1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 66 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.59	22.78	22.51	/	2.53	25.12	25.31	25.04	30.00	PASS
		2	22.58	22.92	22.40	/	2.53	25.11	25.45	24.93	30.00	PASS
		5	22.47	22.82	22.38	/	2.53	25	25.35	24.91	30.00	PASS
	3	0	22.63	22.81	22.51	/	2.53	25.16	25.34	25.04	30.00	PASS
		2	22.72	22.84	22.55	/	2.53	25.25	25.37	25.08	30.00	PASS
		3	22.63	22.79	22.50	/	2.53	25.16	25.32	25.03	30.00	PASS
	6	0	21.67	21.85	21.51	/	2.53	24.2	24.38	24.04	30.00	PASS
16QAM	1		22.35	21.45	21.72	/	2.53	24.88	23.98	24.25	30.00	PASS
		2	22.39	21.81	21.89	/	2.53	24.92	24.34	24.42	30.00	PASS
		5	21.76	22.25	21.74	/	2.53	24.29	24.78	24.27	30.00	PASS
	3	0	21.92	22.40	21.61	/	2.53	24.45	24.93	24.14	30.00	PASS
		2	21.97	22.24	21.55	/	2.53	24.5	24.77	24.08	30.00	PASS
		3	21.68	22.13	21.44	/	2.53	24.21	24.66	23.97	30.00	PASS
	6	0	20.72	20.95	20.66	/	2.53	23.25	23.48	23.19	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 66 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.58	22.61	22.54	/	2.53	25.11	25.14	25.07	30.00	PASS
		7	22.68	22.84	22.49	/	2.53	25.21	25.37	25.02	30.00	PASS
		14	22.73	22.66	22.48	/	2.53	25.26	25.19	25.01	30.00	PASS
	8	0	21.47	21.72	21.48	/	2.53	24	24.25	24.01	30.00	PASS
		4	21.35	21.80	21.51	/	2.53	23.88	24.33	24.04	30.00	PASS
		7	21.35	21.74	21.57	/	2.53	23.88	24.27	24.1	30.00	PASS
	15	0	21.42	21.77	21.48	/	2.53	23.95	24.3	24.01	30.00	PASS
16QAM	1		22.07	21.74	21.66	/	2.53	24.6	24.27	24.19	30.00	PASS
		7	22.20	21.65	21.75	/	2.53	24.73	24.18	24.28	30.00	PASS
		14	22.05	21.61	21.79	/	2.53	24.58	24.14	24.32	30.00	PASS
	8	0	20.81	20.84	20.44	/	2.53	23.34	23.37	22.97	30.00	PASS
		4	20.71	20.94	20.54	/	2.53	23.24	23.47	23.07	30.00	PASS
		7	20.70	20.87	20.50	/	2.53	23.23	23.4	23.03	30.00	PASS
	15	0	20.44	20.89	20.51	/	2.53	22.97	23.42	23.04	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 66 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.28	22.86	22.32	/	2.53	24.81	25.39	24.85	30.00	PASS
		13	22.15	22.65	22.53	/	2.53	24.68	25.18	25.06	30.00	PASS
		24	22.05	22.70	22.33	/	2.53	24.58	25.23	24.86	30.00	PASS
	12	0	21.38	21.80	21.45	/	2.53	23.91	24.33	23.98	30.00	PASS
		6	21.25	21.77	21.45	/	2.53	23.78	24.3	23.98	30.00	PASS
		13	21.27	21.73	21.38	/	2.53	23.8	24.26	23.91	30.00	PASS
	25	0	21.31	21.82	21.36	/	2.53	23.84	24.35	23.89	30.00	PASS
16QAM	1	0	22.02	21.50	20.66	/	2.53	24.55	24.03	23.19	30.00	PASS
		13	21.58	21.36	20.67	/	2.53	24.11	23.89	23.2	30.00	PASS
		24	21.46	21.42	20.77	/	2.53	23.99	23.95	23.3	30.00	PASS
	12	0	20.28	20.62	20.39	/	2.53	22.81	23.15	22.92	30.00	PASS
		6	20.00	20.61	20.62	/	2.53	22.53	23.14	23.15	30.00	PASS
		13	20.02	20.65	20.66	/	2.53	22.55	23.18	23.19	30.00	PASS
	25	0	20.36	20.79	20.59	/	2.53	22.89	23.32	23.12	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 66 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.55	22.75	22.52	/	2.53	25.08	25.28	25.05	30.00	PASS
		25	22.20	22.91	22.57	/	2.53	24.73	25.44	25.1	30.00	PASS
		49	22.38	22.67	22.39	/	2.53	24.91	25.2	24.92	30.00	PASS
	25	0	21.37	21.75	21.47	/	2.53	23.9	24.28	24	30.00	PASS
		13	21.25	21.76	21.43	/	2.53	23.78	24.29	23.96	30.00	PASS
		25	21.30	21.60	21.46	/	2.53	23.83	24.13	23.99	30.00	PASS
	50	0	21.21	21.74	21.42	/	2.53	23.74	24.27	23.95	30.00	PASS
16QAM	1	0	22.27	21.57	21.34	/	2.53	24.8	24.1	23.87	30.00	PASS
		25	21.65	21.65	21.99	/	2.53	24.18	24.18	24.52	30.00	PASS
		49	21.74	21.20	21.78	/	2.53	24.27	23.73	24.31	30.00	PASS
	25	0	20.43	20.68	20.27	/	2.53	22.96	23.21	22.8	30.00	PASS
		13	20.18	20.70	20.62	/	2.53	22.71	23.23	23.15	30.00	PASS
		25	20.42	20.51	20.69	/	2.53	22.95	23.04	23.22	30.00	PASS
	50	0	20.25	20.70	20.43	/	2.53	22.78	23.23	22.96	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 66 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.28	22.48	22.33	/	2.53	24.81	25.01	24.86	30.00	PASS
		38	22.26	22.67	22.44	/	2.53	24.79	25.2	24.97	30.00	PASS
		74	22.55	22.54	22.46	/	2.53	25.08	25.07	24.99	30.00	PASS
	36	0	21.23	21.76	21.38	/	2.53	23.76	24.29	23.91	30.00	PASS
		18	21.25	21.75	21.55	/	2.53	23.78	24.28	24.08	30.00	PASS
		39	21.33	21.57	21.47	/	2.53	23.86	24.1	24	30.00	PASS
	75	0	21.24	21.66	21.42	/	2.53	23.77	24.19	23.95	30.00	PASS
16QAM	1	0	22.06	21.84	21.56	/	2.53	24.59	24.37	24.09	30.00	PASS
		38	21.76	21.84	21.77	/	2.53	24.29	24.37	24.3	30.00	PASS
		74	21.97	21.09	21.77	/	2.53	24.5	23.62	24.3	30.00	PASS
	36	0	20.19	20.69	20.38	/	2.53	22.72	23.22	22.91	30.00	PASS
		18	20.27	20.69	20.45	/	2.53	22.8	23.22	22.98	30.00	PASS
		39	20.47	20.59	20.54	/	2.53	23	23.12	23.07	30.00	PASS
	75	0	20.20	20.83	20.50	/	2.53	22.73	23.36	23.03	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 66 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.61	22.63	22.53	/	2.53	25.14	25.16	25.06	30.00	PASS
		50	22.68	22.84	22.59	/	2.53	25.21	25.37	25.12	30.00	PASS
		99	22.65	22.31	22.49	/	2.53	25.18	24.84	25.02	30.00	PASS
	50	0	21.24	21.82	21.35	/	2.53	23.77	24.35	23.88	30.00	PASS
		25	21.34	21.74	21.49	/	2.53	23.87	24.27	24.02	30.00	PASS
		50	21.38	21.60	21.52	/	2.53	23.91	24.13	24.05	30.00	PASS
	100	0	21.30	21.76	21.45	/	2.53	23.83	24.29	23.98	30.00	PASS
16QAM	1	0	21.35	22.47	21.90	/	2.53	23.88	25	24.43	30.00	PASS
		50	21.27	23.11	22.15	/	2.53	23.8	25.64	24.68	30.00	PASS
		99	21.36	22.43	22.00	/	2.53	23.89	24.96	24.53	30.00	PASS
	50	0	20.17	20.84	20.39	/	2.53	22.7	23.37	22.92	30.00	PASS
		25	20.36	20.70	20.63	/	2.53	22.89	23.23	23.16	30.00	PASS
		50	20.40	20.48	20.58	/	2.53	22.93	23.01	23.11	30.00	PASS
	100	0	20.24	20.74	20.53	/	2.53	22.77	23.27	23.06	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

2. Frequency stability

2.1 Test Result

Test Band: 66 _ 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	2.4319	-3.2902	-0.0858	0.0014	-0.0019	0.0000	2.50	PASS
				NV	0.8440	-2.1029	0.1860	0.0005	-0.0012	0.0001	2.50	PASS
				HV	1.8740	-2.4891	1.2159	0.0011	-0.0014	0.0007	2.50	PASS
16QAM	6	0	NT	LV	1.8024	-2.7895	0.3576	0.0011	-0.0016	0.0002	2.50	PASS
				NV	1.3590	-2.4033	0.3433	0.0008	-0.0014	0.0002	2.50	PASS
				HV	1.4591	-3.3760	1.4162	0.0009	-0.0019	0.0008	2.50	PASS

Test Band: 66 _ 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	1.6451	-3.3617	-1.1158	0.0010	-0.0019	-0.0006	2.50	PASS
				-20.00	2.1458	-3.3045	0.1431	0.0013	-0.0019	0.0001	2.50	PASS
				-10.00	0.9012	-1.6451	1.0157	0.0005	-0.0009	0.0006	2.50	PASS
				0.00	2.0599	-2.2316	1.1444	0.0012	-0.0013	0.0006	2.50	PASS
				10.00	1.2588	-2.9325	0.7153	0.0007	-0.0017	0.0004	2.50	PASS
				20.00	1.2445	-3.4618	-0.2861	0.0007	-0.0020	-0.0002	2.50	PASS
				30.00	1.7023	-3.5334	-0.1144	0.0010	-0.0020	-0.0001	2.50	PASS
				40.00	1.6594	-3.6049	-0.8726	0.0010	-0.0021	-0.0005	2.50	PASS
				50.00	1.4162	-3.3474	0.3719	0.0008	-0.0019	0.0002	2.50	PASS
16QAM	6	0	NV	-30.00	1.6594	-3.1185	0.2289	0.0010	-0.0018	0.0001	2.50	PASS
				-20.00	2.2316	-2.9325	-0.1574	0.0013	-0.0017	-0.0001	2.50	PASS
				-10.00	0.3147	-2.9898	1.3161	0.0002	-0.0017	0.0007	2.50	PASS
				0.00	2.1744	-2.7180	-1.1587	0.0013	-0.0016	-0.0007	2.50	PASS
				10.00	1.0014	-1.8311	1.0443	0.0006	-0.0010	0.0006	2.50	PASS
				20.00	1.9741	-2.4176	-0.6008	0.0012	-0.0014	-0.0003	2.50	PASS
				30.00	1.2302	-3.0470	0.8440	0.0007	-0.0017	0.0005	2.50	PASS
				40.00	2.9898	-2.3603	-1.2875	0.0017	-0.0014	-0.0007	2.50	PASS
				50.00	0.5007	-2.3031	-1.1015	0.0003	-0.0013	-0.0006	2.50	PASS

Test Band: 66 _ 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-0.7582	-2.4319	-0.0572	-0.0004	-0.0014	0.0000	2.50	PASS
				NV	1.0586	-3.5906	0.4435	0.0006	-0.0021	0.0002	2.50	PASS
				HV	0.9441	-3.3188	2.0885	0.0006	-0.0019	0.0012	2.50	PASS
16QAM	15	0	NT	LV	-0.0429	-3.3331	1.4734	0.0000	-0.0019	0.0008	2.50	PASS
				NV	0.2718	-3.0470	0.1431	0.0002	-0.0017	0.0001	2.50	PASS
				HV	0.8297	-3.1185	2.3746	0.0005	-0.0018	0.0013	2.50	PASS

Test Band: 66 _ 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	1.6451	-2.7609	3.2759	0.0010	-0.0016	0.0018	2.50	PASS
				-20.00	-0.3433	-2.1458	0.5579	-0.0002	-0.0012	0.0003	2.50	PASS
				-10.00	0.5293	-2.3746	1.0872	0.0003	-0.0014	0.0006	2.50	PASS
				0.00	1.2302	-1.6451	0.7296	0.0007	-0.0009	0.0004	2.50	PASS
				10.00	-0.0858	-1.9884	0.0000	-0.0001	-0.0011	0.0000	2.50	PASS
				20.00	0.1431	-2.5034	1.5163	0.0001	-0.0014	0.0009	2.50	PASS
				30.00	-0.4721	-3.0041	1.9598	-0.0003	-0.0017	0.0011	2.50	PASS
				40.00	0.2718	-2.2316	1.5879	0.0002	-0.0013	0.0009	2.50	PASS
				50.00	-0.1001	-2.3031	2.7180	-0.0001	-0.0013	0.0015	2.50	PASS
16QAM	15	0	NV	-30.00	0.2861	-4.4489	2.0170	0.0002	-0.0025	0.0011	2.50	PASS
				-20.00	0.7010	-2.5034	1.9884	0.0004	-0.0014	0.0011	2.50	PASS
				-10.00	0.2146	-2.7323	0.1144	0.0001	-0.0016	0.0001	2.50	PASS
				0.00	1.0872	-3.1328	1.5306	0.0006	-0.0018	0.0009	2.50	PASS
				10.00	0.5579	-3.5191	0.3433	0.0003	-0.0020	0.0002	2.50	PASS
				20.00	0.4005	-3.2473	1.6451	0.0002	-0.0019	0.0009	2.50	PASS
				30.00	-0.7296	-2.7895	3.0184	-0.0004	-0.0016	0.0017	2.50	PASS
				40.00	-0.4435	-2.8324	1.1015	-0.0003	-0.0016	0.0006	2.50	PASS
				50.00	0.0000	-3.2330	0.5007	0.0000	-0.0019	0.0003	2.50	PASS

Test Band: 66 _ 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	0.6008	-4.1342	-0.4578	0.0004	-0.0024	-0.0003	2.50	PASS
				NV	1.3161	-2.9325	-0.4578	0.0008	-0.0017	-0.0003	2.50	PASS
				HV	1.8024	-3.1185	1.5020	0.0011	-0.0018	0.0008	2.50	PASS
16QAM	25	0	NT	LV	2.0456	-4.2772	1.5879	0.0012	-0.0025	0.0009	2.50	PASS
				NV	2.2030	-2.6894	0.2575	0.0013	-0.0015	0.0001	2.50	PASS
				HV	-0.3004	-1.7309	0.2146	-0.0002	-0.0010	0.0001	2.50	PASS

Test Band: 66 _ 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	0.6723	-4.0770	-1.0872	0.0004	-0.0023	-0.0006	2.50	PASS
				-20.00	2.1029	-4.4060	-0.9155	0.0012	-0.0025	-0.0005	2.50	PASS
				-10.00	1.7452	-3.6907	-0.1001	0.0010	-0.0021	-0.0001	2.50	PASS
				0.00	0.8869	-4.1199	0.6294	0.0005	-0.0024	0.0004	2.50	PASS
				10.00	2.1315	-3.6192	0.1574	0.0012	-0.0021	0.0001	2.50	PASS
				20.00	1.6165	-2.8324	-0.1717	0.0009	-0.0016	-0.0001	2.50	PASS
				30.00	1.2016	-1.6594	0.9441	0.0007	-0.0010	0.0005	2.50	PASS
				40.00	2.1744	-1.5879	0.3147	0.0013	-0.0009	0.0002	2.50	PASS
				50.00	0.3862	-3.1042	-0.4435	0.0002	-0.0018	-0.0002	2.50	PASS
16QAM	25	0	NV	-30.00	1.5879	-1.9741	-0.1717	0.0009	-0.0011	-0.0001	2.50	PASS
				-20.00	1.0443	-2.6464	0.0429	0.0006	-0.0015	0.0000	2.50	PASS
				-10.00	0.8726	-3.1328	0.8297	0.0005	-0.0018	0.0005	2.50	PASS
				0.00	0.7582	-2.6178	1.0443	0.0004	-0.0015	0.0006	2.50	PASS
				10.00	1.9026	-2.3460	-0.2718	0.0011	-0.0013	-0.0002	2.50	PASS
				20.00	0.1001	-3.3474	1.1873	0.0001	-0.0019	0.0007	2.50	PASS

				30.00	1.6737	-1.7166	0.9441	0.0010	-0.0010	0.0005	2.50	PASS
				40.00	1.4734	-3.1042	0.1144	0.0009	-0.0018	0.0001	2.50	PASS
				50.00	0.7296	-3.5191	0.2575	0.0004	-0.0020	0.0001	2.50	PASS

Test Band: 66 _ 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-1.5163	-2.8753	-2.7037	-0.0009	-0.0016	-0.0015	2.50	PASS
				NV	-2.1887	-2.7323	-2.3890	-0.0013	-0.0016	-0.0013	2.50	PASS
				HV	-2.1887	-1.6880	-3.0613	-0.0013	-0.0010	-0.0017	2.50	PASS
16QAM	50	0	NT	LV	-2.6464	-2.5749	-3.2902	-0.0015	-0.0015	-0.0019	2.50	PASS
				NV	-3.1614	-2.5606	-3.0184	-0.0018	-0.0015	-0.0017	2.50	PASS
				HV	-3.0327	-2.3031	-2.7180	-0.0018	-0.0013	-0.0015	2.50	PASS

Test Band: 66 _ 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-1.4305	-1.6880	-2.9039	-0.0008	-0.0010	-0.0016	2.50	PASS
				-20.00	-2.3031	-2.7323	-2.8610	-0.0013	-0.0016	-0.0016	2.50	PASS
				-10.00	-2.0456	-1.7738	-3.1471	-0.0012	-0.0010	-0.0018	2.50	PASS
				0.00	-1.8311	-1.9312	-3.8910	-0.0011	-0.0011	-0.0022	2.50	PASS
				10.00	-2.0885	-3.5048	-2.0599	-0.0012	-0.0020	-0.0012	2.50	PASS
				20.00	-2.0027	-2.8753	-3.2187	-0.0012	-0.0016	-0.0018	2.50	PASS
				30.00	-1.7309	-3.0613	-3.0327	-0.0010	-0.0018	-0.0017	2.50	PASS
				40.00	-2.2745	-2.7323	-2.5892	-0.0013	-0.0016	-0.0015	2.50	PASS
				50.00	-1.2875	-3.3903	-1.8597	-0.0008	-0.0019	-0.0010	2.50	PASS
16QAM	50	0	NV	-30.00	-2.1601	-2.8753	-2.6608	-0.0013	-0.0016	-0.0015	2.50	PASS
				-20.00	-2.3174	-2.3031	-3.0470	-0.0014	-0.0013	-0.0017	2.50	PASS
				-10.00	-2.6608	-1.0586	-3.6335	-0.0016	-0.0006	-0.0020	2.50	PASS
				0.00	-2.2602	-2.4462	-2.0599	-0.0013	-0.0014	-0.0012	2.50	PASS
				10.00	-3.2902	-3.9768	-1.3876	-0.0019	-0.0023	-0.0008	2.50	PASS
				20.00	-3.8910	-4.5490	-1.8024	-0.0023	-0.0026	-0.0010	2.50	PASS
				30.00	-2.1029	-2.7466	-2.0885	-0.0012	-0.0016	-0.0012	2.50	PASS
				40.00	-3.4761	-2.4891	-1.4591	-0.0020	-0.0014	-0.0008	2.50	PASS
				50.00	-2.8038	-3.0327	-2.5606	-0.0016	-0.0017	-0.0014	2.50	PASS

Test Band: 66 _ 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	0.9012	-2.5463	1.4019	0.0005	-0.0015	0.0008	2.50	PASS
				NV	1.1587	-3.0041	1.4877	0.0007	-0.0017	0.0008	2.50	PASS
				HV	0.2575	-2.2888	1.0729	0.0001	-0.0013	0.0006	2.50	PASS
16QAM	75	0	NT	LV	0.6151	-4.3058	1.7023	0.0004	-0.0025	0.0010	2.50	PASS
				NV	0.9584	-3.8481	1.5879	0.0006	-0.0022	0.0009	2.50	PASS
				HV	0.2003	-2.6751	1.8168	0.0001	-0.0015	0.0010	2.50	PASS

