

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 5 1.4MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.04	23.17	23.08	-2.48	-0.33	20.56	20.69	20.6	38.45	PASS	
		2	23.14	23.29	23.14	-2.48	-0.33	20.66	20.81	20.66	38.45	PASS	
		5	23.08	23.21	22.74	-2.48	-0.33	20.6	20.73	20.26	38.45	PASS	
	3	0	23.12	23.23	23.26	-2.48	-0.33	20.64	20.75	20.78	38.45	PASS	
		2	23.21	23.27	23.27	-2.48	-0.33	20.73	20.79	20.79	38.45	PASS	
		3	23.16	23.28	23.05	-2.48	-0.33	20.68	20.8	20.57	38.45	PASS	
	16QAM	6	0	22.17	22.30	22.25	-2.48	-0.33	19.69	19.82	19.77	38.45	PASS
				22.24	22.21	22.10	-2.48	-0.33	19.76	19.73	19.62	38.45	PASS
		1	2	22.30	22.31	22.18	-2.48	-0.33	19.82	19.83	19.7	38.45	PASS
5			22.19	22.25	22.10	-2.48	-0.33	19.71	19.77	19.62	38.45	PASS	
0			22.08	22.32	22.32	-2.48	-0.33	19.6	19.84	19.84	38.45	PASS	
3		2	22.14	22.33	22.41	-2.48	-0.33	19.66	19.85	19.93	38.45	PASS	
	3	22.11	22.28	22.37	-2.48	-0.33	19.63	19.8	19.89	38.45	PASS		
	6	0	21.21	21.21	21.22	-2.48	-0.33	18.73	18.73	18.74	38.45	PASS	

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 3MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.08	23.27	23.23	-2.48	-0.33	20.6	20.79	20.75	38.45	PASS	
		7	23.31	23.40	23.31	-2.48	-0.33	20.83	20.92	20.83	38.45	PASS	
		14	23.17	23.27	22.79	-2.48	-0.33	20.69	20.79	20.31	38.45	PASS	
	8	0	22.15	22.28	22.22	-2.48	-0.33	19.67	19.8	19.74	38.45	PASS	
		4	22.21	22.31	22.23	-2.48	-0.33	19.73	19.83	19.75	38.45	PASS	
		7	22.18	22.27	22.16	-2.48	-0.33	19.7	19.79	19.68	38.45	PASS	
	16QAM	15	0	22.15	22.25	22.19	-2.48	-0.33	19.67	19.77	19.71	38.45	PASS
				22.25	22.27	22.67	-2.48	-0.33	19.77	19.79	20.19	38.45	PASS
		1	7	22.47	22.48	22.79	-2.48	-0.33	19.99	20	20.31	38.45	PASS
14			22.31	22.32	22.62	-2.48	-0.33	19.83	19.84	20.14	38.45	PASS	
0			21.15	21.36	21.41	-2.48	-0.33	18.67	18.88	18.93	38.45	PASS	
8		4	21.22	21.37	21.43	-2.48	-0.33	18.74	18.89	18.95	38.45	PASS	
	7	21.18	21.33	21.35	-2.48	-0.33	18.7	18.85	18.87	38.45	PASS		
	15	0	21.13	21.30	21.26	-2.48	-0.33	18.65	18.82	18.78	38.45	PASS	

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 5MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.05	23.13	23.11	-2.48	-0.33	20.57	20.65	20.63	38.45	PASS	
		13	23.24	23.28	23.25	-2.48	-0.33	20.76	20.8	20.77	38.45	PASS	
		24	23.10	23.17	23.07	-2.48	-0.33	20.62	20.69	20.59	38.45	PASS	
	12	0	22.09	22.28	22.27	-2.48	-0.33	19.61	19.8	19.79	38.45	PASS	
		6	22.21	22.30	22.25	-2.48	-0.33	19.73	19.82	19.77	38.45	PASS	
		13	22.23	22.26	22.05	-2.48	-0.33	19.75	19.78	19.57	38.45	PASS	
	25	0	22.16	22.29	22.15	-2.48	-0.33	19.68	19.81	19.67	38.45	PASS	
	16QAM	1	0	22.27	22.23	22.02	-2.48	-0.33	19.79	19.75	19.54	38.45	PASS
			13	22.46	22.39	22.09	-2.48	-0.33	19.98	19.91	19.61	38.45	PASS
24			22.30	22.34	21.93	-2.48	-0.33	19.82	19.86	19.45	38.45	PASS	
12		0	21.12	21.28	21.22	-2.48	-0.33	18.64	18.8	18.74	38.45	PASS	
		6	21.25	21.32	21.26	-2.48	-0.33	18.77	18.84	18.78	38.45	PASS	
		13	21.29	21.27	21.05	-2.48	-0.33	18.81	18.79	18.57	38.45	PASS	
25		0	21.17	21.30	21.24	-2.48	-0.33	18.69	18.82	18.76	38.45	PASS	

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 10MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.10	23.27	23.31	-2.48	-0.33	20.62	20.79	20.83	38.45	PASS	
		25	23.28	23.38	23.37	-2.48	-0.33	20.8	20.9	20.89	38.45	PASS	
		49	23.20	23.28	23.20	-2.48	-0.33	20.72	20.8	20.72	38.45	PASS	
	25	0	22.09	22.46	22.33	-2.48	-0.33	19.61	19.98	19.85	38.45	PASS	
		13	22.25	22.30	22.27	-2.48	-0.33	19.77	19.82	19.79	38.45	PASS	
		25	22.15	22.34	22.08	-2.48	-0.33	19.67	19.86	19.6	38.45	PASS	
	50	0	22.13	22.39	22.19	-2.48	-0.33	19.65	19.91	19.71	38.45	PASS	
	16QAM	1	0	22.27	22.21	22.86	-2.48	-0.33	19.79	19.73	20.38	38.45	PASS
			25	22.48	22.42	22.96	-2.48	-0.33	20	19.94	20.48	38.45	PASS
49			22.34	22.32	22.69	-2.48	-0.33	19.86	19.84	20.21	38.45	PASS	
25		0	21.15	21.54	21.33	-2.48	-0.33	18.67	19.06	18.85	38.45	PASS	
		13	21.30	21.41	21.32	-2.48	-0.33	18.82	18.93	18.84	38.45	PASS	
		25	21.18	21.42	21.16	-2.48	-0.33	18.7	18.94	18.68	38.45	PASS	
50		0	21.16	21.43	21.22	-2.48	-0.33	18.68	18.95	18.74	38.45	PASS	

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

2. Frequency stability

2.1 Test Result

Test Band: 5_ 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	-3.7622	-6.4802	-0.8583	-0.0046	-0.0077	-0.0010	2.50	PASS
				NV	-6.9809	-2.3317	-0.9298	-0.0085	-0.0028	-0.0011	2.50	PASS
				HV	-	-	-0.5436	-0.0201	-0.0124	-0.0006	2.50	PASS
16QAM	6	0	NT	LV	-	1.4305	-	-0.0129	0.0017	-0.0147	2.50	PASS
				NV	-	-0.0715	0.5722	-0.0146	-0.0001	0.0007	2.50	PASS
				HV	-	-1.2588	-3.0327	-0.0156	-0.0015	-0.0036	2.50	PASS

Test Band: 5_ 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	-	-3.4761	-1.6594	-0.0155	-0.0042	-0.0020	2.50	PASS
				-20.00	-9.4271	-5.5075	-3.8052	-0.0114	-0.0066	-0.0045	2.50	PASS
				-10.00	-5.5075	-3.0899	-	-0.0067	-0.0037	-0.0123	2.50	PASS
				0.00	3.1471	-3.7766	-5.3644	0.0038	-0.0045	-0.0063	2.50	PASS
				10.00	-0.8583	-3.6621	-5.1069	-0.0010	-0.0044	-0.0060	2.50	PASS
				20.00	-3.7193	-3.6335	-0.7153	-0.0045	-0.0043	-0.0008	2.50	PASS
				30.00	-	-4.0197	-4.0913	-0.0156	-0.0048	-0.0048	2.50	PASS
				40.00	-8.4400	-4.2915	-2.4891	-0.0102	-0.0051	-0.0029	2.50	PASS
				50.00	-5.4646	-4.4346	-2.1601	-0.0066	-0.0053	-0.0025	2.50	PASS
16QAM	6	0	NV	-30.00	-	-9.7847	-2.6608	-0.0136	-0.0117	-0.0031	2.50	PASS
				-20.00	-4.1056	-6.7663	-6.3372	-0.0050	-0.0081	-0.0075	2.50	PASS
				-10.00	-0.4864	1.0872	-6.0368	-0.0006	0.0013	-0.0071	2.50	PASS
				0.00	-	-1.6451	-6.6948	-0.0165	-0.0020	-0.0079	2.50	PASS
				10.00	-2.9898	-6.4945	-3.1614	-0.0036	-0.0078	-0.0037	2.50	PASS
				20.00	-8.1682	-3.8052	-6.3372	-0.0099	-0.0045	-0.0075	2.50	PASS
				30.00	-7.1669	-0.5436	-7.9966	-0.0087	-0.0006	-0.0094	2.50	PASS
				40.00	0.4435	-	-4.3917	0.0005	-0.0155	-0.0052	2.50	PASS
				50.00	-	-8.1253	-5.7936	-0.0130	-0.0097	-0.0068	2.50	PASS

Test Band: 5_ 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	-	1.1015	-	-0.0145	0.0013	-0.0139	2.50	PASS
				NV	-3.9339	-3.0184	-7.1526	-0.0048	-0.0036	-0.0084	2.50	PASS
				HV	-6.1941	-2.8038	-4.9639	-0.0075	-0.0034	-0.0059	2.50	PASS
16QAM	15	0	NT	LV	-2.3890	-	-2.9898	-0.0029	-0.0164	-0.0035	2.50	PASS
				NV	0.4578	13.7043	-1.1015	0.0006	-0.0079	-0.0013	2.50	PASS
				HV	-2.8610	-0.9871	-6.1655	-0.0035	-0.0012	-0.0073	2.50	PASS

Test Band: 5_ 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	-2.5463	-3.6907	-7.9393	-0.0031	-0.0044	-0.0094	2.50	PASS
				-20.00	-4.5204	-0.1431	-2.2173	-0.0055	-0.0002	-0.0026	2.50	PASS
				-10.00	-7.5388	-0.1860	-0.3147	-0.0091	-0.0002	-0.0004	2.50	PASS
				0.00	-5.6076	-3.0756	3.0470	-0.0068	-0.0037	0.0036	2.50	PASS
				10.00	-6.5088	-3.5477	-0.6437	-0.0079	-0.0042	-0.0008	2.50	PASS
				20.00	-	0.0858	-3.6049	-0.0156	0.0001	-0.0043	2.50	PASS
				30.00	-9.4414	-0.2861	-4.1628	-0.0114	-0.0003	-0.0049	2.50	PASS
				40.00	-4.7922	-2.9469	-3.2330	-0.0058	-0.0035	-0.0038	2.50	PASS
				50.00	-5.8651	-3.8052	-3.1185	-0.0071	-0.0045	-0.0037	2.50	PASS
16QAM	15	0	NV	-30.00	-6.9094	-7.3385	-5.6076	-0.0084	-0.0088	-0.0066	2.50	PASS
				-20.00	-7.5674	-	-2.6178	-0.0092	-0.0159	-0.0031	2.50	PASS
				-10.00	-7.2384	-7.4959	-5.9652	-0.0088	-0.0090	-0.0070	2.50	PASS
				0.00	-8.6975	-6.3658	-5.3215	-0.0105	-0.0076	-0.0063	2.50	PASS
				10.00	-8.2111	-3.8624	-2.3317	-0.0099	-0.0046	-0.0028	2.50	PASS
				20.00	-	1.5593	-6.1655	-0.0200	0.0019	-0.0073	2.50	PASS
				30.00	-	-1.4734	-2.0885	-0.0127	-0.0018	-0.0025	2.50	PASS
				40.00	-	-5.8937	-1.4019	-0.0143	-0.0070	-0.0017	2.50	PASS
				50.00	-3.4618	-6.5517	-3.7622	-0.0042	-0.0078	-0.0044	2.50	PASS

Test Band: 5_ 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	-	-5.0640	-	-0.0159	-0.0061	-0.0157	2.50	PASS
				NV	-0.5436	-8.1253	-3.6478	-0.0007	-0.0097	-0.0043	2.50	PASS
				HV	-6.7377	-1.8311	-7.2813	-0.0082	-0.0022	-0.0086	2.50	PASS
16QAM	25	0	NT	LV	-0.5722	-8.7261	-4.9925	-0.0007	-0.0104	-0.0059	2.50	PASS
				NV	-1.0443	-7.6103	-8.3685	-0.0013	-0.0091	-0.0099	2.50	PASS
				HV	-4.6062	-7.7105	-9.4986	-0.0056	-0.0092	-0.0112	2.50	PASS

