

1. Conducted Output Power

Test Result

LTE Band 5 - 1.4MHz

Modulation	RB Allocation		Conducted Power (dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	1	0	19.23	22.79	22.95	38.45	PASS
		2	19.09	23.00	23.02	38.45	PASS
		5	18.59	22.89	22.92	38.45	PASS
	3	0	19.16	22.80	23.17	38.45	PASS
		2	18.90	22.98	23.11	38.45	PASS
		3	18.73	22.98	23.02	38.45	PASS
16QAM	1	0	17.93	21.95	22.08	38.45	PASS
			18.32	22.00	22.12	38.45	PASS
		2	18.13	22.18	22.16	38.45	PASS
	3	5	17.72	22.19	21.93	38.45	PASS
		0	18.29	21.91	22.45	38.45	PASS
		2	18.00	22.05	22.38	38.45	PASS
	6	3	17.88	22.08	22.30	38.45	PASS
		0	16.92	20.94	21.10	38.45	PASS

LTE Band 5 - 3MHz

Modulation	RB Allocation		Conducted Power (dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	1	0	19.17	22.65	26.54	38.45	PASS
		7	18.43	23.01	26.47	38.45	PASS
		14	17.59	23.08	26.18	38.45	PASS
	8	0	17.79	21.80	25.45	38.45	PASS
		4	17.33	22.01	25.41	38.45	PASS
		7	16.97	22.08	25.27	38.45	PASS
16QAM	15		17.93	21.97	25.36	38.45	PASS
		0	18.48	22.28	22.49	38.45	PASS
		7	17.65	22.76	22.46	38.45	PASS
	1	14	16.79	22.86	22.09	38.45	PASS
		0	16.78	20.99	21.43	38.45	PASS
		4	16.37	21.24	21.41	38.45	PASS
	8	7	15.97	21.32	21.30	38.45	PASS
		0	16.33	21.10	21.34	38.45	PASS

LTE Band 5 - 5MHz

Modulation	RB Allocation		Conducted Power (dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	1	0	23.12	26.24	26.65	38.45	PASS
		13	21.99	26.71	26.53	38.45	PASS
		24	22.76	26.73	26.20	38.45	PASS
	12	0	21.53	25.53	25.75	38.45	PASS
		6	21.17	25.75	25.66	38.45	PASS
		13	21.25	25.72	25.42	38.45	PASS
16QAM	1	0	21.39	25.61	25.59	38.45	PASS
			18.11	25.63	25.61	38.45	PASS
		13	16.71	26.04	25.53	38.45	PASS
	12	24	17.25	26.04	25.15	38.45	PASS
		0	16.28	24.60	24.75	38.45	PASS
		6	20.20	24.81	24.65	38.45	PASS
	25	13	20.20	24.77	24.42	38.45	PASS
		0	20.41	24.63	24.65	38.45	PASS

