

Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



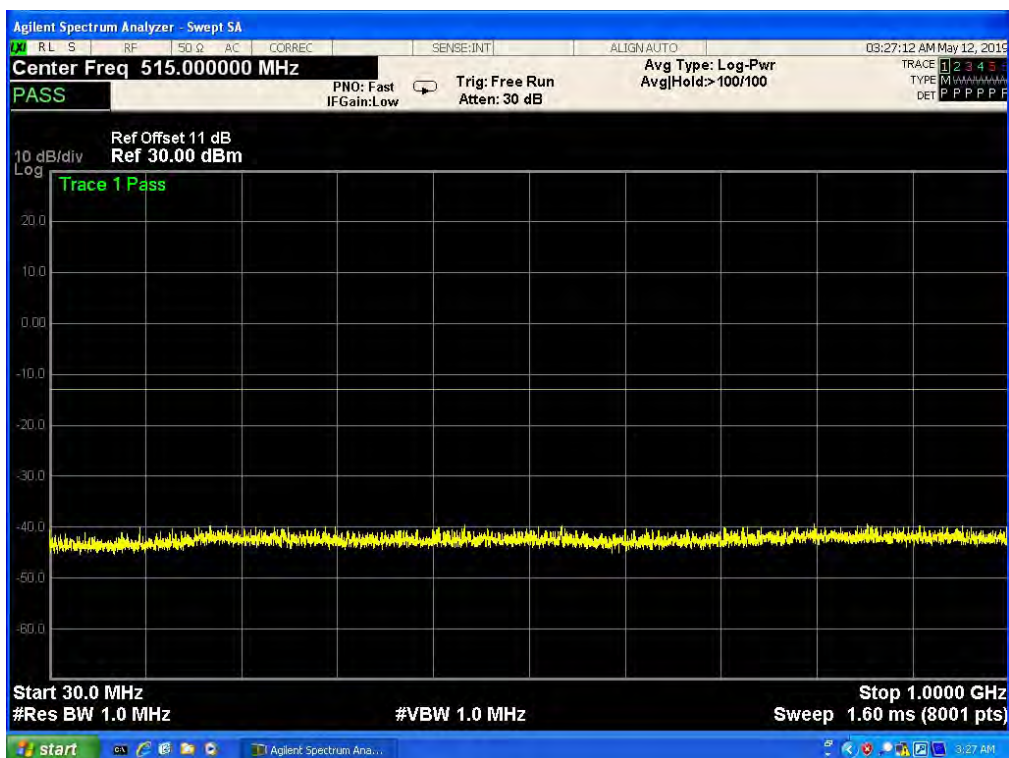
Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM



Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM



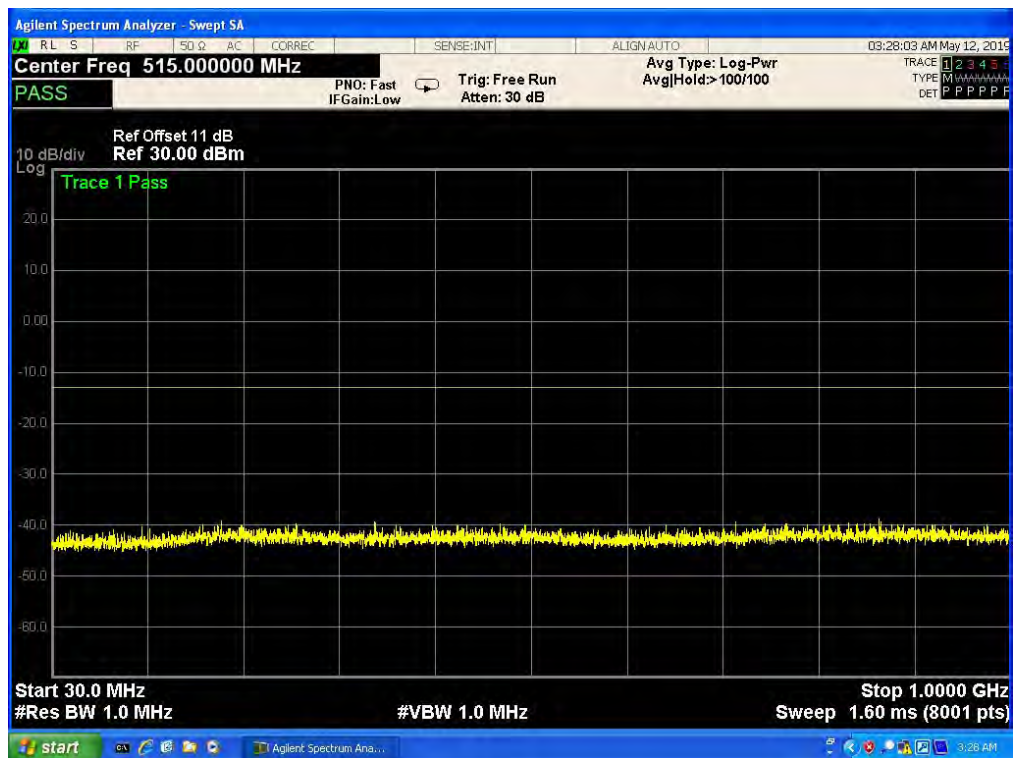
Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

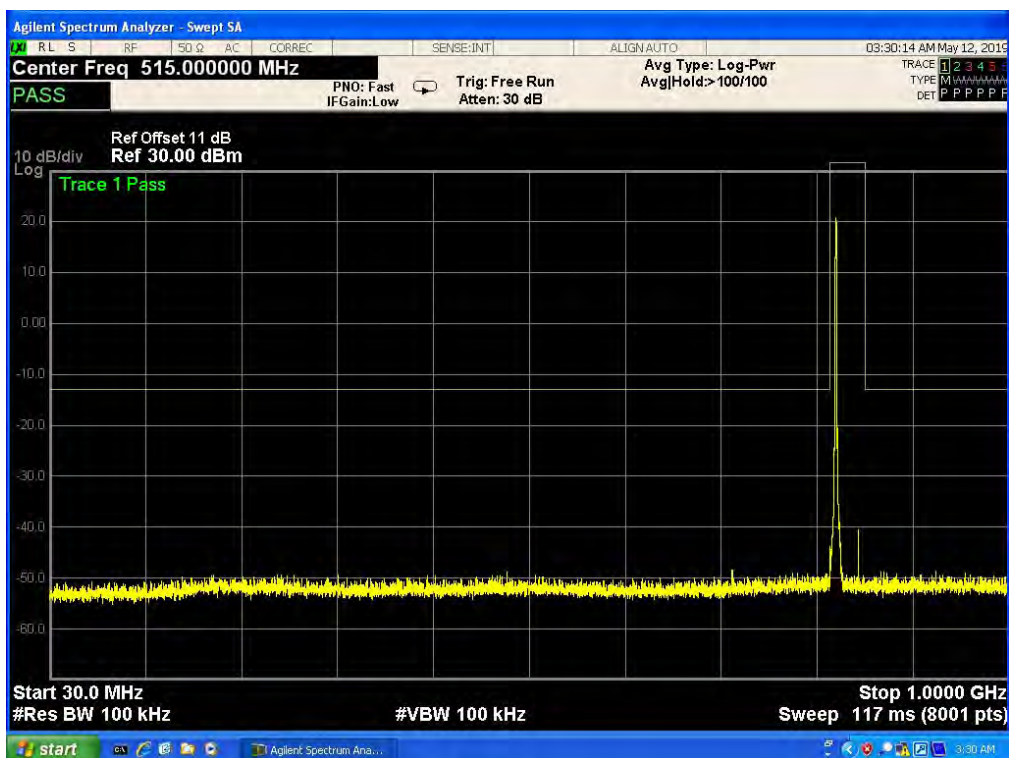


Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

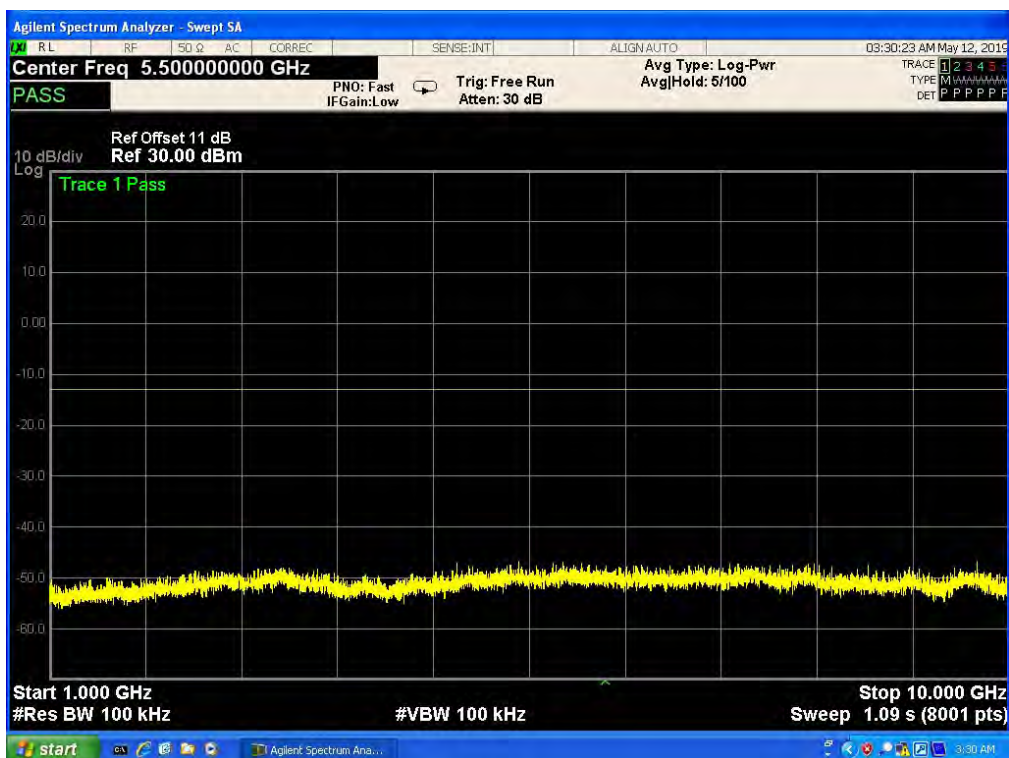


7.3 LTE BAND 5

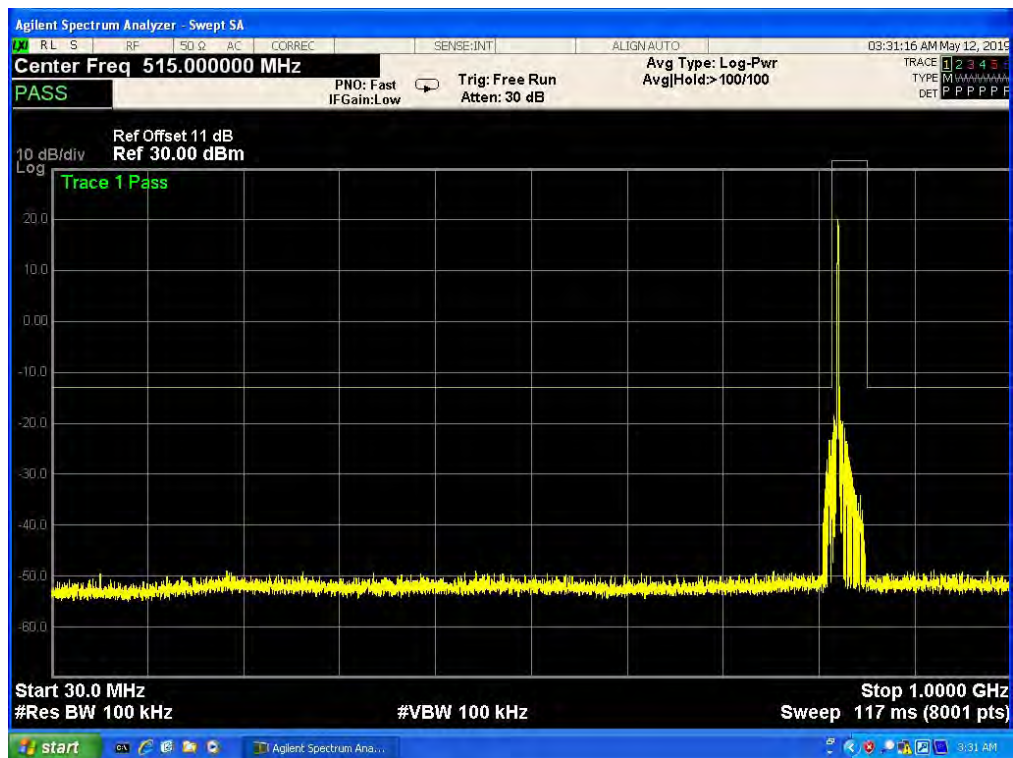
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



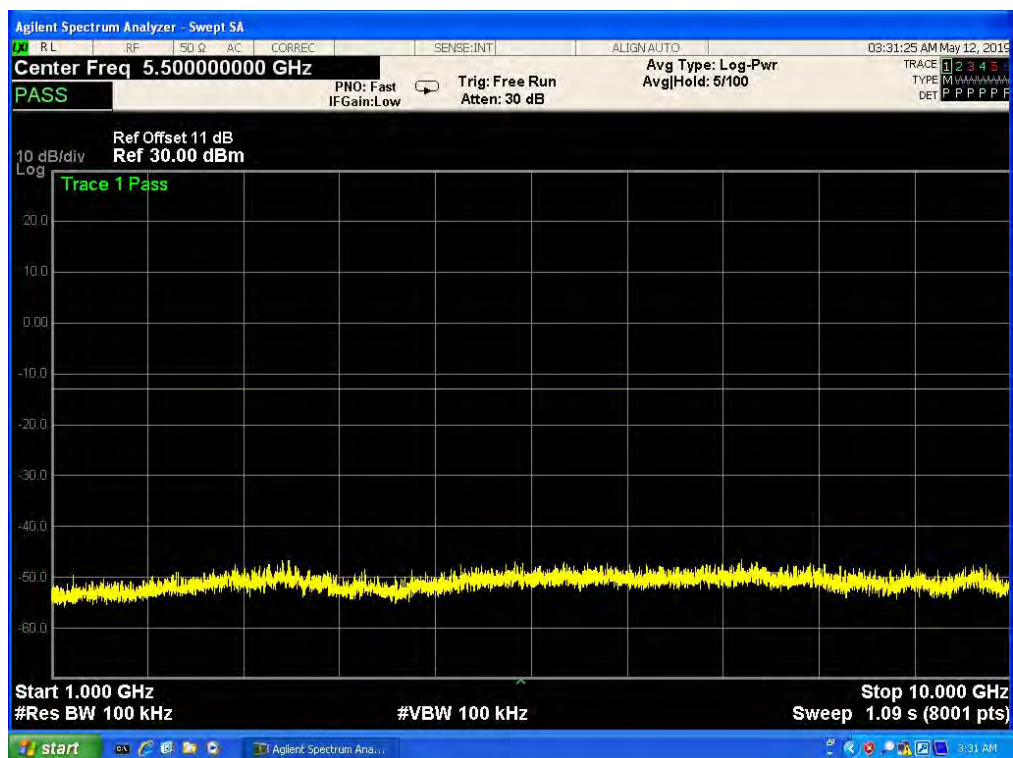
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



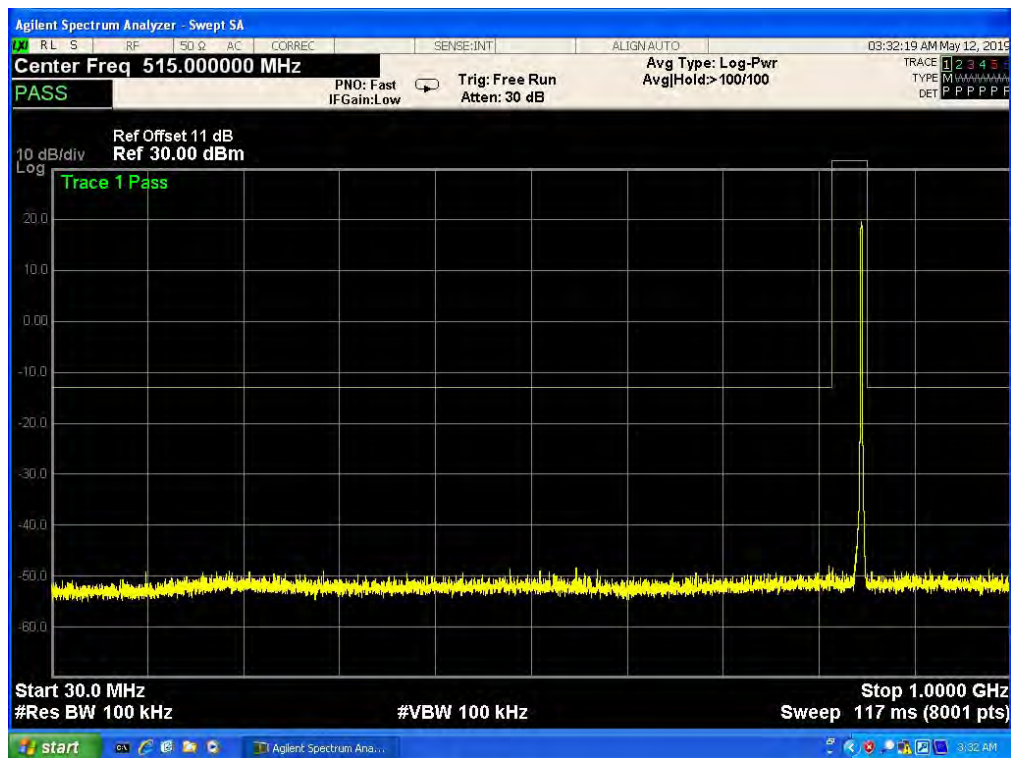
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



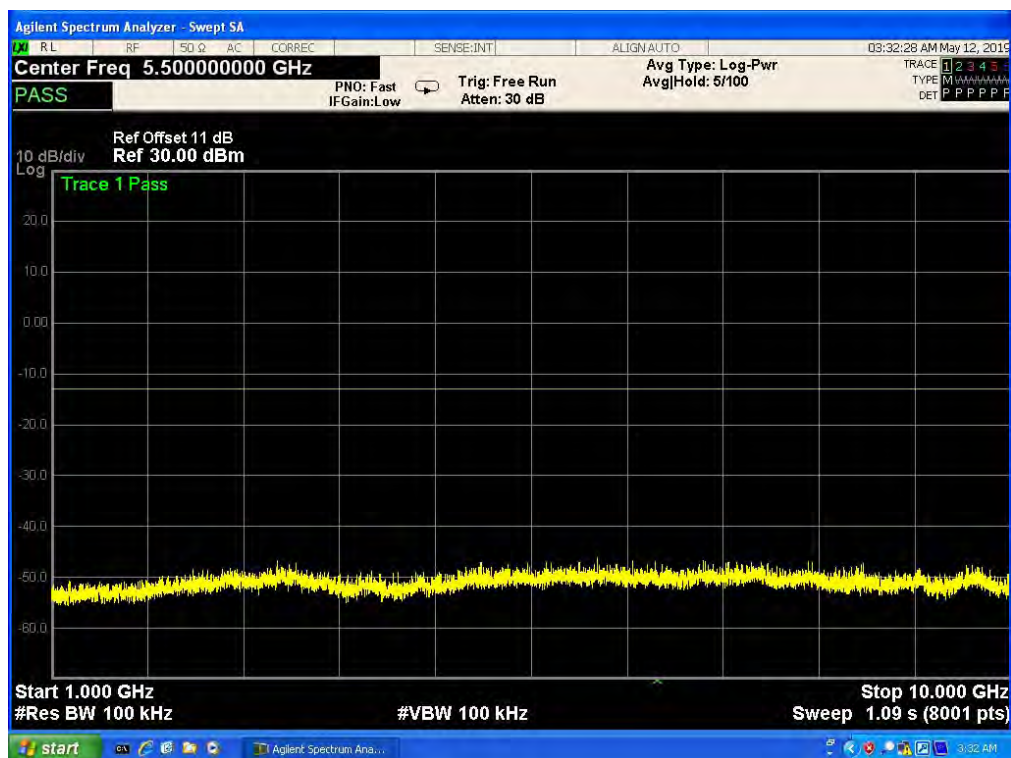
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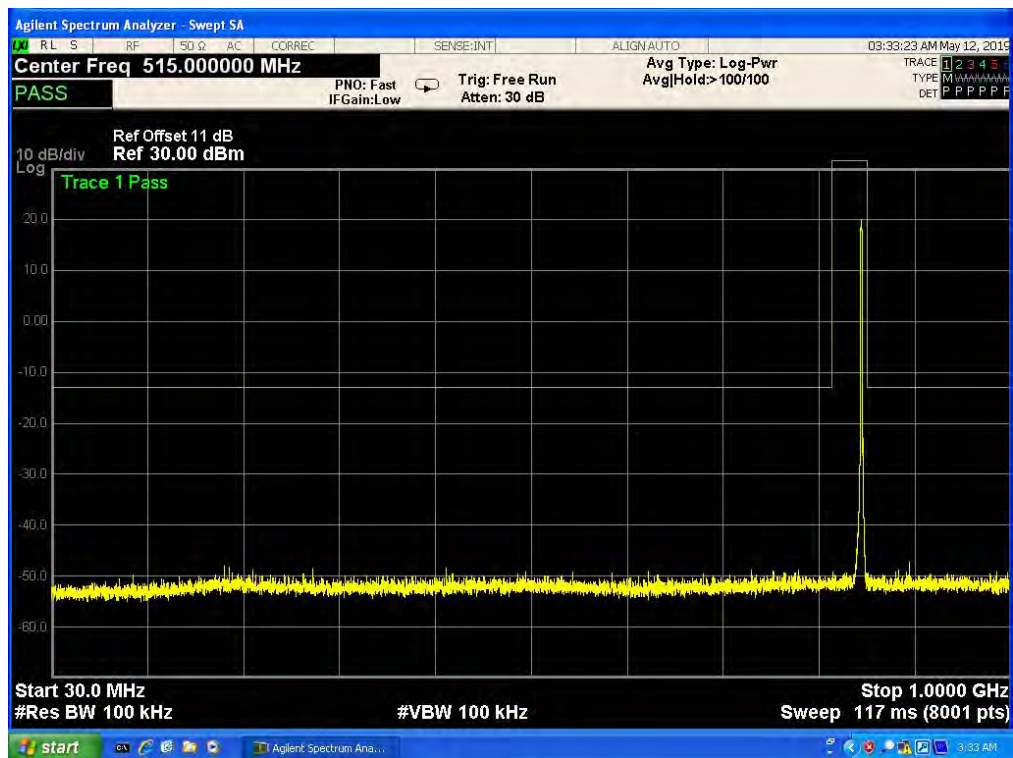
Band 5, UL Channel 20643, UL Frequency 848.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK



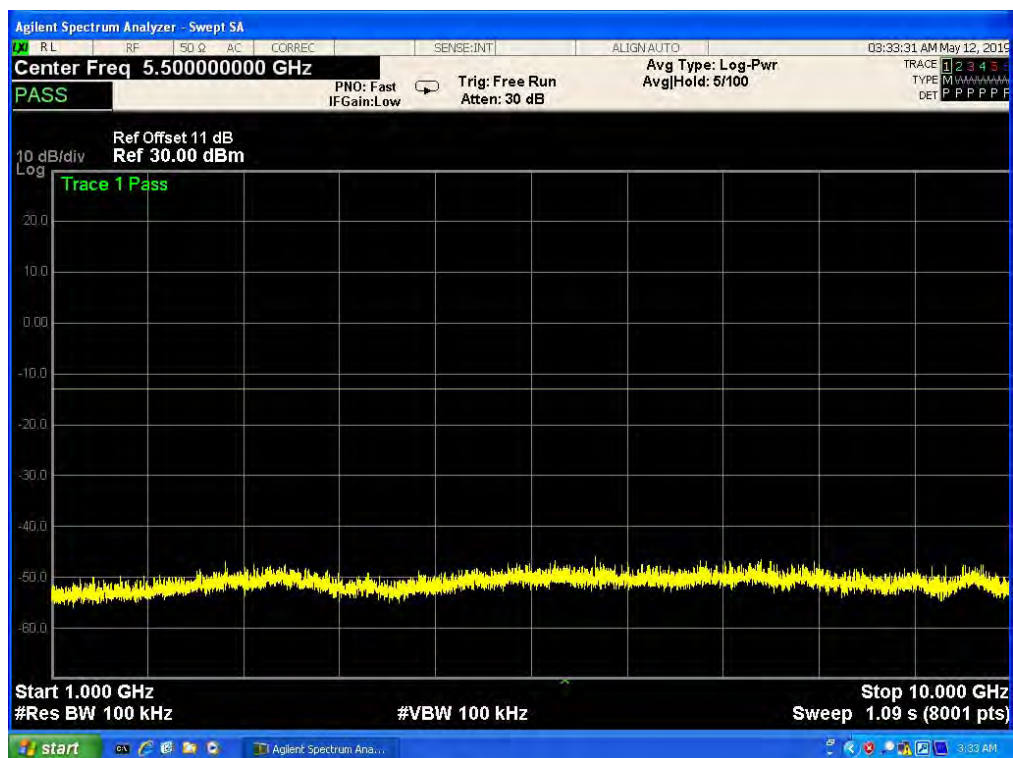
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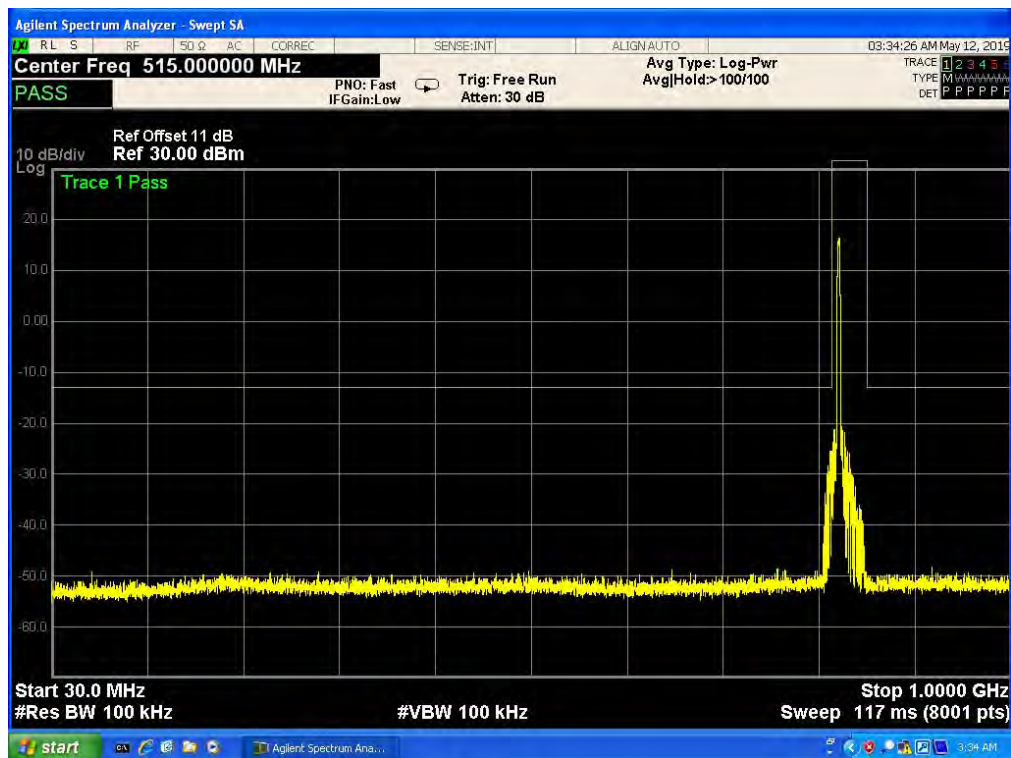
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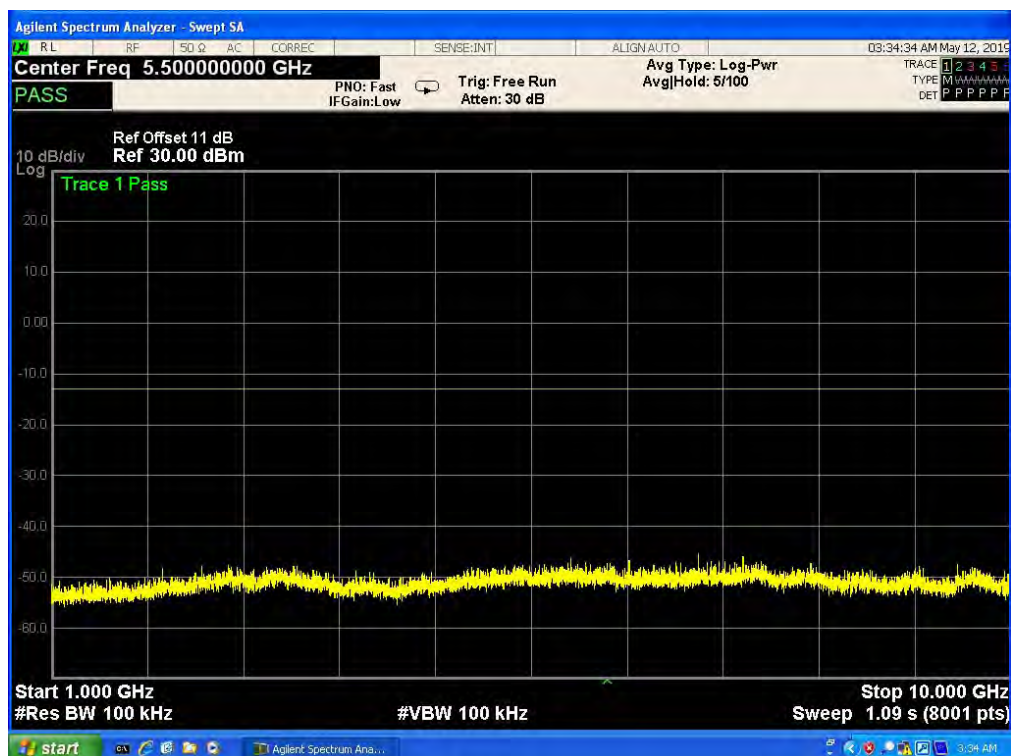
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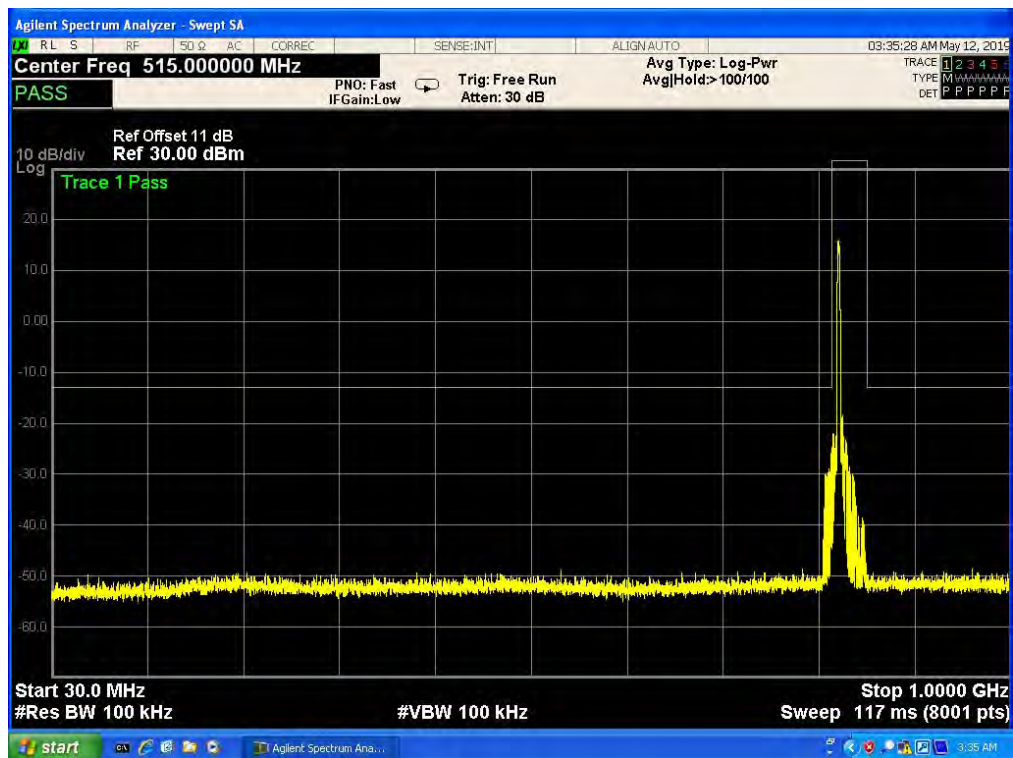
Band 5, UL Channel 20415, UL Frequency 825.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