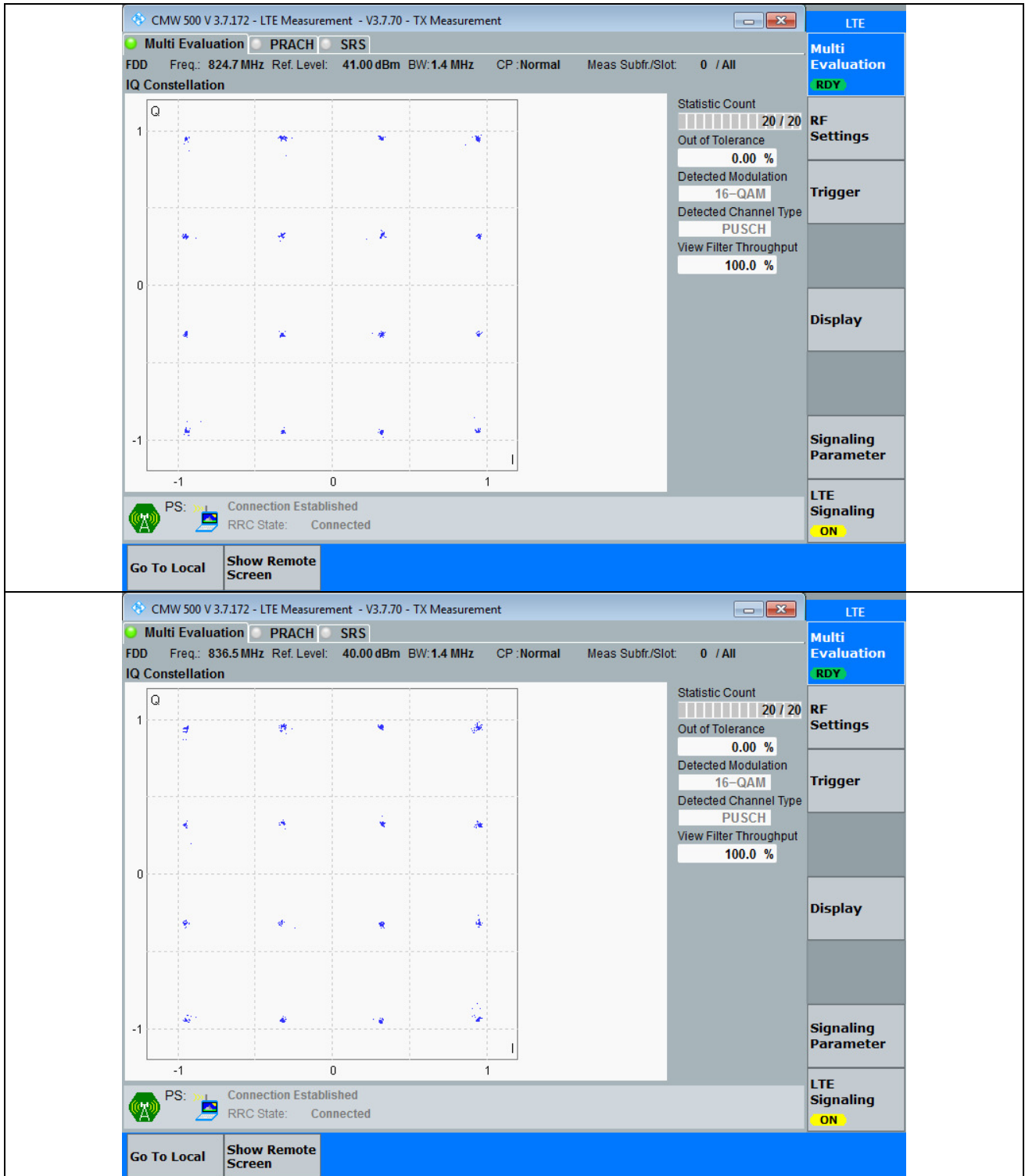
Test Band: 5 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-7.5674	-2.9182	-7.4673	-0.0092	-0.0035	-0.0088	2.50	PASS
				-20.00	-7.9393	-2.3031	-2.9755	-0.0096	-0.0028	-0.0035	2.50	PASS
				-10.00	-8.3971	-2.5320	-6.7234	-0.0102	-0.0030	-0.0079	2.50	PASS
				0.00	-7.8678	0.2146	-8.1682	-0.0095	0.0003	-0.0096	2.50	PASS
				10.00	-8.0824	-3.4046	-5.5218	-0.0098	-0.0041	-0.0065	2.50	PASS
				20.00	-8.6117	-0.7296	-4.3488	-0.0104	-0.0009	-0.0051	2.50	PASS
				30.00	-8.7404	-1.2302	-7.4387	-0.0106	-0.0015	-0.0088	2.50	PASS
				40.00	-7.8249	-6.4087	-6.8808	-0.0095	-0.0077	-0.0081	2.50	PASS
				50.00	-8.7976	-3.2473	-8.0824	-0.0106	-0.0039	-0.0095	2.50	PASS
16QAM	25	0	NV	-30.00	-4.3917	-3.6335	-8.7404	-0.0053	-0.0043	-0.0103	2.50	PASS
				-20.00	-1.9741	-4.7207	-7.3099	-0.0024	-0.0056	-0.0086	2.50	PASS
				-10.00	-1.7595	-3.3045	-2.8896	-0.0021	-0.0040	-0.0034	2.50	PASS
				0.00	-	-3.6049	-4.3917	-0.0125	-0.0043	-0.0052	2.50	PASS
				10.00	10.3140	-5.7793	-4.3058	-0.0116	-0.0069	-0.0051	2.50	PASS
				20.00	-9.5844	-3.7909	-4.7922	-0.0071	-0.0045	-0.0057	2.50	PASS
				30.00	-5.8937	-0.7582	-5.9223	-0.0041	-0.0009	-0.0070	2.50	PASS
				40.00	-3.3760	-5.1355	-6.4945	-0.0050	-0.0061	-0.0077	2.50	PASS
				50.00	-4.1628	-4.9639	-	-0.0118	-0.0059	-0.0160	2.50	PASS
						13.5326						

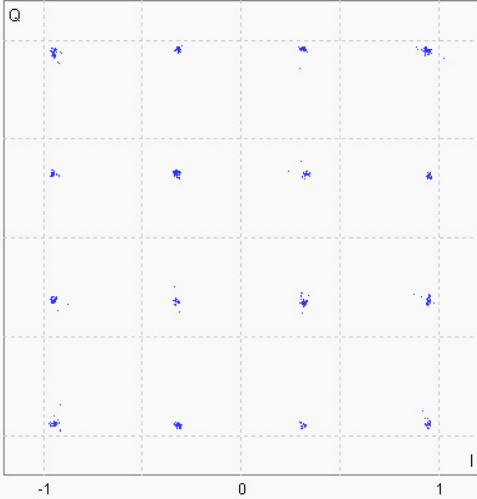
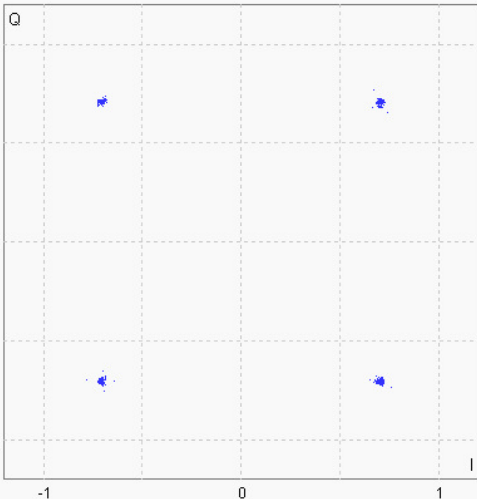
Test Band: 5 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-4.3488	-6.7377	-7.6818	-0.0052	-0.0081	-0.0091	2.50	PASS
				NV	-4.3631	-3.5620	-7.0095	-0.0053	-0.0043	-0.0083	2.50	PASS
				HV	-5.0354	-6.0797	-6.5088	-0.0061	-0.0073	-0.0077	2.50	PASS
16QAM	50	0	NT	LV	-2.7895	-0.5436	-8.5258	-0.0034	-0.0006	-0.0101	2.50	PASS
				NV	-5.7507	-6.6090	-7.4244	-0.0069	-0.0079	-0.0088	2.50	PASS
				HV	-3.2616	-7.0381	-6.8235	-0.0039	-0.0084	-0.0081	2.50	PASS

Test Band: 5_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	-9.0551	-7.7963	-7.9966	-0.0109	-0.0093	-0.0095	2.50	PASS	
				-20.00	-4.2200	-5.1355	-11.9019	-0.0051	-0.0061	-0.0141	2.50	PASS	
				-10.00	-3.3760	-6.8092	-3.9053	-0.0041	-0.0081	-0.0046	2.50	PASS	
				0.00	-4.6349	-3.8052	-4.0913	-0.0056	-0.0045	-0.0048	2.50	PASS	
				10.00	-5.4646	-7.3385	-6.8522	-0.0066	-0.0088	-0.0081	2.50	PASS	
				20.00	-	-	-7.0810	-0.0125	-0.0121	-0.0084	2.50	PASS	
				30.00	-7.2670	-8.5402	-6.9809	-0.0088	-0.0102	-0.0083	2.50	PASS	
				40.00	-8.5258	-4.8923	-8.6546	-0.0103	-0.0058	-0.0103	2.50	PASS	
				50.00	-6.4087	-0.3433	-9.4557	-0.0077	-0.0004	-0.0112	2.50	PASS	
16QAM	50	0	NV	-30.00	-8.4972	-7.1812	-6.6948	-0.0102	-0.0086	-0.0079	2.50	PASS	
				-20.00	-5.4789	-5.4502	-7.6532	-0.0066	-0.0065	-0.0091	2.50	PASS	
				-10.00	-7.9679	-8.9836	-8.3256	-0.0096	-0.0107	-0.0099	2.50	PASS	
				0.00	-5.4932	-5.0640	-5.1498	-0.0066	-0.0061	-0.0061	2.50	PASS	
				10.00	-	-	-3.6621	-3.8052	-0.0132	-0.0044	-0.0045	2.50	PASS
				20.00	-3.7193	-7.4673	-8.0681	-0.0045	-0.0089	-0.0096	2.50	PASS	
				30.00	-5.1069	-7.7820	-8.4686	-0.0062	-0.0093	-0.0100	2.50	PASS	
				40.00	-5.7077	-7.6103	-8.9979	-0.0069	-0.0091	-0.0107	2.50	PASS	
				50.00	-7.4673	-8.2111	-8.4543	-0.0090	-0.0098	-0.0100	2.50	PASS	

