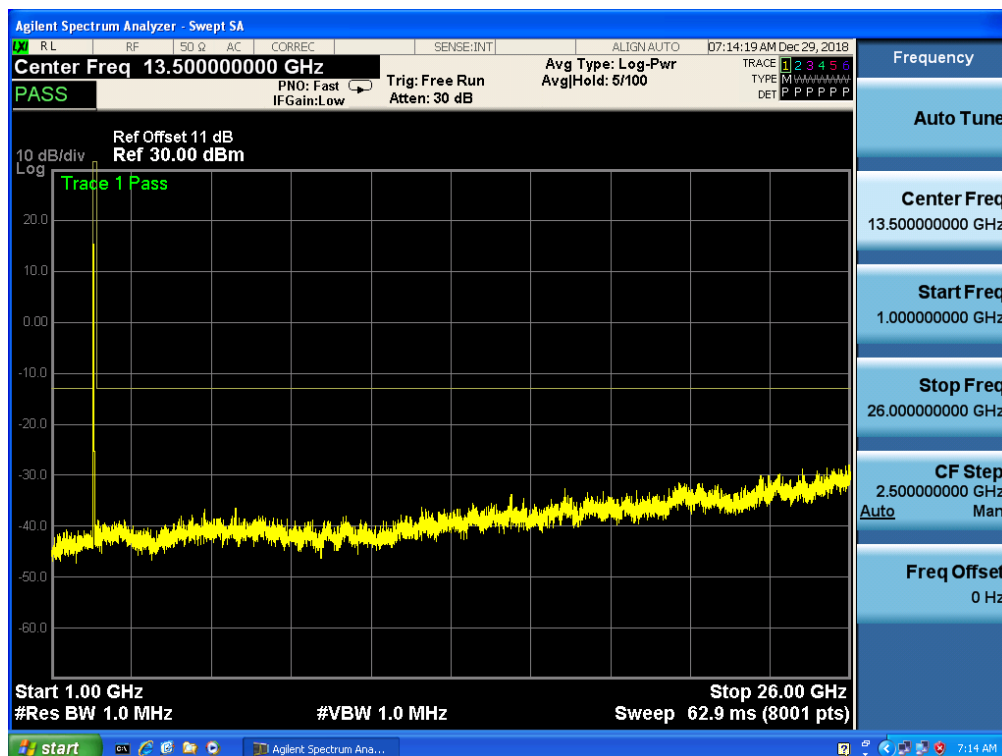
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM

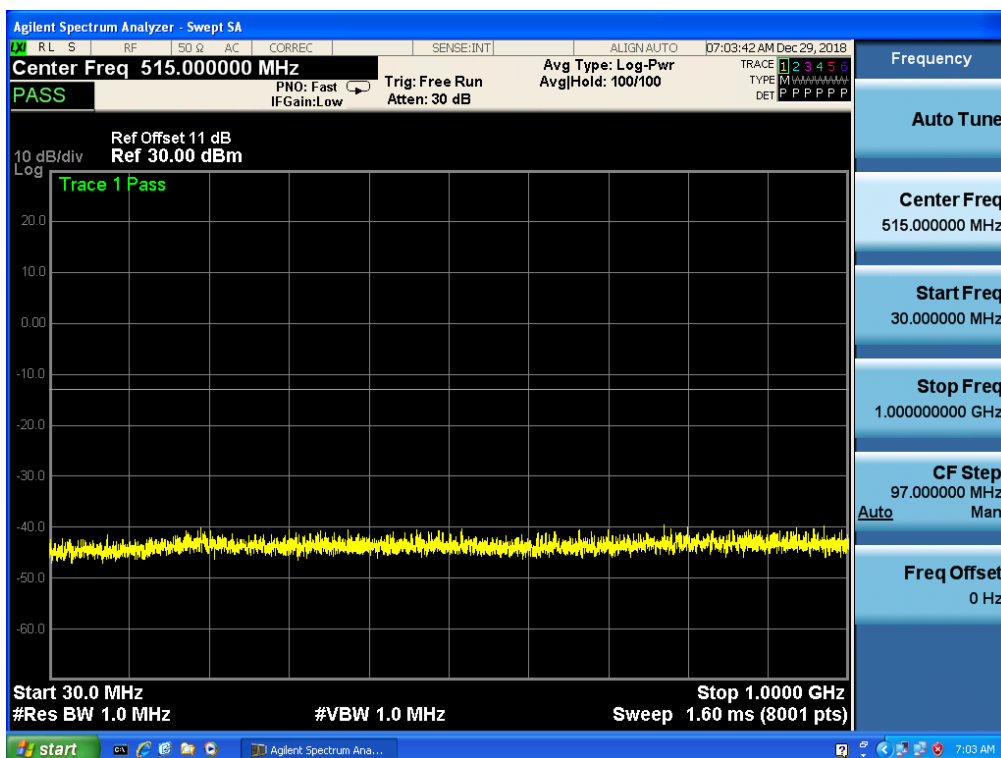


Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM

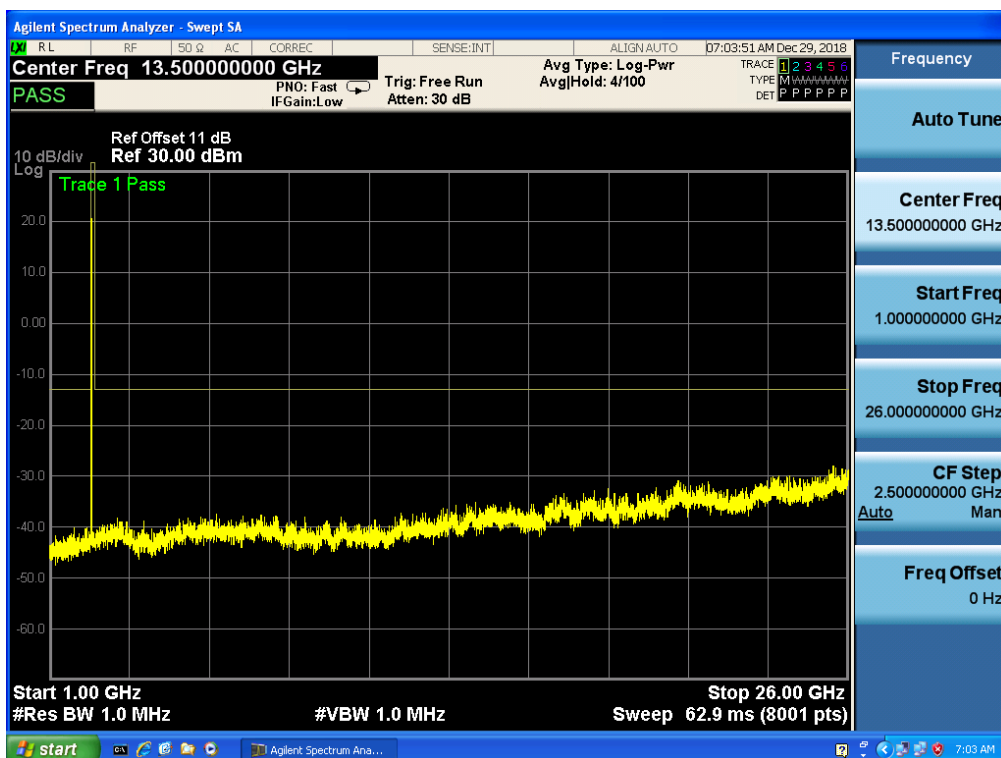


7.6 LTE BAND 40(2345-2360MHZ)

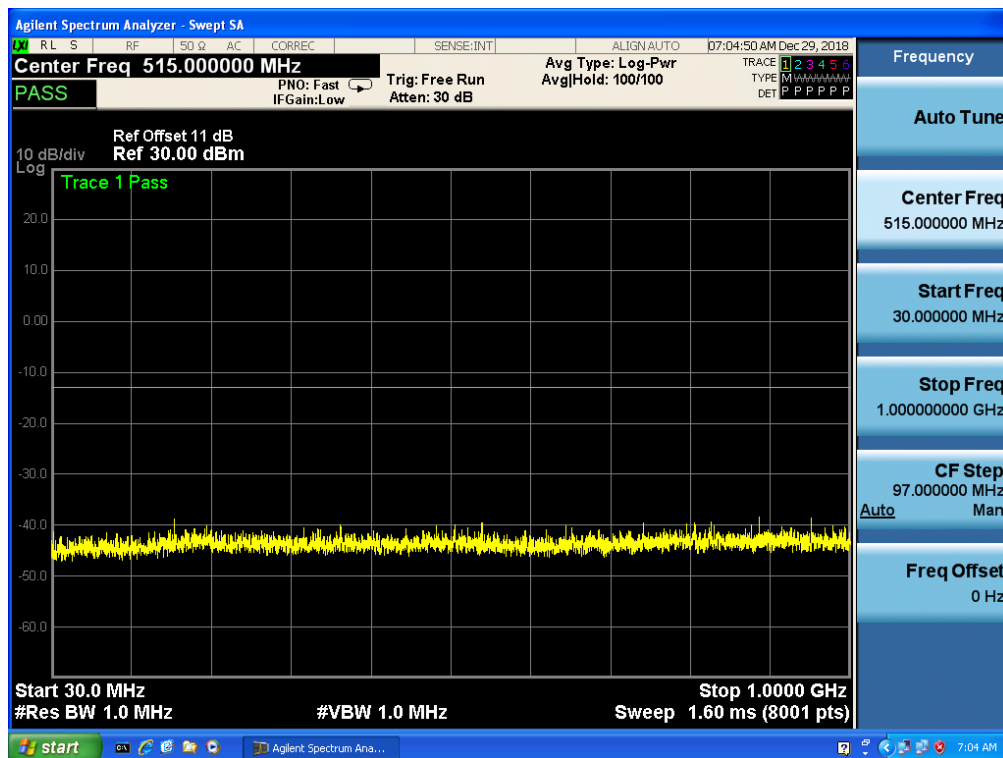
Band 40, UL Channel 38725, UL Frequency 2307.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



Band 40, UL Channel 38725, UL Frequency 2307.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



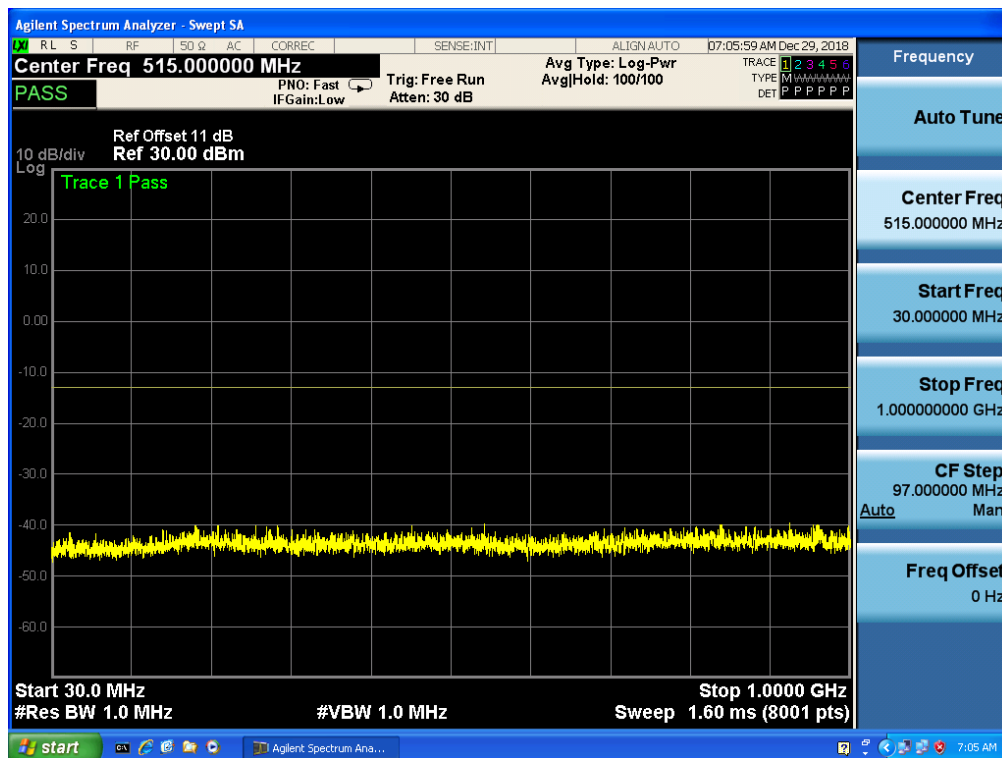
Band 40, UL Channel 38725, UL Frequency 2307.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



Band 40, UL Channel 38725, UL Frequency 2307.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



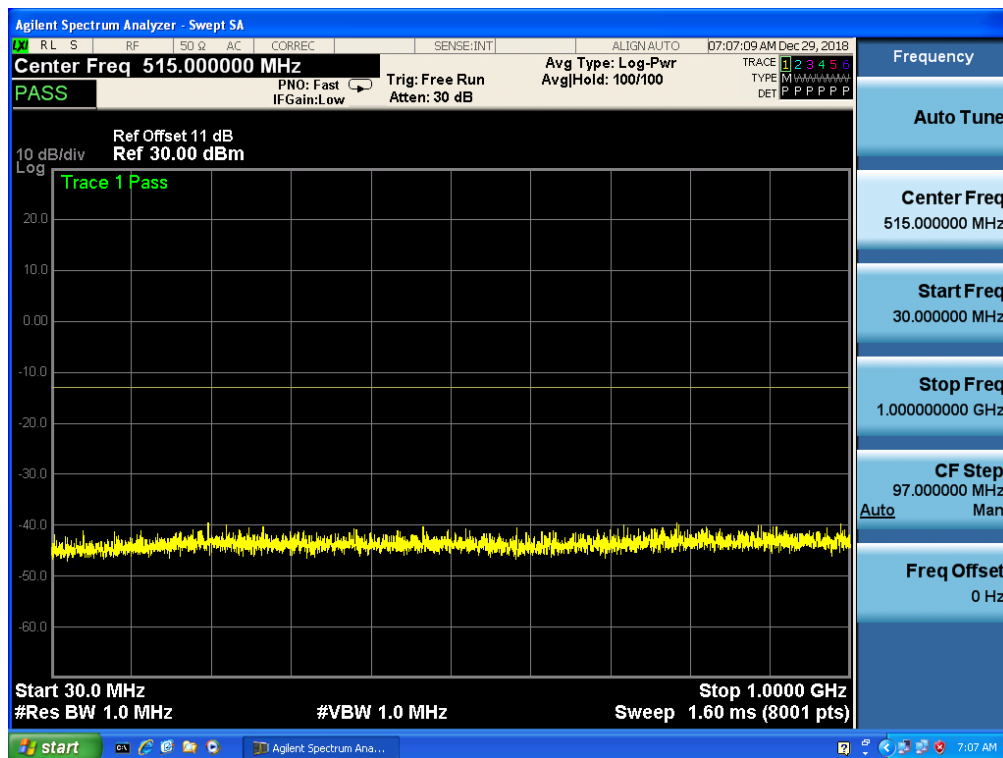
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



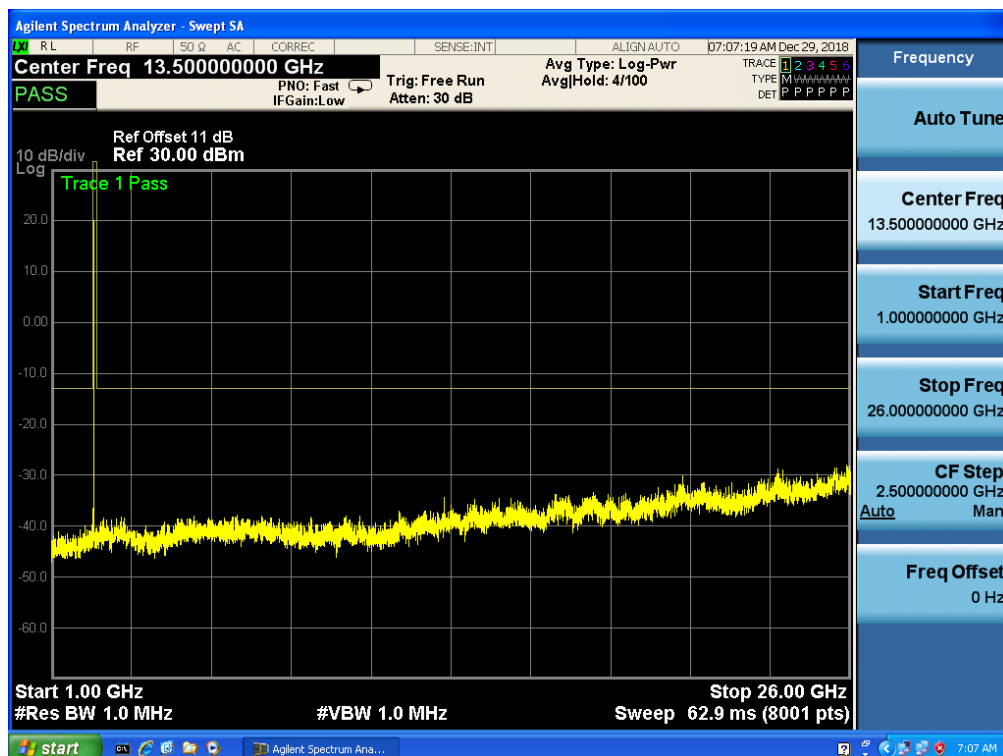
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



