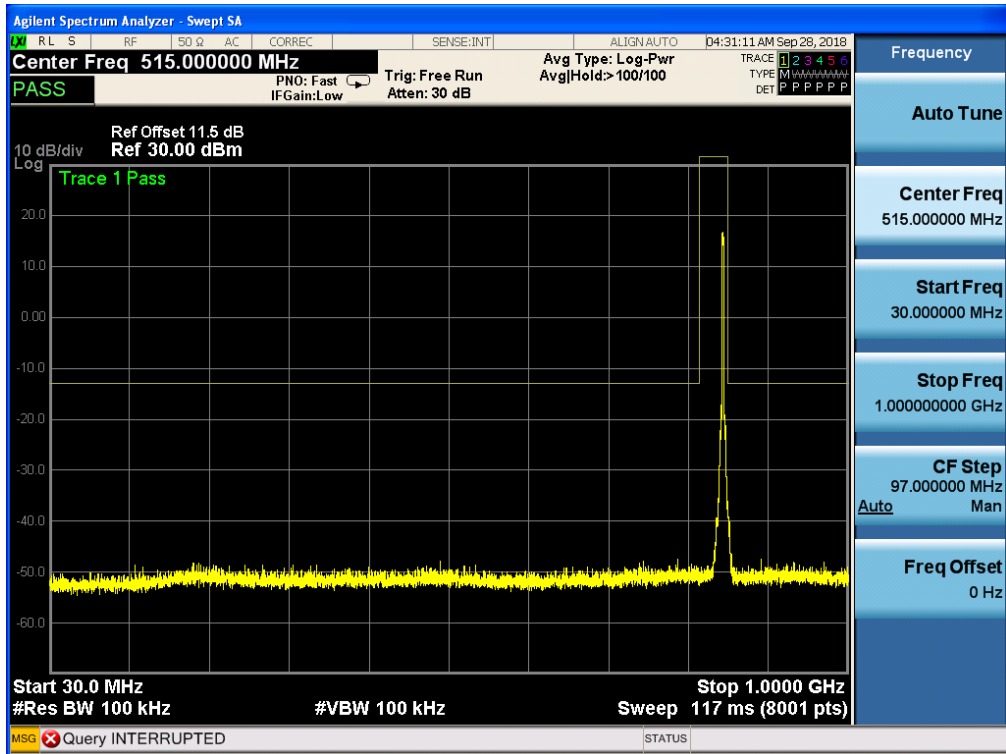
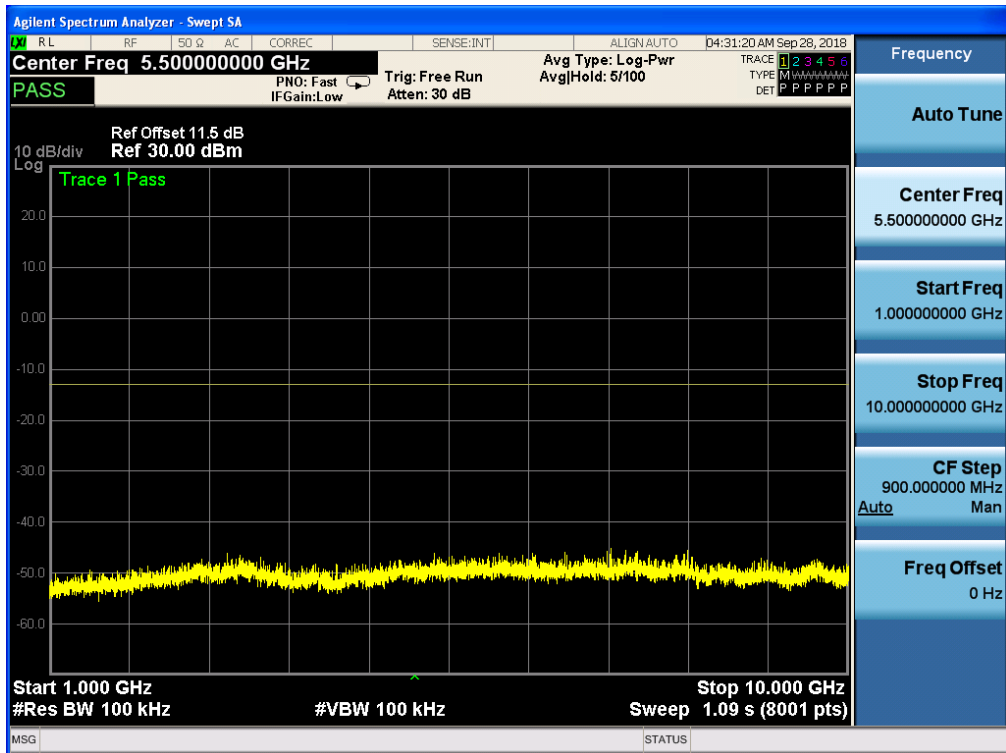


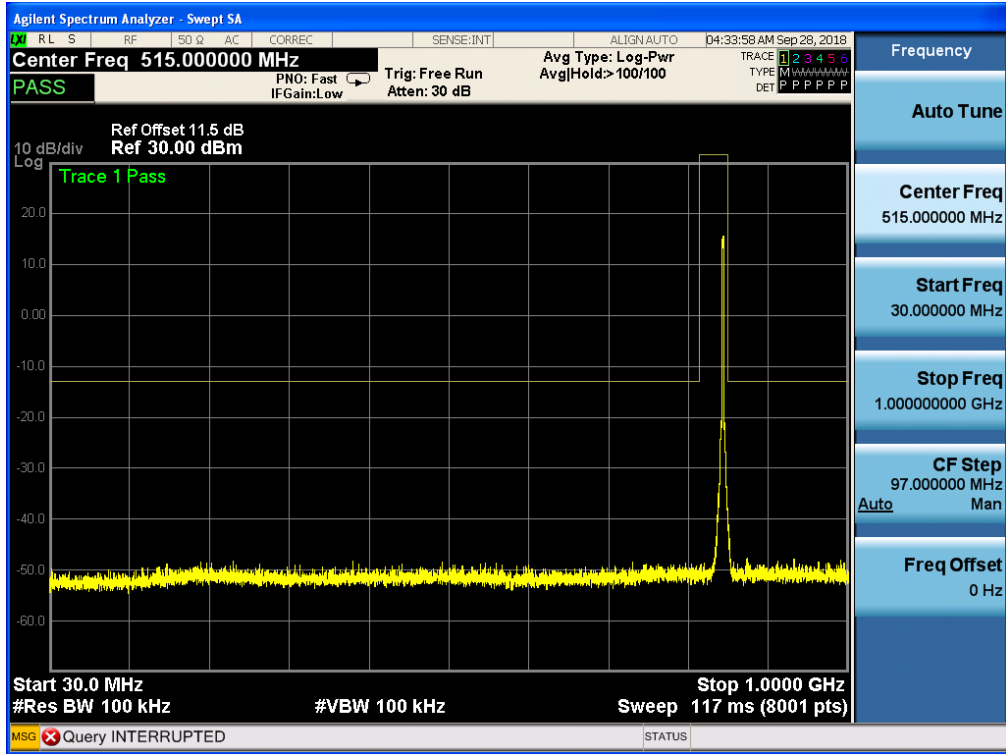
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



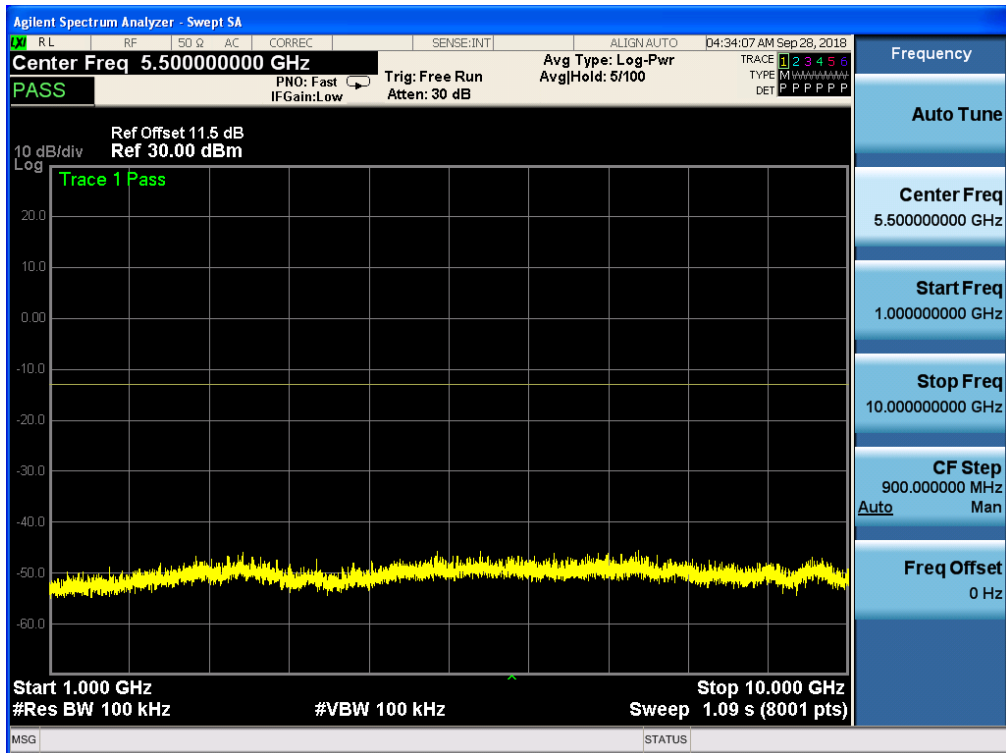
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



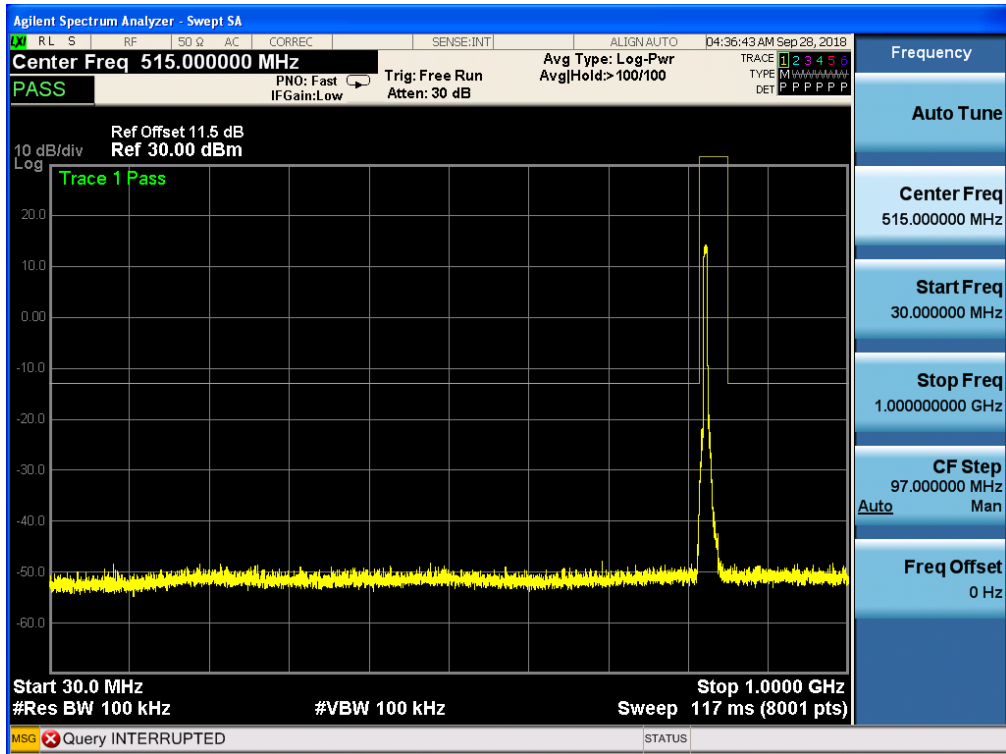
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



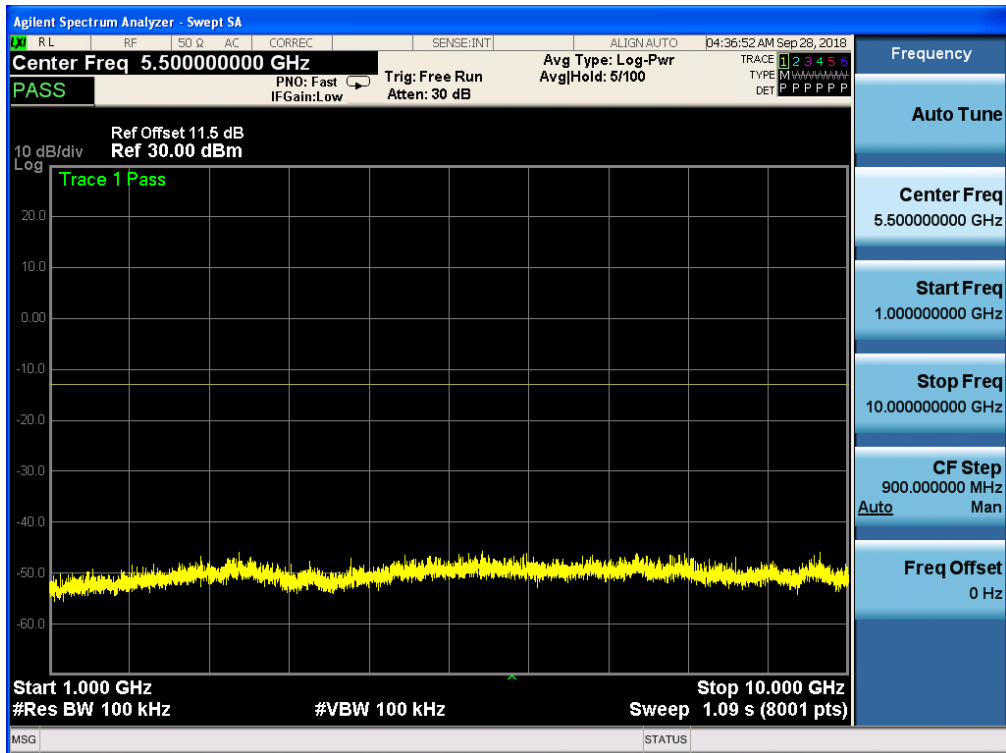
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



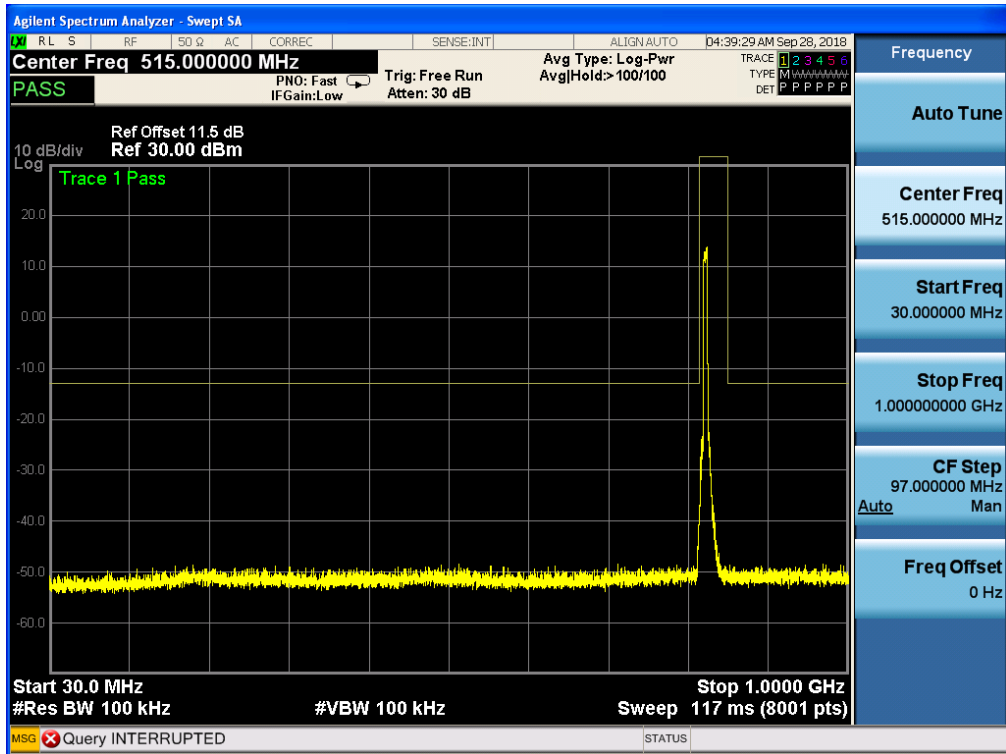
Band 5, UL Channel 20425, UL Frequency 826.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



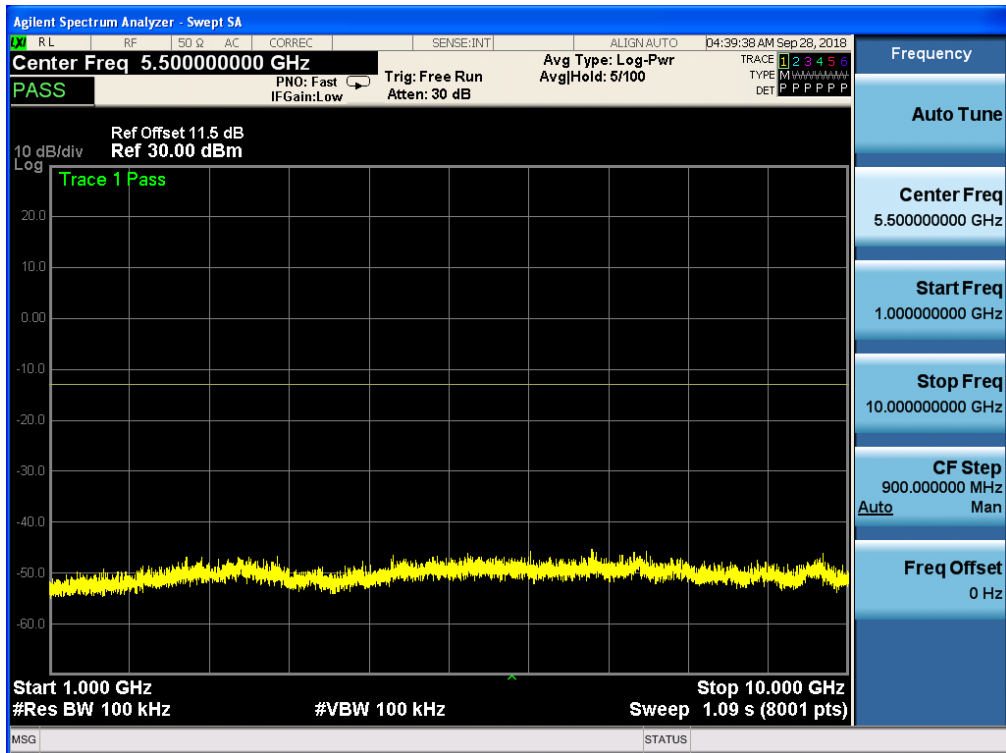
Band 5, UL Channel 20425, UL Frequency 826.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



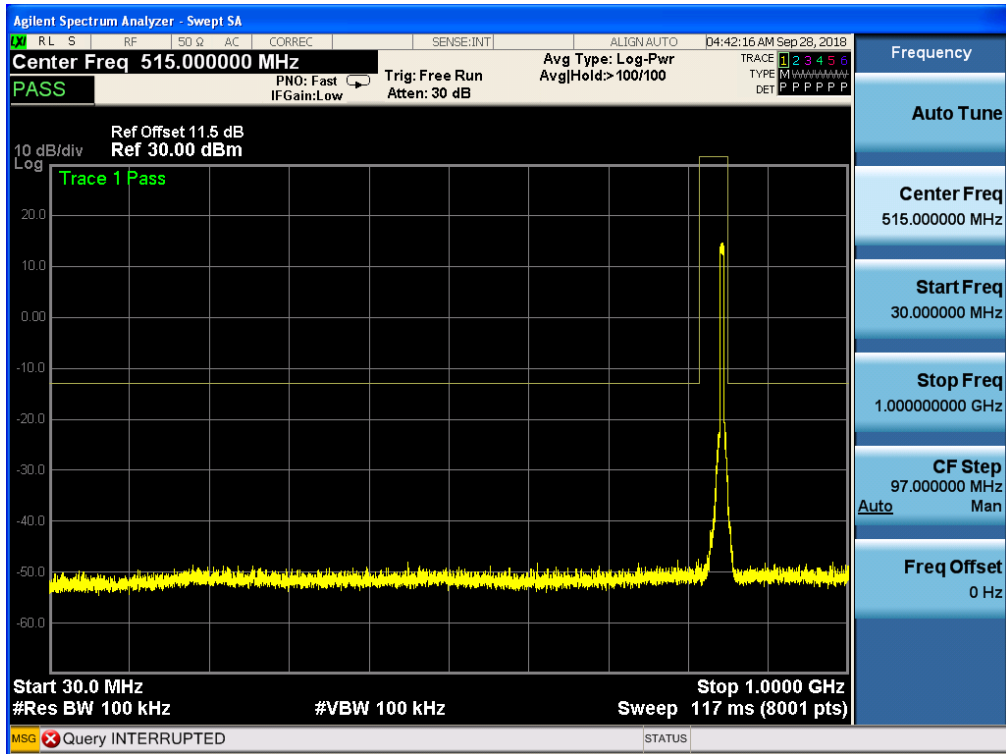
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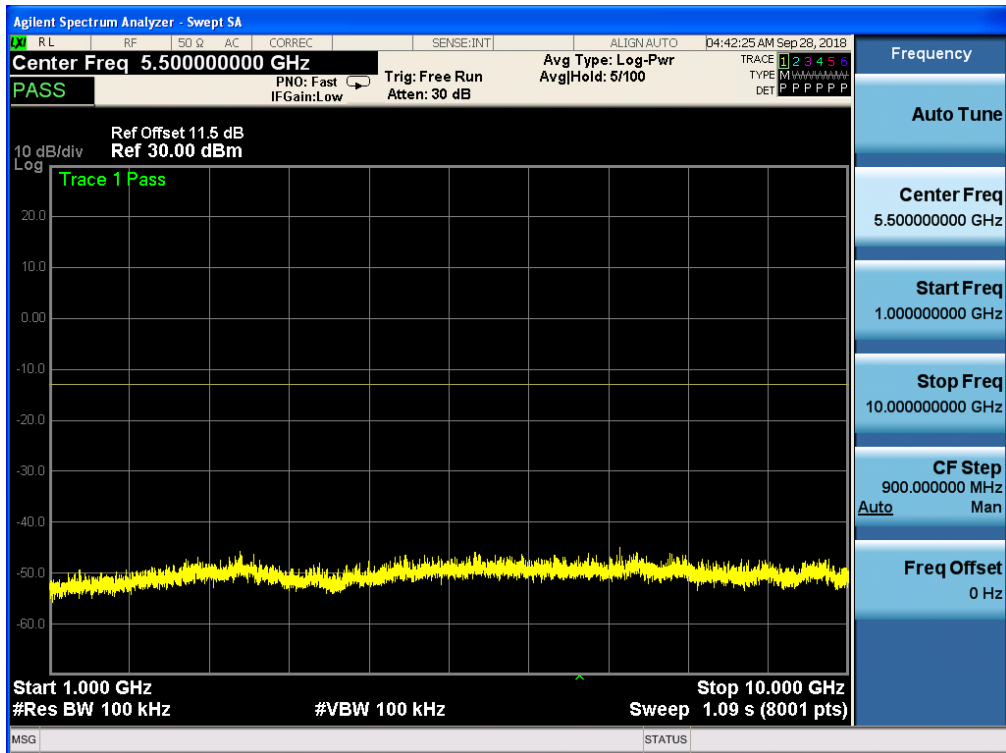
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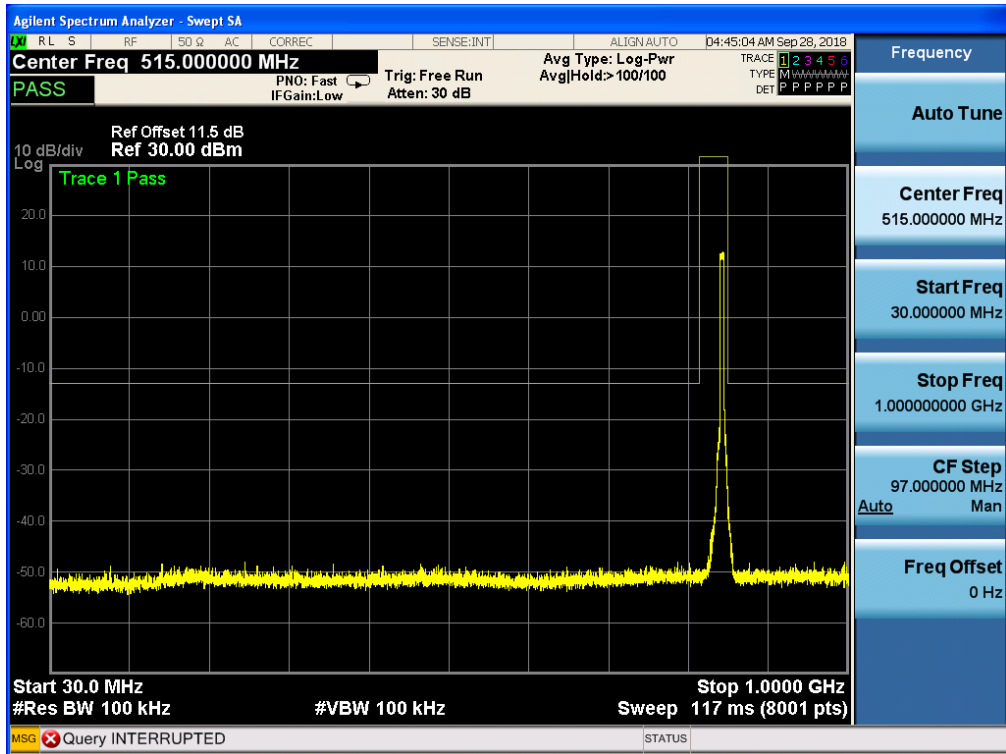
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