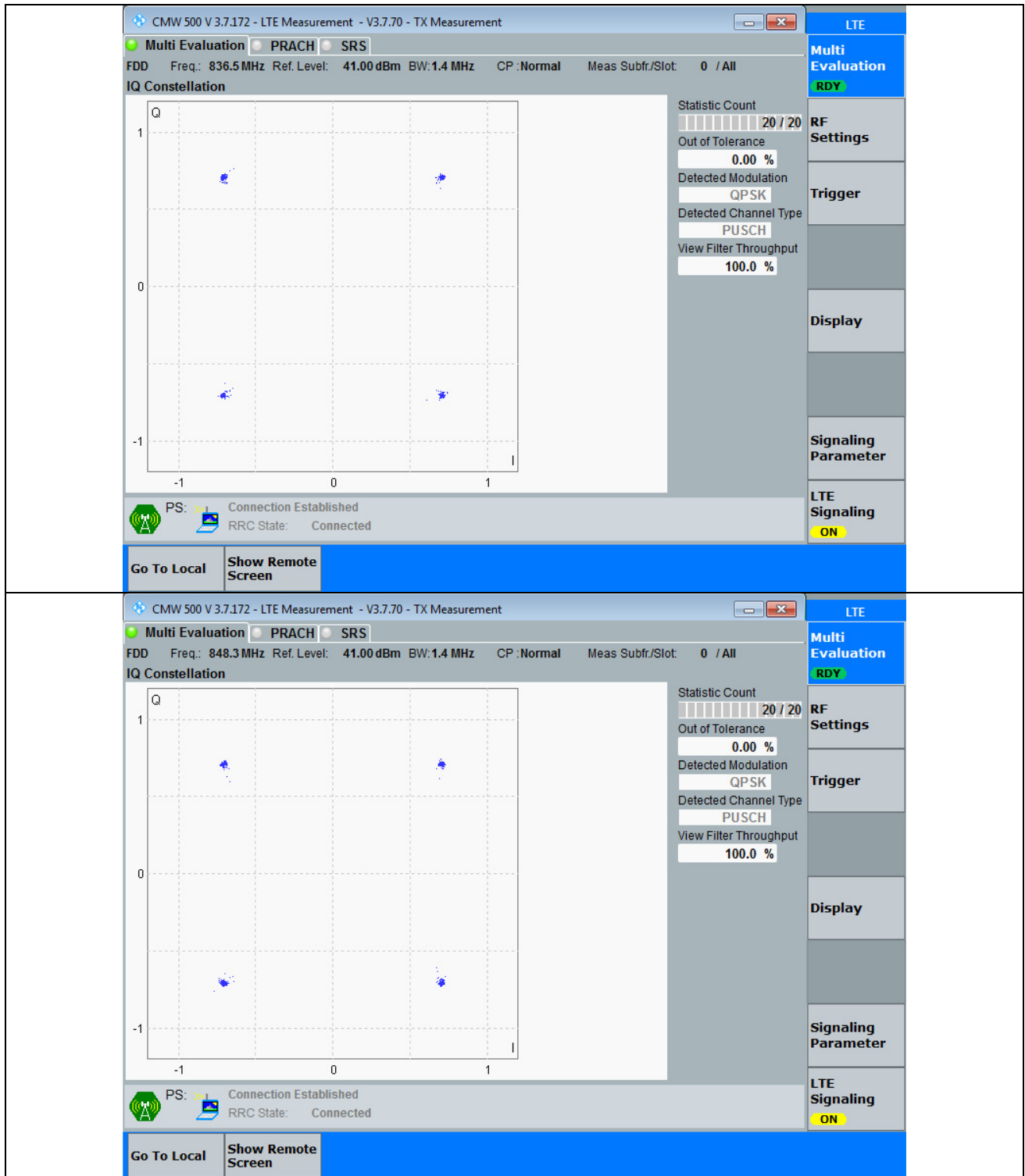
### 3. Modulation Characteristics

#### 3.1 Test Graph

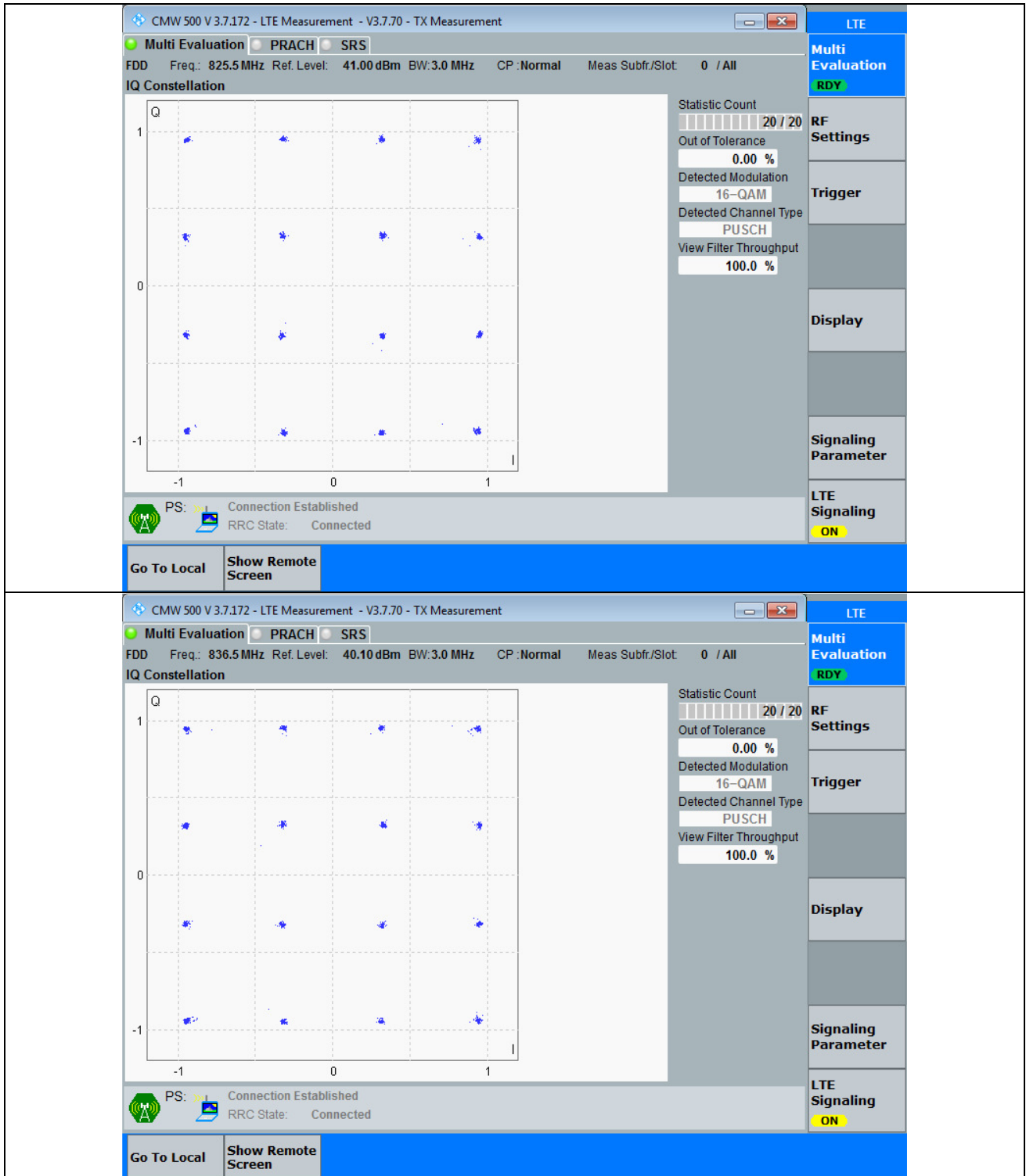


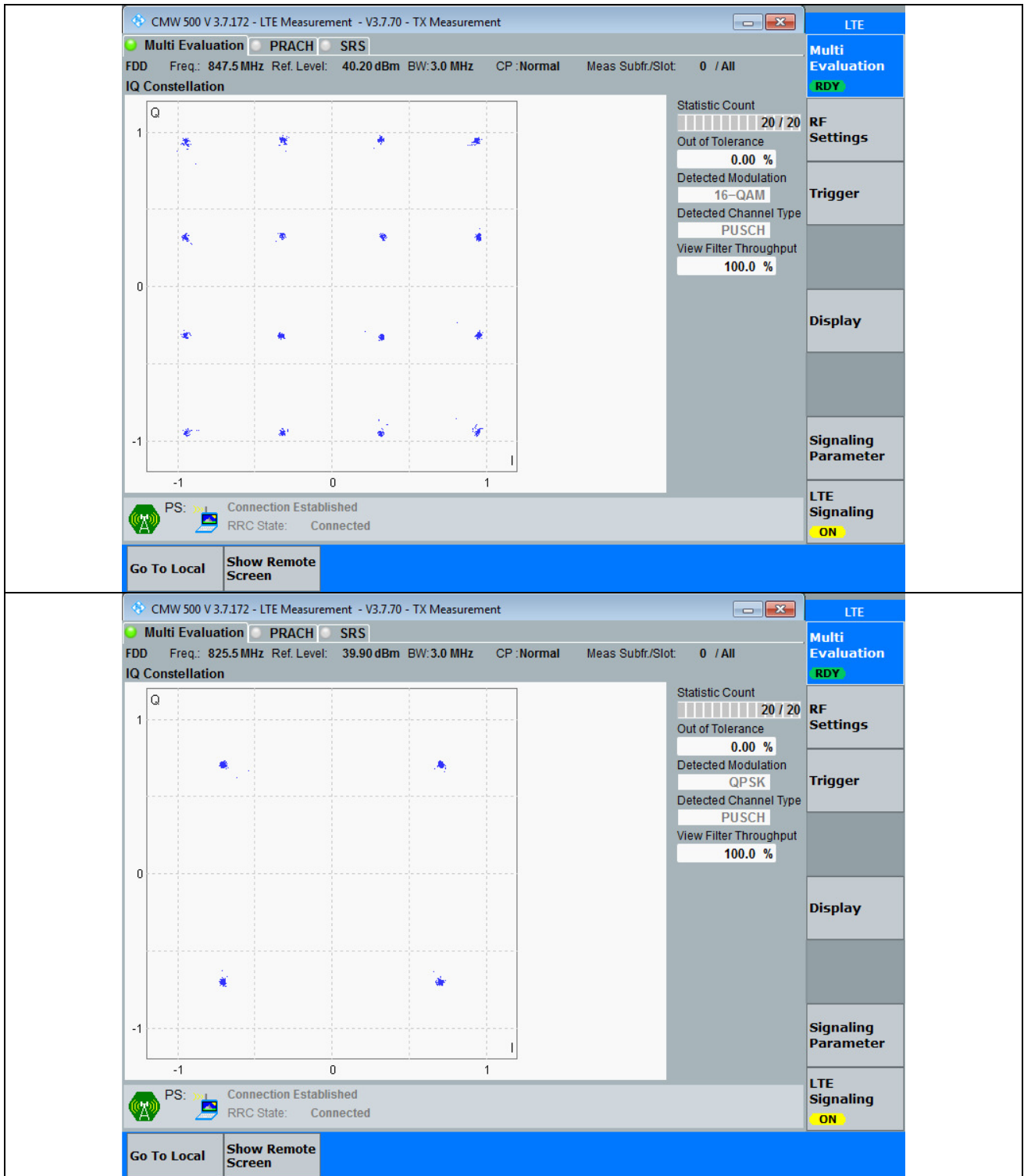
<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 848.3 MHz Ref. Level: 40.10 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20          Out of Tolerance: 0.00 %          Detected Modulation: 16-QAM          Detected Channel Type: PUSCH          View Filter Throughput: 100.0 %</p> <p>PS: Connection Established          RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>
<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 824.7 MHz Ref. Level: 40.00 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20          Out of Tolerance: 0.00 %          Detected Modulation: QPSK          Detected Channel Type: PUSCH          View Filter Throughput: 100.0 %</p> <p>PS: Connection Established          RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>





3.1 Test Graph

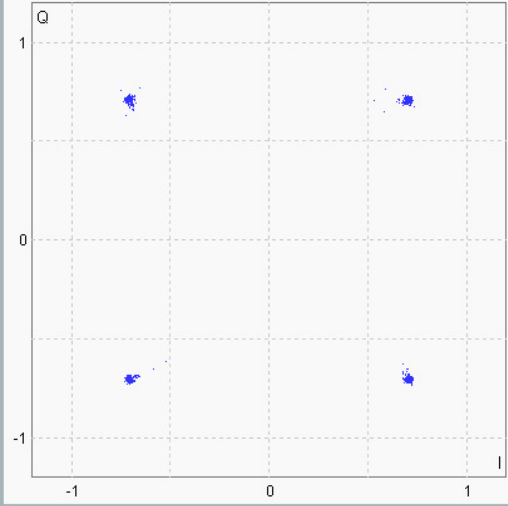




CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation
  PRACH
  SRS
 
FDD Freq.: 836.5 MHz Ref. Level: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**



Statistic Count  
█ 20 / 20

Out of Tolerance  
0.00 %

Detected Modulation  
QPSK

Detected Channel Type  
PUSCH

View Filter Throughput  
100.0 %

**Multi Evaluation**

RDY

**RF Settings**

**Trigger**

**Display**

**Signaling Parameter**

**LTE Signaling**

ON

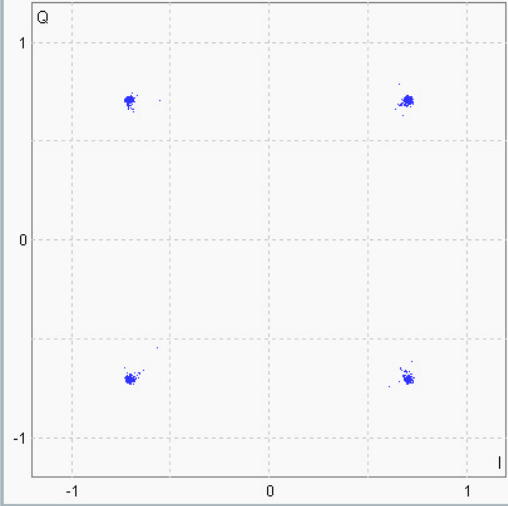
PS: Connection Established
RRC State: Connected

Go To Local
Show Remote Screen

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation
  PRACH
  SRS
 
FDD Freq.: 847.5 MHz Ref. Level: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**