LTE Band 5 - 10MHz

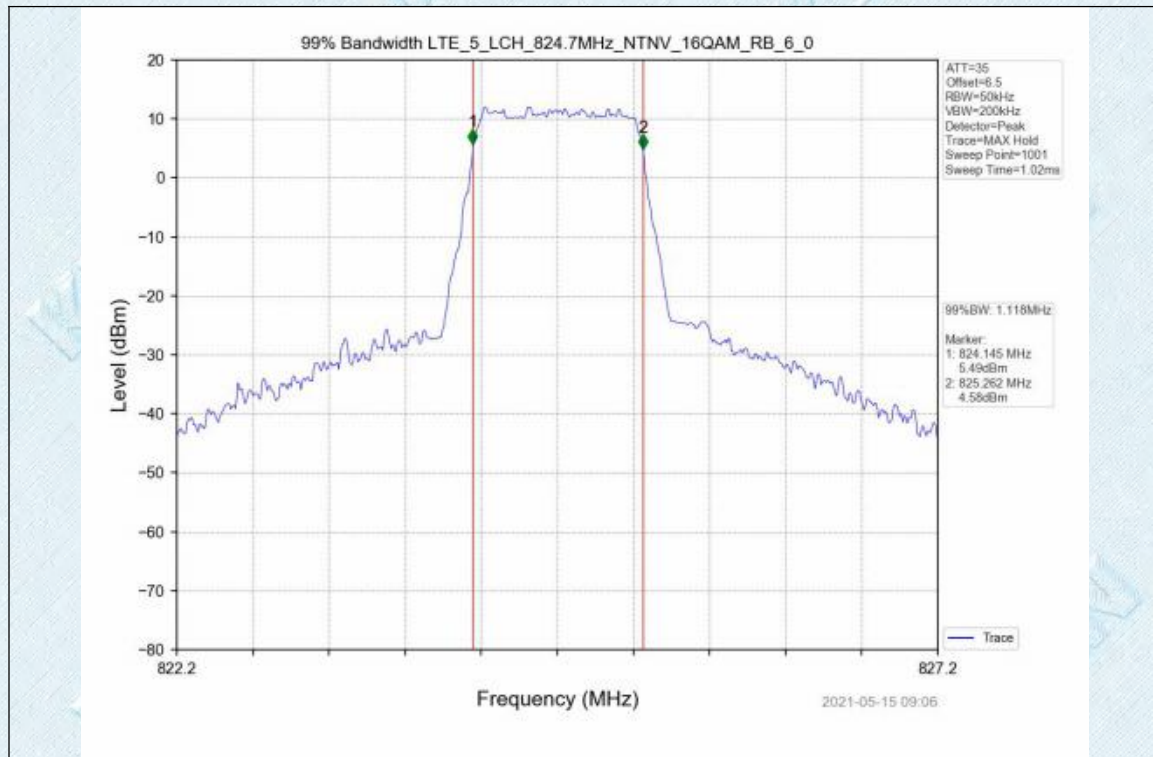
Modulation	RB Allocation		Conducted Power (dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	1	0	19.18	21.33	23.39	38.45	PASS
		25	18.94	23.11	23.63	38.45	PASS
		49	21.91	23.49	22.90	38.45	PASS
	25	0	17.12	21.32	22.64	38.45	PASS
		13	17.91	22.01	22.58	38.45	PASS
		25	19.49	22.39	22.16	38.45	PASS
16QAM	1	0	18.36	21.92	22.49	38.45	PASS
			18.36	20.25	22.74	38.45	PASS
		25	18.18	22.18	22.91	38.45	PASS
	25	49	21.23	22.69	22.38	38.45	PASS
		0	16.04	20.46	21.66	38.45	PASS
		13	16.93	21.11	21.57	38.45	PASS
	50	25	18.37	21.54	21.19	38.45	PASS
		0	17.26	20.99	21.46	38.45	PASS