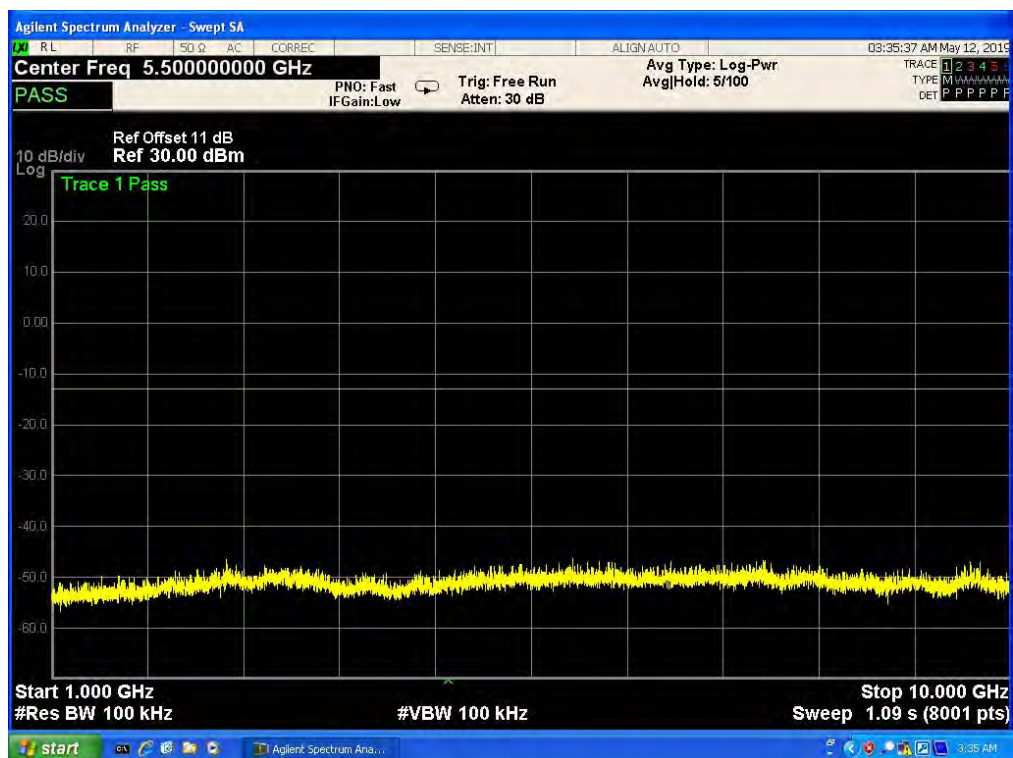
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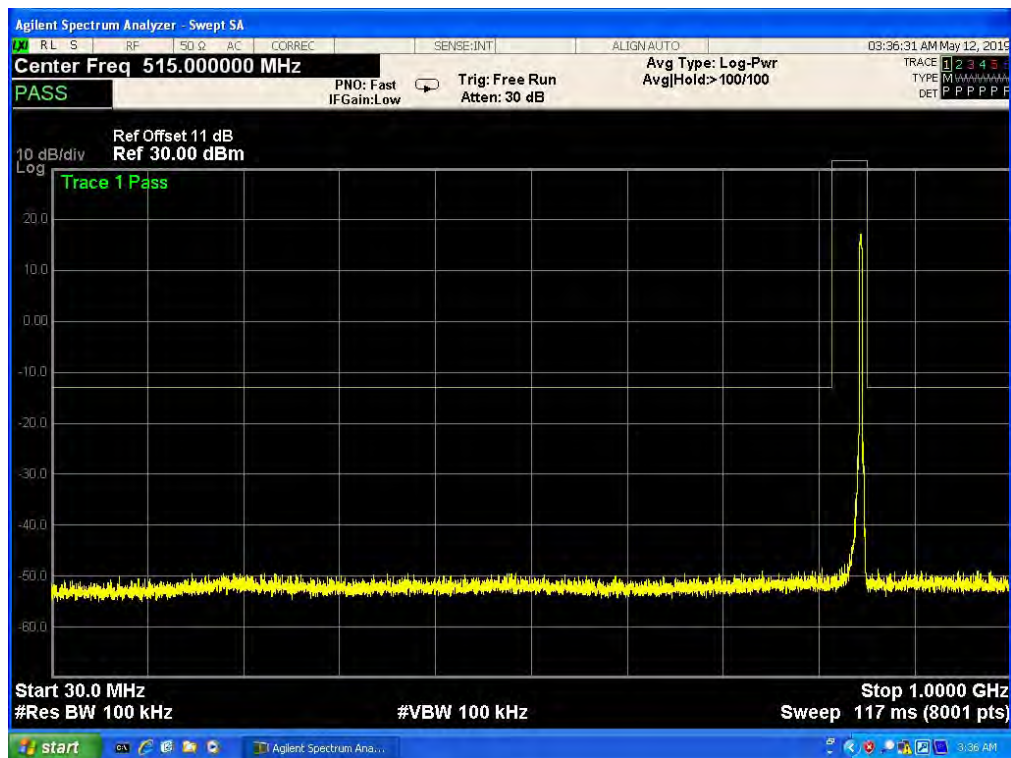
Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM



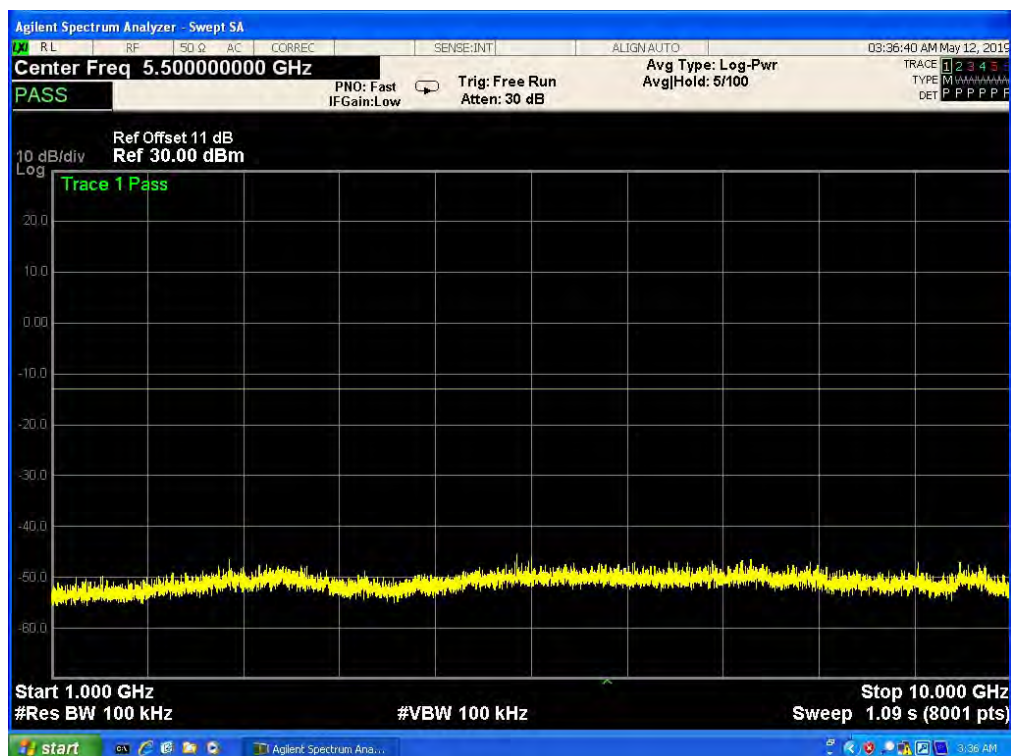
Band 5,UL Channel 20415,UL Frequency 825.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM



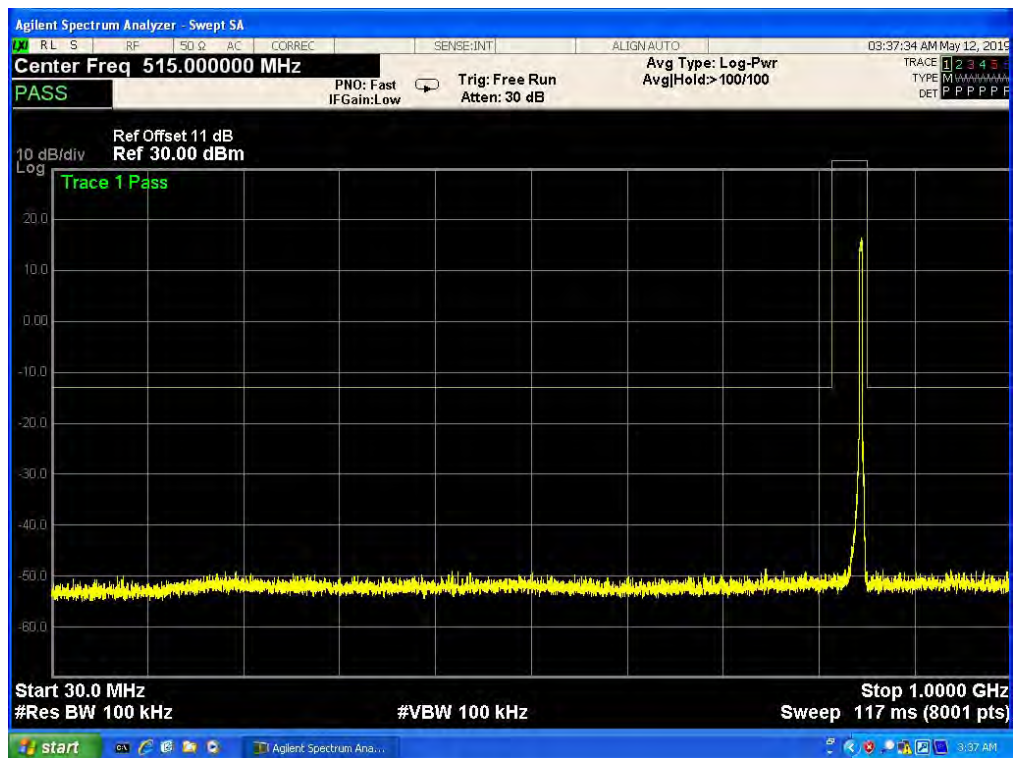
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



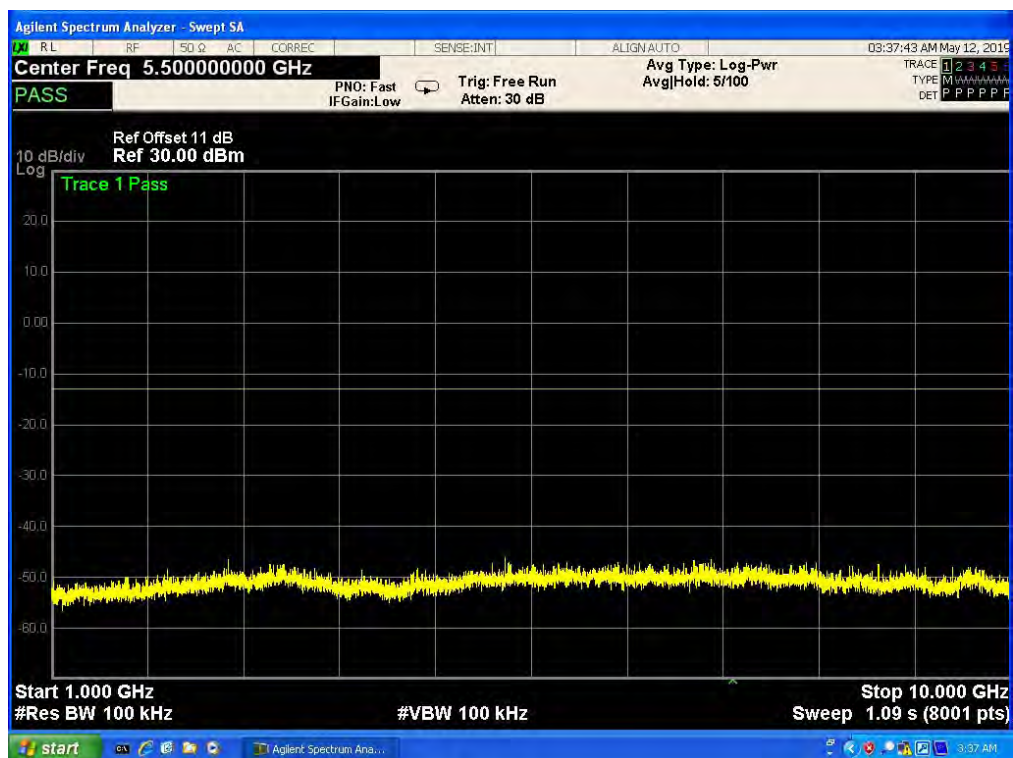
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



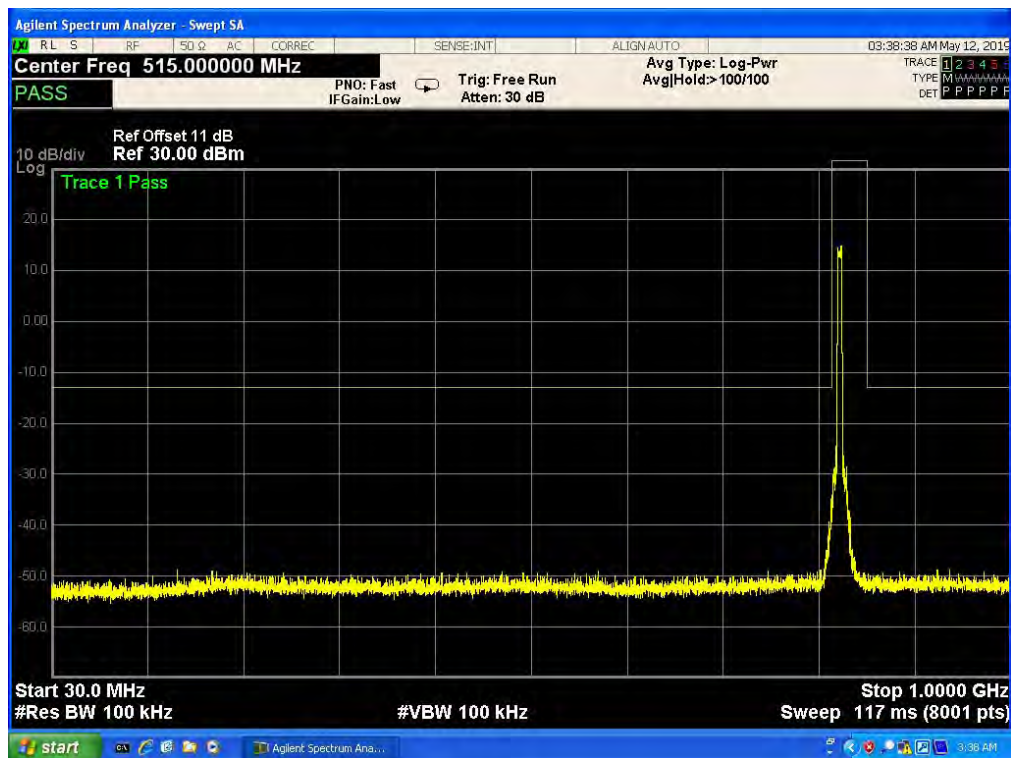
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



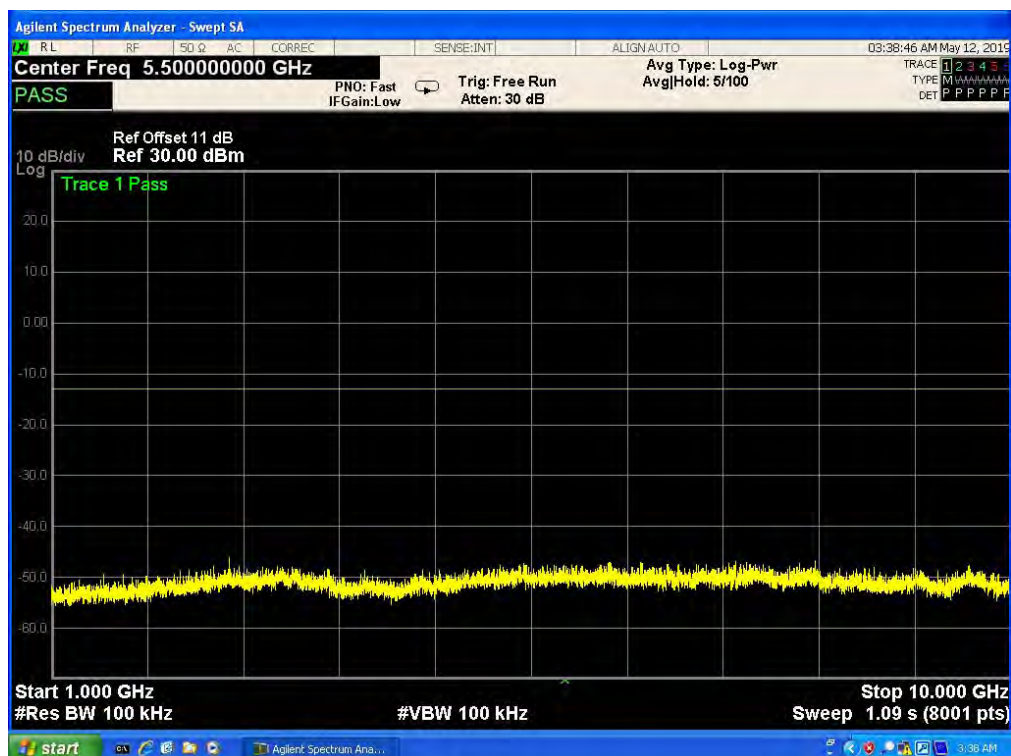
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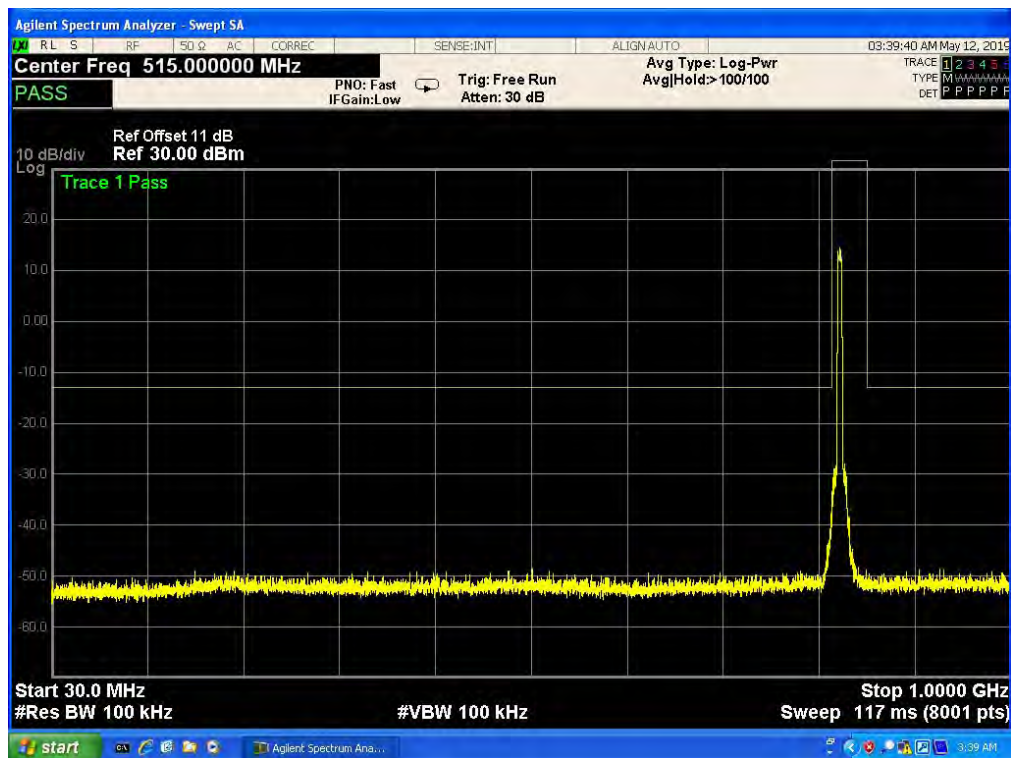
Band 5, UL Channel 20425, UL Frequency 826.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



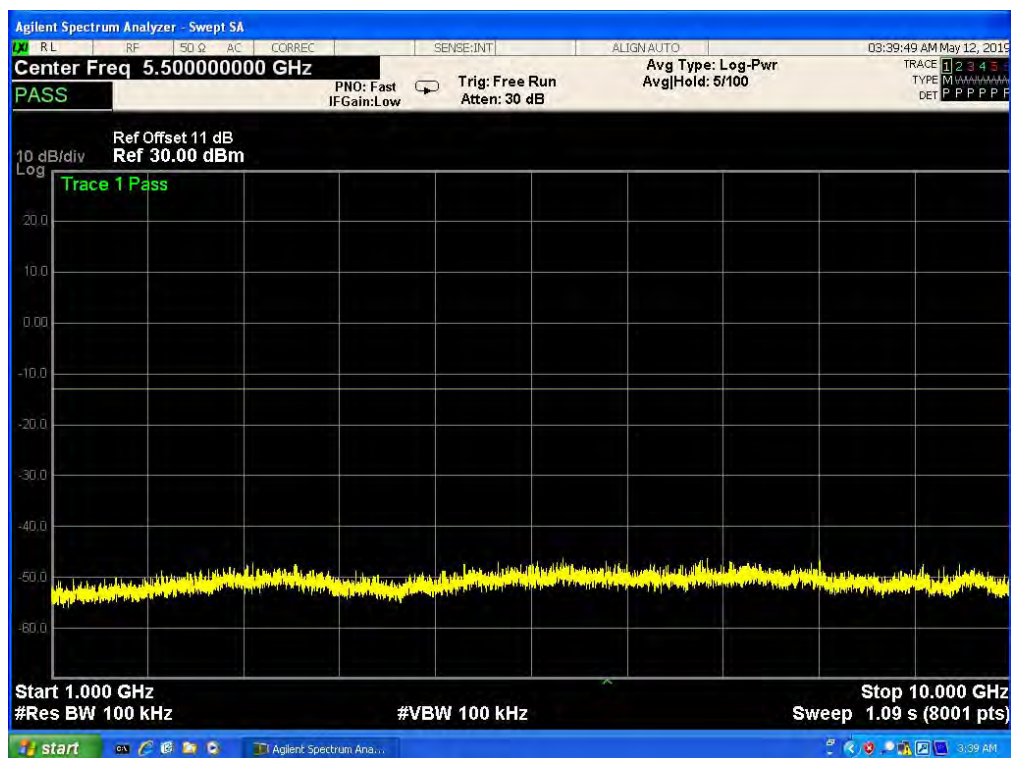
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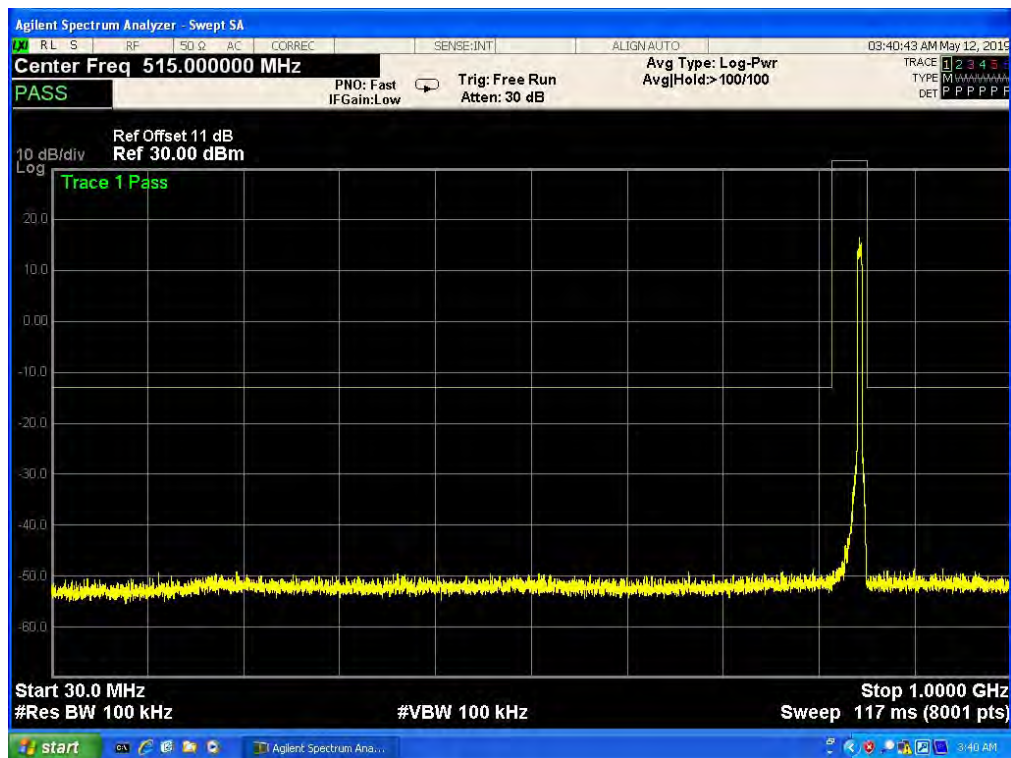
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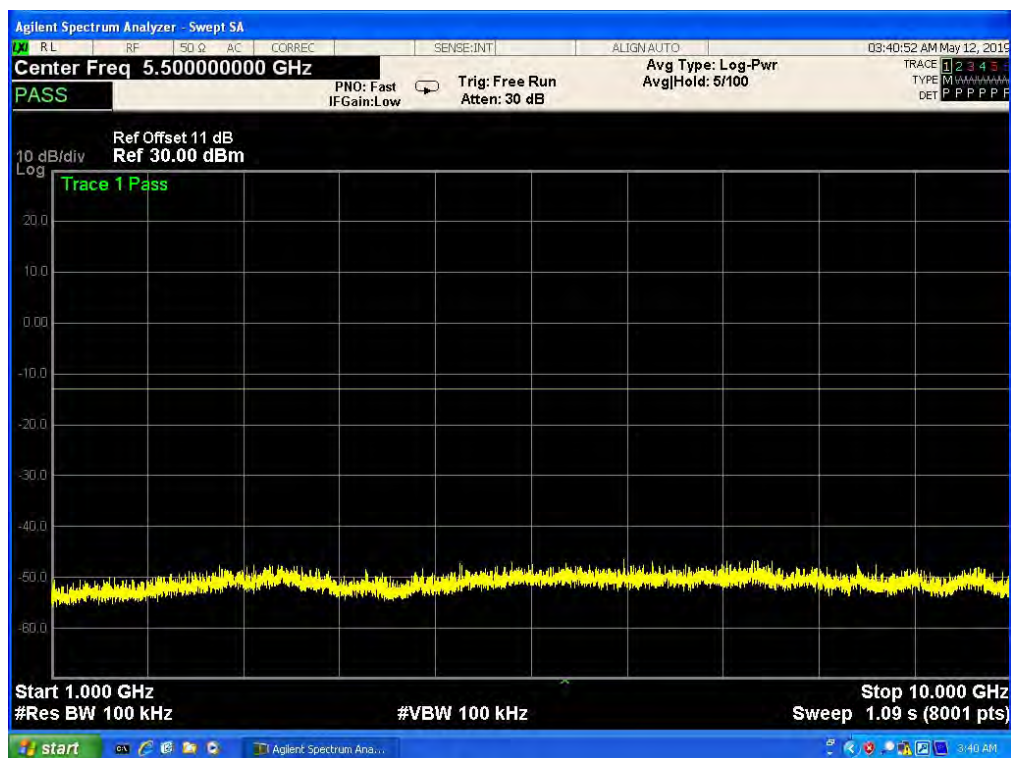
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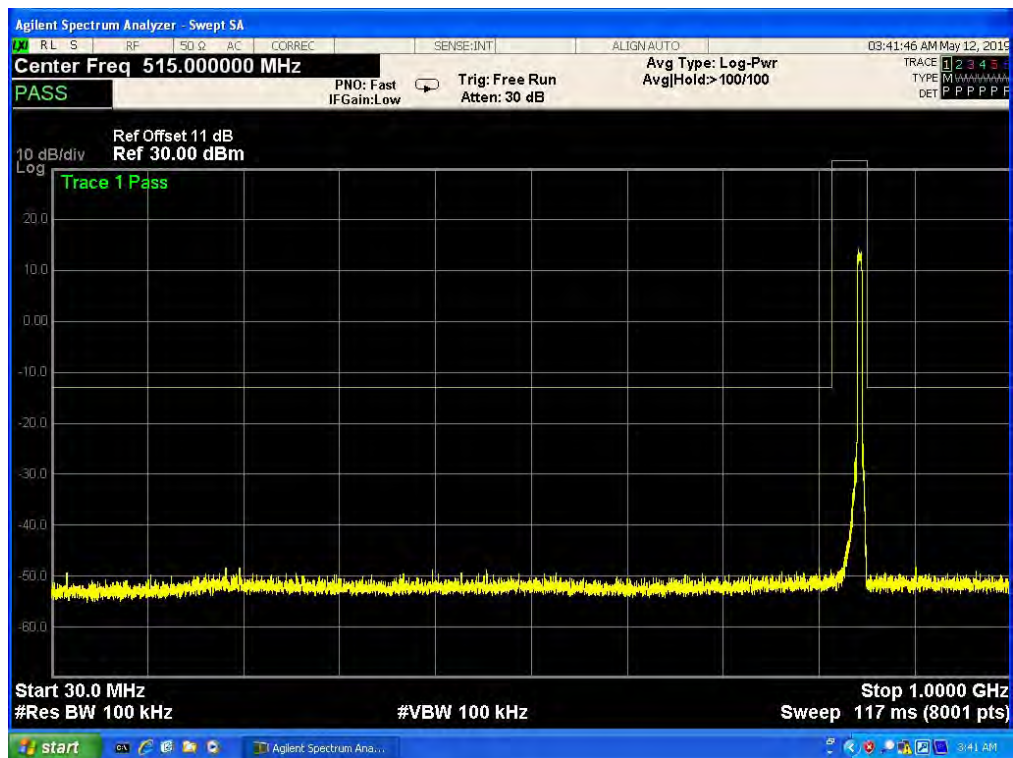
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



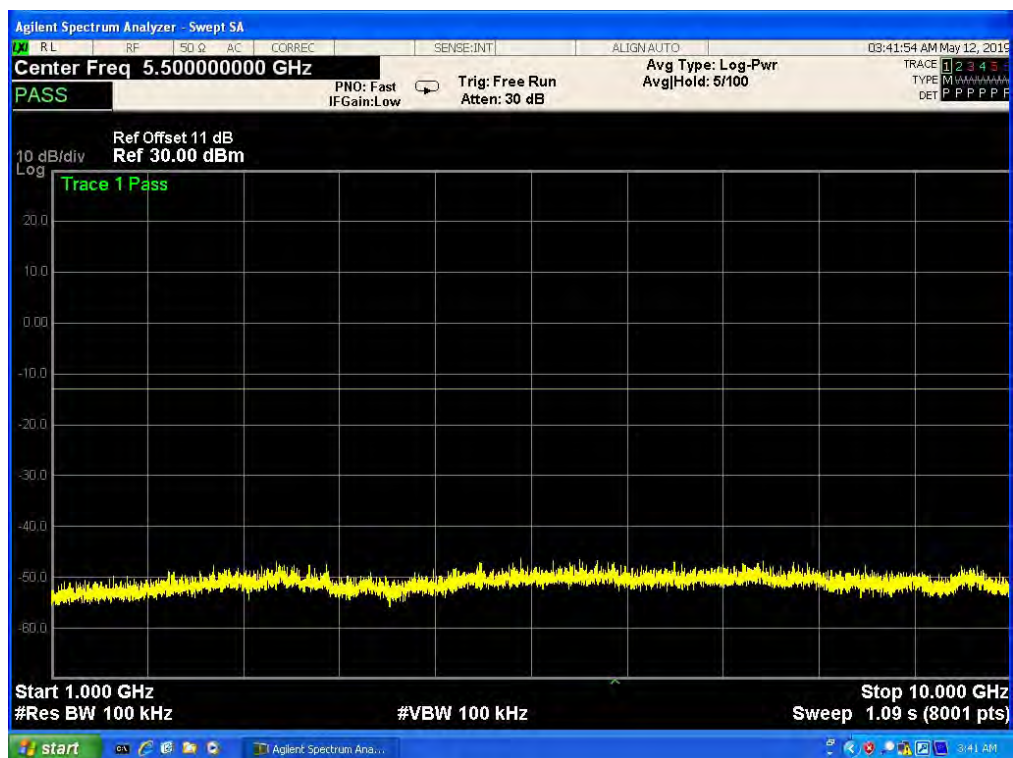
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



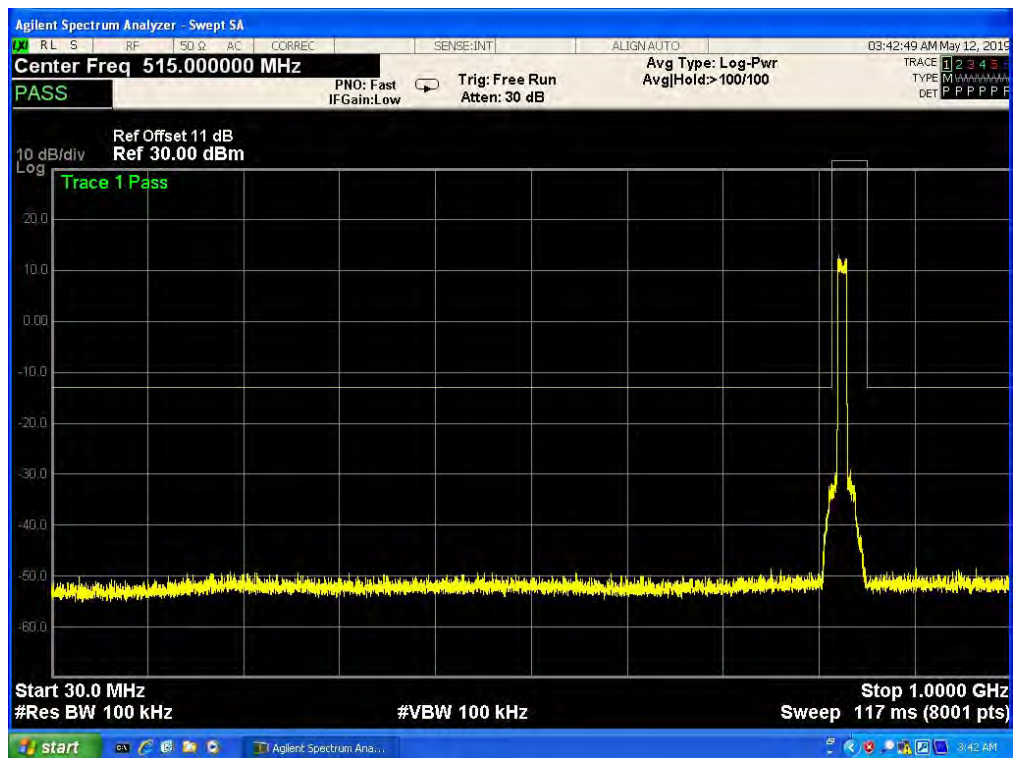
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



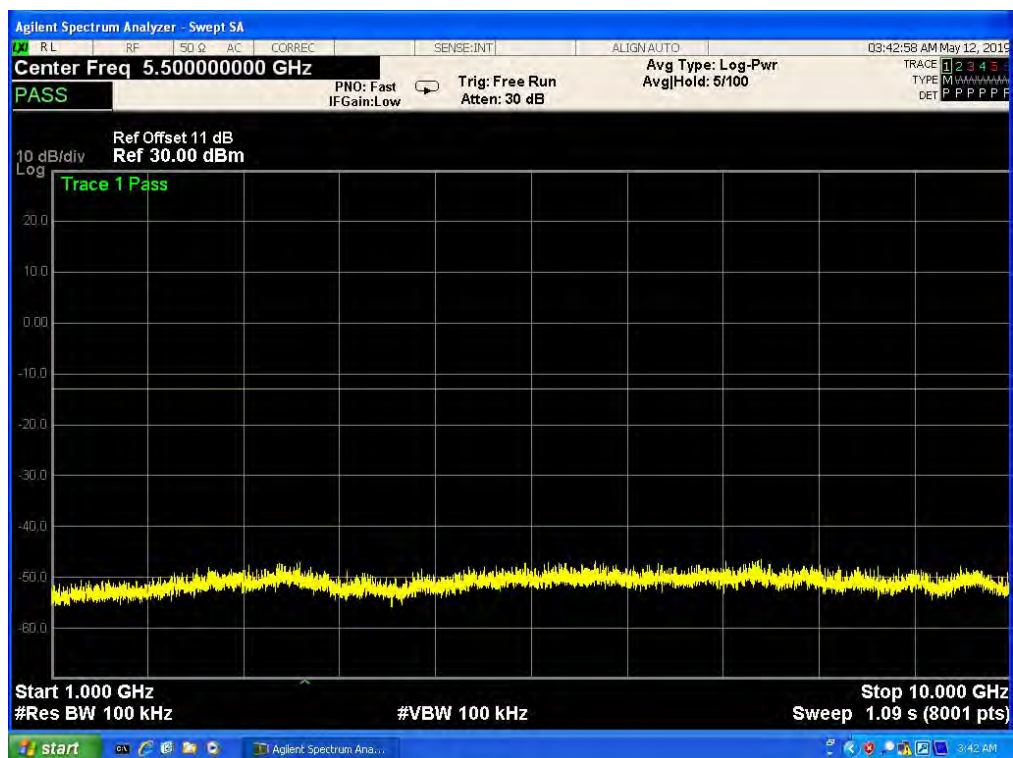
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