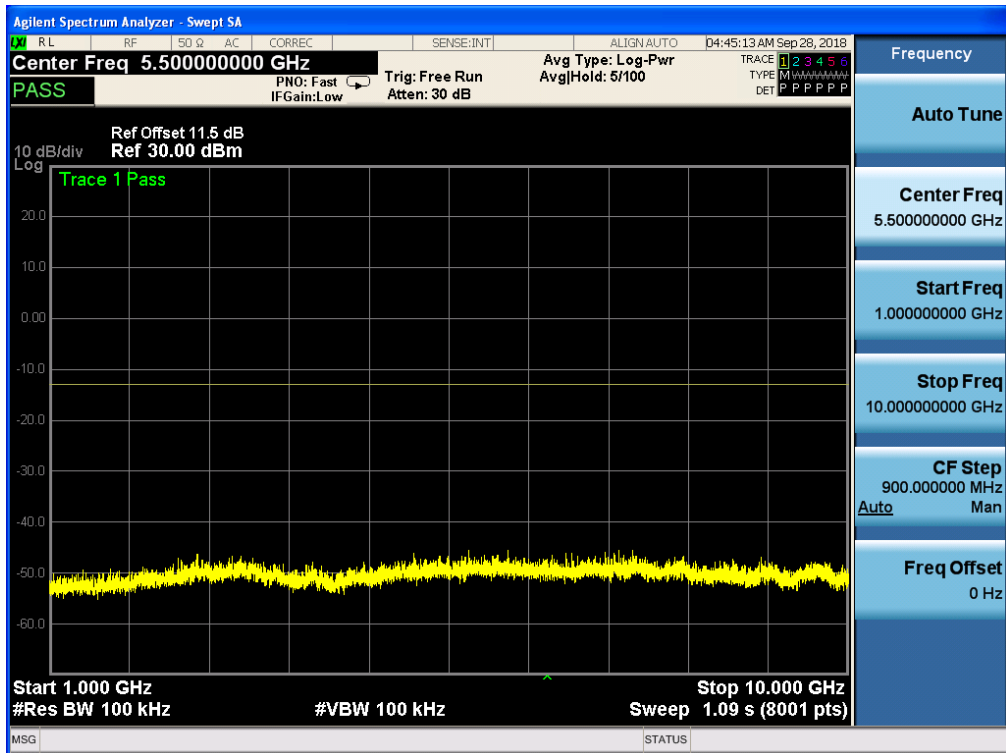
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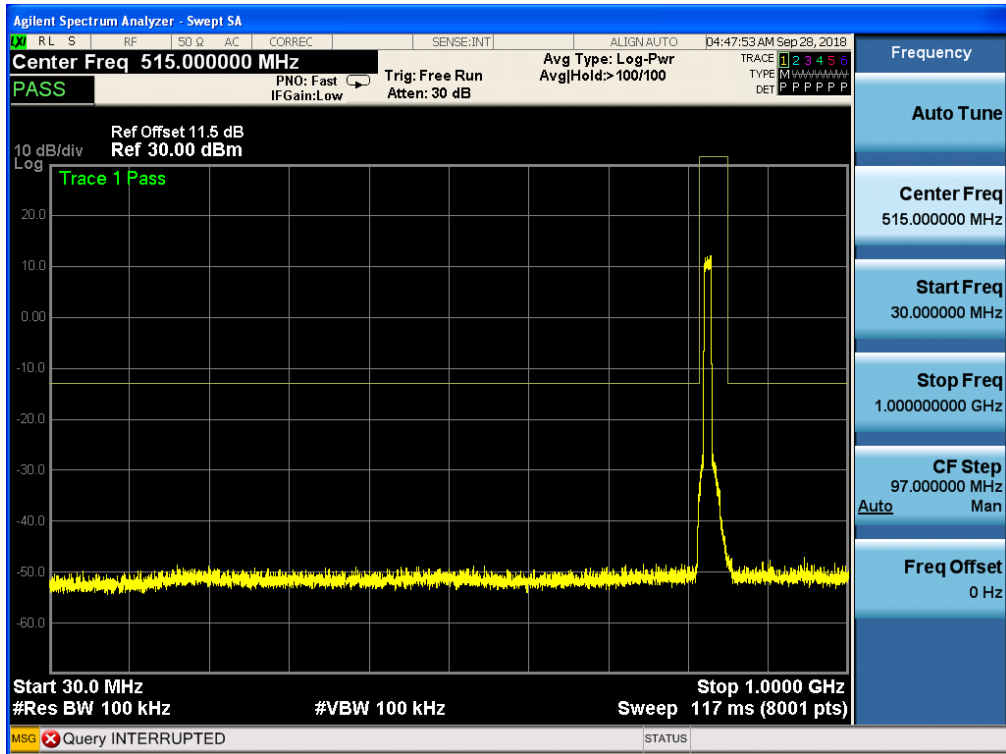
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



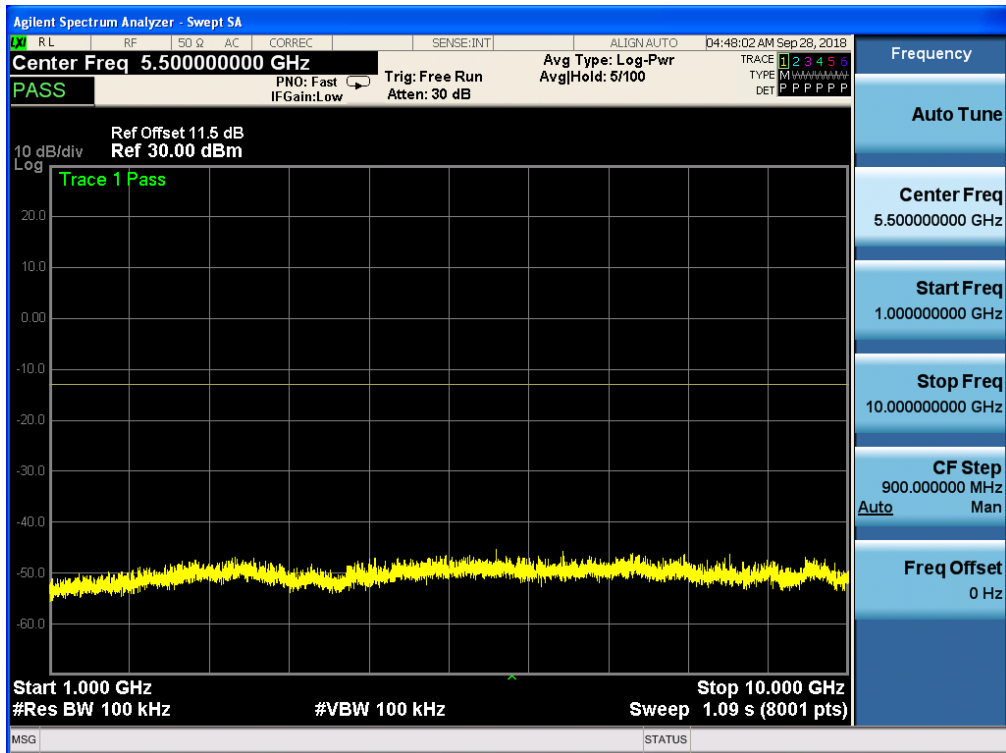
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



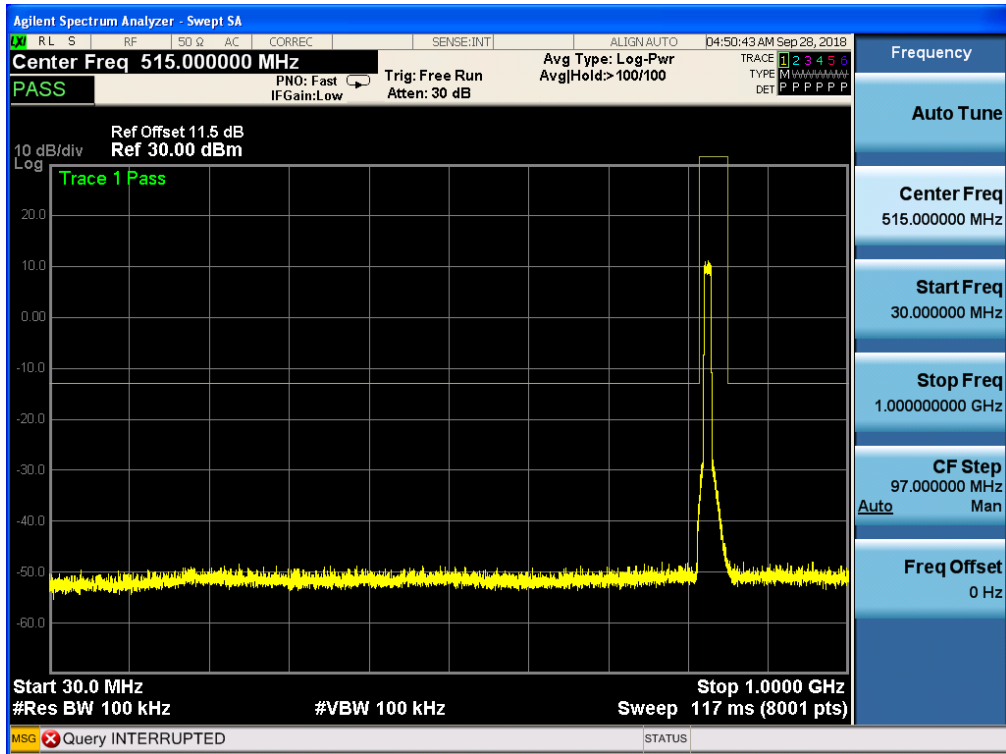
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



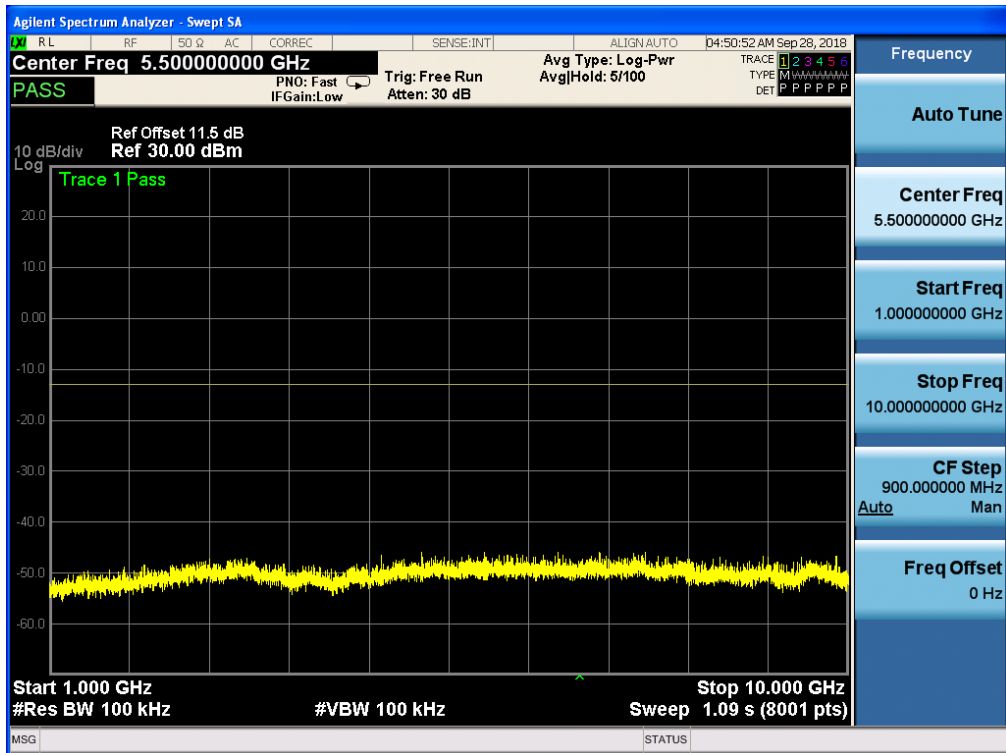
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



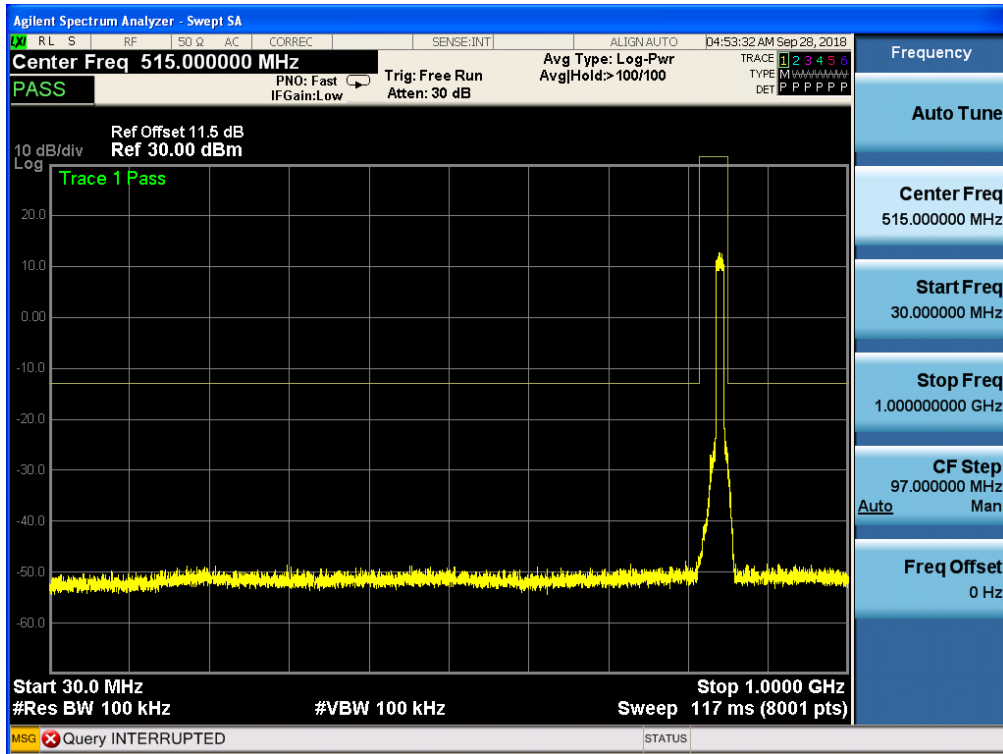
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



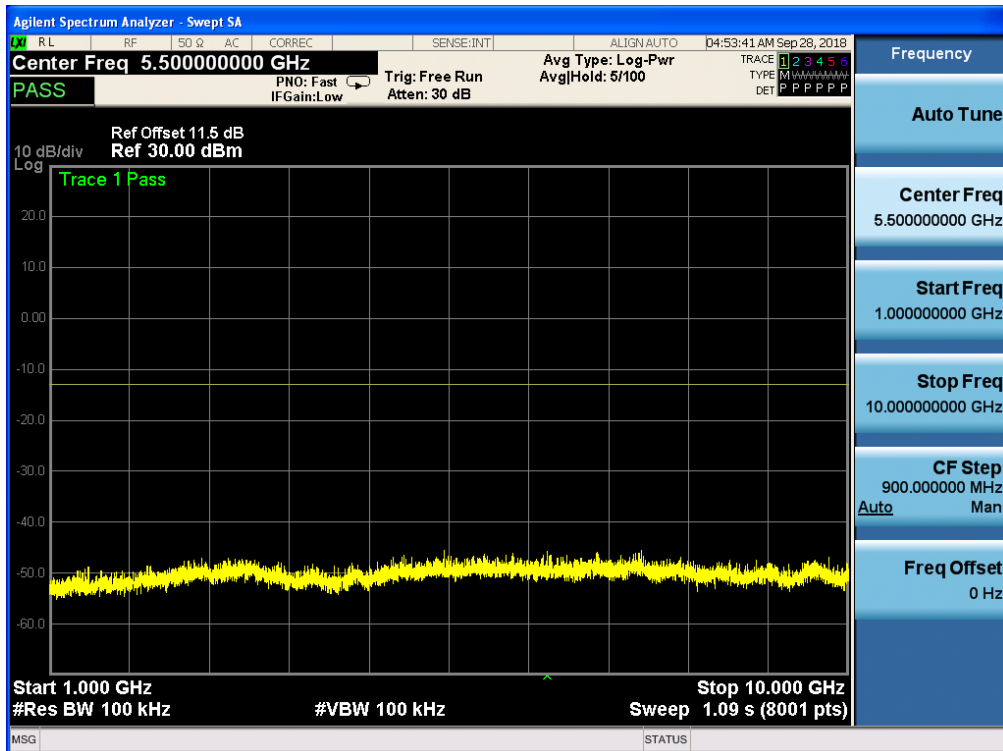
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



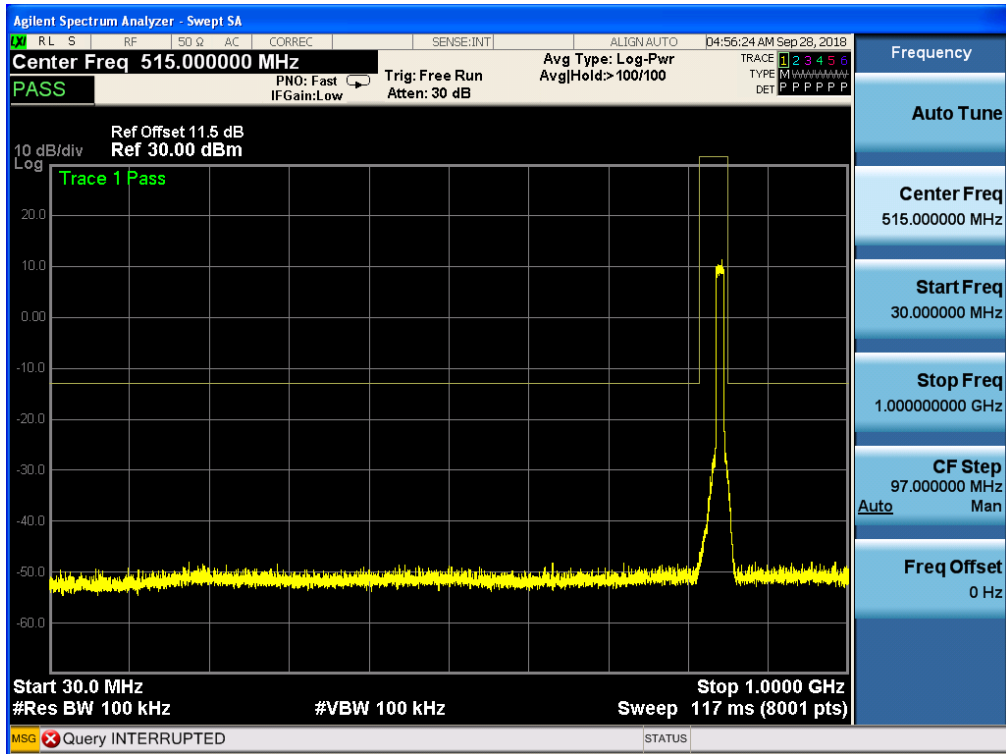
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



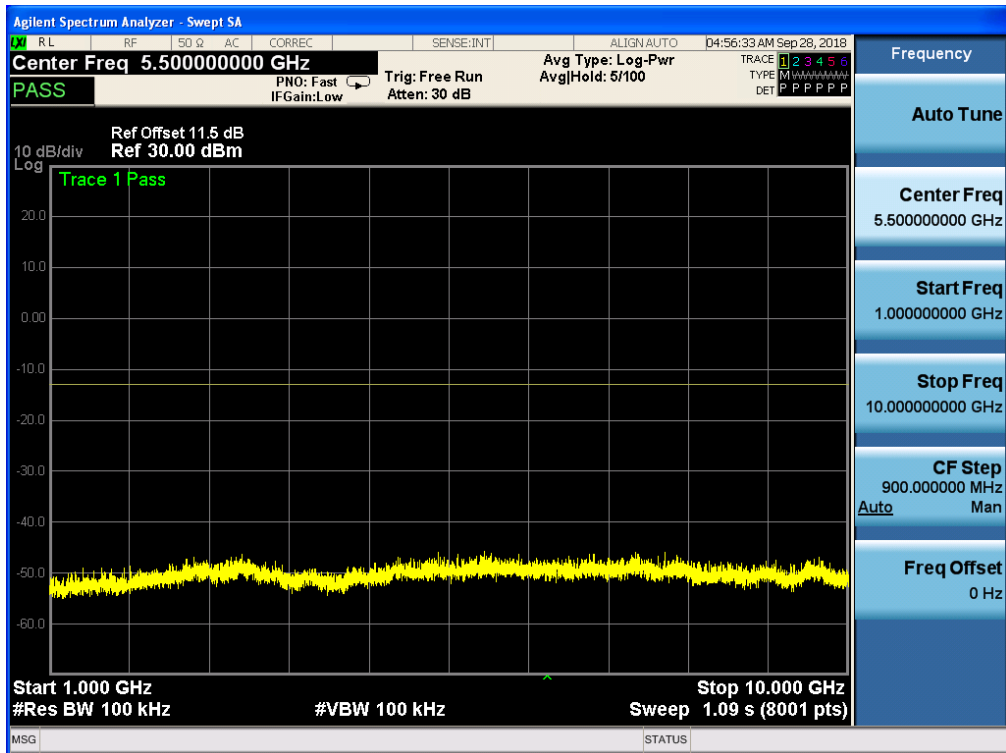
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