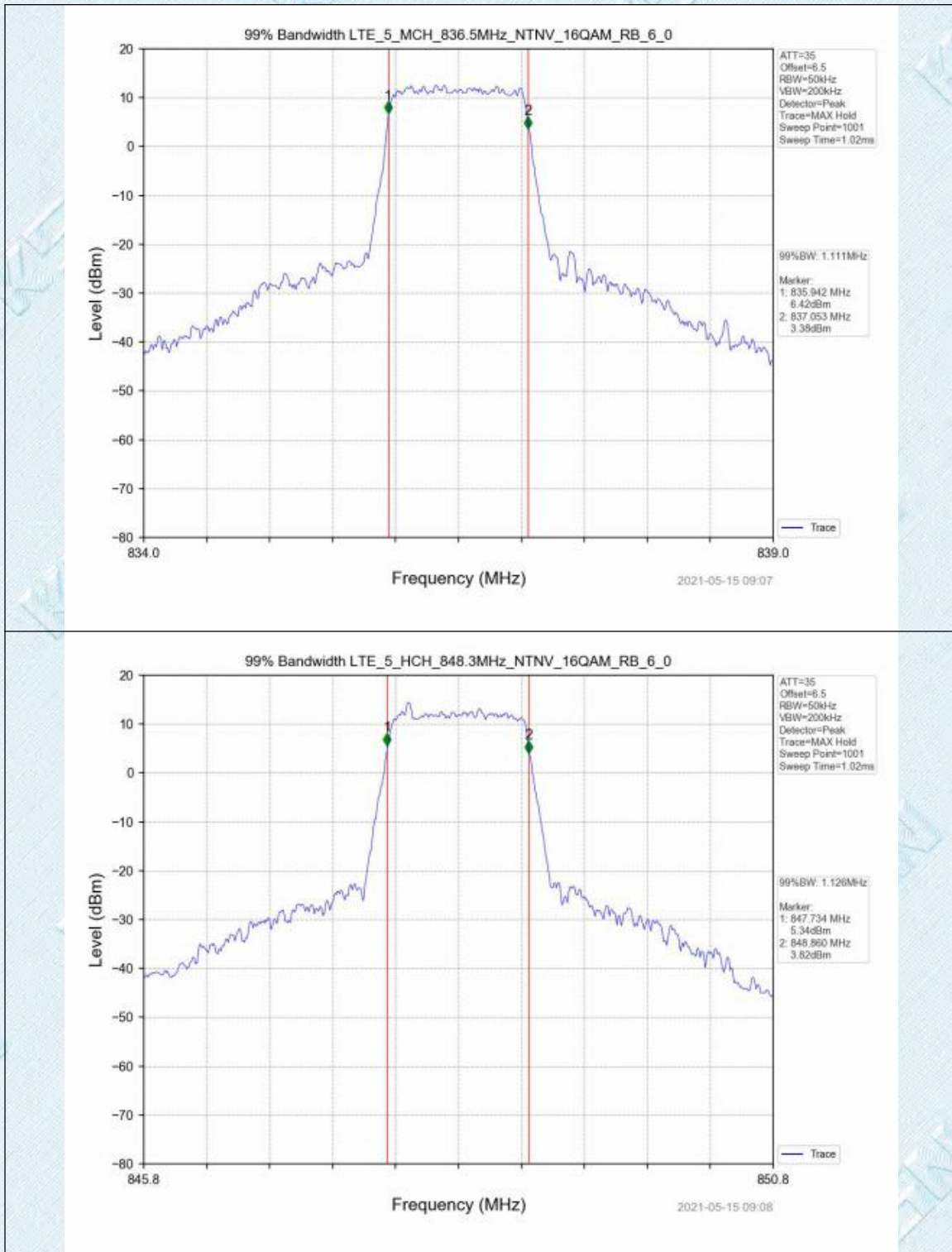
2. 99% & 26dB Bandwidth

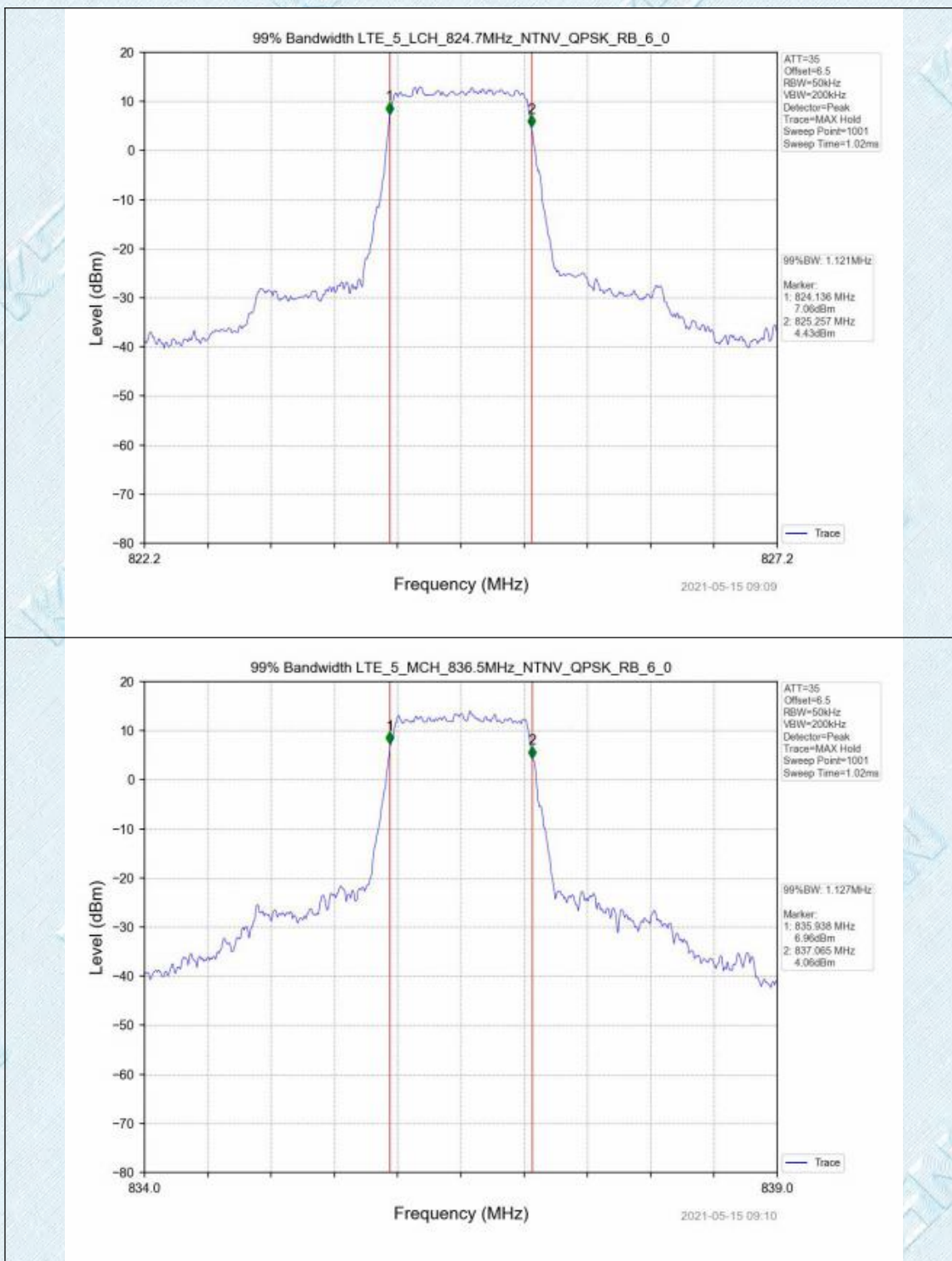
Test Result

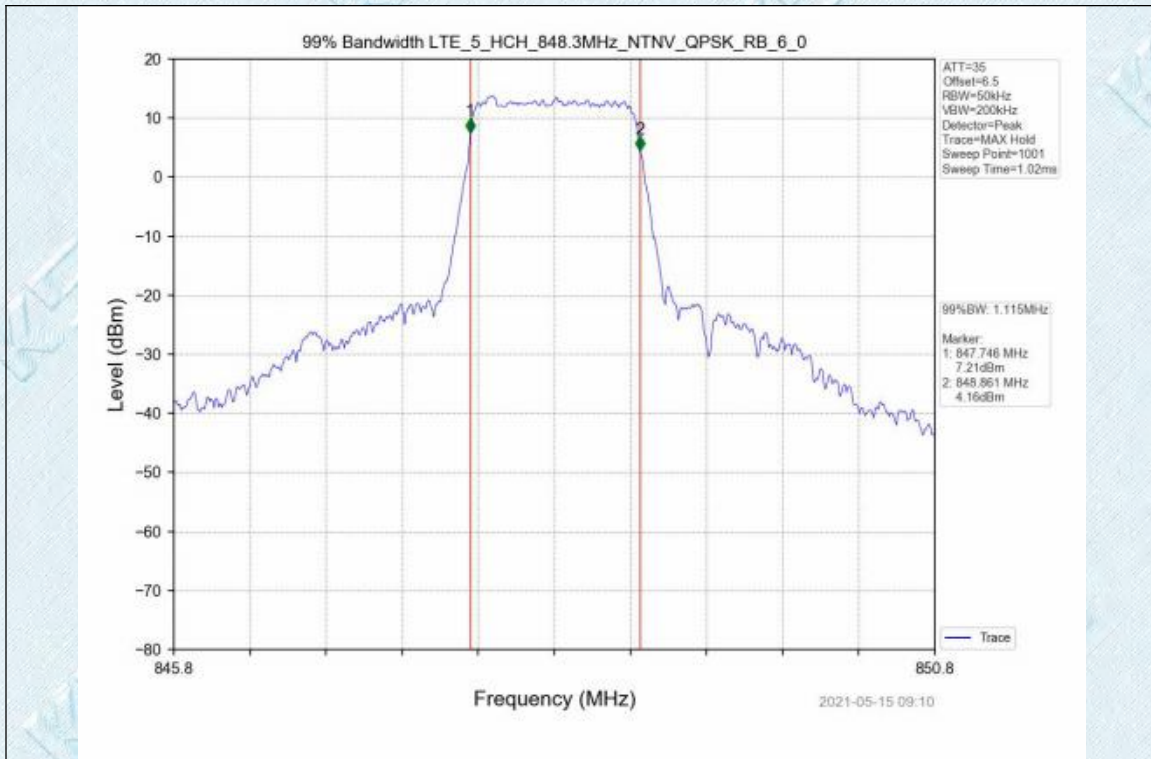
Test Band: 5 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.121	1.127	1.115	N/A	PASS
16QAM	6	0	1.118	1.111	1.126	N/A	PASS