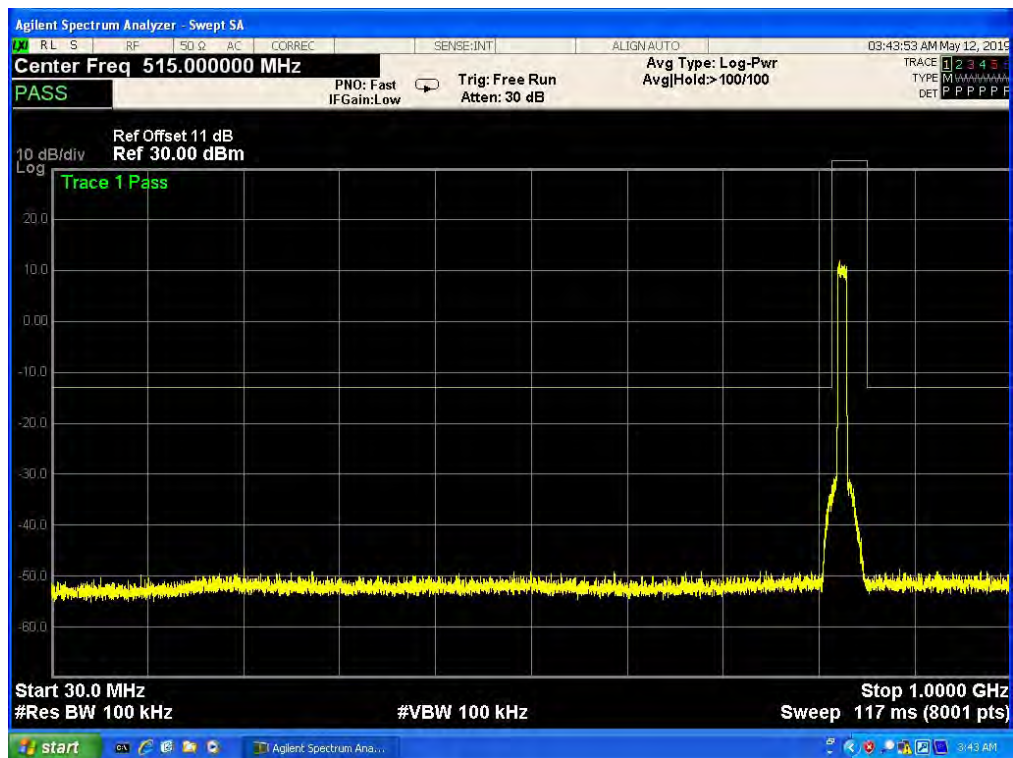
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



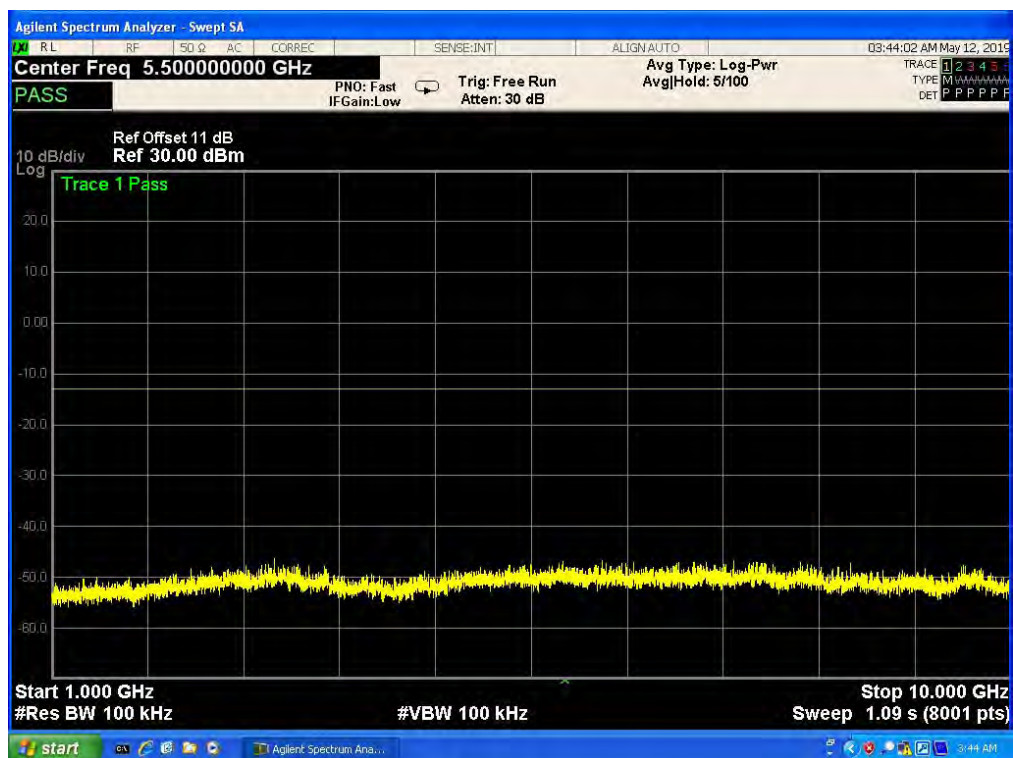
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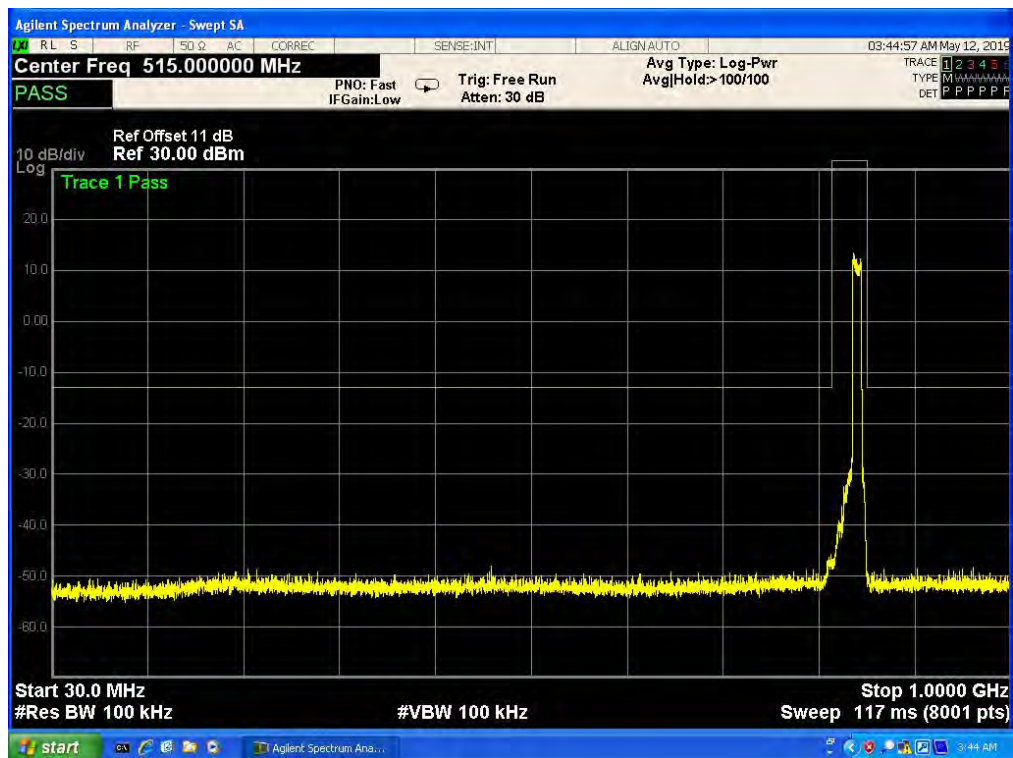
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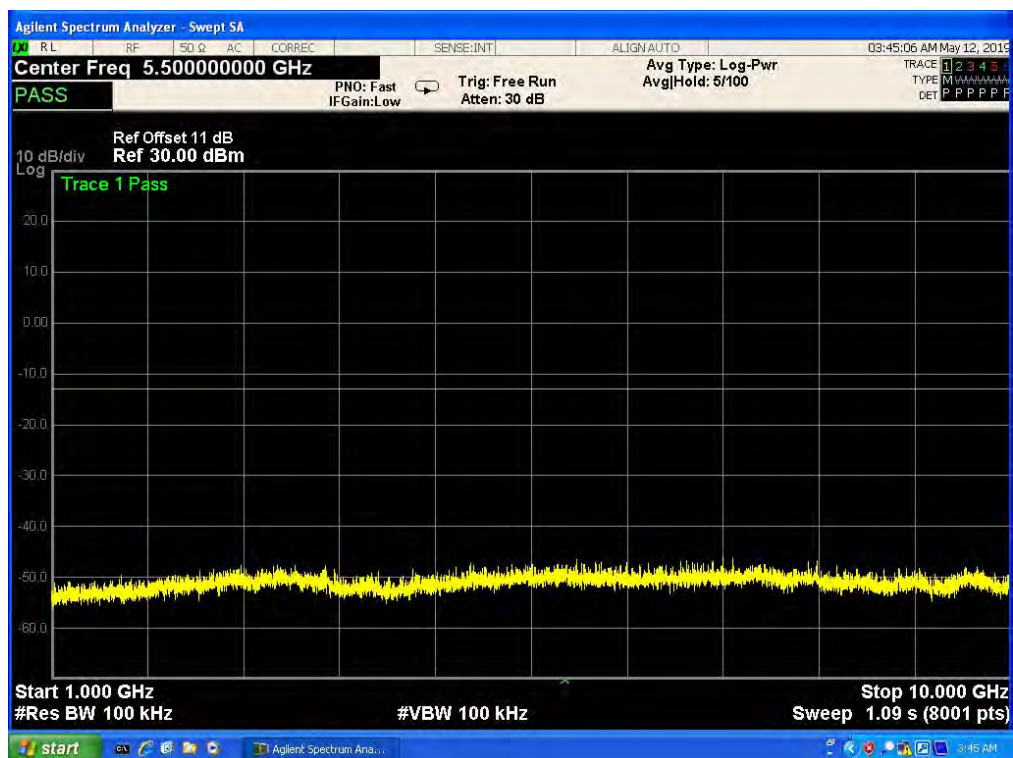
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



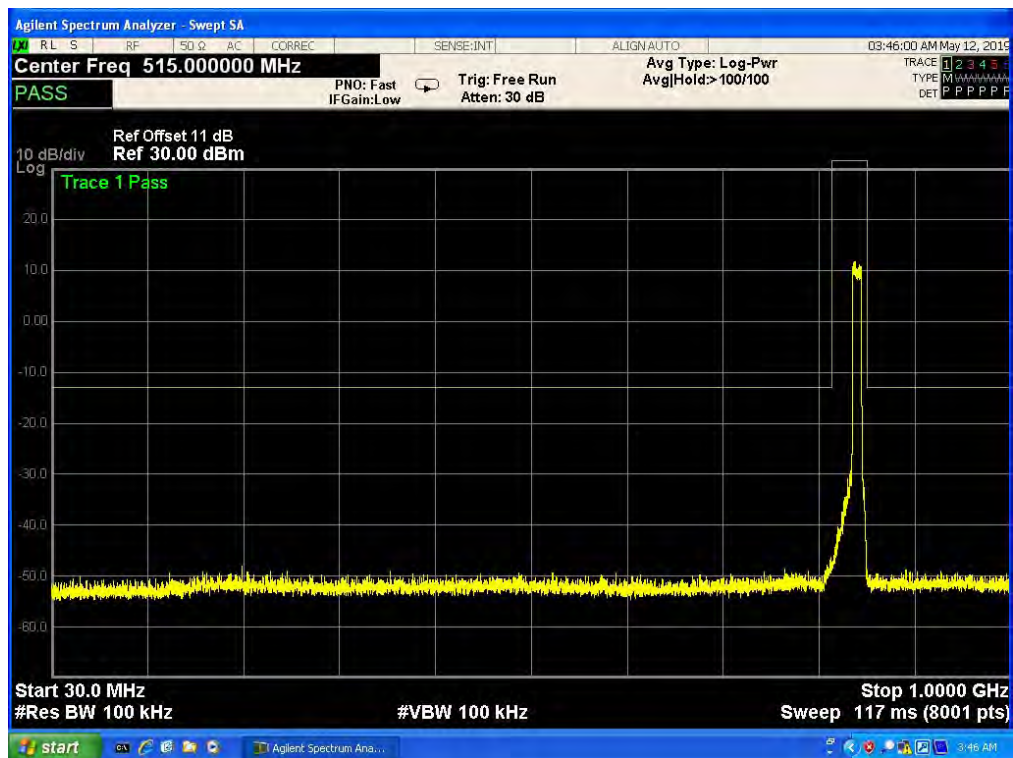
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



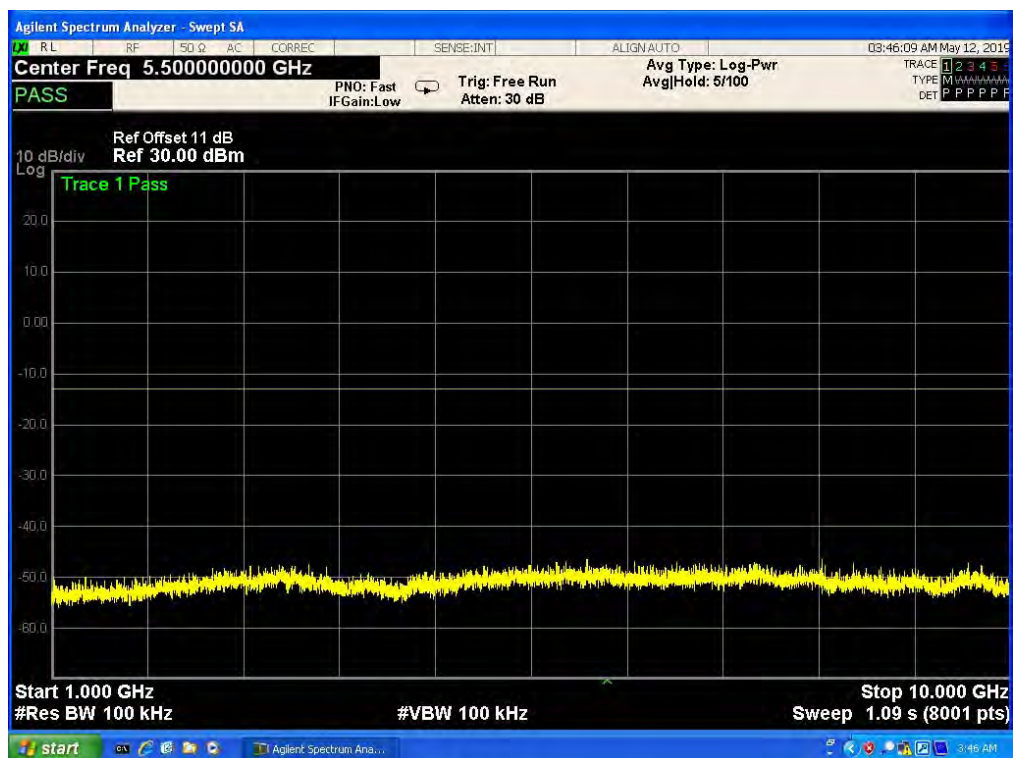
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



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

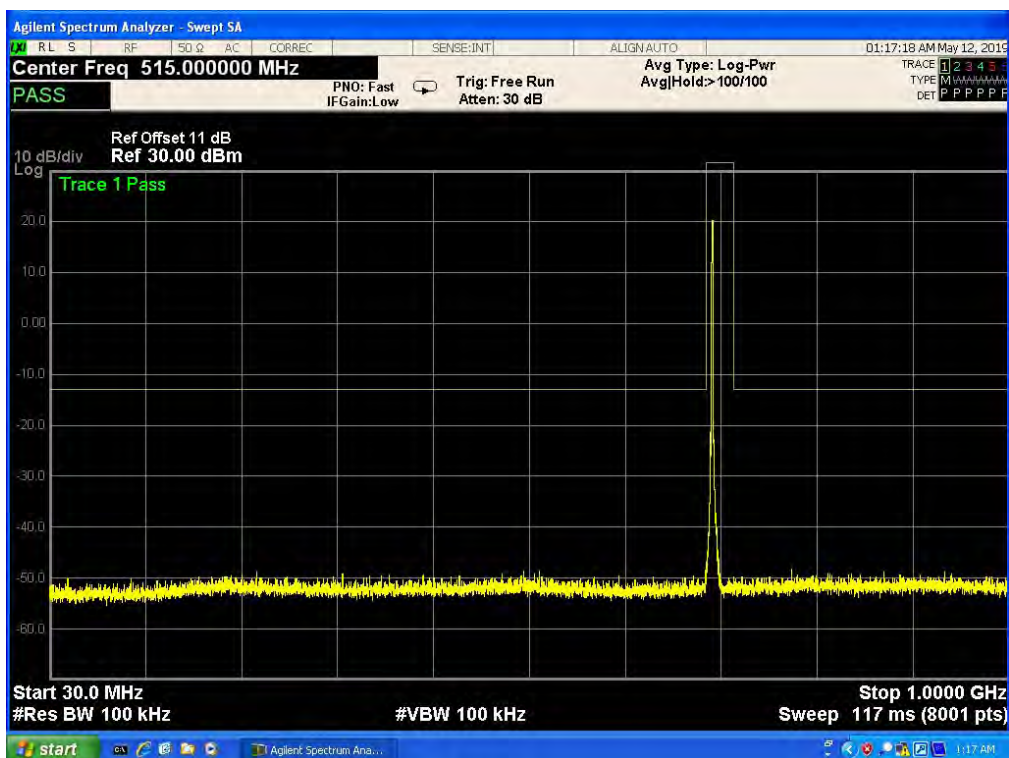


Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

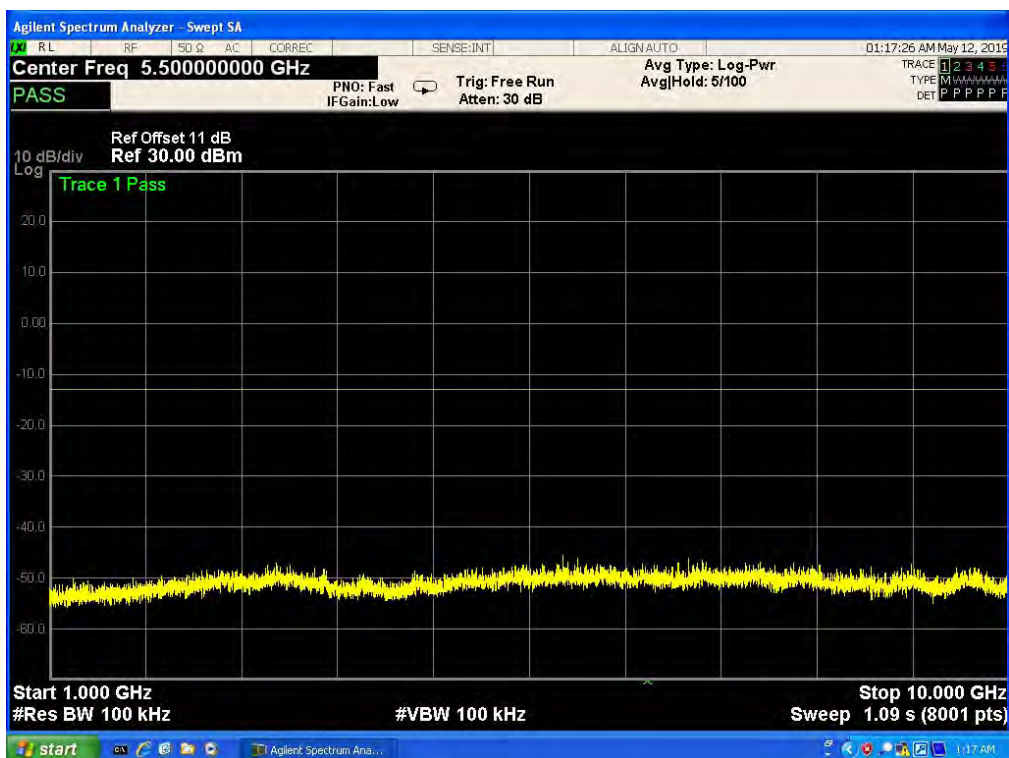


7.4 LTE BAND 12

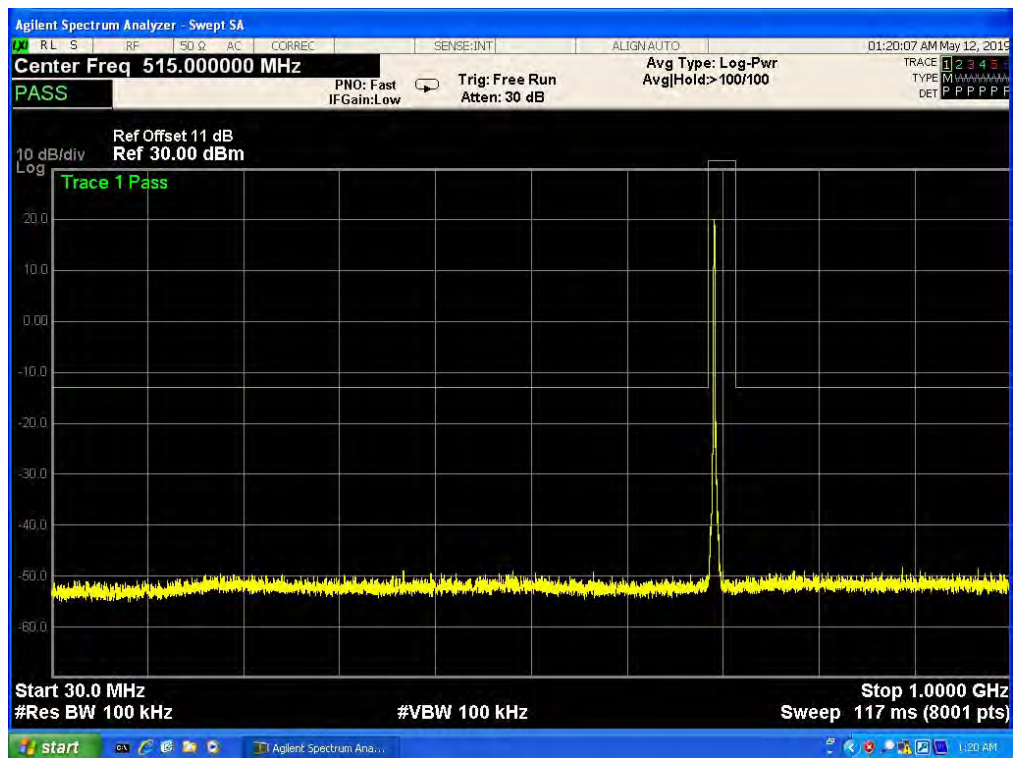
Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



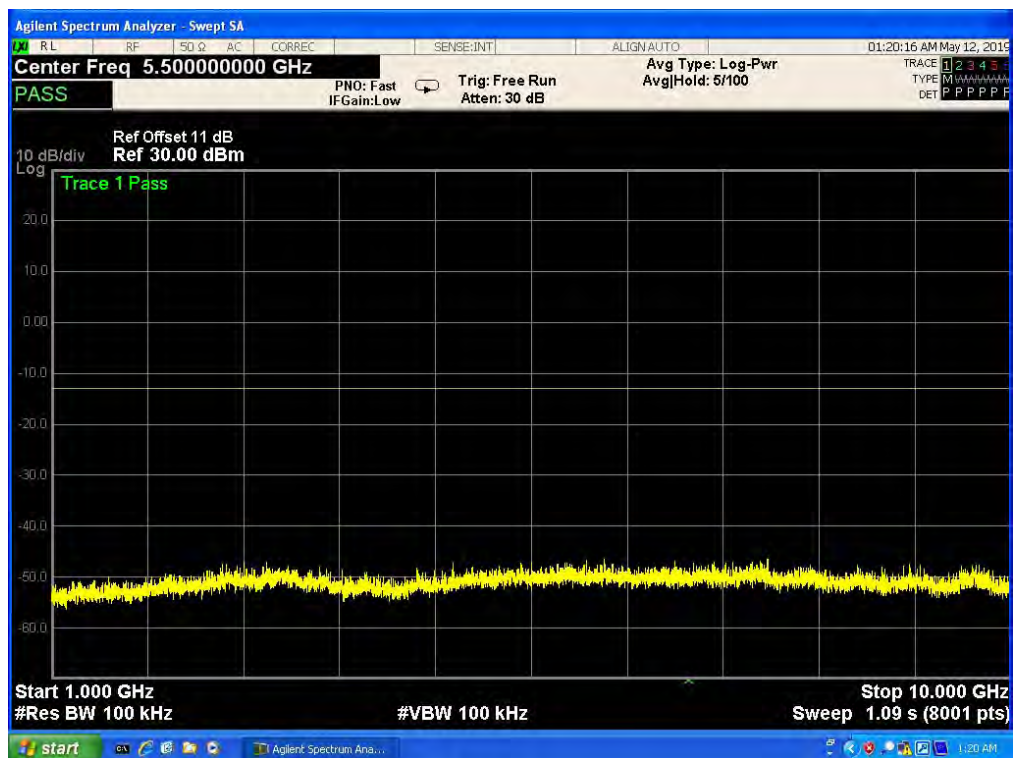
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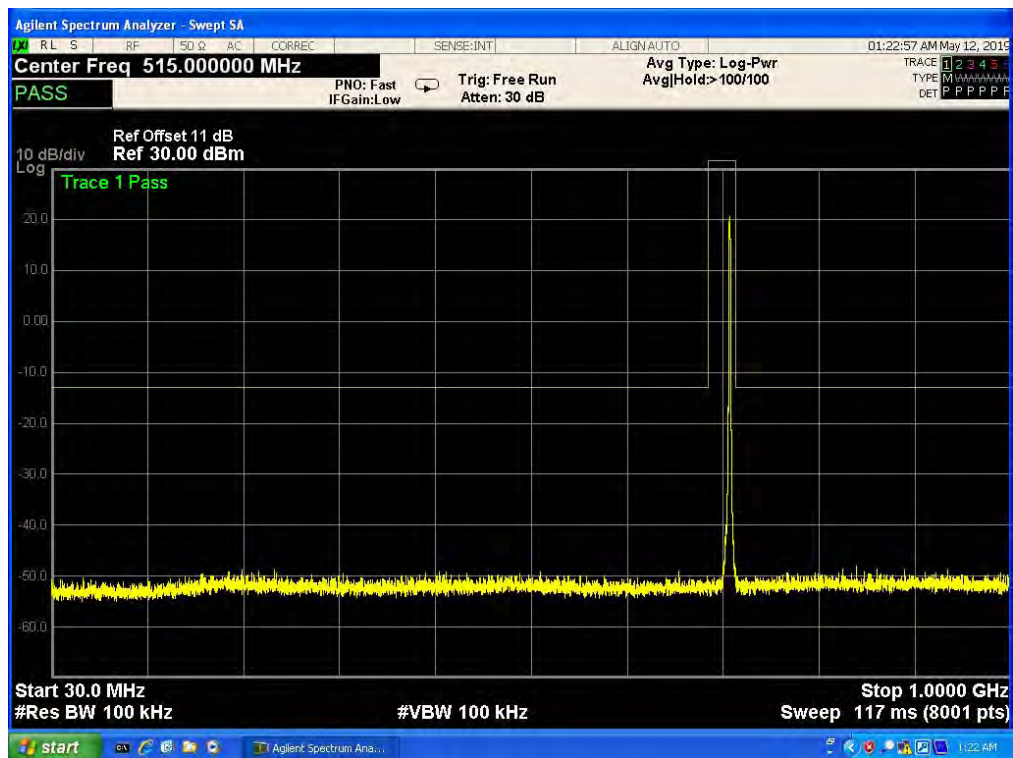
Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



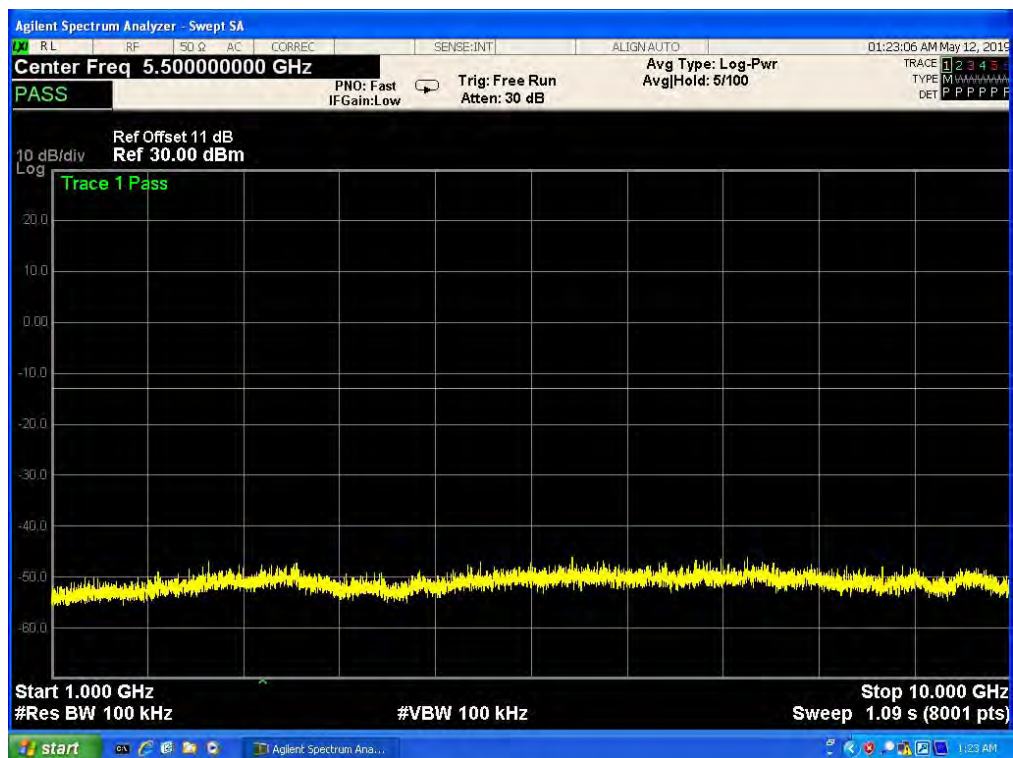
Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



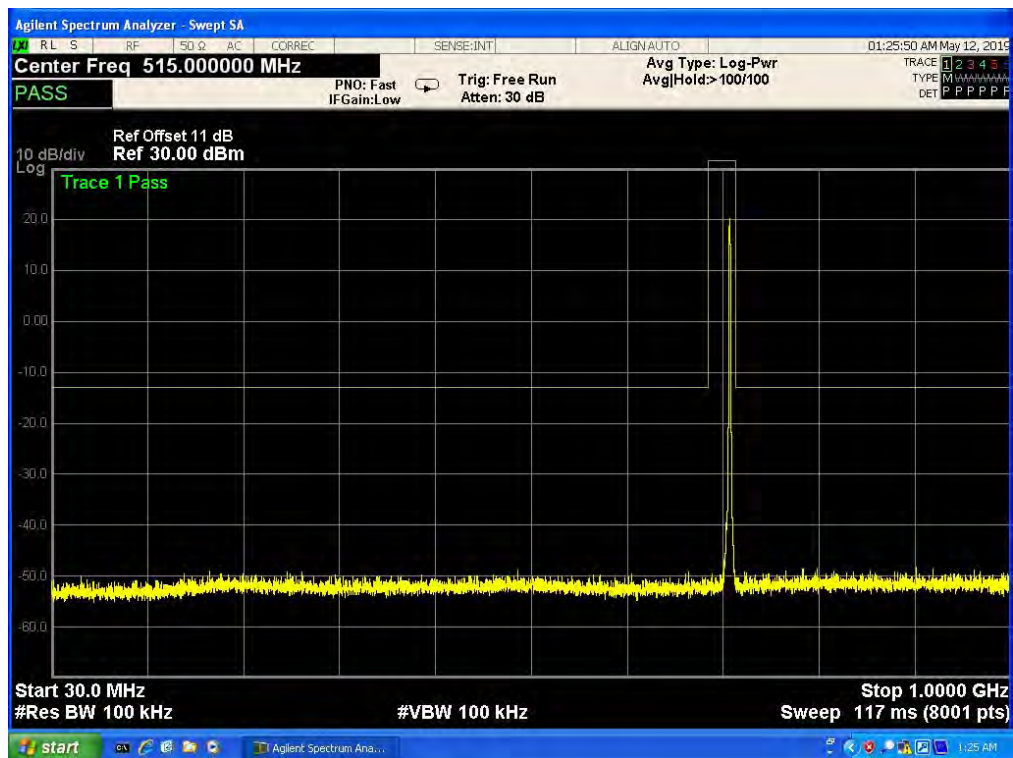
Band 12, UL Channel 23173, UL Frequency 715.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK