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

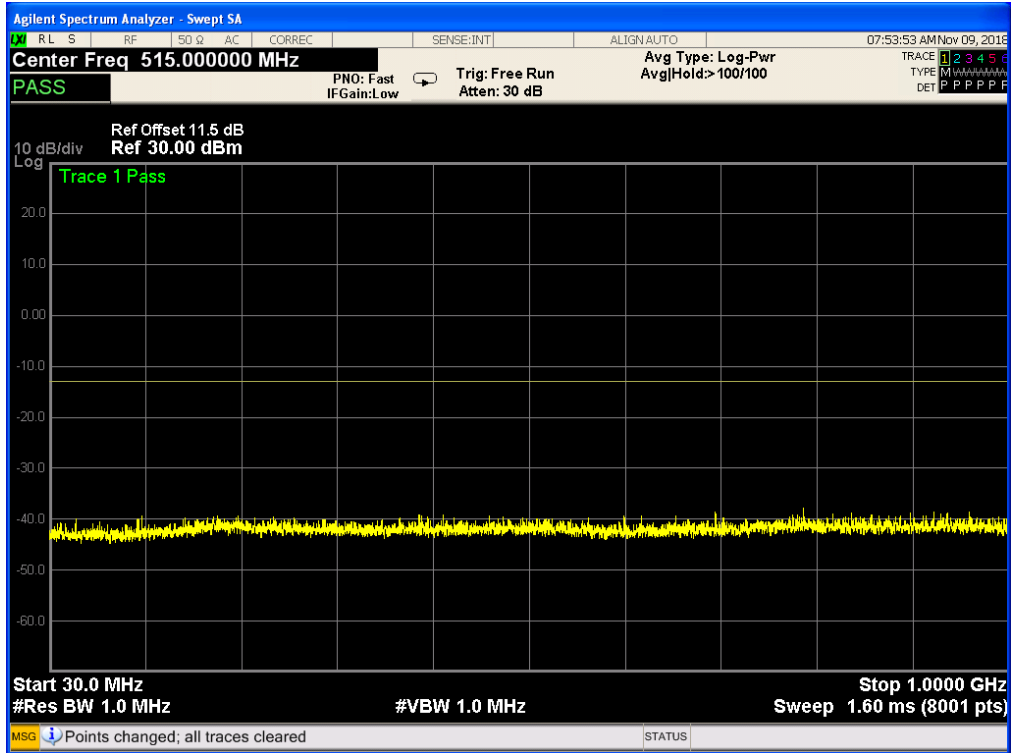


Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

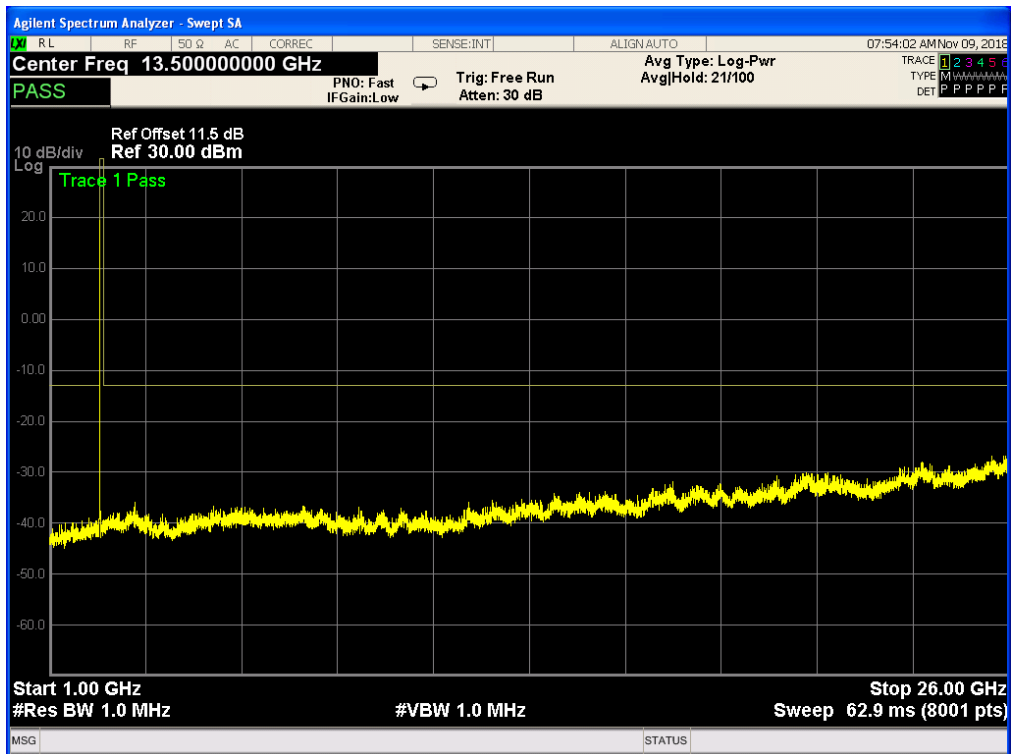


7.2 LTE BAND 40(2305-2320MHz)

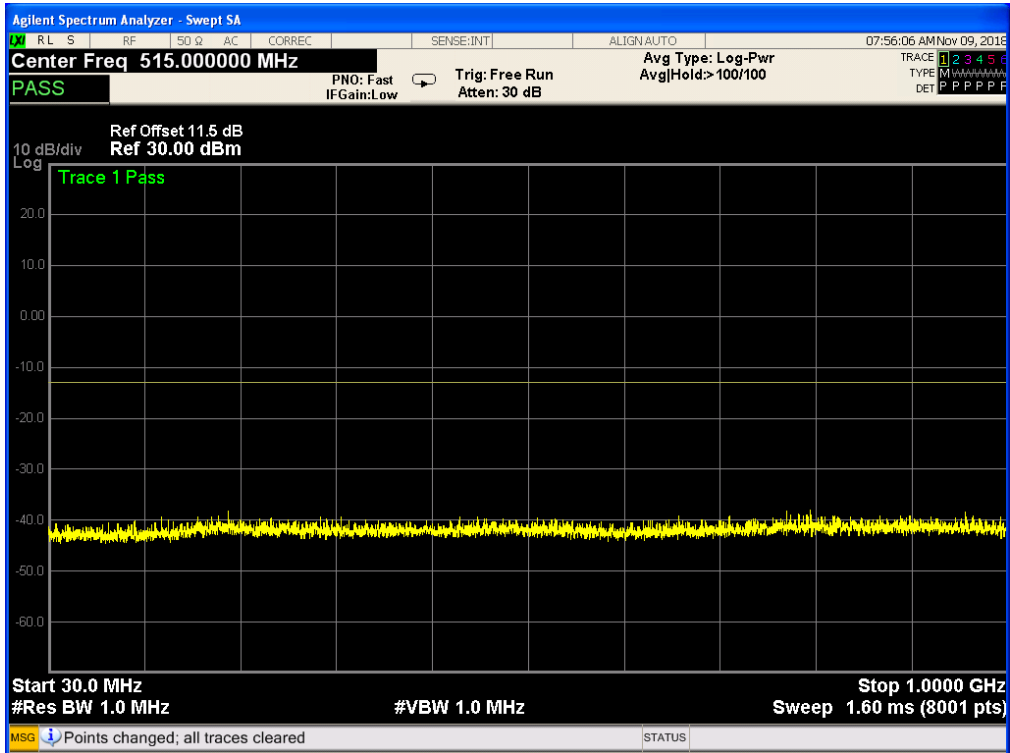
Band 40, UL Channel 38725, UL Frequency 2307.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



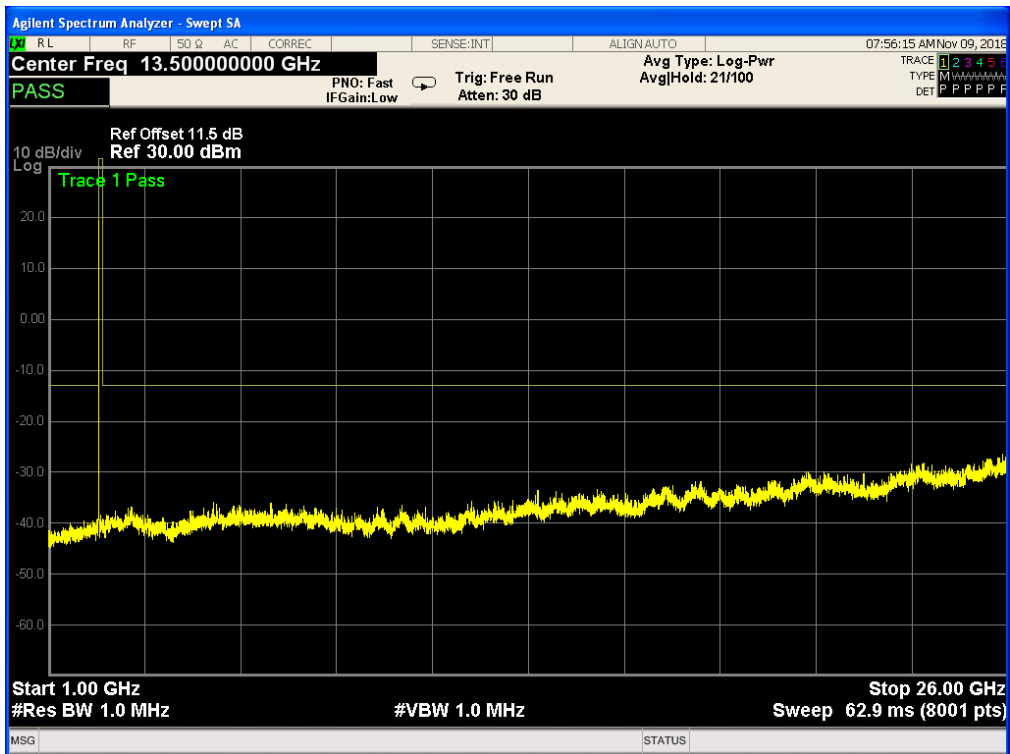
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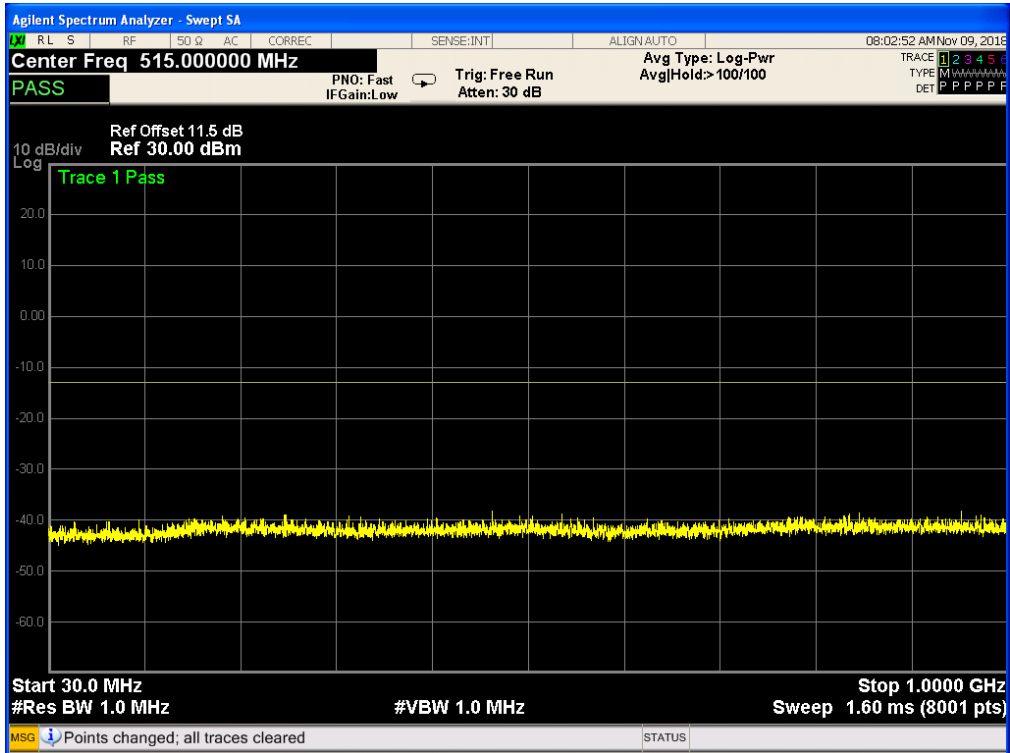
Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



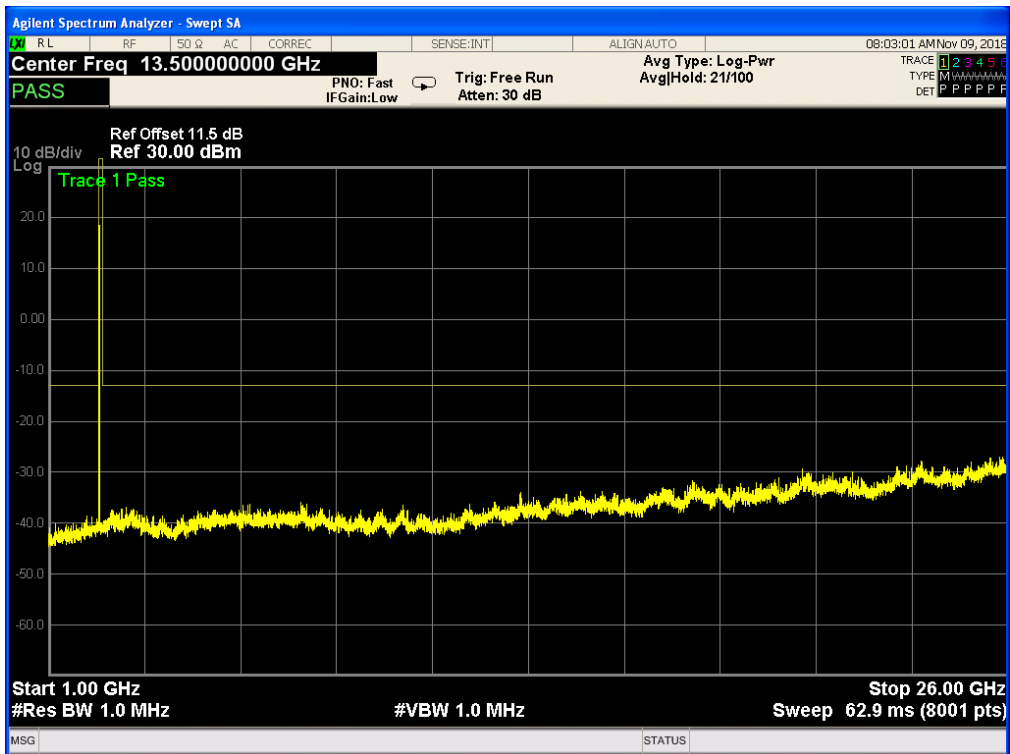
Band 40,UL Channel 38725,UL Frequency 2307.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



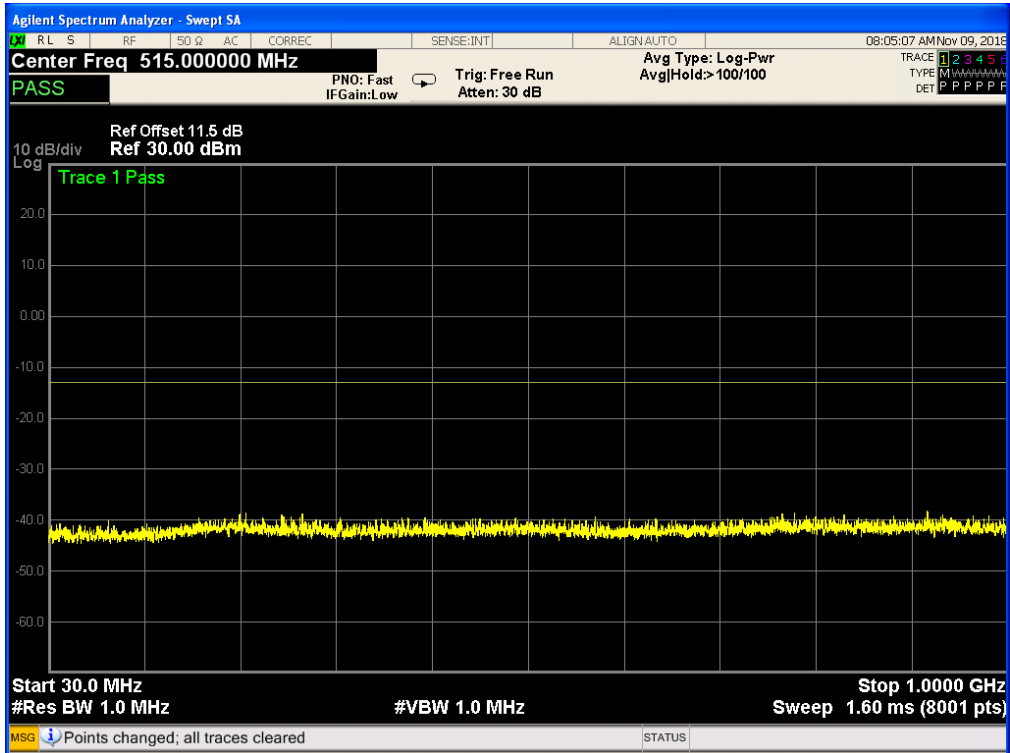
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



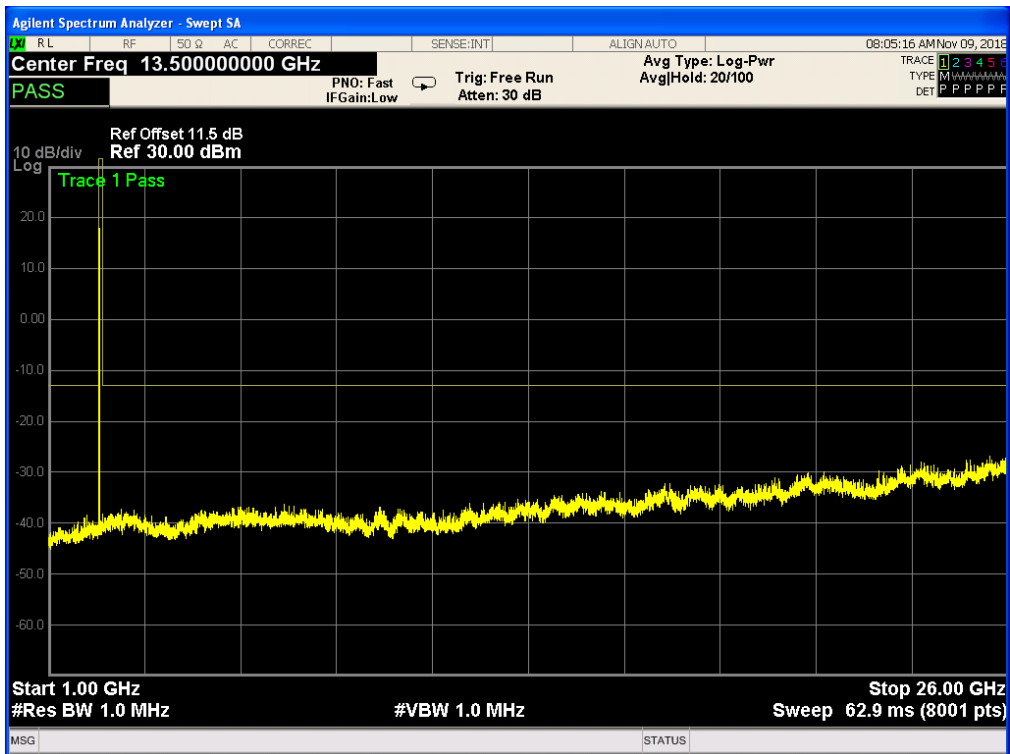
Band 40, UL Channel 38825, UL Frequency 2317.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



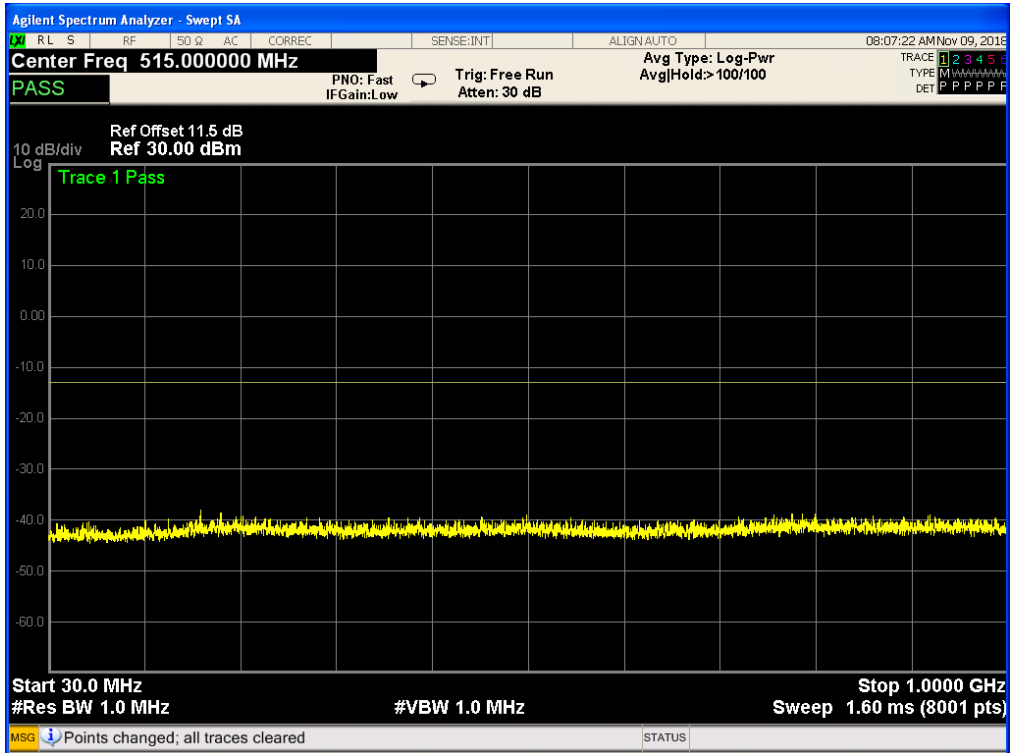
Band 40,UL Channel 38825,UL Frequency 2317.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



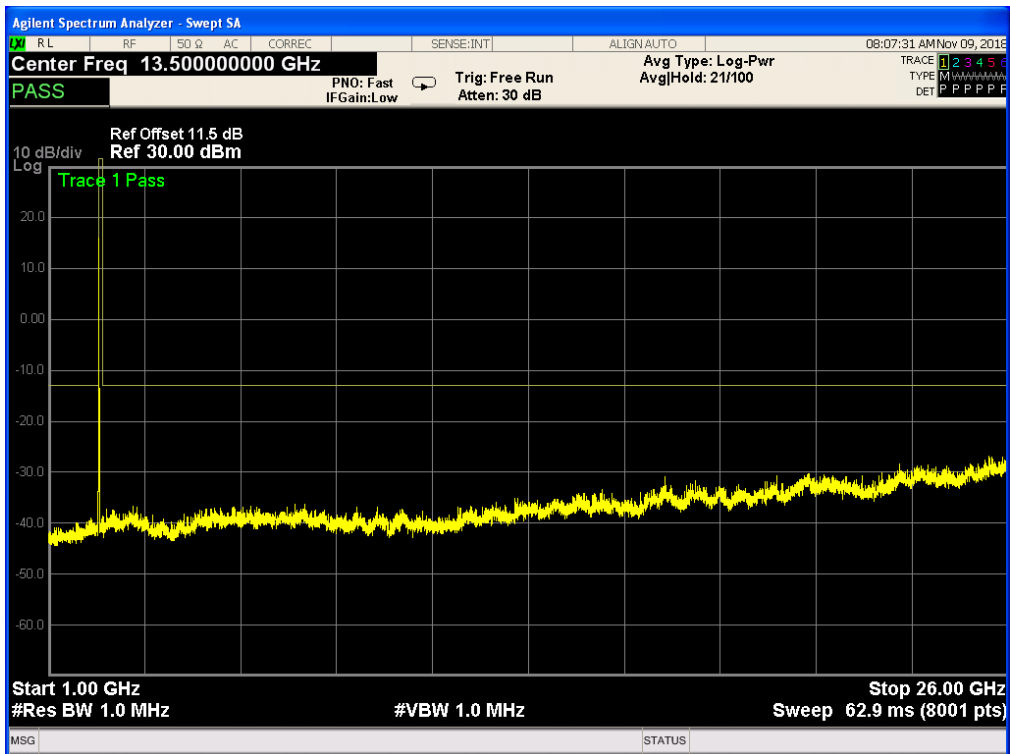
Band 40,UL Channel 38825,UL Frequency 2317.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



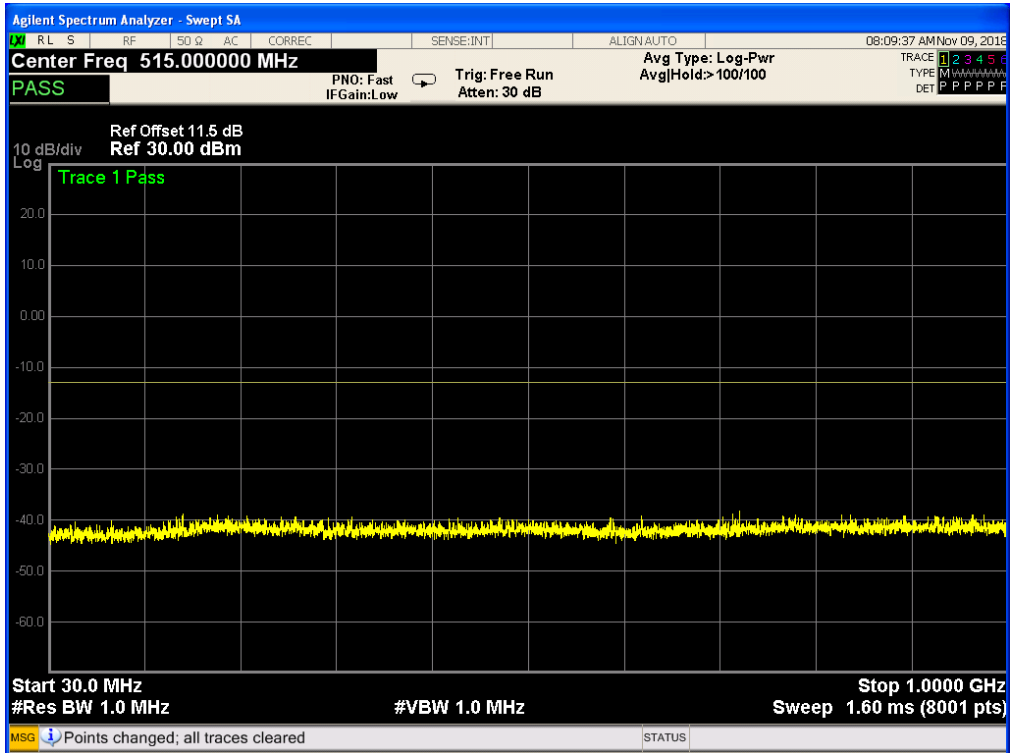
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