Test Graph



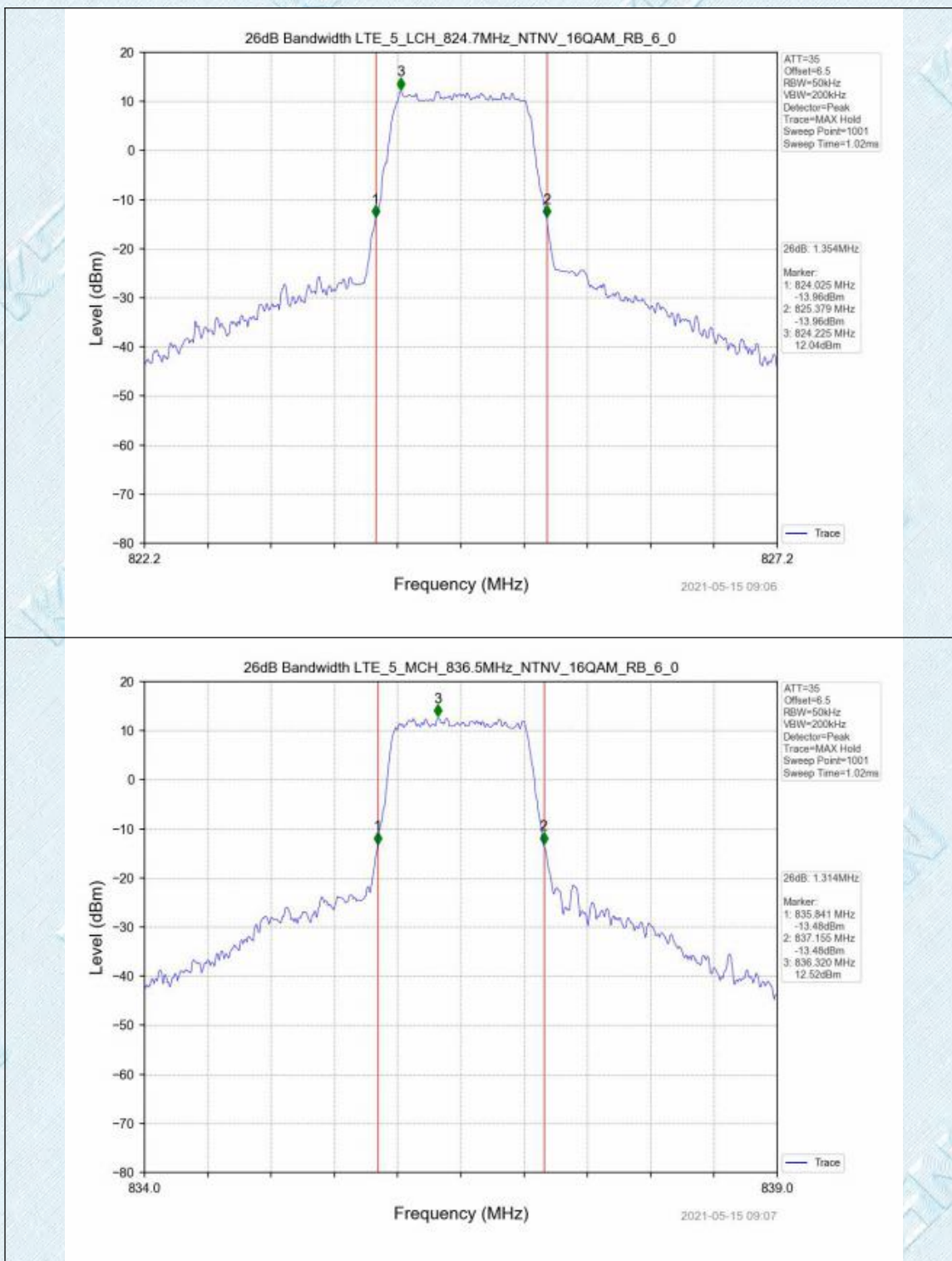