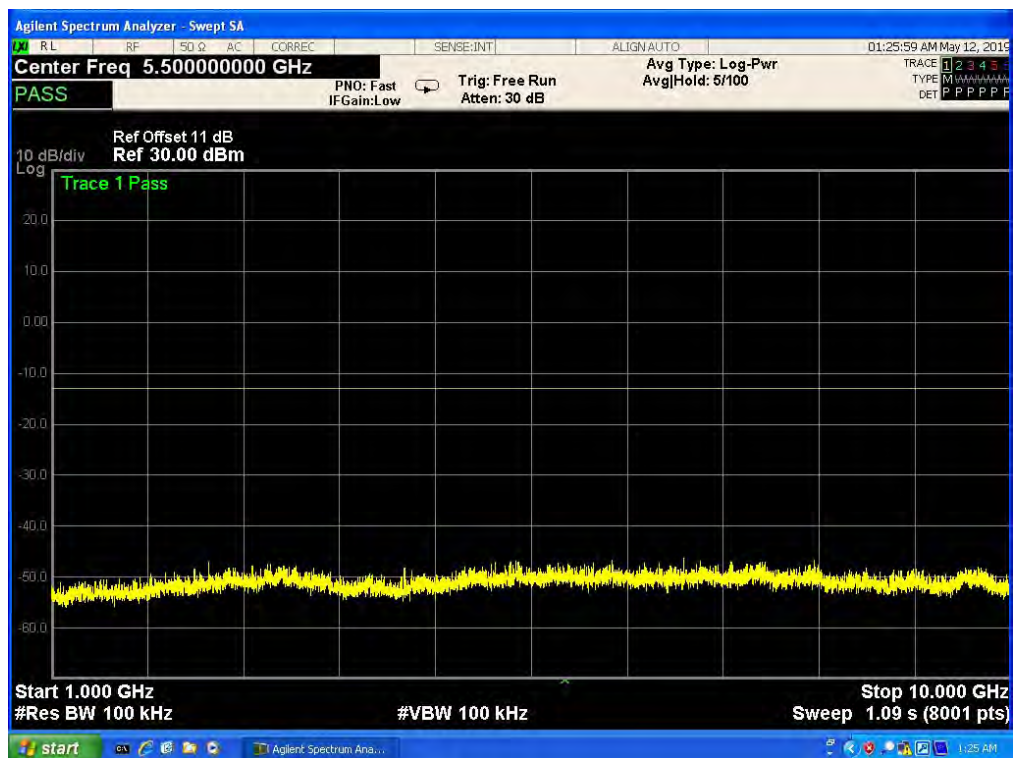
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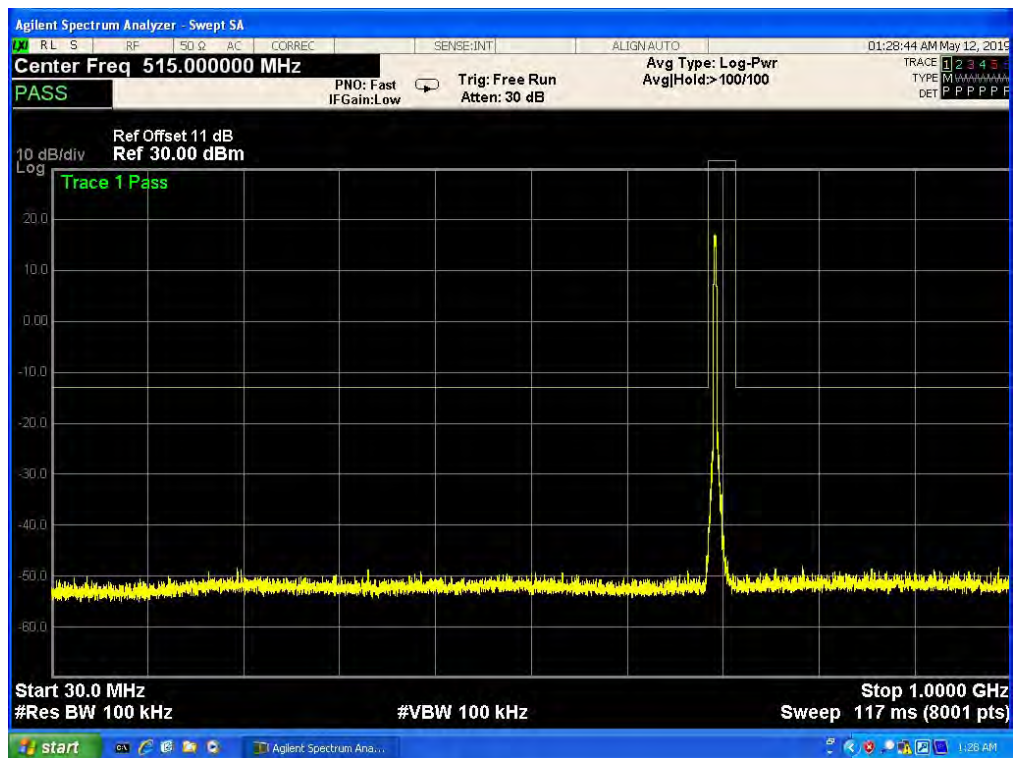
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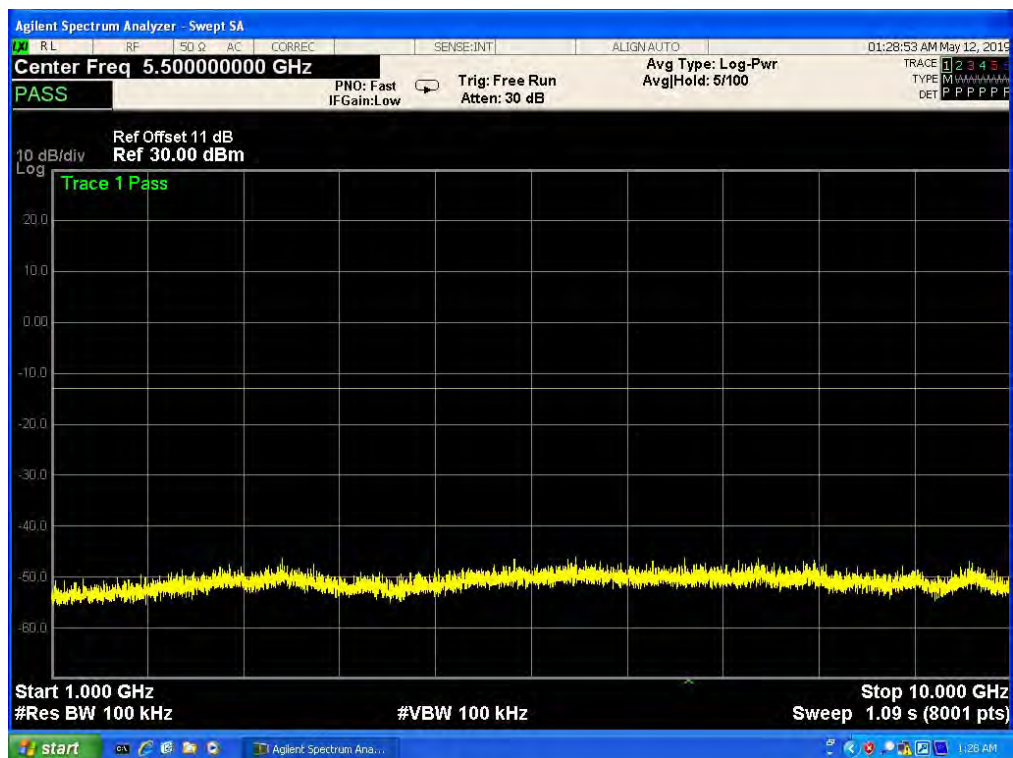
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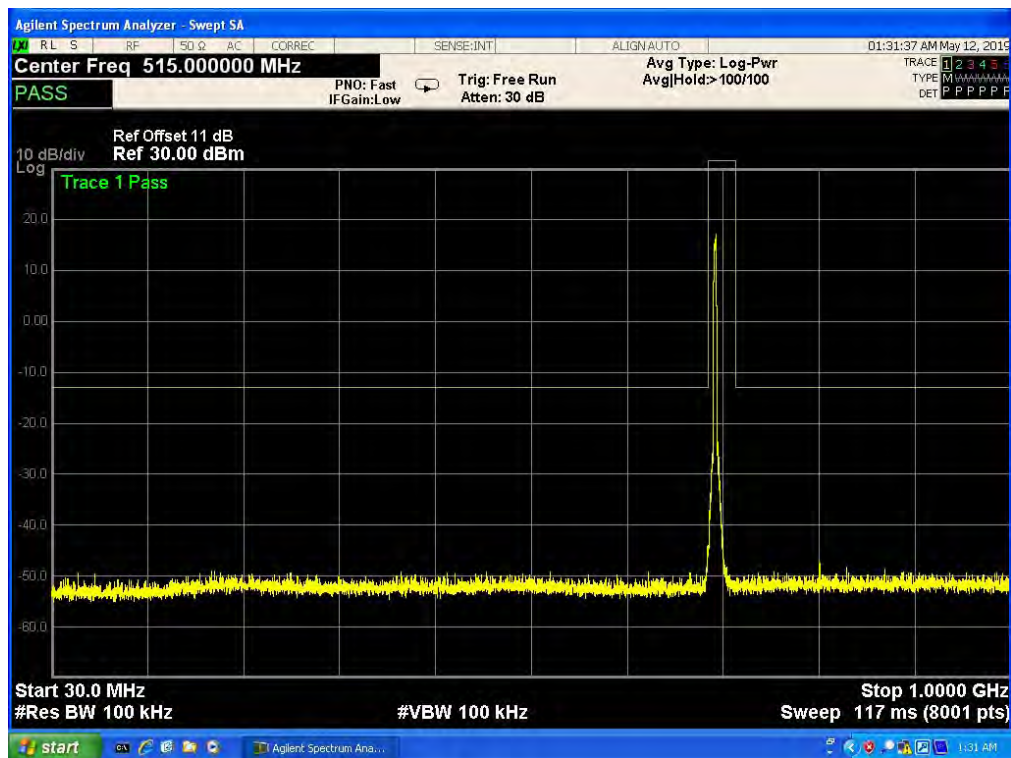
Band 12, UL Channel 23025, UL Frequency 700.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



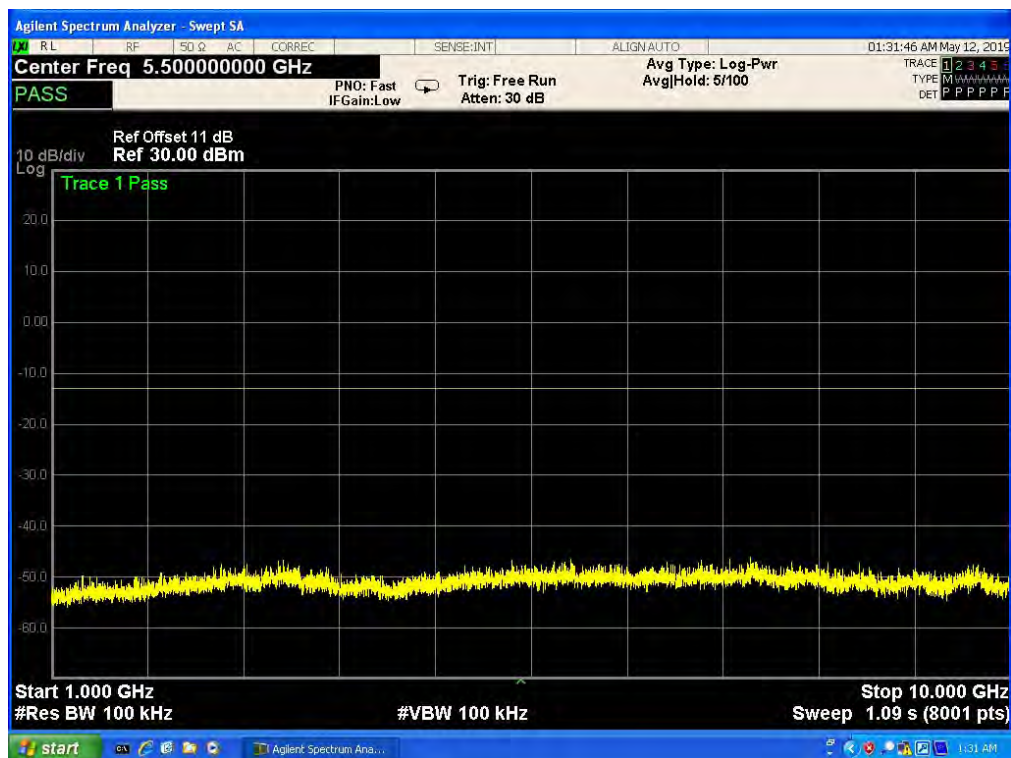
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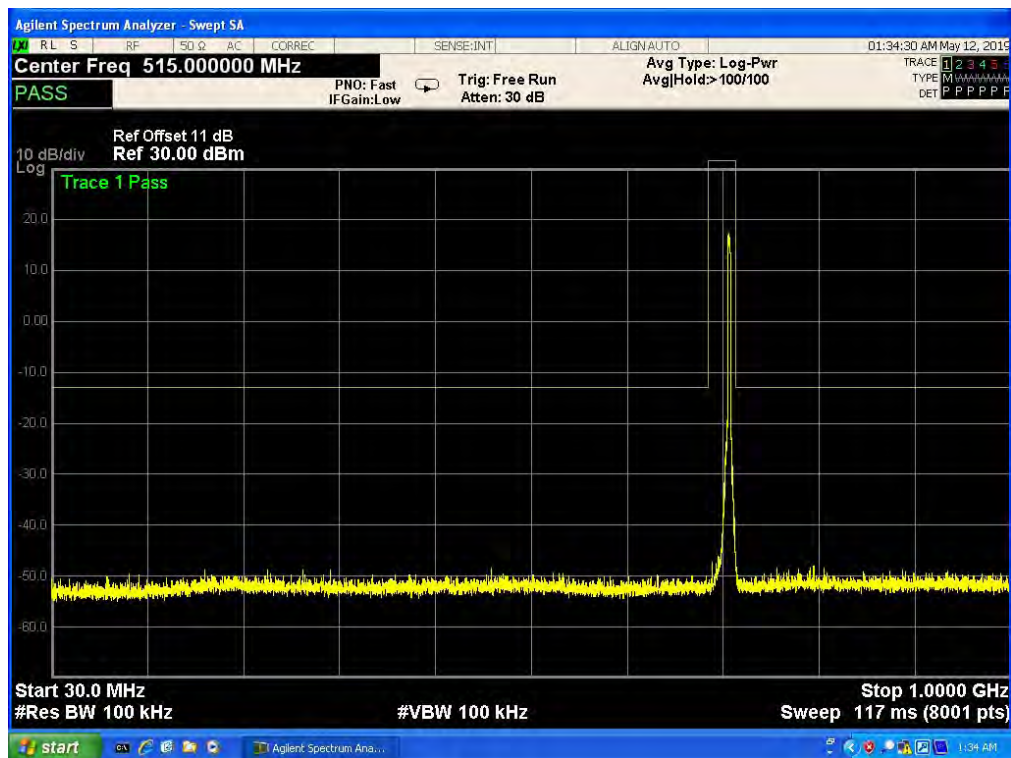
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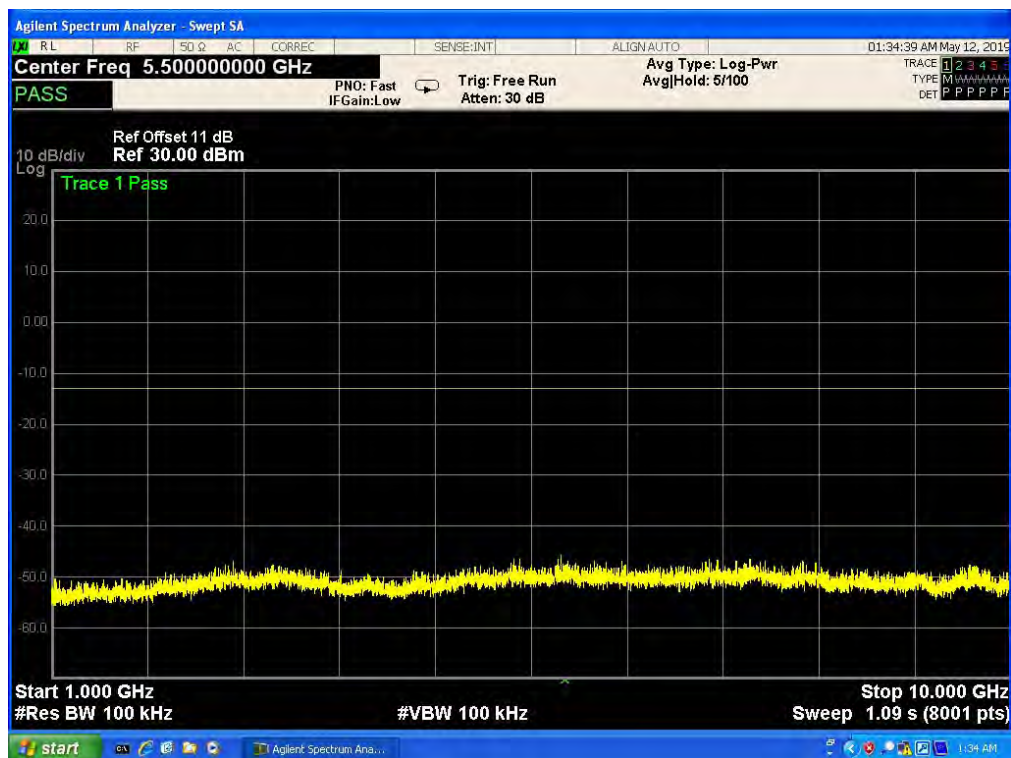
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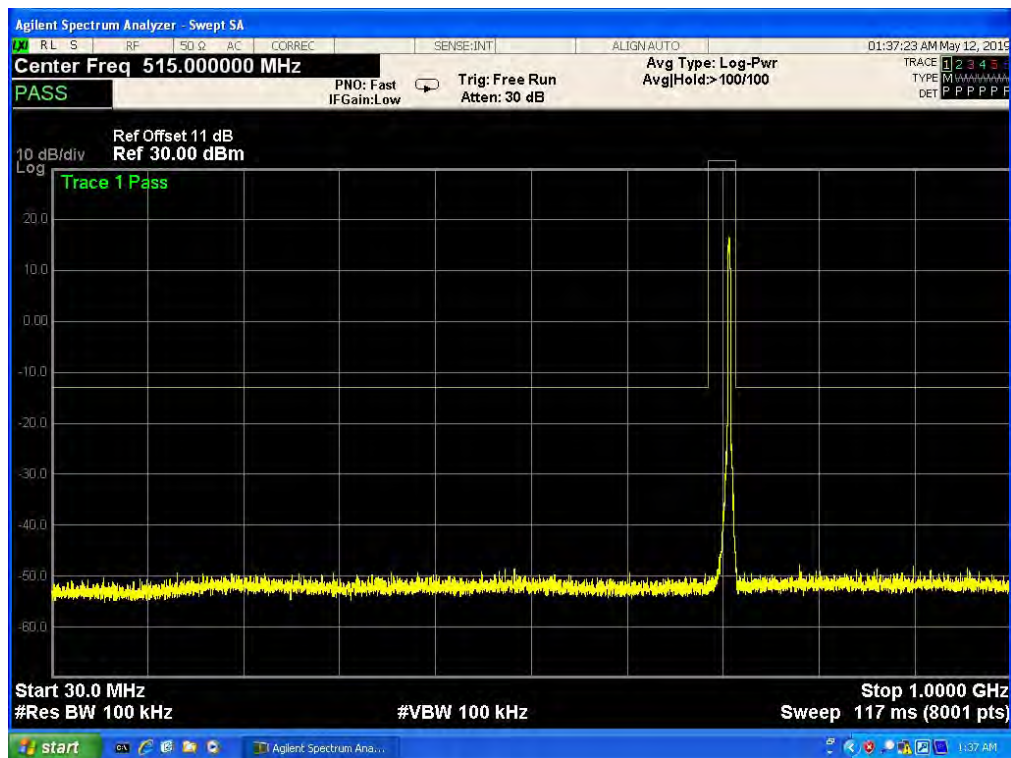
Band 12, UL Channel 23165, UL Frequency 714.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



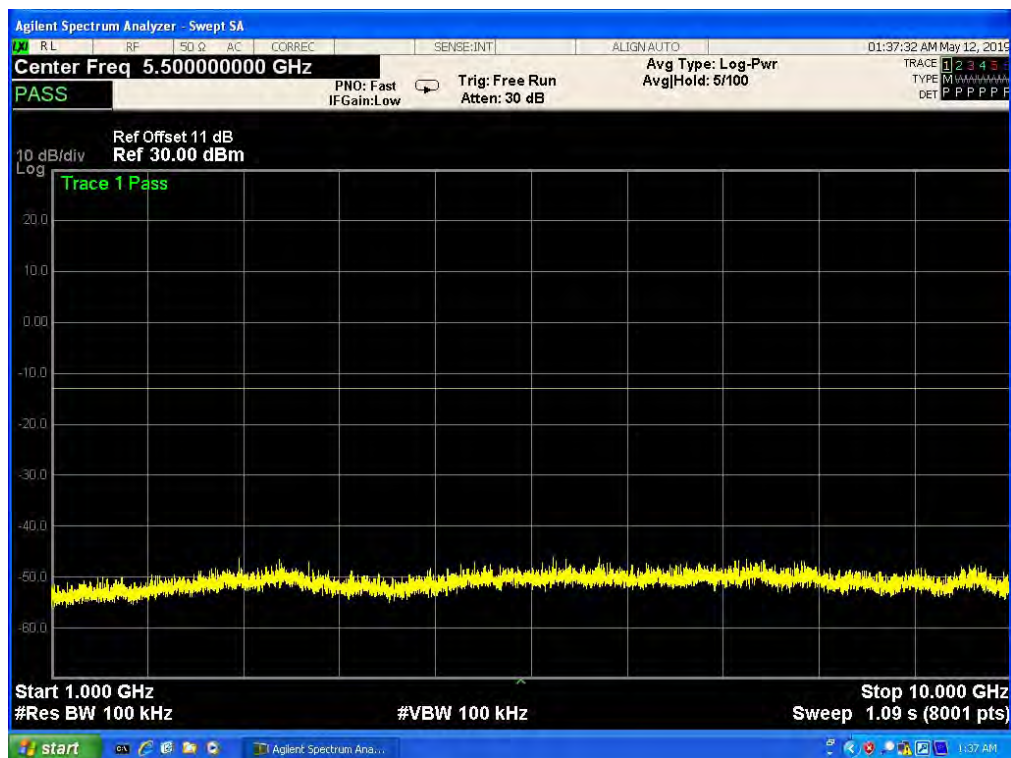
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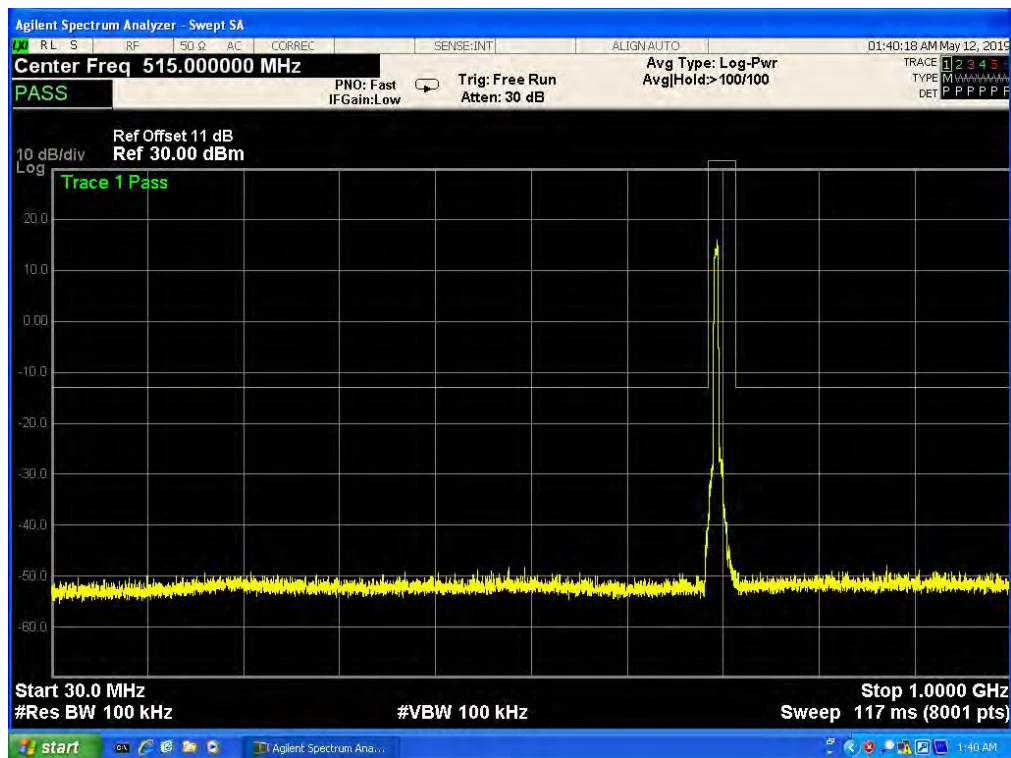
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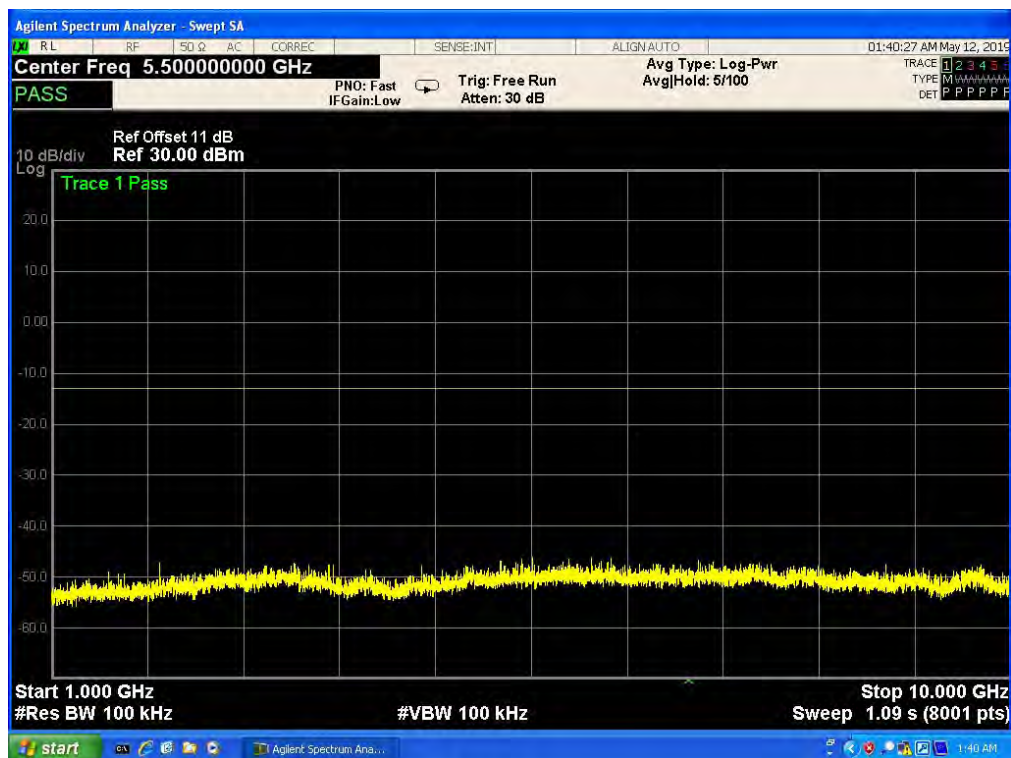
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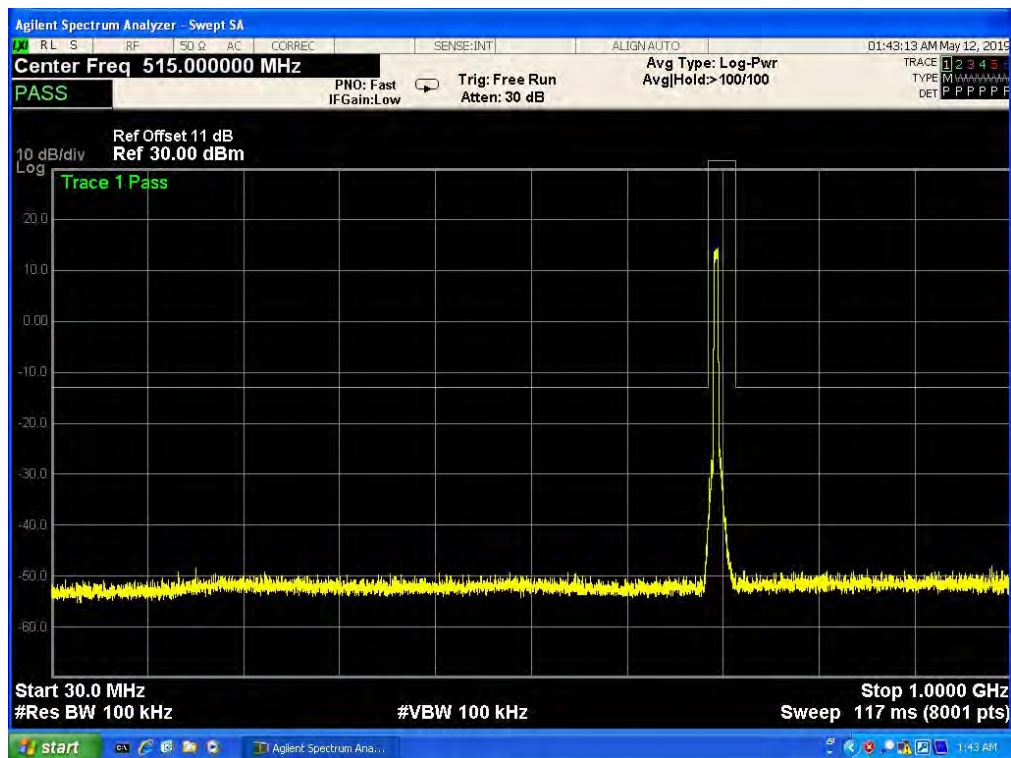
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



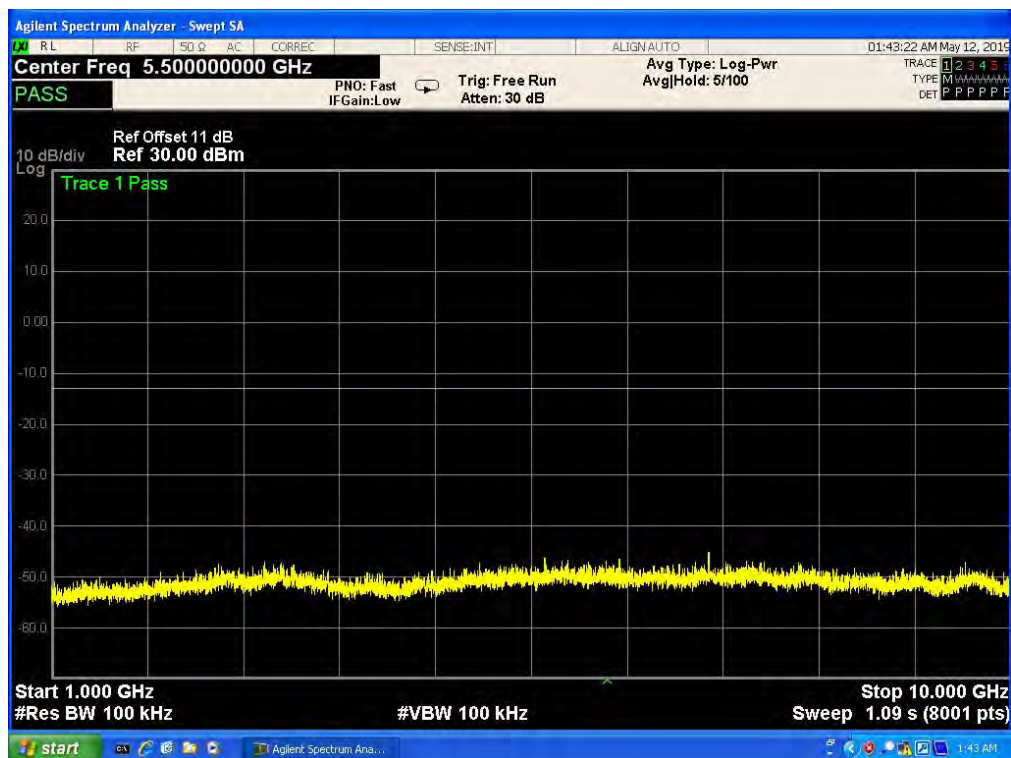
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



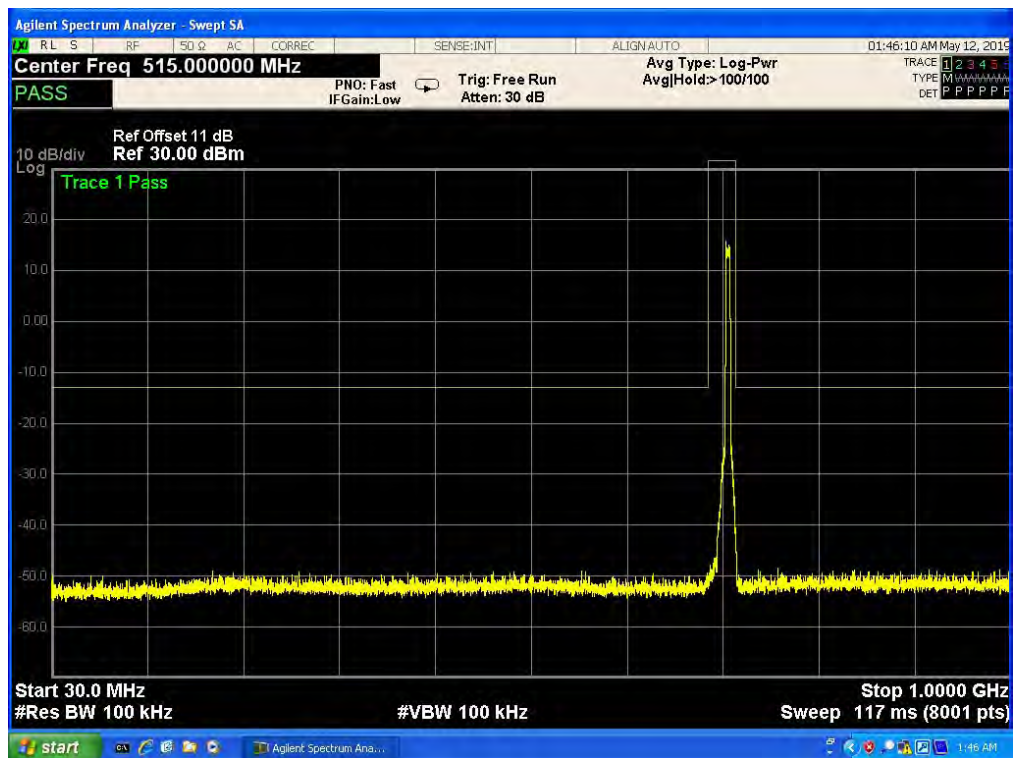
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