Statistic Count  
█ 20 / 20

Out of Tolerance  
0.00 %

Detected Modulation  
QPSK

Detected Channel Type  
PUSCH

View Filter Throughput  
100.0 %

**Multi Evaluation**

RDY

**RF Settings**

**Trigger**

**Display**

**Signaling Parameter**

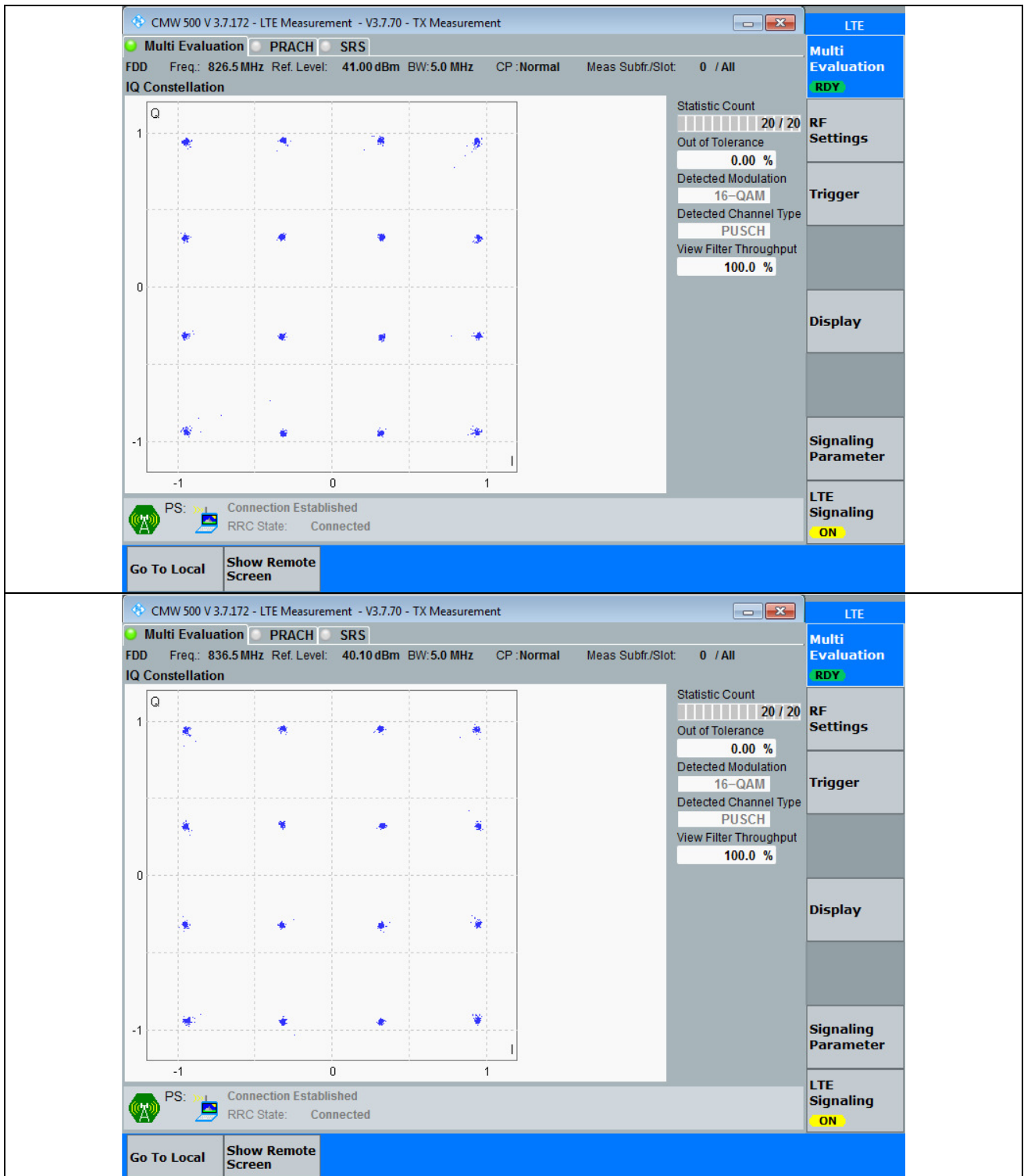
**LTE Signaling**

ON

PS: Connection Established
RRC State: Connected

Go To Local
Show Remote Screen

3.1 Test Graph



CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation
  PRACH
  SRS
 
FDD Freq.: 846.5 MHz Ref. Level: 40.10 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**

Statistic Count  
█ 20 / 20

Out of Tolerance  
0.00 %

Detected Modulation  
16-QAM

Detected Channel Type  
PUSCH

View Filter Throughput  
100.0 %

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling

ON

PS: Connection Established
RRC State: Connected

Go To Local
Show Remote Screen

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation
  PRACH
  SRS
 
FDD Freq.: 826.5 MHz Ref. Level: 40.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**

Statistic Count  
█ 20 / 20

Out of Tolerance  
0.00 %

Detected Modulation  
QPSK

Detected Channel Type  
PUSCH

View Filter Throughput  
100.0 %

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling

ON

PS: Connection Established
RRC State: Connected

Go To Local
Show Remote Screen

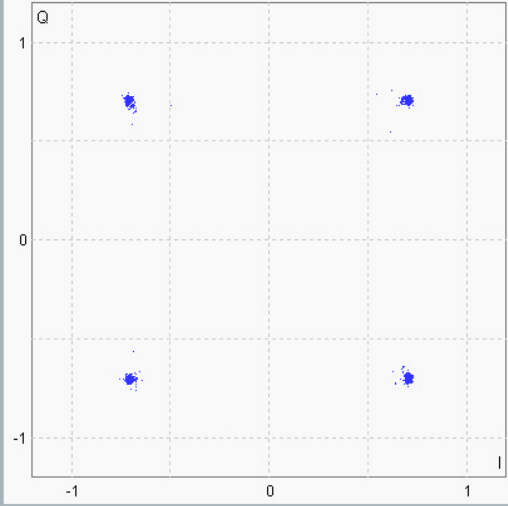


CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 836.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**



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

Go To Local Show Remote Screen

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling **ON**

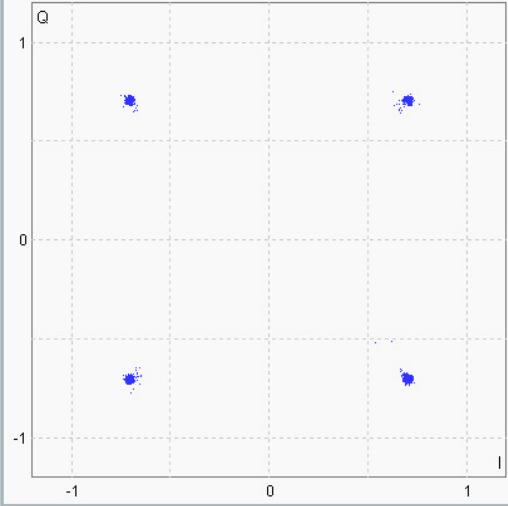
---

CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 846.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All

**IQ Constellation**



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

Go To Local Show Remote Screen

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

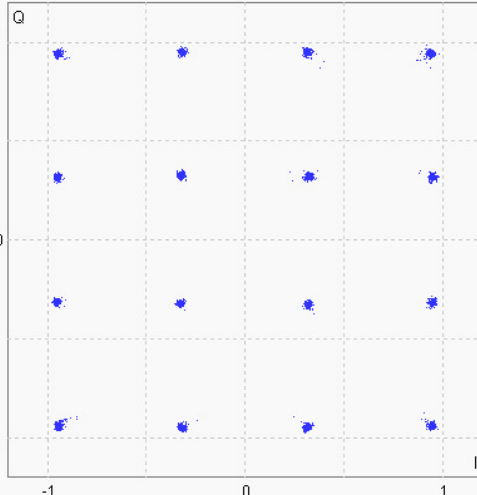
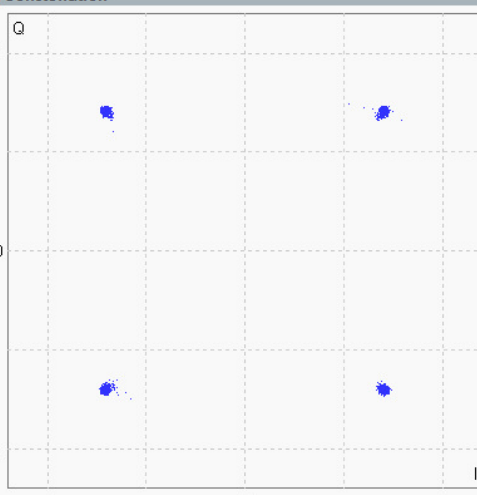
Signaling Parameter

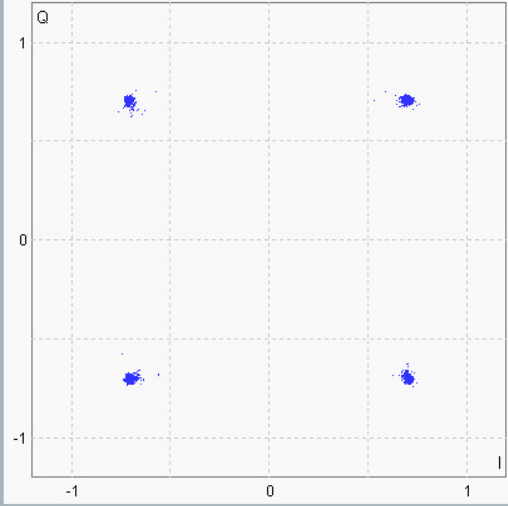
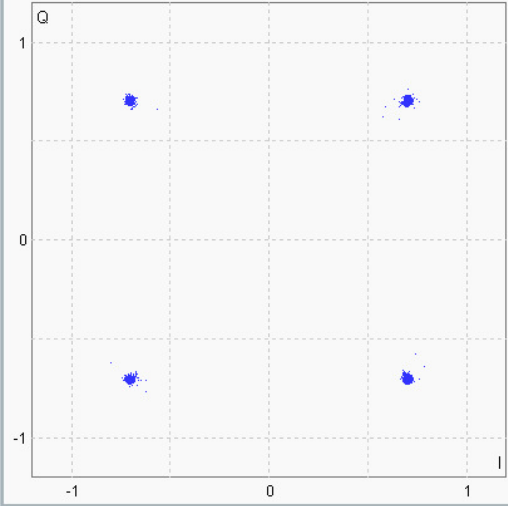
LTE Signaling **ON**

3.1 Test Graph





<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 844.0 MHz Ref. Level: 40.10 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20          Out of Tolerance: 0.00 %          Detected Modulation: 16-QAM          Detected Channel Type: PUSCH          View Filter Throughput: 100.0 %</p> <p>PS: Connection Established          RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>
<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 829.0 MHz Ref. Level: 39.90 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20          Out of Tolerance: 0.00 %          Detected Modulation: QPSK          Detected Channel Type: PUSCH          View Filter Throughput: 100.0 %</p> <p>PS: Connection Established          RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>

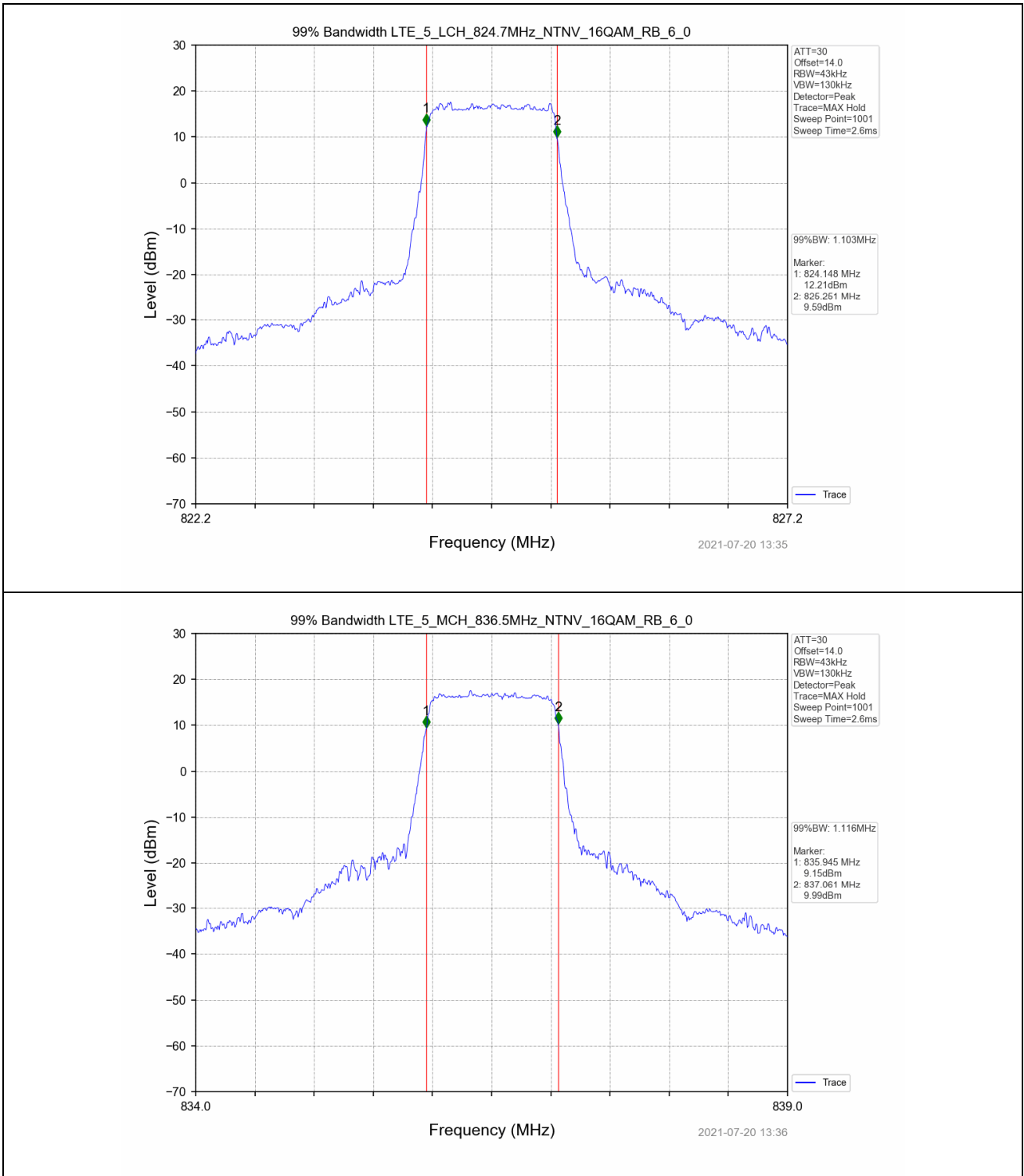
<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 836.5 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20 Out of Tolerance: 0.00 % Detected Modulation: QPSK Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>
<p>CMW 500 V 3.7.172 - LTE Measurement - V3.7.70 - TX Measurement</p> <p>Multi Evaluation PRACH SRS</p> <p>FDD Freq.: 844.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All</p> <p><b>IQ Constellation</b></p>  <p>Statistic Count: 20 / 20 Out of Tolerance: 0.00 % Detected Modulation: QPSK Detected Channel Type: PUSCH View Filter Throughput: 100.0 %</p> <p>PS: Connection Established RRC State: Connected</p> <p>Go To Local Show Remote Screen</p>	<p>LTE</p> <p>Multi Evaluation RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Signaling Parameter</p> <p>LTE Signaling ON</p>