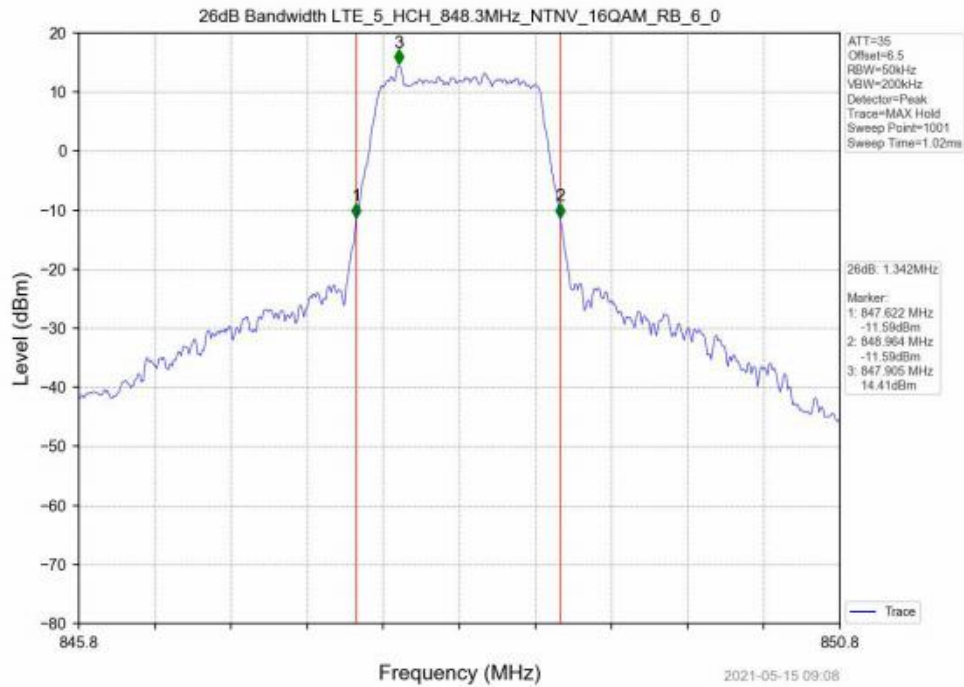
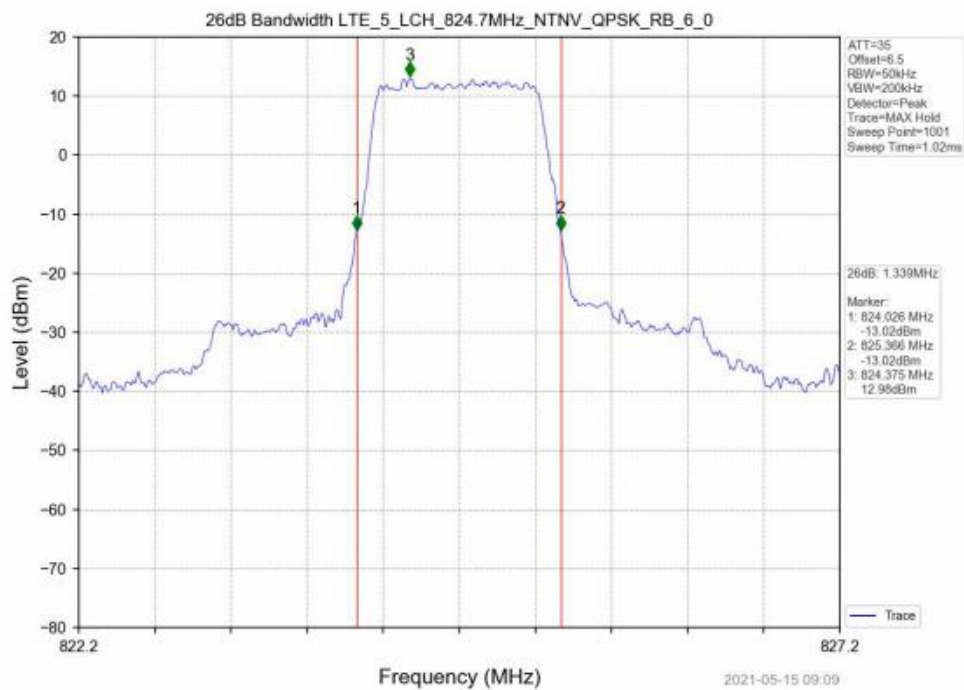