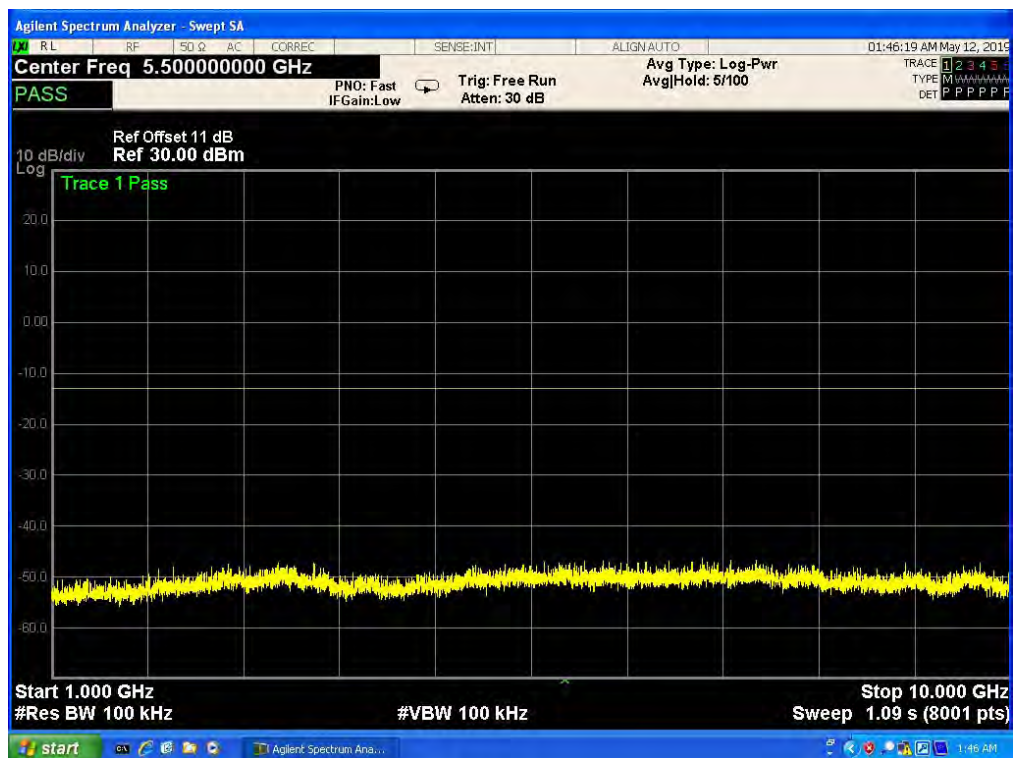
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



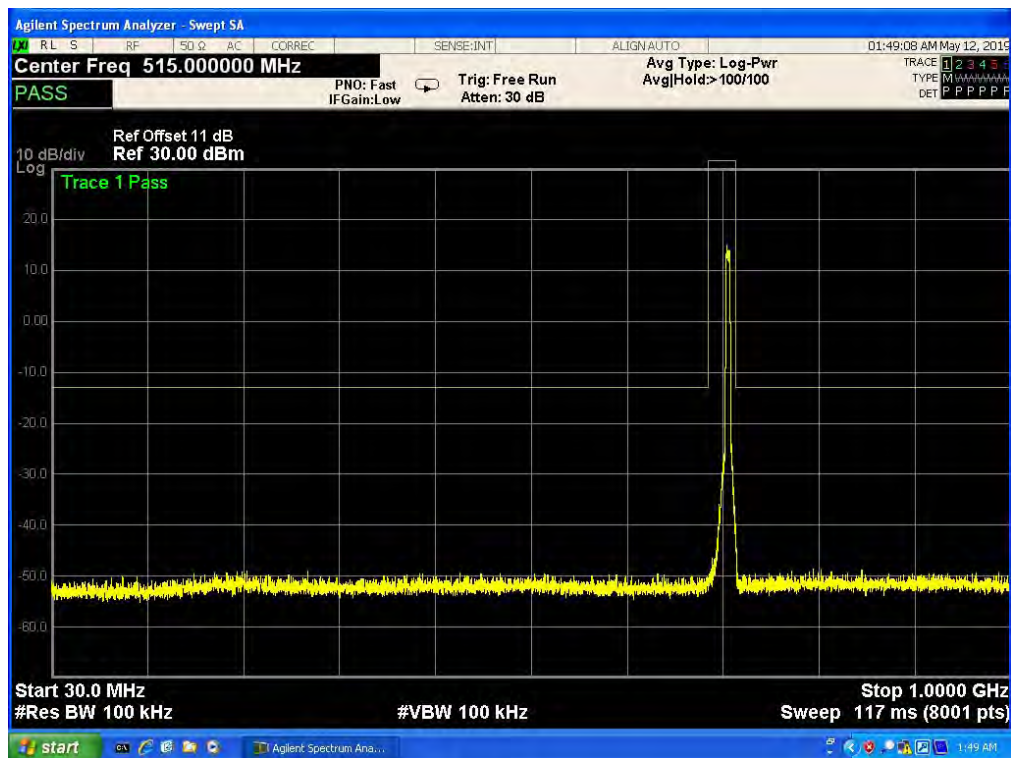
Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



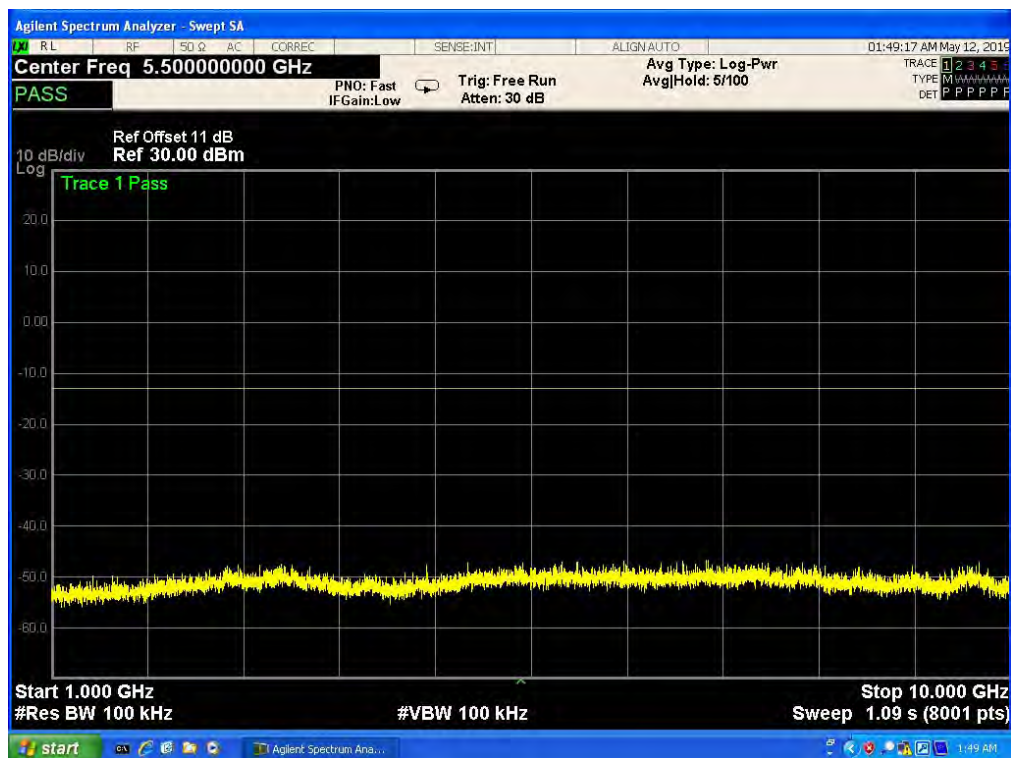
Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



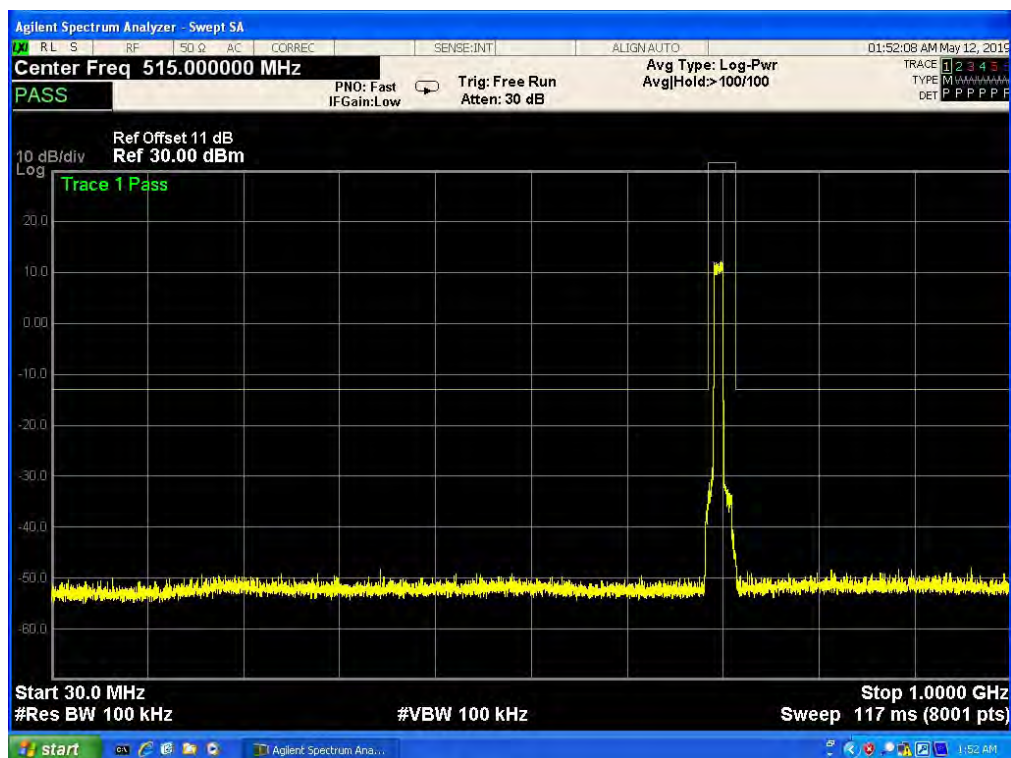
Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



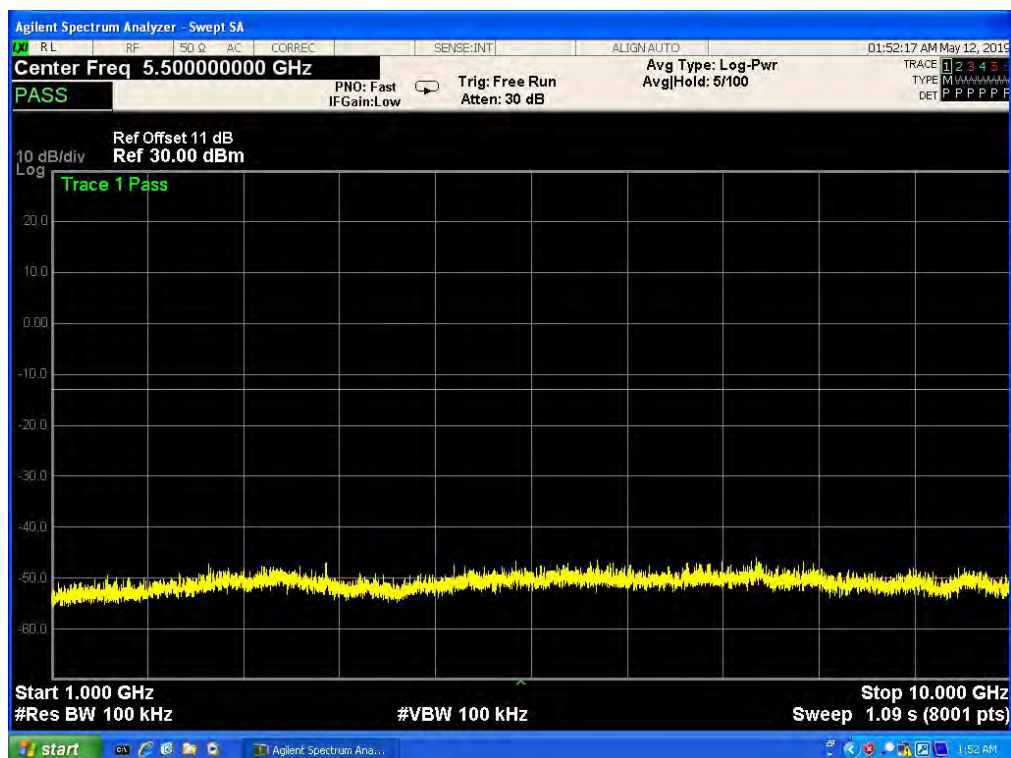
Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



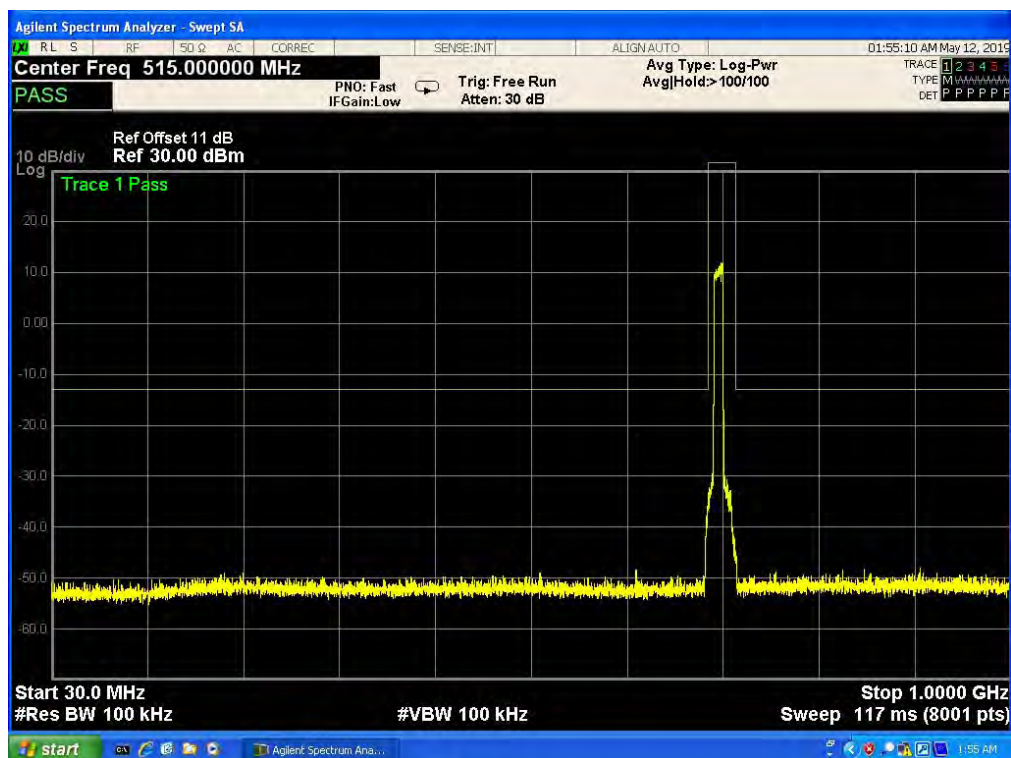
Band 12, UL Channel 23060, UL Frequency 704.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



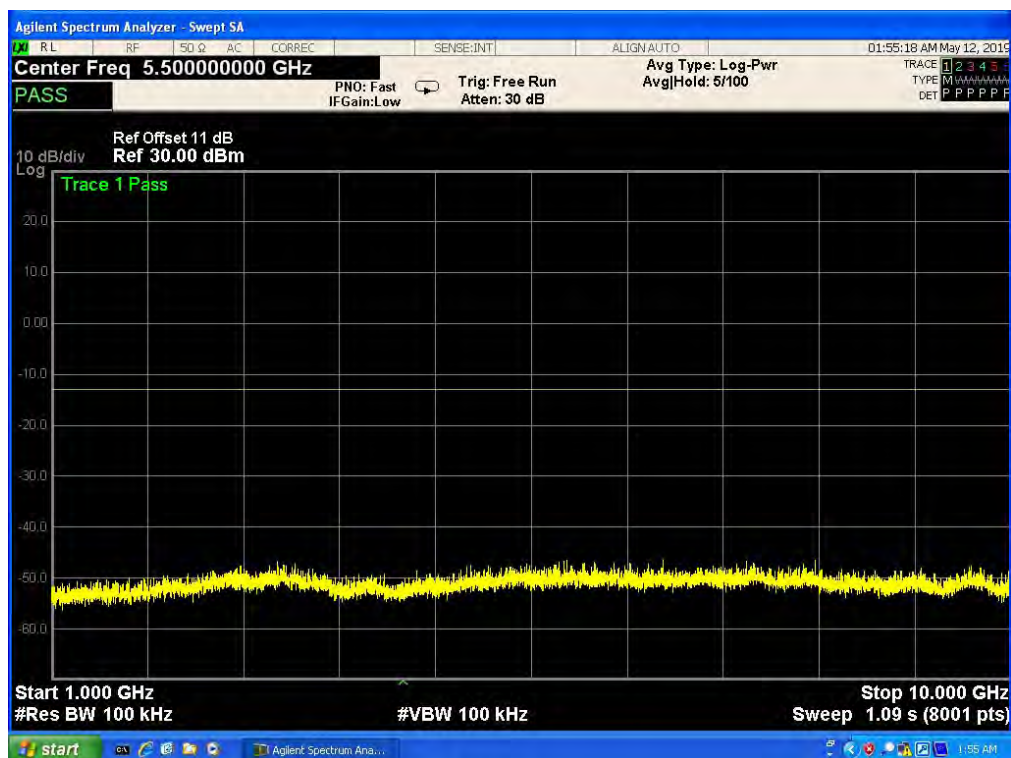
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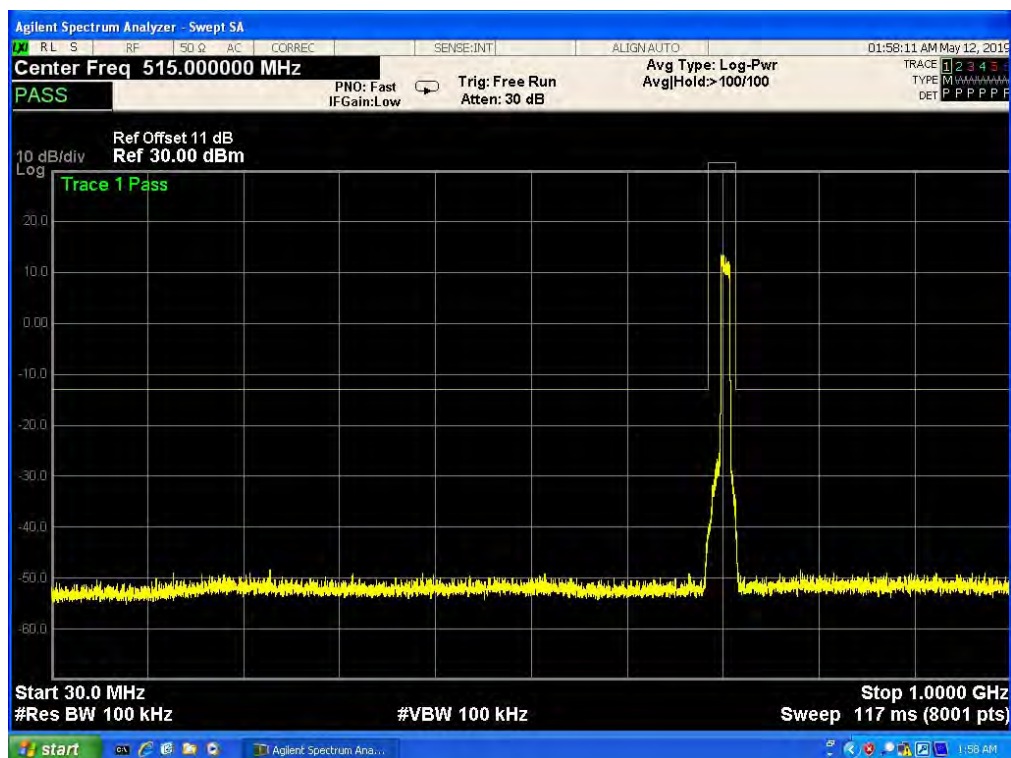
Band 12,UL Channel 23060,UL Frequency 704.0,BW 10.0,NO. RB 50,RB POS. Low,16-QAM



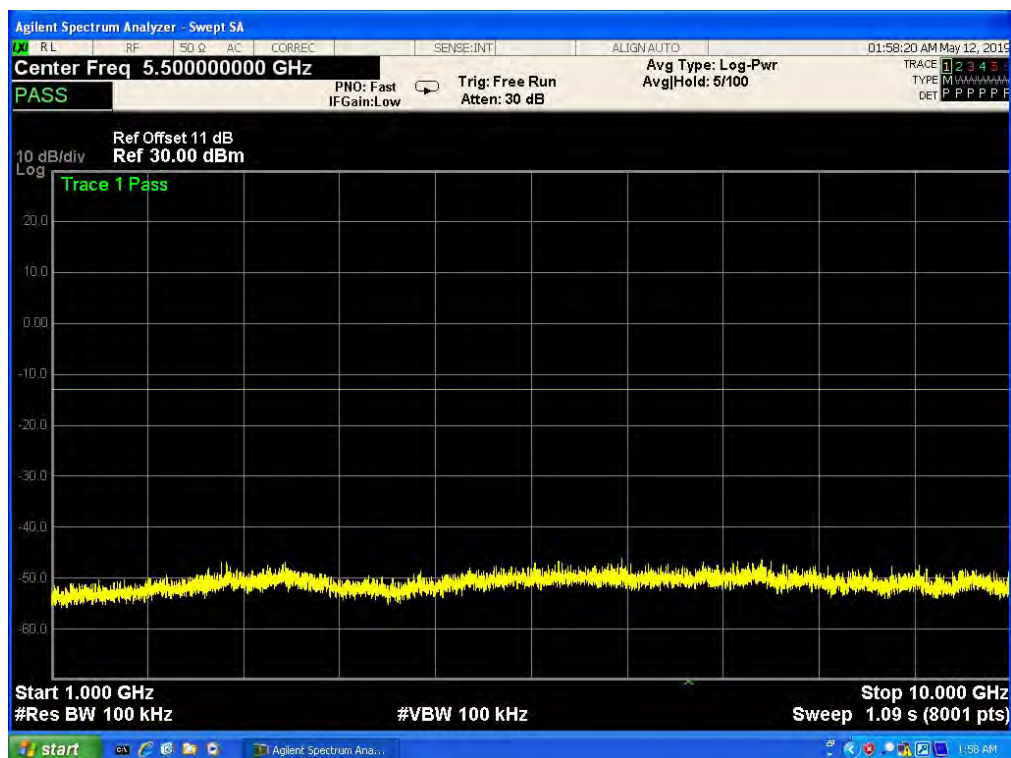
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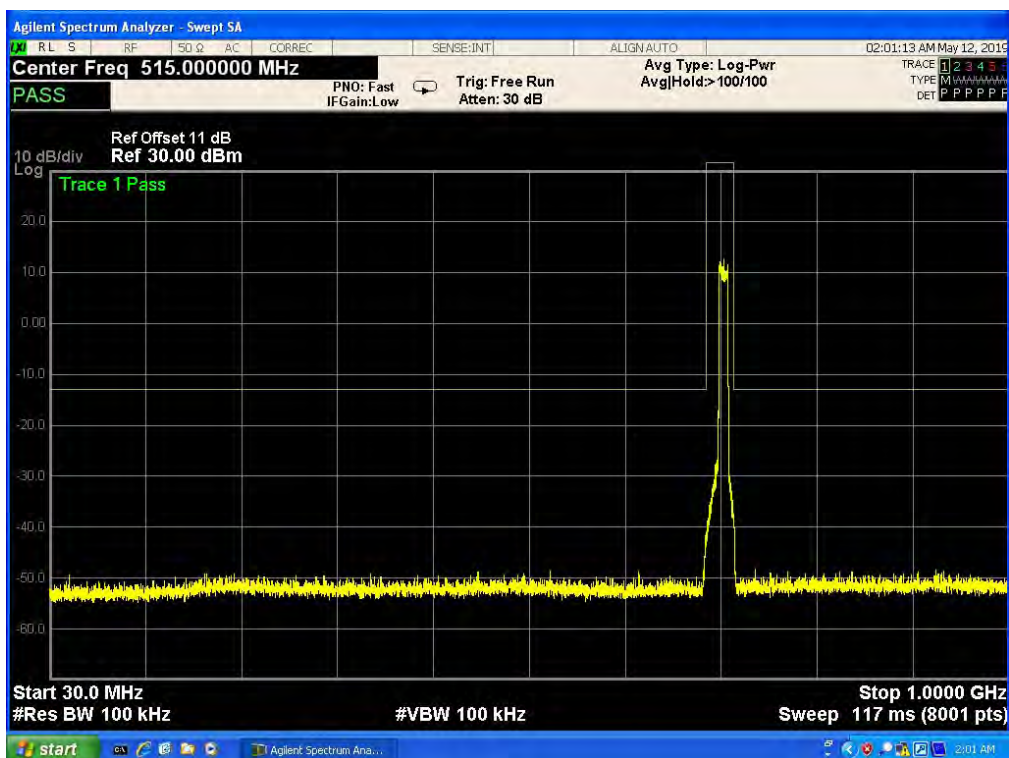
Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



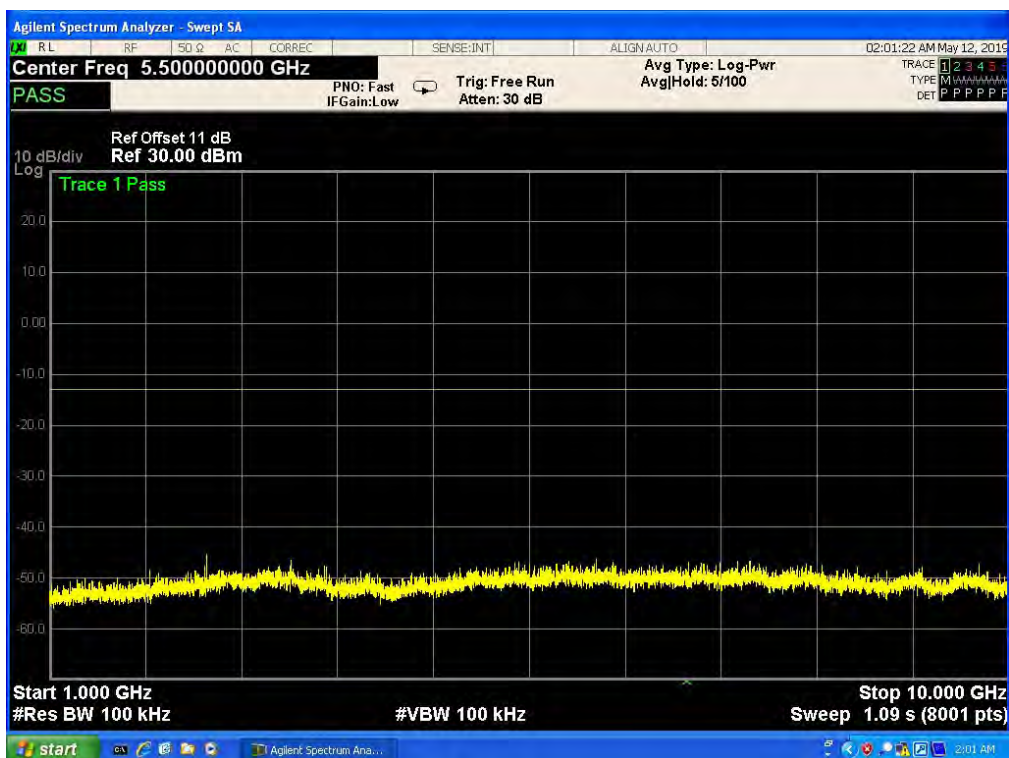
Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

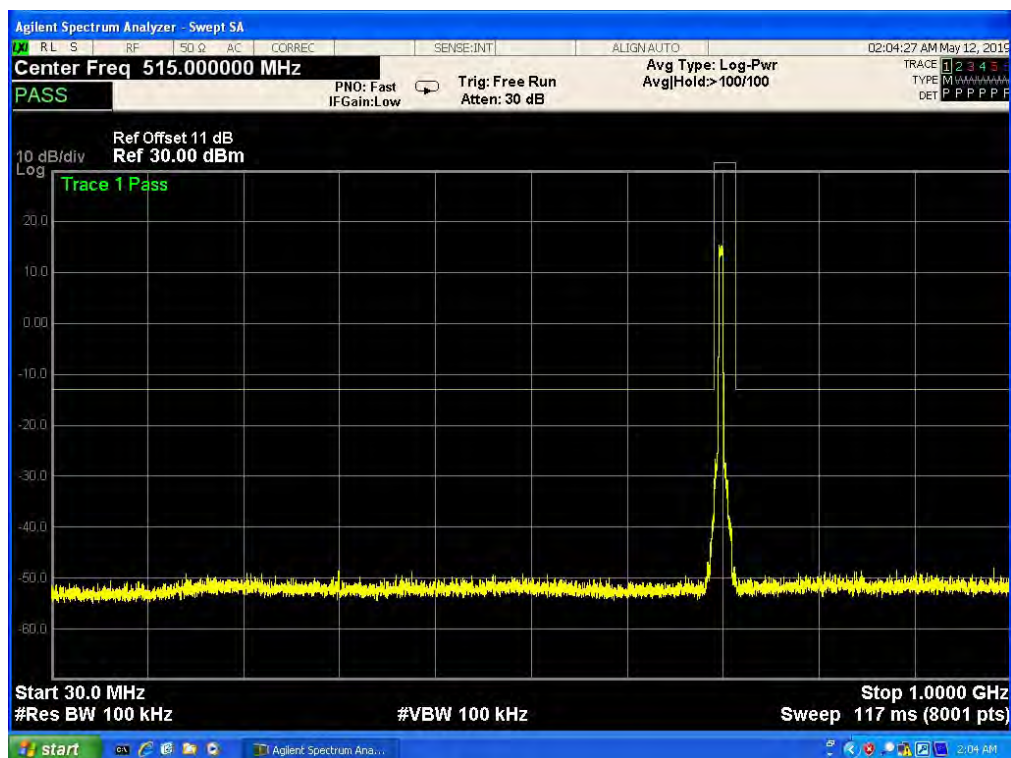


Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

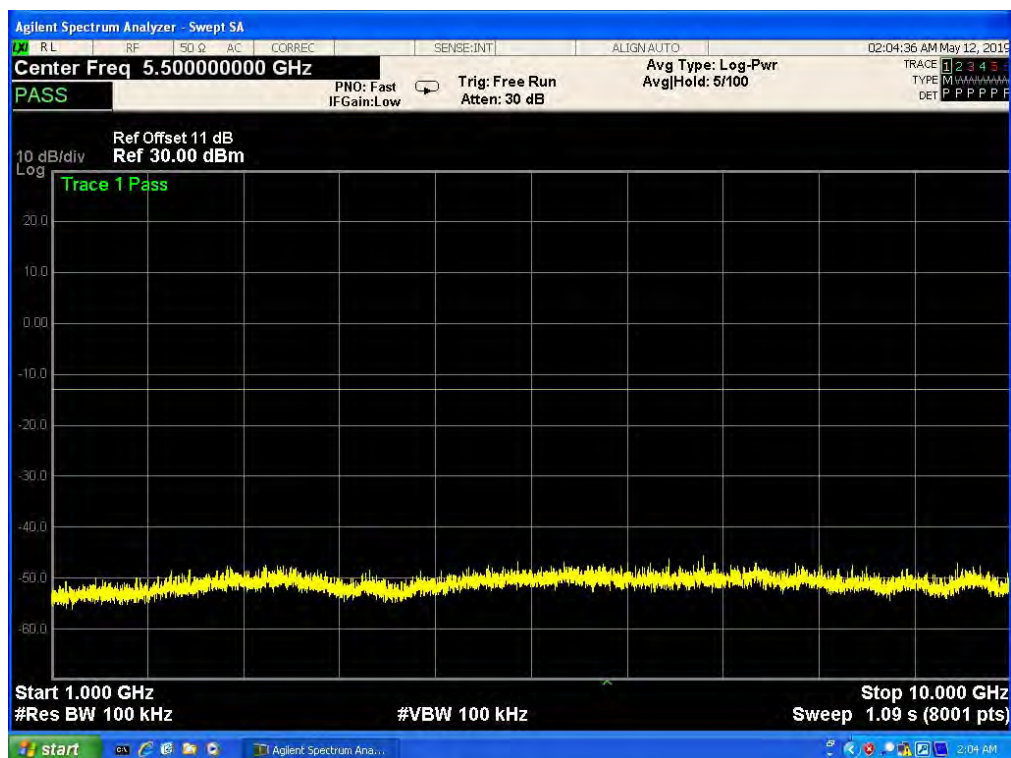


7.5 LTE BAND 17

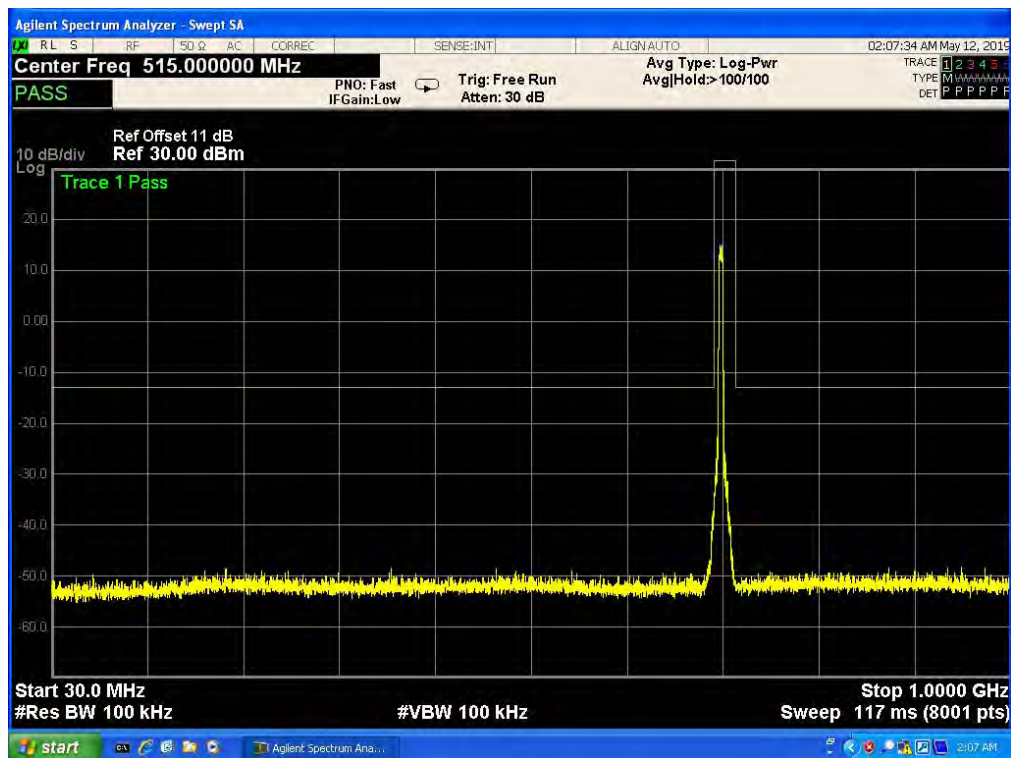
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