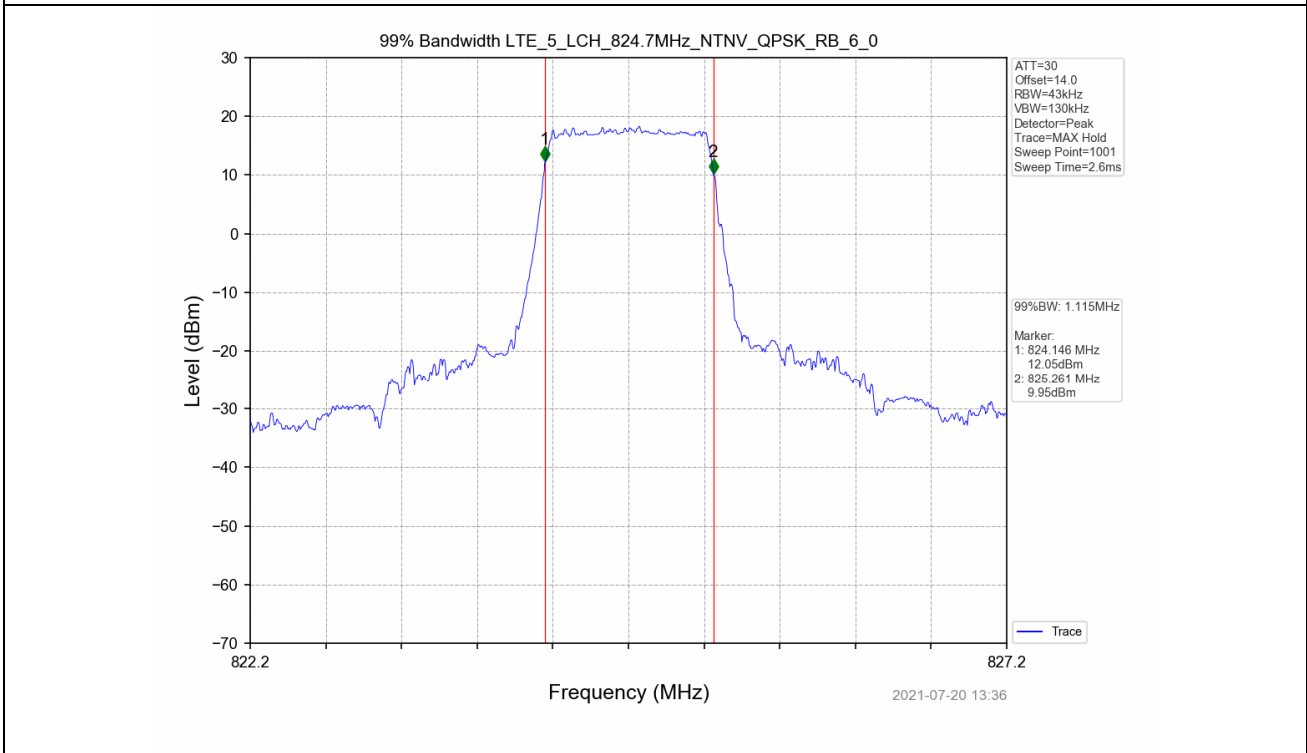
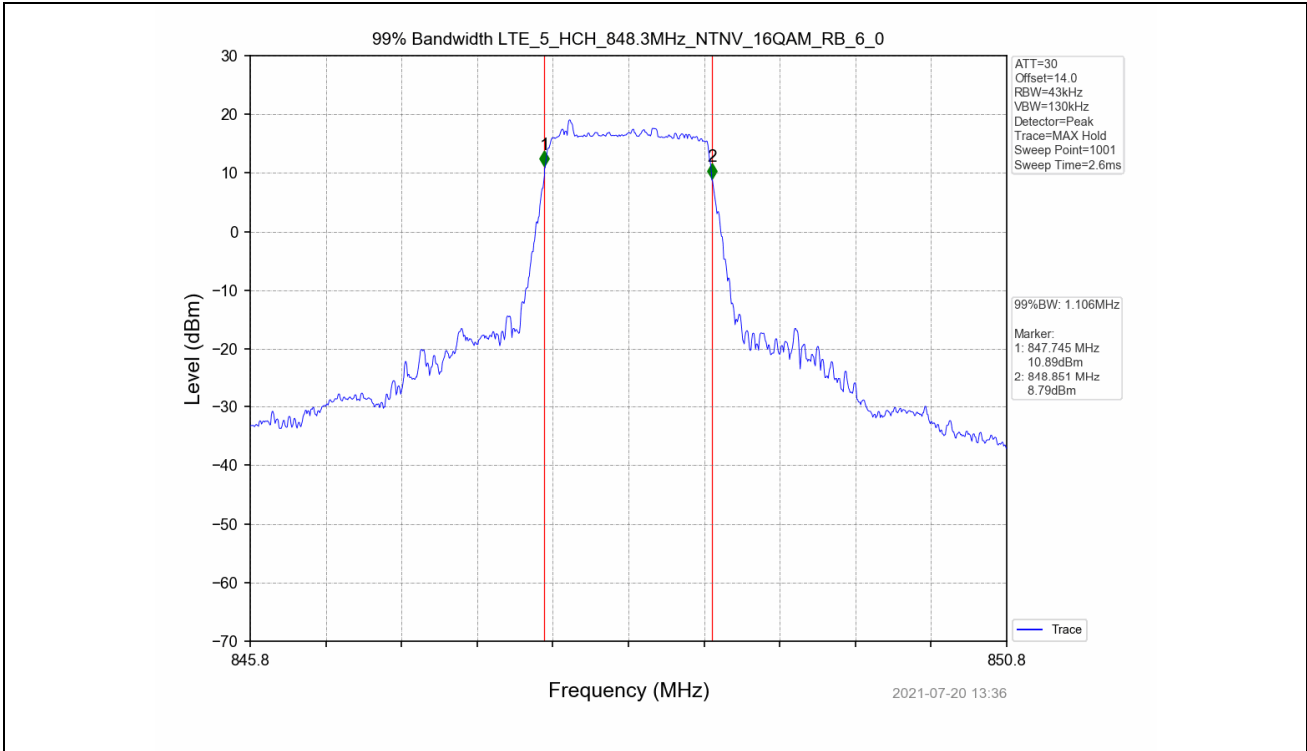
4. 99% & 26dB Bandwidth

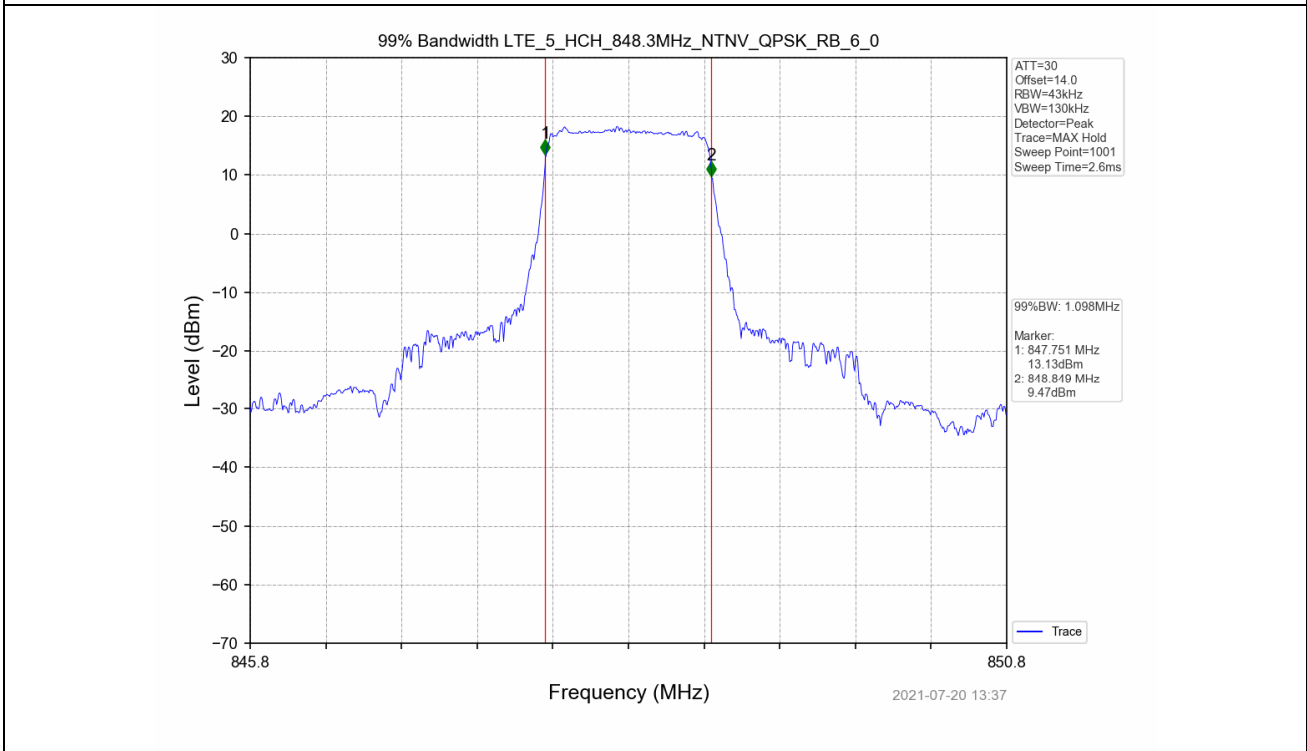
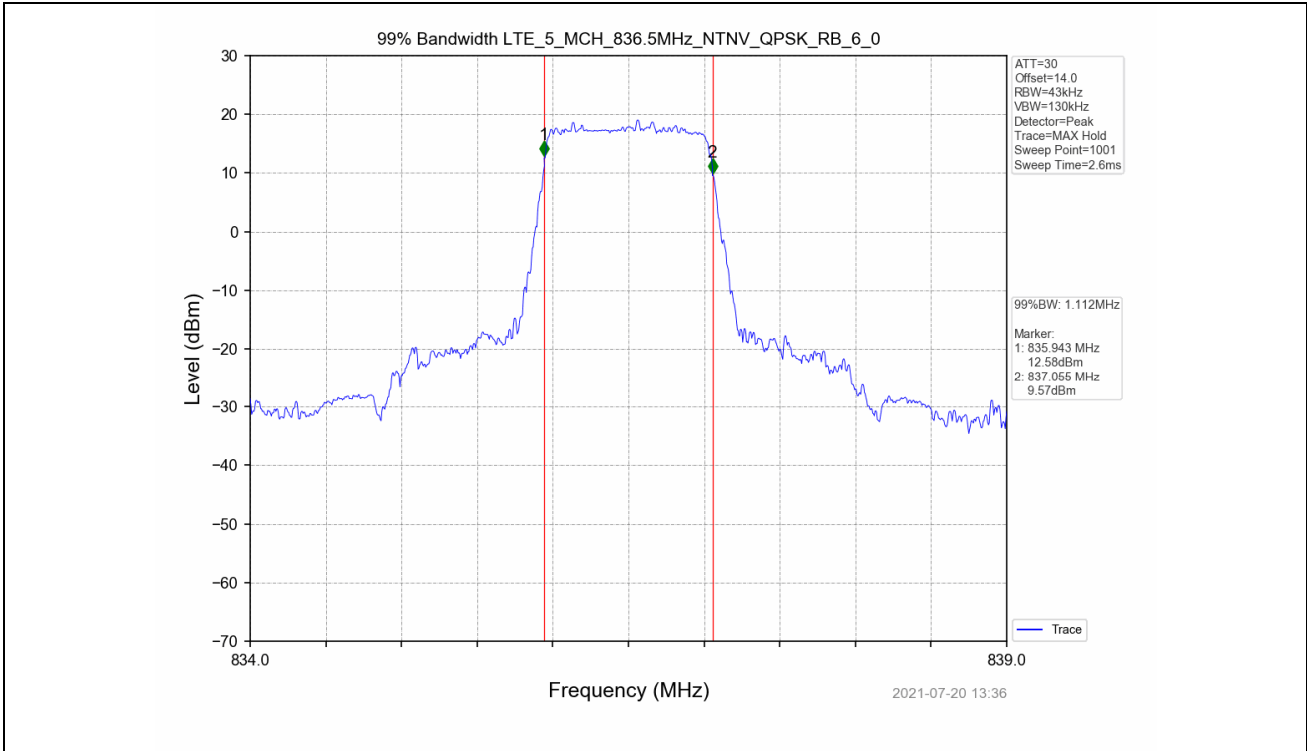
4.1 Test Result