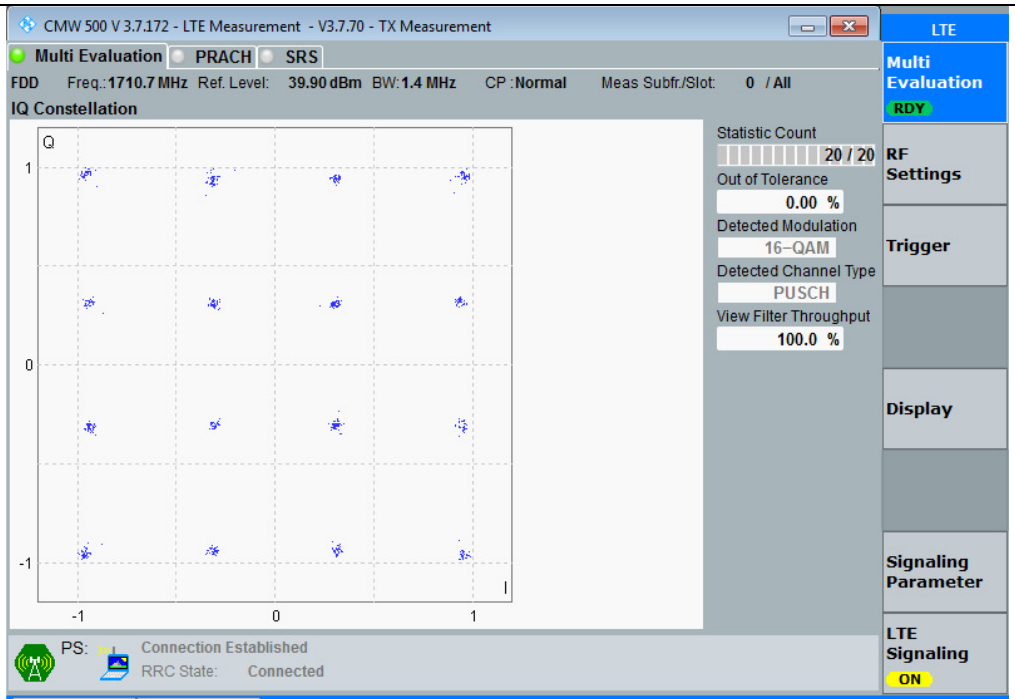
Test Band: 66 _ 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	-0.1144	-2.4176	0.7296	-0.0001	-0.0014	0.0004	2.50	PASS
				-20.00	-0.8869	-3.0899	1.2016	-0.0005	-0.0018	0.0007	2.50	PASS
				-10.00	-0.0572	-3.6764	1.2302	0.0000	-0.0021	0.0007	2.50	PASS
				0.00	0.1144	-2.9039	0.6294	0.0001	-0.0017	0.0004	2.50	PASS
				10.00	0.8297	-3.1900	1.1587	0.0005	-0.0018	0.0007	2.50	PASS
				20.00	0.9298	-3.2759	1.5163	0.0005	-0.0019	0.0009	2.50	PASS
				30.00	0.2861	-2.8753	1.0014	0.0002	-0.0016	0.0006	2.50	PASS
				40.00	-0.2003	-2.6321	1.4877	-0.0001	-0.0015	0.0008	2.50	PASS
				50.00	0.0572	-3.3903	0.9871	0.0000	-0.0019	0.0006	2.50	PASS
16QAM	75	0	NV	-30.00	0.4578	-3.3474	0.5722	0.0003	-0.0019	0.0003	2.50	PASS
				-20.00	0.1144	-2.4748	2.6178	0.0001	-0.0014	0.0015	2.50	PASS
				-10.00	0.2575	-3.8767	2.1887	0.0001	-0.0022	0.0012	2.50	PASS
				0.00	-0.1144	-2.7180	1.9741	-0.0001	-0.0016	0.0011	2.50	PASS
				10.00	0.8869	-2.2459	1.6022	0.0005	-0.0013	0.0009	2.50	PASS
				20.00	0.0286	-2.1172	2.5463	0.0000	-0.0012	0.0014	2.50	PASS
				30.00	-0.0429	-2.2602	2.3317	0.0000	-0.0013	0.0013	2.50	PASS
				40.00	0.4292	-3.4761	1.4734	0.0002	-0.0020	0.0008	2.50	PASS
				50.00	-0.2146	-2.9469	1.3304	-0.0001	-0.0017	0.0008	2.50	PASS

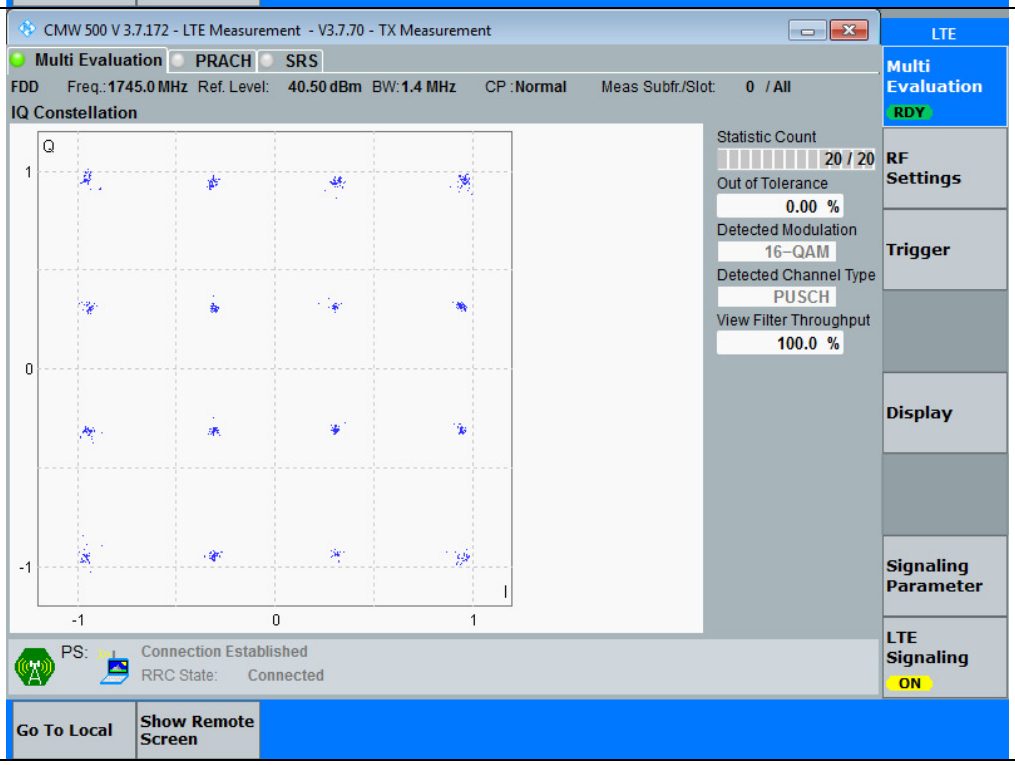
Test Band: 66 _ 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	2.4462	-2.5034	-1.2159	0.0014	-0.0014	-0.0007	2.50	PASS
				NV	1.6308	-3.1471	0.4435	0.0009	-0.0018	0.0003	2.50	PASS
				HV	1.8168	-2.6035	0.4864	0.0011	-0.0015	0.0003	2.50	PASS
16QAM	100	0	NT	LV	2.2030	-2.6608	-0.4292	0.0013	-0.0015	-0.0002	2.50	PASS
				NV	0.7868	-2.7609	0.1574	0.0005	-0.0016	0.0001	2.50	PASS
				HV	1.6165	-3.1471	0.6437	0.0009	-0.0018	0.0004	2.50	PASS

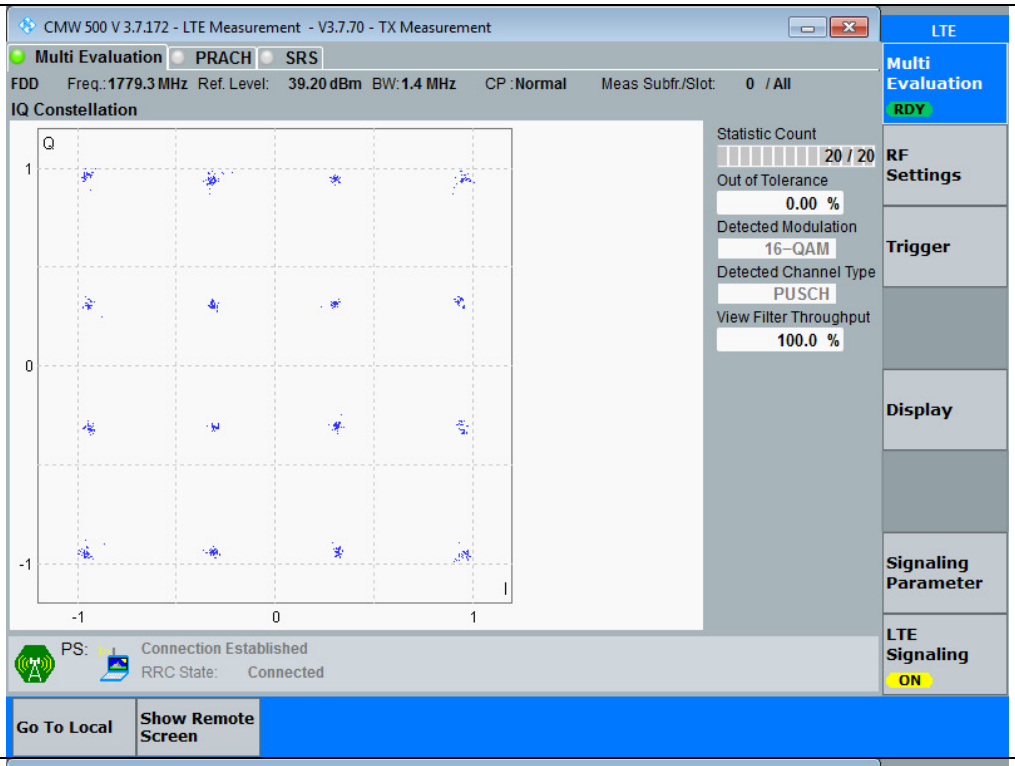
Test Band: 66 _ 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	1.7023	-2.7466	0.0572	0.0010	-0.0016	0.0000	2.50	PASS
				-20.00	1.6022	-2.1315	1.1301	0.0009	-0.0012	0.0006	2.50	PASS
				-10.00	1.6594	-2.6894	0.8011	0.0010	-0.0015	0.0005	2.50	PASS
				0.00	2.0599	-2.4033	1.0872	0.0012	-0.0014	0.0006	2.50	PASS
				10.00	1.6022	-3.6335	0.9155	0.0009	-0.0021	0.0005	2.50	PASS
				20.00	1.7595	-2.7180	0.7010	0.0010	-0.0016	0.0004	2.50	PASS
				30.00	1.1301	-3.1042	-0.0572	0.0007	-0.0018	0.0000	2.50	PASS
				40.00	1.1158	-2.4748	-0.4864	0.0006	-0.0014	-0.0003	2.50	PASS
				50.00	1.3018	-4.0770	-1.0729	0.0008	-0.0023	-0.0006	2.50	PASS
16QAM	100	0	NV	-30.00	1.9026	-2.7180	0.1001	0.0011	-0.0016	0.0001	2.50	PASS
				-20.00	1.5593	-3.1614	0.7153	0.0009	-0.0018	0.0004	2.50	PASS
				-10.00	1.5450	-2.8038	-0.0858	0.0009	-0.0016	0.0000	2.50	PASS
				0.00	1.7595	-3.2902	1.0729	0.0010	-0.0019	0.0006	2.50	PASS
				10.00	2.3890	-3.2473	0.3433	0.0014	-0.0019	0.0002	2.50	PASS
				20.00	0.8440	-2.7180	-0.0858	0.0005	-0.0016	0.0000	2.50	PASS
				30.00	0.9871	-3.8910	0.1860	0.0006	-0.0022	0.0001	2.50	PASS
				40.00	1.5306	-2.5606	-0.1287	0.0009	-0.0015	-0.0001	2.50	PASS
				50.00	1.2445	-3.9911	1.2445	0.0007	-0.0023	0.0007	2.50	PASS

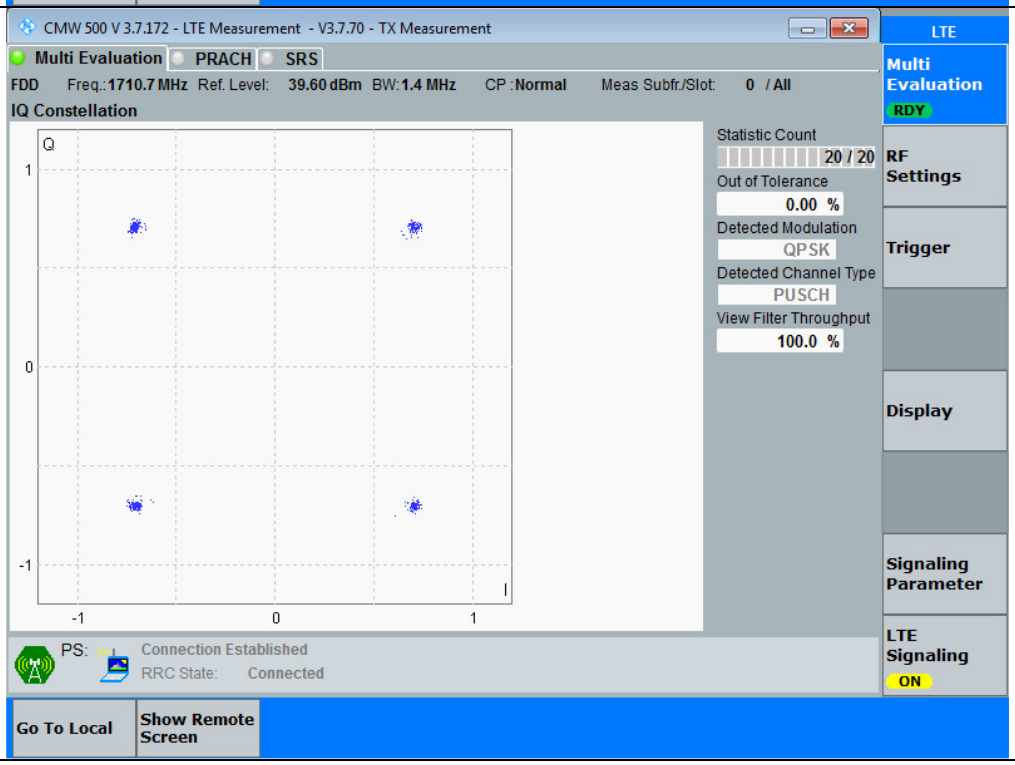
3. Modulation Characteristics

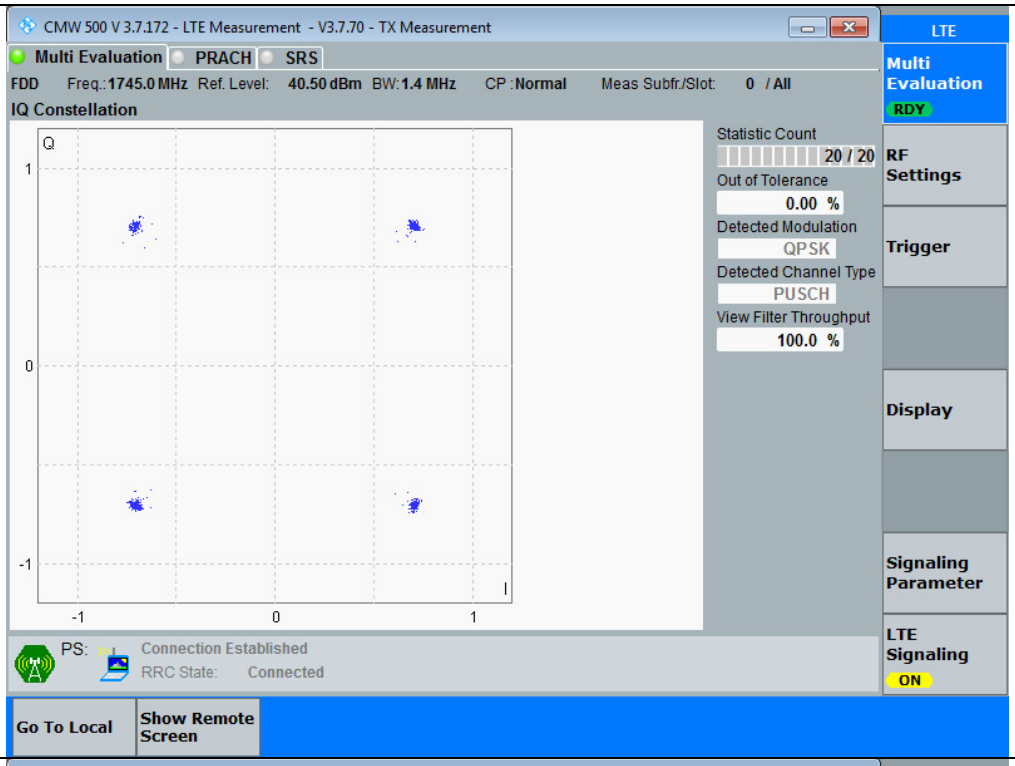
3.1 Test Graph

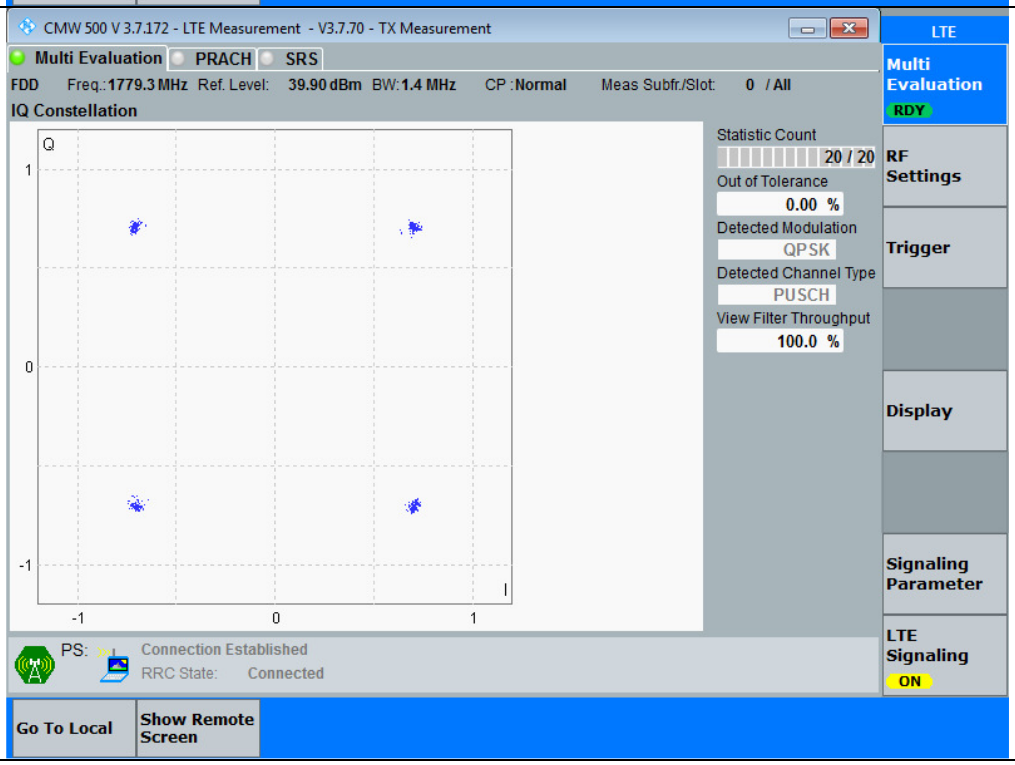




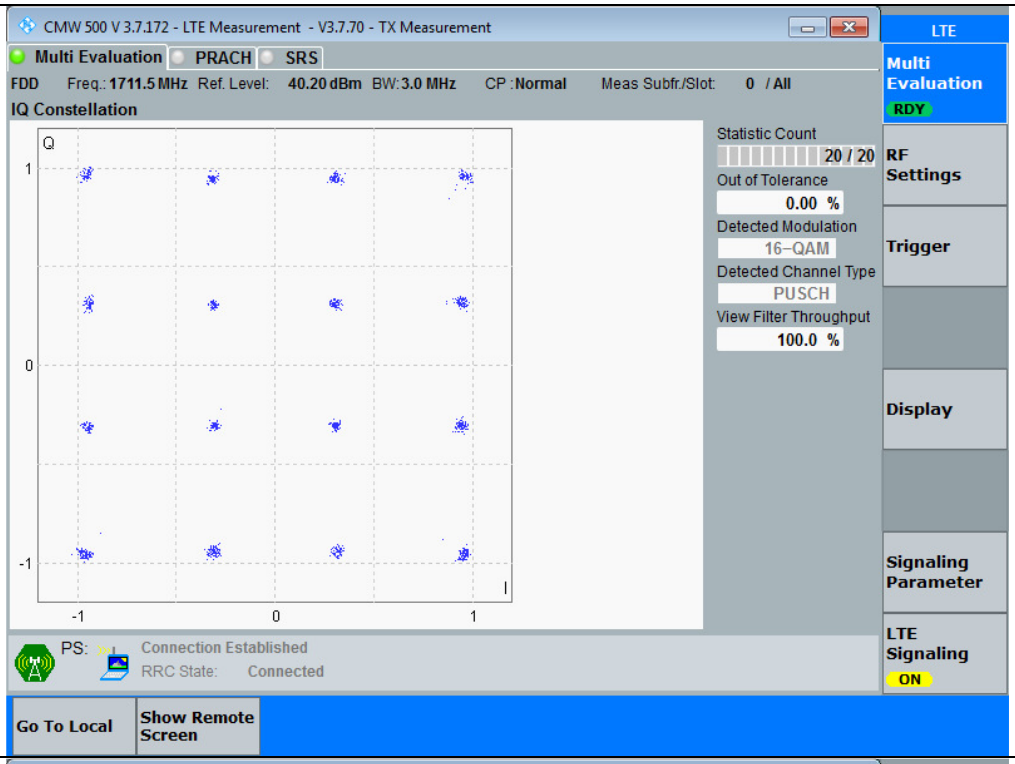

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1779.3 MHz Ref. Level: 39.20 dBm BW:1.4 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

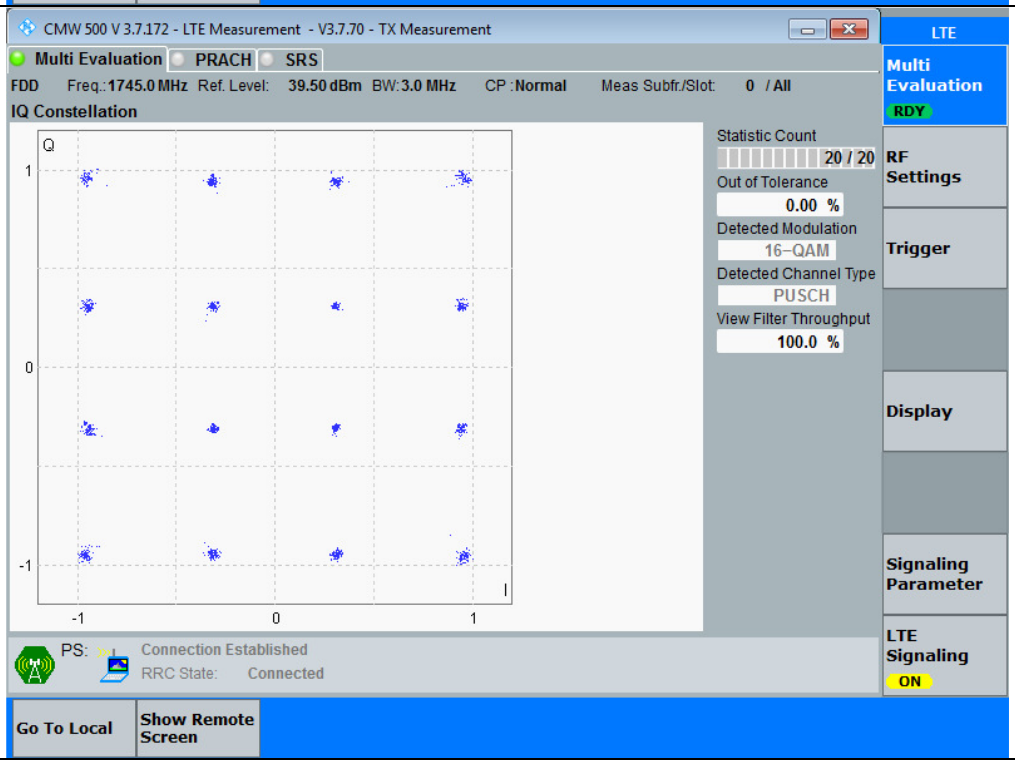

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1710.7 MHz Ref. Level: 39.60 dBm BW:1.4 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