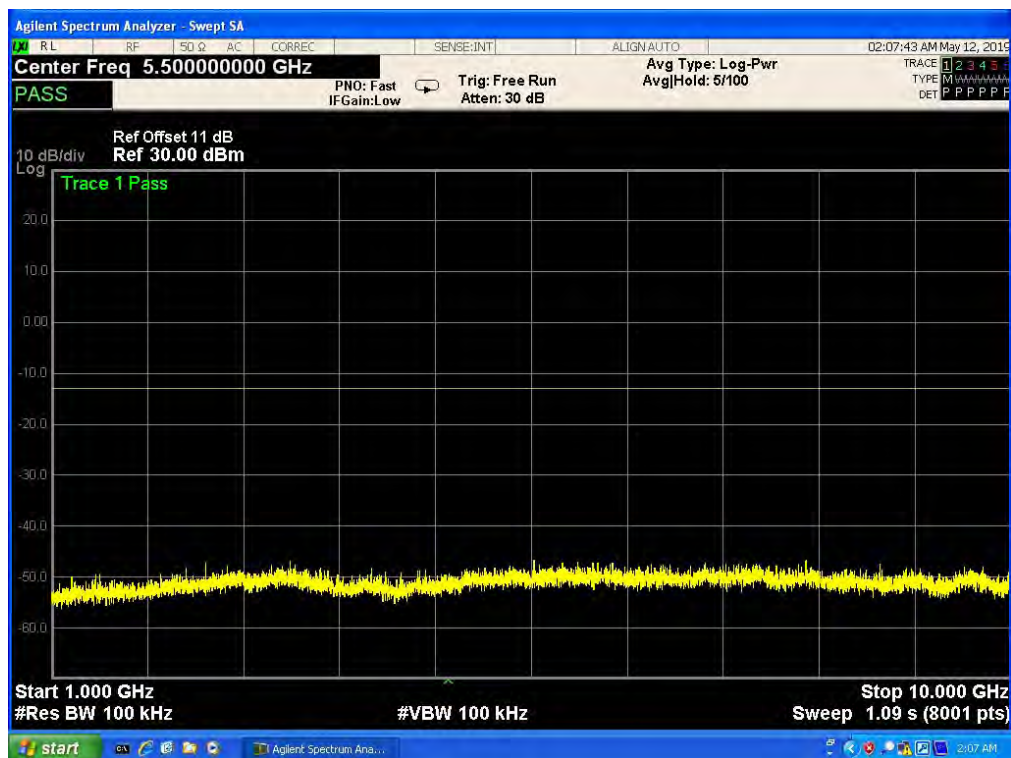
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



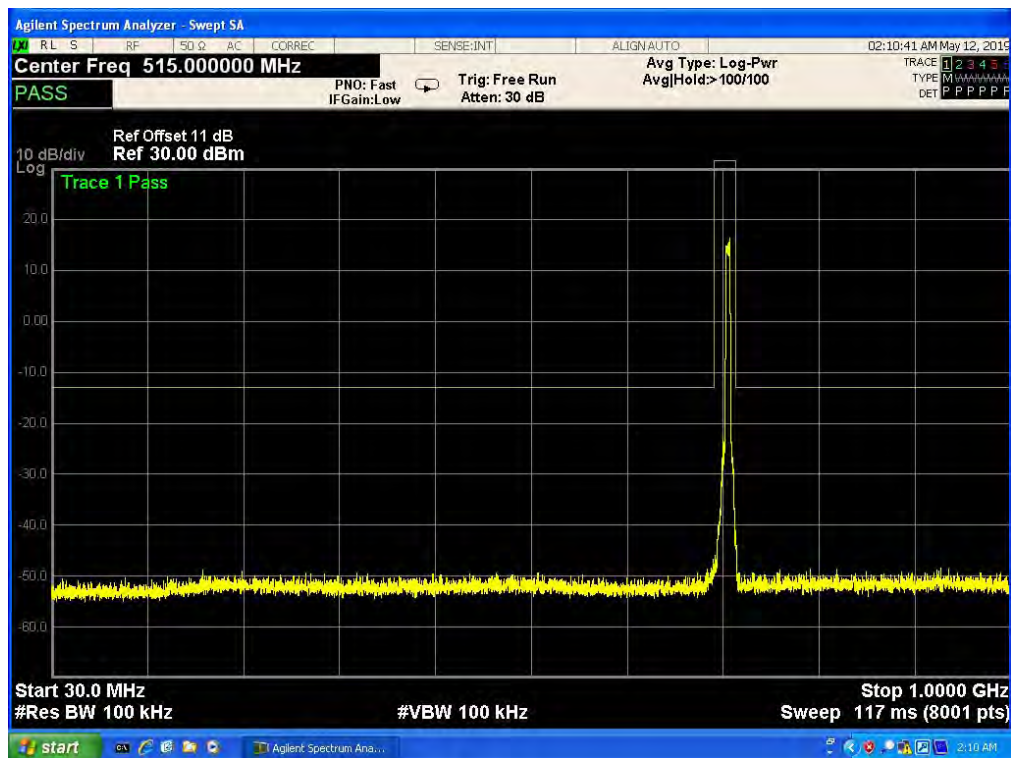
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



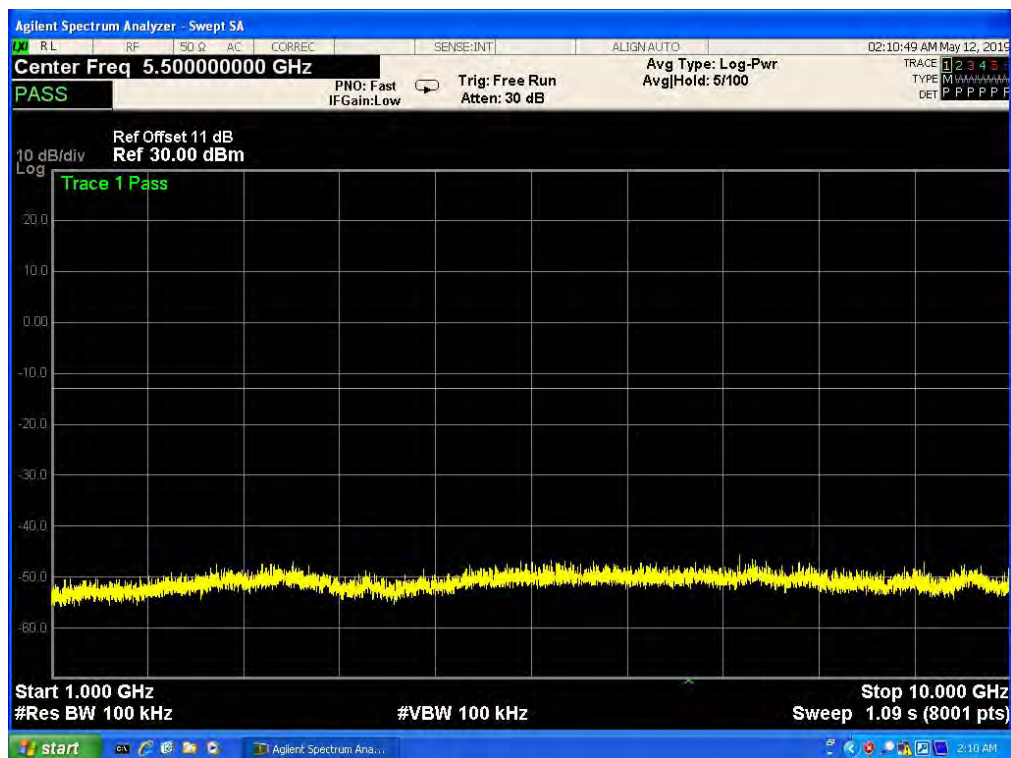
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



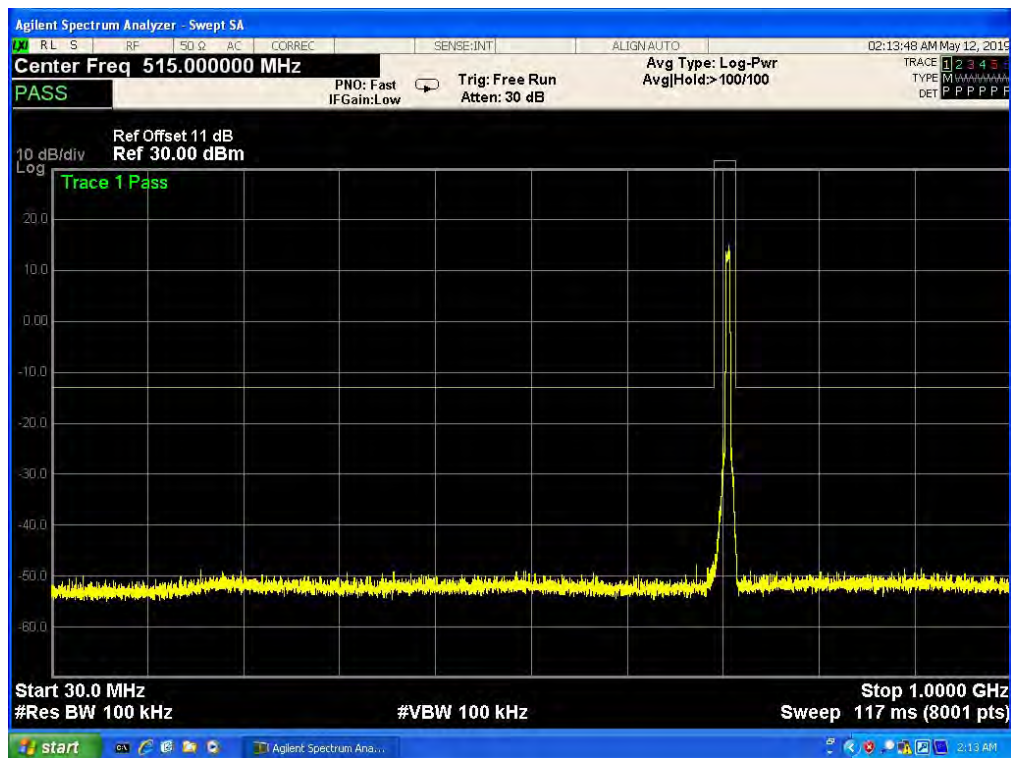
Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



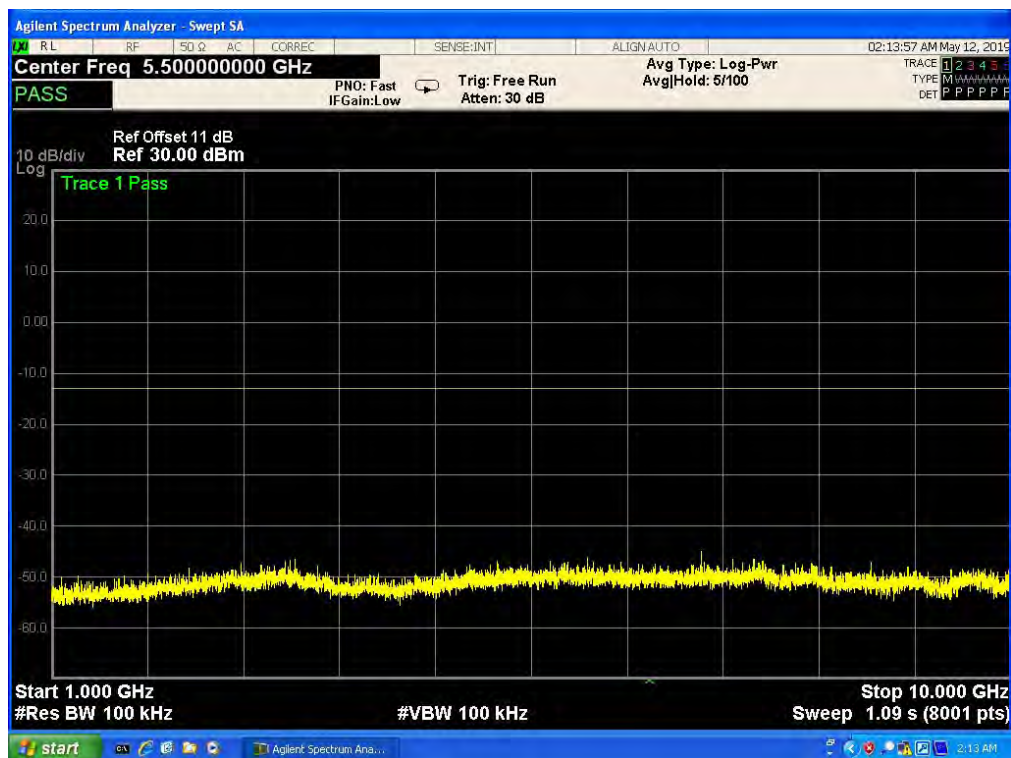
Band 17, UL Channel 23825, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



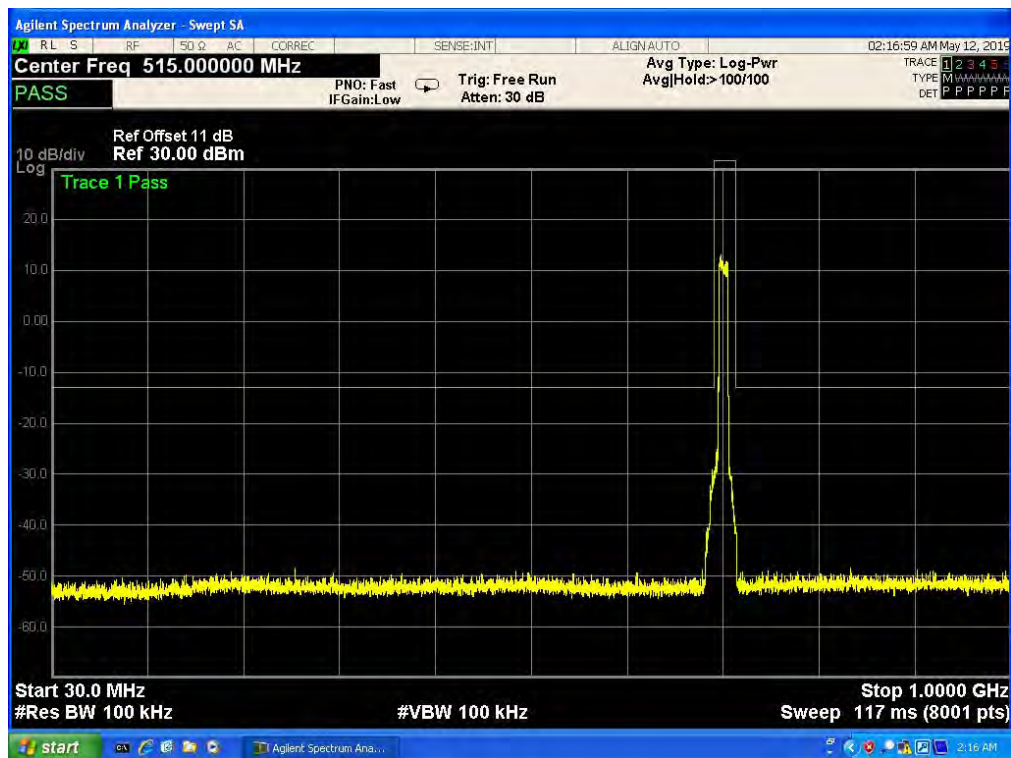
Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



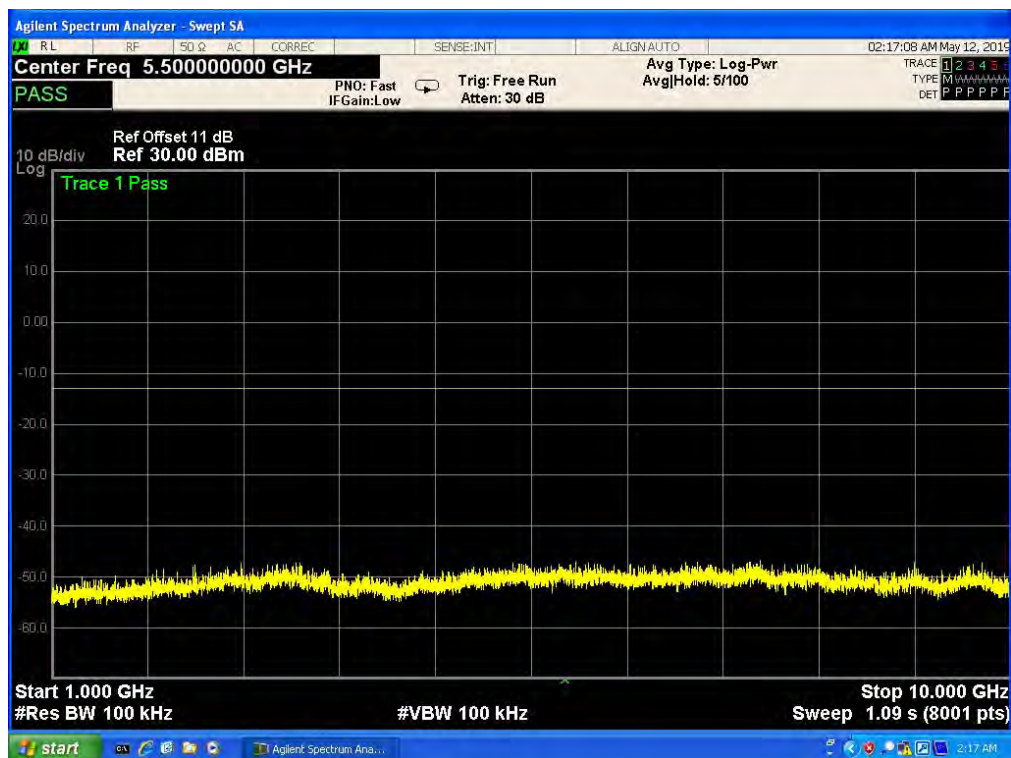
Band 17,UL Channel 23825,UL Frequency 713.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



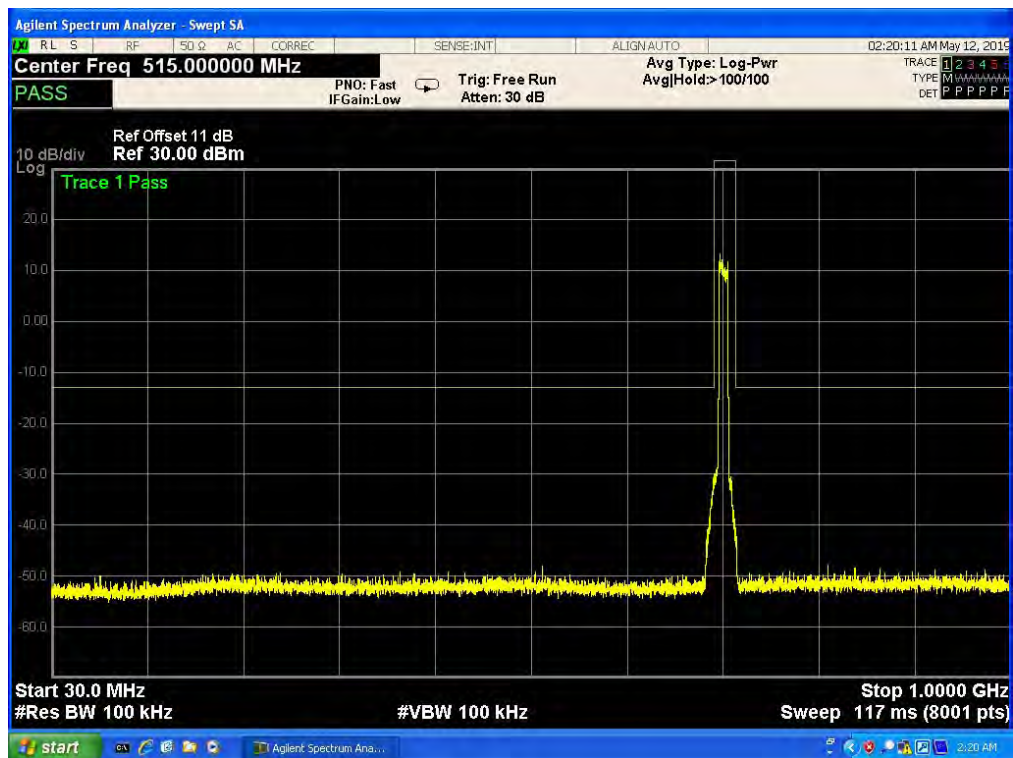
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



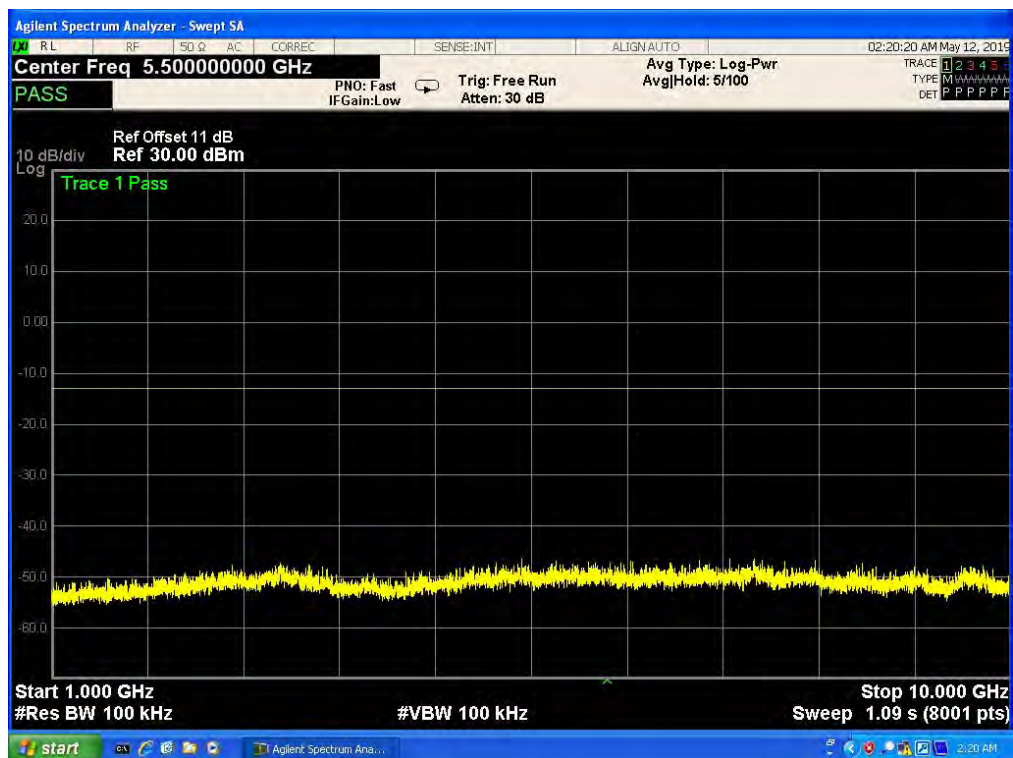
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



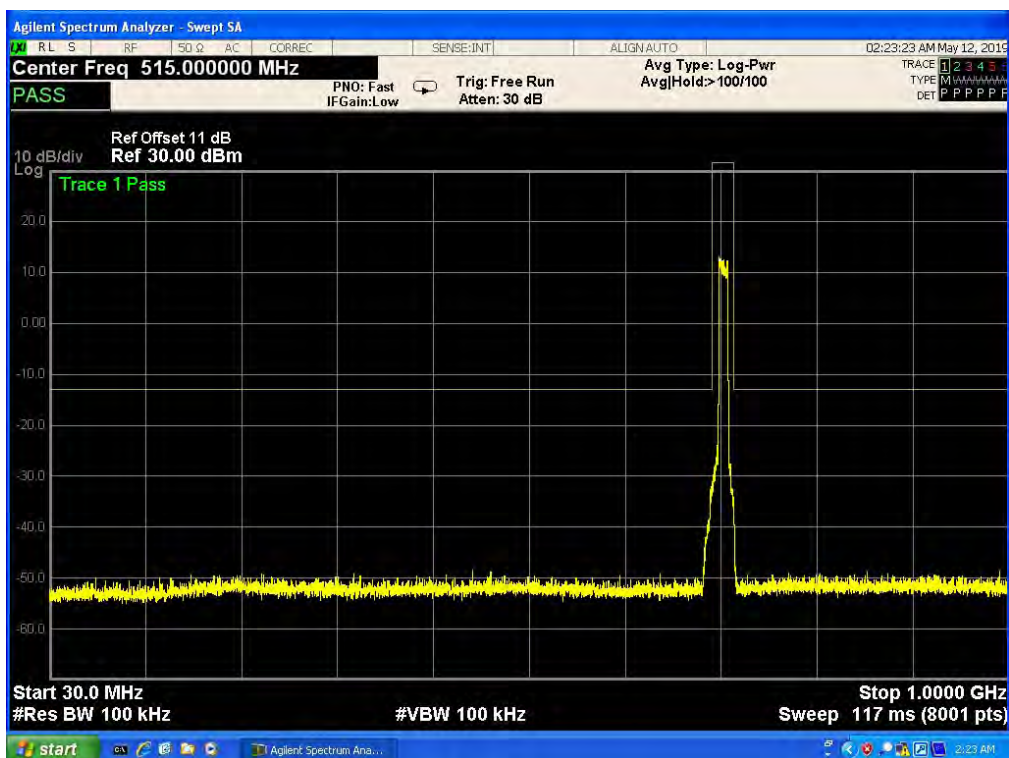
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



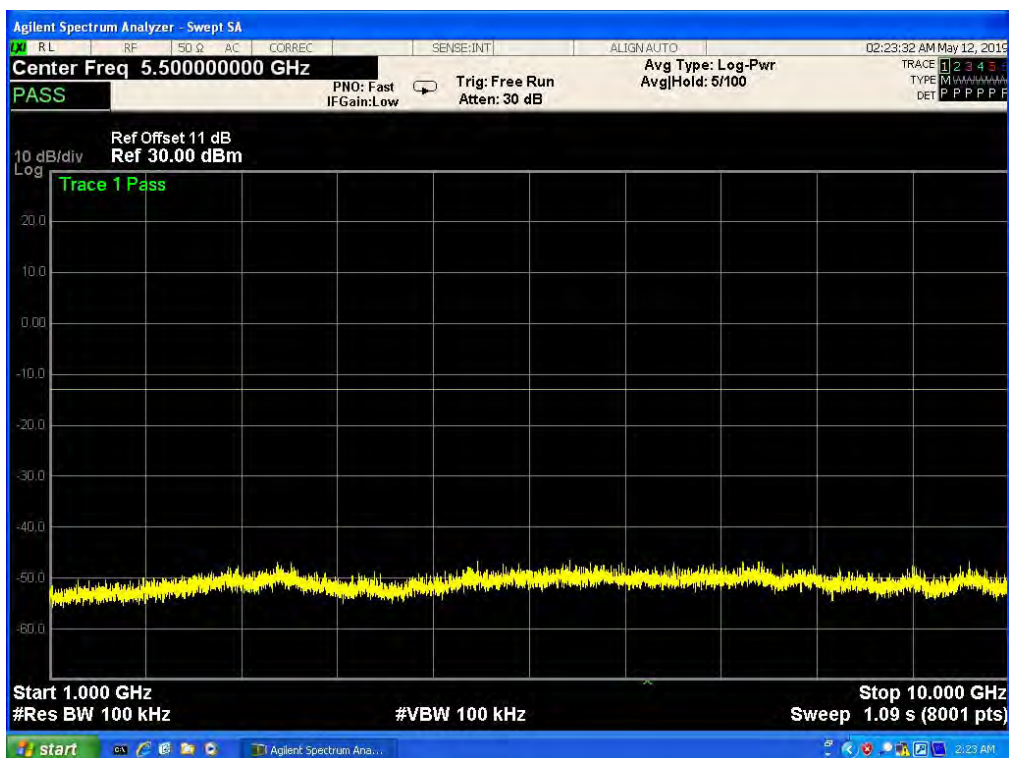
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



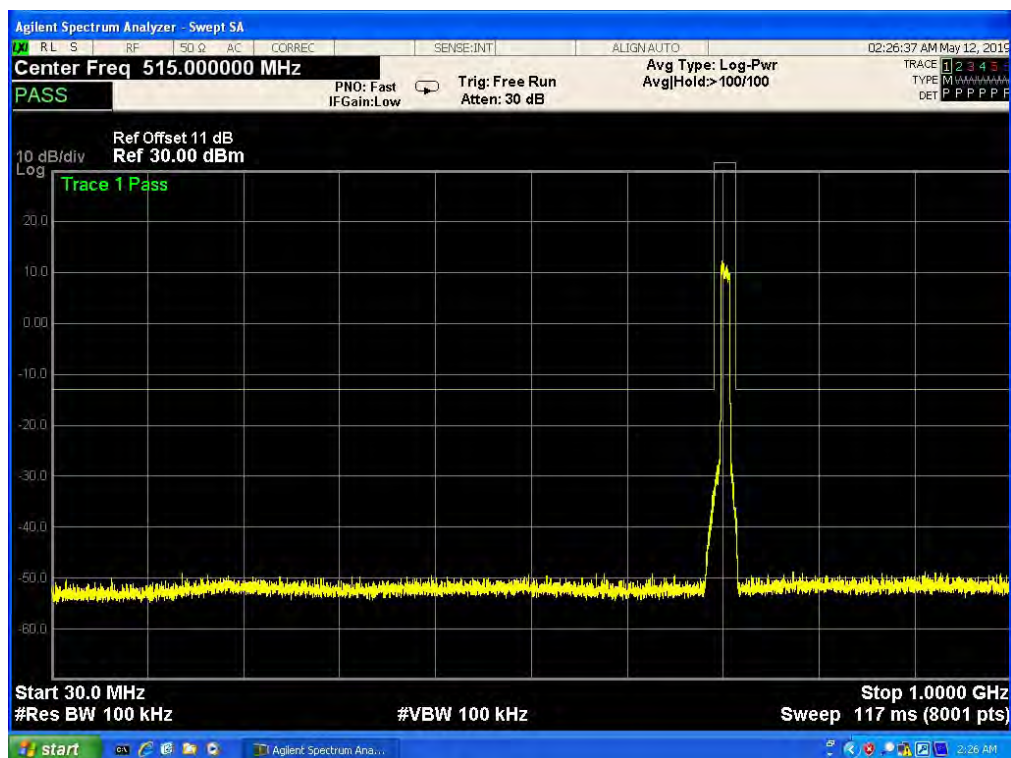
Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



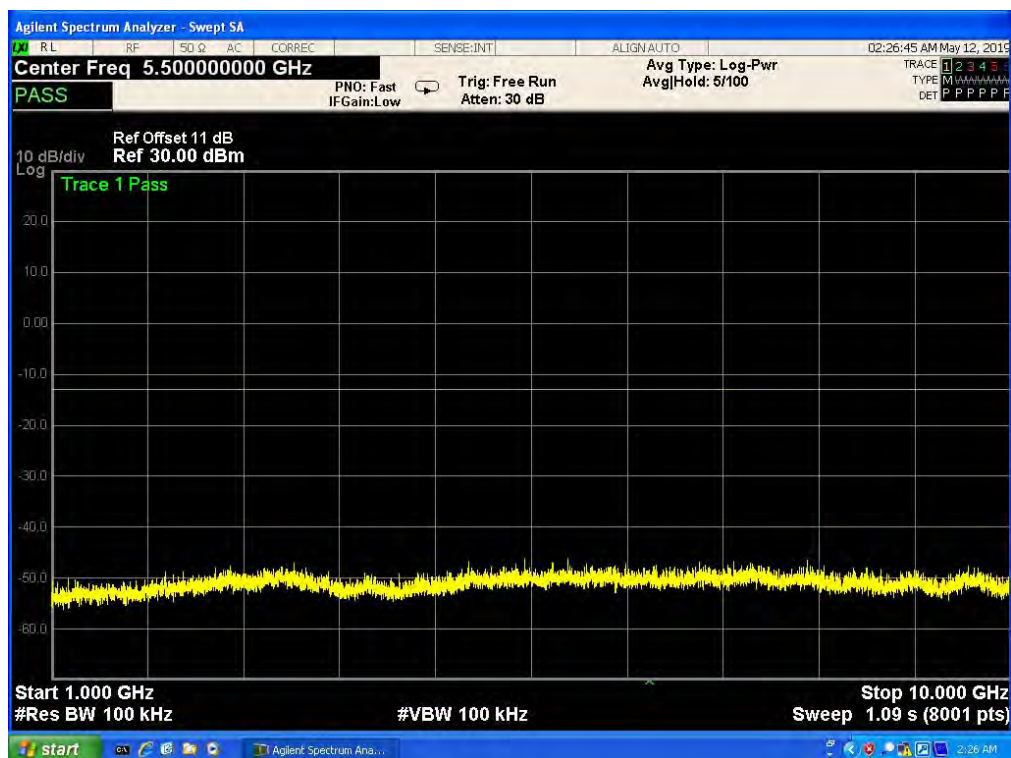
Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