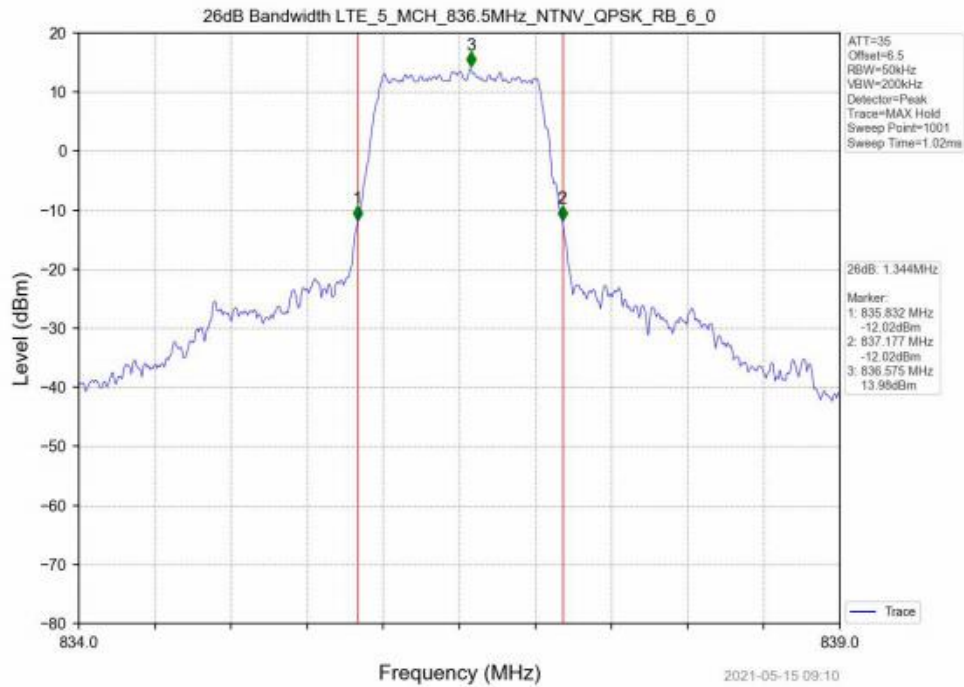
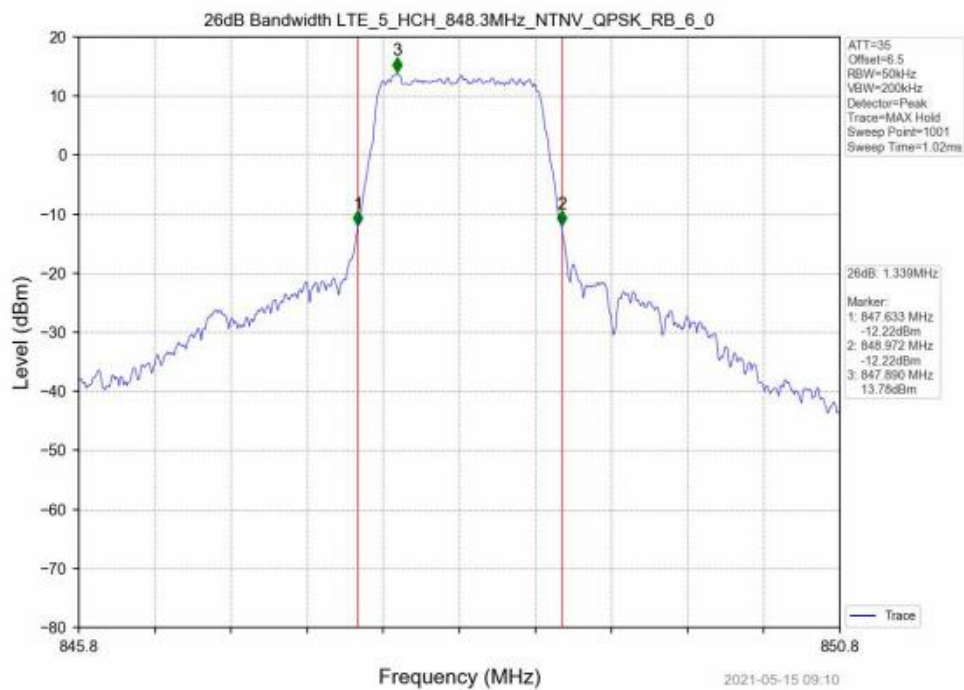