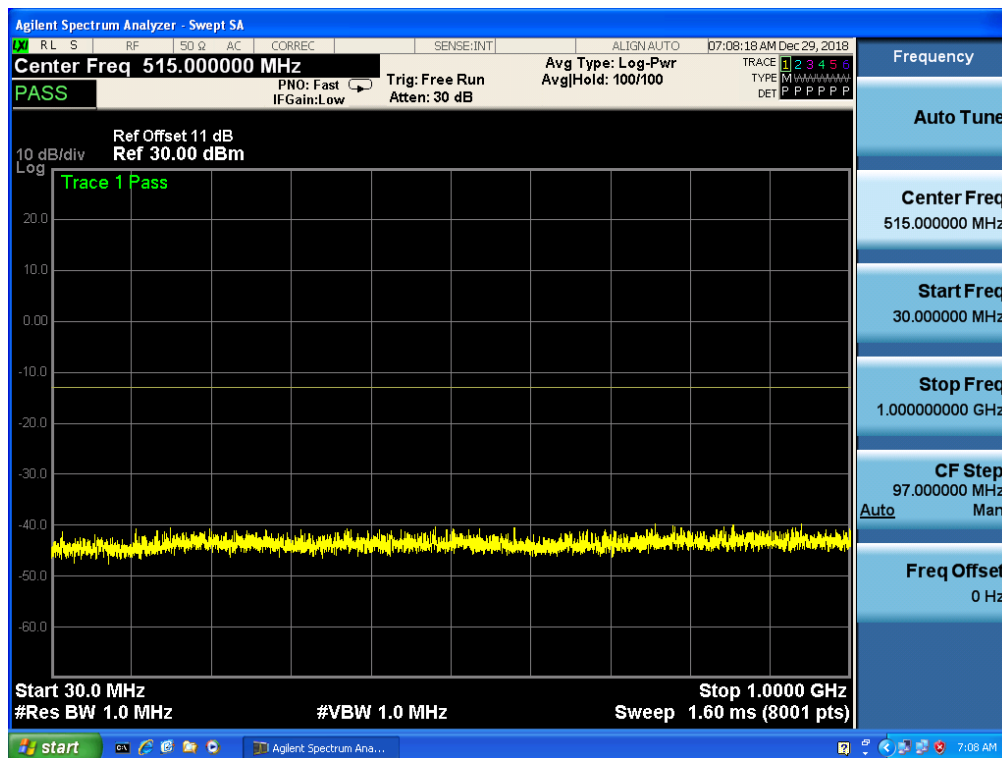
Band 40,UL Channel 38825,UL Frequency 2317.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



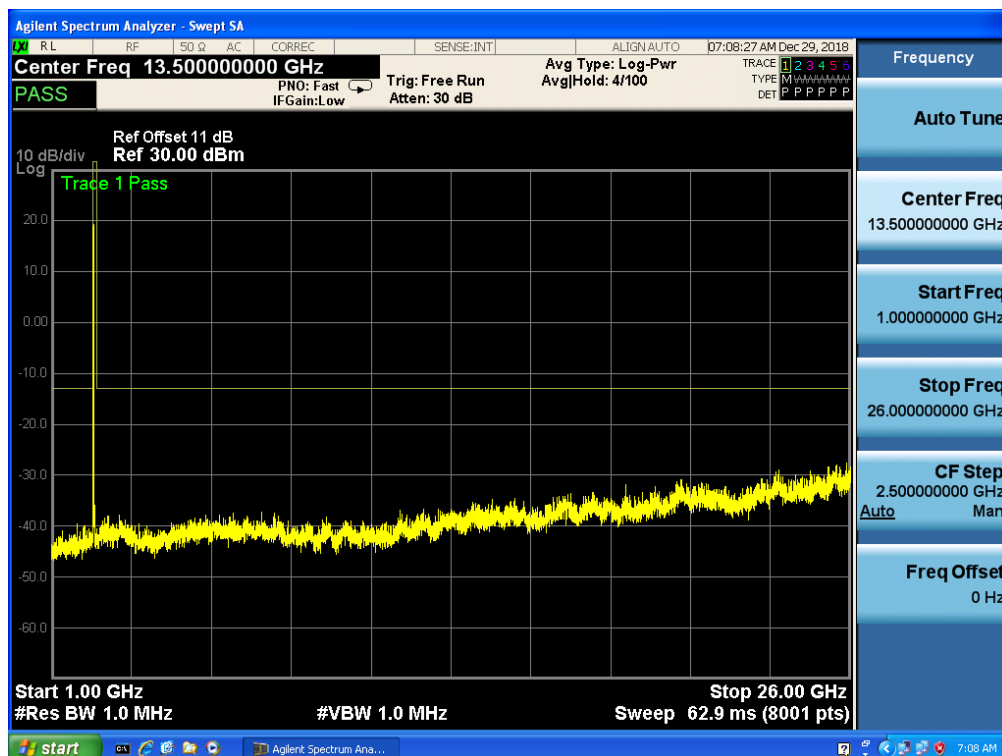
Band 40,UL Channel 38825,UL Frequency 2317.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



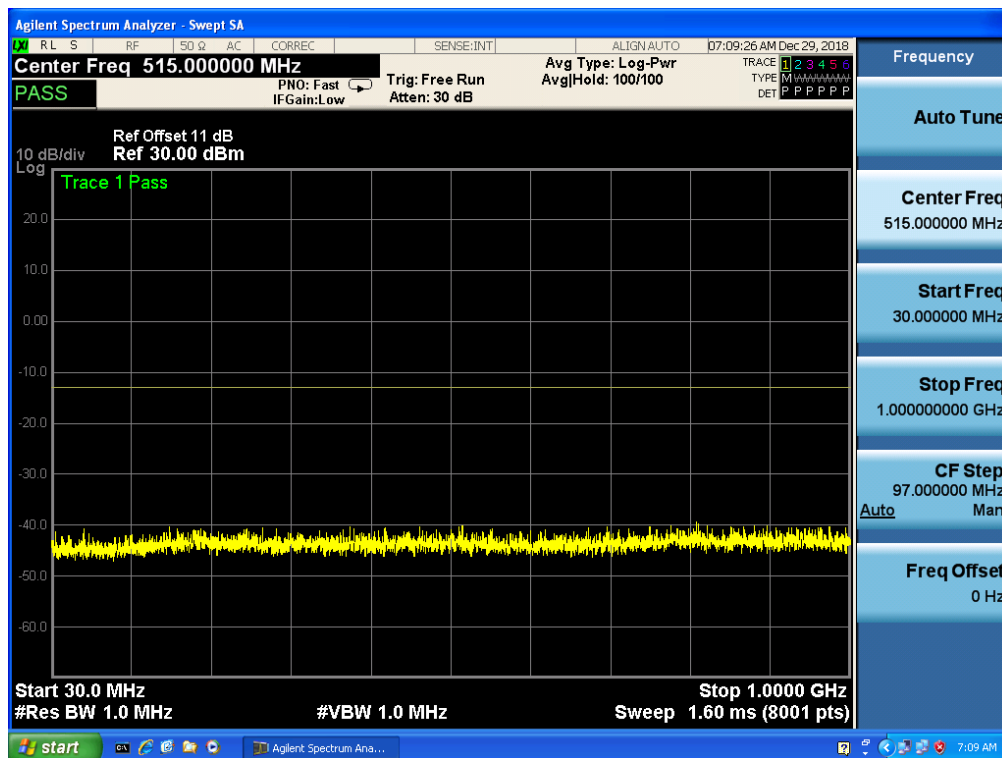
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



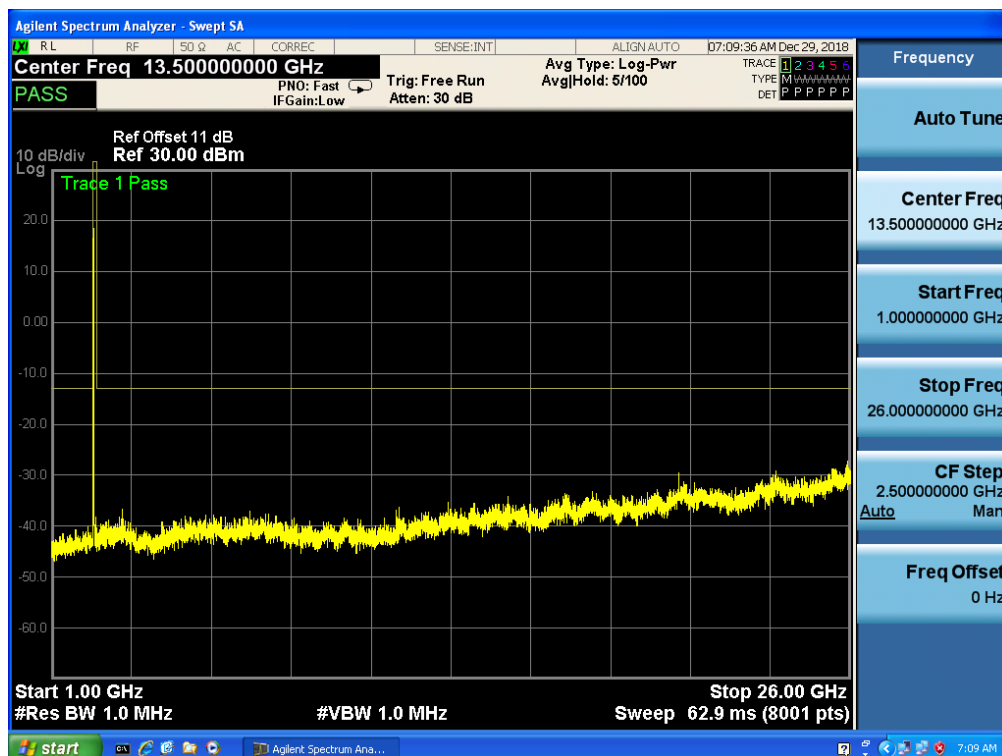
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



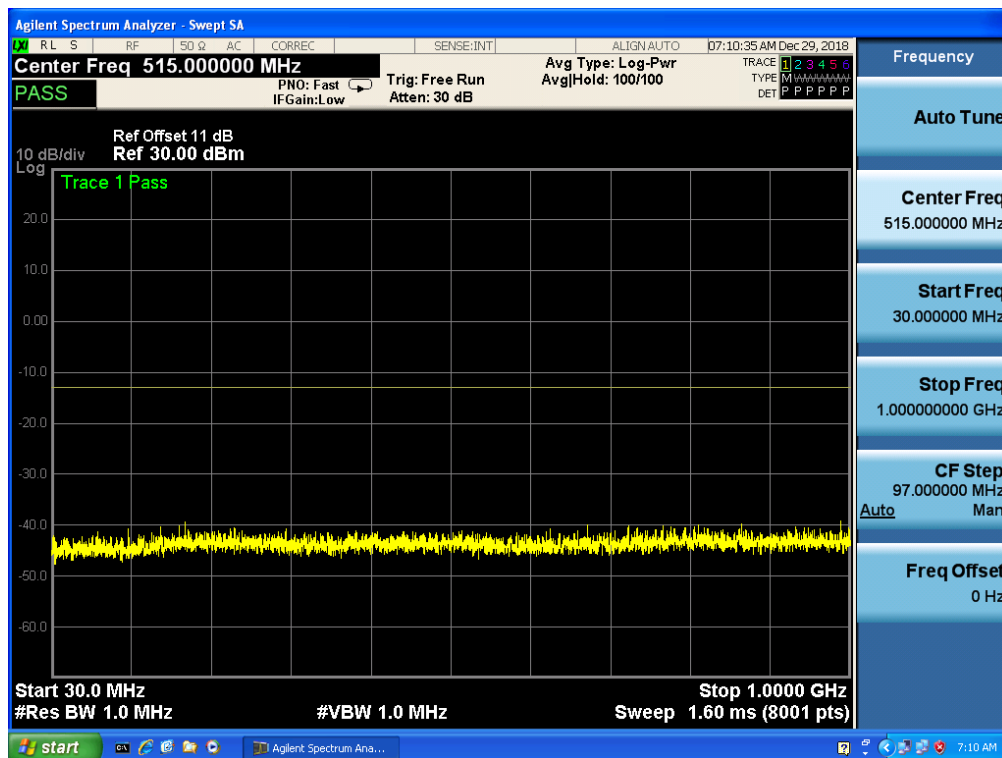
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



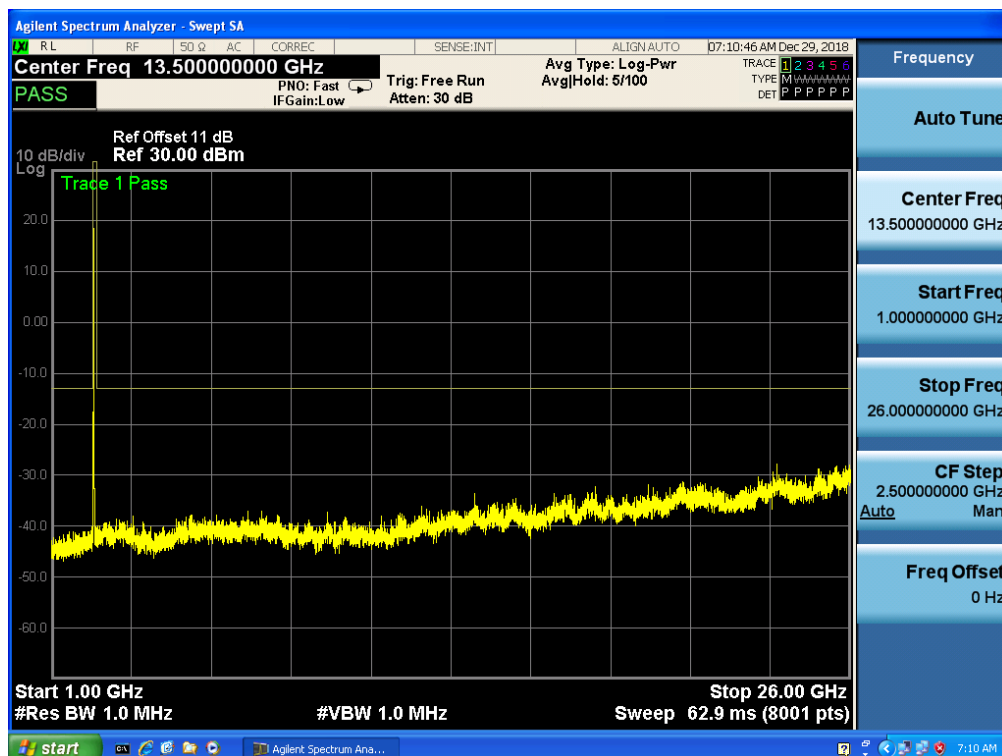
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