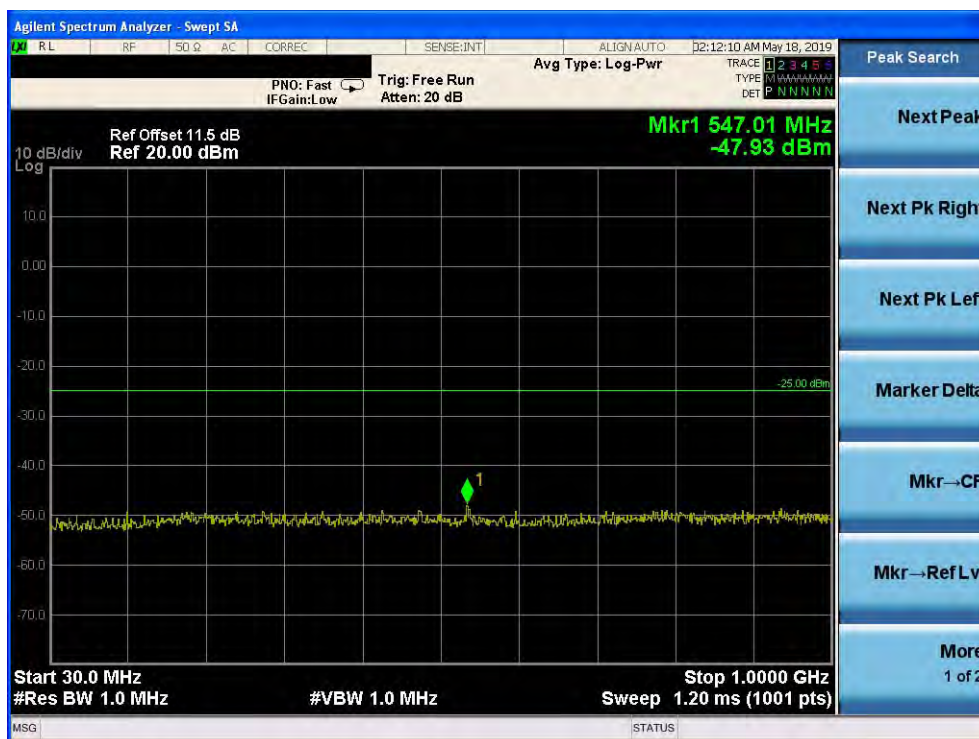


Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

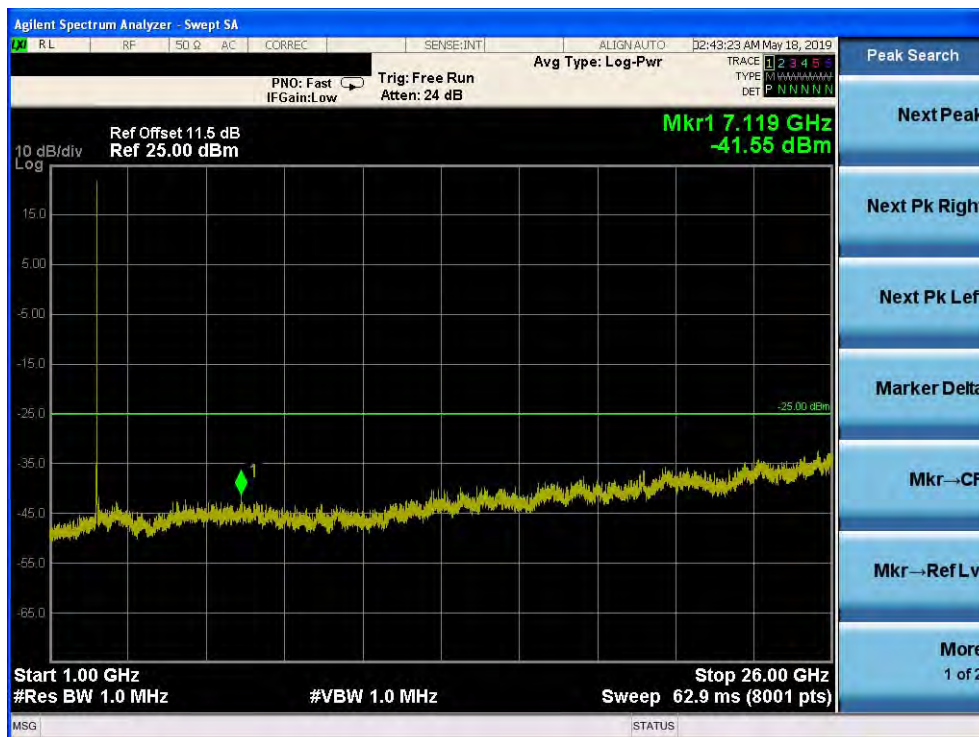


7.6 LTE BAND 7

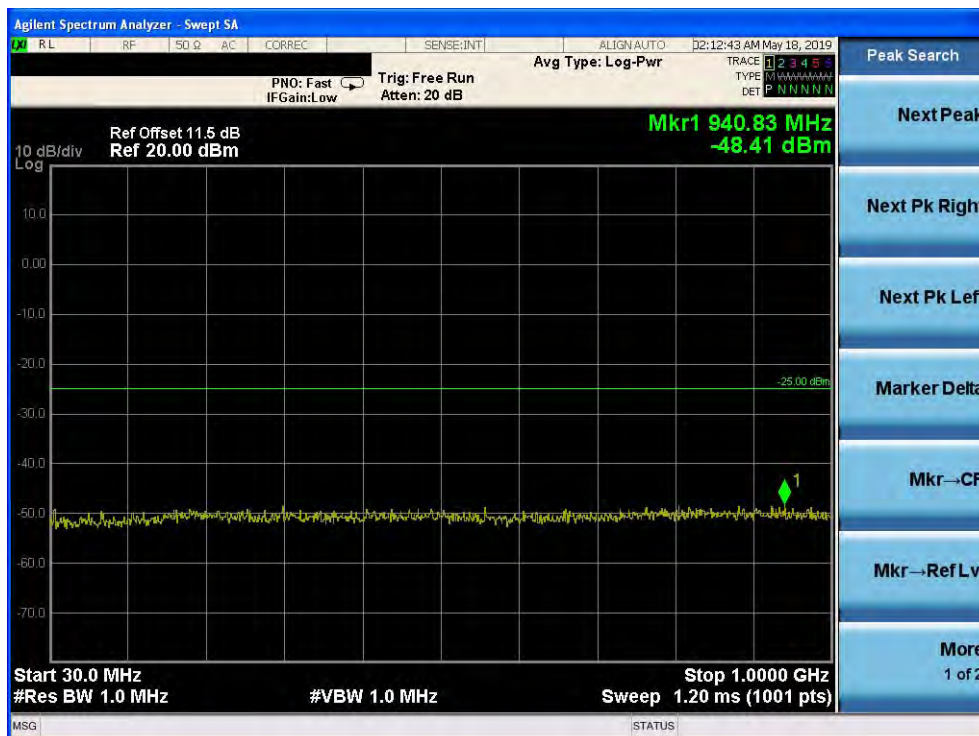
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



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



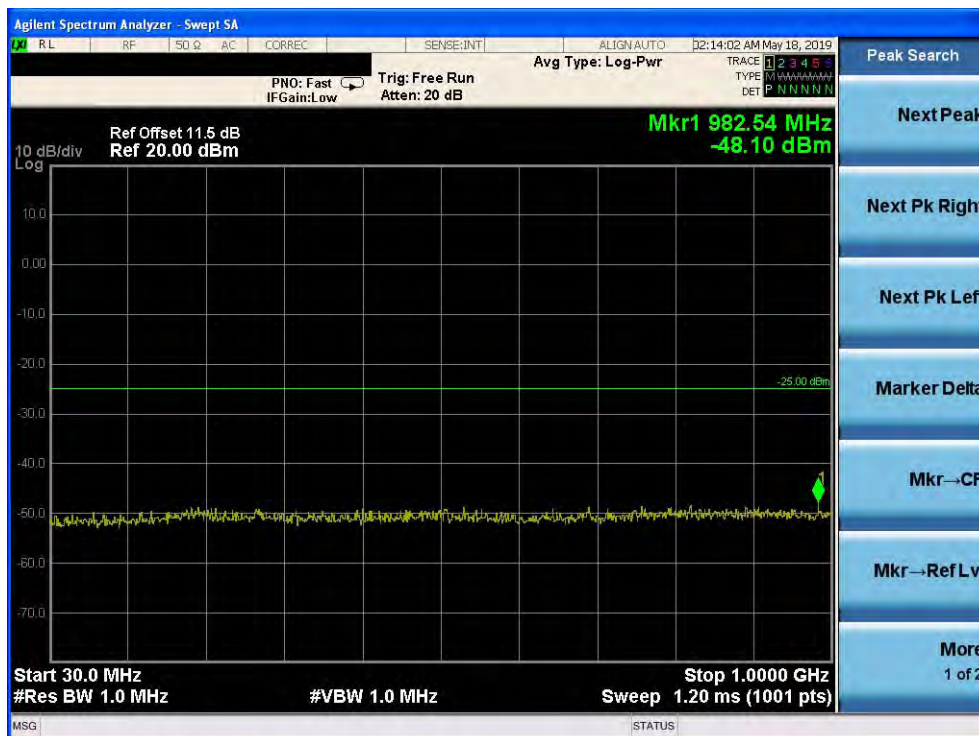
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



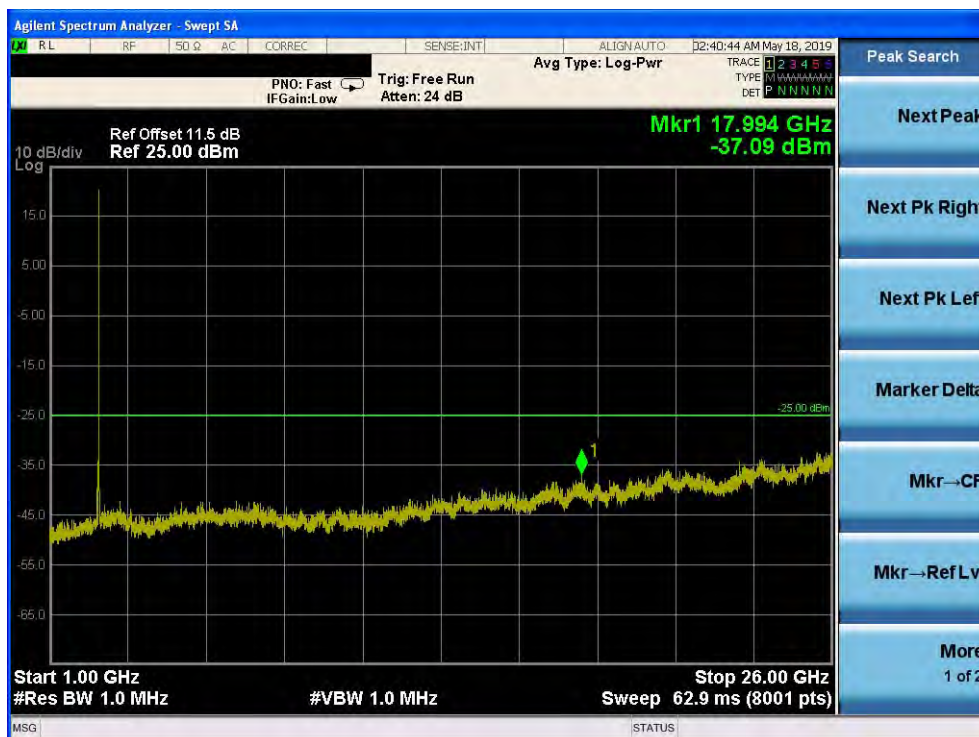
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



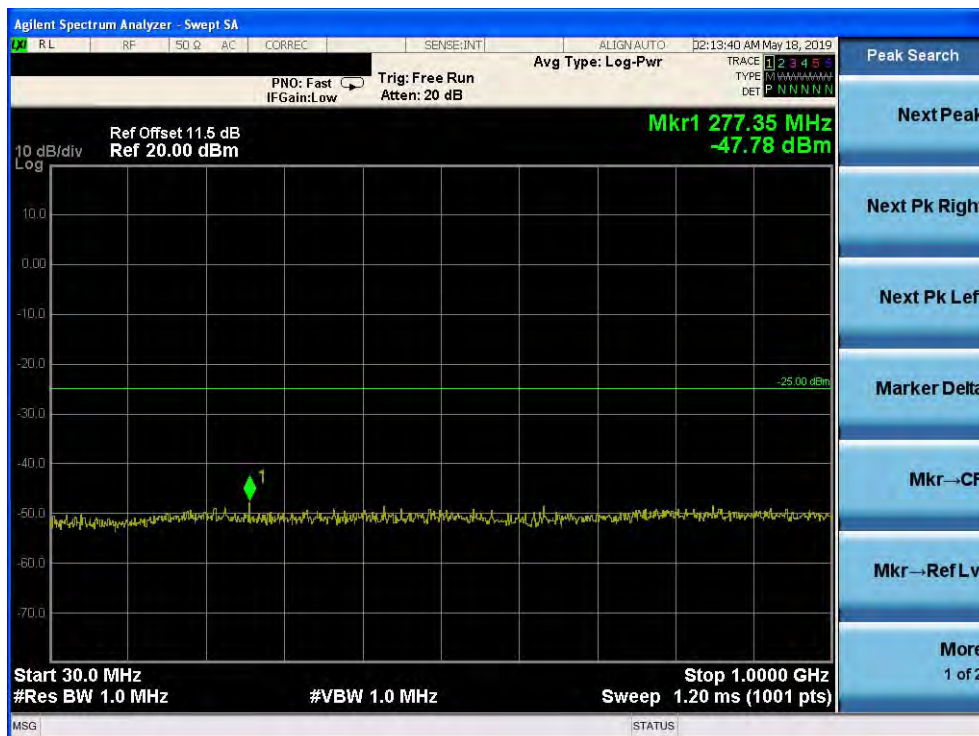
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



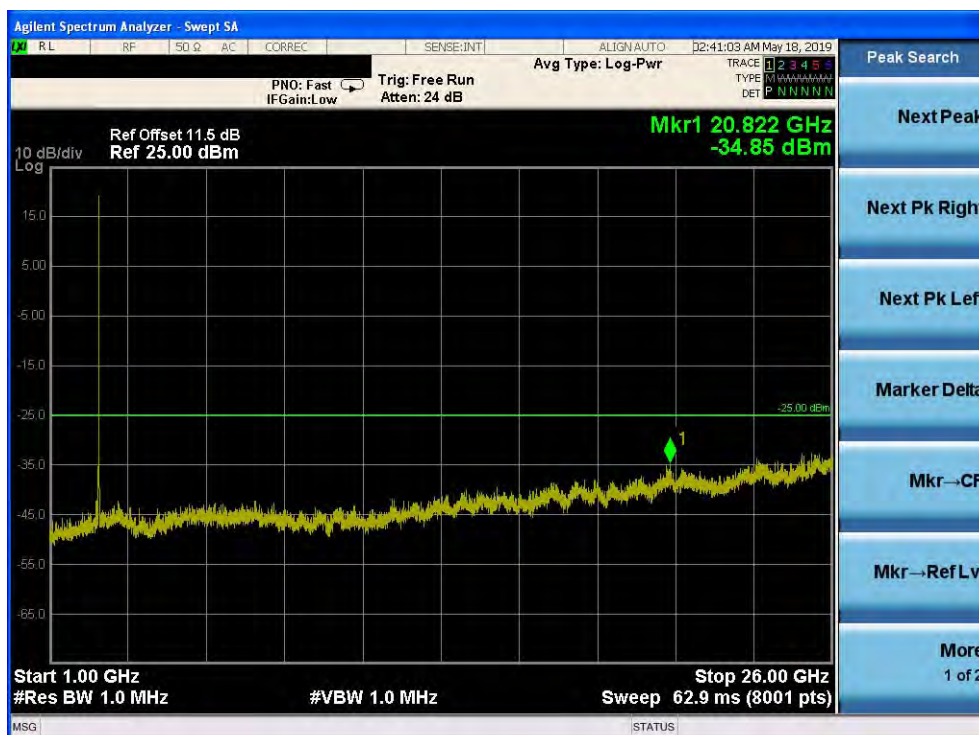
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



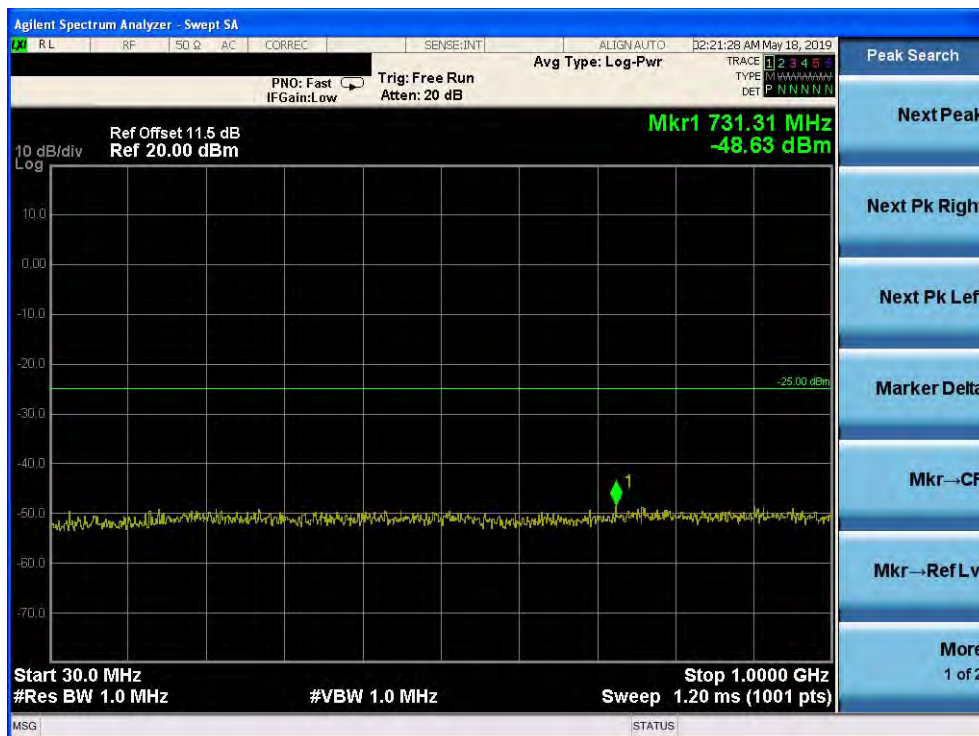
Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



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



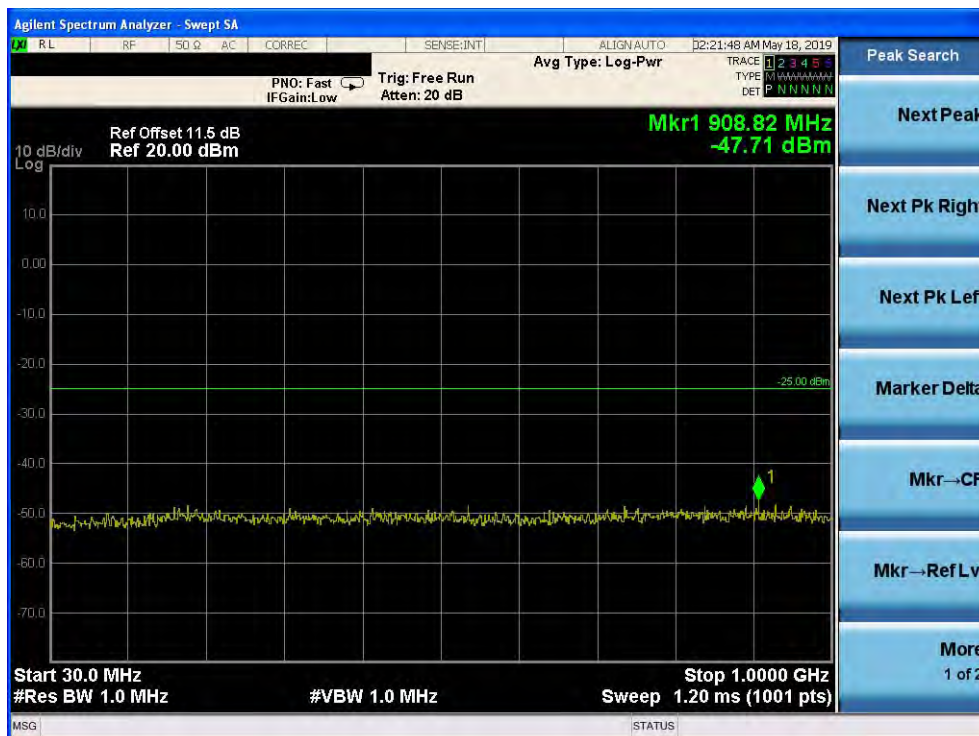
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



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



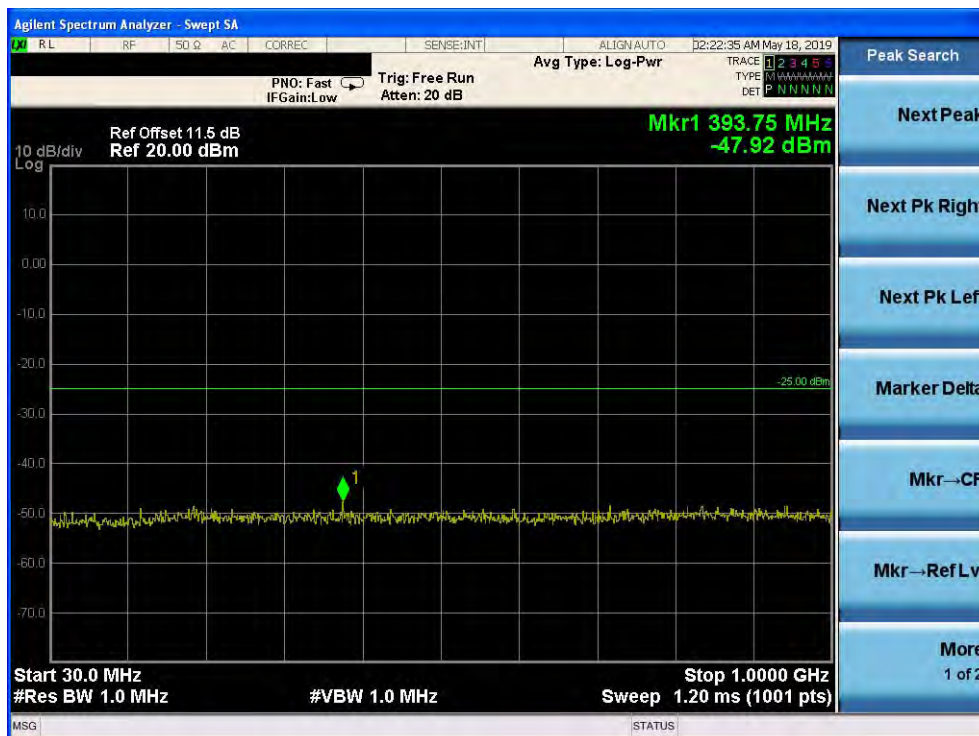
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



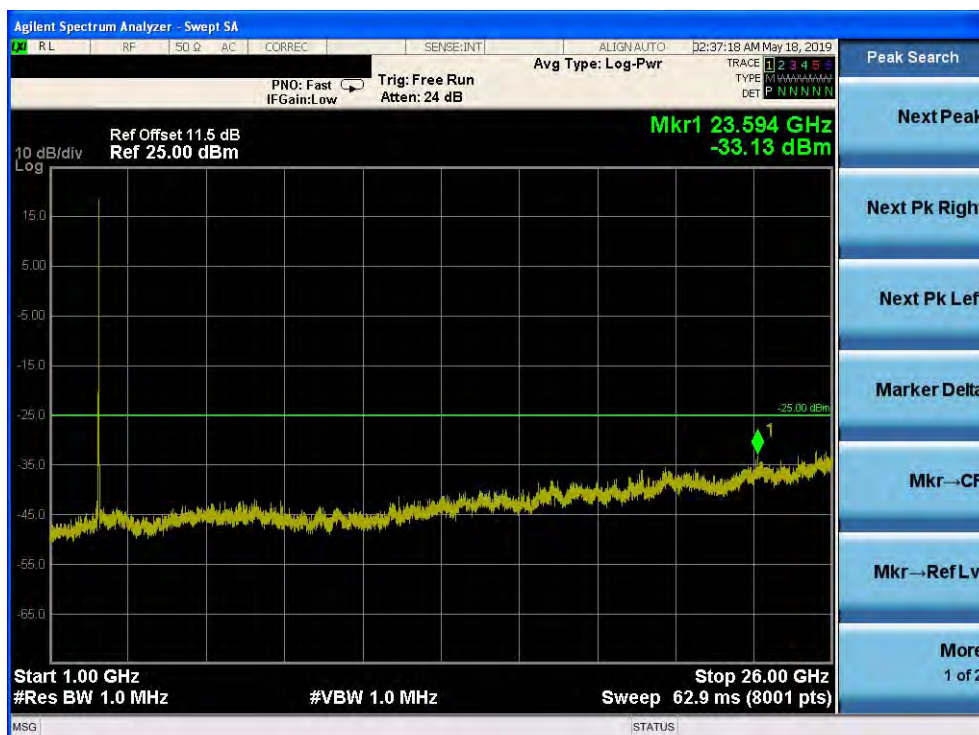
Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



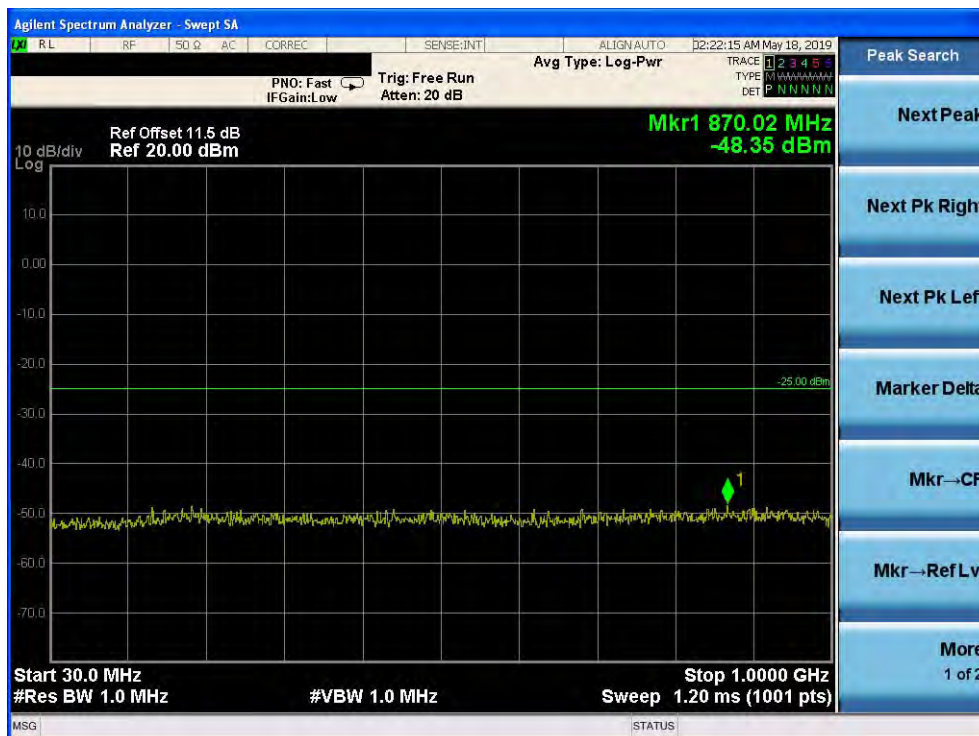
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



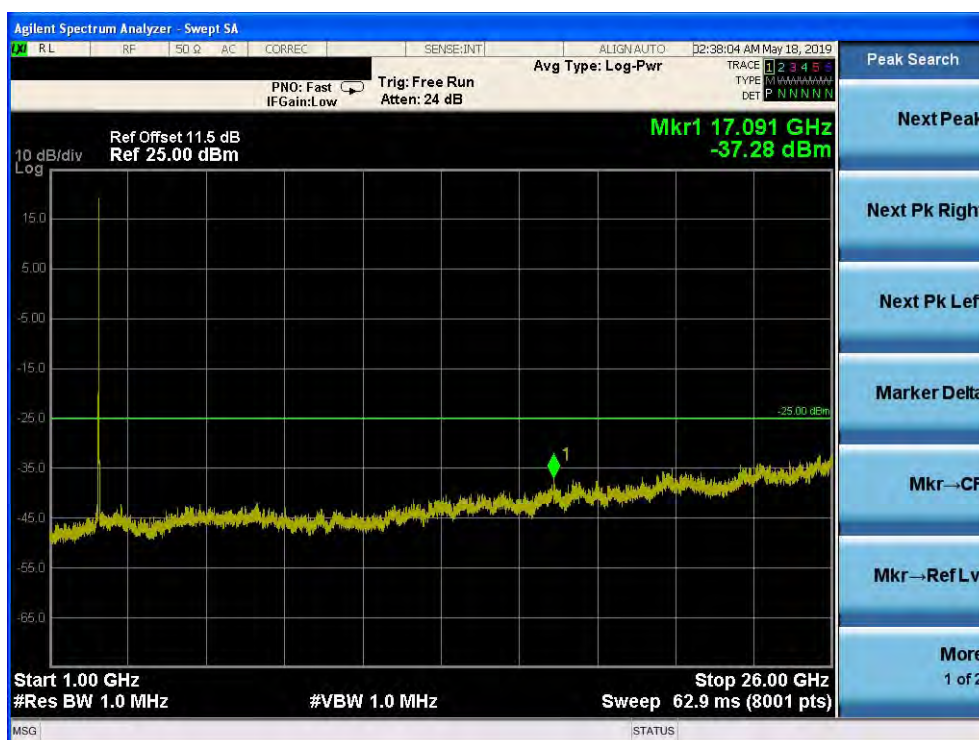
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



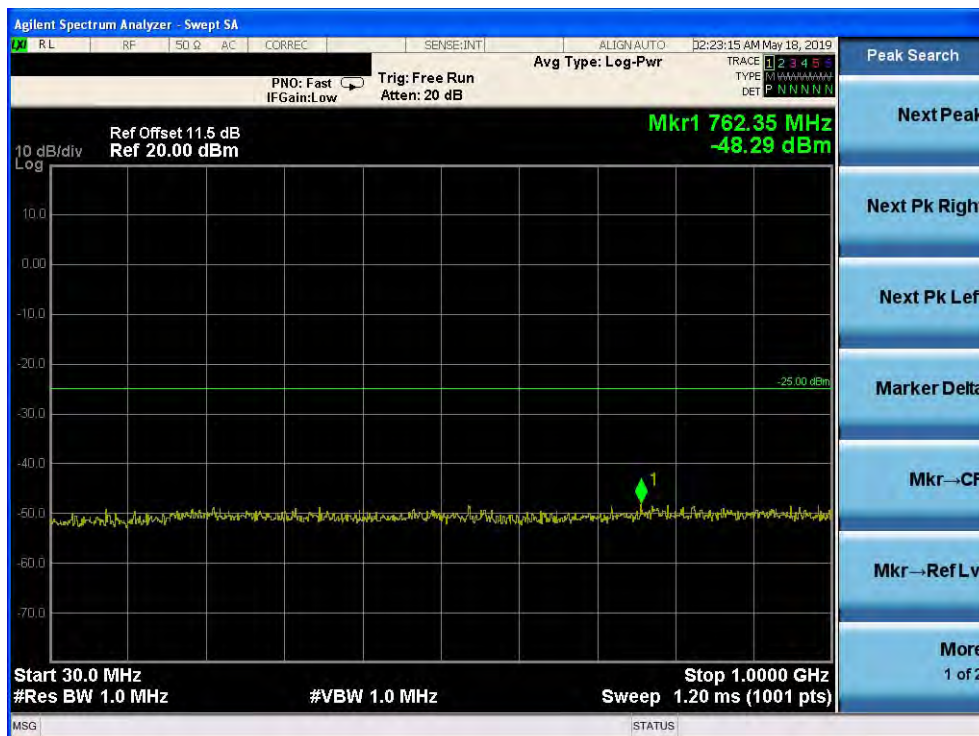
Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



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



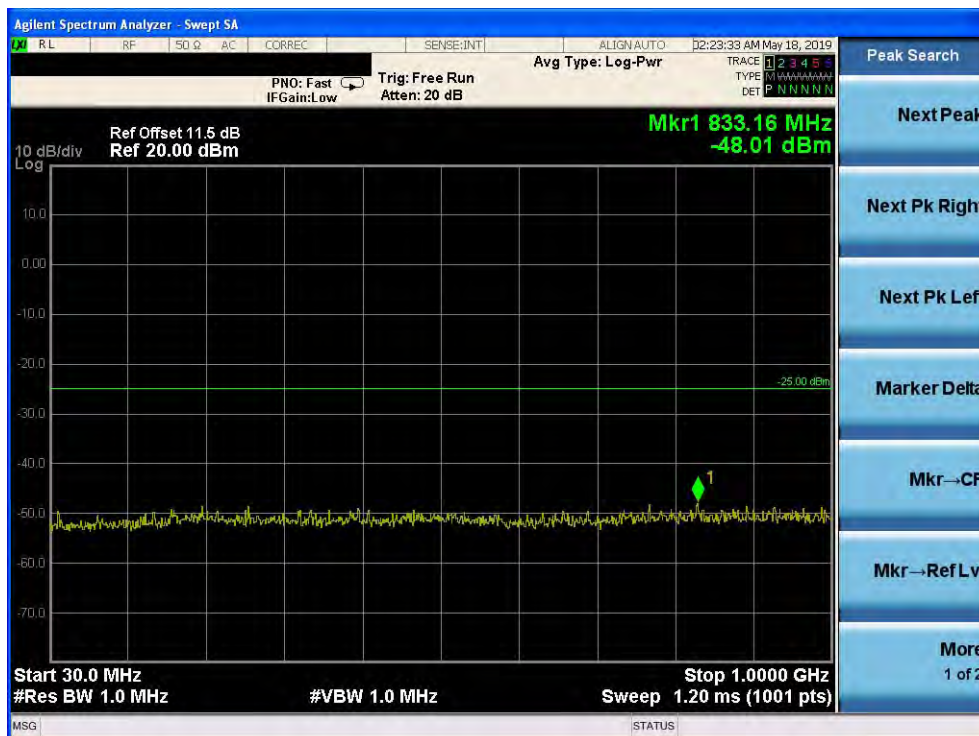
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



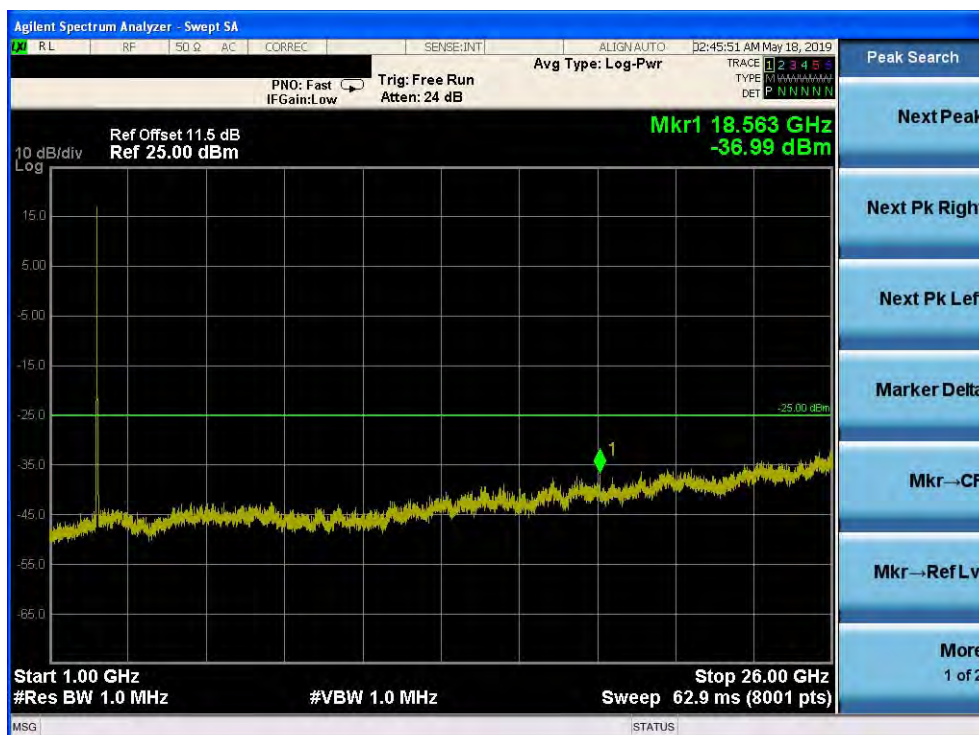
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