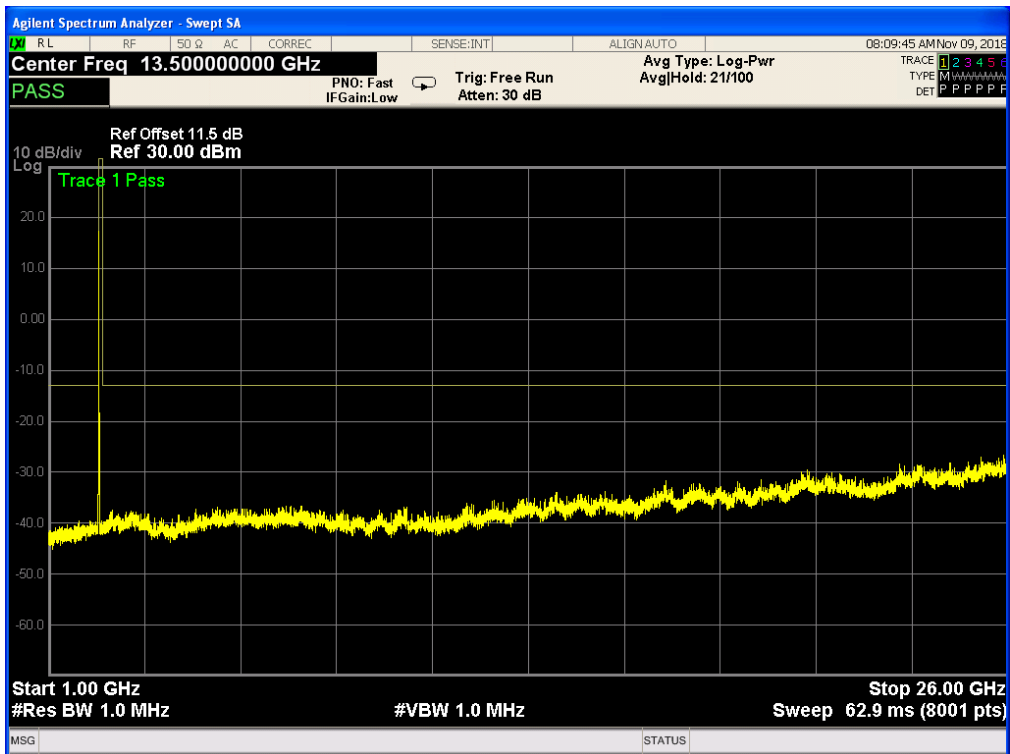
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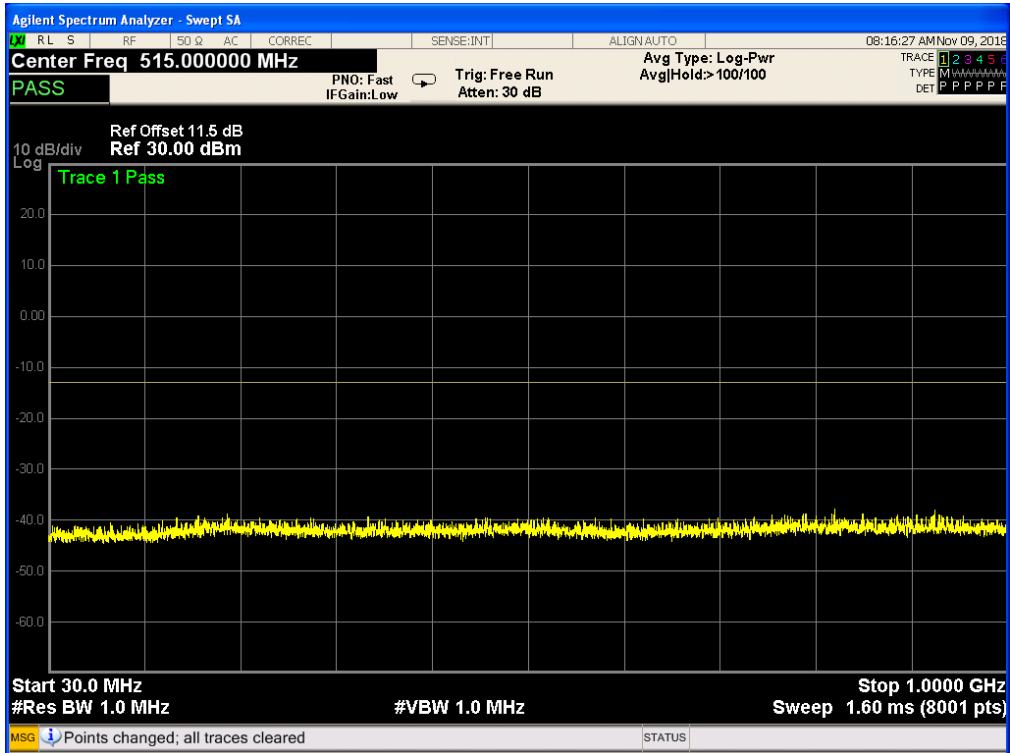
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



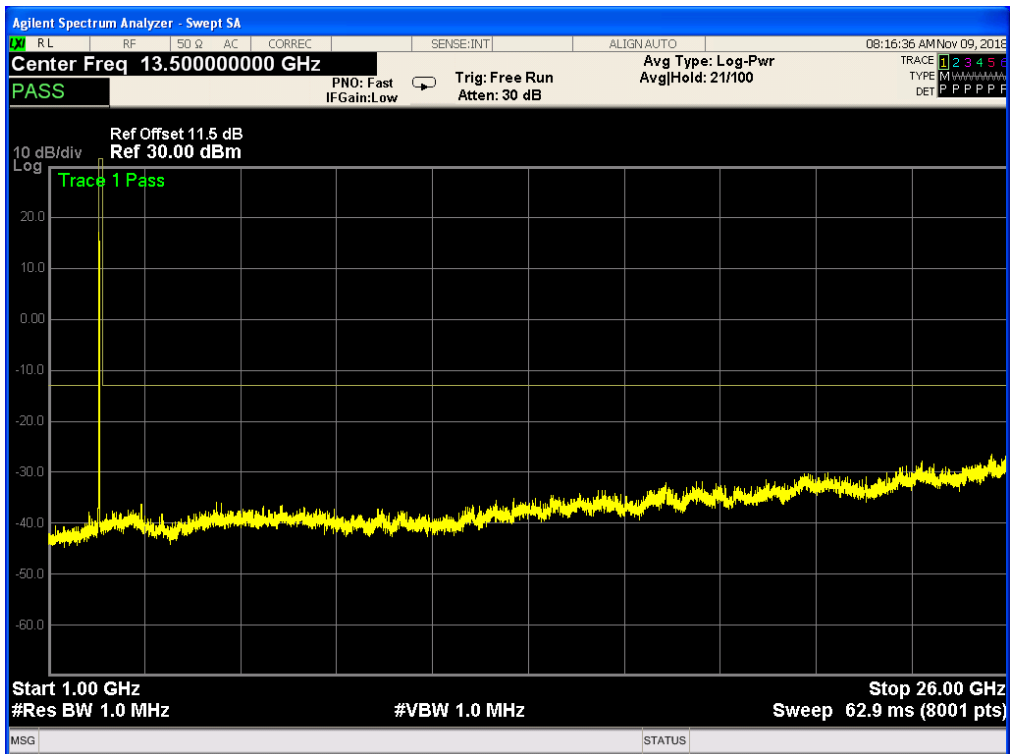
Band 40, UL Channel 38750, UL Frequency 2310.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



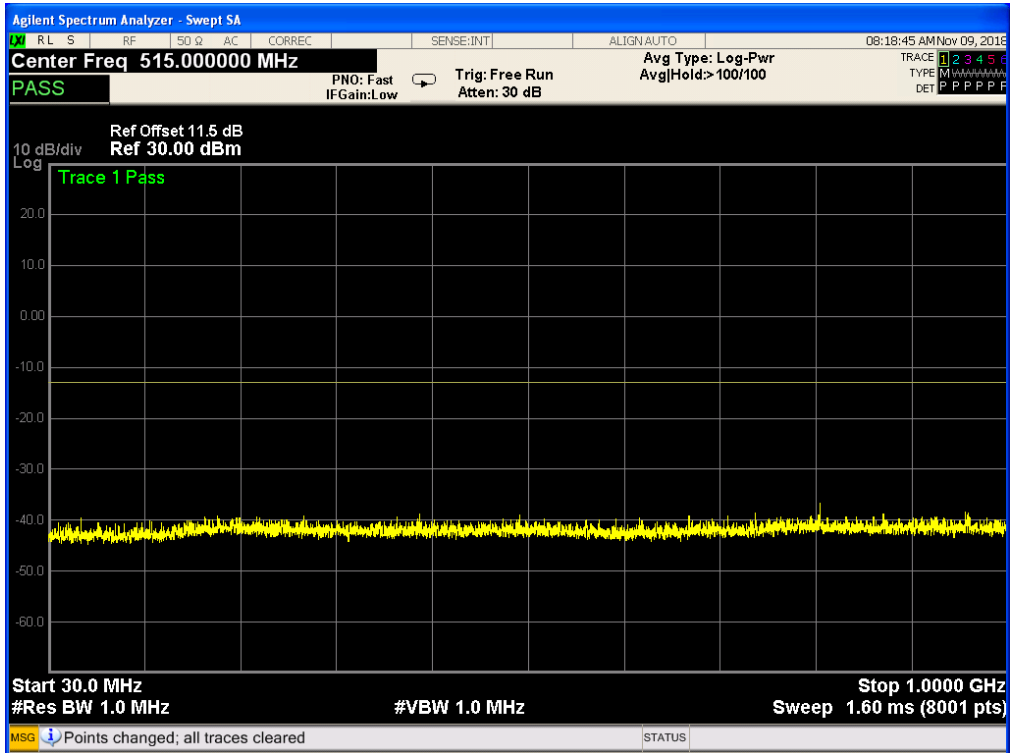
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



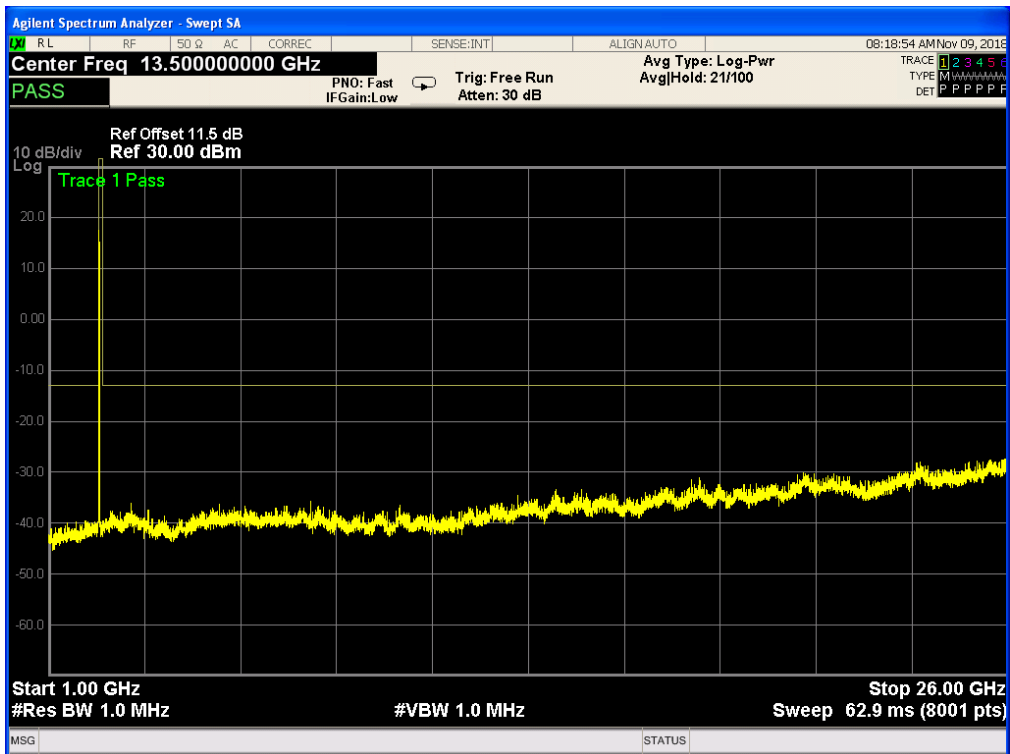
Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



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

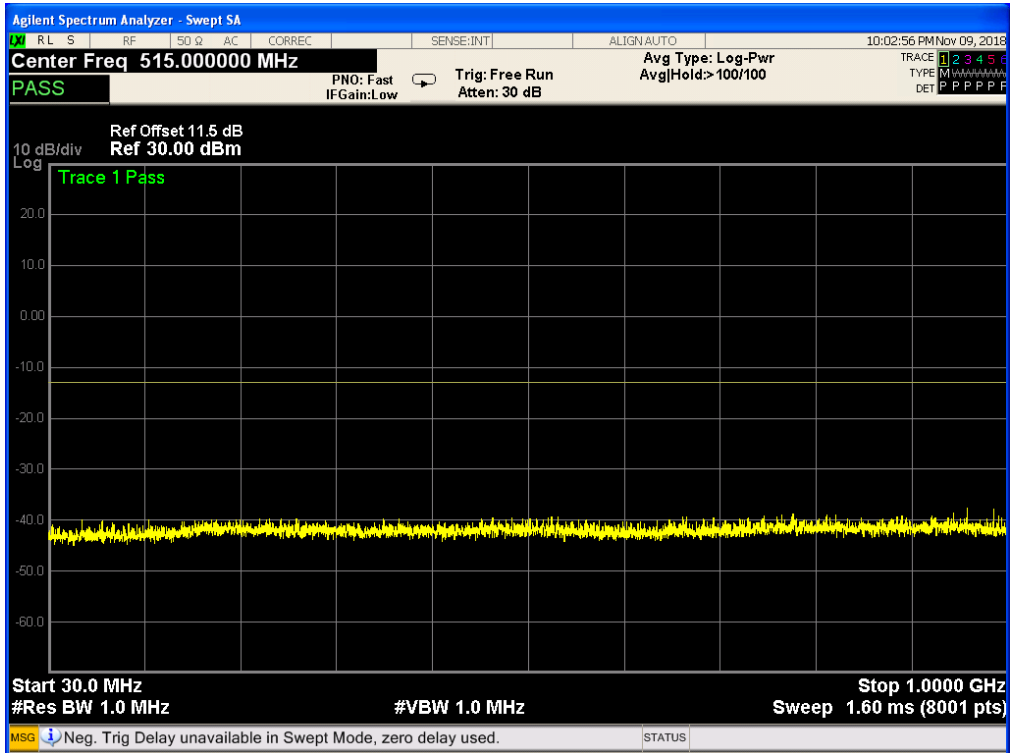


Band 40, UL Channel 38800, UL Frequency 2315.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

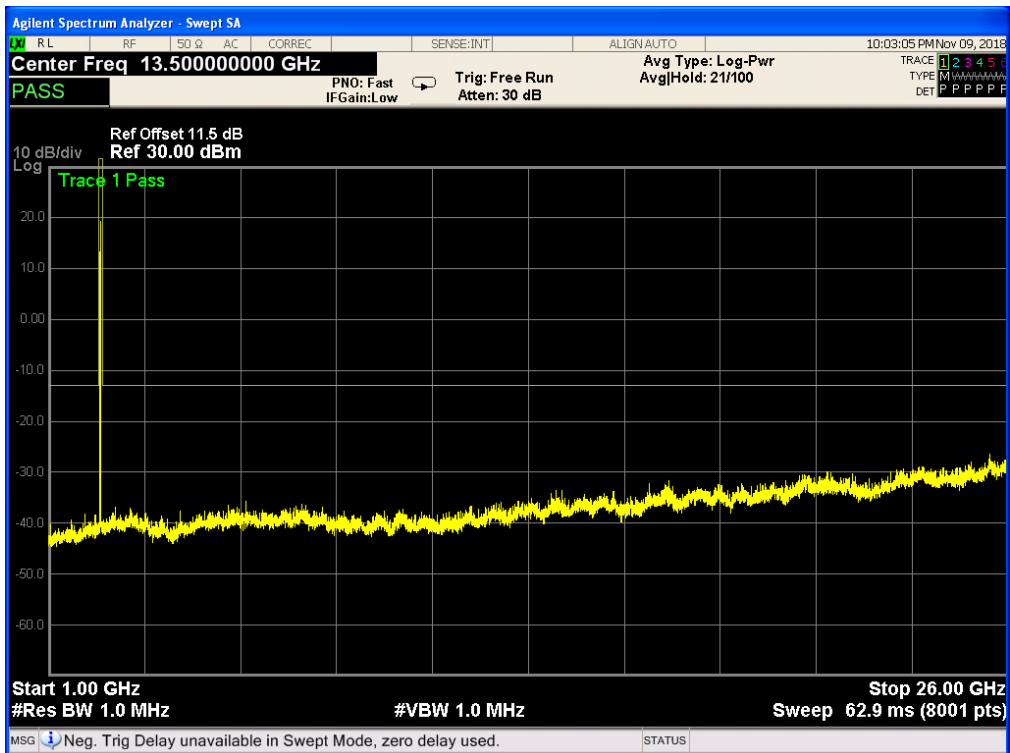


7.3 LTE BAND 40(2345-2360MHz)

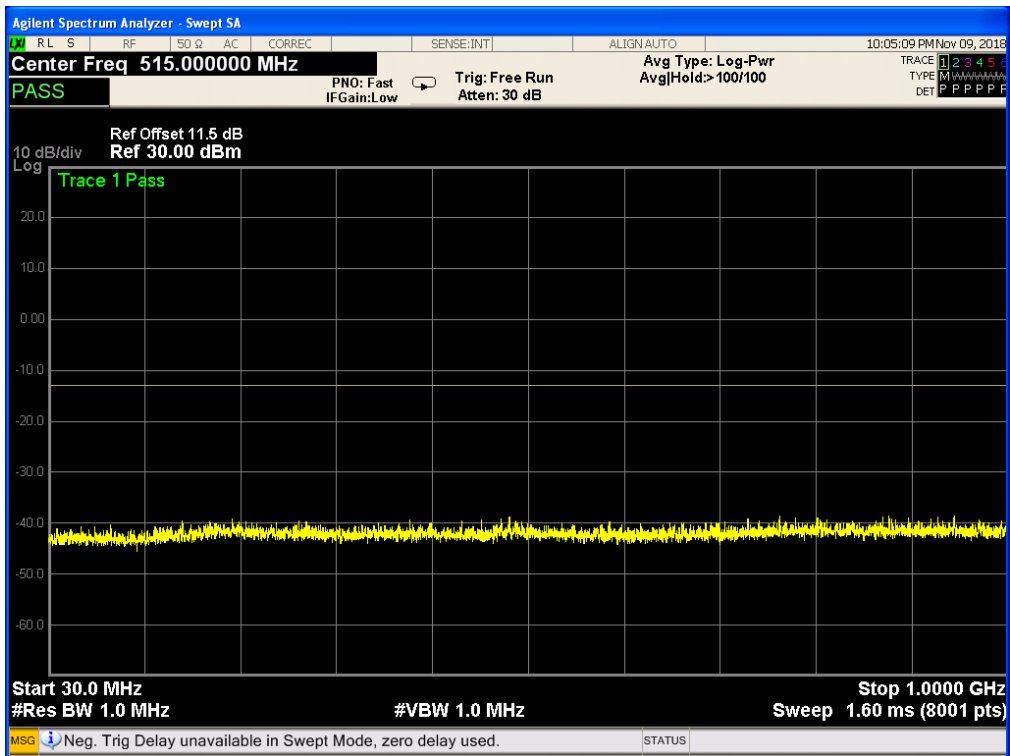
Band 40,UL Channel 39125,UL Frequency 2347.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



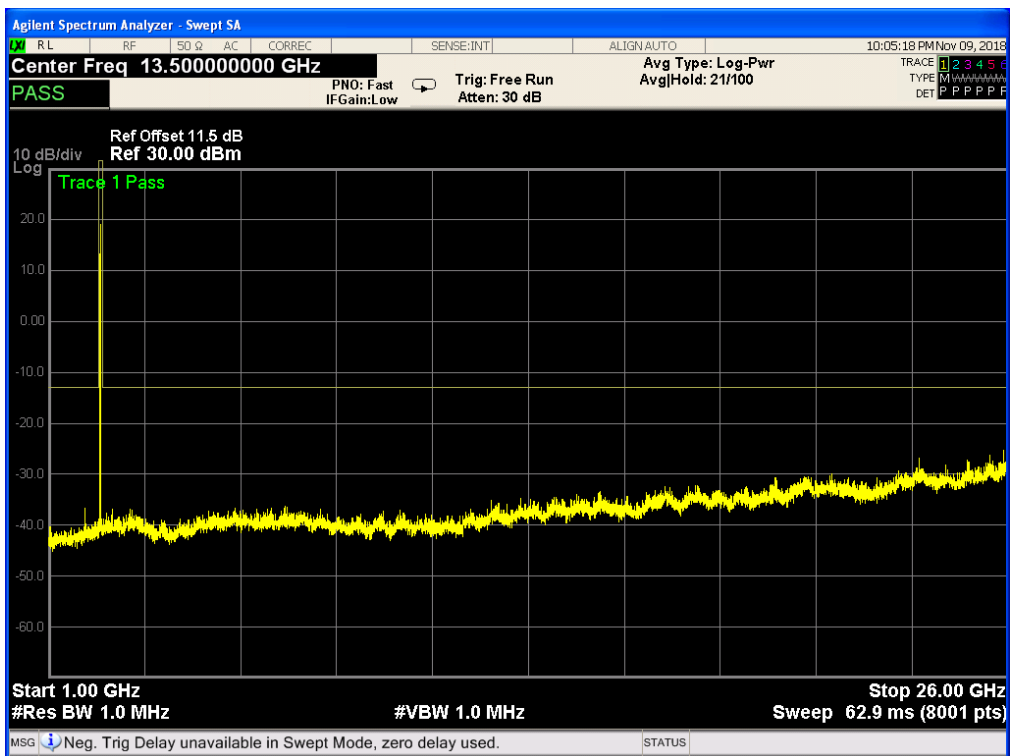
Band 40,UL Channel 39125,UL Frequency 2347.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



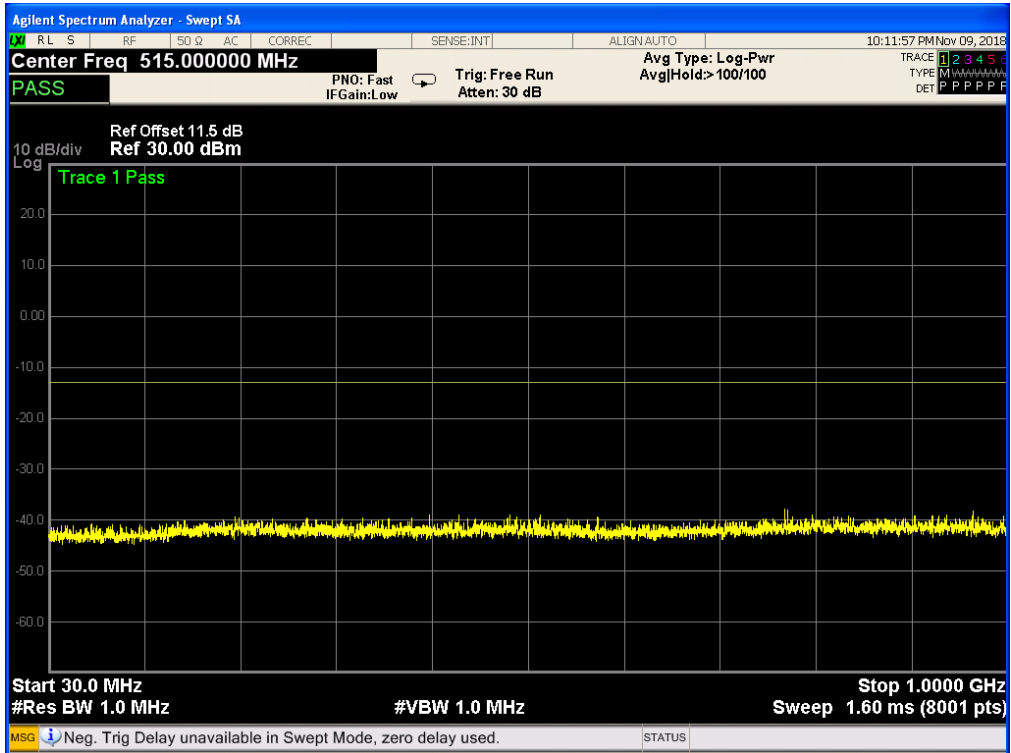
Band 40,UL Channel 39125,UL Frequency 2347.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