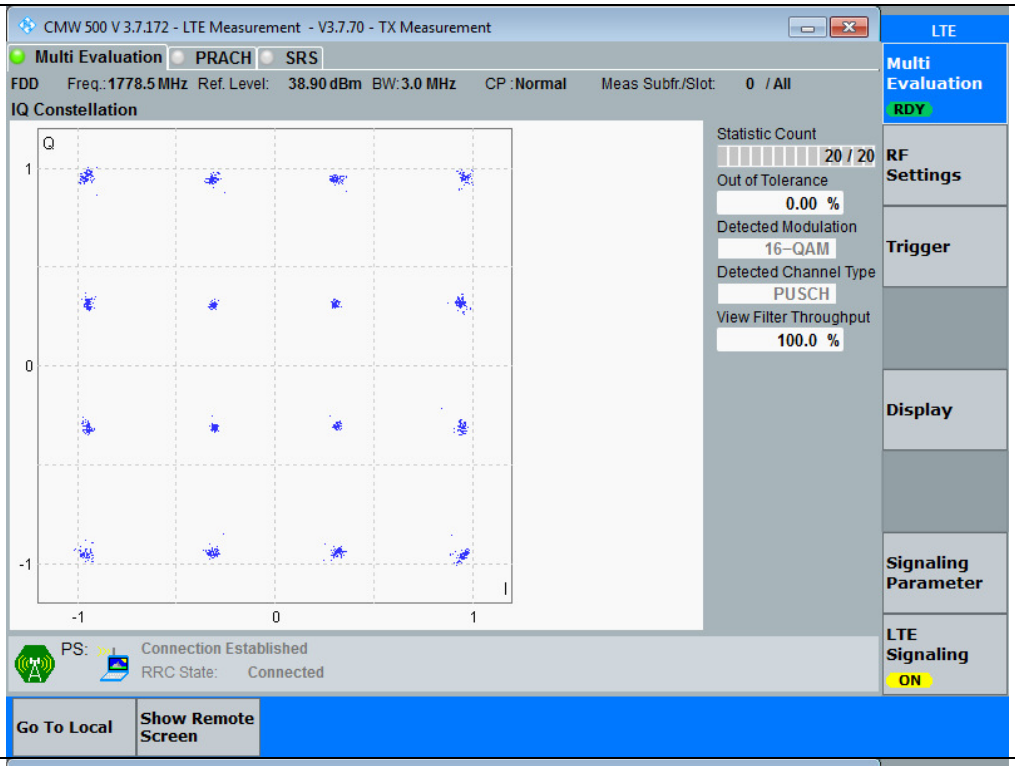

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.50 dBm BW:1.4 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

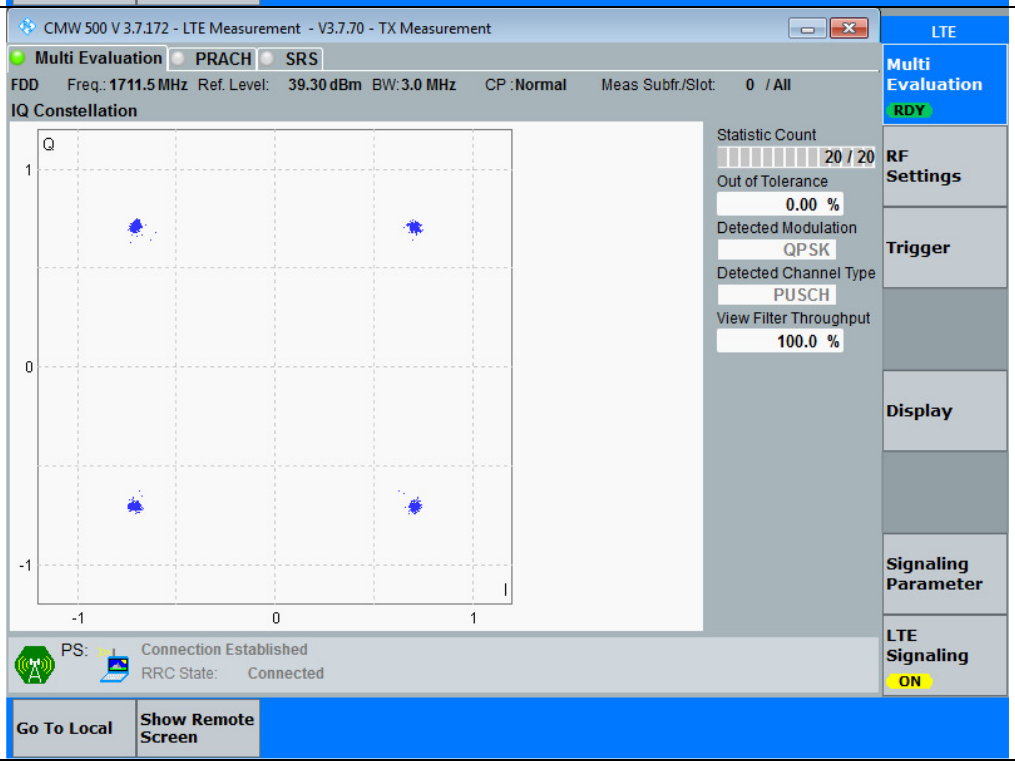

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1779.3 MHz Ref. Level: 39.90 dBm BW:1.4 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

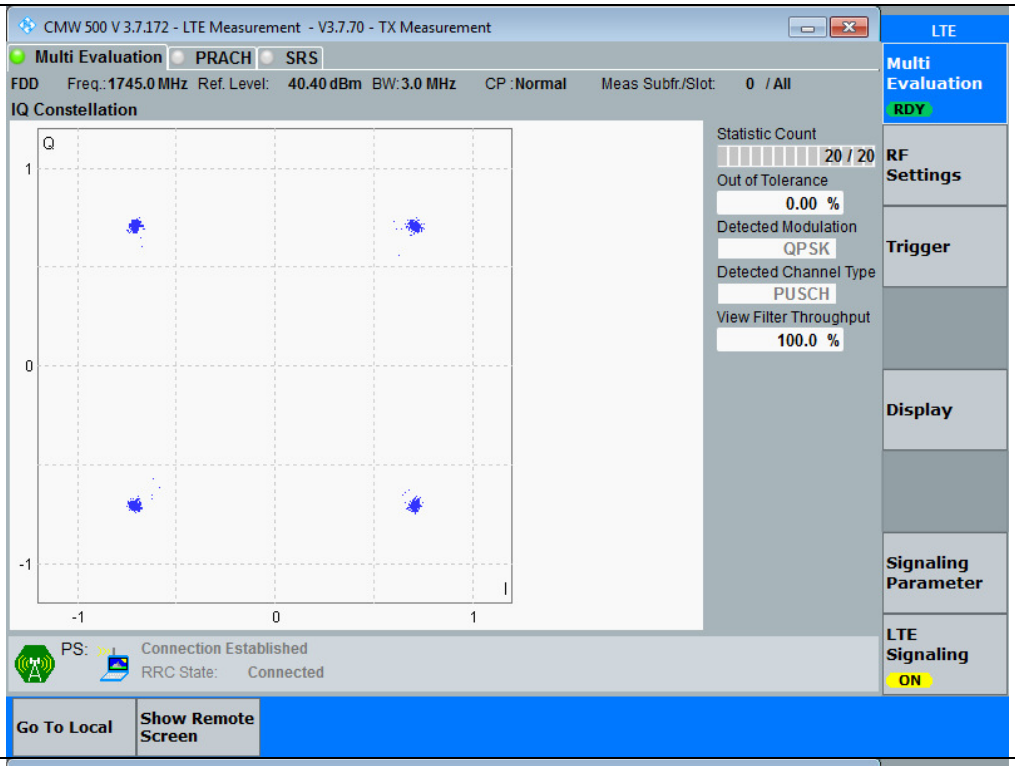
3.1 Test Graph

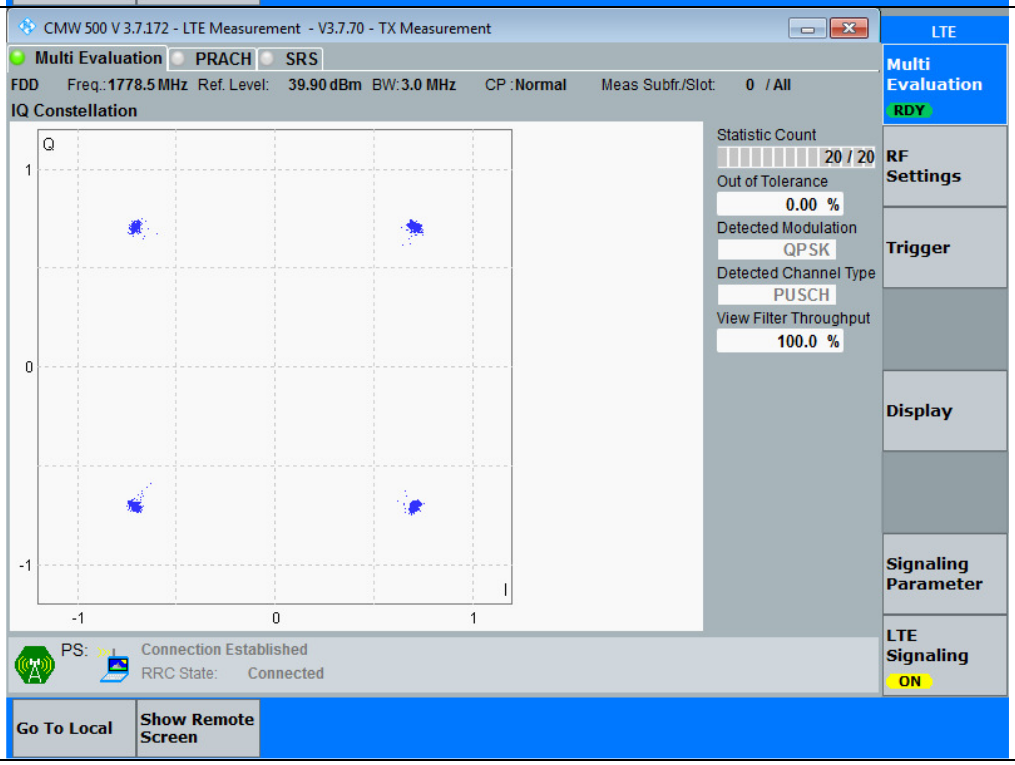




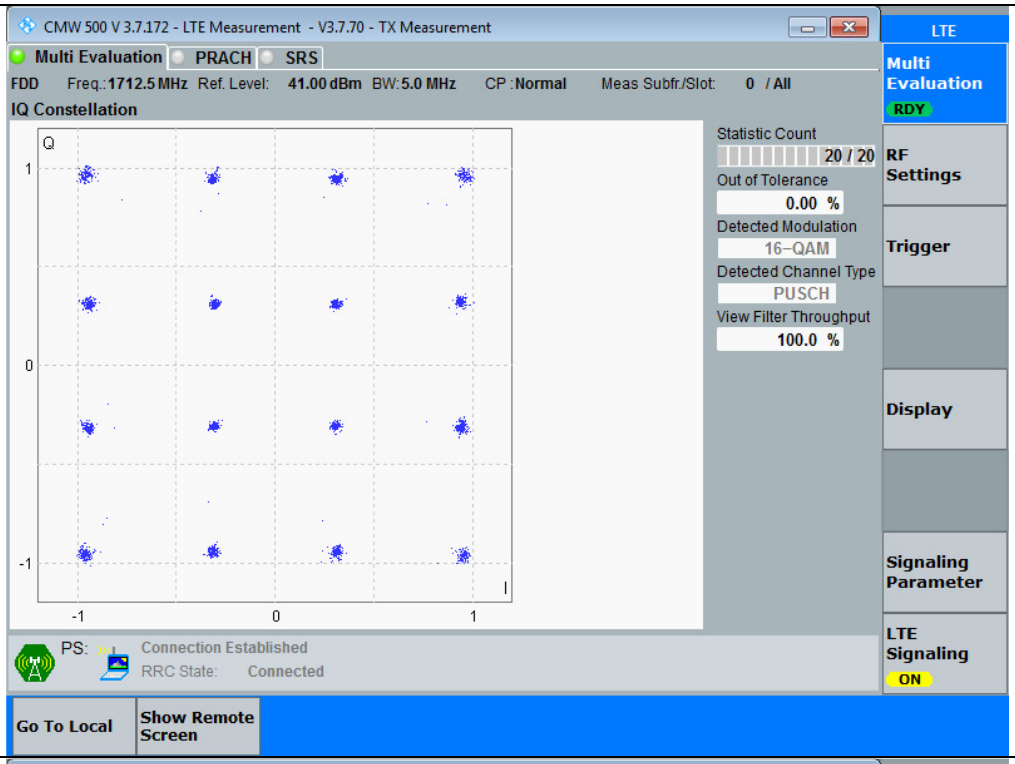

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1778.5 MHz Ref. Level: 38.90 dBm BW:3.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

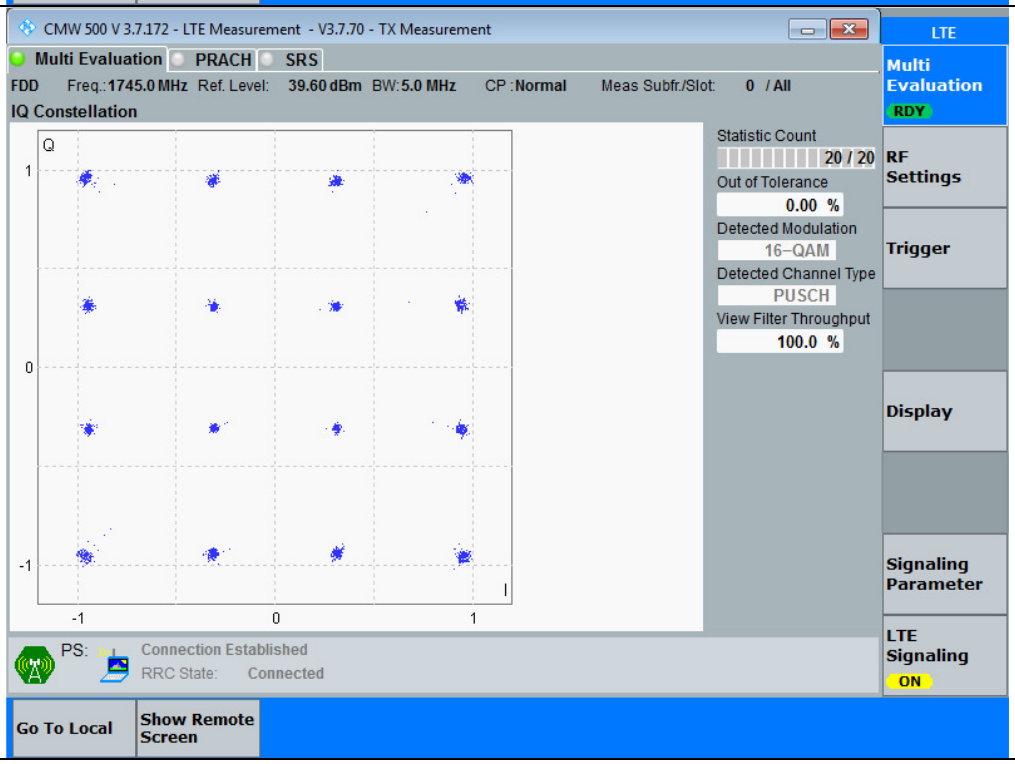

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1711.5 MHz Ref. Level: 39.30 dBm BW:3.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

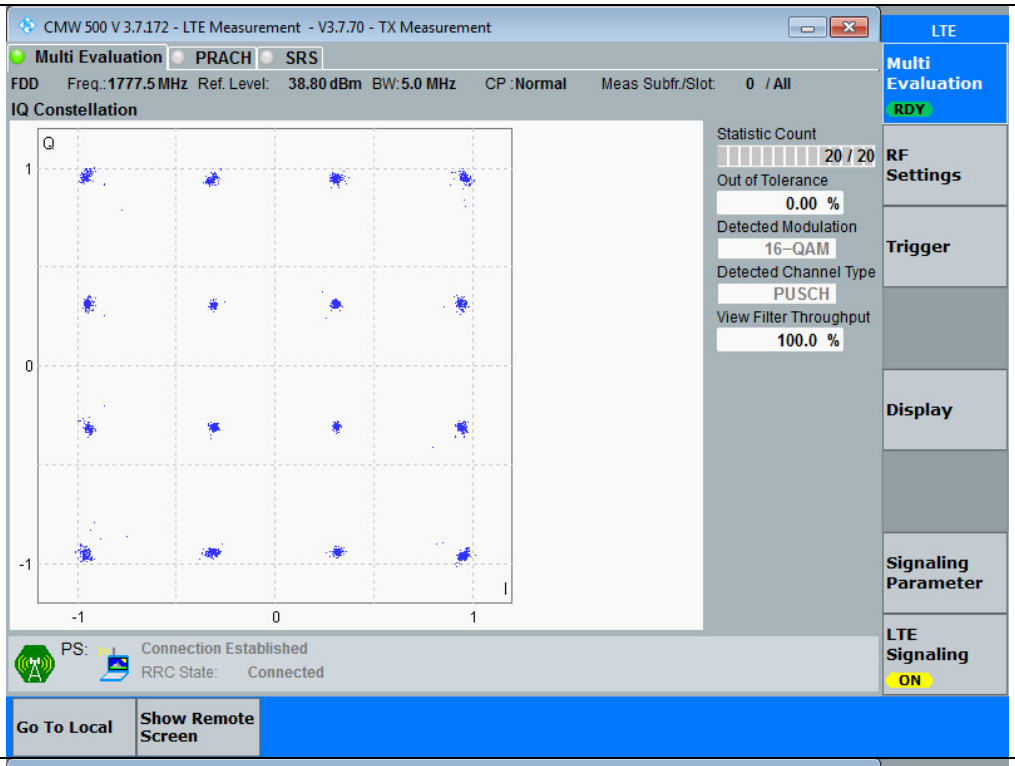

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.40 dBm BW:3.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

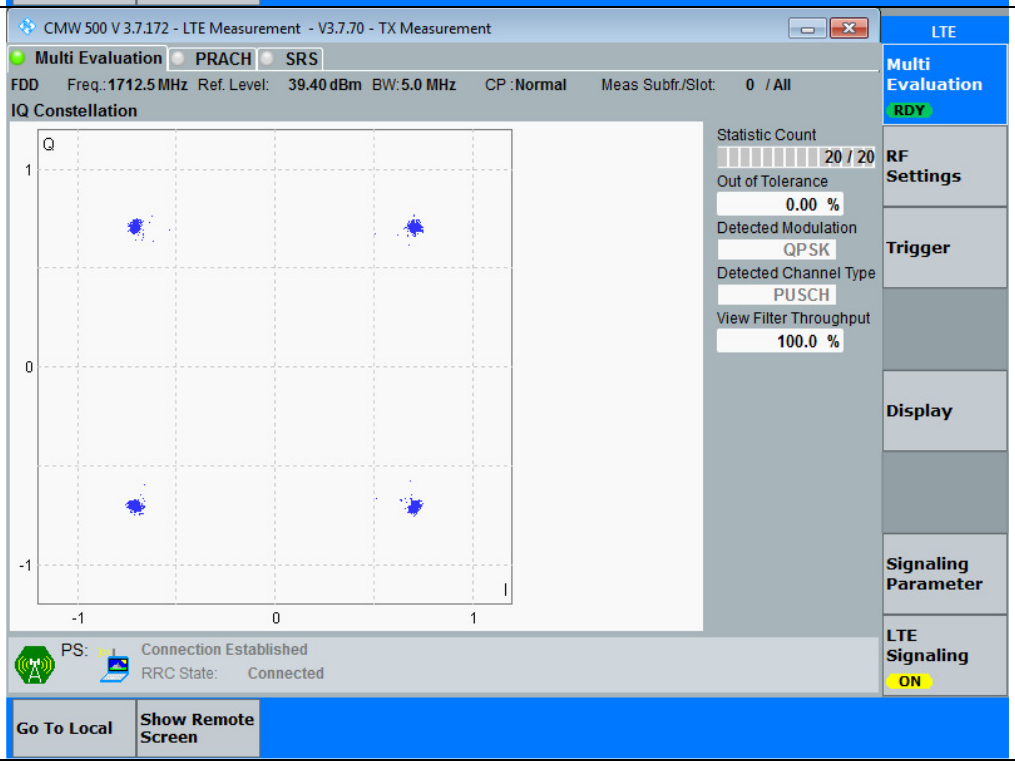

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1778.5 MHz Ref. Level: 39.90 dBm BW:3.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