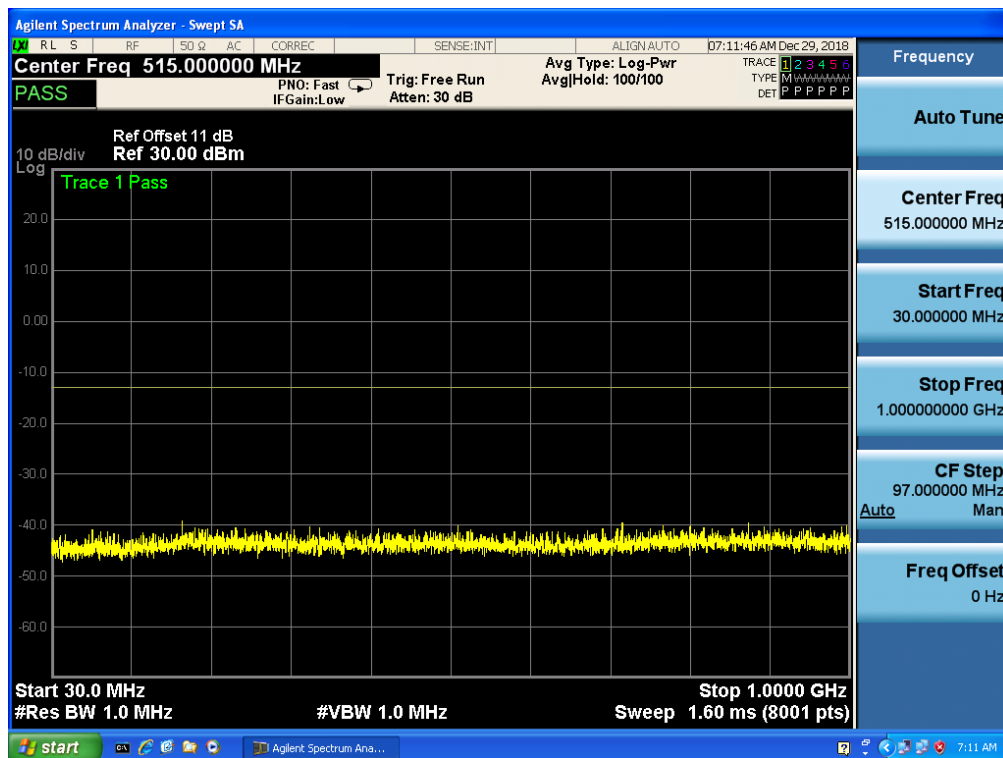
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



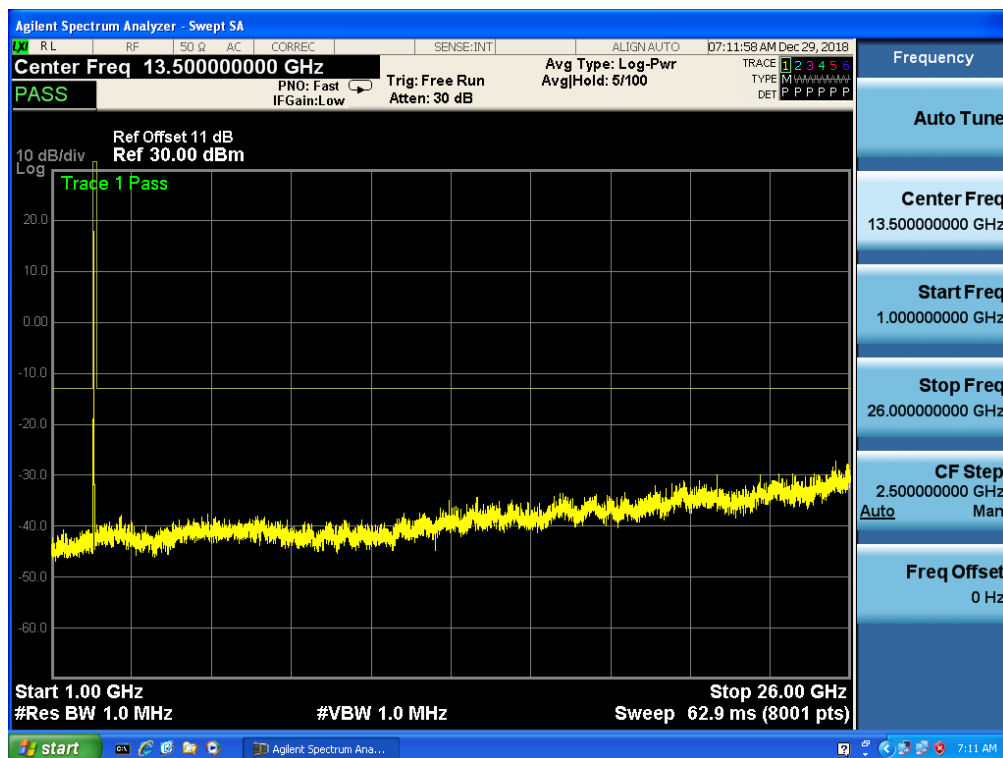
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



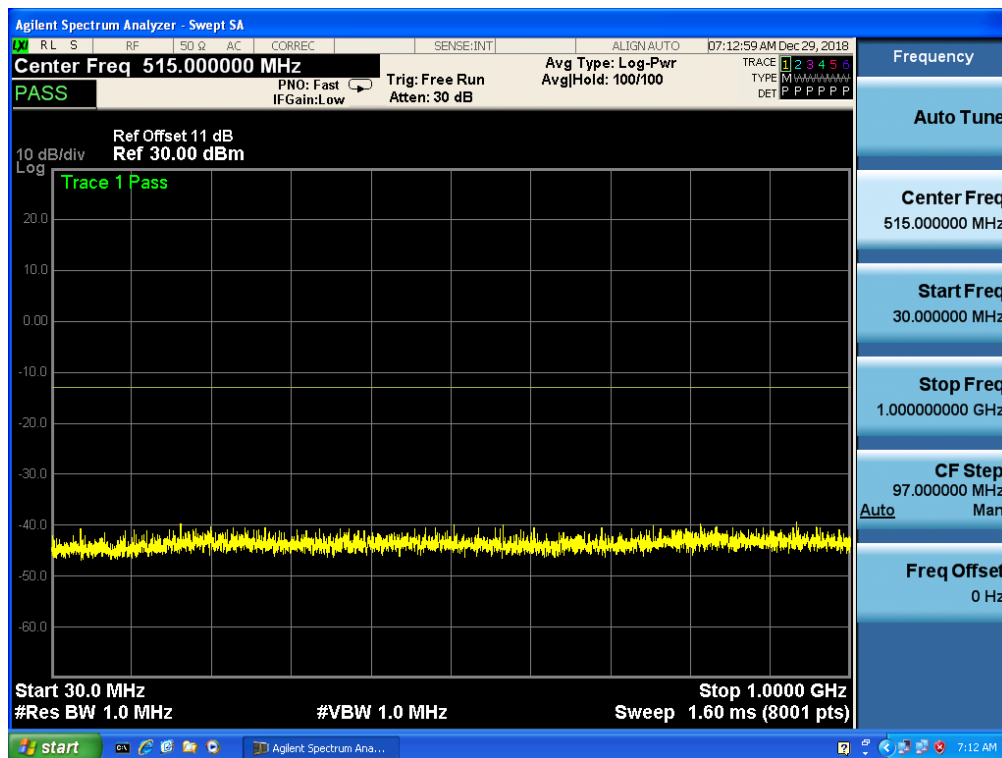
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



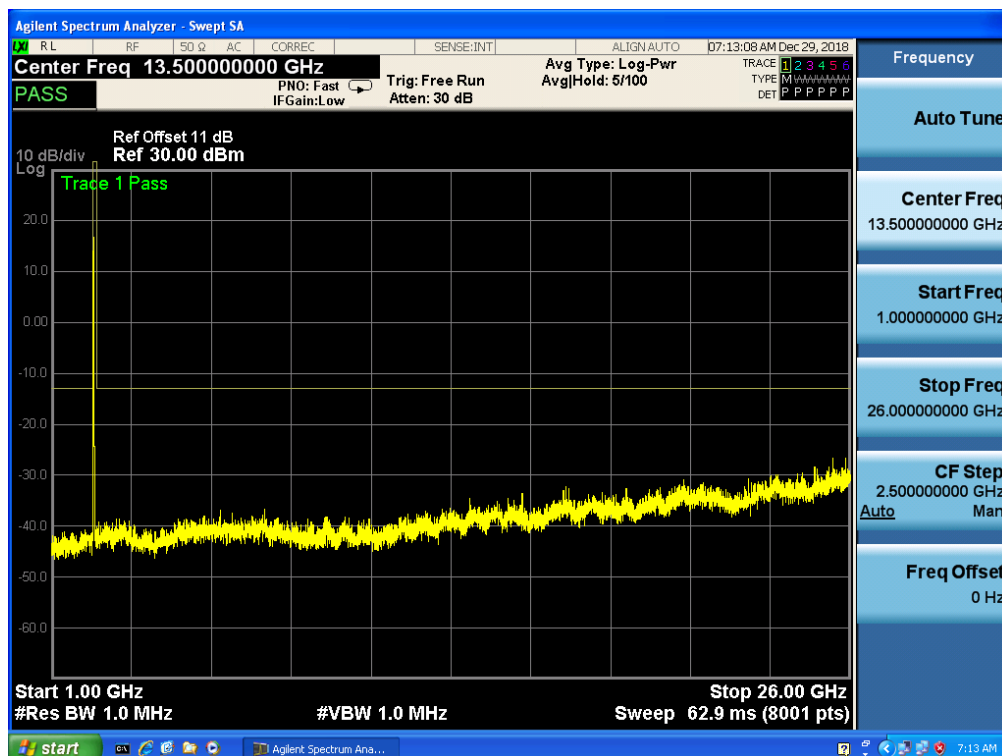
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



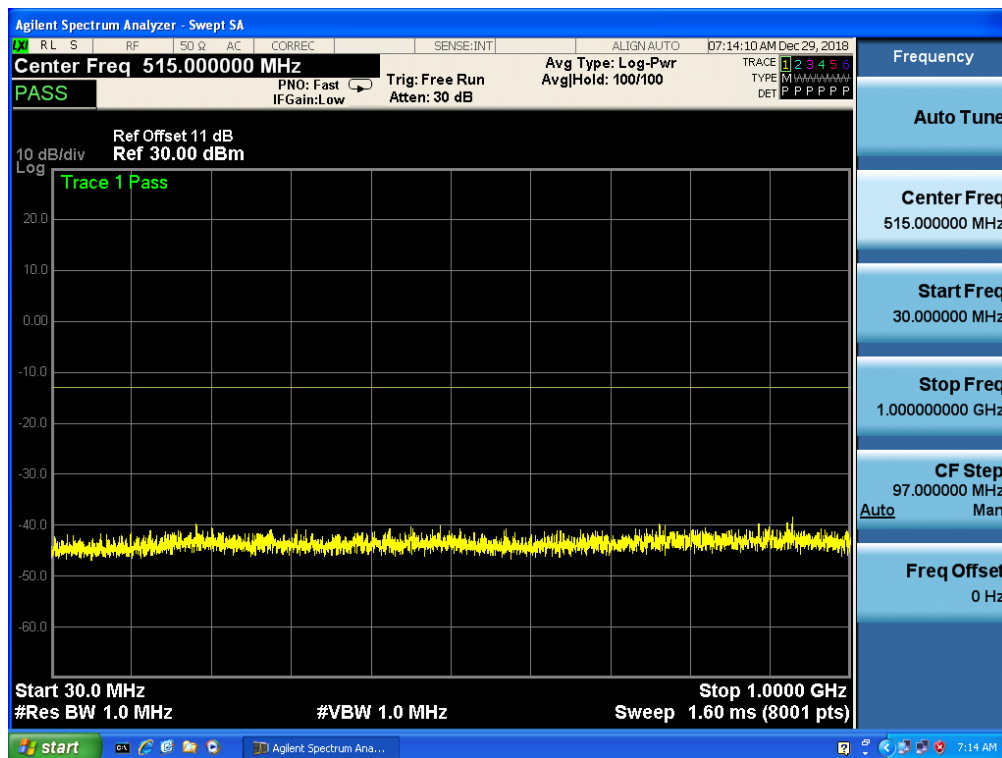
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



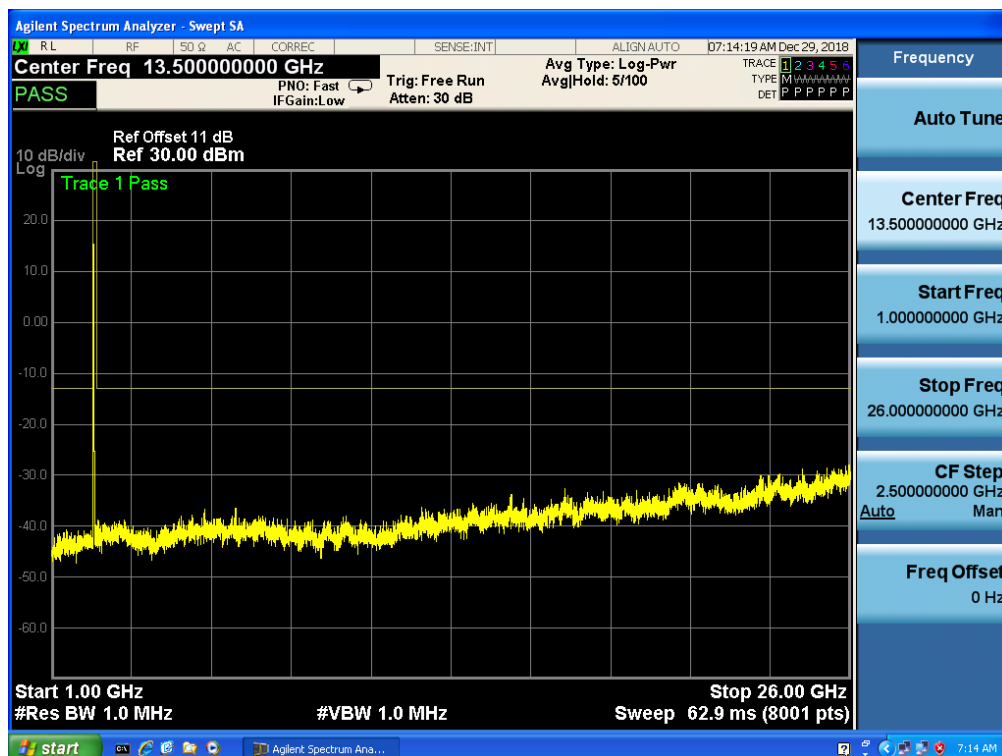
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM