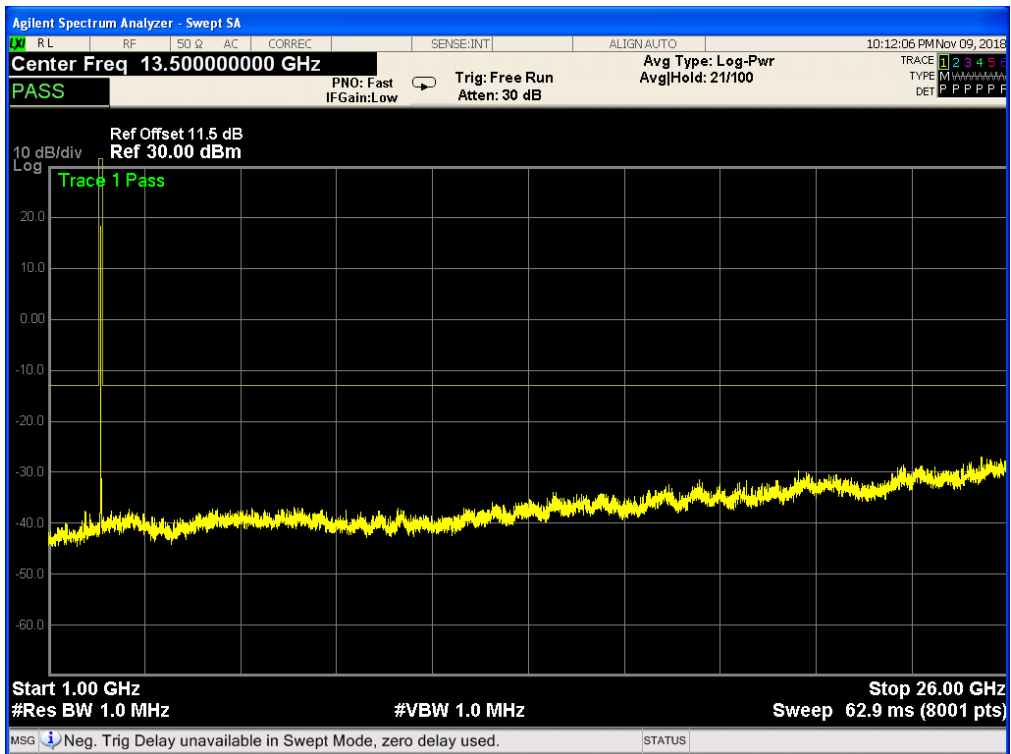
Band 40,UL Channel 39125,UL Frequency 2347.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



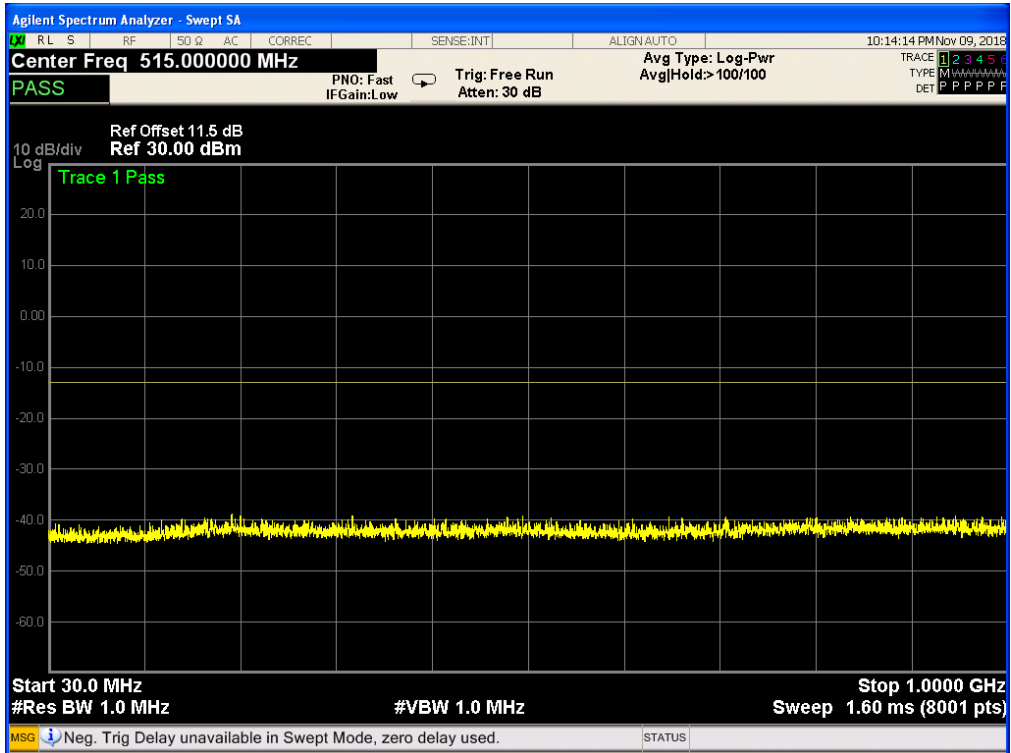
Band 40, UL Channel 39225, UL Frequency 2357.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



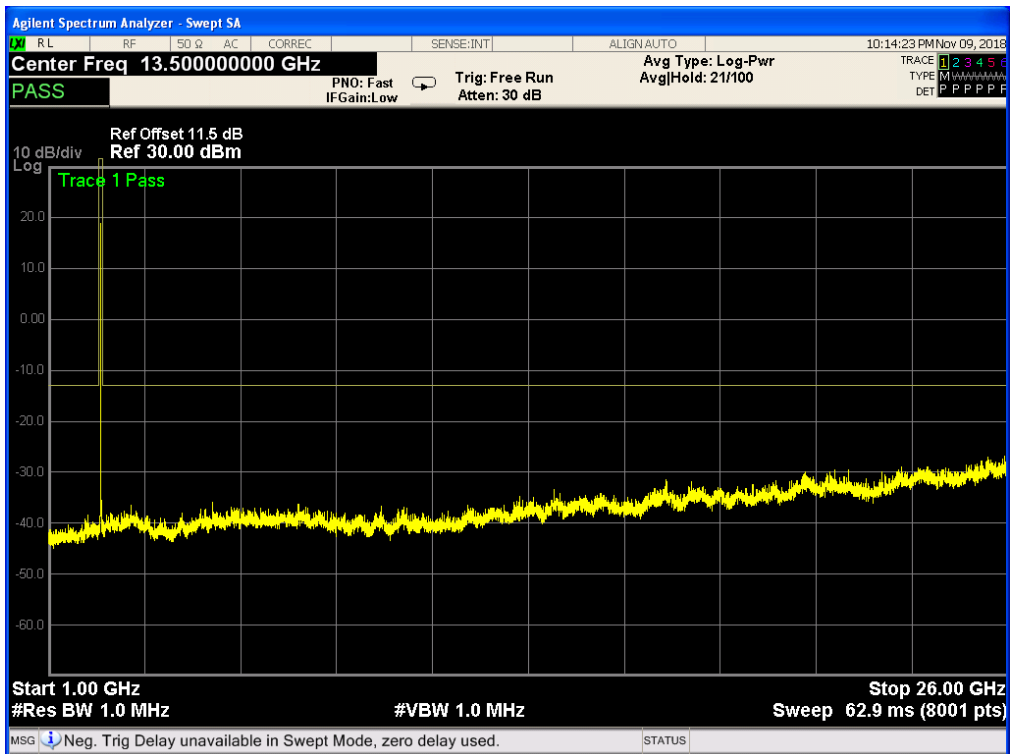
Band 40, UL Channel 39225, UL Frequency 2357.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



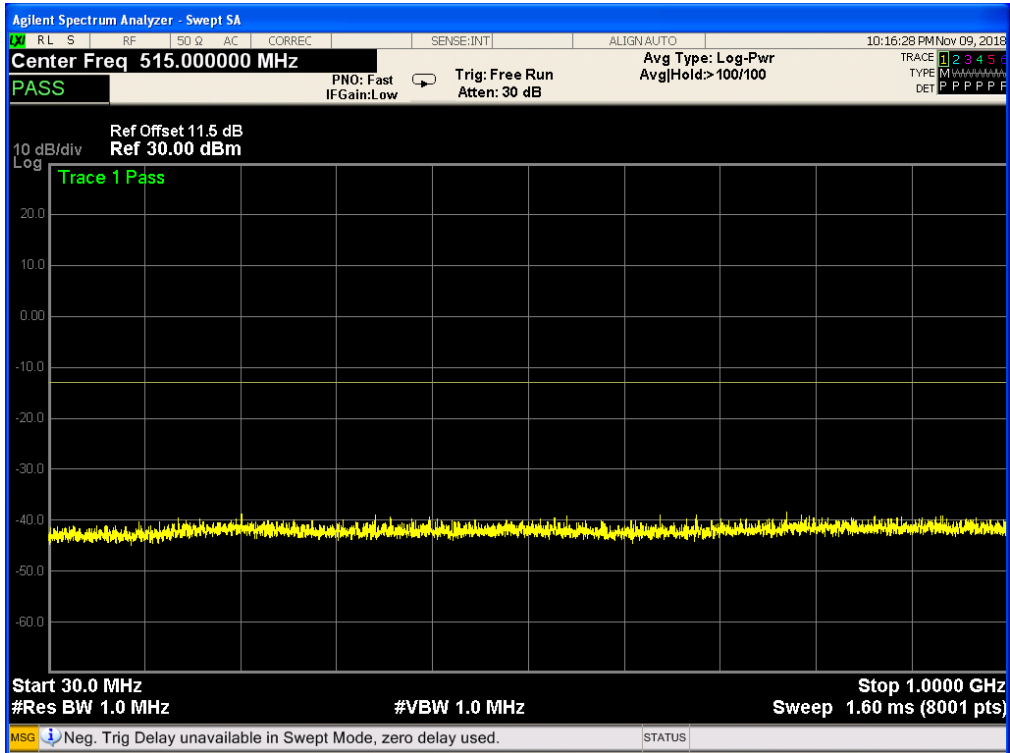
Band 40, UL Channel 39225, UL Frequency 2357.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



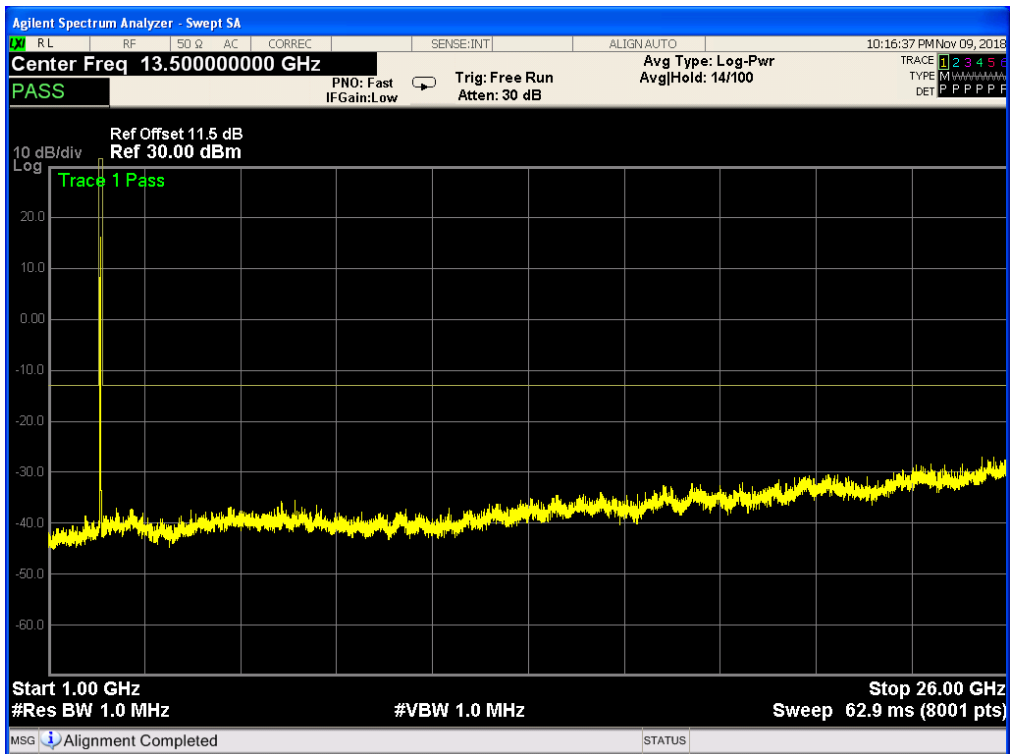
Band 40, UL Channel 39225, UL Frequency 2357.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



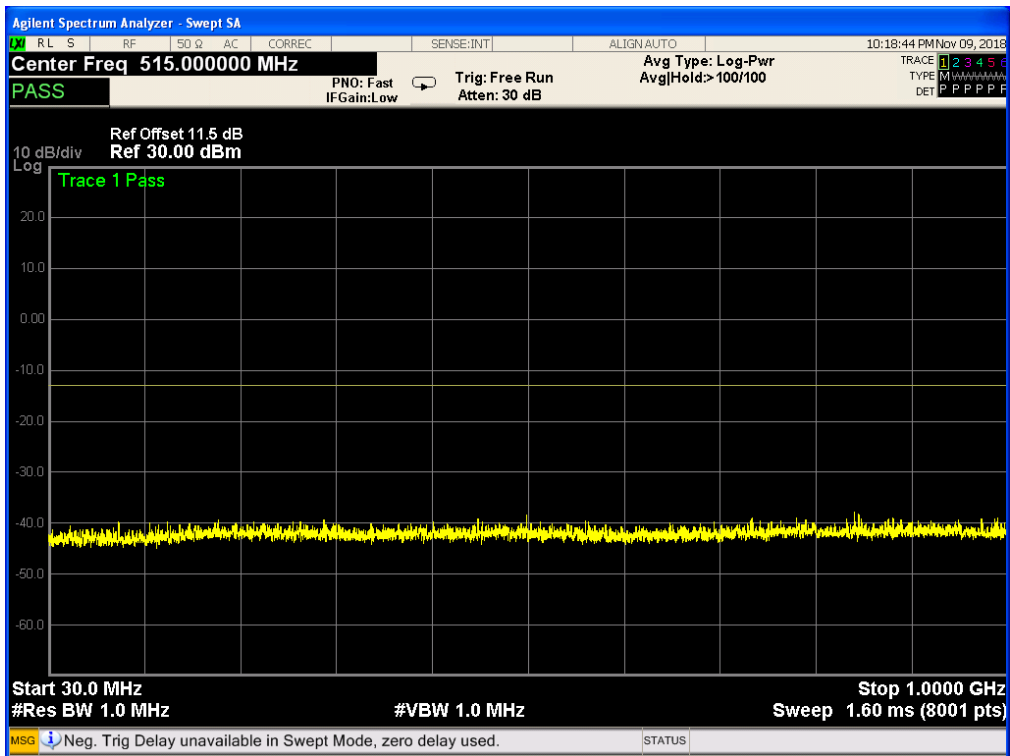
Band 40, UL Channel 39150, UL Frequency 2350.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



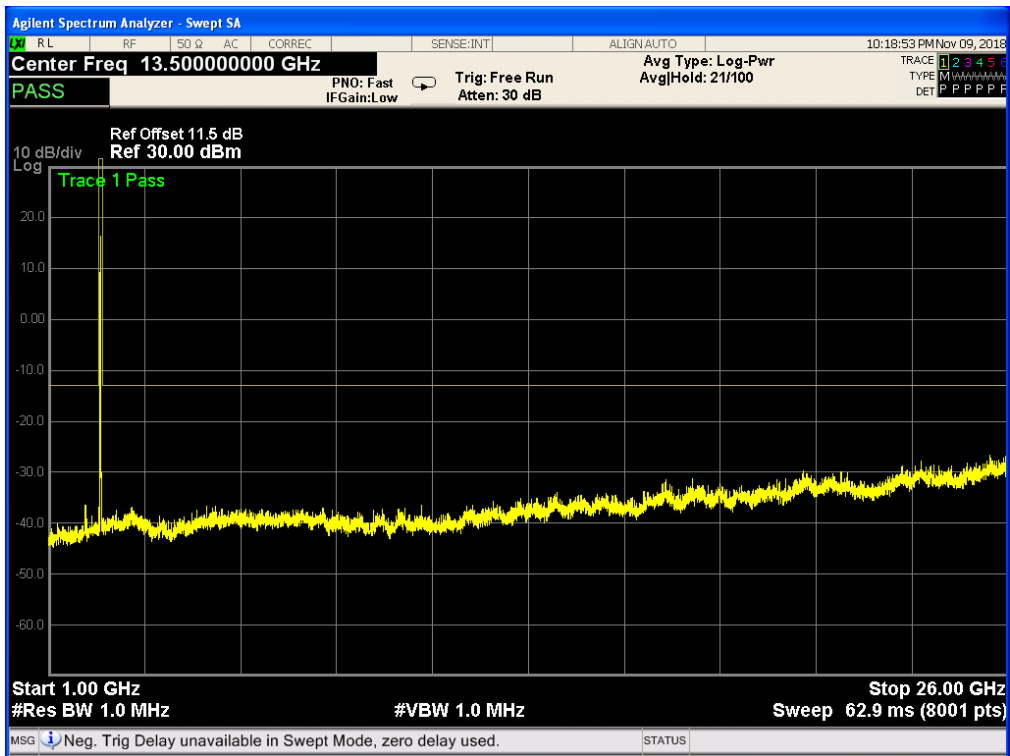
Band 40, UL Channel 39150, UL Frequency 2350.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



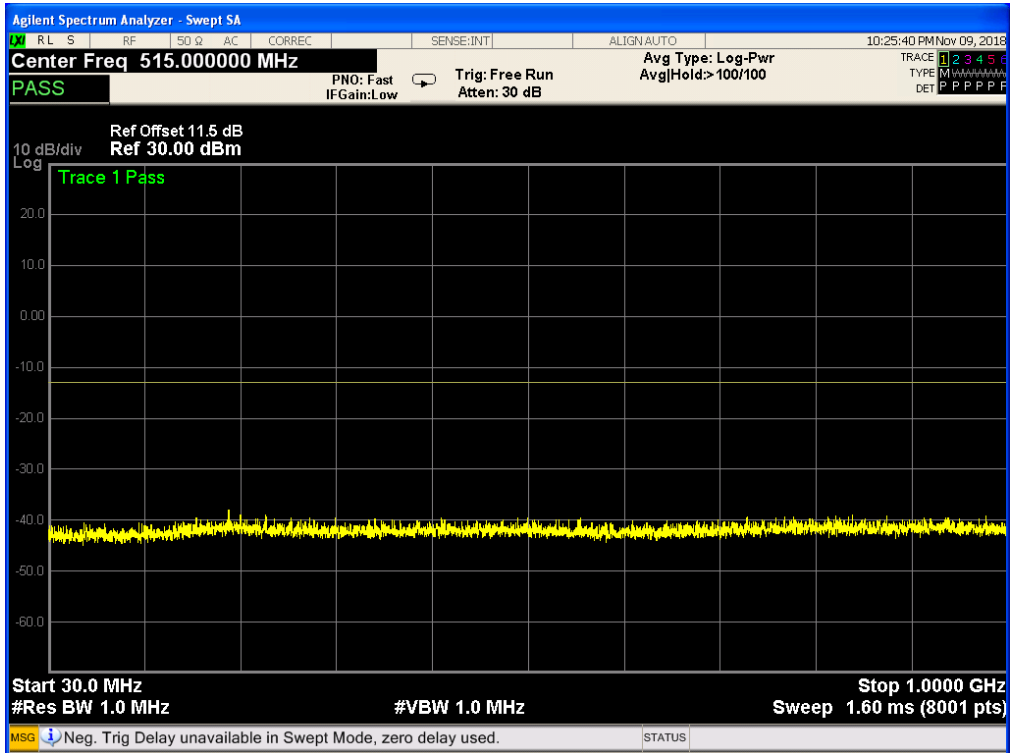
Band 40, UL Channel 39150, UL Frequency 2350.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



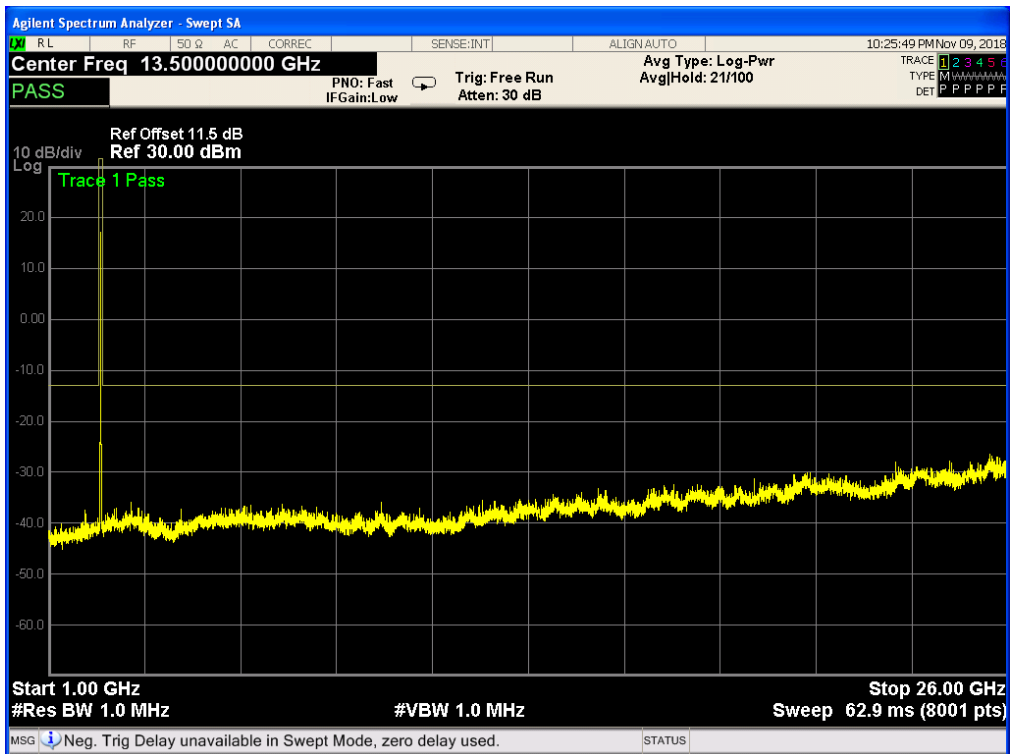
Band 40, UL Channel 39150, UL Frequency 2350.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



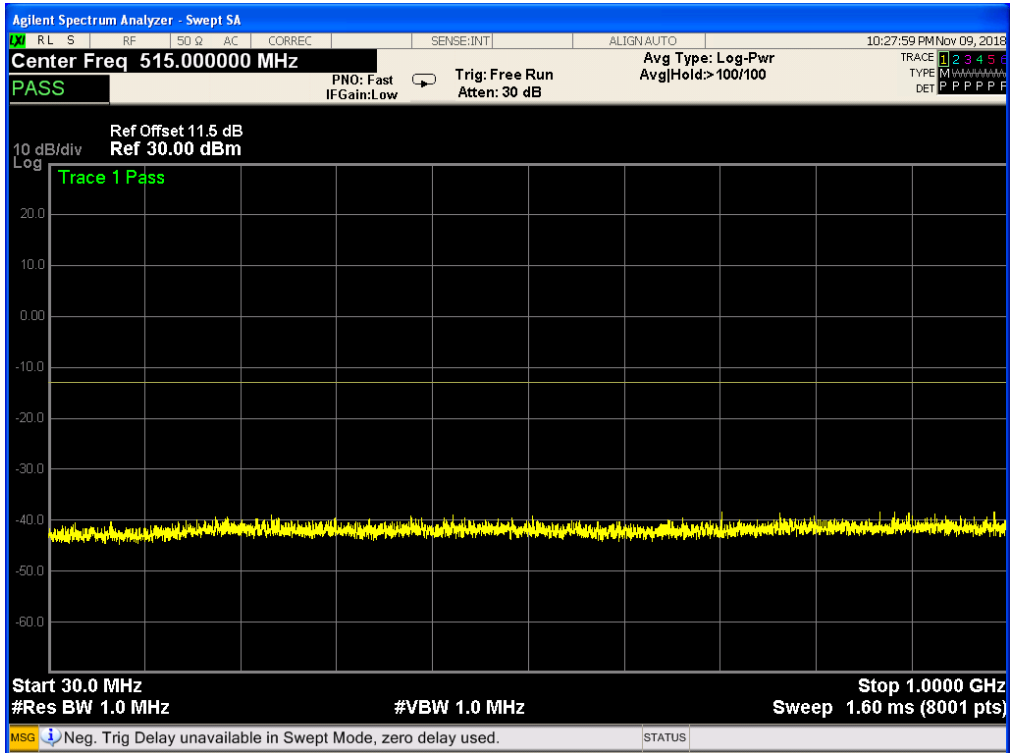
Band 40,UL Channel 39200,UL Frequency 2355.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