Test Band: 5_ 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.115	1.112	1.098	N/A	PASS
16QAM	6	0	1.103	1.116	1.106	N/A	PASS

4.2 Test Graph

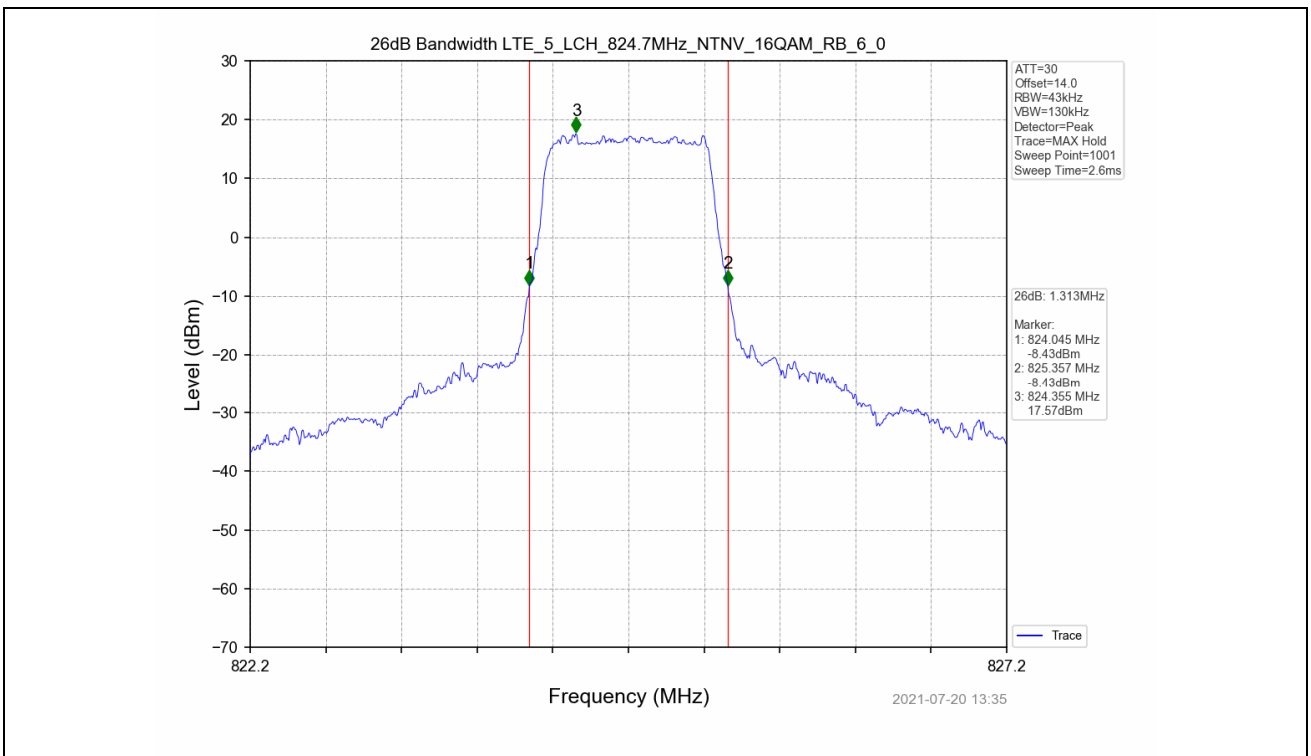


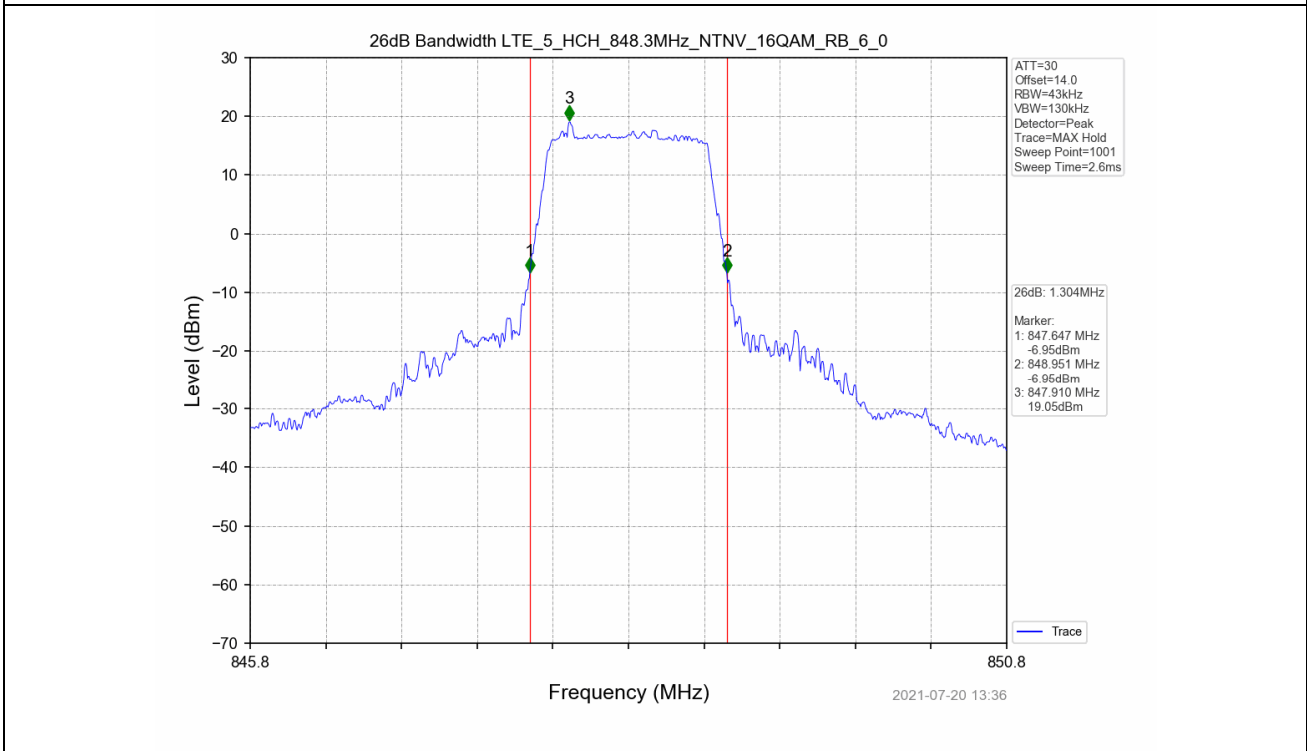
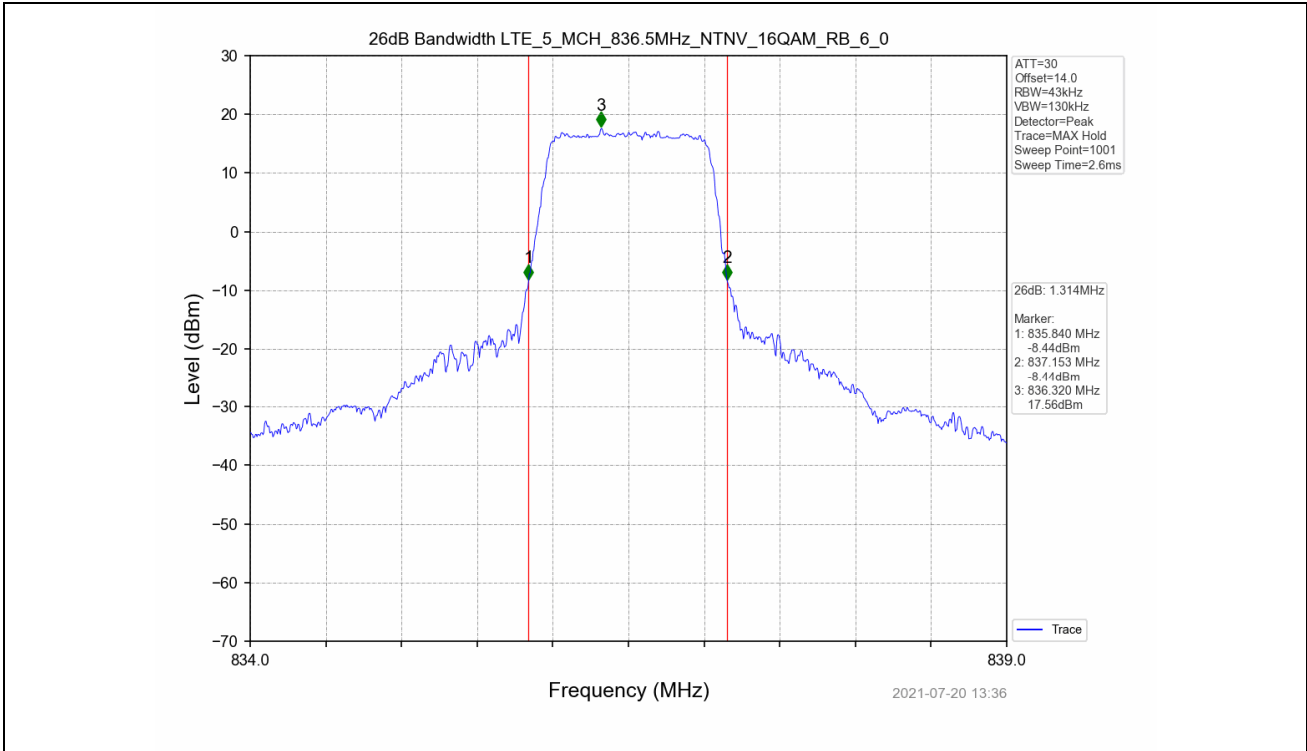