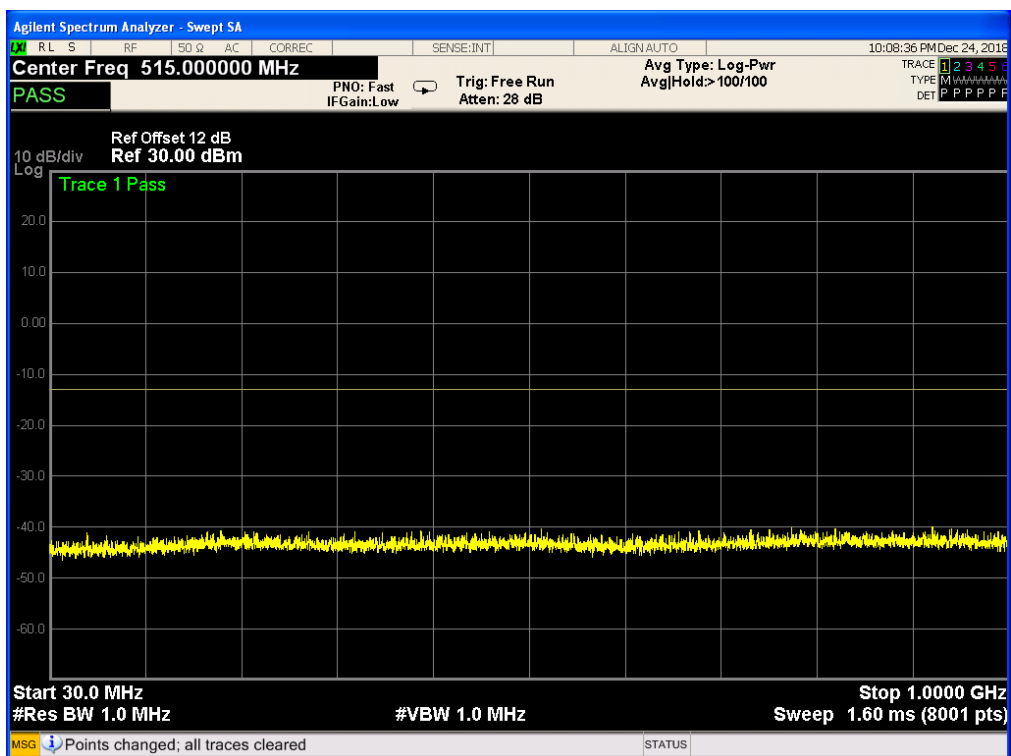


Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM

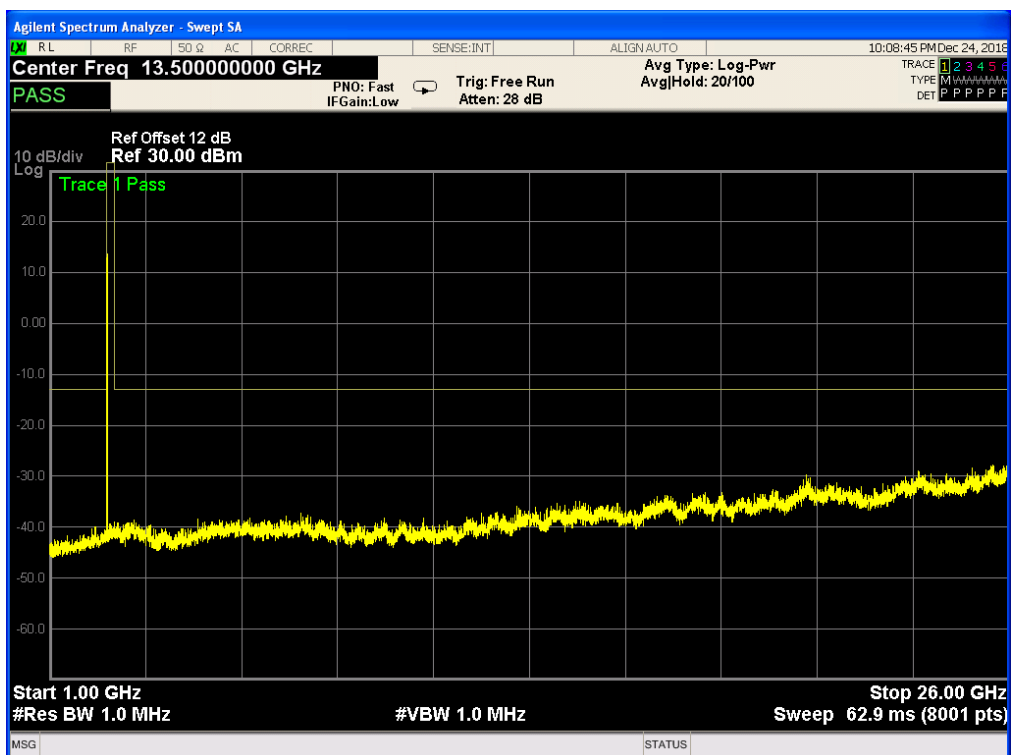


7.7 LTE BAND 41

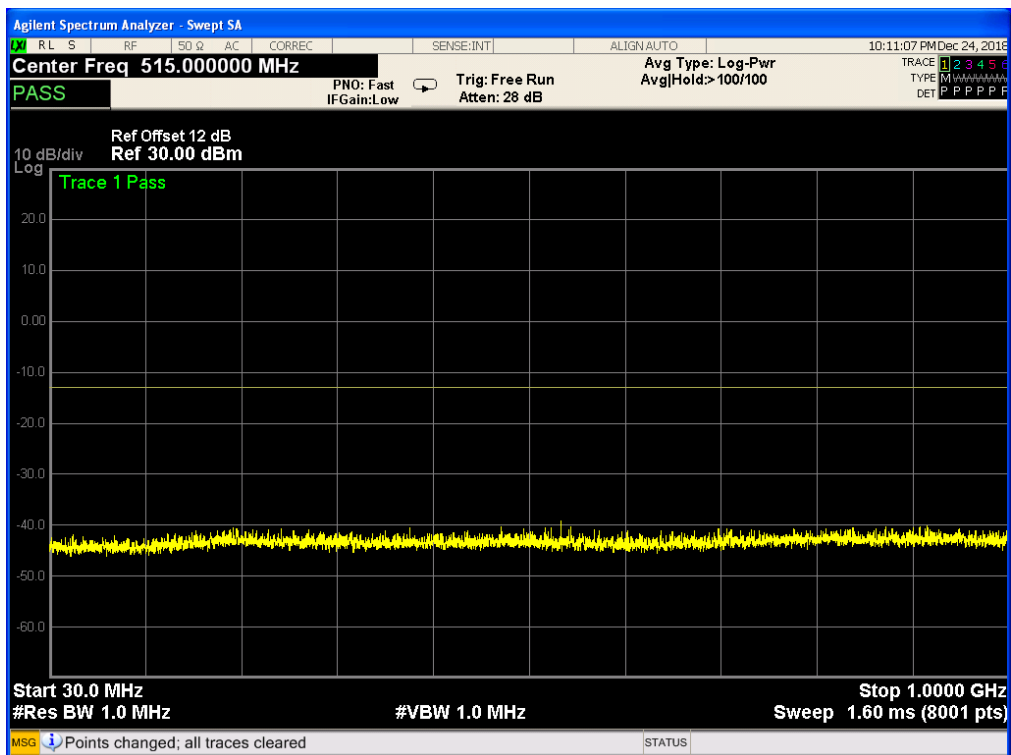
Band 41, UL Channel 39675, UL Frequency 2498.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



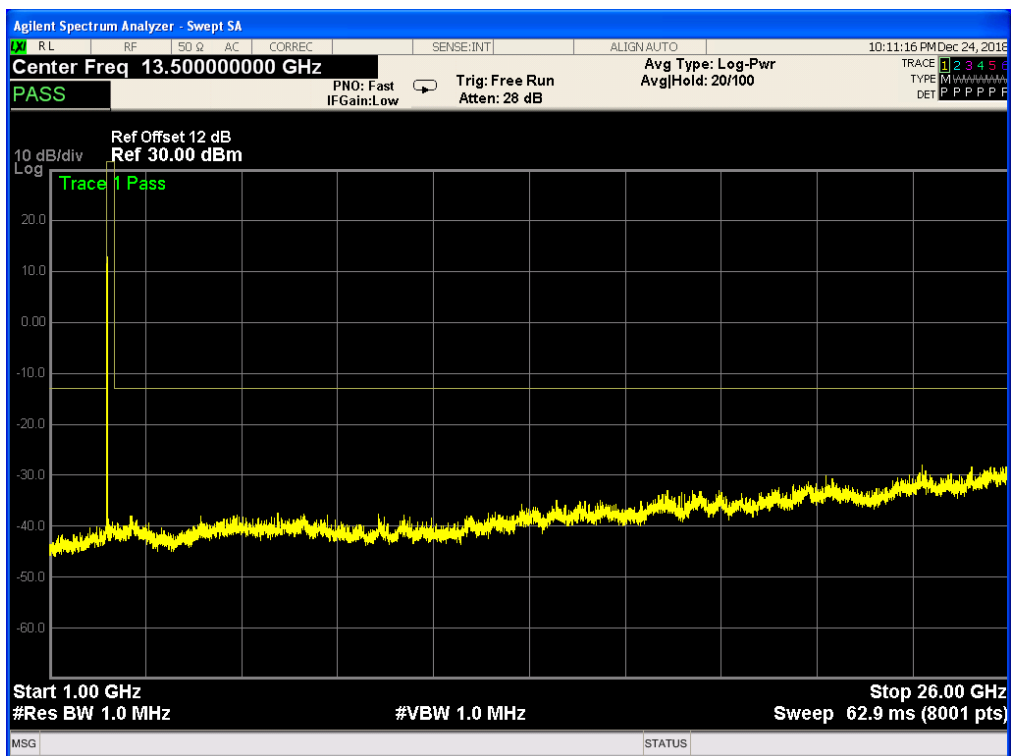
Band 41, UL Channel 39675, UL Frequency 2498.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



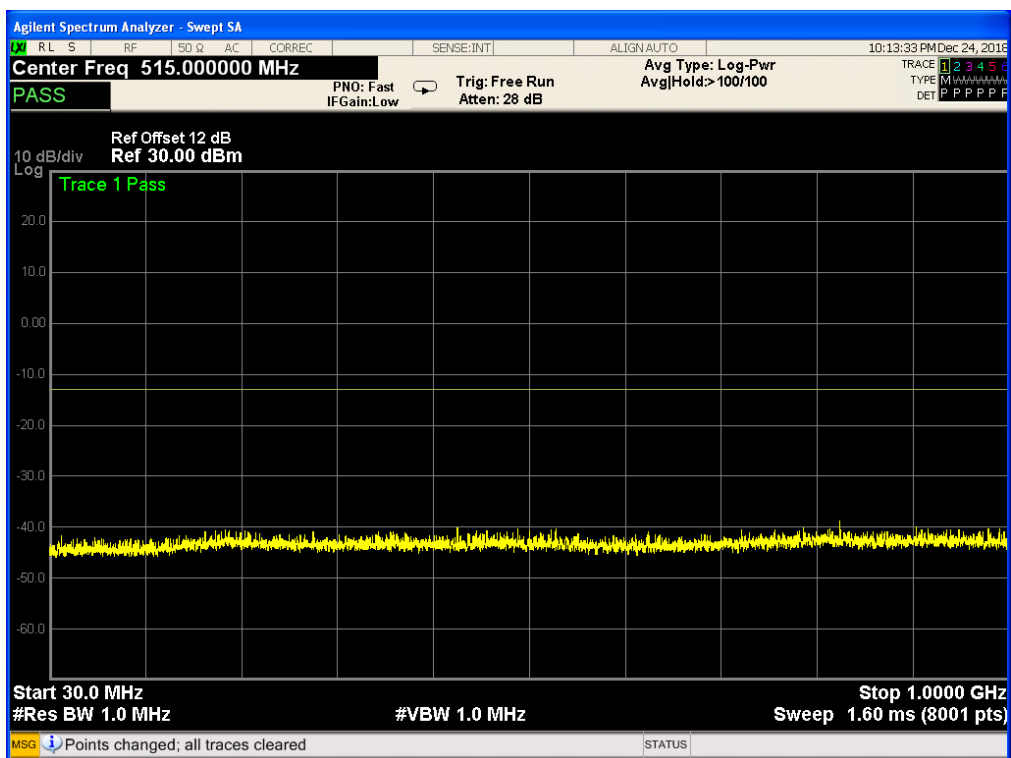
Band 41, UL Channel 39675, UL Frequency 2498.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



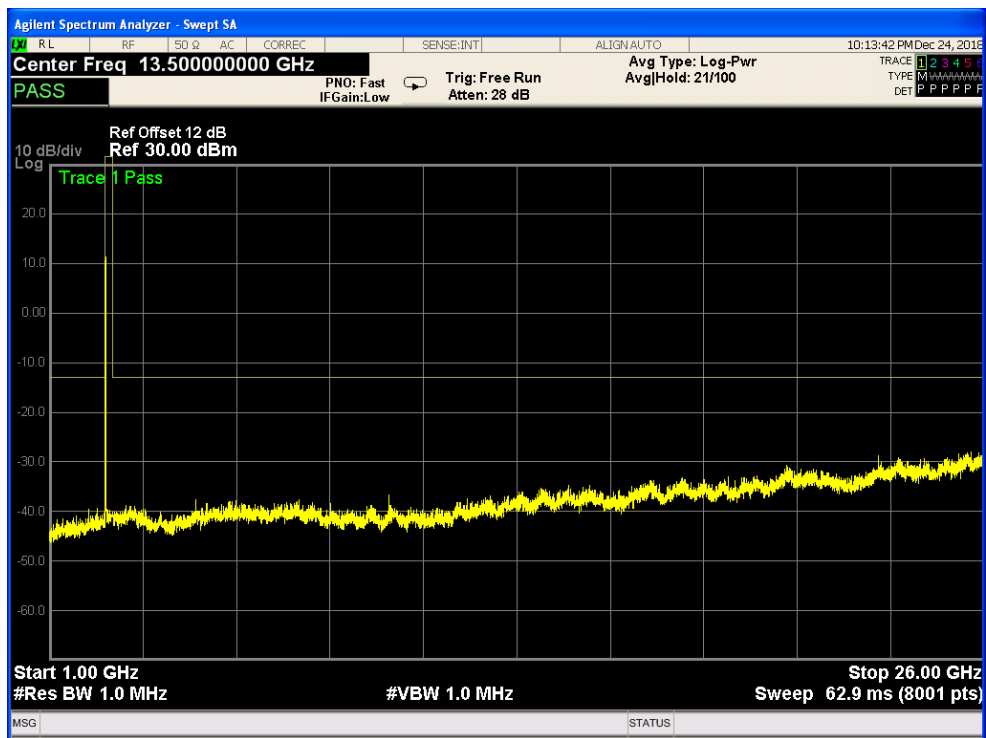
Band 41, UL Channel 39675, UL Frequency 2498.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



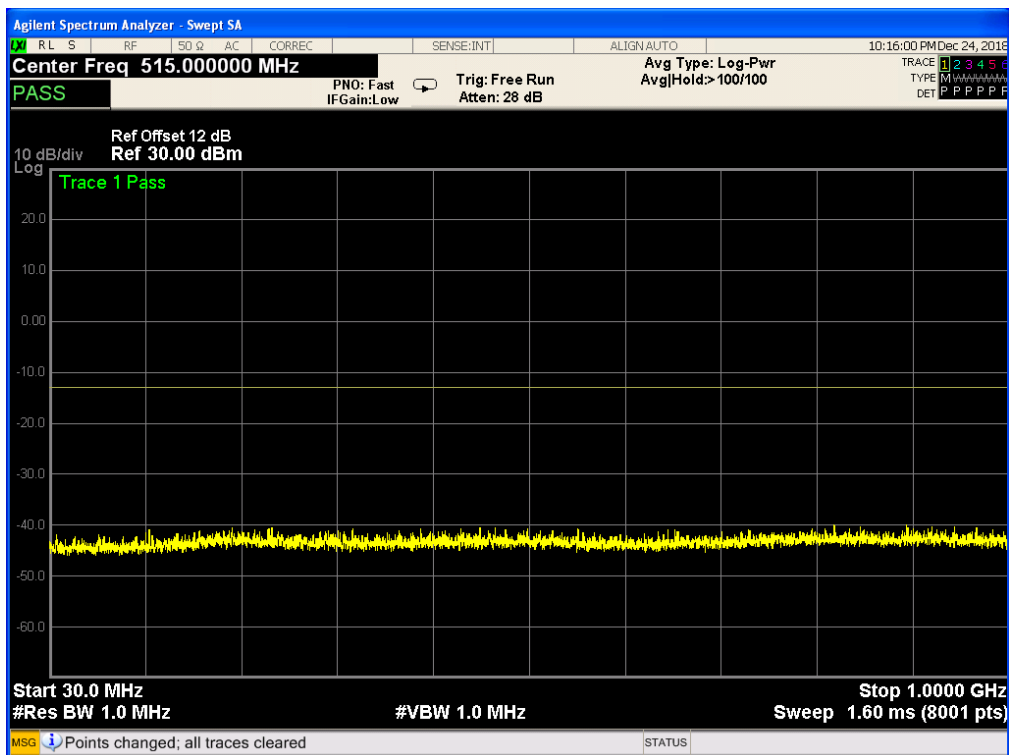
Band 41, UL Channel 41565, UL Frequency 2687.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



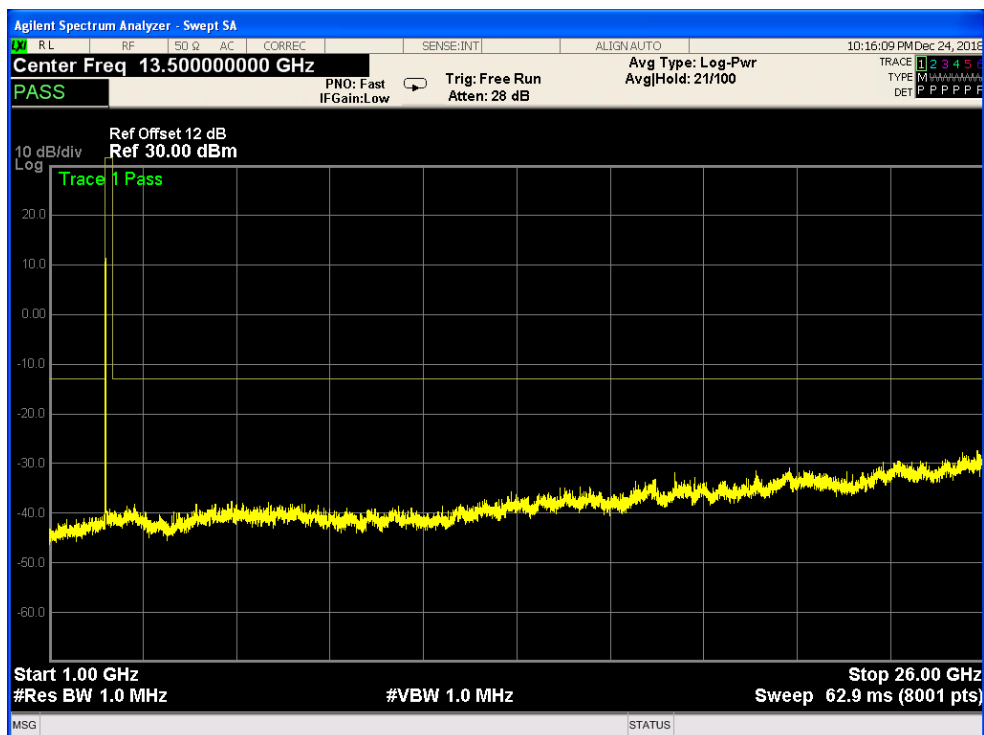
Band 41, UL Channel 41565, UL Frequency 2687.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