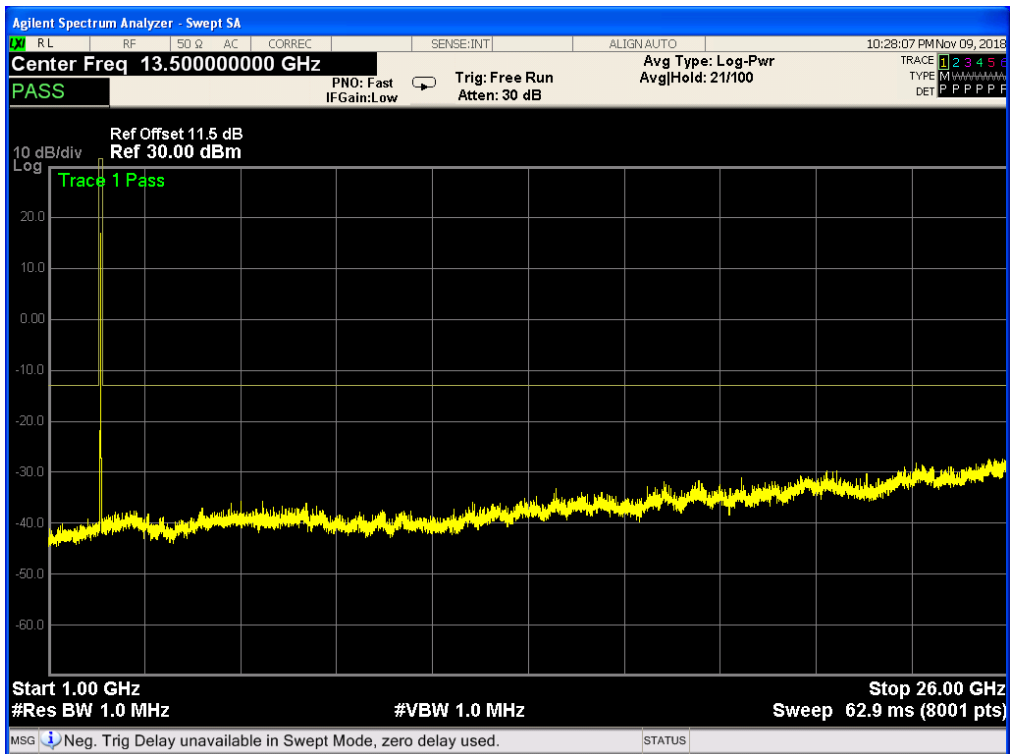
Band 40,UL Channel 39200,UL Frequency 2355.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



Band 40, UL Channel 39200, UL Frequency 2355.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



Band 40, UL Channel 39200, UL Frequency 2355.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



8. Radiated Spurious Emission

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 5

LTE Band 40

RESULTS

8.2 LTE BAND 5_

Radiated Power (EIRP) for Band 5										
Mode	RB/ RB SIZE	Frequ ncy	Result							Conclu sion
			SG Level (dBm)	Cable Loss (dBm)	Anten na Gain (dB)	Corre ction (dB)	Max. EIRP Averag e (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
1.4MHz Band QPSK	6/0	824.7	2.93	2.01	19.68	2.15	18.45	69.984	Vertical	Pass
		836.5	2.53	2.01	19.77	2.15	18.14	65.163	Vertical	Pass
		848.3	2.68	2.02	19.82	2.15	18.33	68.077	Vertical	Pass
1.4MHz Band 16 QAM	6/0	824.7	1.85	2.01	19.68	2.15	17.37	54.576	Vertical	Pass
		836.5	1.83	2.01	19.77	2.15	17.44	55.463	Vertical	Pass
		848.3	1.74	2.02	19.82	2.15	17.39	54.828	Vertical	Pass
3.0MHz Band QPSK	15/0	825.5	2.73	2.01	19.7	2.15	18.27	67.143	Vertical	Pass
		836.5	2.55	2.01	19.77	2.15	18.16	65.464	Vertical	Pass
		847.5	2.73	2.02	19.81	2.15	18.37	68.707	Vertical	Pass
3.0MHz Band 16 QAM	15/0	825.5	1.58	2.01	19.7	2.15	17.12	51.523	Vertical	Pass
		836.5	1.45	2.01	19.77	2.15	17.06	50.816	Vertical	Pass
		847.5	1.90	2.02	19.81	2.15	17.54	56.754	Vertical	Pass
5.0MHz Band QPSK	25/0	826.5	2.72	2.01	19.71	2.15	18.27	67.143	Vertical	Pass
		836.5	2.96	2.01	19.77	2.15	18.57	71.945	Vertical	Pass
		846.5	2.74	2.02	19.79	2.15	18.36	68.549	Vertical	Pass
5.0MHz Band 16 QAM	25/0	826.5	1.57	2.01	19.71	2.15	17.12	51.523	Vertical	Pass
		836.5	1.52	2.01	19.77	2.15	17.13	51.642	Vertical	Pass
		846.5	1.44	2.02	19.79	2.15	17.06	50.816	Vertical	Pass
10.0MH z Band QPSK	50/0	829	2.55	2.01	19.73	2.15	18.12	64.863	Vertical	Pass
		836.5	2.64	2.01	19.77	2.15	18.25	66.834	Vertical	Pass
		844	2.76	2.02	19.78	2.15	18.37	68.707	Vertical	Pass
10.0MH z Band 16 QAM	50/0	829	1.84	2.01	19.73	2.15	17.41	55.081	Vertical	Pass
		836.5	1.73	2.01	19.77	2.15	17.34	54.200	Vertical	Pass
		844	1.62	2.02	19.78	2.15	17.23	52.845	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 5										
Mode	RB/ RB SIZE	Freque ncy	Result							Conclu sion
			SG Level (dBm)	Cable Loss (dBm)	Anten na Gain (dB)	Corre ction (dB)	Max. EIRP Averag e (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
1.4MHz Band QPSK	6/0	824.7	3.25	2.01	19.68	2.15	18.77	75.336	Horizontal	Pass
		836.5	2.81	2.01	19.77	2.15	18.42	69.502	Horizontal	Pass
		848.3	3.00	2.02	19.82	2.15	18.65	73.282	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	824.7	2.20	2.01	19.68	2.15	17.72	59.156	Horizontal	Pass
		836.5	1.93	2.01	19.77	2.15	17.54	56.754	Horizontal	Pass
		848.3	1.99	2.02	19.82	2.15	17.64	58.076	Horizontal	Pass
3.0MHz Band QPSK	15/0	825.5	2.98	2.01	19.7	2.15	18.52	71.121	Horizontal	Pass
		836.5	3.01	2.01	19.77	2.15	18.62	72.778	Horizontal	Pass
		847.5	2.83	2.02	19.81	2.15	18.47	70.307	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	825.5	1.88	2.01	19.7	2.15	17.42	55.208	Horizontal	Pass
		836.5	1.97	2.01	19.77	2.15	17.58	57.280	Horizontal	Pass
		847.5	2.08	2.02	19.81	2.15	17.72	59.156	Horizontal	Pass
5.0MHz Band QPSK	25/0	826.5	3.00	2.01	19.71	2.15	18.55	71.614	Horizontal	Pass
		836.5	2.12	2.01	19.77	2.15	17.73	59.293	Horizontal	Pass
		846.5	2.74	2.02	19.79	2.15	18.36	68.549	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	826.5	1.97	2.01	19.71	2.15	17.52	56.494	Horizontal	Pass
		836.5	1.81	2.01	19.77	2.15	17.42	55.208	Horizontal	Pass
		846.5	1.86	2.02	19.79	2.15	17.48	55.976	Horizontal	Pass
10.0MH z Band QPSK	50/0	829	3.00	2.01	19.73	2.15	18.57	71.945	Horizontal	Pass
		836.5	3.05	2.01	19.77	2.15	18.66	73.451	Horizontal	Pass
		844	2.98	2.02	19.78	2.15	18.59	72.277	Horizontal	Pass
10.0MH z Band 16 QAM	50/0	829	2.15	2.01	19.73	2.15	17.72	59.156	Horizontal	Pass
		836.5	1.83	2.01	19.77	2.15	17.44	55.463	Horizontal	Pass
		844	1.94	2.02	19.78	2.15	17.55	56.885	Horizontal	Pass

Note:

SG Level= Signal generator output

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

8.3 LTE BAND 40

Radiated Power (EIRP) for Band 40 (2305-2320MHz)									
Mode	RB/ RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cabl e Loss (dBm)	Antenn a Gain (dB)	Max. EIRP Averag e (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
5.0MHz Band QPSK	25/0	2307.5	-3.59	3.12	27.58	20.87	122.180	Horizontal	Pass
		2312.5	-3.30	3.27	27.61	21.04	127.057	Horizontal	Pass
		2317.5	-3.40	3.29	27.63	20.94	124.165	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	2307.5	-4.32	3.12	27.58	20.14	103.276	Horizontal	Pass
		2312.5	-4.51	3.27	27.61	19.83	96.161	Horizontal	Pass
		2317.5	-4.42	3.29	27.63	19.92	98.175	Horizontal	Pass
10.0MH z Band QPSK	50/0	2310	-3.47	3.13	27.61	21.01	126.183	Horizontal	Pass
		2312.5	-3.51	3.27	27.61	20.83	121.060	Horizontal	Pass
		2315	-3.41	3.3	27.62	20.91	123.310	Horizontal	Pass
10.0MH z Band 16 QAM	50/0	2310	-4.71	3.13	27.61	19.77	94.842	Horizontal	Pass
		2312.5	-4.37	3.27	27.61	19.97	99.312	Horizontal	Pass
		2315	-4.19	3.3	27.62	20.13	103.039	Horizontal	Pass
15.0MH z Band QPSK	75/0	2312.5	-3.37	3.27	27.61	20.97	125.026	Horizontal	Pass
15.0MH z Band 16 QAM	75/0	2312.5	-4.32	3.27	27.61	20.02	100.462	Horizontal	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 40 (2305-2320MHz)									
Mode	RB/ RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cabl e Loss (dBm)	Antenn a Gain (dB)	Max. EIRP Averag e (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
5.0MHz Band QPSK	25/0	2307.5	-2.86	4.54	27.75	20.35	108.393	Vertical	Pass
		2312.5	-2.49	4.69	27.72	20.54	113.240	Vertical	Pass
		2317.5	-2.73	4.71	27.71	20.27	106.414	Vertical	Pass
5.0MHz Band 16 QAM	25/0	2307.5	-3.96	4.54	27.75	19.25	84.140	Vertical	Pass
		2312.5	-3.84	4.69	27.72	19.19	82.985	Vertical	Pass
		2317.5	-3.74	4.71	27.71	19.26	84.333	Vertical	Pass
10.0MH z Band QPSK	50/0	2310	-2.75	4.55	27.76	20.46	111.173	Vertical	Pass
		2312.5	-2.66	4.69	27.72	20.37	108.893	Vertical	Pass
		2315	-2.47	4.72	27.7	20.51	112.460	Vertical	Pass
10.0MH z Band 16 QAM	50/0	2310	-3.95	4.55	27.76	19.26	84.333	Vertical	Pass
		2312.5	-3.68	4.69	27.72	19.35	86.099	Vertical	Pass
		2315	-3.84	4.72	27.7	19.14	82.035	Vertical	Pass
15.0MH z Band QPSK	75/0	2312.5	-2.56	4.69	27.72	20.47	111.429	Vertical	Pass
15.0MH z Band 16 QAM	75/0	2312.5	-3.48	4.69	27.72	19.55	90.157	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 40 (2345-2360MHz)									
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	
5.0MHz Band QPSK	25/0	2347.5	-3.48	3.12	27.58	20.98	125.314	Horizontal	Pass
		2352.5	-3.19	3.27	27.61	21.15	130.317	Horizontal	Pass
		2357.5	-3.29	3.29	27.63	21.05	127.350	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	2347.5	-4.21	3.12	27.58	20.25	105.925	Horizontal	Pass
		2352.5	-4.40	3.27	27.61	19.94	98.628	Horizontal	Pass
		2357.5	-4.31	3.29	27.63	20.03	100.693	Horizontal	Pass
10.0MHz Band QPSK	50/0	2350	-3.36	3.13	27.61	21.12	129.420	Horizontal	Pass
		2352.5	-3.40	3.27	27.61	20.94	124.165	Horizontal	Pass
		2355	-3.30	3.3	27.62	21.02	126.474	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	2350	-4.60	3.13	27.61	19.88	97.275	Horizontal	Pass
		2352.5	-4.26	3.27	27.61	20.08	101.859	Horizontal	Pass
		2355	-4.08	3.3	27.62	20.24	105.682	Horizontal	Pass
15.0MHz Band QPSK	75/0	2352.5	-3.26	3.27	27.61	21.08	128.233	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	2352.5	-4.21	3.27	27.61	20.13	103.039	Horizontal	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 40(2345-2360MHz)									
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	
5.0MHz Band QPSK	25/0	2347.5	-2.75	4.54	27.75	20.46	111.173	Vertical	Pass
		2352.5	-2.38	4.69	27.72	20.65	116.145	Vertical	Pass
		2357.5	-2.62	4.71	27.71	20.38	109.144	Vertical	Pass
5.0MHz Band 16 QAM	25/0	2347.5	-3.85	4.54	27.75	19.36	86.298	Vertical	Pass
		2352.5	-3.73	4.69	27.72	19.3	85.114	Vertical	Pass
		2357.5	-3.63	4.71	27.71	19.37	86.497	Vertical	Pass
10.0MHz Band QPSK	50/0	2350	-2.64	4.55	27.76	20.57	114.025	Vertical	Pass
		2352.5	-2.55	4.69	27.72	20.48	111.686	Vertical	Pass
		2355	-2.36	4.72	27.7	20.62	115.345	Vertical	Pass
10.0MHz Band 16 QAM	50/0	2350	-3.84	4.55	27.76	19.37	86.497	Vertical	Pass
		2352.5	-3.57	4.69	27.72	19.46	88.308	Vertical	Pass
		2355	-3.73	4.72	27.7	19.25	84.140	Vertical	Pass
15.0MHz Band QPSK	75/0	2352.5	-2.45	4.69	27.72	20.58	114.288	Vertical	Pass
15.0MHz Band 16 QAM	75/0	2352.5	-3.37	4.69	27.72	19.66	92.470	Vertical	Pass

Note:

SG Level= Signal generator output

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

9. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27.53

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

§27.53 (g) For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

§27.53 (h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

- a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \text{ Log}_{10}(p)$, dB; and
- b. for mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \text{ Log}_{10}(p)$, dB at the channel edges and $55 + 10 \text{ Log}_{10}(p)$ at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts.

MODES TESTED

- LTE Band 5
- LTE Band 40

RESULTS

PASS

9.1 LTE BAND 5

QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 824.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-51.73	2.78	27.50	-27.01	-13	-14.01	Horizontal
1649.4	-57.13	2.78	27.50	-32.41	-13	-19.41	Vertical
2474.1	-55.78	2.90	27.80	-30.88	-13	-17.88	Vertical
2474.1	-54.63	2.90	27.80	-29.73	-13	-16.73	Horizontal
Test Results For Mid Channel 836.5MHz							
1673	-52.12	2.78	27.48	-27.42	-13	-14.42	Horizontal
1673	-50.64	2.78	27.48	-25.94	-13	-12.94	Vertical
2509.5	-52.97	2.91	27.70	-28.18	-13	-15.18	Vertical
2509.5	-52.83	2.91	27.70	-28.04	-13	-15.04	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-53.39	2.78	27.43	-28.74	-13	-15.74	Horizontal
1696.6	-55.14	2.78	27.43	-30.49	-13	-17.49	Vertical
2544.9	-51.62	2.92	27.74	-26.80	-13	-13.80	Vertical
2544.9	-52.82	2.92	27.74	-28.00	-13	-15.00	Horizontal

QPSK EIRP POWER FOR LTE BAND 5 (10MHZ BANDWIDTH)

Test Results for Low Channel 829MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1658	-54.12	2.78	27.50	-29.40	-13	-16.40	Horizontal
1658	-51.64	2.78	27.50	-26.92	-13	-13.92	Vertical
2487	-55.78	2.90	27.80	-30.88	-13	-17.88	Vertical
2487	-53.47	2.90	27.80	-28.57	-13	-15.57	Horizontal
Test Results for Mid Channel 836.5MHz							
1673	-52.14	2.78	27.48	-27.44	-13	-14.44	Horizontal
1673	-52.84	2.78	27.48	-28.14	-13	-15.14	Vertical
2509.5	-56.06	2.91	27.70	-31.27	-13	-18.27	Vertical
2509.5	-53.48	2.91	27.70	-28.69	-13	-15.69	Horizontal
Test Results for High Channel 844MHz							
1688	-56.08	2.78	27.43	-31.43	-13	-18.43	Horizontal
1688	-50.62	2.78	27.43	-25.97	-13	-12.97	Vertical
2532	-51.59	2.92	27.74	-26.77	-13	-13.77	Vertical
2532	-52.82	2.92	27.74	-28.00	-13	-15.00	Horizontal

Note: $P_{Mea}(dBm) = Power(dBm) + ARpl(dBm)$
 . Over Limit = $P_{Mea}(dBm) - Limit(dBm)$
 . We test both H direction and V direction, recorded worst case direction.

9.2 LTE BAND 40

QPSK EIRP POWER FOR LTE BAND 40 (2305-2320MHz) (5.0MHz BANDWIDTH)

Test Results for Low Channel 2307.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
4615	-53.15	4.04	33.51	-23.68	-13	-10.68	Horizontal
4615	-54.98	4.04	33.51	-25.51	-13	-12.51	Vertical
6922.5	-57.46	5.24	35.84	-26.86	-13	-13.86	Vertical
6922.5	-67.98	5.24	35.84	-37.38	-13	-24.38	Horizontal
Test Results for Mid Channel 2312.5MHz							
4625	-54.12	4.04	33.56	-24.60	-13	-11.60	Horizontal
4625	-54.62	4.04	33.56	-25.10	-13	-12.10	Vertical
6937.5	-55.48	5.24	35.91	-24.81	-13	-11.81	Vertical
6937.5	-57.19	5.24	35.91	-26.52	-13	-13.52	Horizontal
Test Results for High Channel 2317.5MHz							
4635	-53.79	4.04	34.00	-23.83	-13	-10.83	Horizontal
4635	-56.08	4.04	34.00	-26.12	-13	-13.12	Vertical
6952.5	-58.14	5.24	36.04	-27.34	-13	-14.34	Vertical
6952.5	-57.46	5.24	36.04	-26.66	-13	-13.66	Horizontal

QPSK EIRP POWER FOR LTE BAND 40 (10.0MHz BANDWIDTH)

Test Results for Low Channel 2310MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
4620	-57.91	4.07	33.54	-28.44	-13	-15.44	Horizontal
4620	-52.78	4.07	33.54	-23.31	-13	-10.31	Vertical
6930	-59.48	5.28	35.86	-28.90	-13	-15.90	Vertical
6930	-60.82	5.28	35.86	-30.24	-13	-17.24	Horizontal
Test Results for Mid Channel 2312.5MHz							
4625	-57.46	4.04	33.56	-27.94	-13	-14.94	Horizontal
4625	-54.12	4.04	33.56	-24.60	-13	-11.60	Vertical
6937.5	-58.24	5.24	35.91	-27.57	-13	-14.57	Vertical
6937.5	-59.48	5.24	35.91	-28.81	-13	-15.81	Horizontal
Test Results for High Channel 2315MHz							
4630	-56.02	4.04	34.00	-26.06	-13	-13.06	Horizontal
4630	-57.46	4.04	34.00	-27.50	-13	-14.50	Vertical
6945	-58.91	5.24	36.04	-28.11	-13	-15.11	Vertical
6945	-57.12	5.24	36.04	-26.32	-13	-13.32	Horizontal

QPSK EIRP POWER FOR LTE BAND 40 (2345-2360MHz) (5.0MHZ BANDWIDTH)

Test Results for Low Channel 2347.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
4695	-54.65	4.04	33.51	-25.18	-13	-12.18	Horizontal
4695	-56.48	4.04	33.51	-27.01	-13	-14.01	Vertical
7042.5	-58.96	5.24	35.84	-28.36	-13	-15.36	Vertical
7042.5	-69.48	5.24	35.84	-38.88	-13	-25.88	Horizontal
Test Results for Mid Channel 2352.5MHz							
4705	-55.62	4.04	33.56	-26.10	-13	-13.10	Horizontal
4705	-56.12	4.04	33.56	-26.60	-13	-13.60	Vertical
7057.5	-56.98	5.24	35.91	-26.31	-13	-13.31	Vertical
7057.5	-58.69	5.24	35.91	-28.02	-13	-15.02	Horizontal
Test Results for High Channel 2357.5MHz							
4715	-55.29	4.04	34.00	-25.33	-13	-12.33	Horizontal
4715	-57.58	4.04	34.00	-27.62	-13	-14.62	Vertical
7072.5	-59.64	5.24	36.04	-28.84	-13	-15.84	Vertical
7072.5	-58.96	5.24	36.04	-28.16	-13	-15.16	Horizontal

QPSK EIRP POWER FOR LTE BAND 40 (10.0MHZ BANDWIDTH)

Test Results for Low Channel 2350MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
4700	-59.41	4.07	33.54	-29.94	-13	-16.94	Horizontal
4700	-54.28	4.07	33.54	-24.81	-13	-11.81	Vertical
7050	-60.98	5.28	35.86	-30.40	-13	-17.40	Vertical
7050	-62.32	5.28	35.86	-31.74	-13	-18.74	Horizontal
Test Results for Mid Channel 2352.5MHz							
4705	-58.96	4.04	33.56	-29.44	-13	-16.44	Horizontal
4705	-55.62	4.04	33.56	-26.10	-13	-13.10	Vertical
7057.5	-59.74	5.24	35.91	-29.07	-13	-16.07	Vertical
7057.5	-60.98	5.24	35.91	-30.31	-13	-17.31	Horizontal
Test Results for High Channel 2355MHz							
4710	-57.52	4.04	34.00	-27.56	-13	-14.56	Horizontal
4710	-58.96	4.04	34.00	-29.00	-13	-16.00	Vertical
7065	-60.41	5.24	36.04	-29.61	-13	-16.61	Vertical
7065	-58.62	5.24	36.04	-27.82	-13	-14.82	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

Over Limit= : P_{Mea}(dBm)-Limit(dBm)

We test both H direction and V direction, recorded worst case direction.

10. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

Temp. = -30° to $+50^{\circ}$ C

Voltage = low voltage, DC 3.6V, Normal, DC 3.8V and High voltage, DC 4.4V.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to -30° C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}$ C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

LTE Band 5

LTE Band 40

RESULTS

See the following pages.