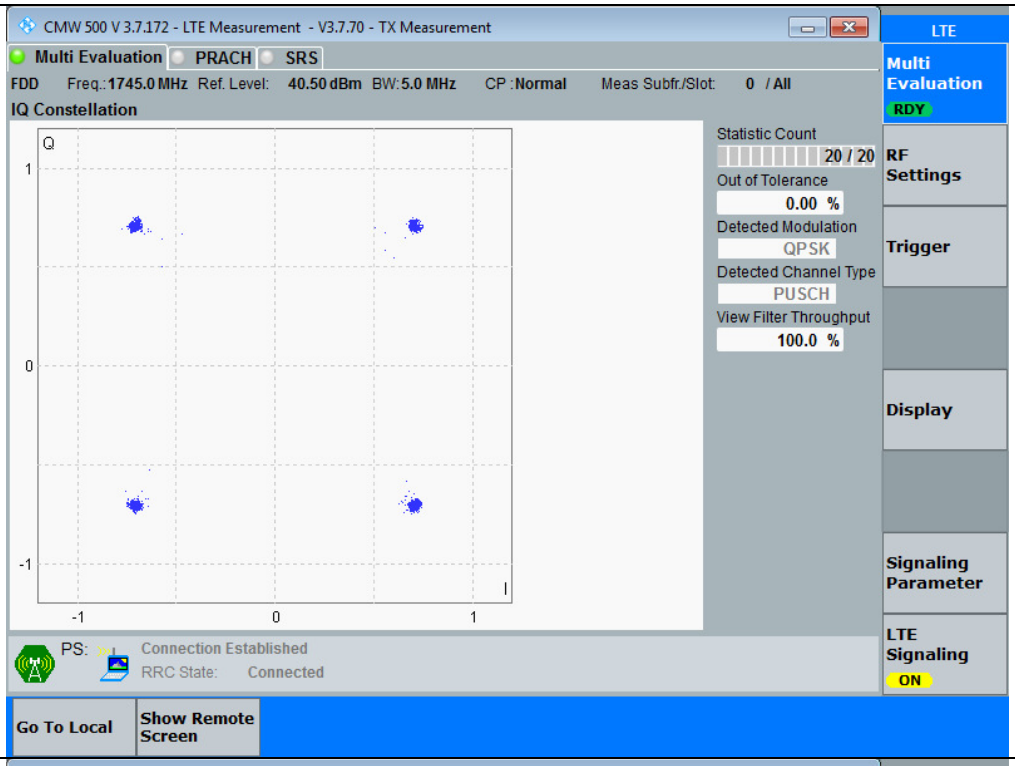
3.1 Test Graph

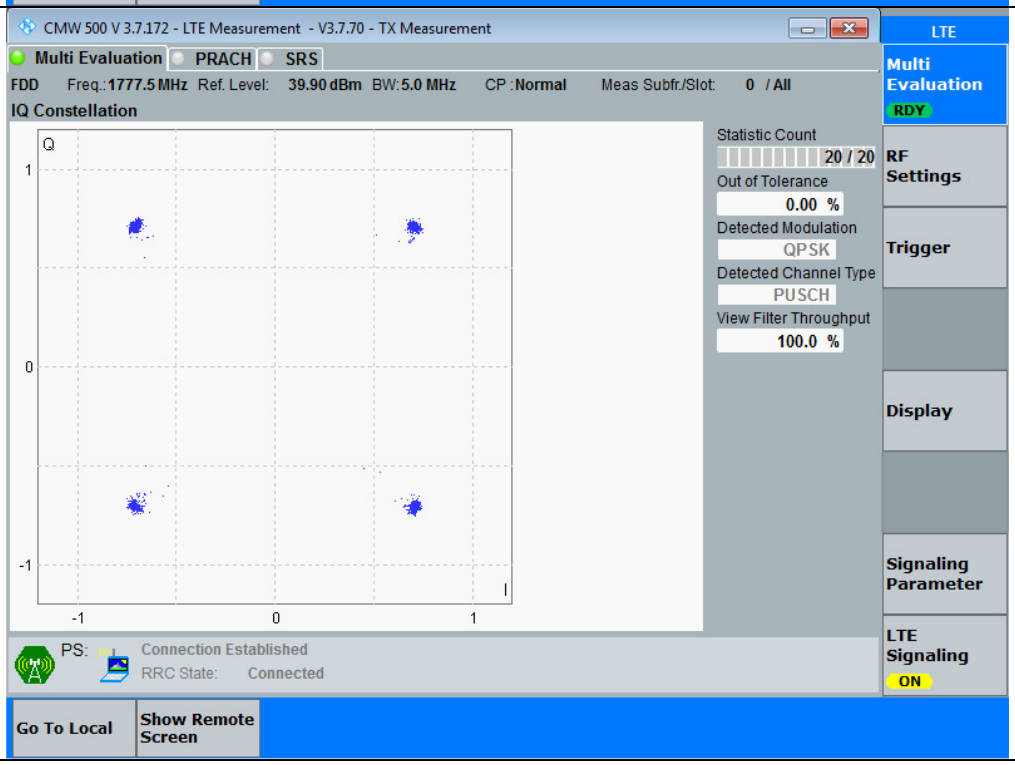




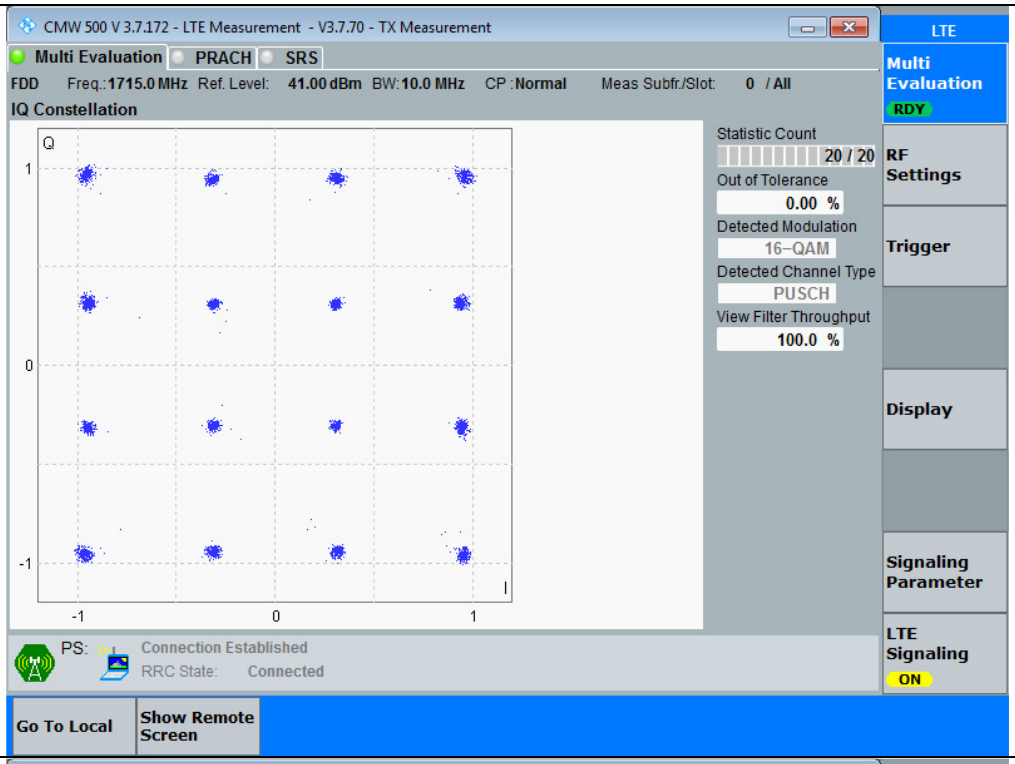

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1777.5 MHz Ref. Level: 38.80 dBm BW:5.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

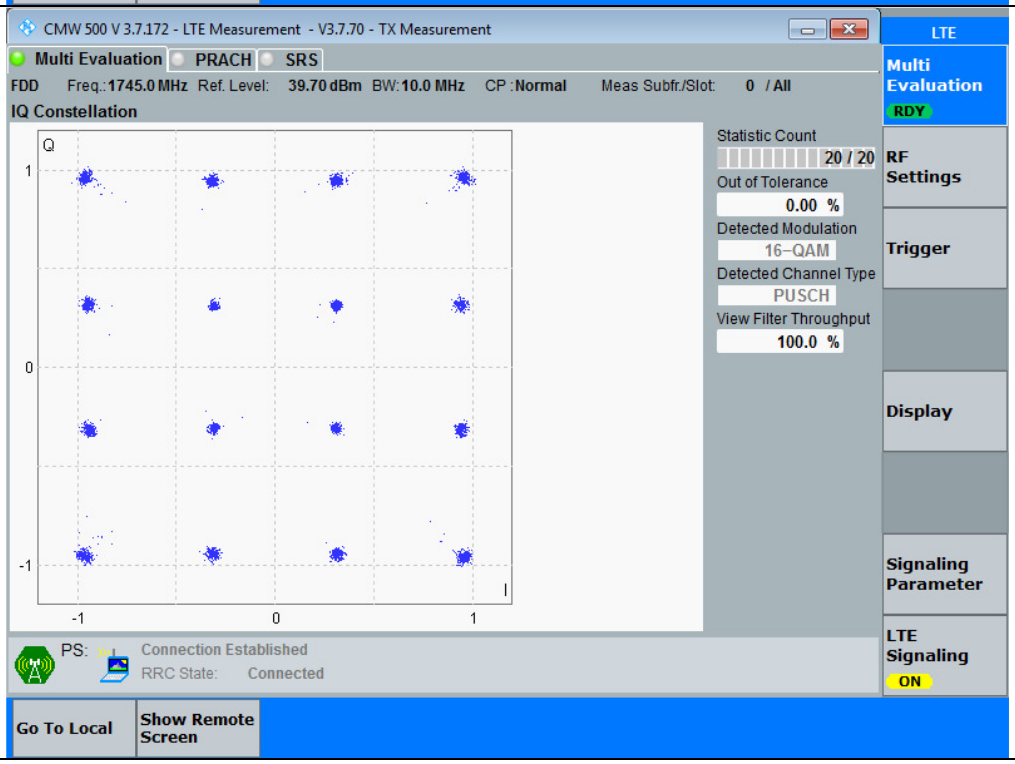

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1712.5 MHz Ref. Level: 39.40 dBm BW:5.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

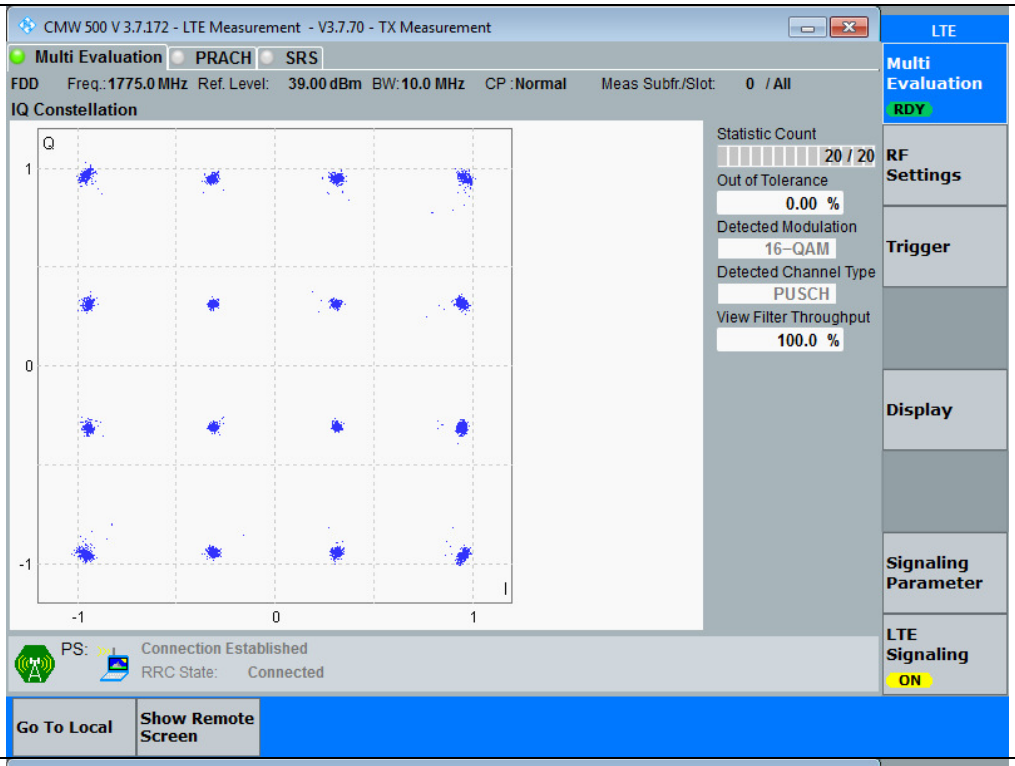

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.50 dBm BW:5.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

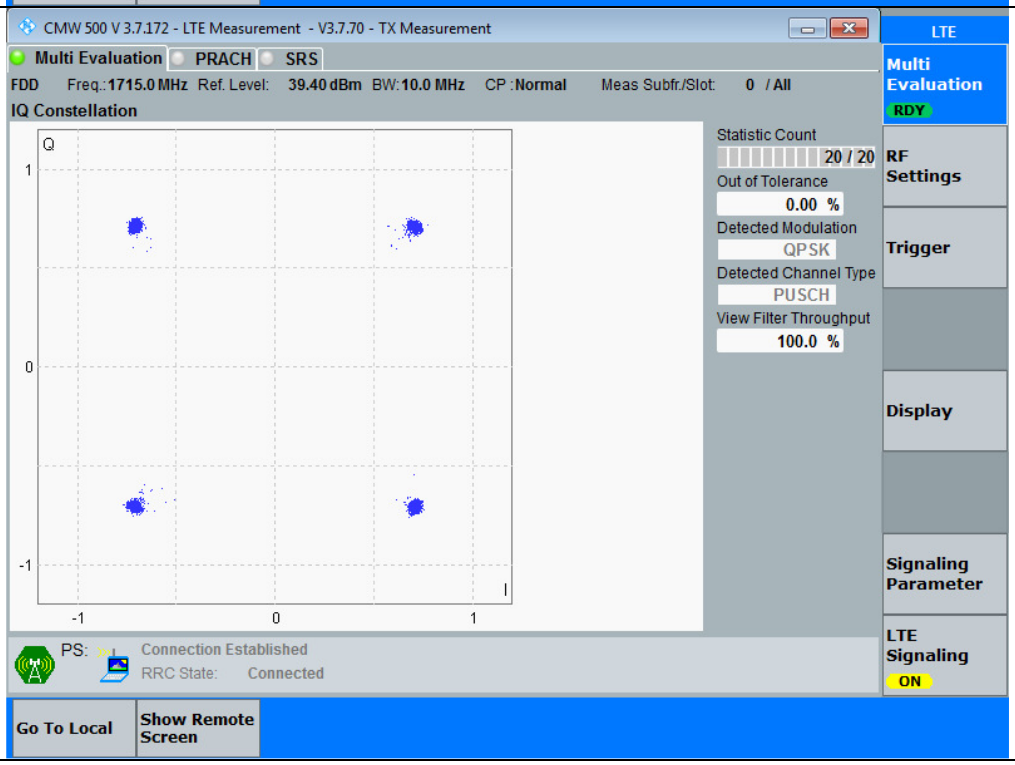

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1777.5 MHz Ref. Level: 39.90 dBm BW:5.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

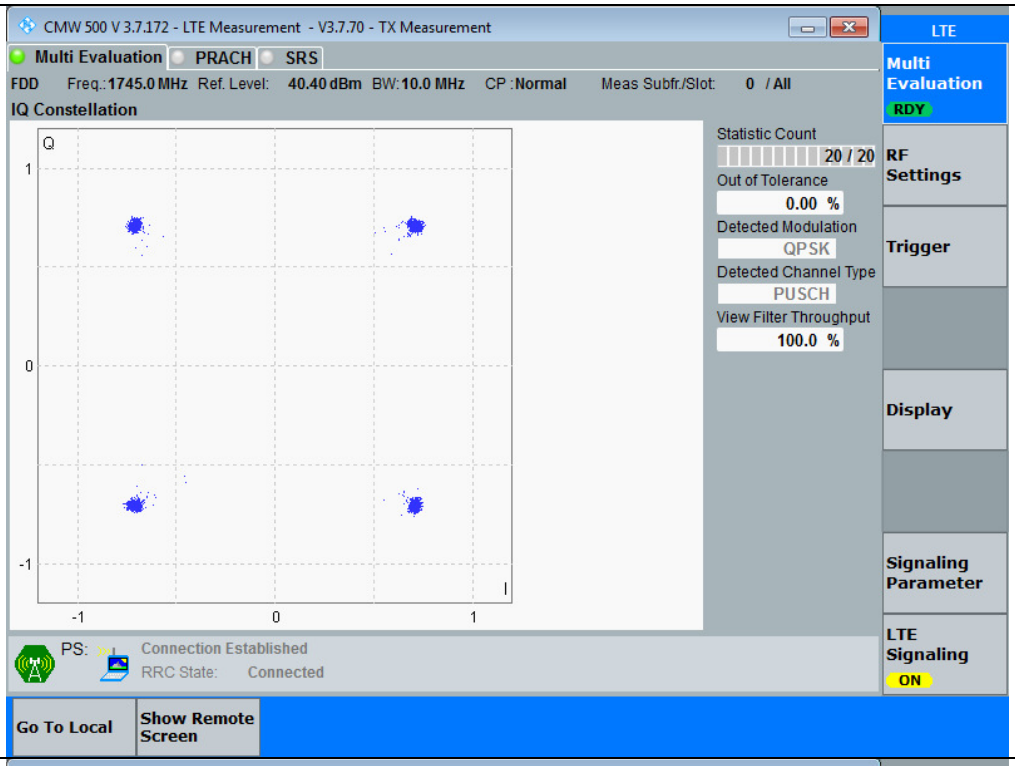
3.1 Test Graph

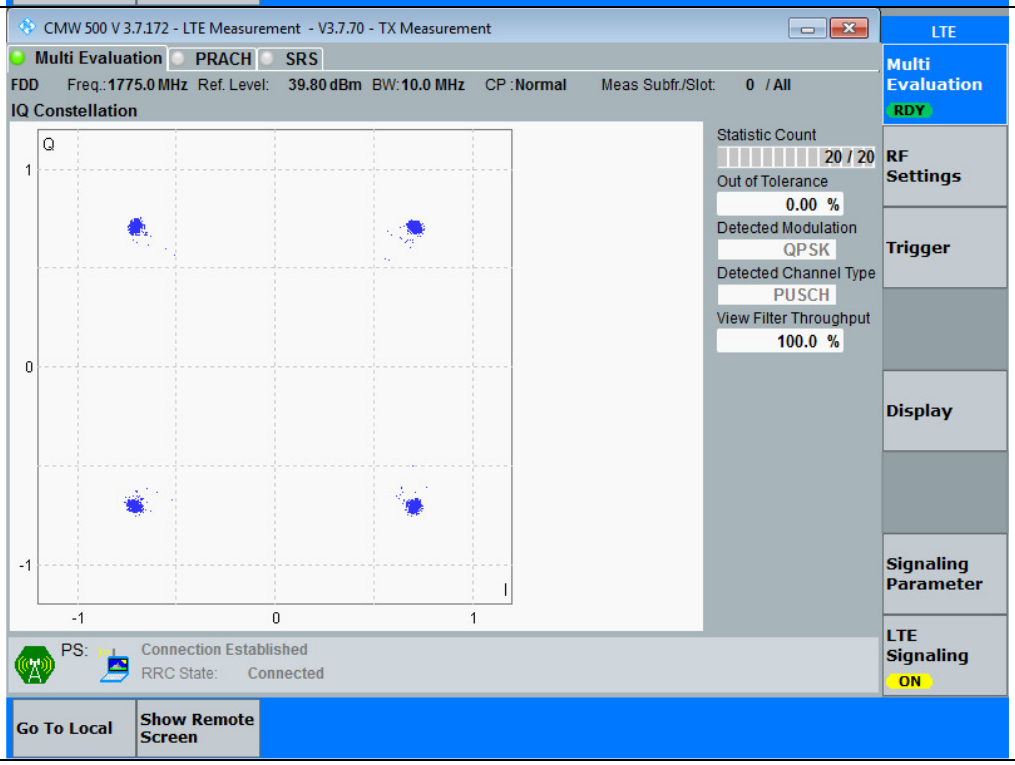




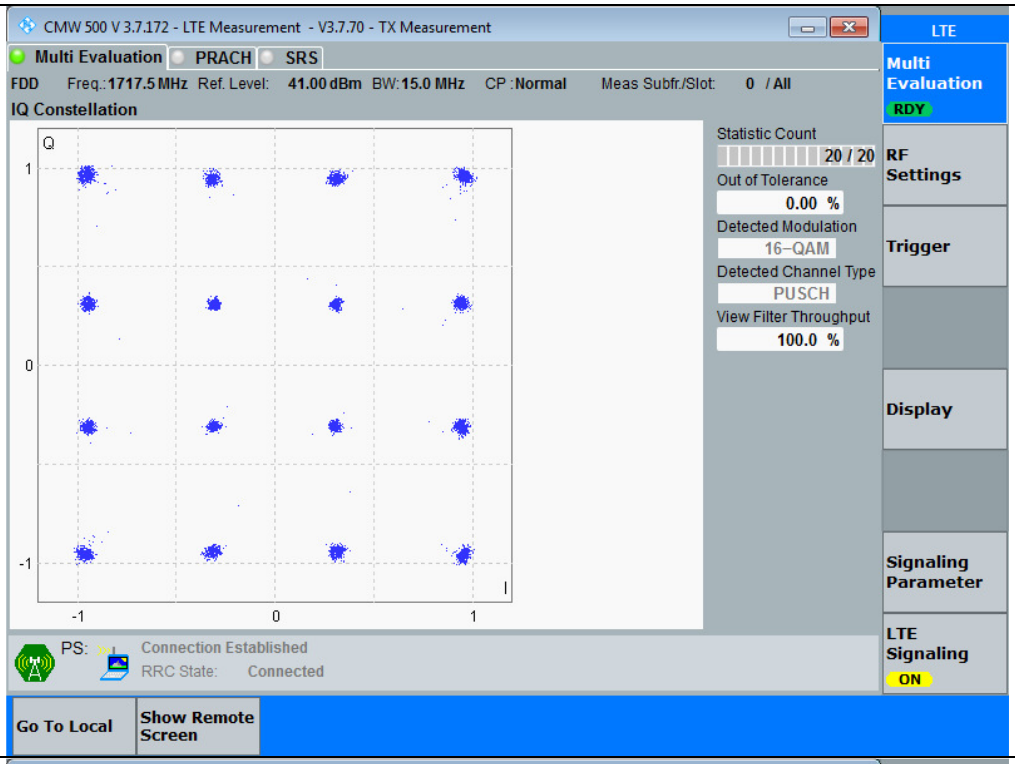

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1775.0 MHz Ref. Level: 39.00 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