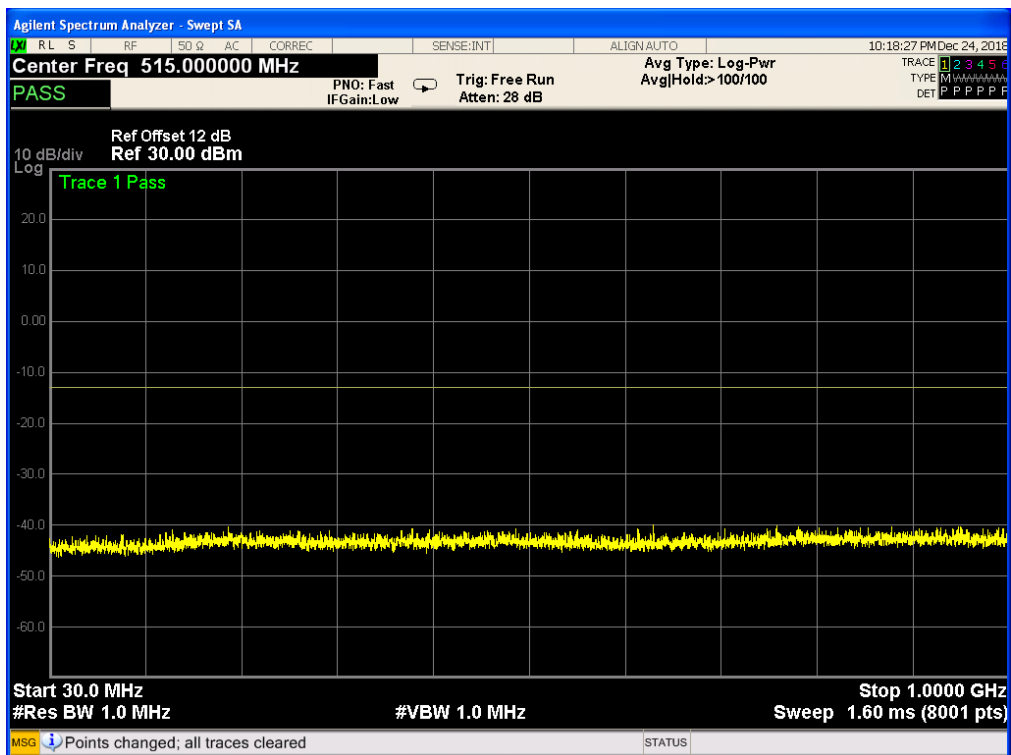
Band 41, UL Channel 41565, UL Frequency 2687.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



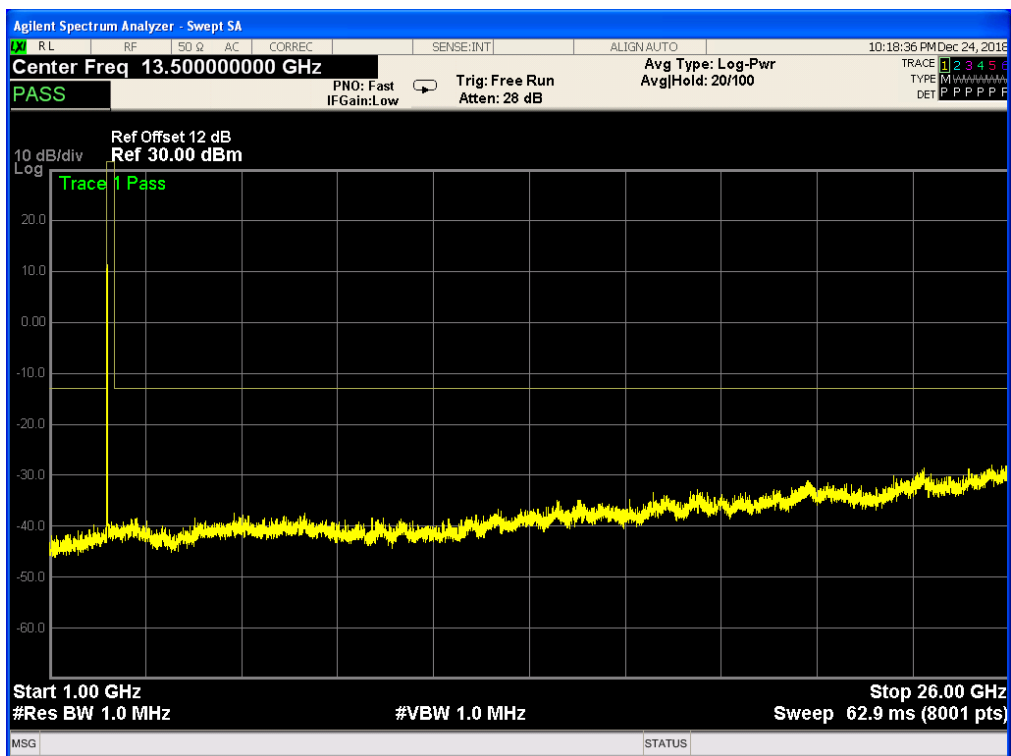
Band 41, UL Channel 41565, UL Frequency 2687.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



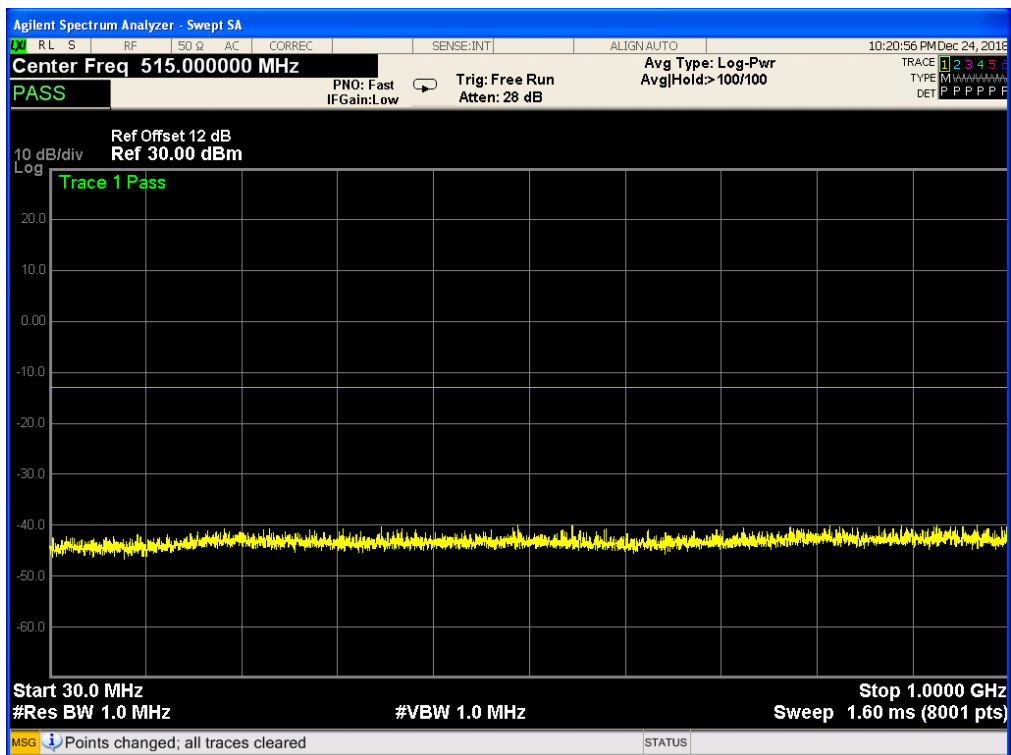
Band 41, UL Channel 39700, UL Frequency 2501.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



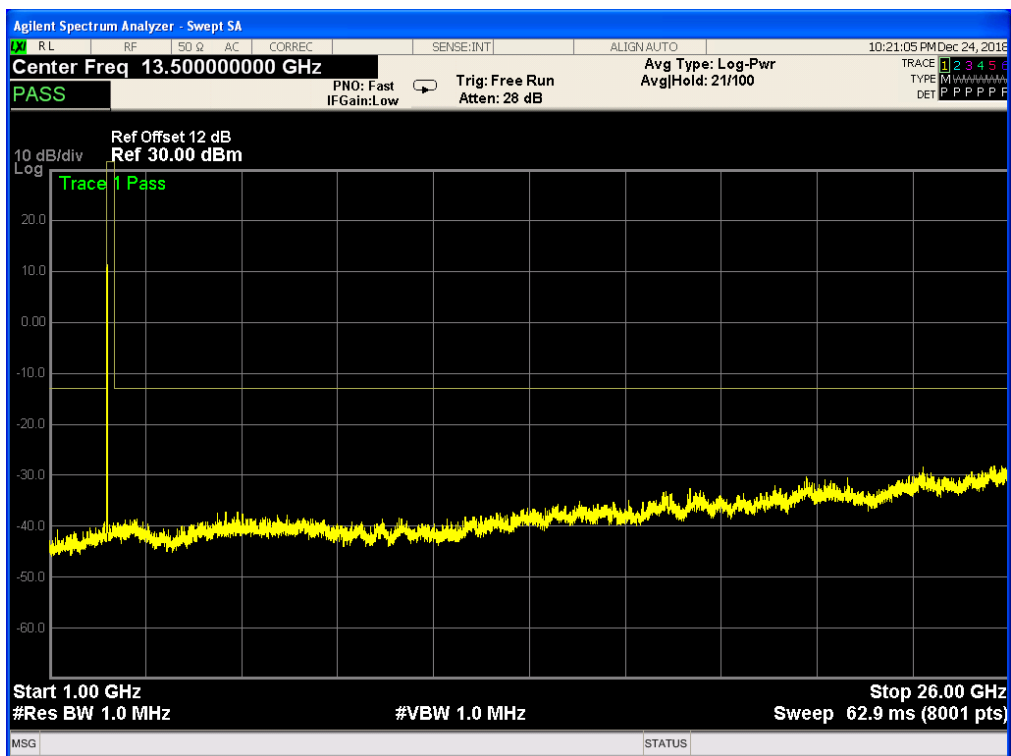
Band 41, UL Channel 39700, UL Frequency 2501.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



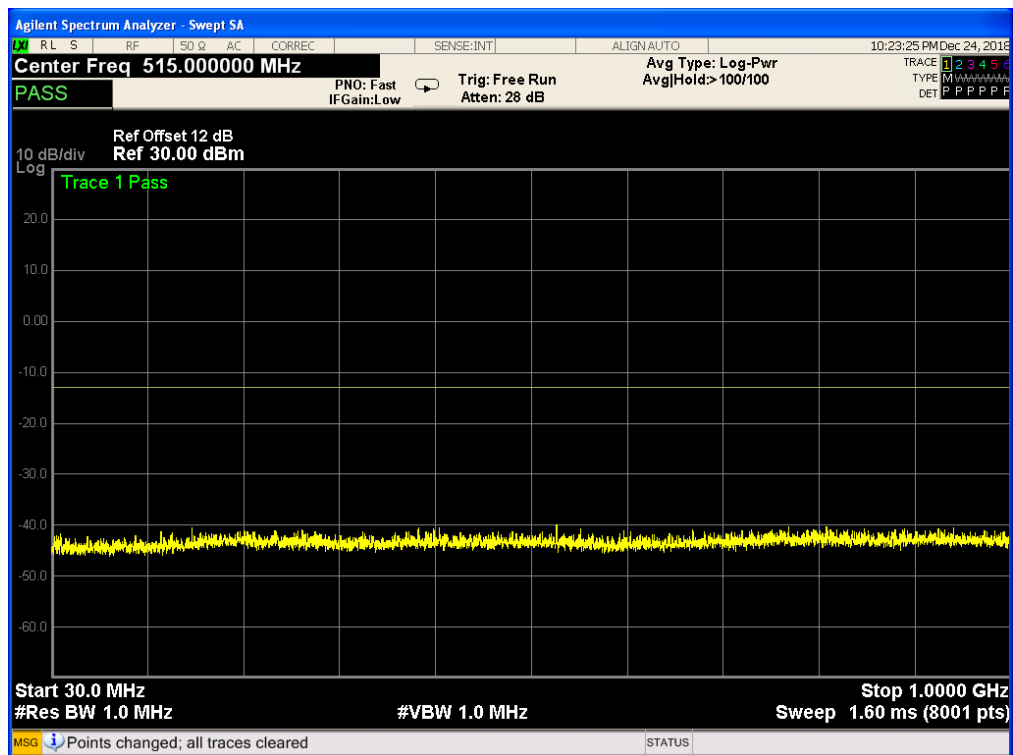
Band 41, UL Channel 39700, UL Frequency 2501.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



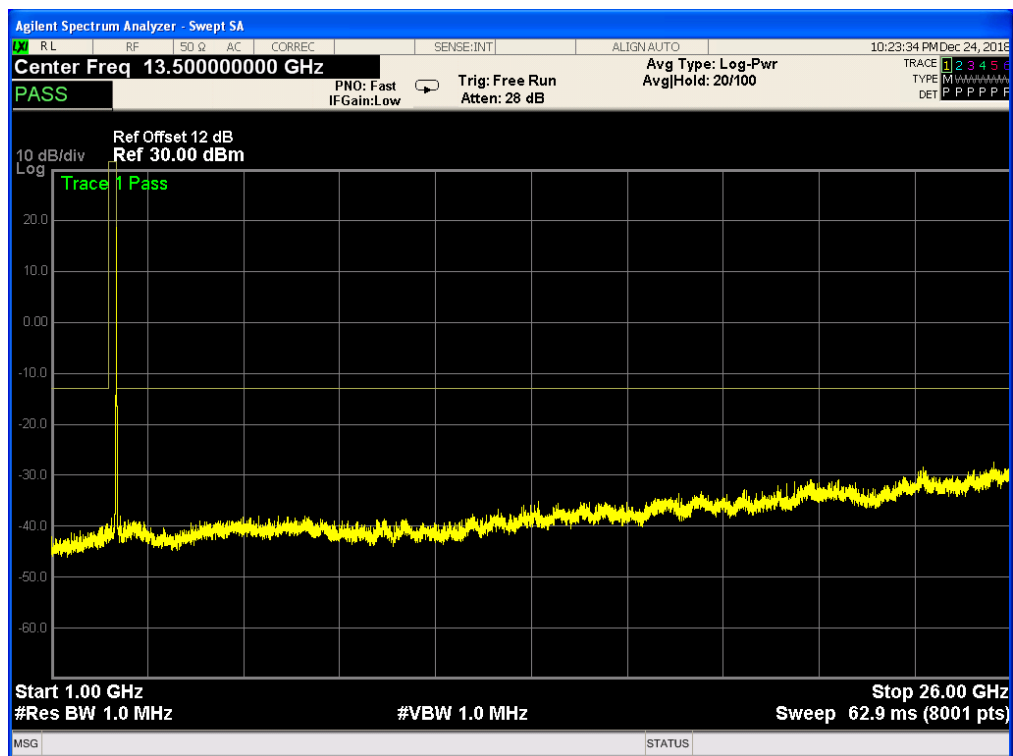
Band 41, UL Channel 39700, UL Frequency 2501.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