10.1 LTE BAND 5

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	836.5	-3.1	-0.003706	2.5
3.8	836.5	-6.5	-0.007770	2.5
4.4	836.5	3.4	0.004065	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	836.5	-1.8	-0.002152	2.5
Extreme (50C)	836.5	-4.2	-0.005021	2.5
Extreme (40C)	836.5	-3.9	-0.004662	2.5
Extreme (30C)	836.5	-3.1	-0.003706	2.5
Extreme (10C)	836.5	2.4	0.002869	2.5
Extreme (0C)	836.5	3	0.003586	2.5
Extreme (-10C)	836.5	4.2	0.005021	2.5
Extreme (-20C)	836.5	-4.3	-0.005140	2.5
Extreme (-30C)	836.5	-6	-0.007173	2.5

16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	836.5	-2.8	-0.003347	2.5
3.8	836.5	-4.9	-0.005858	2.5
4.4	836.5	-6.3	-0.007531	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	836.5	-4.1	-0.004901	2.5
Extreme (50C)	836.5	-5.2	-0.006216	2.5
Extreme (40C)	836.5	-2.9	-0.003467	2.5
Extreme (30C)	836.5	7	0.008368	2.5
Extreme (10C)	836.5	3.7	0.004423	2.5
Extreme (0C)	836.5	3.8	0.004543	2.5
Extreme (-10C)	836.5	-4.3	-0.005140	2.5
Extreme (-20C)	836.5	-4.6	-0.005499	2.5
Extreme (-30C)	836.5	-3.7	-0.004423	2.5

*Note: Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.2 LTE BAND 40

(2305-2320MHz)QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 QPSK, (CH 38775 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	2312.5	3.2	0.001384	2.5
3.8	2312.5	-5.2	-0.002249	2.5
4.4	2312.5	2.8	0.001211	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 QPSK, (CH 38775 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	2312.5	-1.3	-0.000562	2.5
Extreme (50C)	2312.5	-3.2	-0.001384	2.5
Extreme (40C)	2312.5	-3.4	-0.001470	2.5
Extreme (30C)	2312.5	-1.1	-0.000476	2.5
Extreme (10C)	2312.5	2.2	0.000951	2.5
Extreme (0C)	2312.5	1.3	0.000562	2.5
Extreme (-10C)	2312.5	4.5	0.001946	2.5
Extreme (-20C)	2312.5	-2.3	-0.000995	2.5
Extreme (-30C)	2312.5	-3.5	-0.001514	2.5

(2305-2320MHz)16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 16QAM, (CH 38775 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	2312.5	6.8	0.002941	2.5
3.8	2312.5	5.6	0.002422	2.5
4.4	2312.5	4.3	0.001859	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 16QAM, (CH 38775 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	2312.5	2.8	0.001211	2.5
Extreme (50C)	2312.5	1.3	0.000562	2.5
Extreme (40C)	2312.5	-2.5	-0.001081	2.5
Extreme (30C)	2312.5	-1.8	-0.000778	2.5
Extreme (10C)	2312.5	3.5	0.001514	2.5
Extreme (0C)	2312.5	6.7	0.002897	2.5
Extreme (-10C)	2312.5	-1.7	-0.000735	2.5
Extreme (-20C)	2312.5	6.7	0.002897	2.5
Extreme (-30C)	2312.5	-5.1	-0.002205	2.5

(2345-2360MHz)QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 QPSK, (CH 39175 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	2352.5	10.2	0.004336	2.5
3.8	2352.5	-5.4	-0.002295	2.5
4.4	2352.5	2.8	0.001190	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 QPSK, (CH 39175 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	2352.5	4.8	0.002040	2.5
Extreme (50C)	2352.5	2.6	0.001105	2.5
Extreme (40C)	2352.5	6.4	0.002721	2.5
Extreme (30C)	2352.5	-1.8	-0.000765	2.5
Extreme (10C)	2352.5	-3.4	-0.001445	2.5
Extreme (0C)	2352.5	2.2	0.000935	2.5
Extreme (-10C)	2352.5	-2.6	-0.001105	2.5
Extreme (-20C)	2352.5	-4.1	-0.001743	2.5
Extreme (-30C)	2352.5	-1.6	-0.000680	2.5

(2345-2360MHz)16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 16QAM, (CH 39175 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.6	2352.5	4.2	0.001785	2.5
3.8	2352.5	3.1	0.001318	2.5
4.4	2352.5	1.7	0.000723	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 40 16QAM, (CH 39175 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	2352.5	3.2	0.001360	2.5
Extreme (50C)	2352.5	1.8	0.000765	2.5
Extreme (40C)	2352.5	2.7	0.001148	2.5
Extreme (30C)	2352.5	-7.2	-0.003061	2.5
Extreme (10C)	2352.5	-8.2	-0.003486	2.5
Extreme (0C)	2352.5	3.3	0.001403	2.5
Extreme (-10C)	2352.5	-4.2	-0.001785	2.5
Extreme (-20C)	2352.5	-4.1	-0.001743	2.5
Extreme (-30C)	2352.5	-3.8	-0.001615	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

11. Peak-to-Average Ratio

11.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

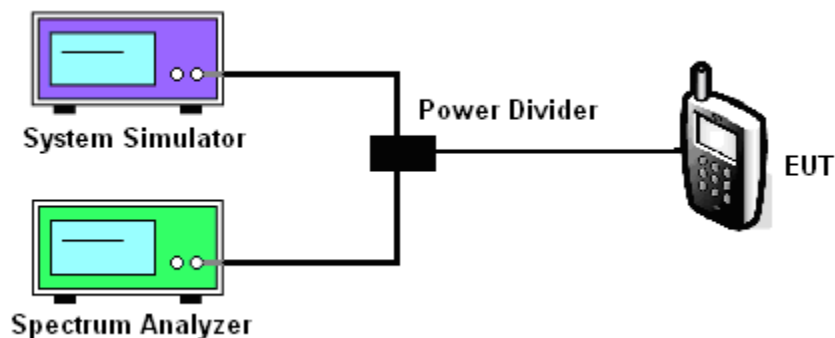
11.2 Measuring Instruments

See list of measuring instruments of this test report.

11.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. For GSM/EGPRS operating modes:
 - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
 - b. Set EUT in maximum power output, and triggered the burst signal.
 - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

11.4 Test Setup



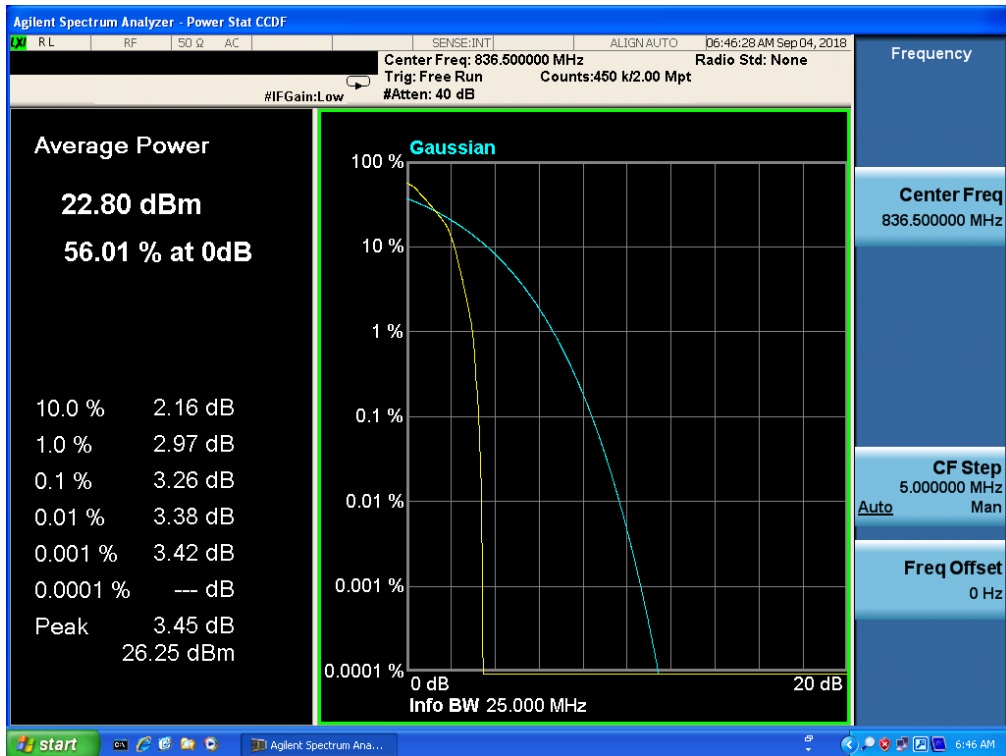
MODES TESTED

- LTE Band 5
- LTE Band 40

BAND	CHANNEL	Frequency [MHz]	BANDWIDTH	NO. RB	RB POS.	MODULATION	PAR [dB]
5	20525	836.5	1.4	1	Low	QPSK	3.26
5	20525	836.5	1.4	1	Low	16-QAM	4.22
5	20525	836.5	3.0	1	Low	QPSK	2.97
5	20525	836.5	3.0	1	Low	16-QAM	3.88
5	20525	836.5	5.0	1	Low	QPSK	2.85
5	20525	836.5	5.0	1	Low	16-QAM	3.74
5	20525	836.5	10.0	1	Low	QPSK	3.74
5	20525	836.5	10.0	1	Low	16-QAM	4.71
40	38775	2312.5	5.0	1	Low	QPSK	5.59
40	38775	2312.5	5.0	1	Low	16-QAM	6.90
40	38775	2312.5	10.0	1	Low	QPSK	5.29
40	38775	2312.5	10.0	1	Low	16-QAM	6.06
40	38775	2312.5	15.0	1	Low	QPSK	5.28
40	38775	2312.5	15.0	1	Low	16-QAM	6.23
40	39175	2352.5	5.0	1	Low	QPSK	5.13
40	39175	2352.5	5.0	1	Low	16-QAM	5.89
40	39175	2352.5	10.0	1	Low	QPSK	5.13
40	39175	2352.5	10.0	1	Low	16-QAM	5.98
40	39175	2352.5	15.0	1	Low	QPSK	5.50
40	39175	2352.5	15.0	1	Low	16-QAM	6.11

11.5 LTE BAND 5

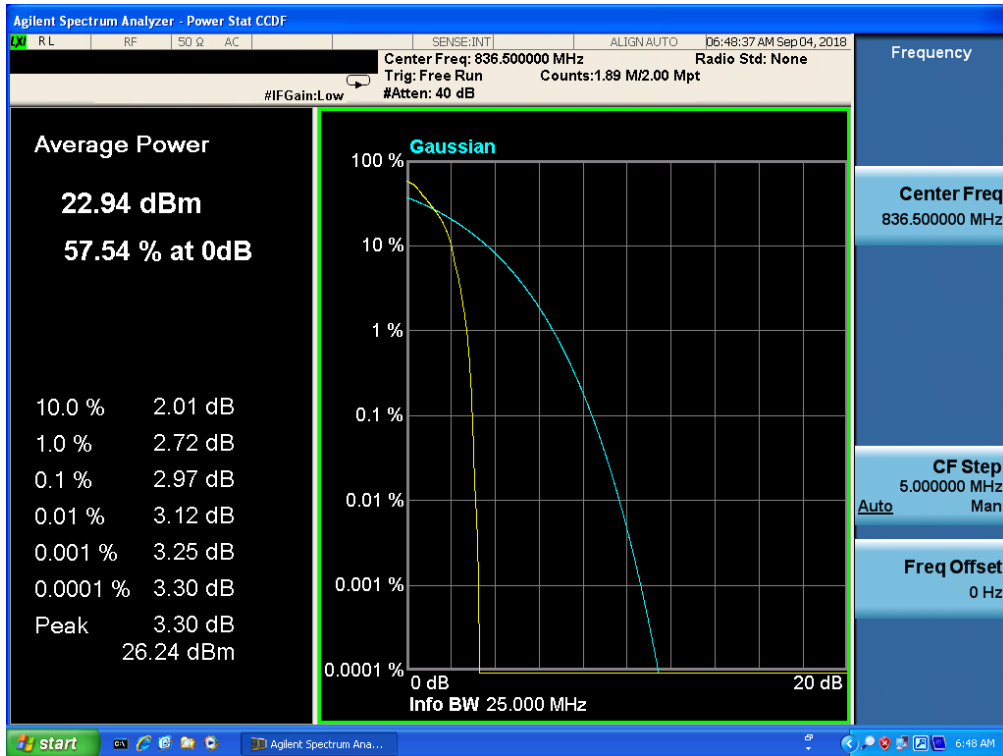
Band 5, UL Channel 20525, UL Frequency 836.5, BW 1.4, NO. RB 1, RB POS. Low, QPSK



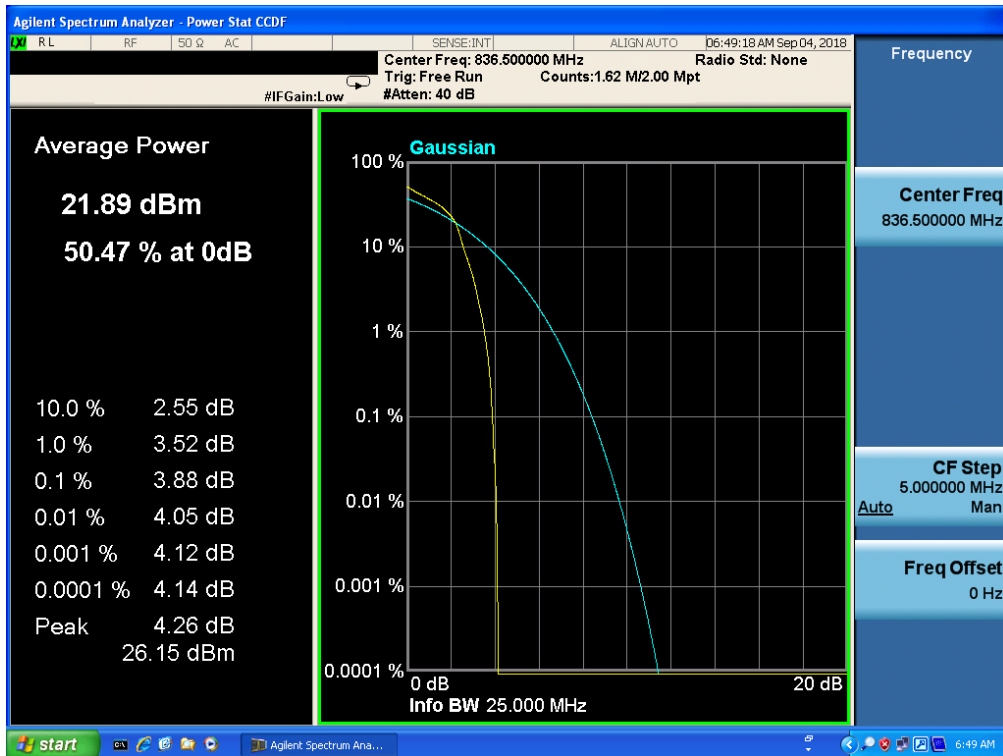
Band 5, UL Channel 20525, UL Frequency 836.5, BW 1.4, NO. RB 1, RB POS. Low, 16-QAM



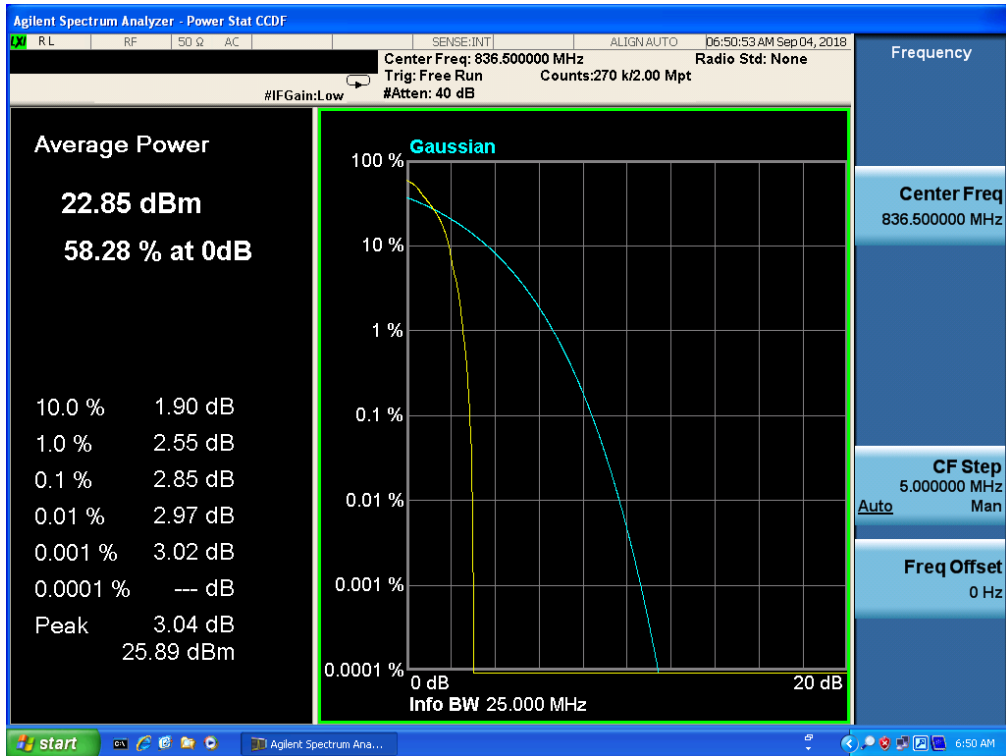
Band 5, UL Channel 20525, UL Frequency 836.5, BW 3.0, NO. RB 1, RB POS. Low, QPSK



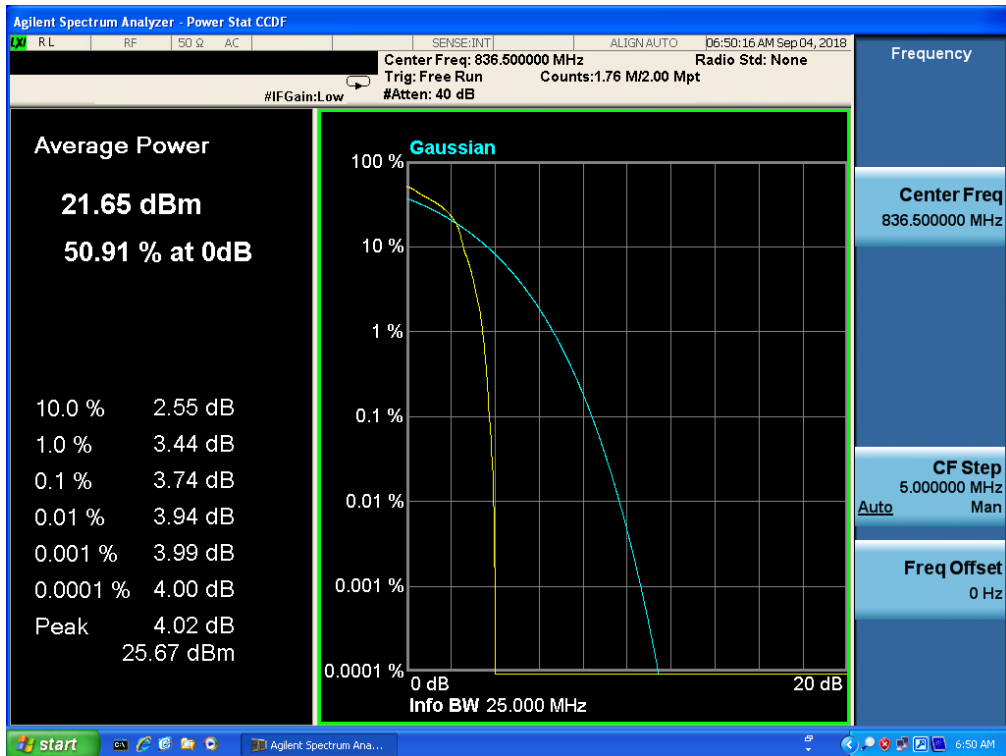
Band 5, UL Channel 20525, UL Frequency 836.5, BW 3.0, NO. RB 1, RB POS. Low, 16-QAM



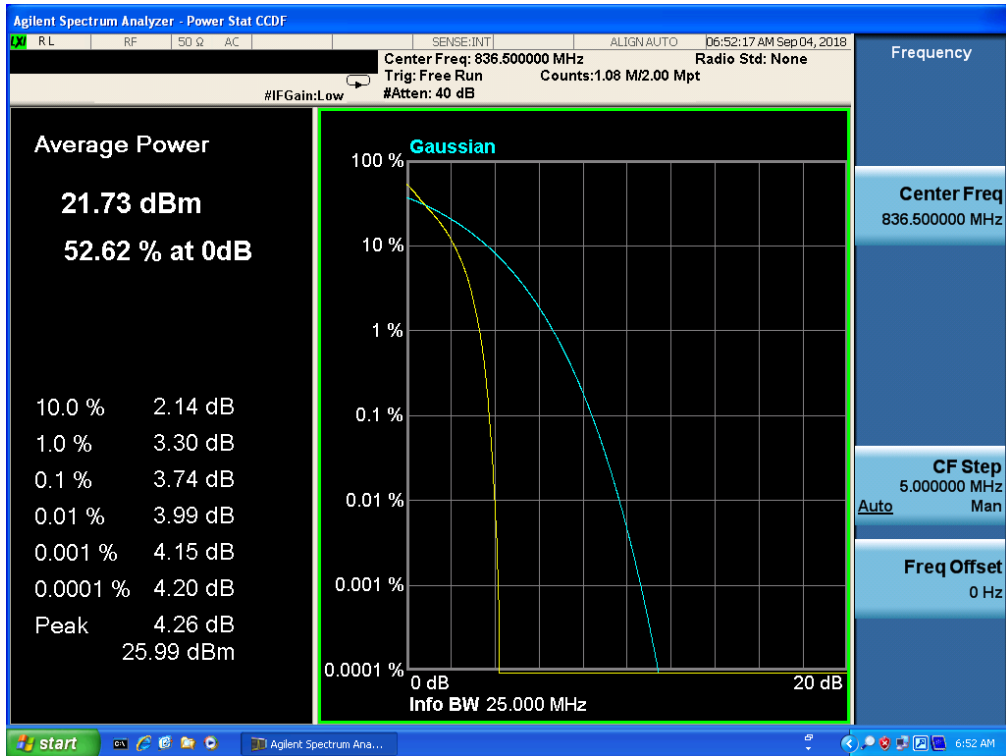
Band 5, UL Channel 20525, UL Frequency 836.5, BW 5.0, NO. RB 1, RB POS. Low, QPSK



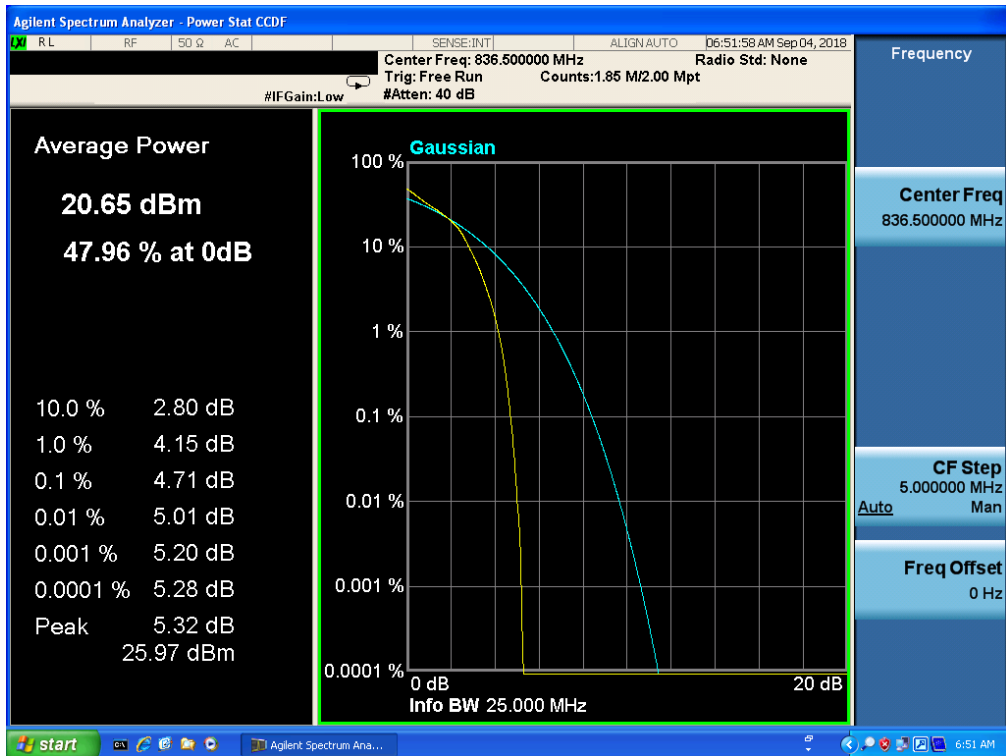
Band 5, UL Channel 20525, UL Frequency 836.5, BW 5.0, NO. RB 1, RB POS. Low, 16-QAM



Band 5, UL Channel 20525, UL Frequency 836.5, BW 10.0, NO. RB 1, RB POS. Low, QPSK

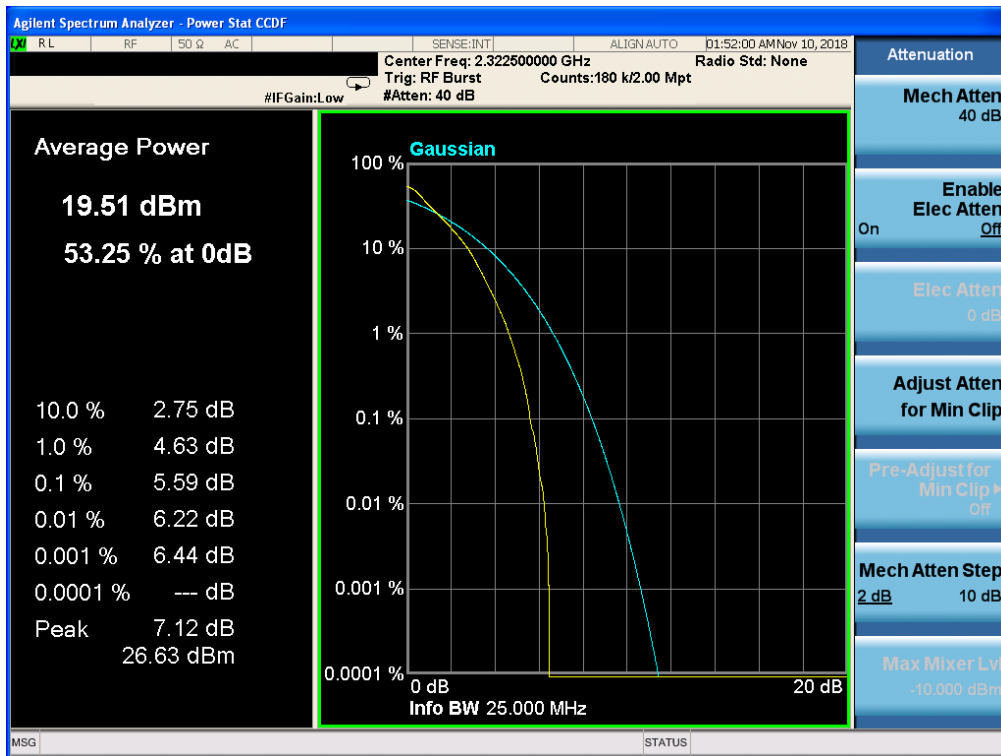


Band 5, UL Channel 20525, UL Frequency 836.5, BW 10.0, NO. RB 1, RB POS. Low, 16-QAM