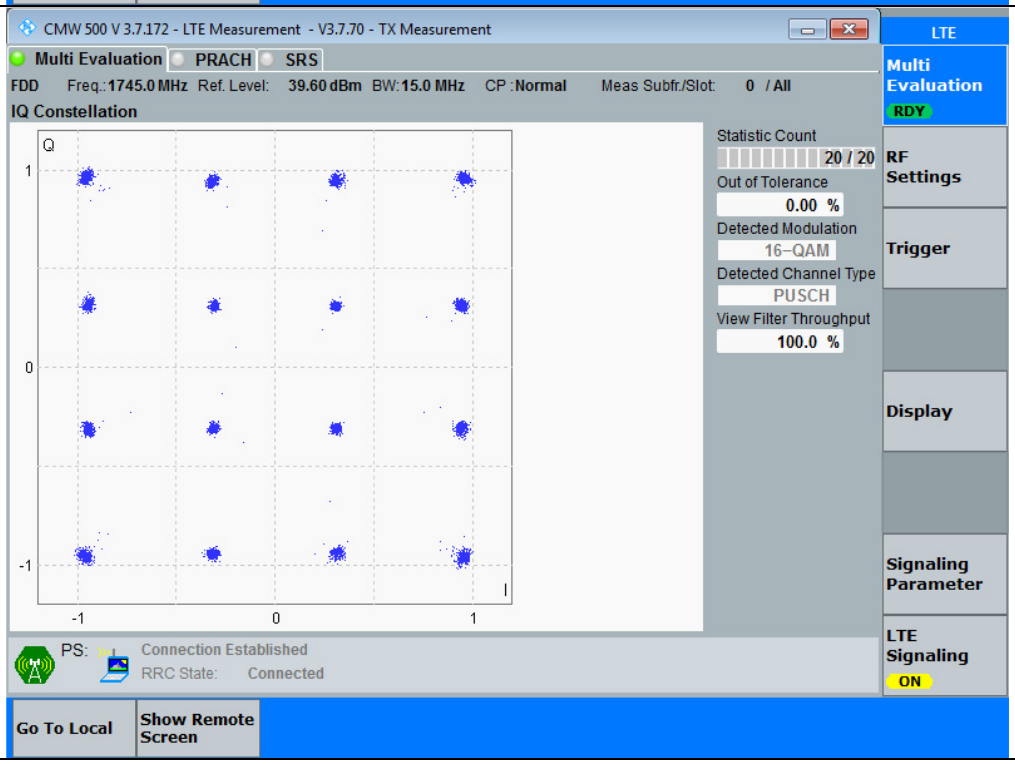

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1715.0 MHz Ref. Level: 39.40 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

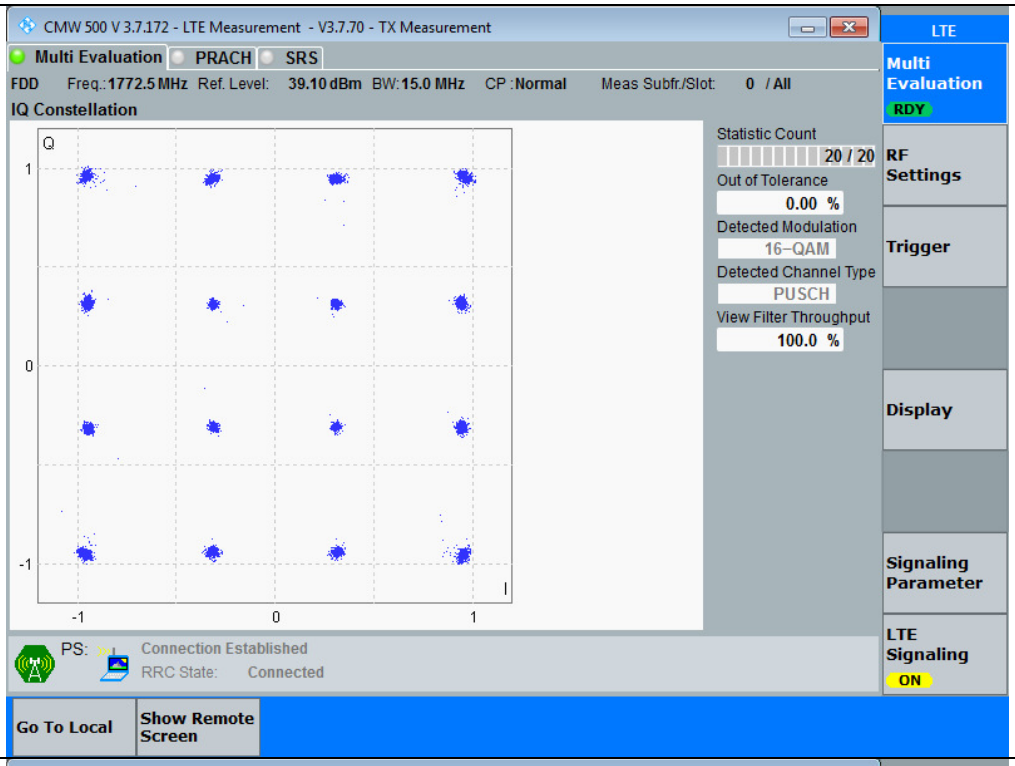

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.40 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

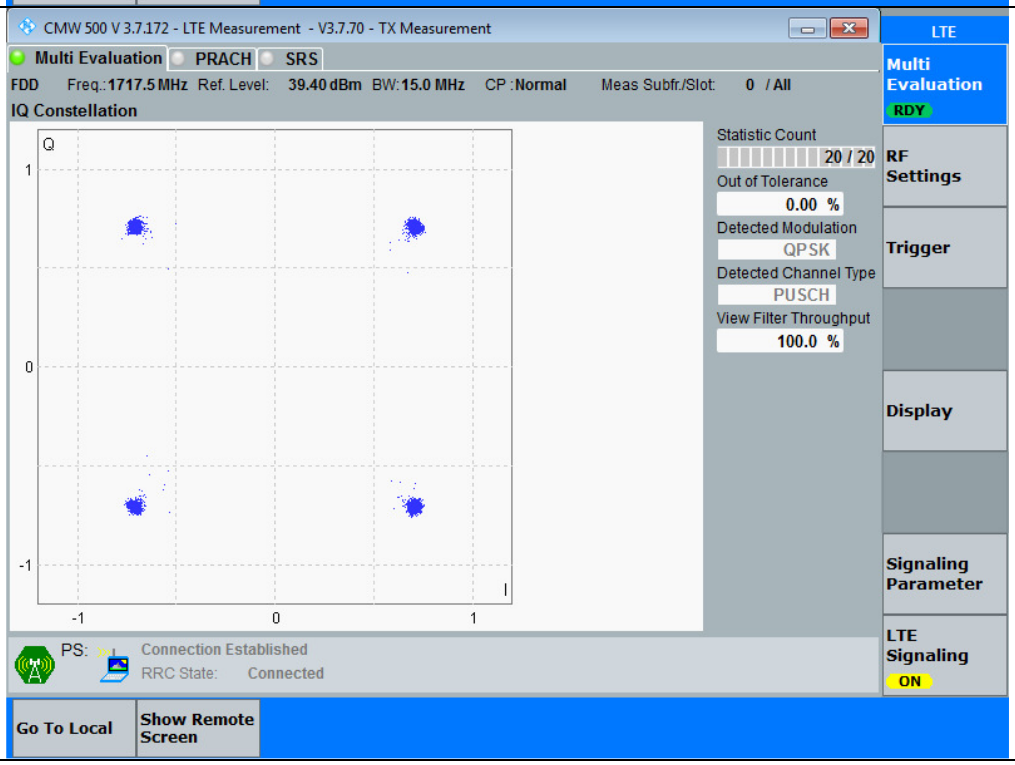

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1775.0 MHz Ref. Level: 39.80 dBm BW:10.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

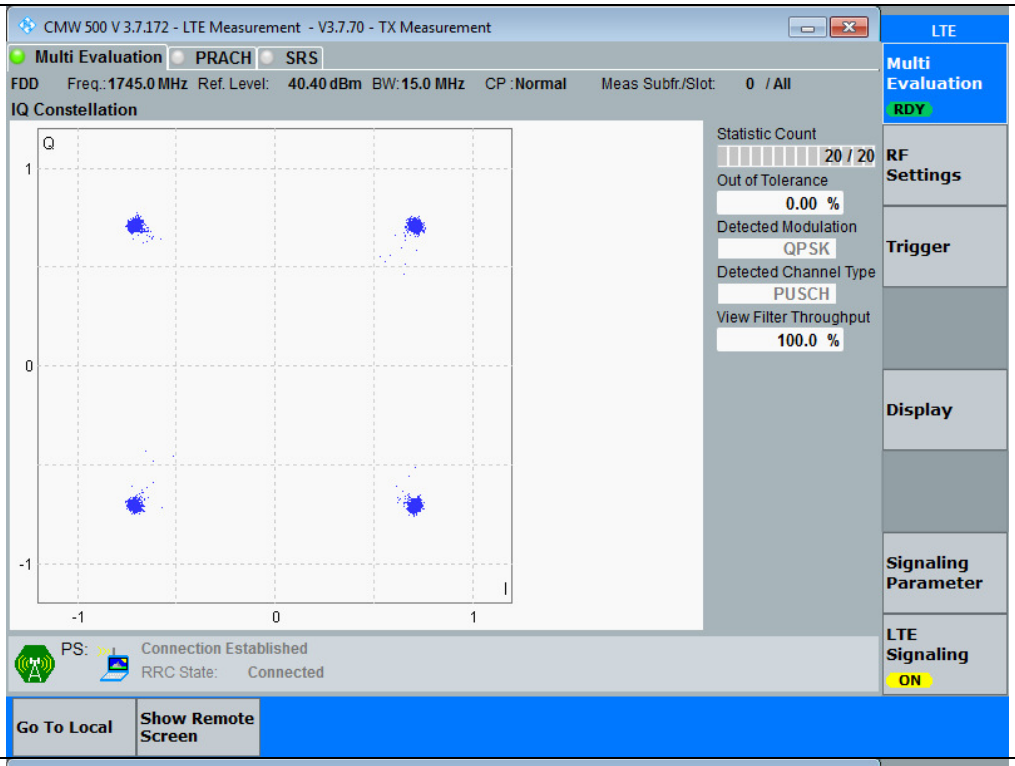
3.1 Test Graph

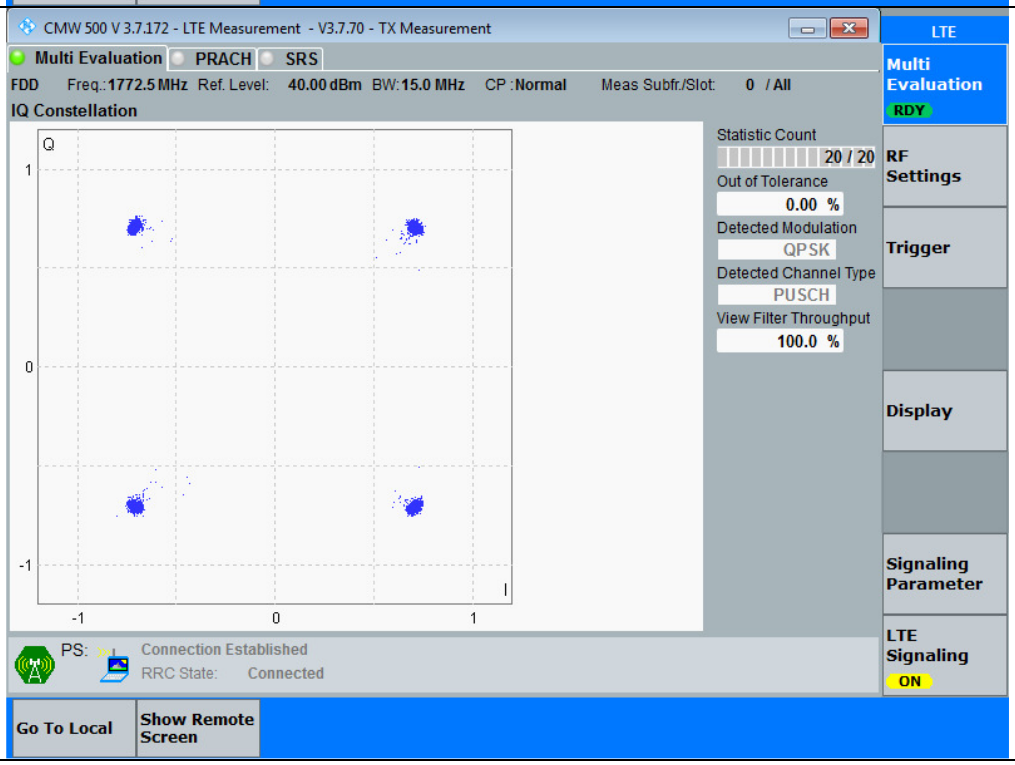




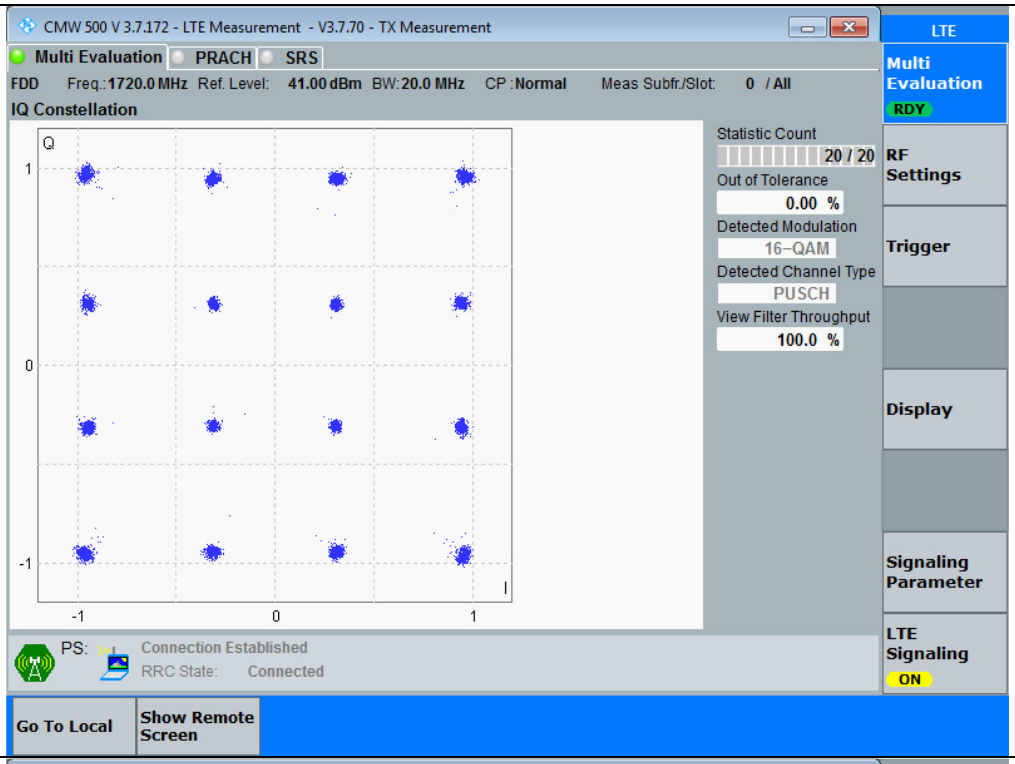

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1772.5 MHz Ref. Level: 39.10 dBm BW:15.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

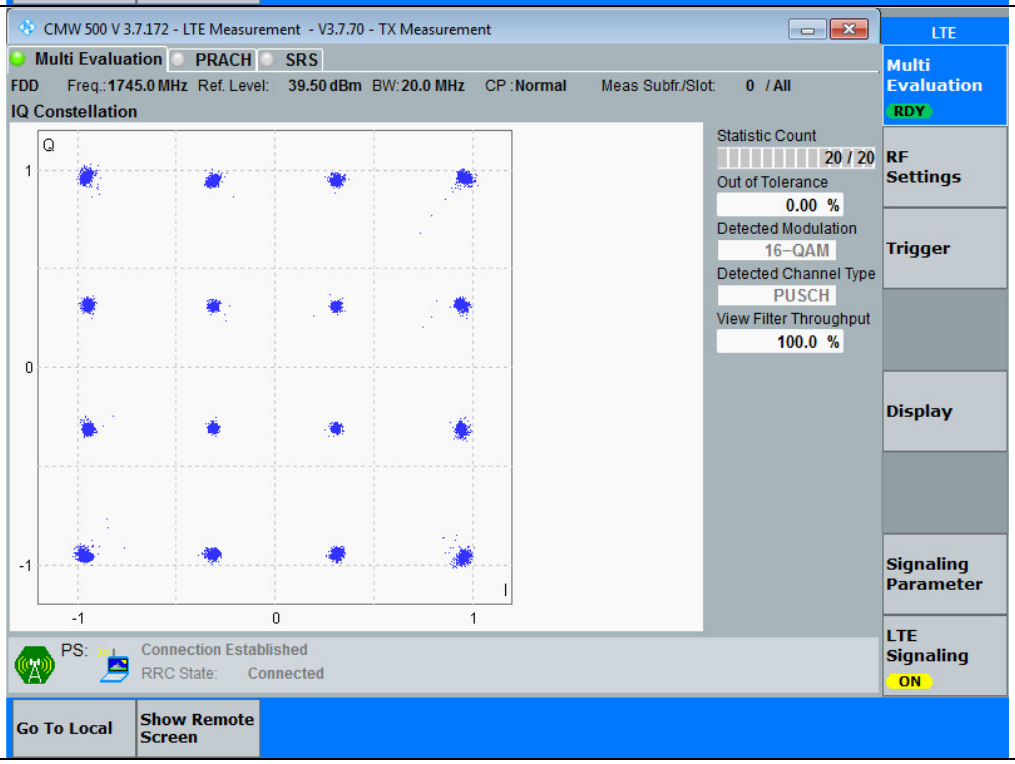

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1717.5 MHz Ref. Level: 39.40 dBm BW:15.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

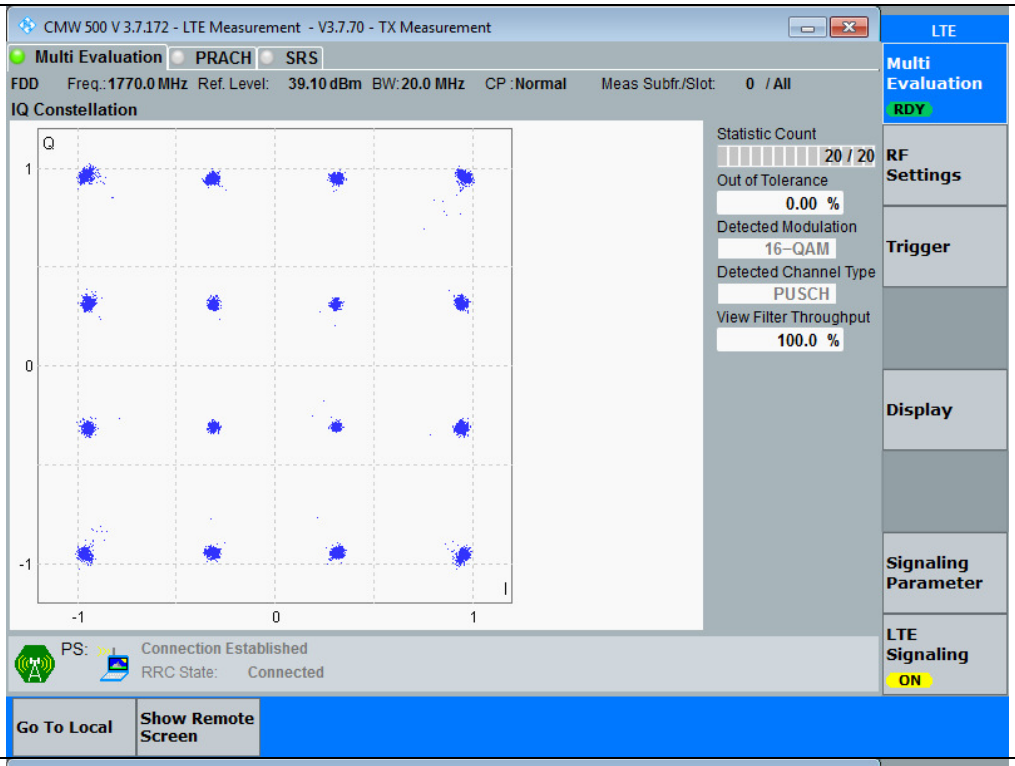

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.40 dBm BW:15.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