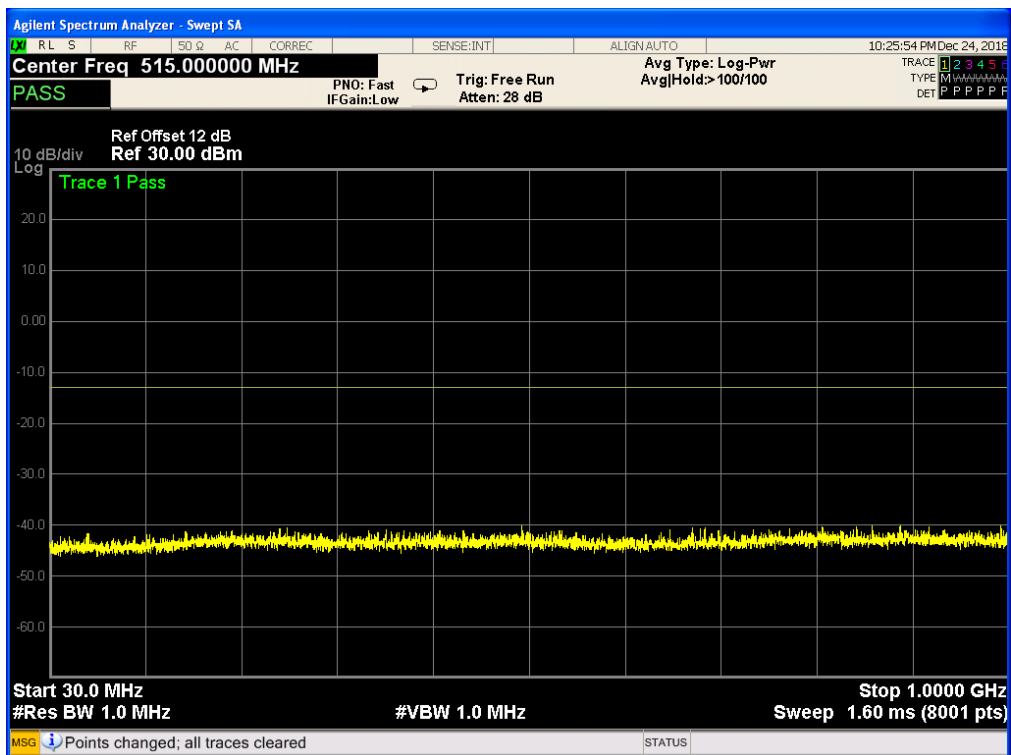
Band 41, UL Channel 41540, UL Frequency 2685.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



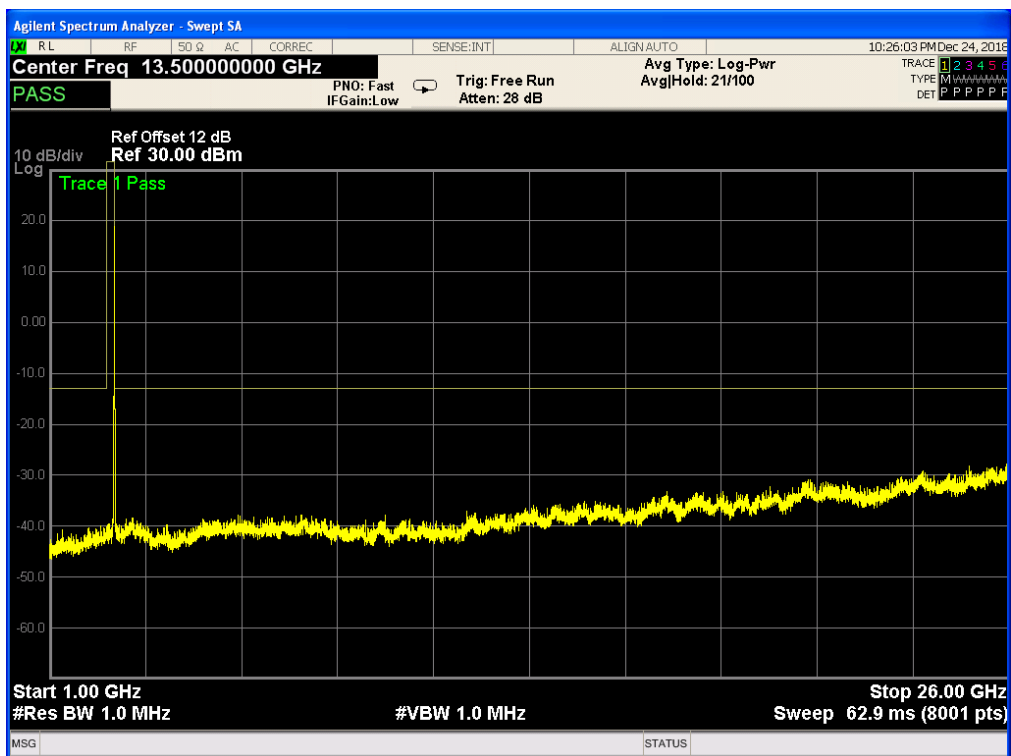
Band 41, UL Channel 41540, UL Frequency 2685.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



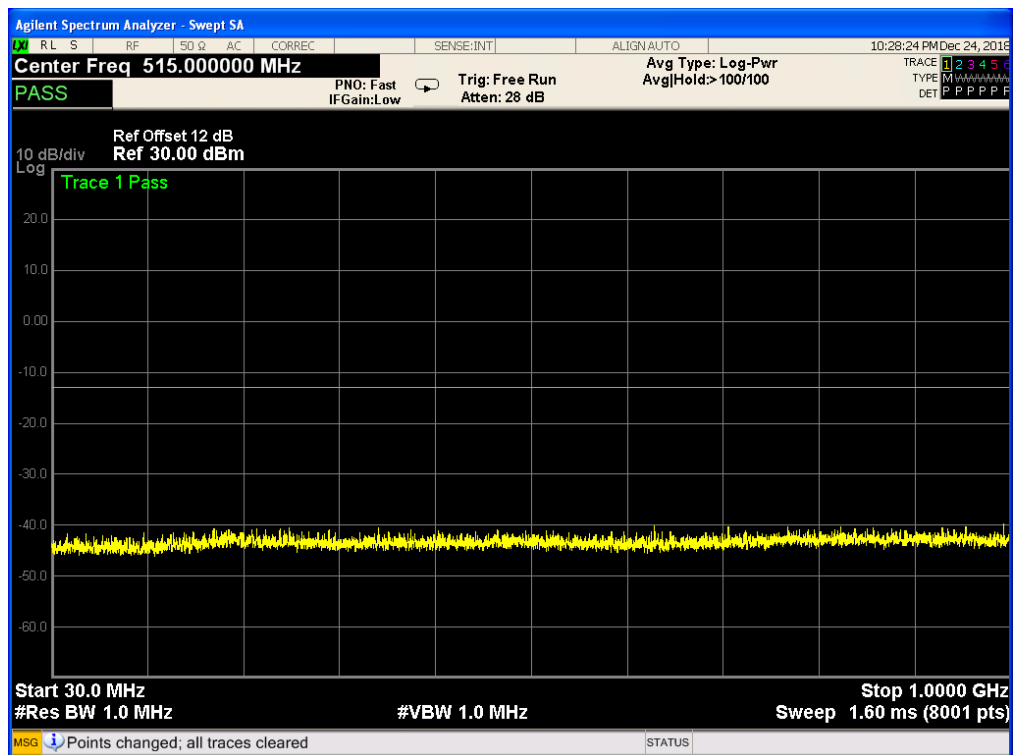
Band 41, UL Channel 41540, UL Frequency 2685.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



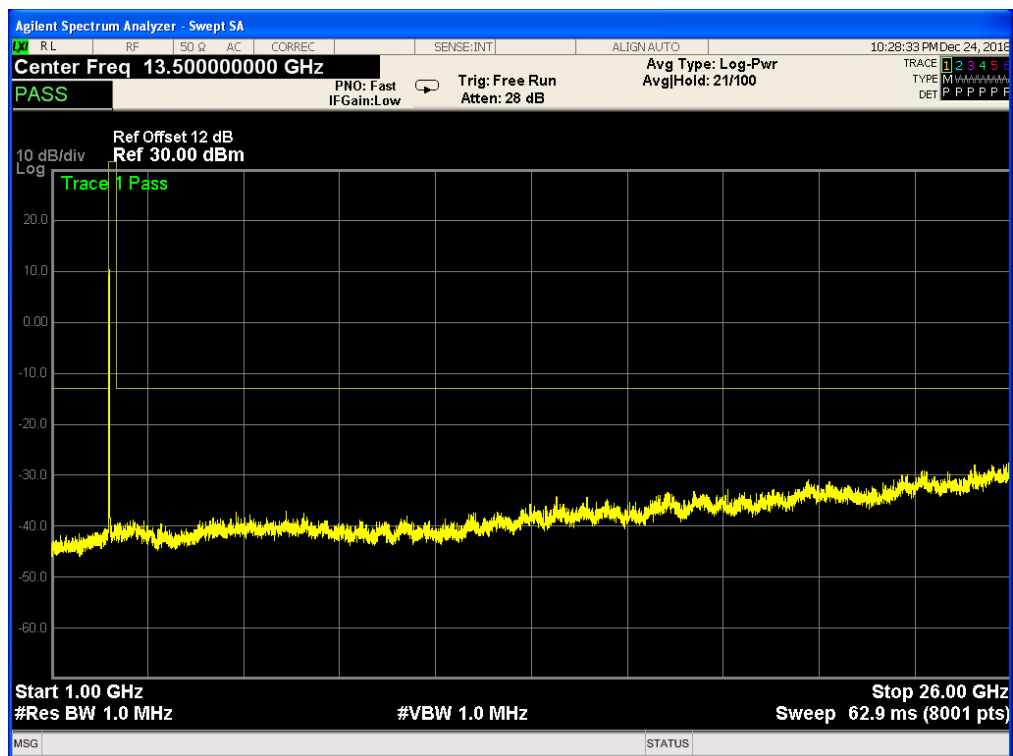
Band 41, UL Channel 41540, UL Frequency 2685.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



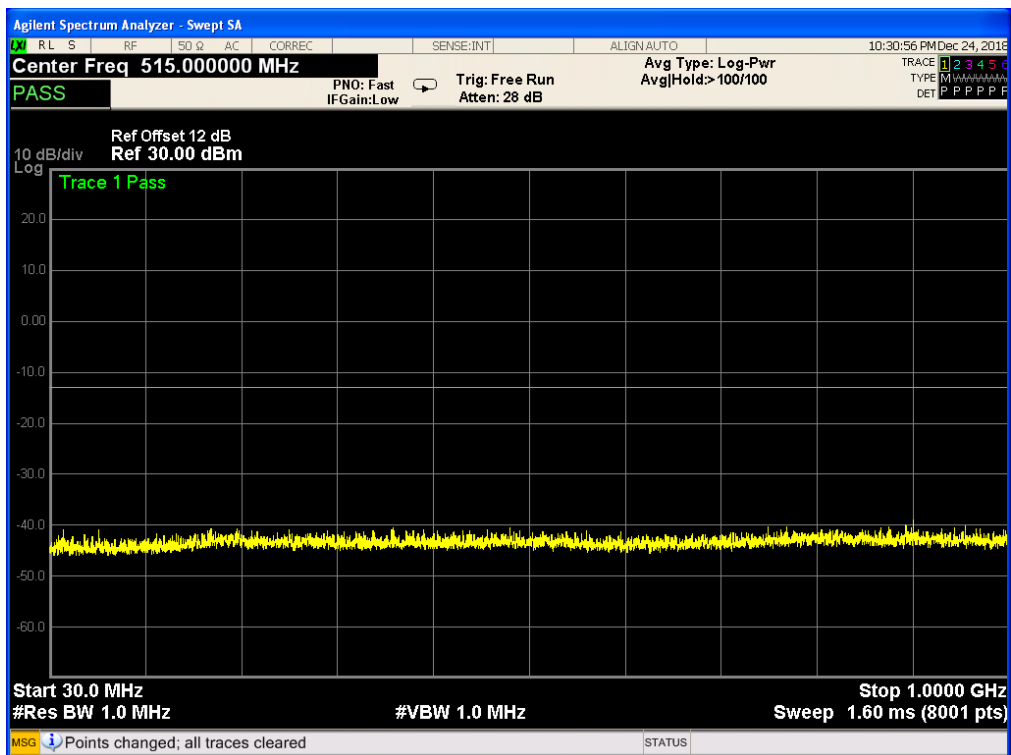
Band 41, UL Channel 39725, UL Frequency 2503.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



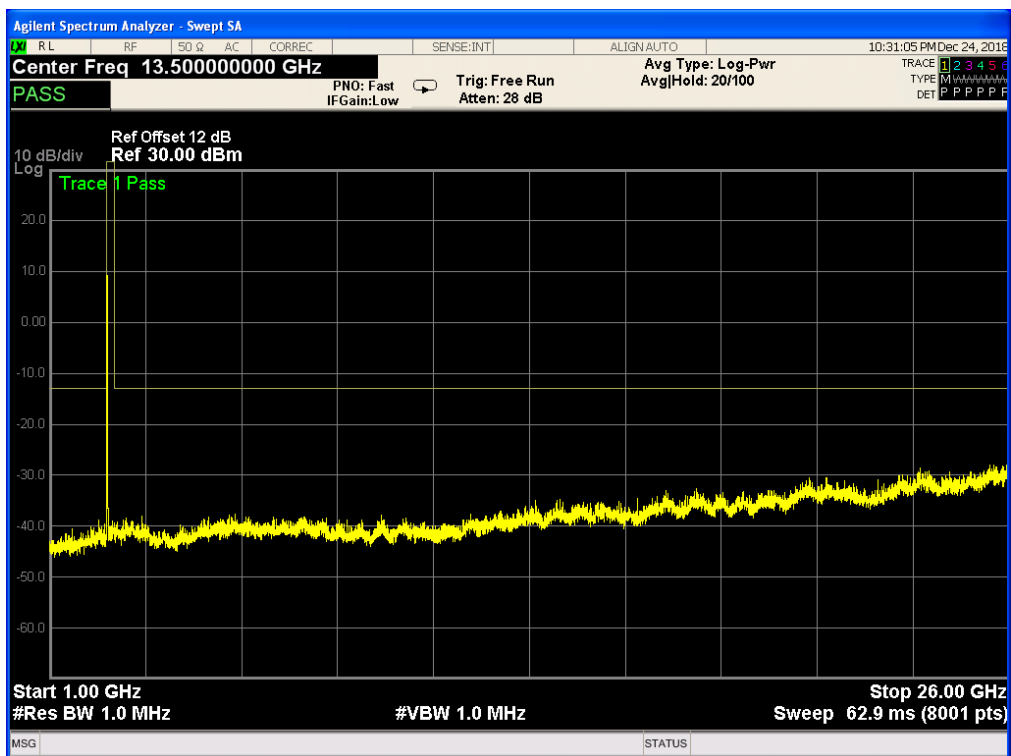
Band 41, UL Channel 39725, UL Frequency 2503.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



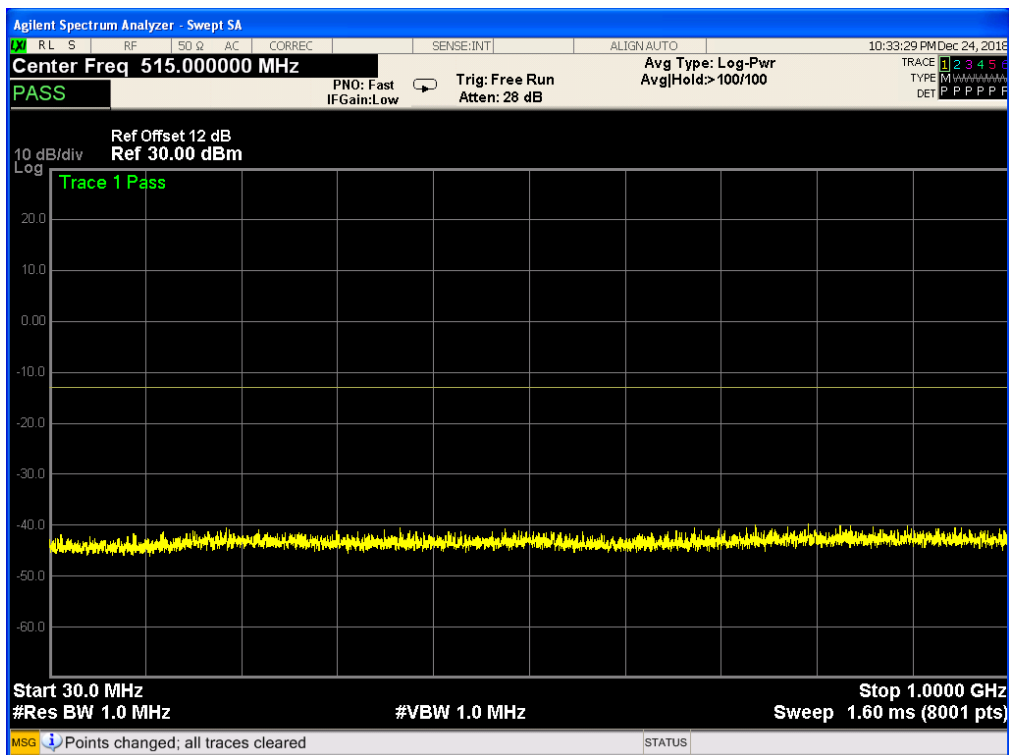
Band 41, UL Channel 39725, UL Frequency 2503.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