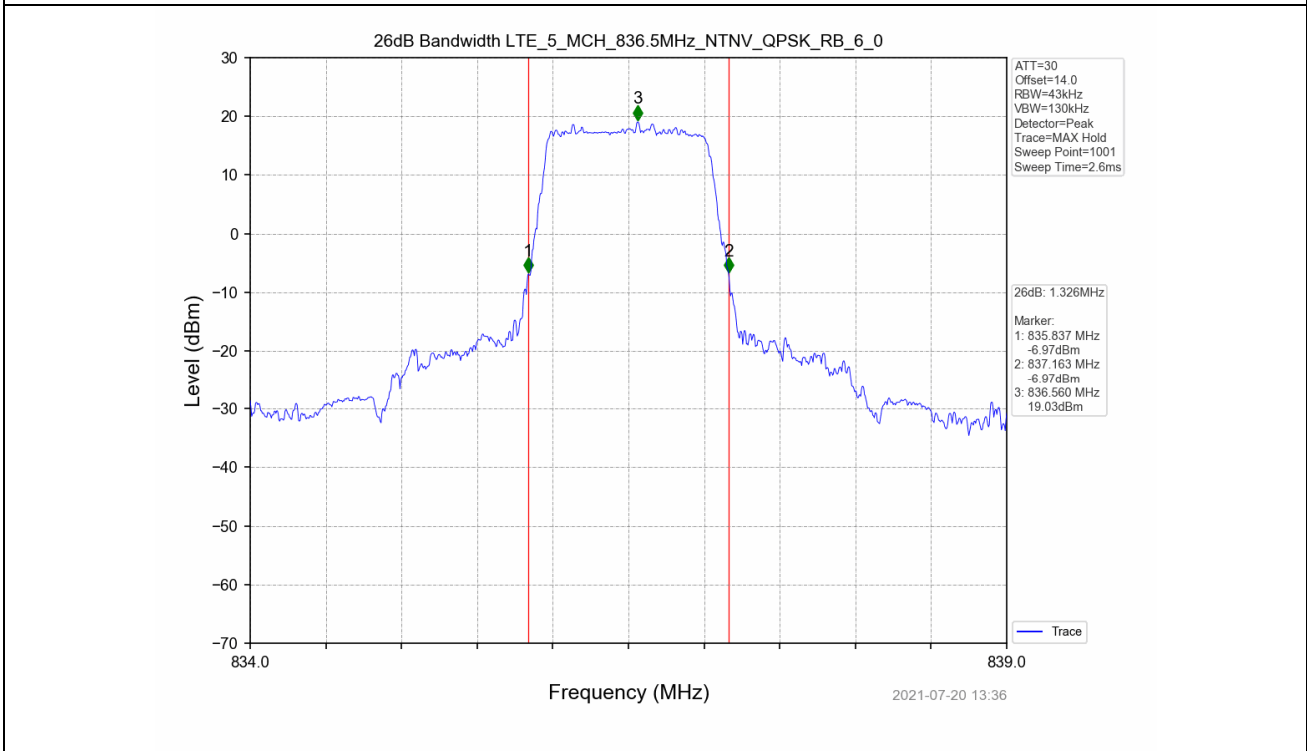
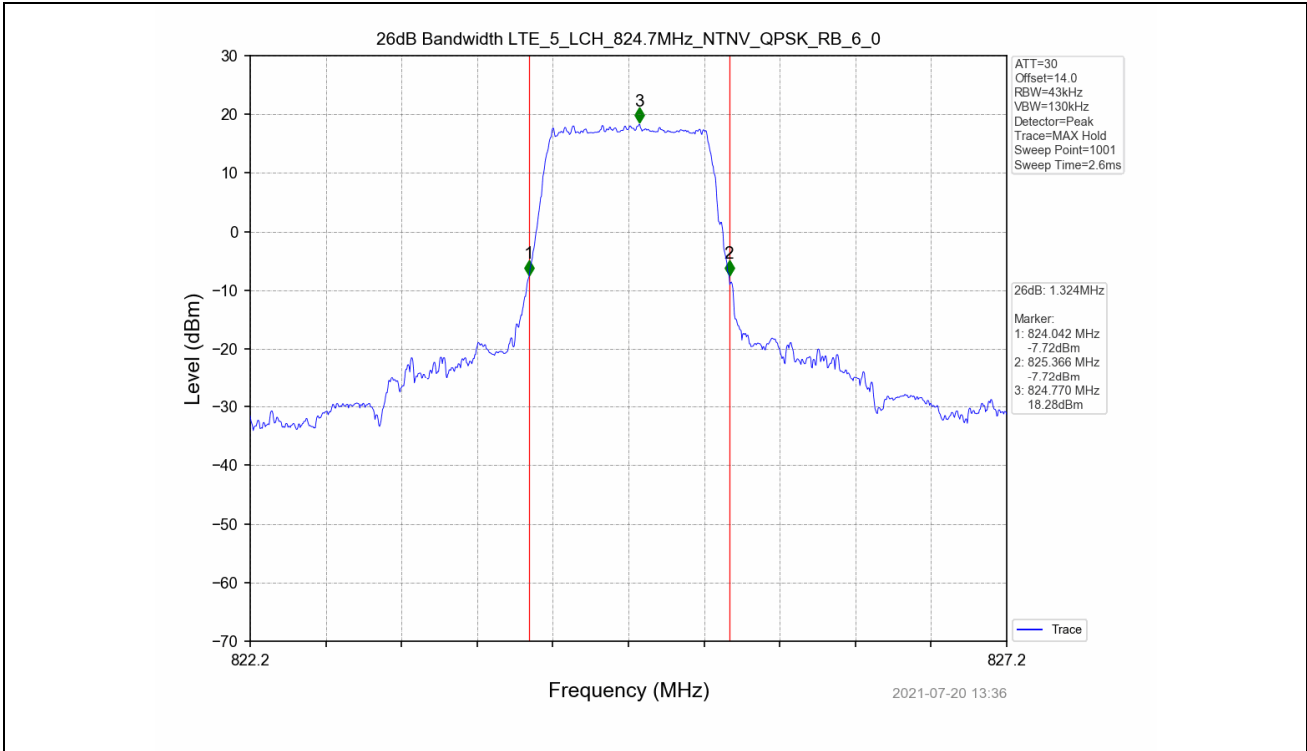
Test Band: 5 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.324	1.326	1.329	N/A	PASS
16QAM	6	0	1.313	1.314	1.304	N/A	PASS

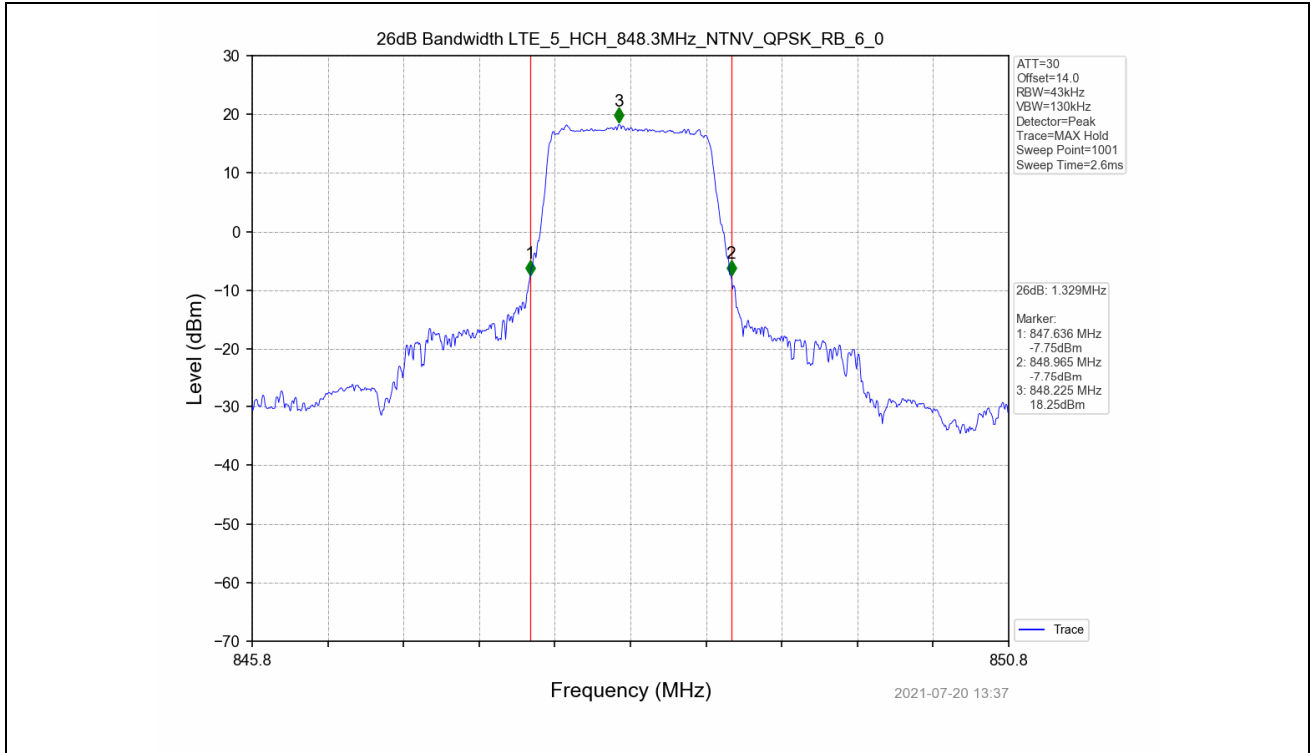
#### 4.2 Test Graph





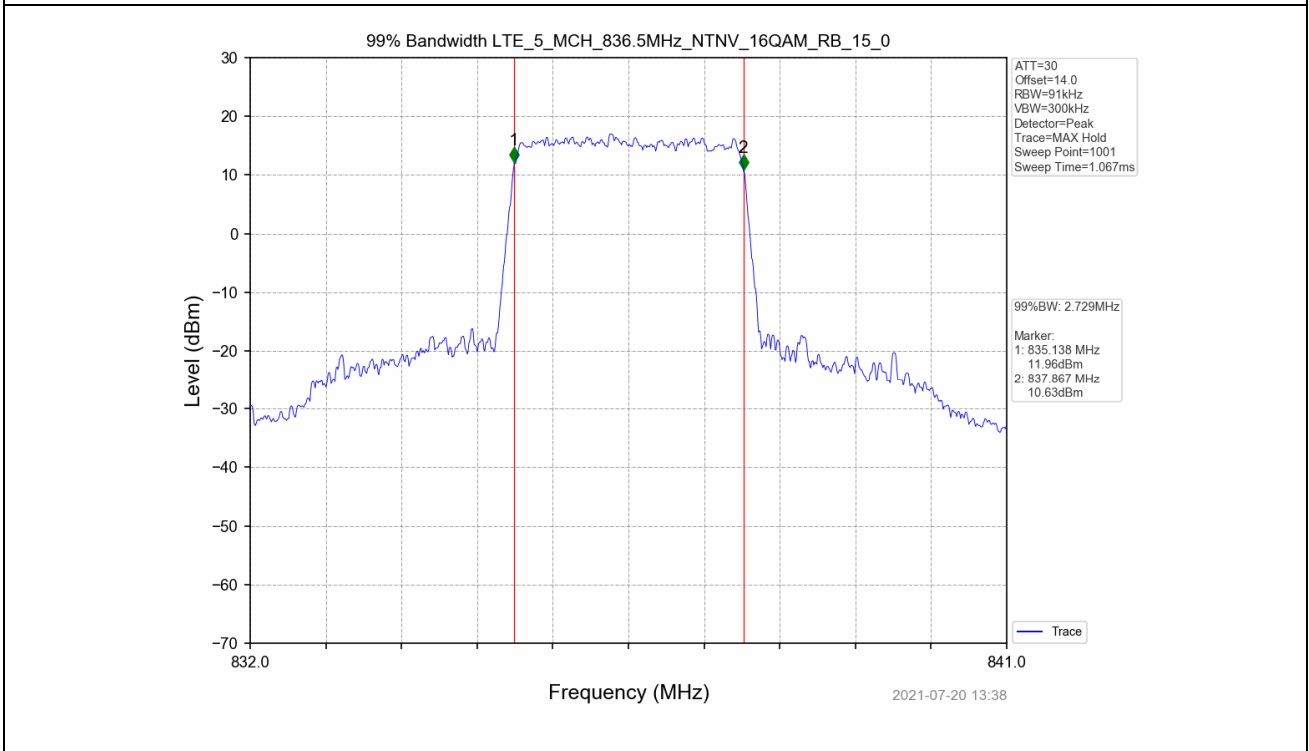
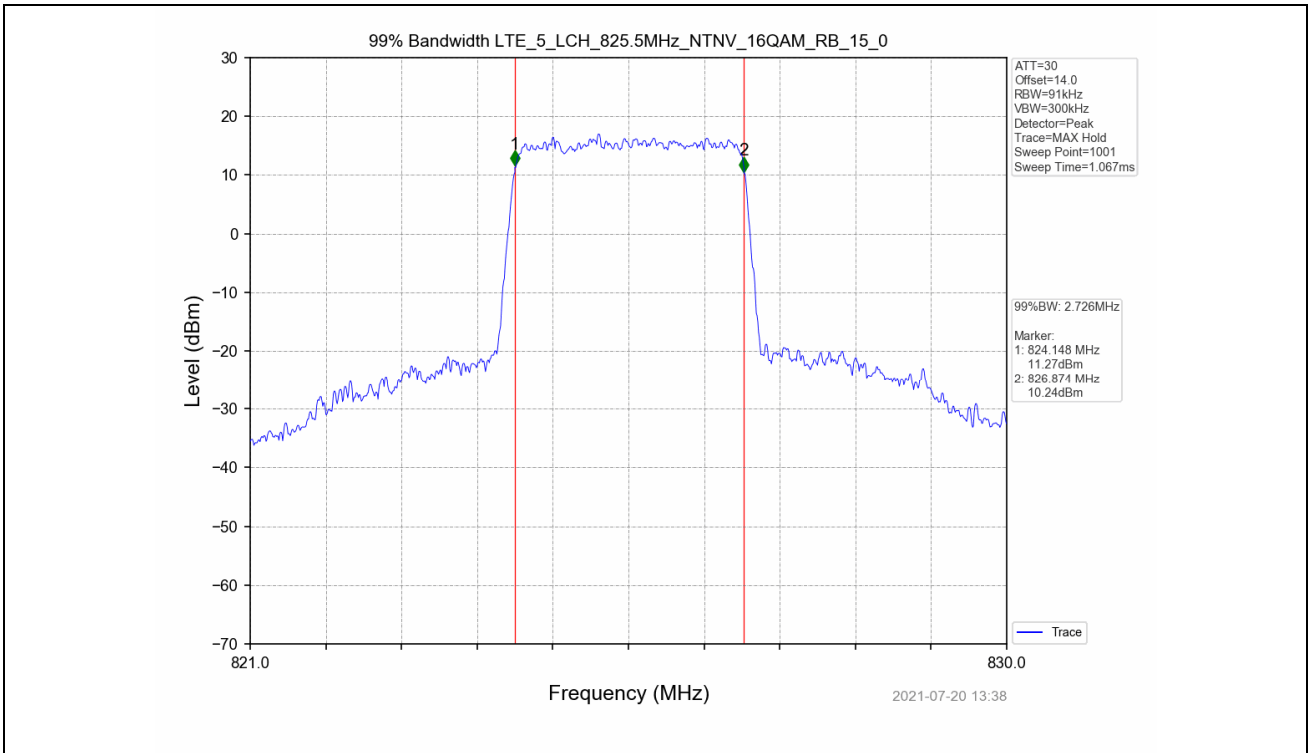