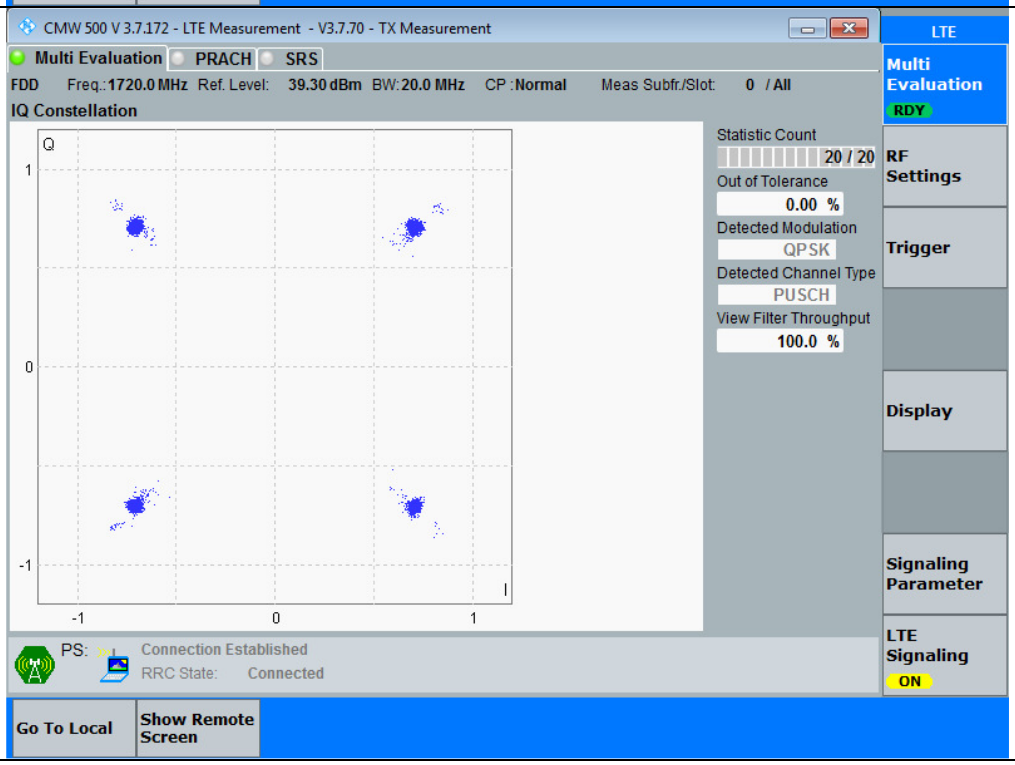

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1772.5 MHz Ref. Level: 40.00 dBm BW:15.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

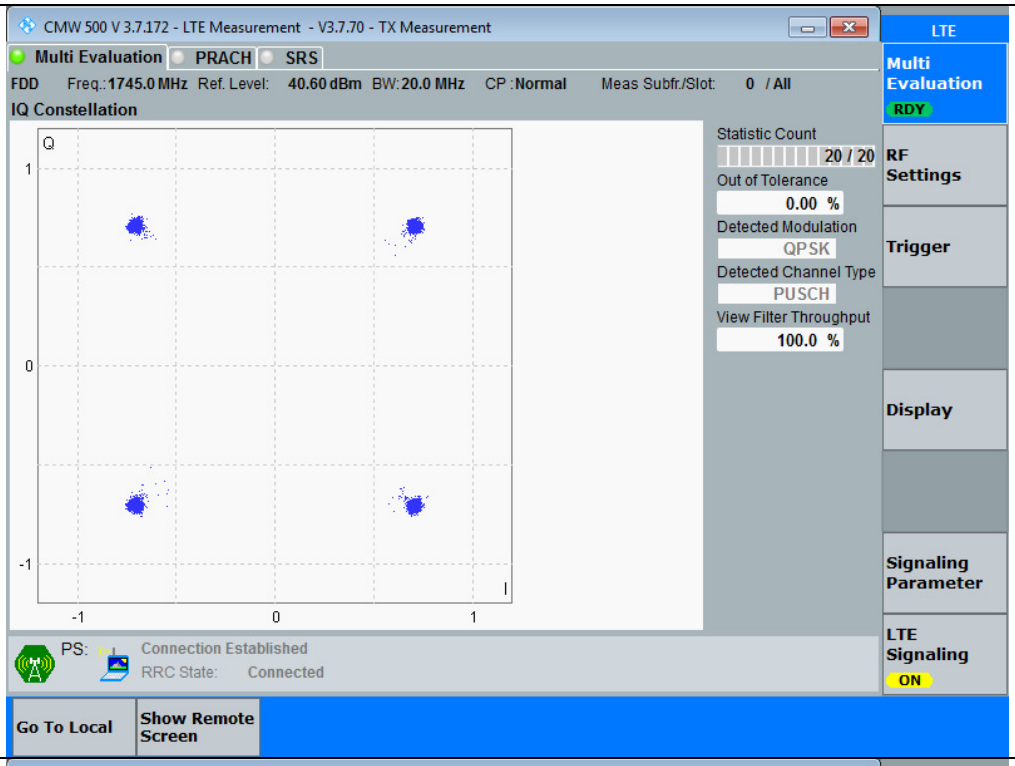
3.1 Test Graph

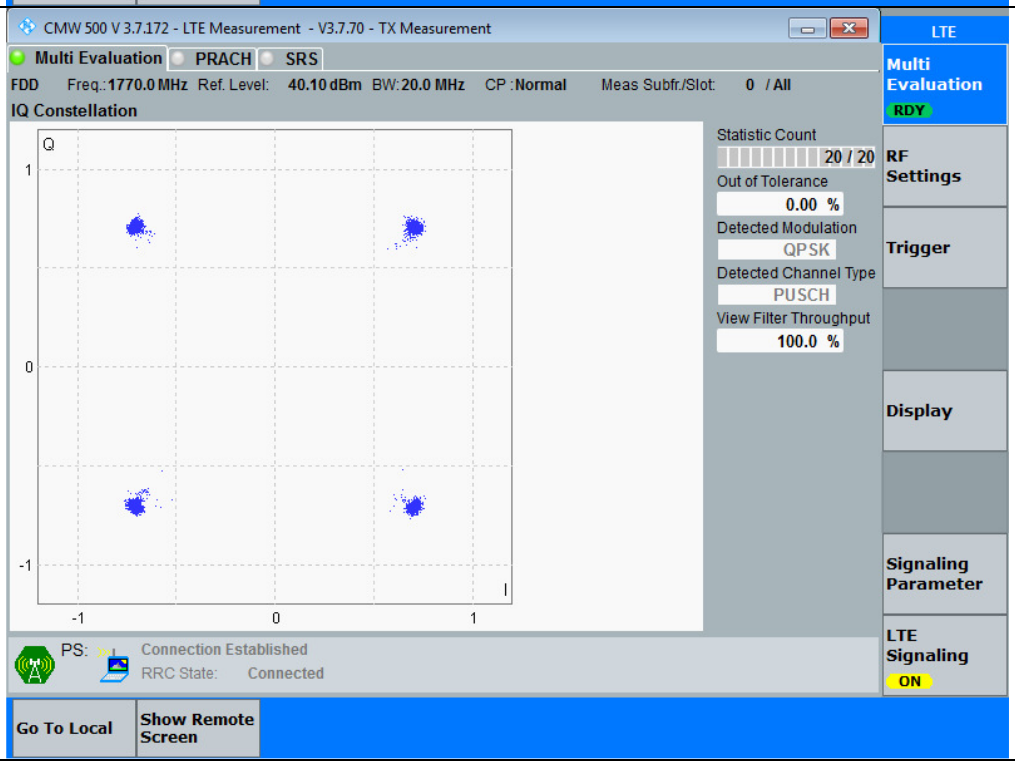





CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1770.0 MHz Ref. Level: 39.10 dBm BW:20.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1720.0 MHz Ref. Level: 39.30 dBm BW:20.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1745.0 MHz Ref. Level: 40.60 dBm BW:20.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

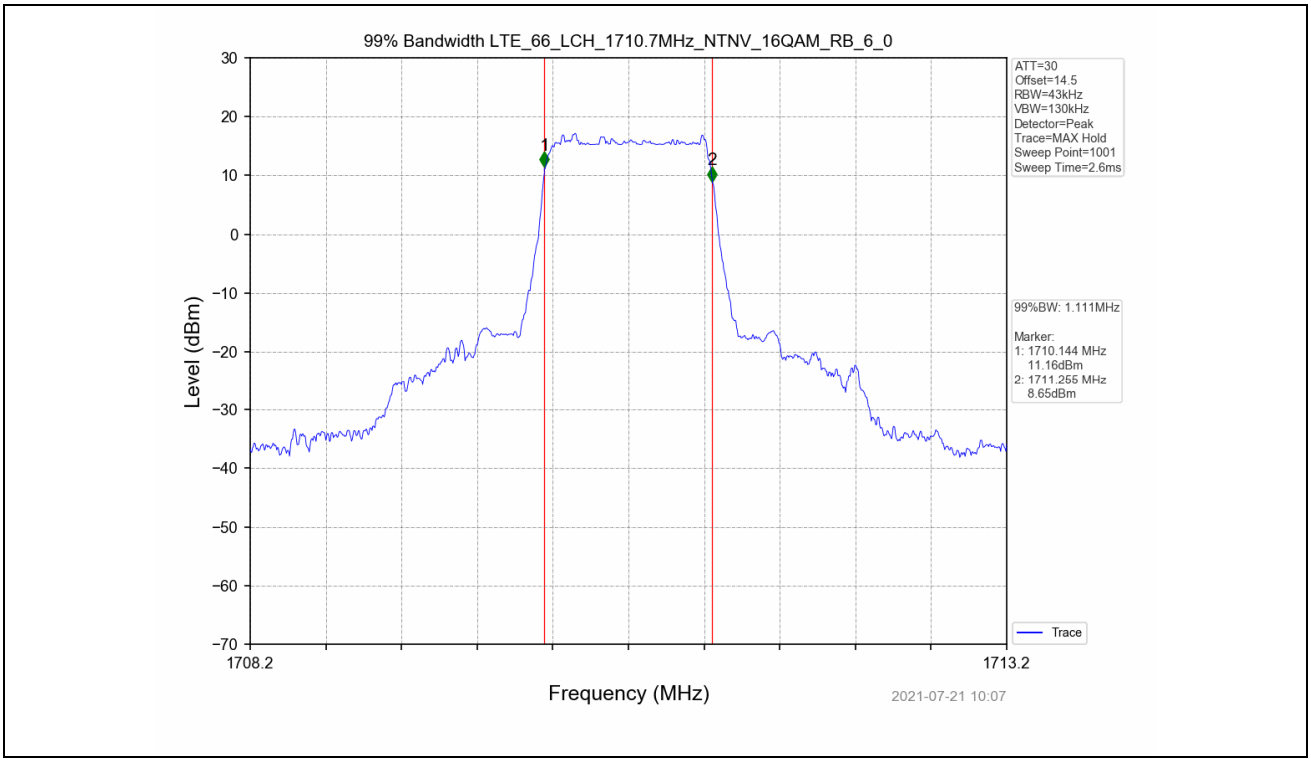

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq.:1770.0 MHz Ref. Level: 40.10 dBm BW:20.0 MHz CP :Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

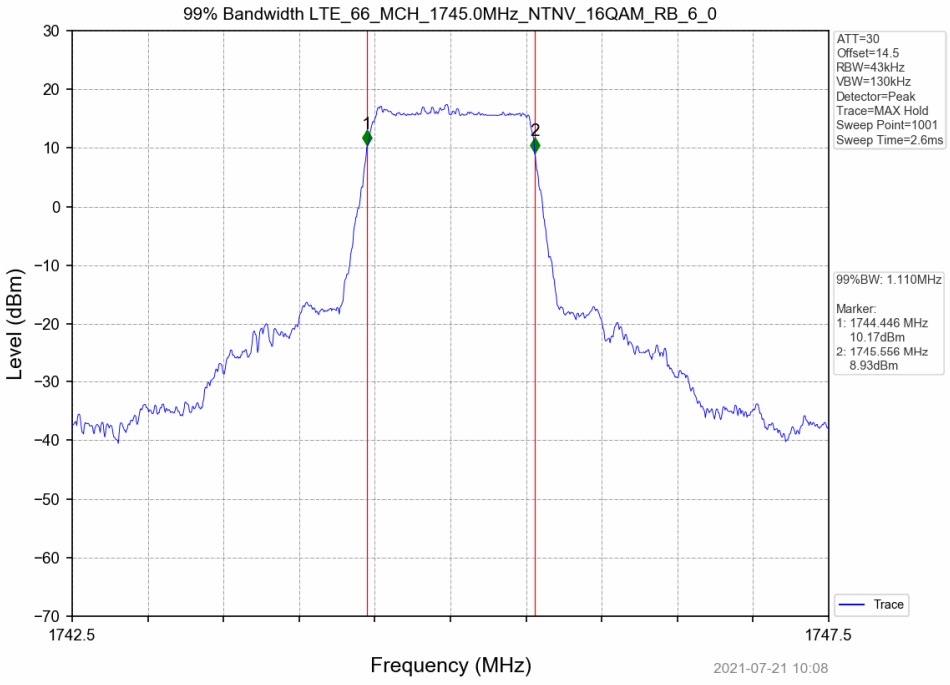
4. 99% & 26dB Bandwidth

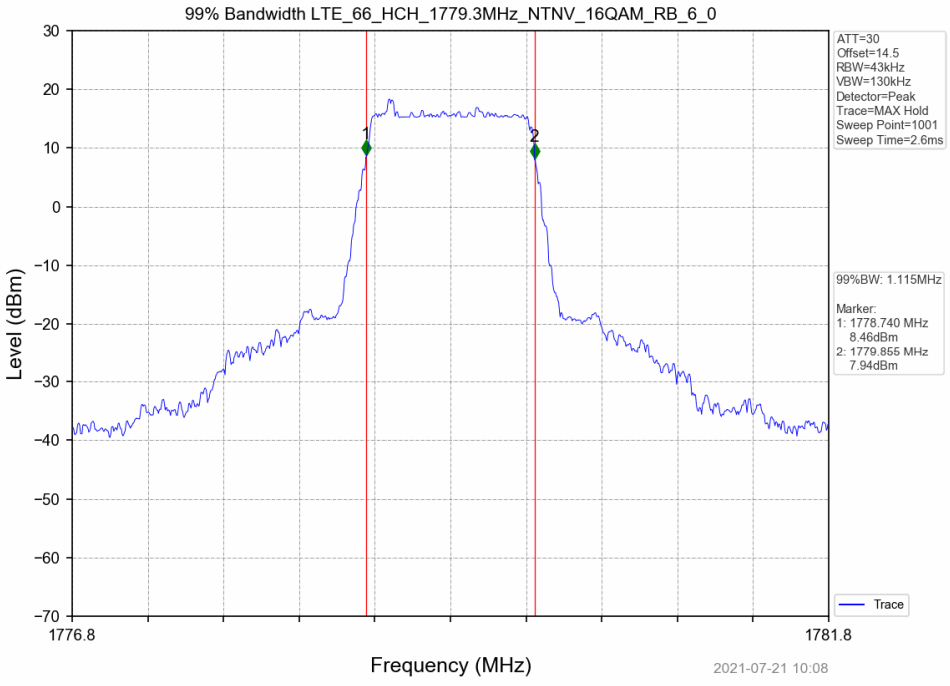
4.1 Test Result

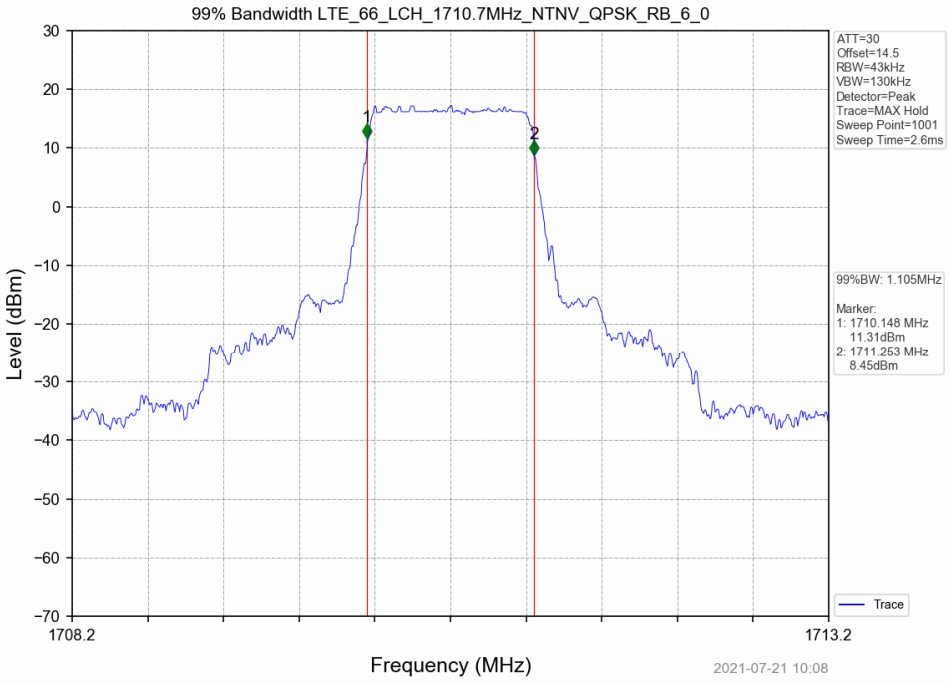
Test Band: 66 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.105	1.112	1.106	N/A	PASS
16QAM	6	0	1.111	1.110	1.115	N/A	PASS

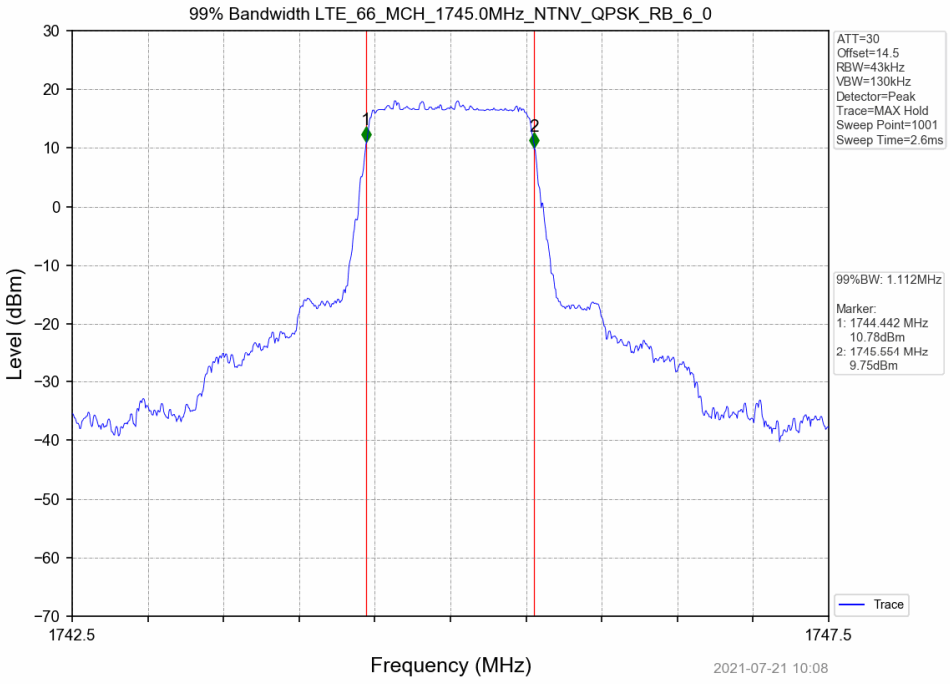
4.2 Test Graph

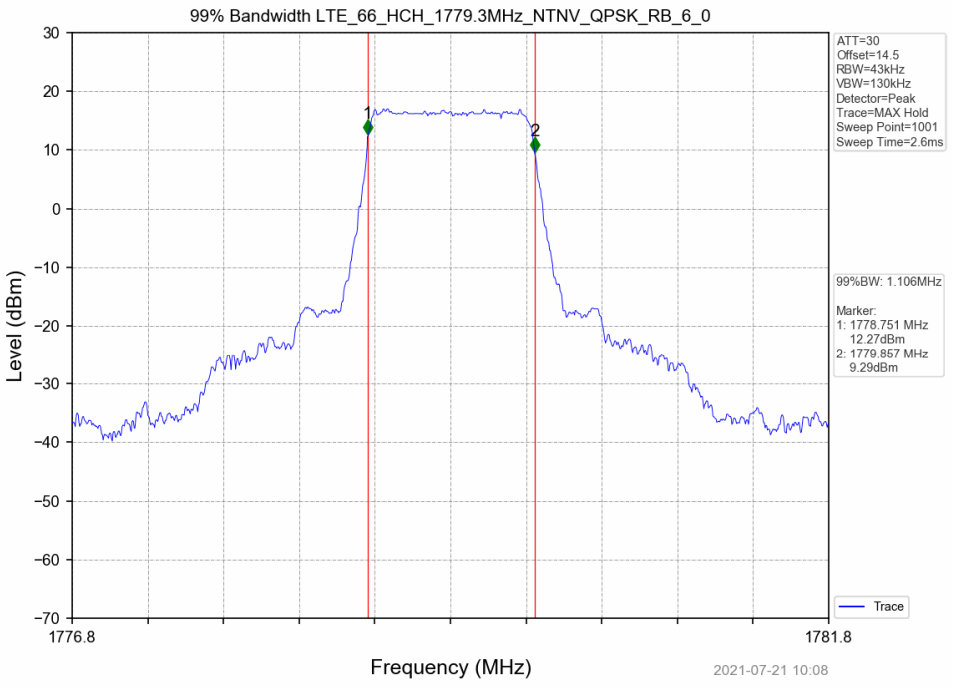



99% Bandwidth LTE_66_MCH_1745.0MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.110MHz
Marker:
1: 1744.446 MHz
10.17dBm
2: 1745.556 MHz
8.93dBm
Trace
Level (dBm)
Frequency (MHz)
1742.5
1747.5
2021-07-21 10:08


99% Bandwidth LTE_66_HCH_1779.3MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.115MHz
Marker:
1: 1778.740 MHz
8.46dBm
2: 1779.855 MHz
7.94dBm
Trace
Level (dBm)
Frequency (MHz)
1776.8
1781.8
2021-07-21 10:08