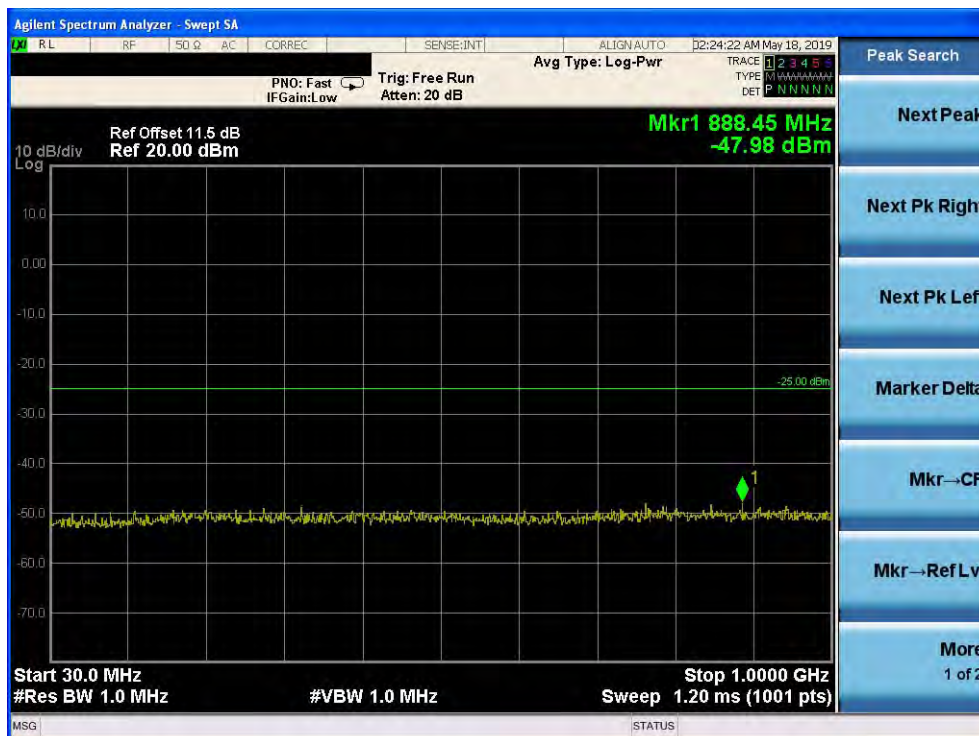
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



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



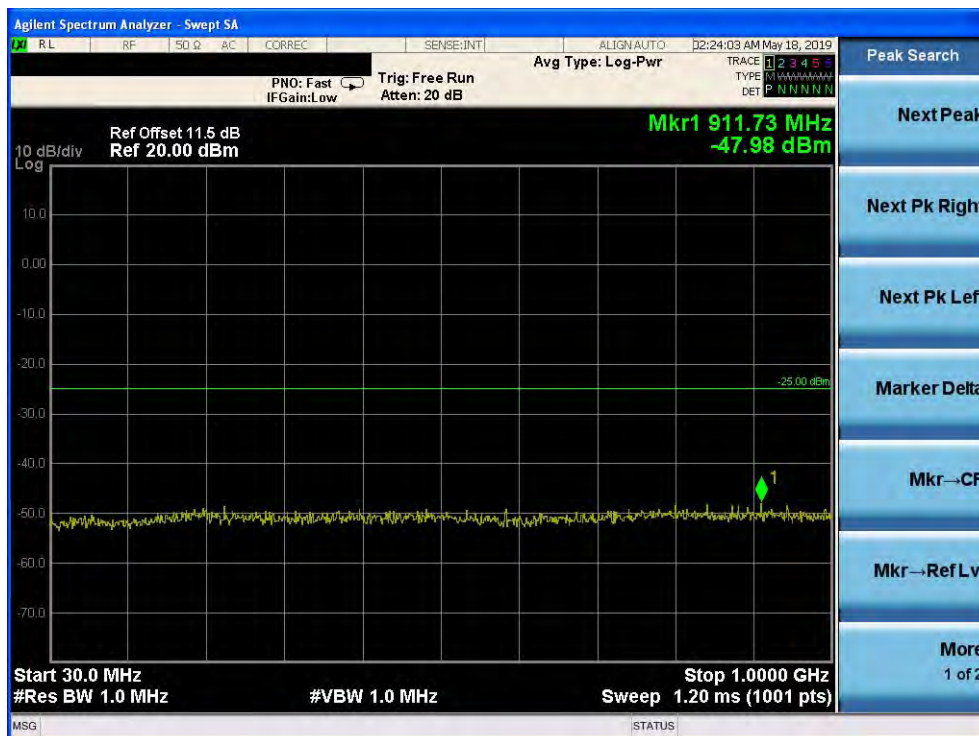
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



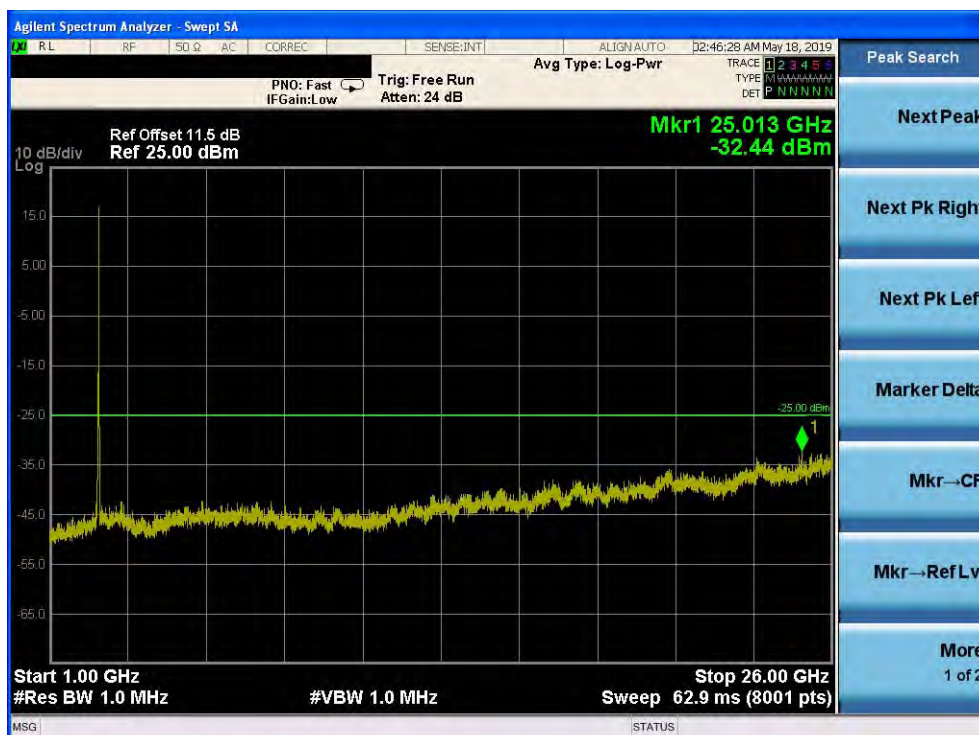
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



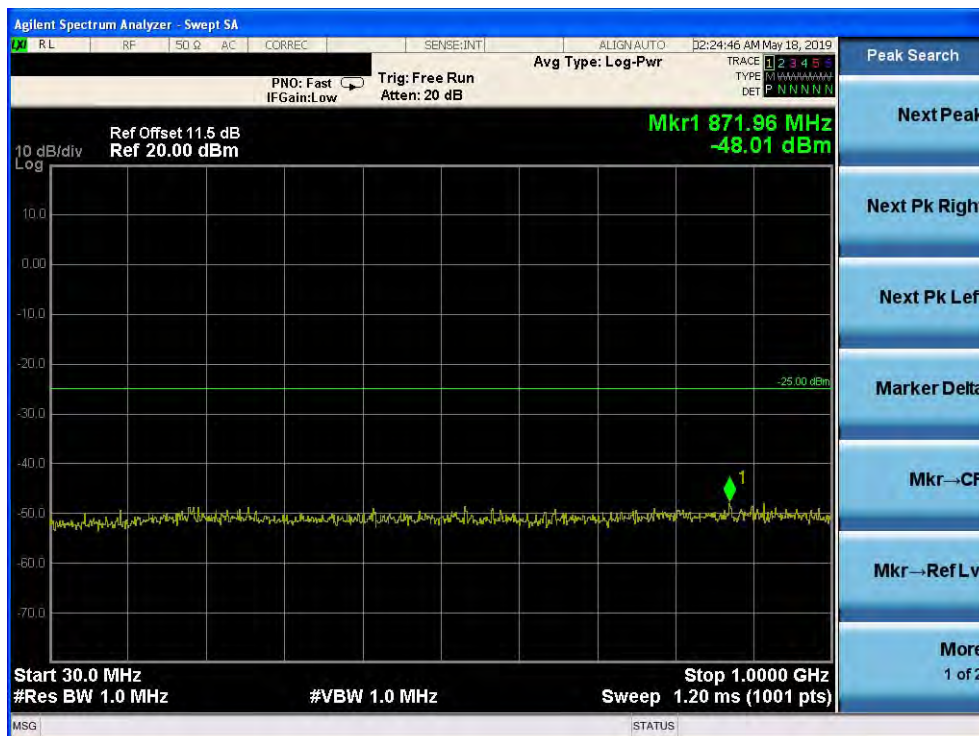
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



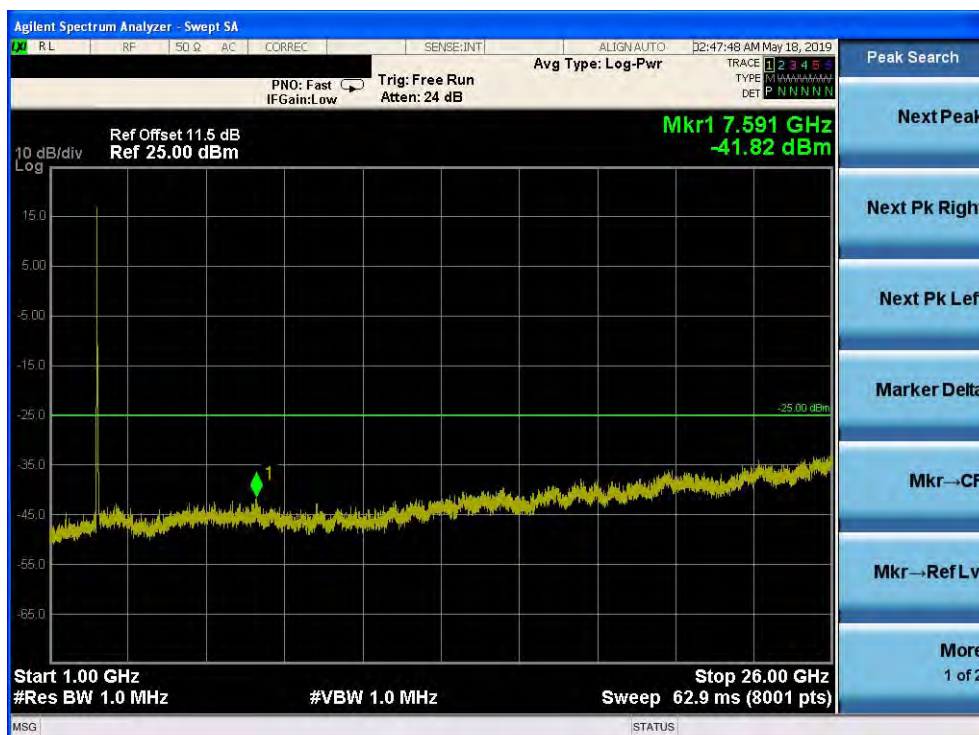
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



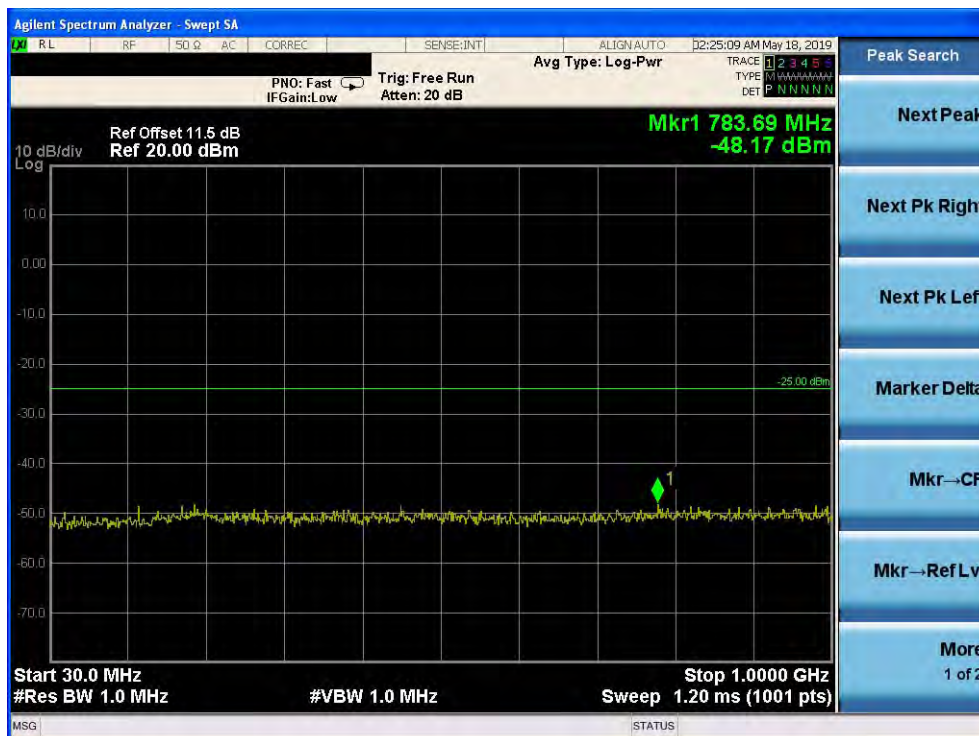
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



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



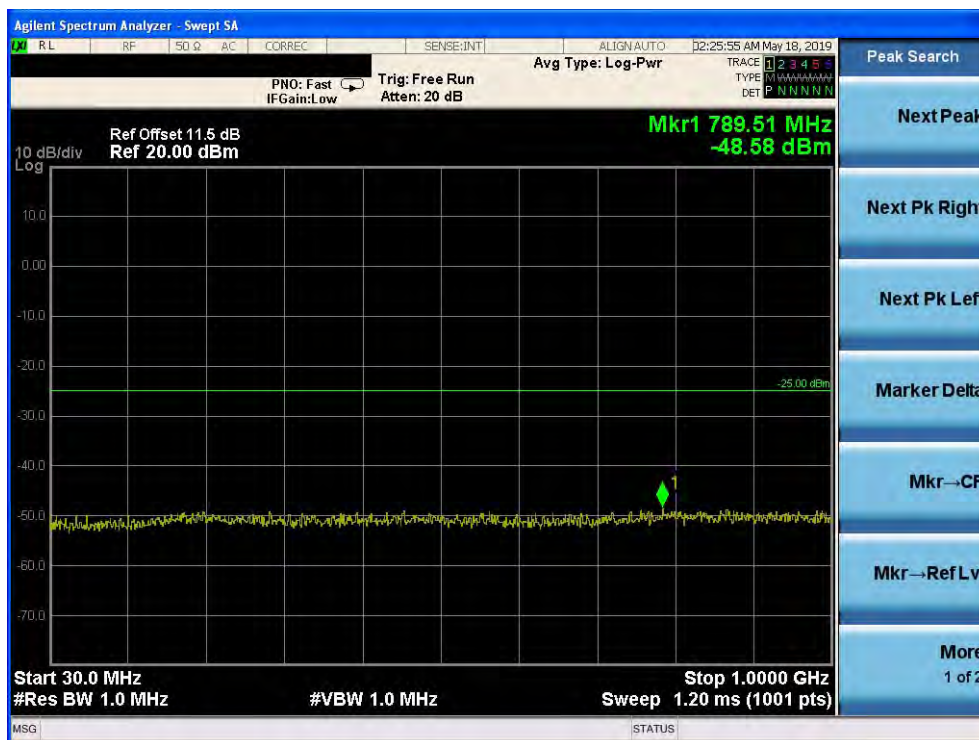
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



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



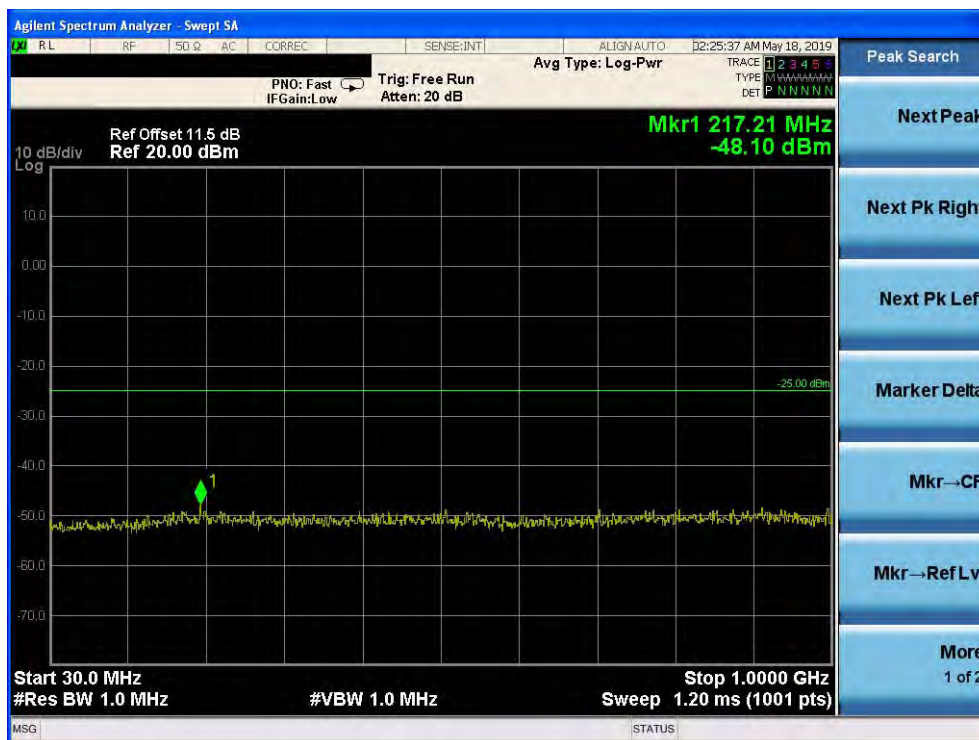
Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



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



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 2
LTE Band 4
LTE Band 5
LTE Band 12
LTE Band 17
LTE Band 7

RESULTS

Pass

8.2 LTE BAND 2

Radiated Power (EIRP) for Band 2									
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	1850.7	-1.75	3.76	28.24	22.73	187.592	Horizontal	Pass
		1880	-1.49	3.91	28.22	22.82	191.398	Horizontal	Pass
		1909.3	-1.50	3.93	28.2	22.77	189.196	Horizontal	Pass
3.0MHz Band QPSK	15/0	1851.5	-1.75	3.77	28.23	22.71	186.624	Horizontal	Pass
		1880	-1.62	3.91	28.24	22.71	186.841	Horizontal	Pass
		1908.5	-1.54	3.94	28.25	22.77	189.256	Horizontal	Pass
5.0MHz Band QPSK	25/0	1852.5	-1.89	3.77	28.31	22.65	184.233	Horizontal	Pass
		1880	-1.60	3.91	28.22	22.71	186.839	Horizontal	Pass
		1907.5	-1.70	3.94	28.2	22.56	180.213	Horizontal	Pass
10.0MHz Band QPSK	50/0	1855	-1.86	3.79	28.33	22.68	185.287	Horizontal	Pass
		1880	-1.49	3.95	28.22	22.78	189.493	Horizontal	Pass
		1905	-1.39	3.97	28.19	22.83	191.798	Horizontal	Pass
15.0MHz Band QPSK	75/0	1857.5	-1.61	3.79	28.34	22.94	196.977	Horizontal	Pass
		1880	-1.33	3.95	28.22	22.94	196.739	Horizontal	Pass
		1902.5	-1.24	3.97	28.18	22.97	197.993	Horizontal	Pass
20.0MHz Band QPSK	100/0	1860	-1.81	3.81	28.35	22.73	187.457	Horizontal	Pass
		1880	-1.58	3.96	28.22	22.68	185.142	Horizontal	Pass
		1900	-1.28	4	28.16	22.88	194.233	Horizontal	Pass
1.4MHz Band QPSK	6/0	1850.7	-1.79	3.76	28.24	22.69	185.940	Vertical	Pass
		1880	-1.59	3.91	28.22	22.72	187.051	Vertical	Pass
		1909.3	-1.60	3.93	28.2	22.67	185.119	Vertical	Pass
3.0MHz Band QPSK	15/0	1851.5	-1.61	3.77	28.23	22.85	192.772	Vertical	Pass
		1880	-1.46	3.91	28.24	22.87	193.542	Vertical	Pass
		1908.5	-1.39	3.94	28.25	22.92	196.042	Vertical	Pass
5.0MHz Band QPSK	25/0	1852.5	-1.81	3.77	28.31	22.73	187.471	Vertical	Pass
		1880	-1.51	3.91	28.22	22.80	190.741	Vertical	Pass
		1907.5	-1.68	3.94	28.2	22.58	181.212	Vertical	Pass
10.0MHz Band	50/0	1855	-1.75	3.79	28.33	22.79	190.297	Vertical	Pass
		1880	-1.54	3.95	28.22	22.73	187.527	Vertical	Pass

QPSK		1905	-1.57	3.97	28.19	22.65	183.991	Vertical	Pass
15.0MHz Band QPSK	75/0	1857.5	-1.72	3.79	28.34	22.83	192.085	Vertical	Pass
		1880	-1.47	3.95	28.22	22.80	190.348	Vertical	Pass
		1902.5	-1.19	3.97	28.18	23.02	200.372	Vertical	Pass
20.0MHz Band QPSK	100/0	1860	-1.73	3.81	28.35	22.81	191.083	Vertical	Pass
		1880	-1.63	3.96	28.22	22.63	183.047	Vertical	Pass
		1900	-1.11	4	28.16	23.05	202.058	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 2									
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 16 QAM	6/0	1850.7	-2.67	3.76	28.24	21.81	151.535	Horizontal	Pass
		1880	-2.44	3.91	28.22	21.87	153.901	Horizontal	Pass
		1909.3	-2.38	3.93	28.2	21.89	154.583	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	1851.5	-2.67	3.77	28.23	21.79	151.103	Horizontal	Pass
		1880	-2.63	3.91	28.24	21.70	148.074	Horizontal	Pass
		1908.5	-2.48	3.94	28.25	21.83	152.334	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	1852.5	-2.76	3.77	28.31	21.78	150.498	Horizontal	Pass
		1880	-2.36	3.91	28.22	21.95	156.511	Horizontal	Pass
		1907.5	-2.48	3.94	28.2	21.78	150.802	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	1855	-2.70	3.79	28.33	21.84	152.710	Horizontal	Pass
		1880	-2.38	3.95	28.22	21.89	154.675	Horizontal	Pass
		1905	-2.43	3.97	28.19	21.79	150.897	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	1857.5	-2.76	3.79	28.34	21.79	151.132	Horizontal	Pass
		1880	-2.49	3.95	28.22	21.78	150.706	Horizontal	Pass
		1902.5	-2.40	3.97	28.18	21.81	151.818	Horizontal	Pass
20.0MHz Band 16 QAM	100/0	1860	-2.72	3.81	28.35	21.82	152.155	Horizontal	Pass
		1880	-2.35	3.96	28.22	21.91	155.209	Horizontal	Pass
		1900	-2.46	4	28.16	21.70	147.928	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	1850.7	-2.61	3.76	28.24	21.87	153.667	Vertical	Pass
		1880	-2.54	3.91	28.22	21.77	150.366	Vertical	Pass
		1909.3	-2.33	3.93	28.2	21.94	156.244	Vertical	Pass
3.0MHz Band 16 QAM	15/0	1851.5	-2.69	3.77	28.23	21.77	150.429	Vertical	Pass
		1880	-2.62	3.91	28.24	21.71	148.413	Vertical	Pass
		1908.5	-2.46	3.94	28.25	21.85	153.238	Vertical	Pass
5.0MHz Band 16 QAM	25/0	1852.5	-2.71	3.77	28.31	21.83	152.525	Vertical	Pass
		1880	-2.56	3.91	28.22	21.75	149.738	Vertical	Pass
		1907.5	-2.35	3.94	28.2	21.91	155.390	Vertical	Pass
10.0MHz Band 16 QAM	50/0	1855	-2.87	3.79	28.33	21.67	146.789	Vertical	Pass
		1880	-2.56	3.95	28.22	21.71	148.286	Vertical	Pass
		1905	-2.65	3.97	28.19	21.57	143.396	Vertical	Pass
15.0MHz Band	75/0	1857.5	-2.88	3.79	28.34	21.67	146.804	Vertical	Pass
		1880	-2.53	3.95	28.22	21.74	149.398	Vertical	Pass

16 QAM		1902.5	-2.48	3.97	28.18	21.73	149.072	Vertical	Pass
20.0MH	100/0	1860	-2.67	3.81	28.35	21.87	153.730	Vertical	Pass
z Band		1880	-2.30	3.96	28.22	21.96	157.187	Vertical	Pass
16 QAM		1900	-2.34	4	28.16	21.82	152.213	Vertical	Pass

Note:

SG Level= Signal generator output

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

8.3 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	-1.69	3.12	27.58	22.77	189.319	Horizontal	Pass
		1732.5	-1.78	3.27	27.61	22.56	180.439	Horizontal	Pass
		1754.3	-1.42	3.29	27.63	22.92	196.101	Horizontal	Pass
3.0MHz Band QPSK	15/0	1711.5	-1.81	3.13	27.61	22.67	184.972	Horizontal	Pass
		1732.5	-1.58	3.27	27.61	22.76	188.969	Horizontal	Pass
		1753.5	-1.50	3.3	27.62	22.82	191.311	Horizontal	Pass
5.0MHz Band QPSK	25/0	1712.5	-1.48	3.13	27.63	23.02	200.464	Horizontal	Pass
		1732.5	-1.18	3.27	27.61	23.16	206.812	Horizontal	Pass
		1752.5	-1.24	3.3	27.6	23.06	202.109	Horizontal	Pass
10.0MHz Band QPSK	50/0	1715	-1.52	3.15	27.64	22.97	198.203	Horizontal	Pass
		1732.5	-1.51	3.31	27.61	22.79	190.055	Horizontal	Pass
		1750	-1.41	3.33	27.59	22.85	192.966	Horizontal	Pass
15.0MHz Band QPSK	75/0	1717.5	-1.83	3.15	27.65	22.67	184.890	Horizontal	Pass
		1732.5	-1.41	3.31	27.61	22.89	194.537	Horizontal	Pass
		1747.5	-1.43	3.33	27.57	22.81	190.980	Horizontal	Pass
20.0MHz Band QPSK	100/0	1720	-1.65	3.17	27.66	22.84	192.112	Horizontal	Pass
		1732.5	-1.42	3.32	27.61	22.87	193.564	Horizontal	Pass
		1745	-1.53	3.36	27.56	22.67	184.769	Horizontal	Pass
1.4MHz Band QPSK	6/0	1710.7	-1.64	3.12	27.58	22.82	191.350	Vertical	Pass
		1732.5	-1.58	3.27	27.61	22.76	188.681	Vertical	Pass
		1754.3	-1.56	3.29	27.63	22.78	189.627	Vertical	Pass
3.0MHz Band QPSK	15/0	1711.5	-1.62	3.13	27.61	22.86	193.144	Vertical	Pass
		1732.5	-1.44	3.27	27.61	22.90	195.018	Vertical	Pass
		1753.5	-1.60	3.3	27.62	22.72	187.214	Vertical	Pass
5.0MHz Band QPSK	25/0	1712.5	-1.36	3.13	27.63	23.14	206.141	Vertical	Pass
		1732.5	-1.27	3.27	27.61	23.07	202.577	Vertical	Pass
		1752.5	-1.19	3.3	27.6	23.11	204.471	Vertical	Pass
10.0MHz Band QPSK	50/0	1715	-1.63	3.15	27.64	22.86	193.016	Vertical	Pass
		1732.5	-1.48	3.31	27.61	22.82	191.537	Vertical	Pass
		1750	-1.41	3.33	27.59	22.85	192.852	Vertical	Pass

15.0MH z Band QPSK	75/0	1717.5	-1.76	3.15	27.65	22.74	187.852	Vertical	Pass
		1732.5	-1.36	3.31	27.61	22.94	196.924	Vertical	Pass
		1747.5	-1.30	3.33	27.57	22.94	196.613	Vertical	Pass
20.0MH z Band QPSK	100/0	1720	-1.27	3.17	27.66	23.22	209.725	Vertical	Pass
		1732.5	-1.45	3.32	27.61	22.84	192.179	Vertical	Pass
		1745	-1.42	3.36	27.56	22.78	189.847	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 16 QAM	6/0	1710.7	-2.54	3.12	27.58	21.92	155.589	Horizontal	Pass
		1732.5	-2.41	3.27	27.61	21.93	155.826	Horizontal	Pass
		1754.3	-2.53	3.29	27.63	21.81	151.863	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-3.33	3.13	27.61	21.15	130.439	Horizontal	Pass
		1732.5	-3.19	3.27	27.61	21.15	130.386	Horizontal	Pass
		1753.5	-3.10	3.3	27.62	21.22	132.292	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-3.47	3.13	27.63	21.03	126.828	Horizontal	Pass
		1732.5	-3.34	3.27	27.61	21.00	125.797	Horizontal	Pass
		1752.5	-2.35	3.3	27.6	21.95	156.625	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	1715	-2.70	3.15	27.64	21.79	151.029	Horizontal	Pass
		1732.5	-2.40	3.31	27.61	21.90	154.801	Horizontal	Pass
		1750	-2.61	3.33	27.59	21.65	146.148	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	1717.5	-2.54	3.15	27.65	21.96	156.886	Horizontal	Pass
		1732.5	-2.37	3.31	27.61	21.93	155.900	Horizontal	Pass
		1747.5	-2.27	3.33	27.57	21.97	157.244	Horizontal	Pass
20.0MHz Band 16 QAM	100/0	1720	-2.79	3.17	27.66	21.70	148.060	Horizontal	Pass
		1732.5	-2.57	3.32	27.61	21.72	148.548	Horizontal	Pass
		1745	-2.40	3.36	27.56	21.80	151.453	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	1710.7	-2.59	3.12	27.58	21.87	153.981	Vertical	Pass
		1732.5	-2.46	3.27	27.61	21.88	154.046	Vertical	Pass
		1754.3	-2.47	3.29	27.63	21.87	153.767	Vertical	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-3.18	3.13	27.61	21.30	134.774	Vertical	Pass
		1732.5	-3.13	3.27	27.61	21.21	132.181	Vertical	Pass
		1753.5	-3.06	3.3	27.62	21.26	133.715	Vertical	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-3.39	3.13	27.63	21.11	129.159	Vertical	Pass
		1732.5	-3.17	3.27	27.61	21.17	131.036	Vertical	Pass
		1752.5	-3.29	3.3	27.6	21.01	126.302	Vertical	Pass
10.0MHz Band 16 QAM	50/0	1715	-2.58	3.15	27.64	21.91	155.160	Vertical	Pass
		1732.5	-2.37	3.31	27.61	21.93	155.871	Vertical	Pass
		1750	-2.56	3.33	27.59	21.70	147.815	Vertical	Pass
15.0MHz Band	75/0	1717.5	-2.73	3.15	27.65	21.77	150.309	Vertical	Pass
		1732.5	-2.58	3.31	27.61	21.72	148.653	Vertical	Pass

16 QAM		1747.5	-2.59	3.33	27.57	21.65	146.264	Vertical	Pass
20.0MH	100/0	1720	-2.65	3.17	27.66	21.84	152.922	Vertical	Pass
z Band		1732.5	-2.49	3.32	27.61	21.80	151.415	Vertical	Pass
16 QAM		1745	-2.19	3.36	27.56	22.01	158.973	Vertical	Pass

Note:

SG Level= Signal generator output

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

8.4 LTE BAND 5

Radiated Power (ERP) for Band 5										
Mode	RB/ RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	6/0	824.7	6.09	2.01	19.68	2.15	21.61	145.023	Horizontal	Pass
		836.5	6.14	2.01	19.77	2.15	21.75	149.791	Horizontal	Pass
		848.3	6.07	2.02	19.82	2.15	21.72	148.442	Horizontal	Pass
3.0MHz Band QPSK	15/0	825.5	6.21	2.01	19.7	2.15	21.75	149.715	Horizontal	Pass
		836.5	6.13	2.01	19.77	2.15	21.74	149.193	Horizontal	Pass
		847.5	6.06	2.02	19.81	2.15	21.70	147.969	Horizontal	Pass
5.0MHz Band QPSK	25/0	826.5	5.96	2.01	19.71	2.15	21.51	141.681	Horizontal	Pass
		836.5	5.93	2.01	19.77	2.15	21.54	142.683	Horizontal	Pass
		846.5	5.90	2.02	19.79	2.15	21.52	141.895	Horizontal	Pass
10.0MHz Band QPSK	50/0	829	5.96	2.01	19.73	2.15	21.53	142.312	Horizontal	Pass
		836.5	5.93	2.01	19.77	2.15	21.54	142.435	Horizontal	Pass
		844	5.95	2.02	19.78	2.15	21.56	143.204	Horizontal	Pass
1.4MHz Band QPSK	6/0	824.7	6.23	2.01	19.68	2.15	21.75	149.728	Vertical	Pass
		836.5	6.13	2.01	19.77	2.15	21.74	149.343	Vertical	Pass
		848.3	6.05	2.02	19.82	2.15	21.70	148.031	Vertical	Pass
3.0MHz Band QPSK	15/0	825.5	6.19	2.01	19.7	2.15	21.73	148.881	Vertical	Pass
		836.5	6.00	2.01	19.77	2.15	21.61	144.969	Vertical	Pass
		847.5	6.03	2.02	19.81	2.15	21.67	146.763	Vertical	Pass
5.0MHz Band QPSK	25/0	826.5	5.94	2.01	19.71	2.15	21.49	140.796	Vertical	Pass
		836.5	5.83	2.01	19.77	2.15	21.44	139.378	Vertical	Pass
		846.5	6.02	2.02	19.79	2.15	21.64	145.769	Vertical	Pass
10.0MHz Band QPSK	50/0	829	6.11	2.01	19.73	2.15	21.68	147.176	Vertical	Pass
		836.5	6.00	2.01	19.77	2.15	21.61	144.790	Vertical	Pass
		844	6.29	2.02	19.78	2.15	21.90	154.963	Vertical	Pass

Note:

SG Level= Signal generator output

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