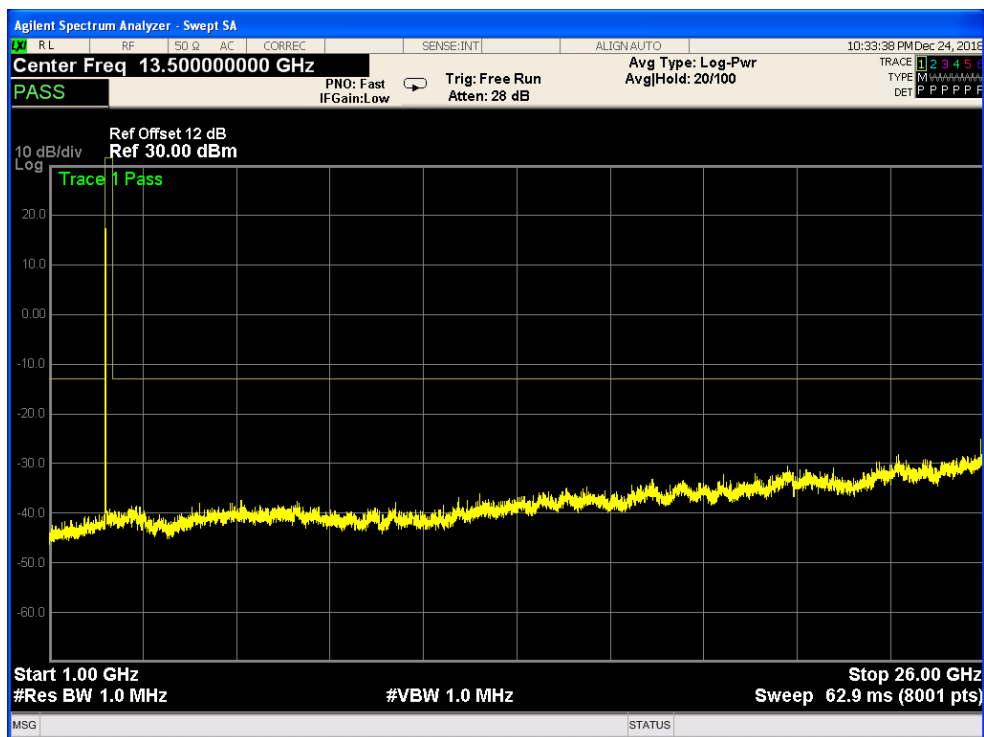
Band 41, UL Channel 39725, UL Frequency 2503.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



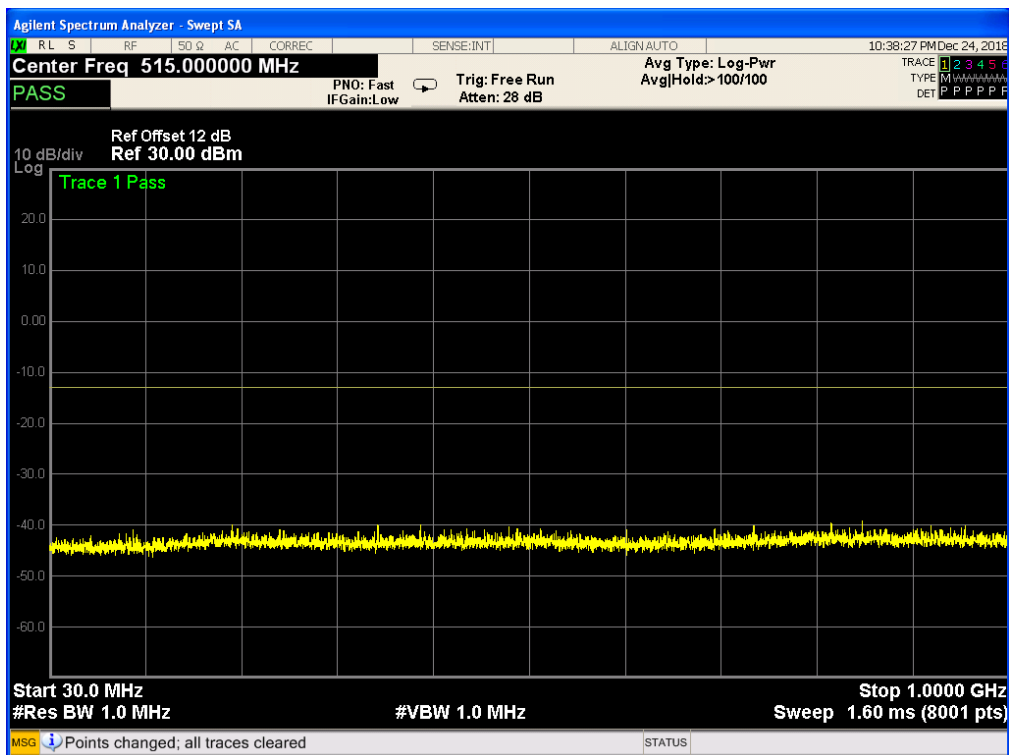
Band 41, UL Channel 41515, UL Frequency 2682.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



Band 41, UL Channel 41515, UL Frequency 2682.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



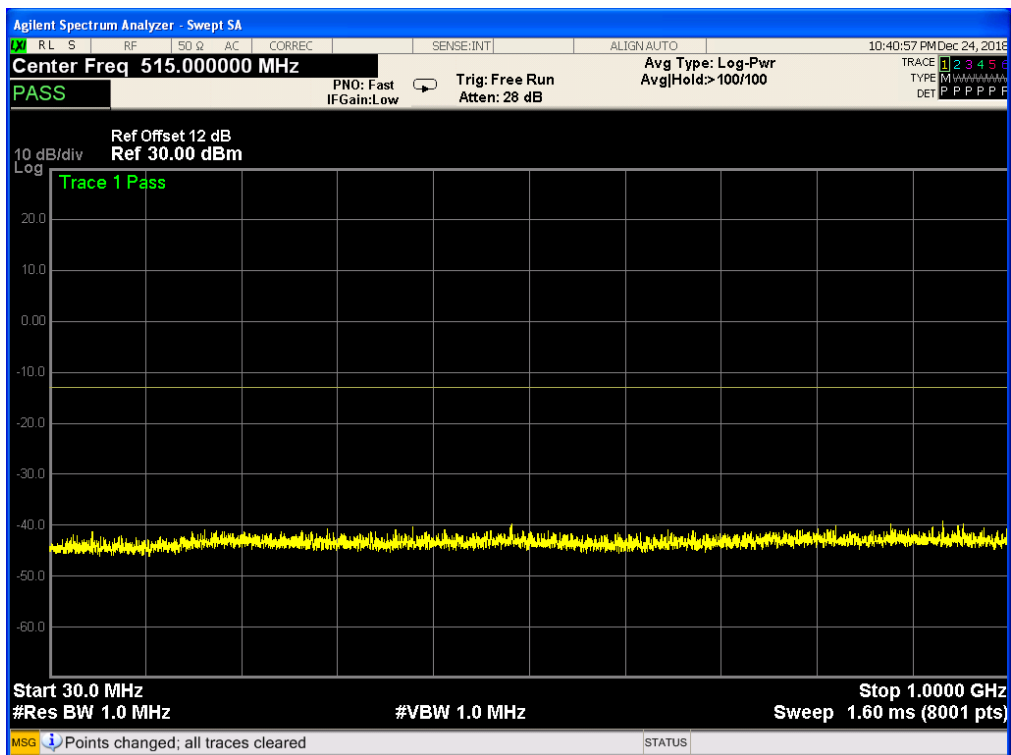
Band 41, UL Channel 41515, UL Frequency 2682.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



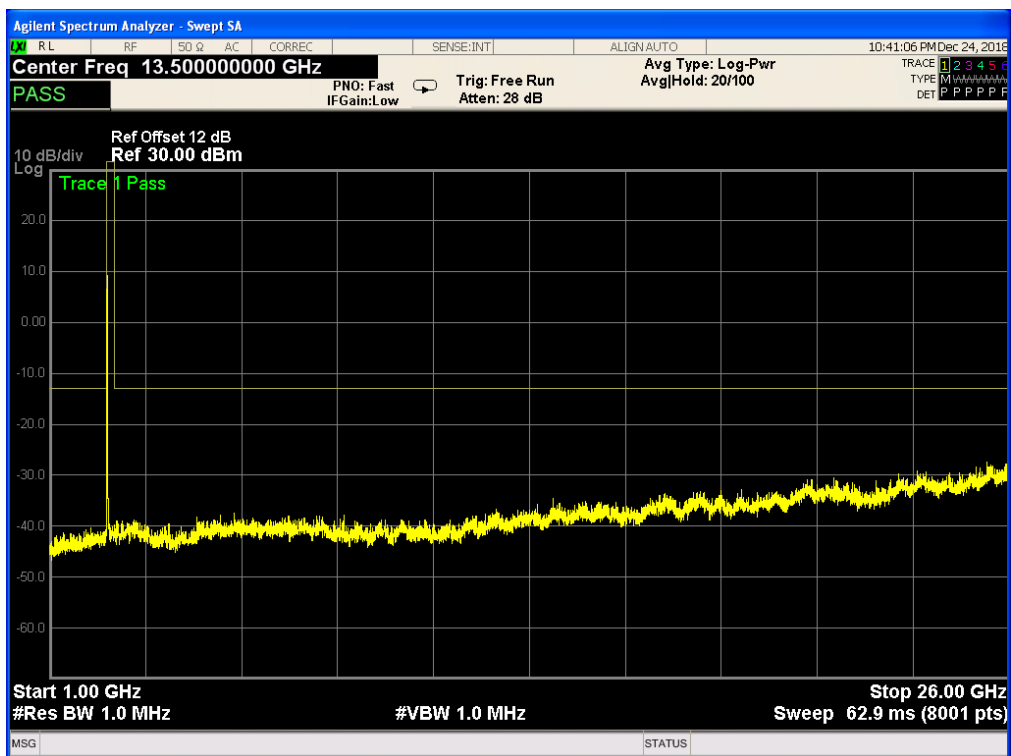
Band 41, UL Channel 41515, UL Frequency 2682.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



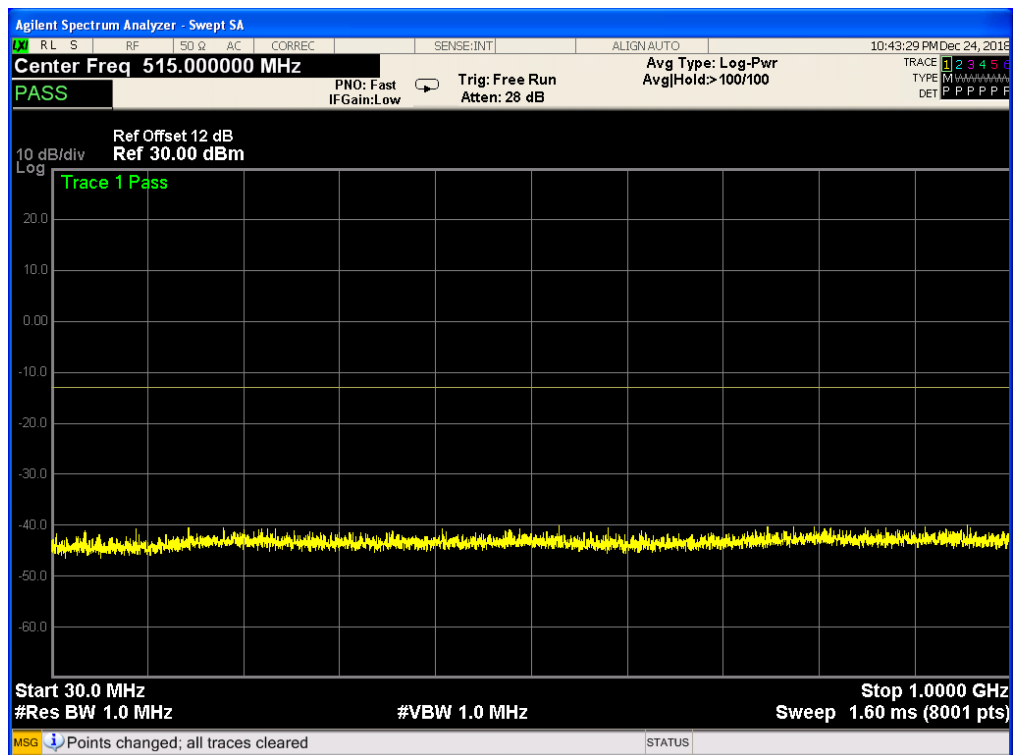
Band 41, UL Channel 39750, UL Frequency 2506.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



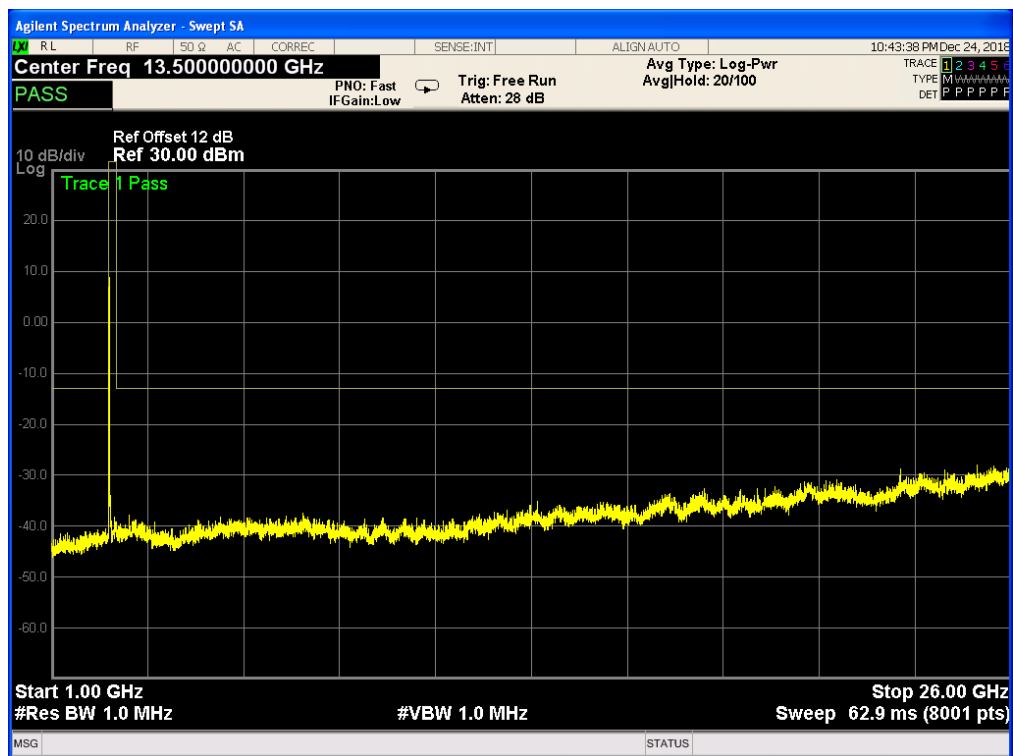
Band 41, UL Channel 39750, UL Frequency 2506.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