11.6 LTE BAND 40(2305-2320MHz)

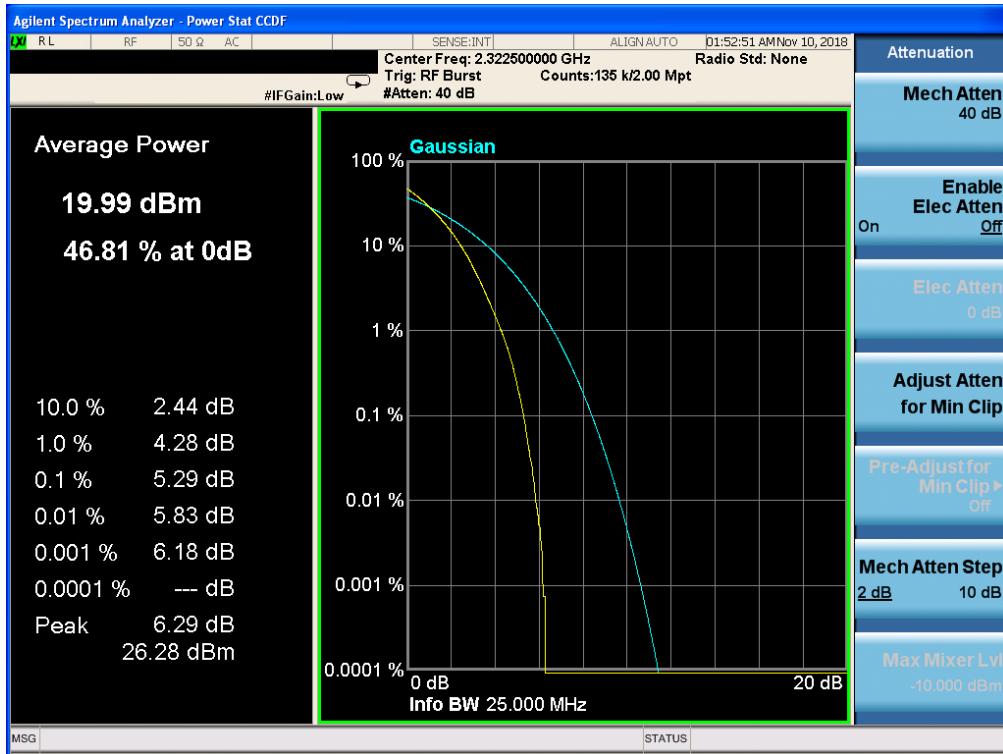
Band 40,UL Channel 38775,UL Frequency 2312.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



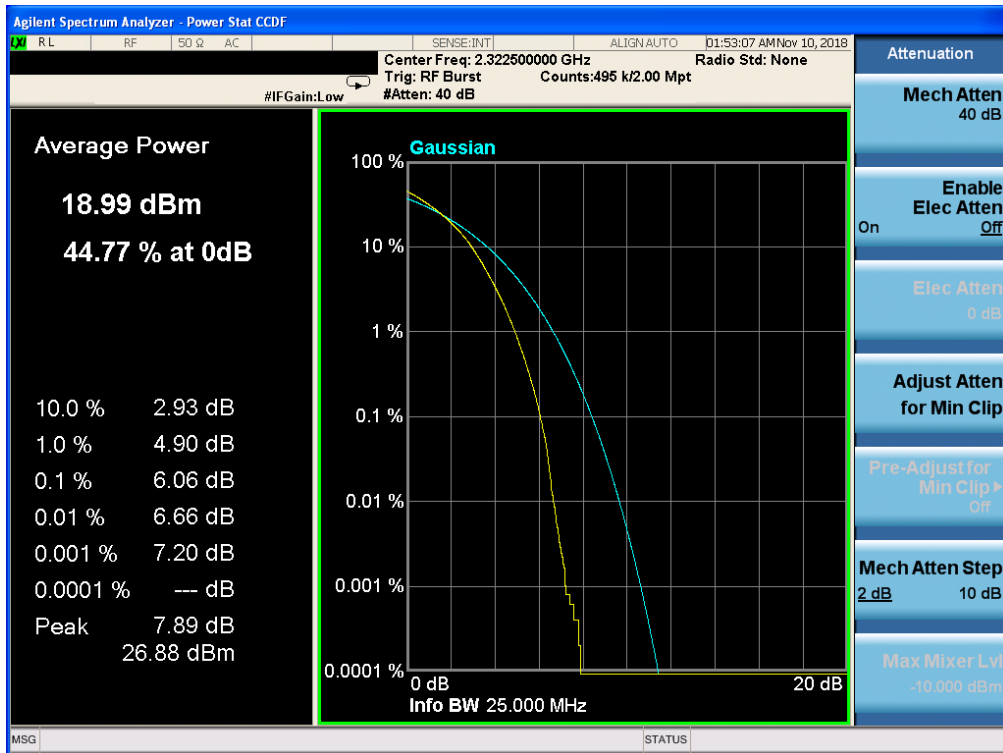
Band 40,UL Channel 38775,UL Frequency 2312.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



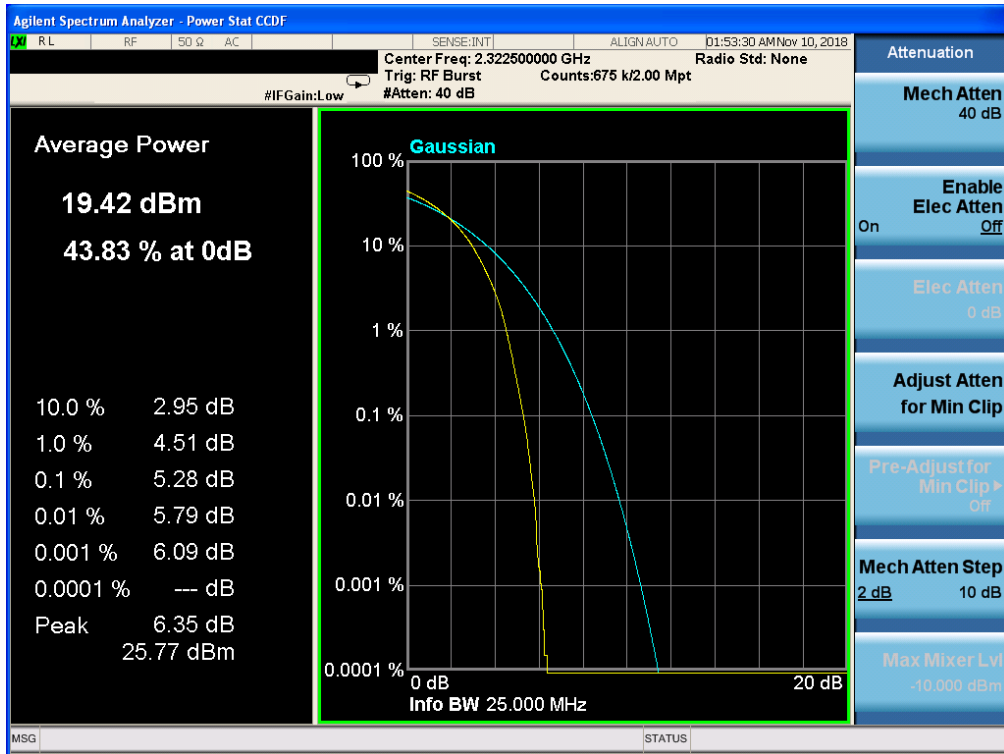
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 10.0, NO. RB 50, RB POS. Low, QPSK



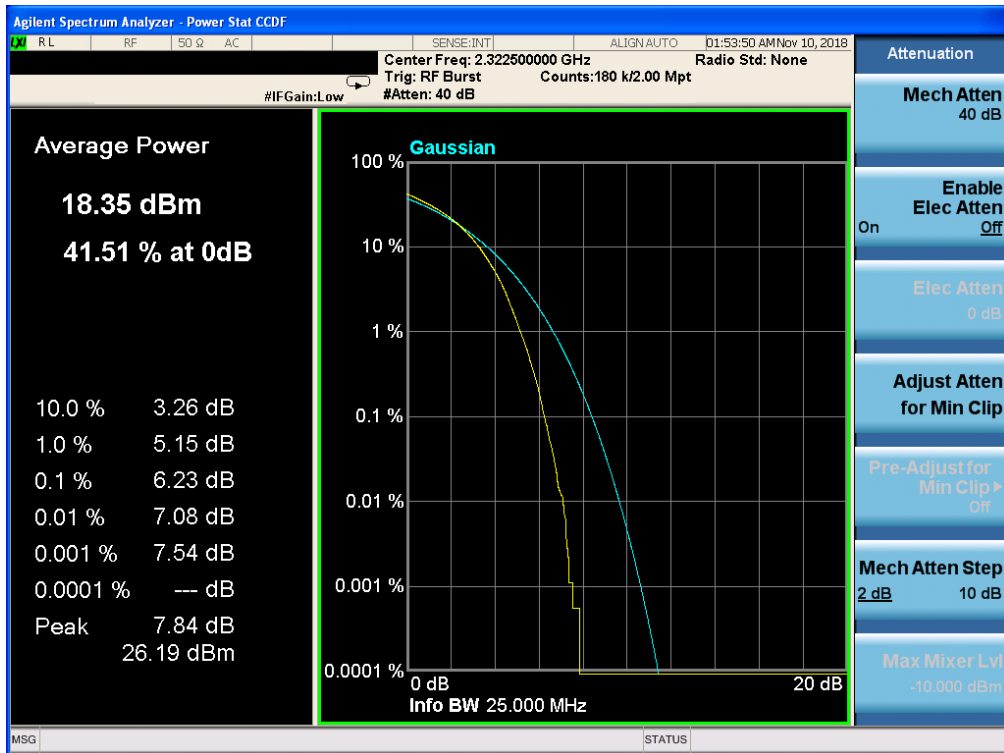
Band 40, UL Channel 38775, UL Frequency 2312.5, BW 10.0, NO. RB 1, RB POS. Low, 16-QAM



Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 1, RB POS. Low, QPSK

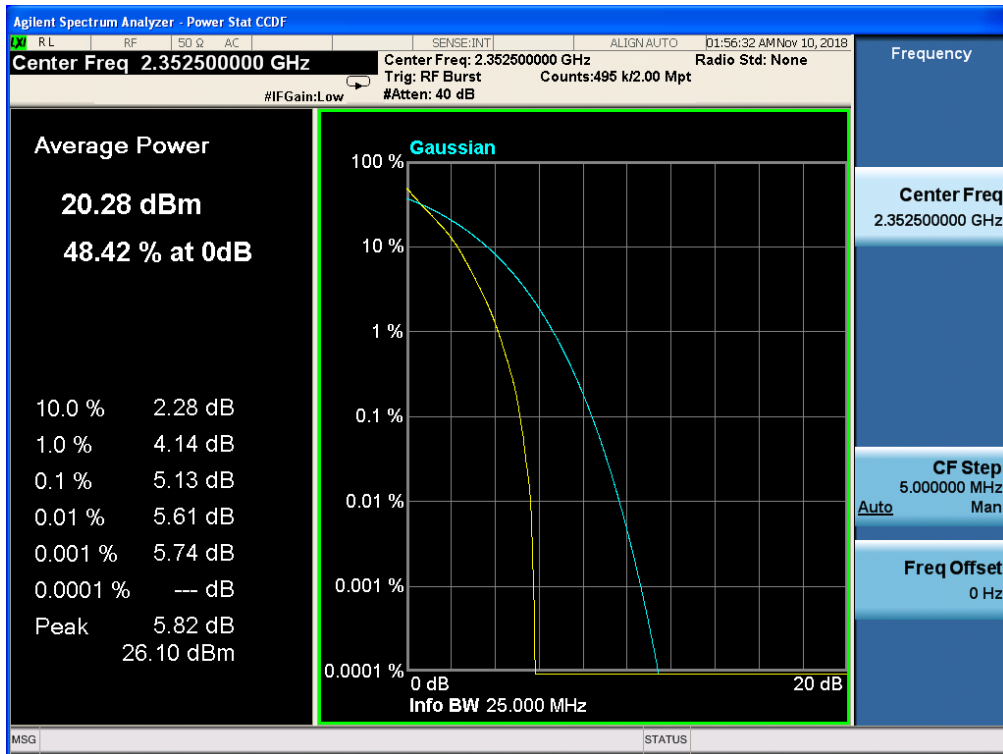


Band 40, UL Channel 38775, UL Frequency 2312.5, BW 15.0, NO. RB 1, RB POS. Low, 16-QAM

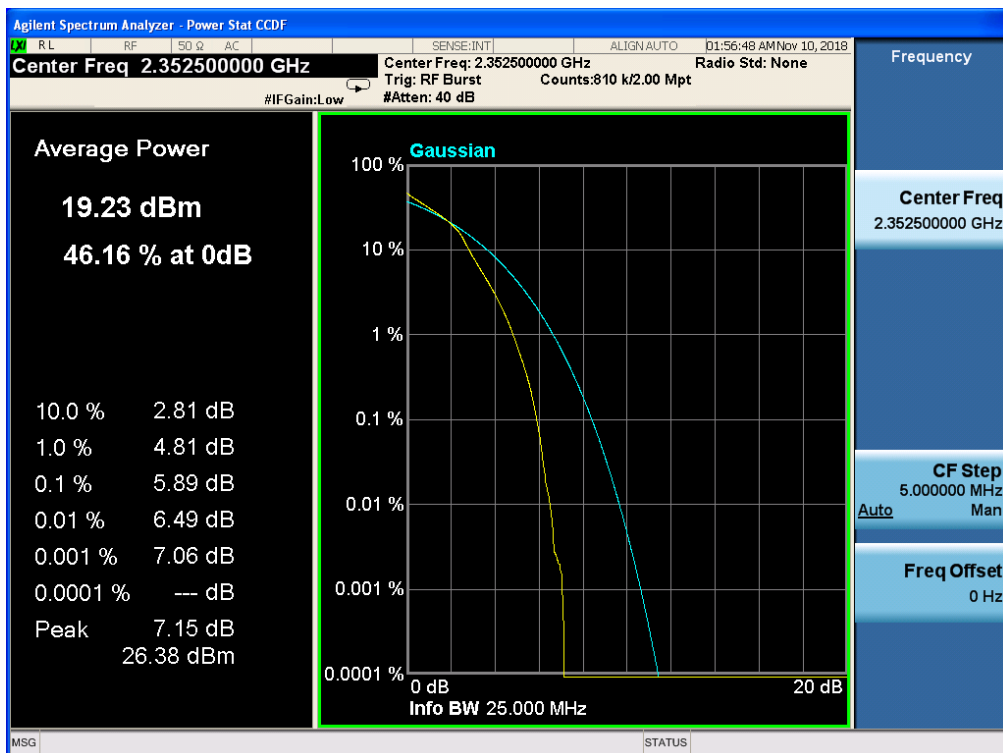


11.7 LTE BAND 40(2345-2360MHz)

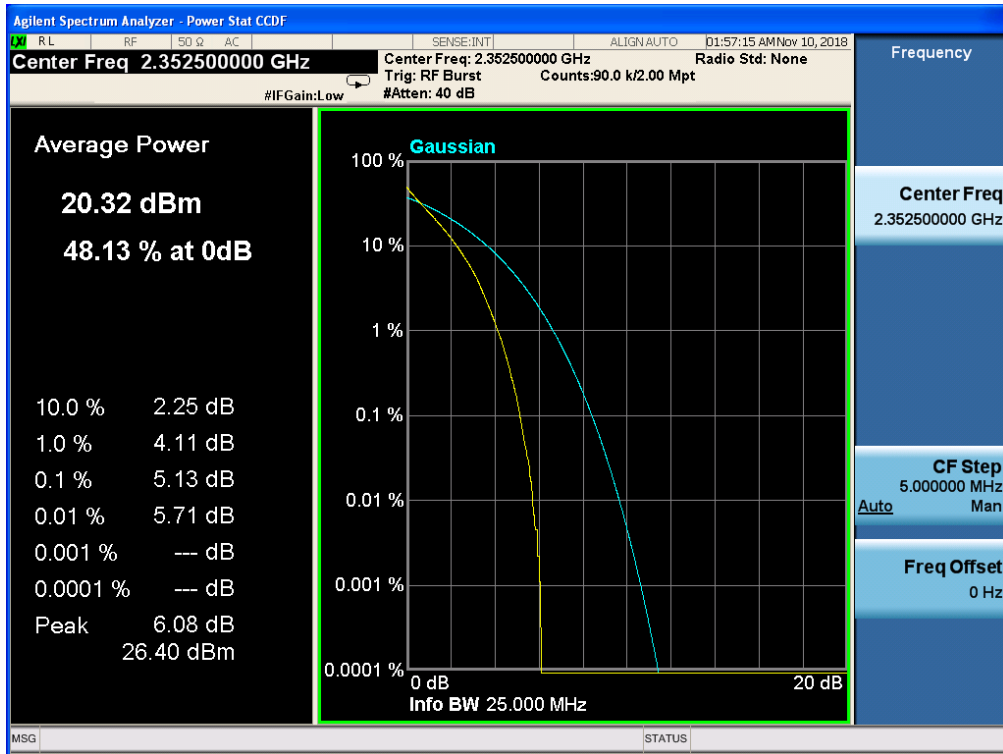
Band 40,UL Channel 39175,UL Frequency 2352.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



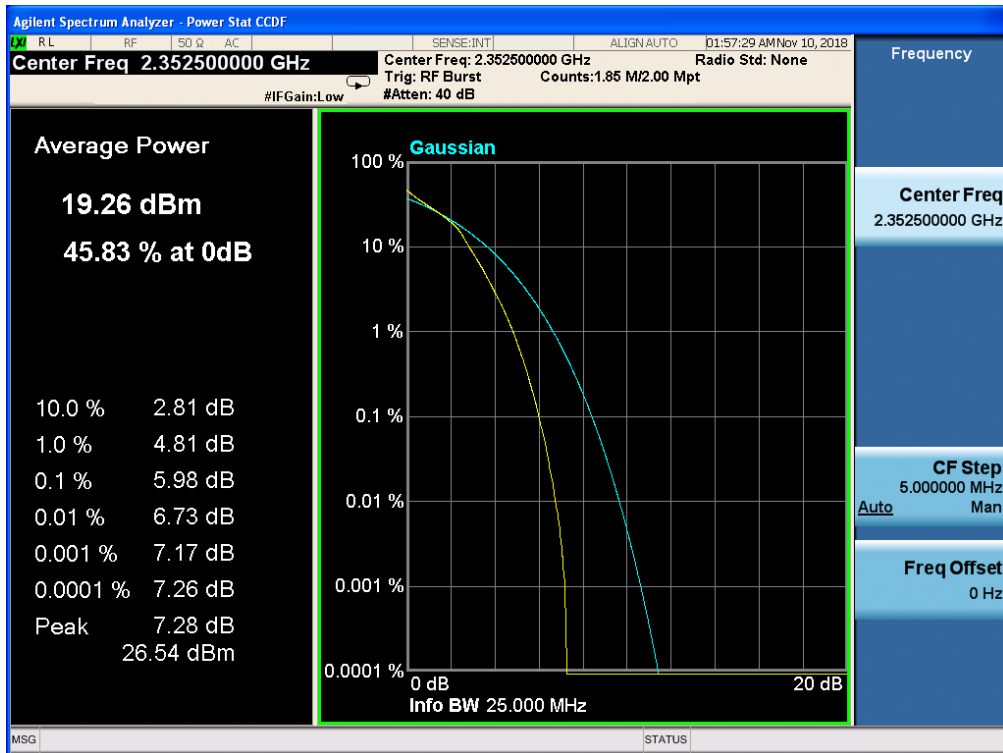
Band 40,UL Channel 39175,UL Frequency 2352.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



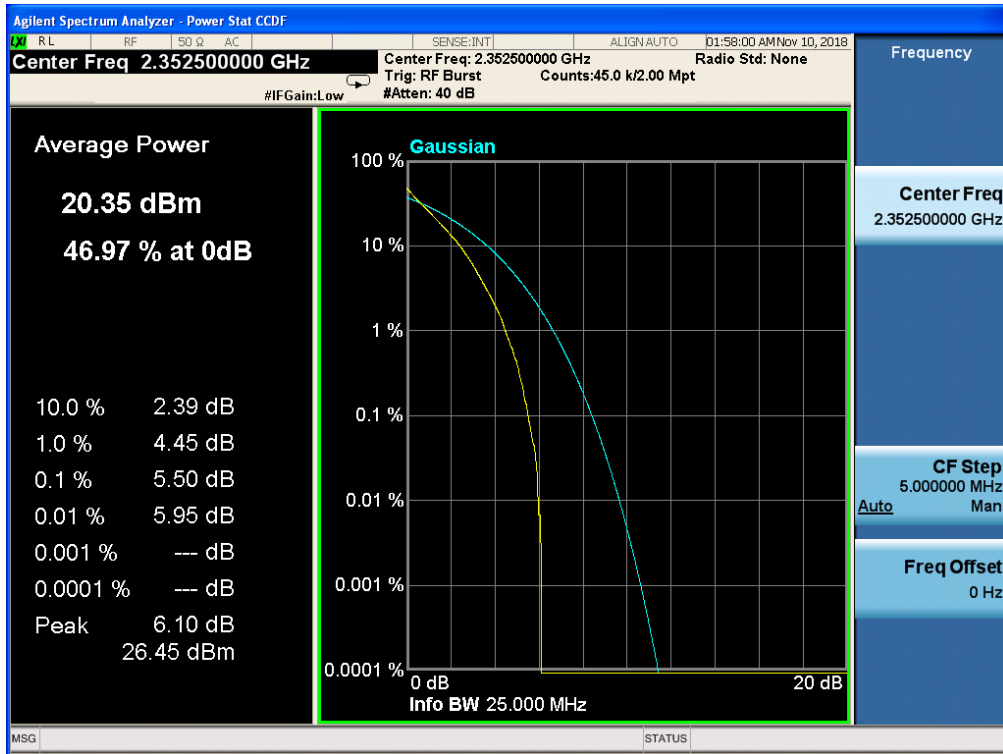
Band 40, UL Channel 39175, UL Frequency 2352.5, BW 10.0, NO. RB 50, RB POS. Low, QPSK



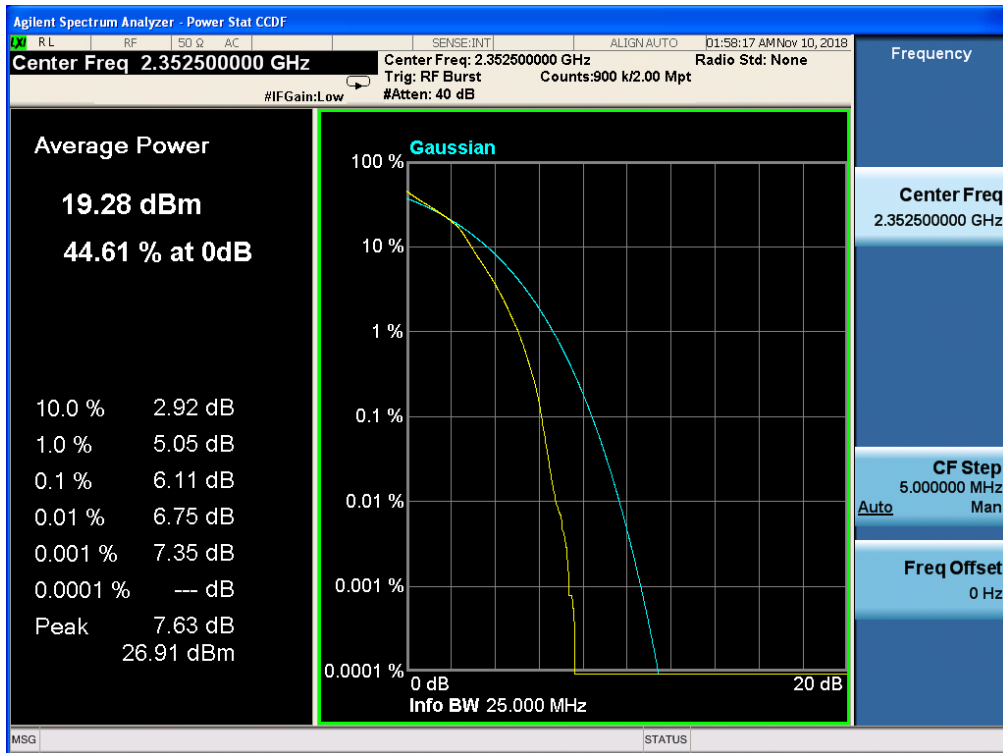
Band 40, UL Channel 39175, UL Frequency 2352.5, BW 10.0, NO. RB 1, RB POS. Low, 16-QAM



Band 40, UL Channel 39175, UL Frequency 2352.5, BW 15.0, NO. RB 1, RB POS. Low, QPSK



Band 40, UL Channel 39175, UL Frequency 2352.5, BW 15.0, NO. RB 1, RB POS. Low, 16-QAM



----END OF REPORT----