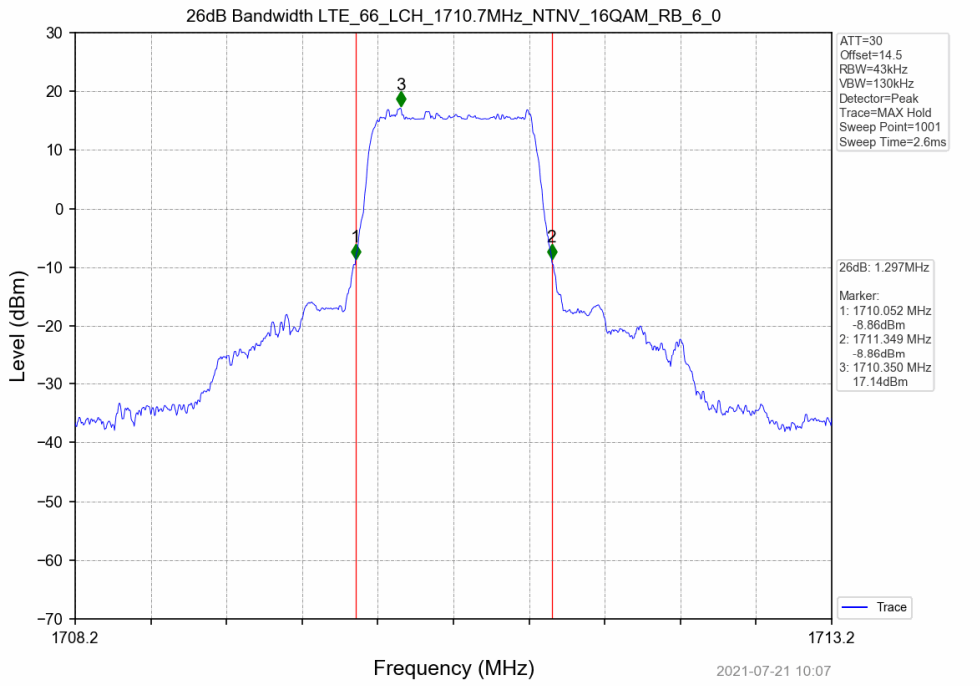

99% Bandwidth LTE_66_LCH_1710.7MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.105MHz
Marker:
1: 1710.148 MHz
11.31dBm
2: 1711.253 MHz
8.45dBm
Trace
Level (dBm)
Frequency (MHz)
1708.2
1713.2
2021-07-21 10:08

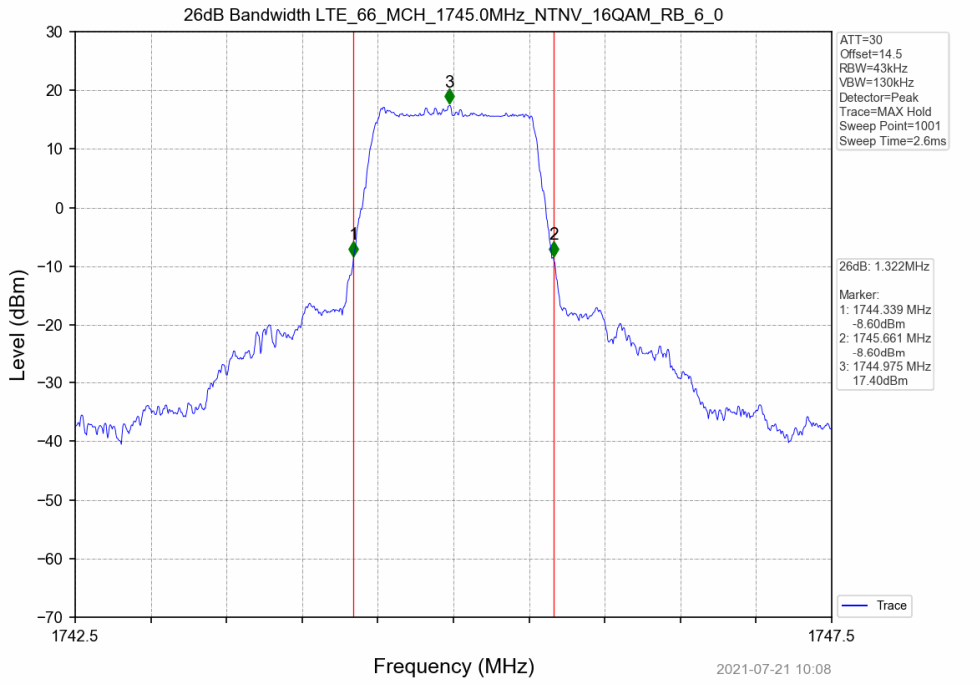

99% Bandwidth LTE_66_MCH_1745.0MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.112MHz
Marker:
1: 1744.442 MHz
10.78dBm
2: 1745.554 MHz
9.75dBm
Trace
Level (dBm)
Frequency (MHz)
1742.5
1747.5
2021-07-21 10:08

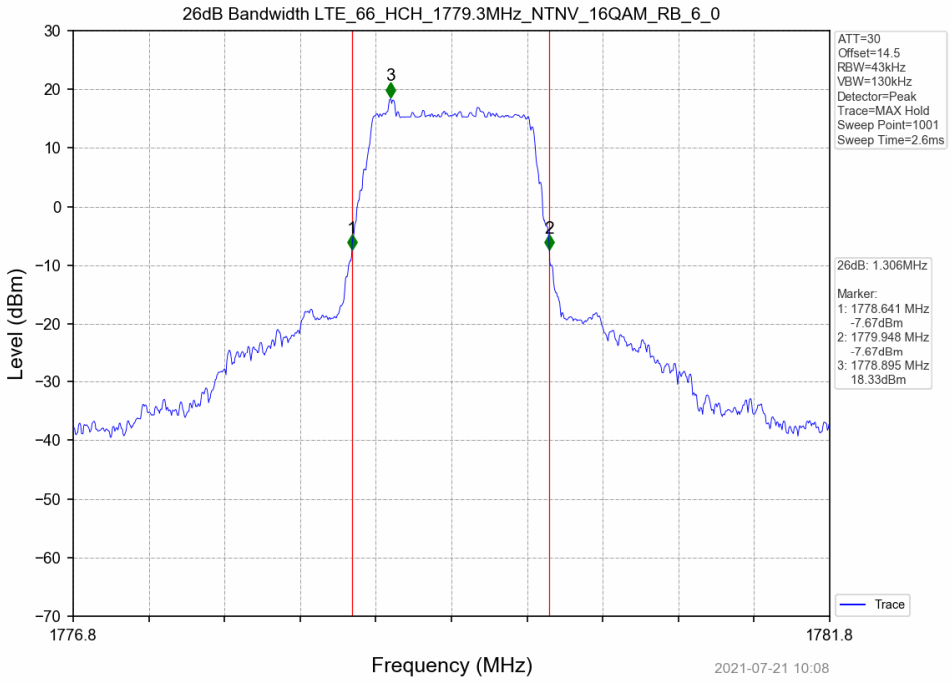


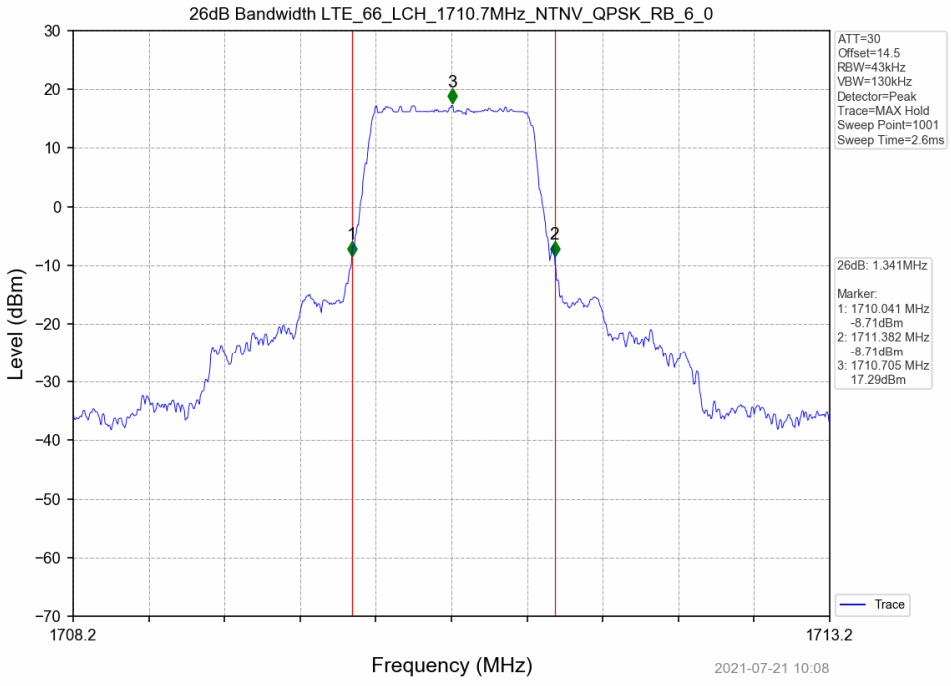
Test Band: 66 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.341	1.307	1.328	N/A	PASS
16QAM	6	0	1.297	1.322	1.306	N/A	PASS

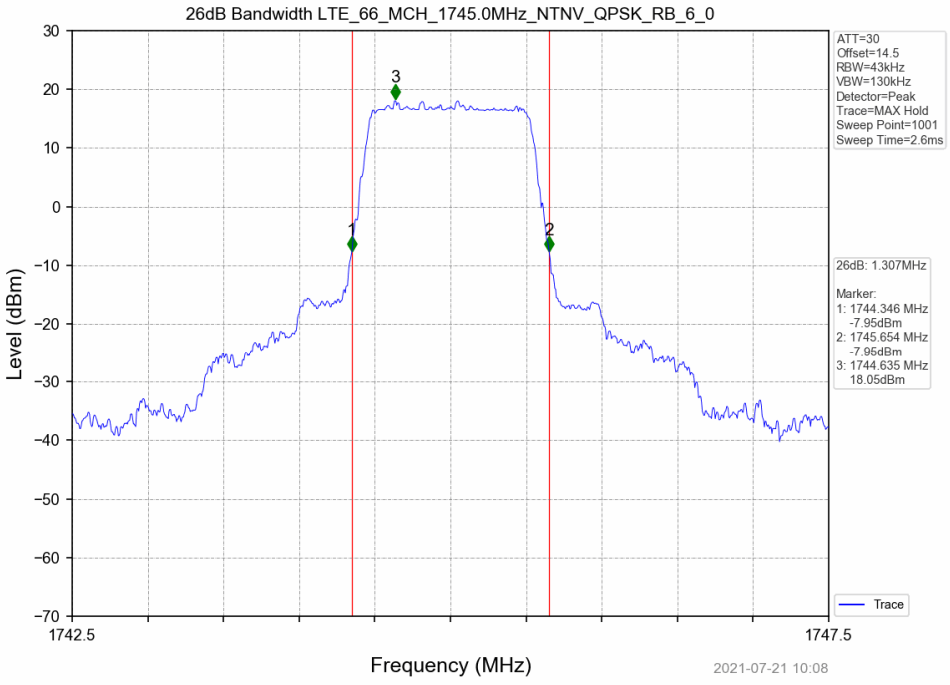
4.2 Test Graph

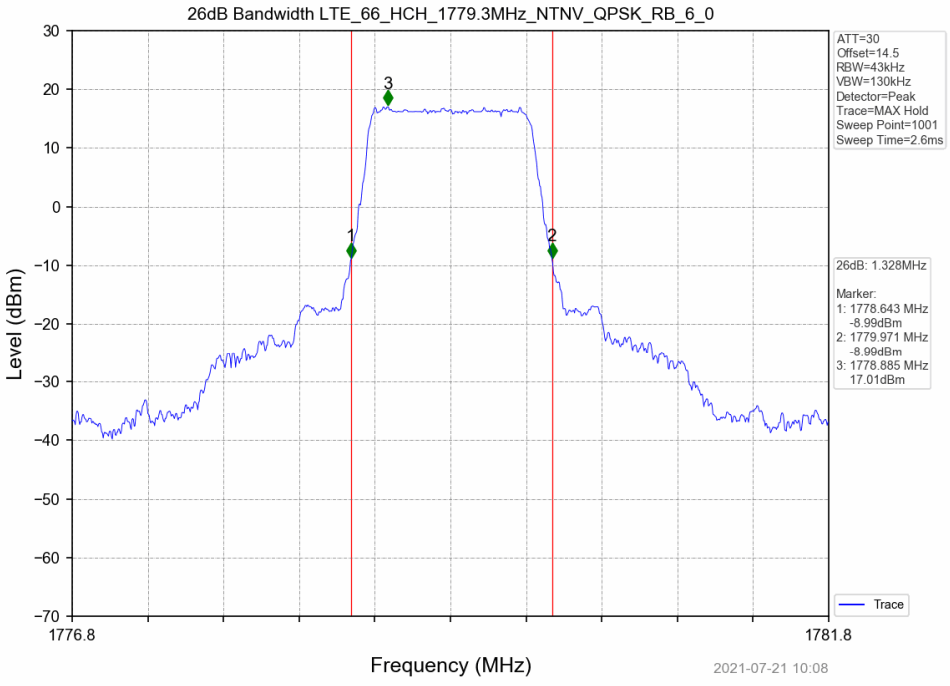





26dB Bandwidth LTE_66_HCH_1779.3MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.306MHz
Marker:
1: 1778.641 MHz
-7.67dBm
2: 1779.948 MHz
-7.67dBm
3: 1778.895 MHz
18.33dBm
Trace
Level (dBm)
Frequency (MHz)
1776.8
1781.8
2021-07-21 10:08

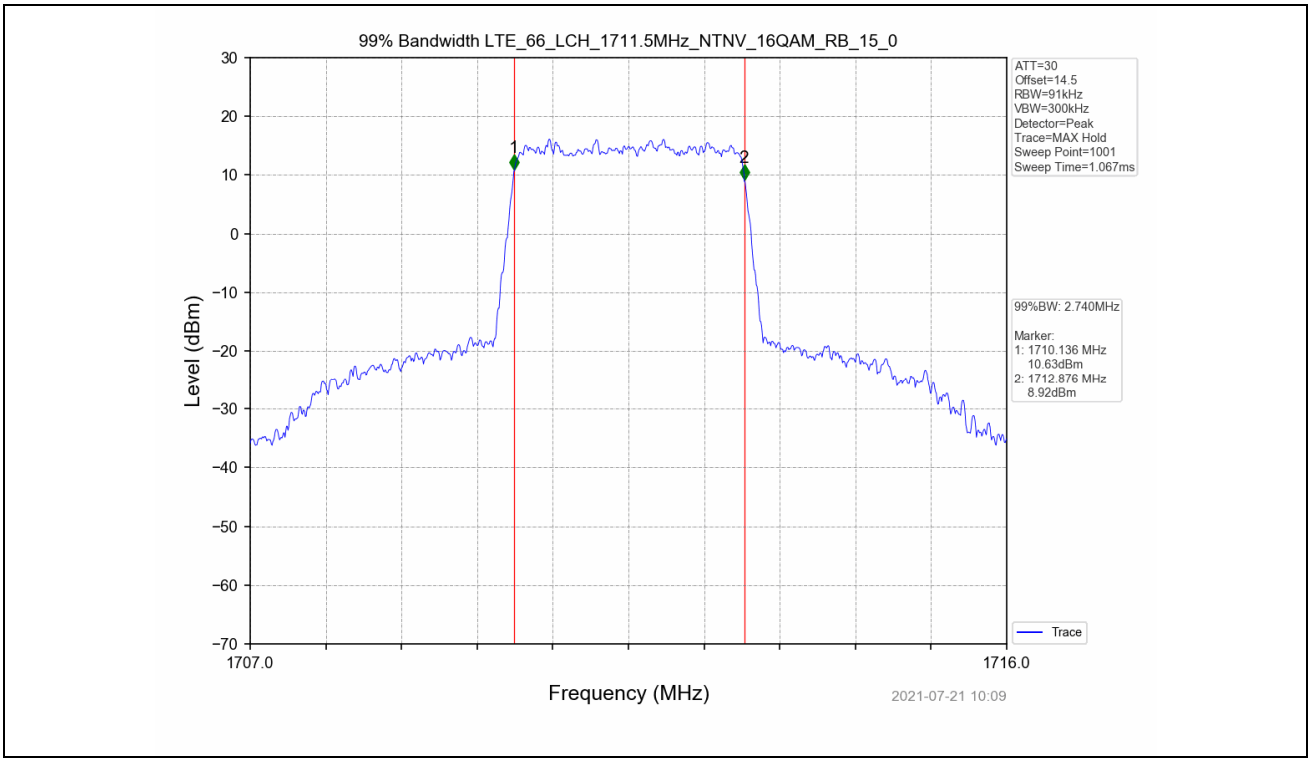

26dB Bandwidth LTE_66_LCH_1710.7MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.341MHz
Marker:
1: 1710.041 MHz
-8.71dBm
2: 1711.382 MHz
-8.71dBm
3: 1710.705 MHz
17.29dBm
Trace
Level (dBm)
Frequency (MHz)
1708.2
1713.2
2021-07-21 10:08

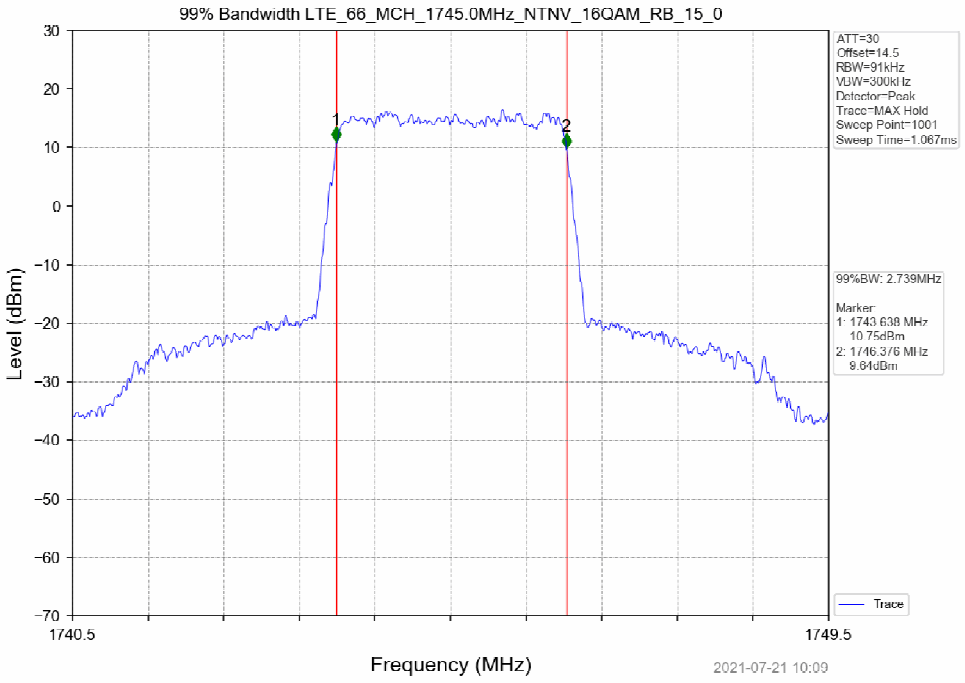

26dB Bandwidth LTE_66_MCH_1745.0MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.307MHz
Marker:
1: 1744.346 MHz
-7.95dBm
2: 1745.654 MHz
-7.96dBm
3: 1744.635 MHz
18.05dBm
Trace
Level (dBm)
Frequency (MHz)
1742.5
1747.5
2021-07-21 10:08

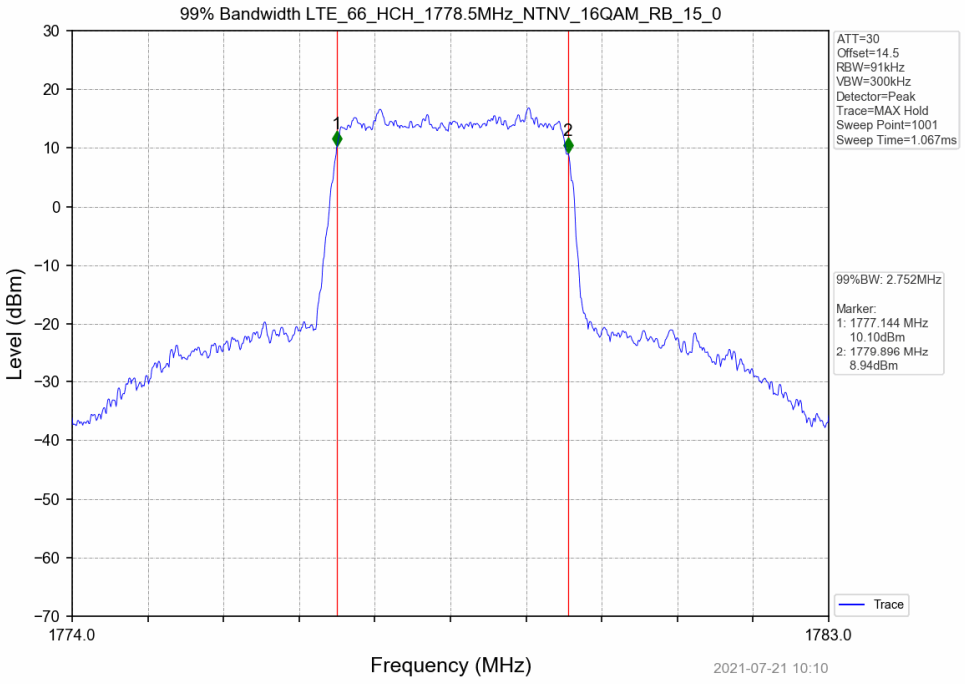

26dB Bandwidth LTE_66_HCH_1779.3MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=14.5
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.328MHz
Marker:
1: 1778.643 MHz
-8.99dBm
2: 1779.971 MHz
-8.99dBm
3: 1778.885 MHz
17.01dBm
Trace
Level (dBm)
Frequency (MHz)
1776.8
1781.8
2021-07-21 10:08