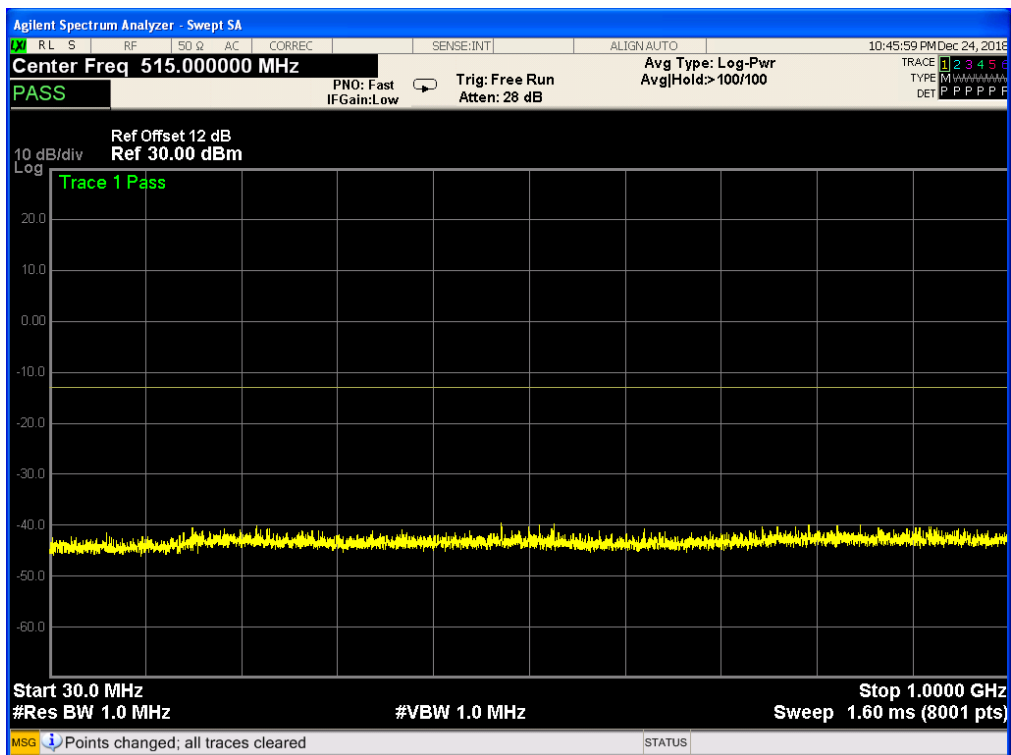
Band 41, UL Channel 39750, UL Frequency 2506.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



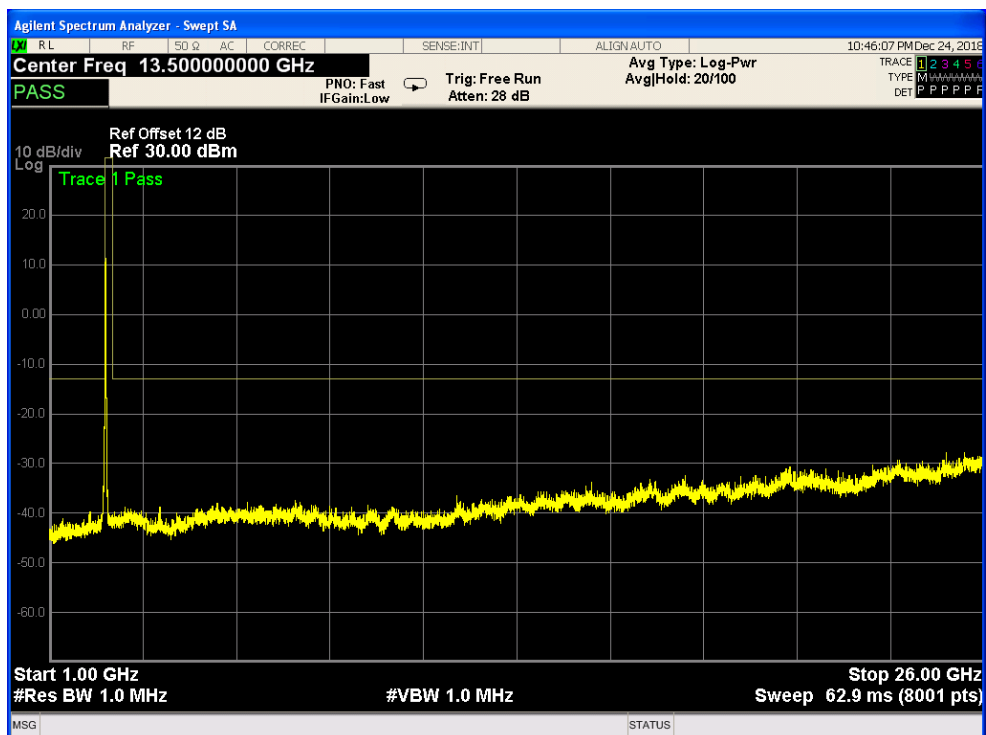
Band 41, UL Channel 39750, UL Frequency 2506.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



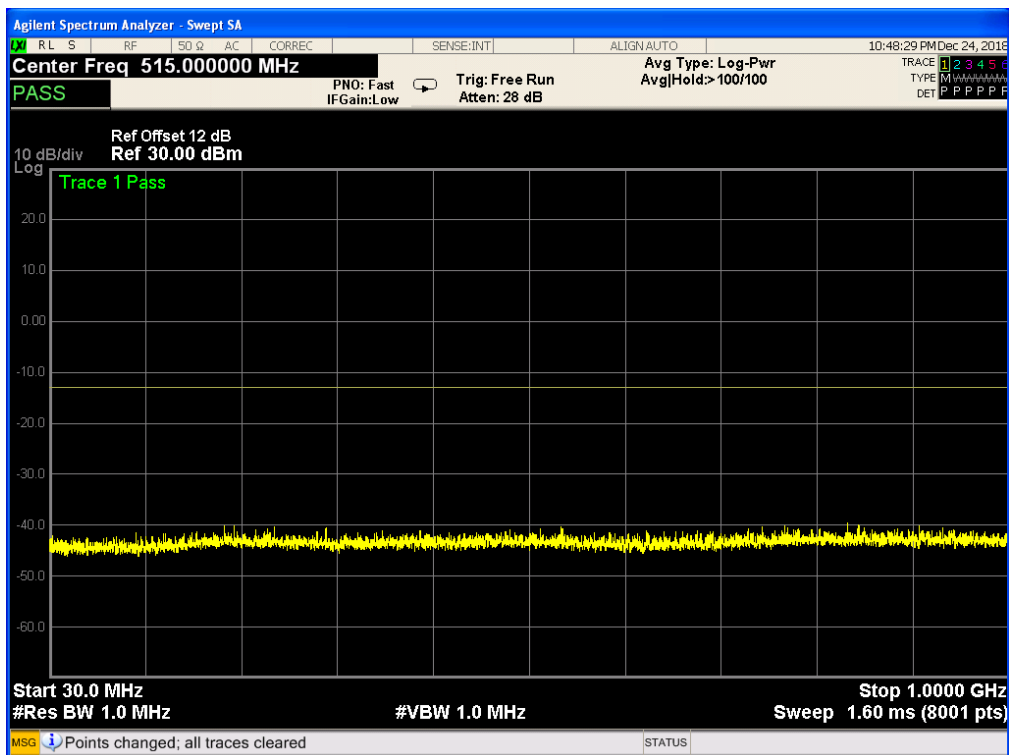
Band 41, UL Channel 41490, UL Frequency 2680.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



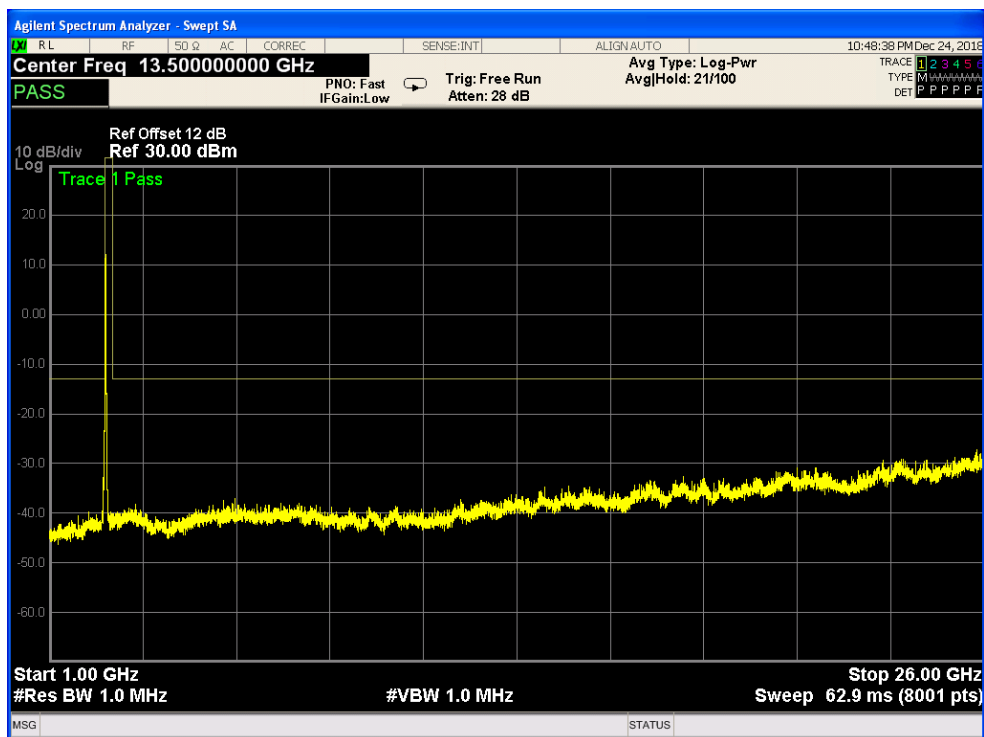
Band 41, UL Channel 41490, UL Frequency 2680.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 41, UL Channel 41490, UL Frequency 2680.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



Band 41, UL Channel 41490, UL Frequency 2680.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



8. Radiated Measurement

8.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232 and §27.50

LIMITS:

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.
27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.
27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

TEST PROCEDURE

ANSI/TIA-603-E Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.

KDB 971168 D01 Power Meas License Digital Systems v02r01, “Measurement Guidance for Certification of Licensed Digital Transmitters”

MODES TESTED

LTE Band 4
LTE Band 5
LTE Band 7
LTE Band 38
LTE Band 40
LTE Band 41

RESULTS

Pass

8.2 LTE BAND 4

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	6/0	1710.7	-0.59	3.12	27.58	23.87	243.781	Vertical	Pass
		1732.5	-0.43	3.27	27.61	23.91	246.037	Vertical	Pass
		1754.3	-0.48	3.29	27.63	23.86	243.220	Vertical	Pass
1.4MHz Band 16 QAM	6/0	1710.7	-1.62	3.12	27.58	22.84	192.309	Vertical	Pass
		1732.5	-1.63	3.27	27.61	22.71	186.638	Vertical	Pass
		1754.3	-1.55	3.29	27.63	22.79	190.108	Vertical	Pass
3.0MHz Band QPSK	15/0	1711.5	-0.57	3.13	27.61	23.91	246.037	Vertical	Pass
		1732.5	-0.46	3.27	27.61	23.88	244.343	Vertical	Pass
		1753.5	-0.40	3.30	27.62	23.92	246.604	Vertical	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-1.81	3.13	27.61	22.67	184.927	Vertical	Pass
		1732.5	-1.88	3.27	27.61	22.46	176.198	Vertical	Pass
		1753.5	-1.74	3.30	27.62	22.58	181.134	Vertical	Pass
5.0MHz Band QPSK	25/0	1712.5	-0.49	3.13	27.63	24.01	251.768	Vertical	Pass
		1732.5	-0.42	3.27	27.61	23.92	246.604	Vertical	Pass
		1752.5	-0.43	3.30	27.60	23.87	243.781	Vertical	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-1.96	3.13	27.63	22.54	179.473	Vertical	Pass
		1732.5	-1.67	3.27	27.61	22.67	184.927	Vertical	Pass
		1752.5	-1.61	3.30	27.60	22.69	185.780	Vertical	Pass
10.0MHz Band QPSK	50/0	1715	-0.65	3.15	27.64	23.84	242.103	Vertical	Pass
		1732.5	-0.74	3.31	27.61	23.56	226.986	Vertical	Pass
		1750	-0.51	3.33	27.59	23.75	237.137	Vertical	Pass
10.0MHz Band 16 QAM	50/0	1715	-1.75	3.15	27.64	22.74	187.932	Vertical	Pass
		1732.5	-1.69	3.31	27.61	22.61	182.390	Vertical	Pass
		1750	-1.67	3.33	27.59	22.59	181.552	Vertical	Pass
15.0MHz Band QPSK	75/0	1717.5	-0.56	3.15	27.65	23.94	247.742	Vertical	Pass
		1732.5	-1.12	3.31	27.61	23.18	207.970	Vertical	Pass
		1747.5	-0.13	3.33	27.57	24.11	257.632	Vertical	Pass
15.0MHz Band 16 QAM	75/0	1717.5	-1.79	3.15	27.65	22.71	186.638	Vertical	Pass
		1732.5	-1.84	3.31	27.61	22.46	176.198	Vertical	Pass
		1747.5	-1.65	3.33	27.57	22.59	181.552	Vertical	Pass

20.0MH z Band QPSK	100/0	1720	-0.46	3.17	27.66	24.03	252.930	Vertical	Pass
		1732.5	-0.34	3.32	27.61	23.95	248.313	Vertical	Pass
		1745	-0.33	3.36	27.56	23.87	243.781	Vertical	Pass
20.0MH z Band 16 QAM	100/0	1720	-1.78	3.17	27.66	22.71	186.638	Vertical	Pass
		1732.5	-1.71	3.32	27.61	22.58	181.134	Vertical	Pass
		1745	-1.57	3.36	27.56	22.63	183.231	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	6/0	1710.7	-0.95	3.12	27.58	23.51	224.388	Horizontal	Pass
		1732.5	-0.87	3.27	27.61	23.47	222.331	Horizontal	Pass
		1754.3	-1.06	3.29	27.63	23.28	212.814	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	1710.7	-2.02	3.12	27.58	22.44	175.388	Horizontal	Pass
		1732.5	-2.00	3.27	27.61	22.34	171.396	Horizontal	Pass
		1754.3	-2.18	3.29	27.63	22.16	164.437	Horizontal	Pass
3.0MHz Band QPSK	15/0	1711.5	-0.87	3.13	27.61	23.61	229.615	Horizontal	Pass
		1732.5	-0.75	3.27	27.61	23.59	228.560	Horizontal	Pass
		1753.5	-0.95	3.30	27.62	23.37	217.270	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-2.30	3.13	27.61	22.18	165.196	Horizontal	Pass
		1732.5	-2.28	3.27	27.61	22.06	160.694	Horizontal	Pass
		1753.5	-2.00	3.30	27.62	22.32	170.608	Horizontal	Pass
5.0MHz Band QPSK	25/0	1712.5	-0.86	3.13	27.63	23.64	231.206	Horizontal	Pass
		1732.5	-0.87	3.27	27.61	23.47	222.331	Horizontal	Pass
		1752.5	-0.91	3.30	27.60	23.39	218.273	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-2.37	3.13	27.63	22.13	163.305	Horizontal	Pass
		1732.5	-2.10	3.27	27.61	22.24	167.494	Horizontal	Pass
		1752.5	-2.03	3.30	27.60	22.27	168.655	Horizontal	Pass
10.0MHz Band QPSK	50/0	1715	-0.93	3.15	27.64	23.56	226.986	Horizontal	Pass
		1732.5	-0.88	3.31	27.61	23.42	219.786	Horizontal	Pass
		1750	-0.79	3.33	27.59	23.47	222.331	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	1715	-2.15	3.15	27.64	22.34	171.396	Horizontal	Pass
		1732.5	-1.94	3.31	27.61	22.36	172.187	Horizontal	Pass
		1750	-2.01	3.33	27.59	22.25	167.880	Horizontal	Pass
15.0MHz Band QPSK	75/0	1717.5	-1.09	3.15	27.65	23.41	219.280	Horizontal	Pass
		1732.5	-0.92	3.31	27.61	23.38	217.771	Horizontal	Pass
		1747.5	-0.80	3.33	27.57	23.44	220.800	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	1717.5	-1.97	3.15	27.65	22.53	179.061	Horizontal	Pass
		1732.5	-2.14	3.31	27.61	22.16	164.437	Horizontal	Pass
		1747.5	-1.87	3.33	27.57	22.37	172.584	Horizontal	Pass
20.0MHz Band	100/0	1720	-0.81	3.17	27.66	23.68	233.346	Horizontal	Pass
		1732.5	-1.07	3.32	27.61	23.22	209.894	Horizontal	Pass