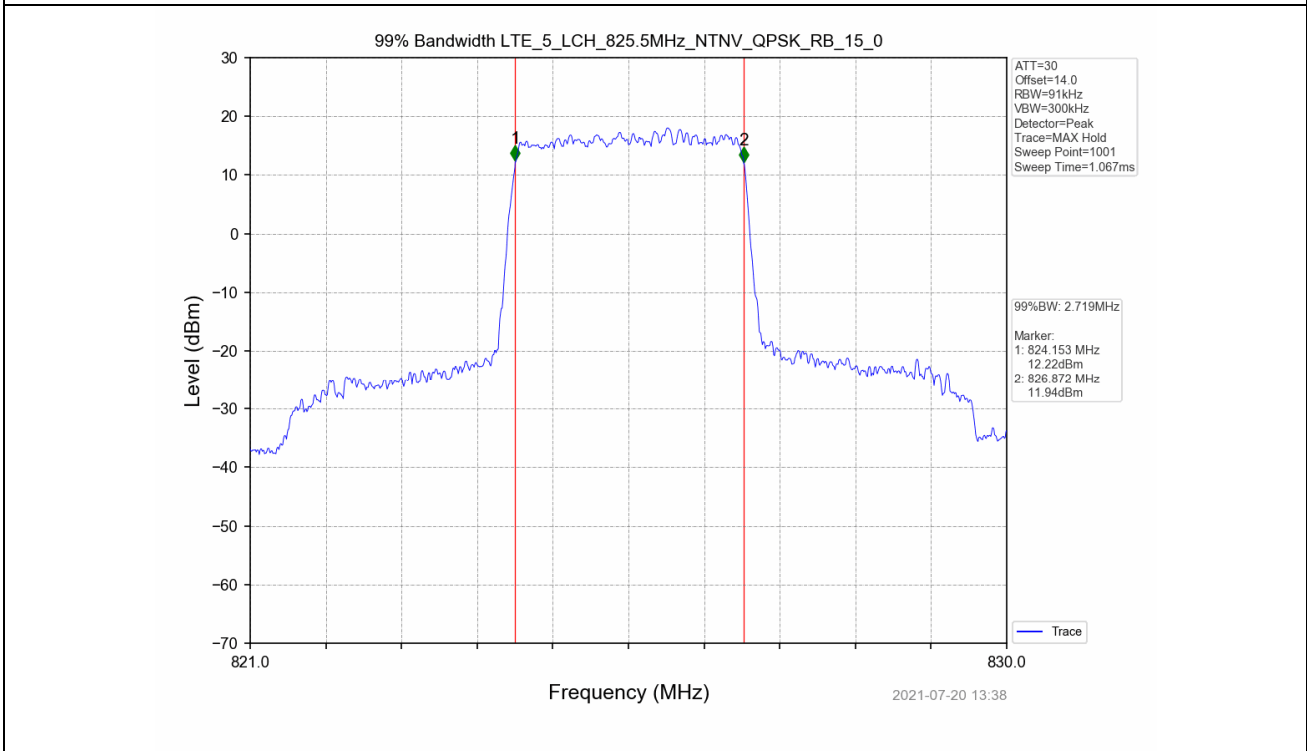
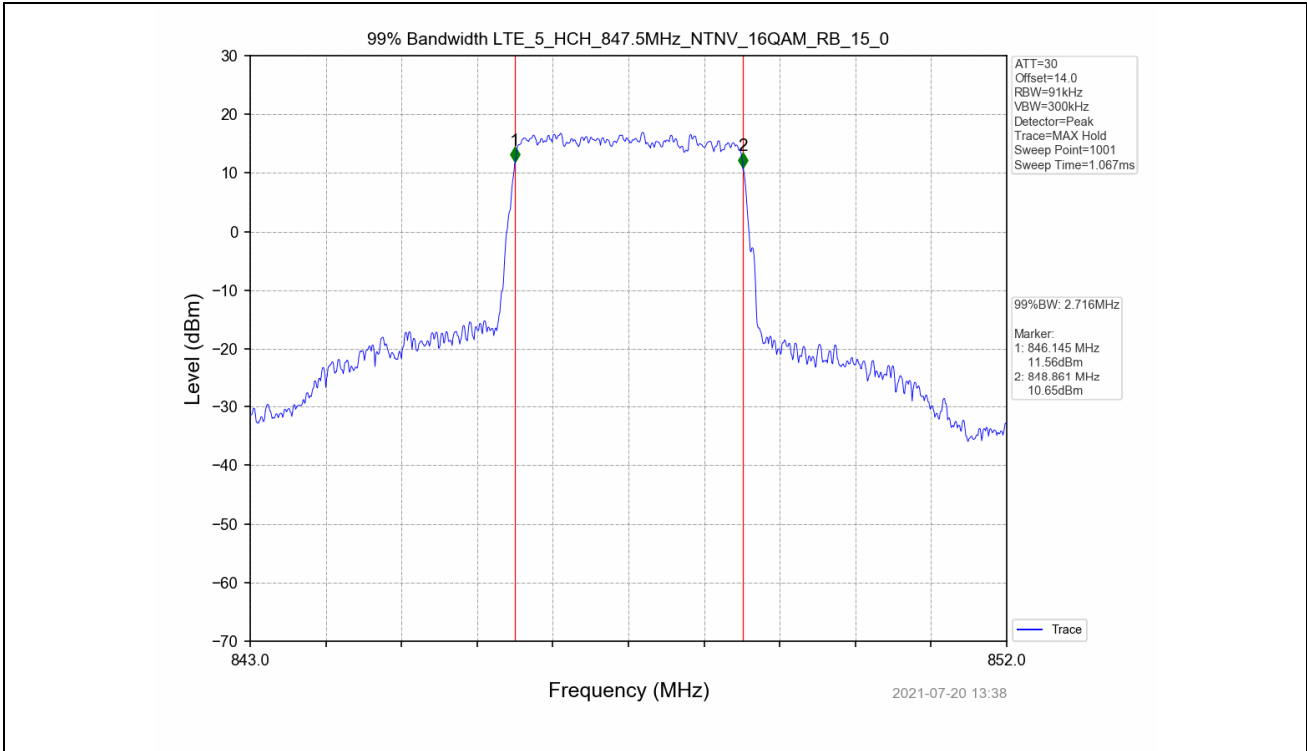


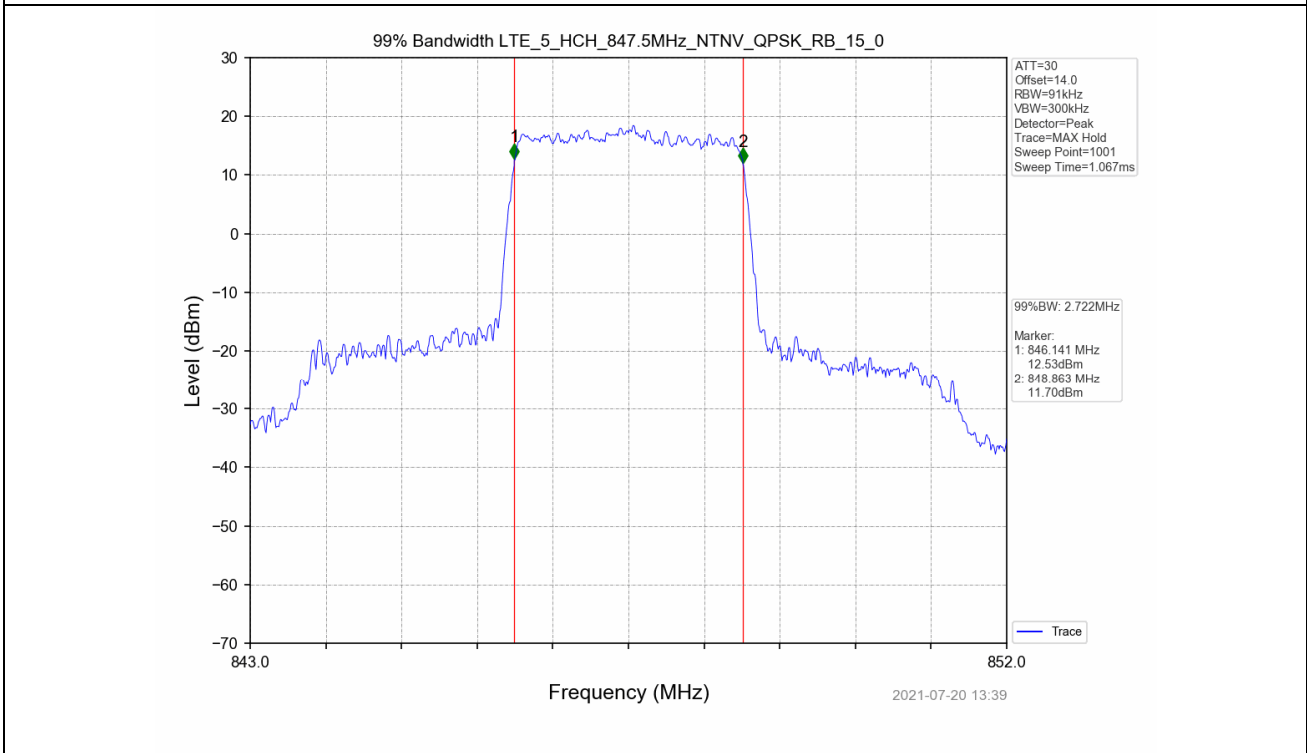
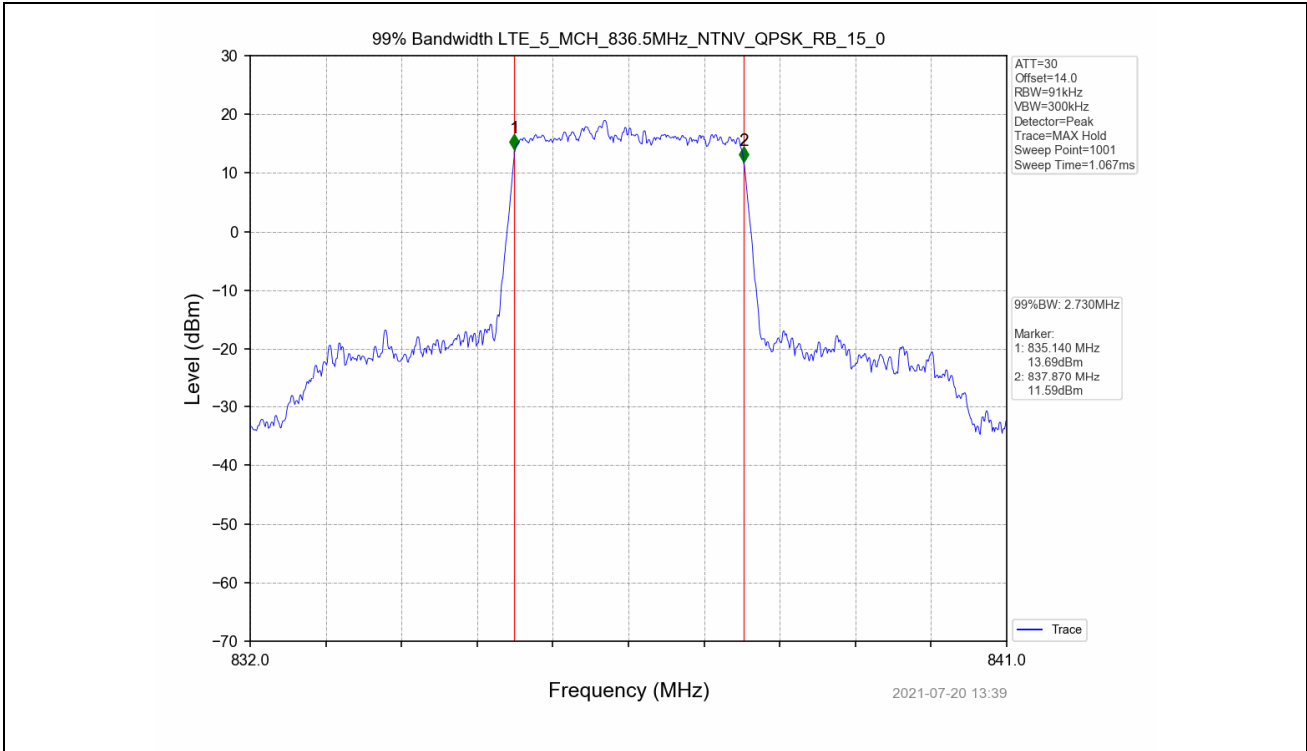


Test Band: 5 3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.719	2.730	2.722	N/A	PASS
16QAM	15	0	2.726	2.729	2.716	N/A	PASS

4.2 Test Graph







Test Band: 5 3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.972	2.986	3.009	N/A	PASS
16QAM	15	0	2.999	3.005	3.003	N/A	PASS

4.2 Test Graph