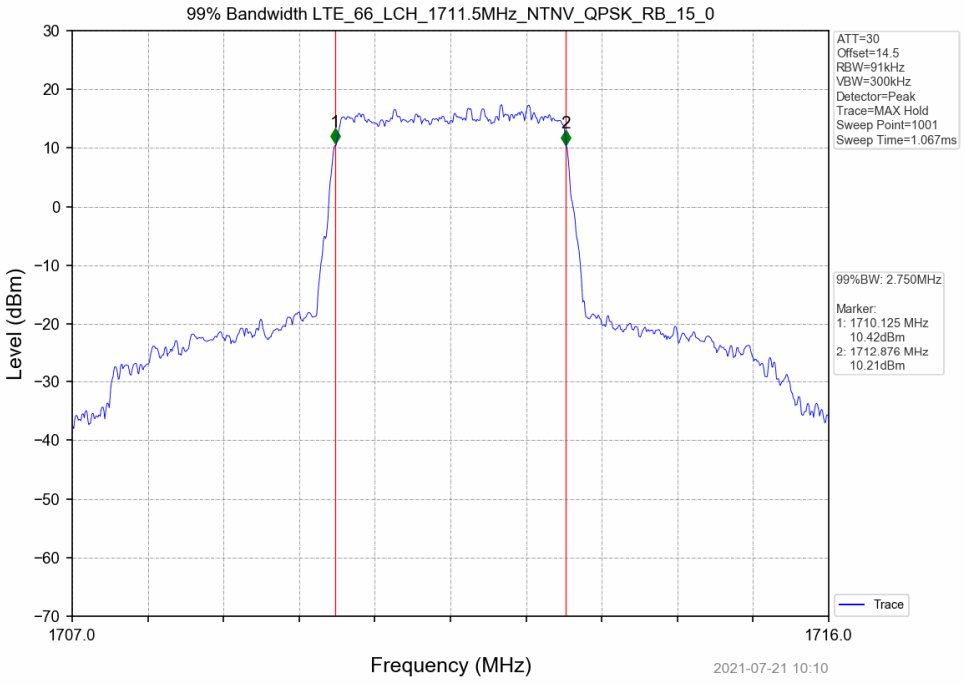
Test Band: 66 _ 3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.750	2.744	2.744	N/A	PASS
16QAM	15	0	2.740	2.739	2.752	N/A	PASS

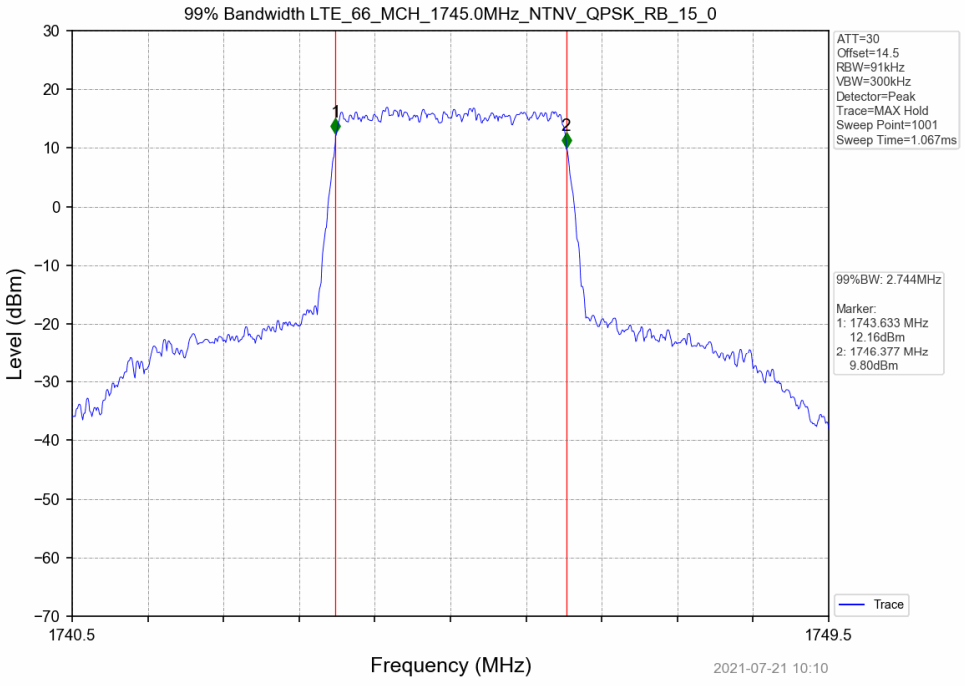
4.2 Test Graph

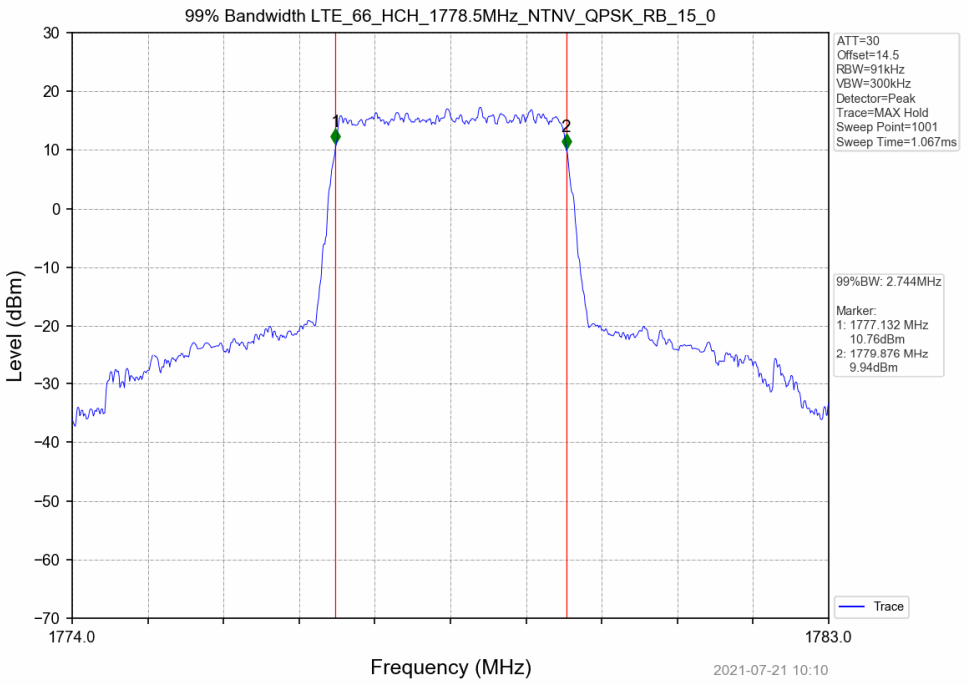



99% Bandwidth LTE_66_MCH_1745.0MHz_NTNV_16QAM_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.739MHz
Marker:
1: 1743.638 MHz
10.75dBm
2: 1746.376 MHz
9.84dBm
Trace
Level (dBm)
Frequency (MHz)
1740.5
1749.5
2021-07-21 10:09


99% Bandwidth LTE_66_HCH_1778.5MHz_NTNV_16QAM_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.752MHz
Marker:
1: 1777.144 MHz
10.10dBm
2: 1779.896 MHz
8.94dBm
Trace
Level (dBm)
Frequency (MHz)
1774.0
1783.0
2021-07-21 10:10

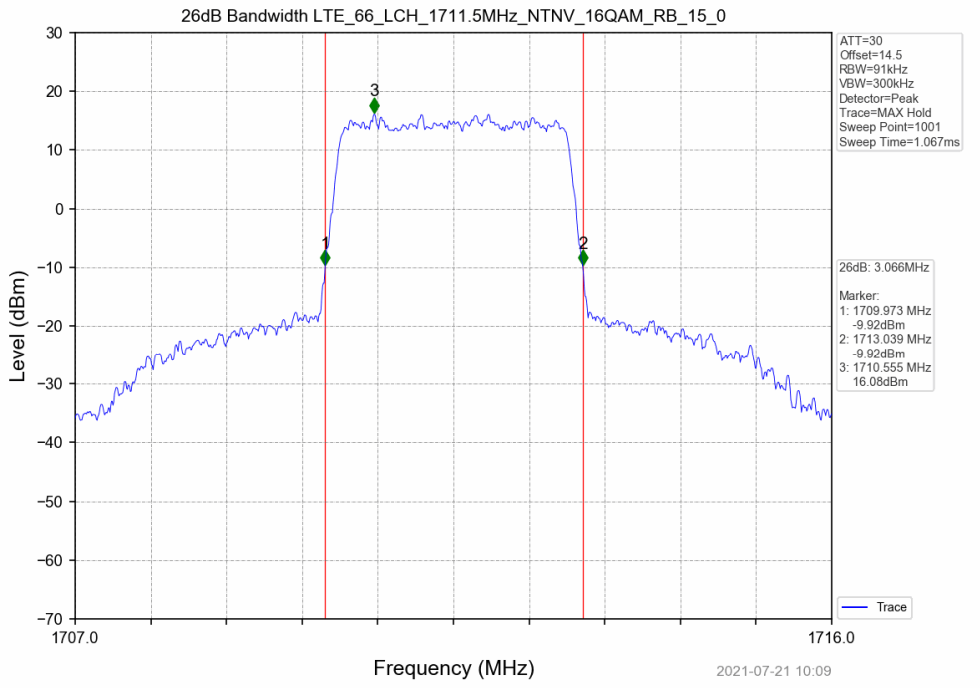

99% Bandwidth LTE_66_LCH_1711.5MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.750MHz
Marker:
1: 1710.125 MHz
10.42dBm
2: 1712.876 MHz
10.21dBm
Trace
Level (dBm)
Frequency (MHz)
1707.0
1716.0
2021-07-21 10:10

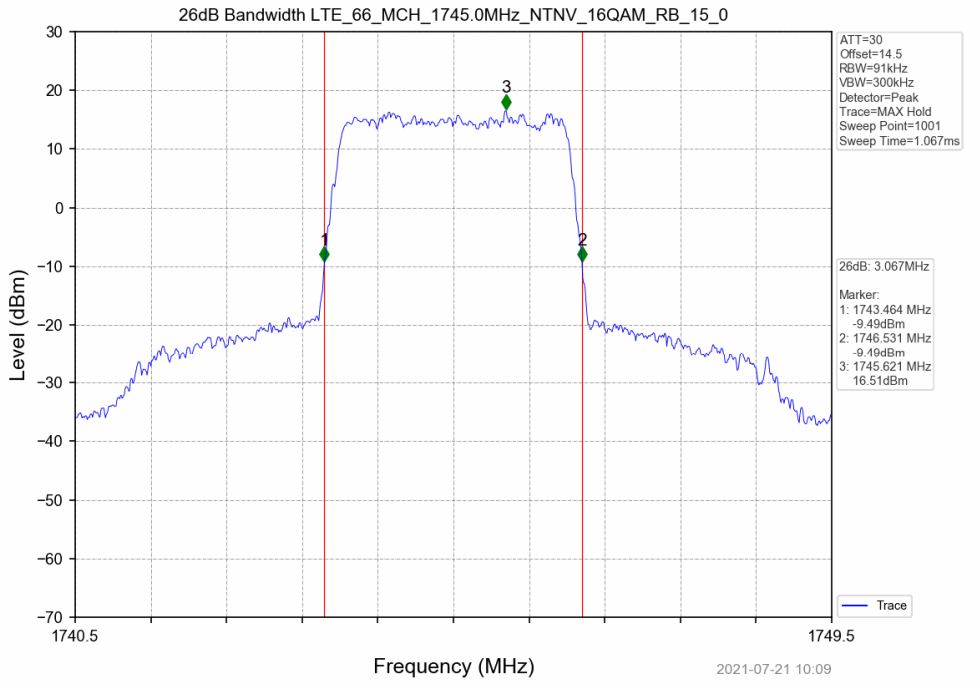

99% Bandwidth LTE_66_MCH_1745.0MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.744MHz
Marker:
1: 1743.633 MHz
12.16dBm
2: 1746.377 MHz
9.80dBm
Trace
Level (dBm)
Frequency (MHz)
1740.5
1749.5
2021-07-21 10:10

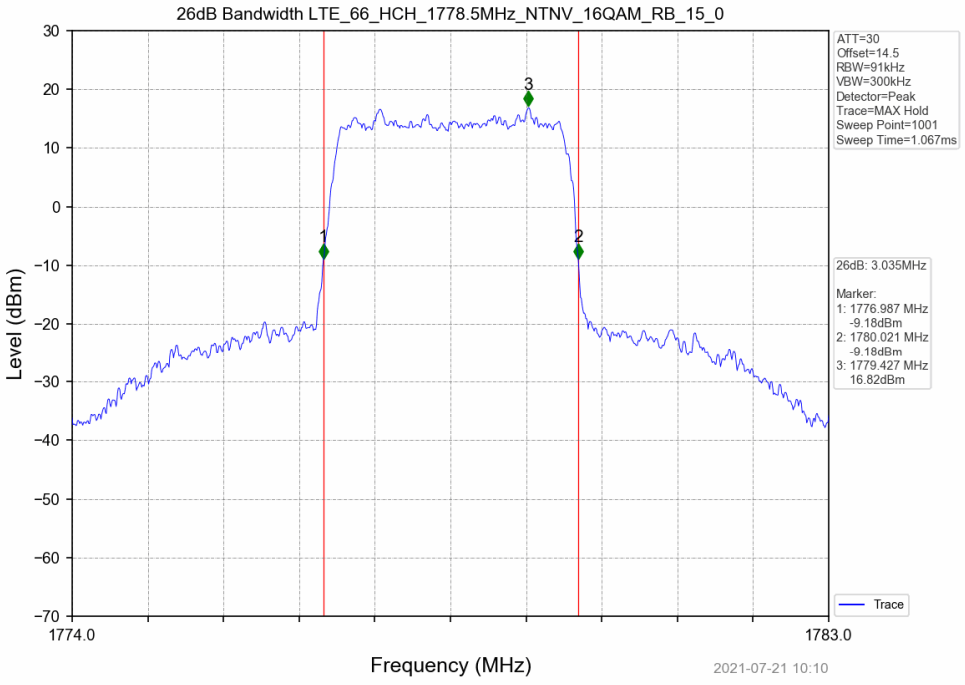


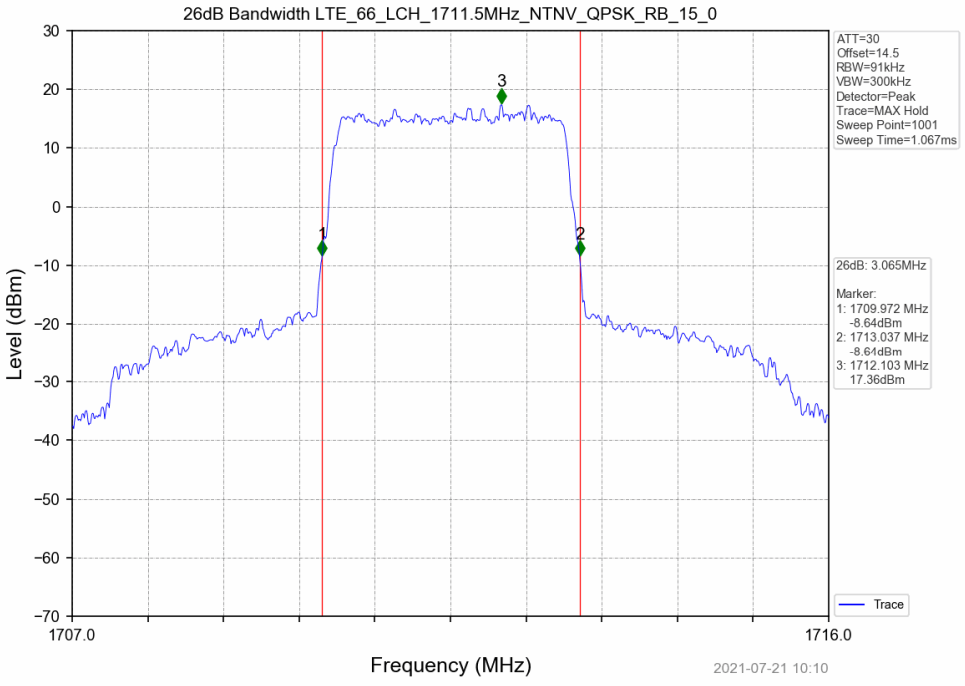
Test Band: 66 _ 3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.065	3.065	3.061	N/A	PASS
16QAM	15	0	3.066	3.067	3.035	N/A	PASS

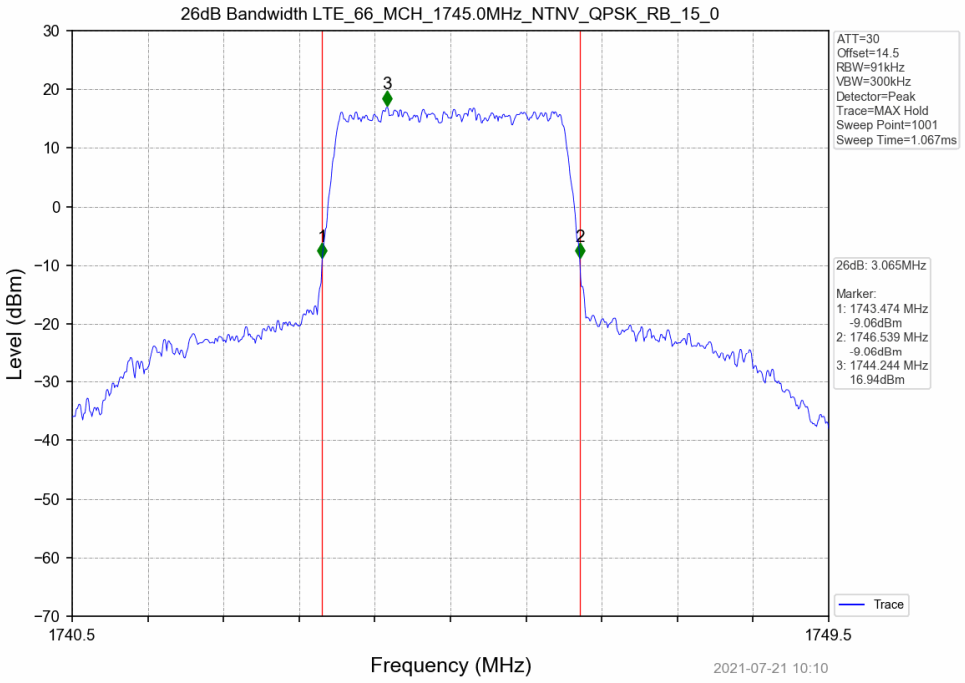
4.2 Test Graph

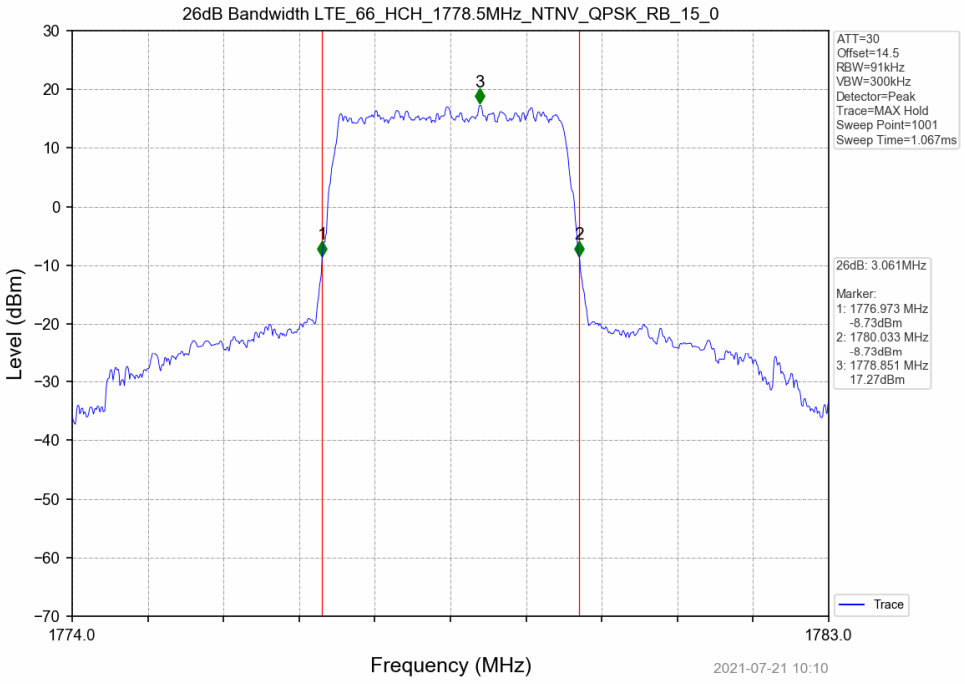





26dB Bandwidth LTE_66_HCH_1778.5MHz_NTNV_16QAM_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.035MHz
Marker:
1: 1776.987 MHz
-9.18dBm
2: 1780.021 MHz
-9.18dBm
3: 1779.427 MHz
16.82dBm
Trace
Level (dBm)
Frequency (MHz)
1774.0
1783.0
2021-07-21 10:10


26dB Bandwidth LTE_66_LCH_1711.5MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.065MHz
Marker:
1: 1709.972 MHz
-8.64dBm
2: 1713.037 MHz
-8.64dBm
3: 1712.103 MHz
17.36dBm
Trace
Level (dBm)
Frequency (MHz)
1707.0
1716.0
2021-07-21 10:10


26dB Bandwidth LTE_66_MCH_1745.0MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.065MHz
Marker:
1: 1743.474 MHz
-9.06dBm
2: 1746.539 MHz
-9.06dBm
3: 1744.244 MHz
16.94dBm
Trace
Level (dBm)
Frequency (MHz)
1740.5
1749.5
2021-07-21 10:10


26dB Bandwidth LTE_66_HCH_1778.5MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=14.5
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.061MHz
Marker:
1: 1776.973 MHz
-8.73dBm
2: 1780.033 MHz
-8.73dBm
3: 1778.851 MHz
17.27dBm
Trace
Level (dBm)
Frequency (MHz)
1774.0
1783.0
2021-07-21 10:10