Test Band: 5 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.339	1.344	1.339	N/A	PASS
16QAM	6	0	1.354	1.314	1.342	N/A	PASS

Test Graph

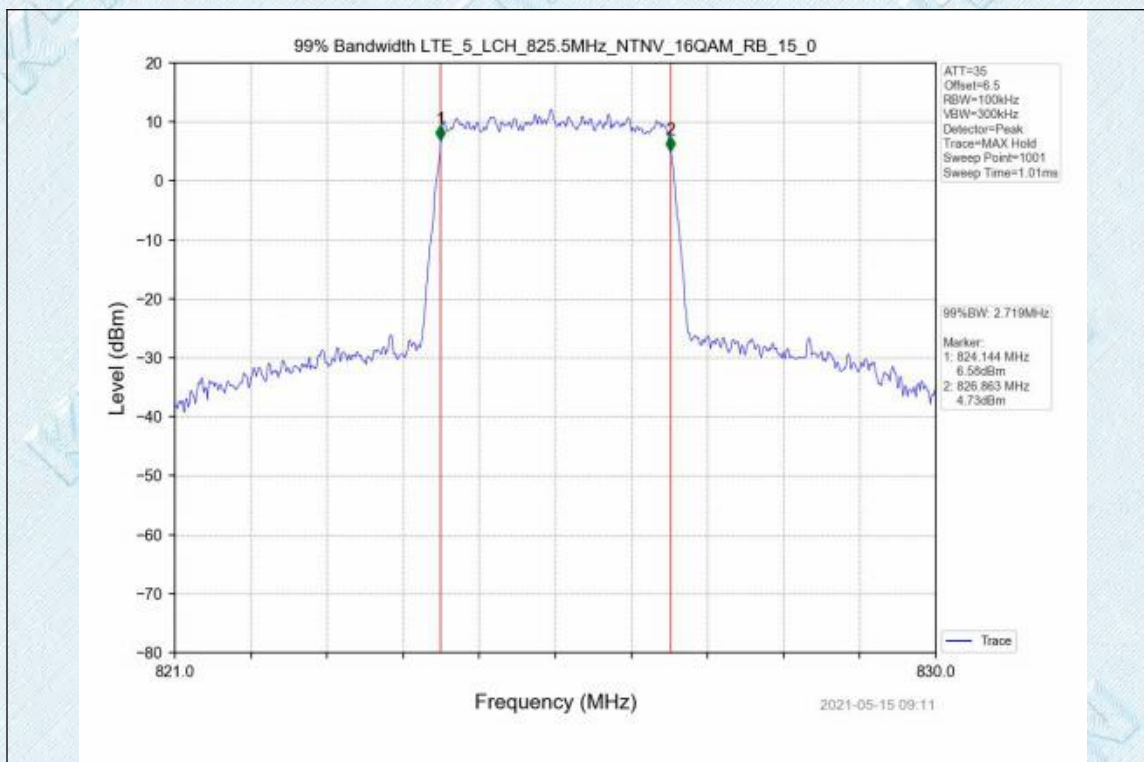


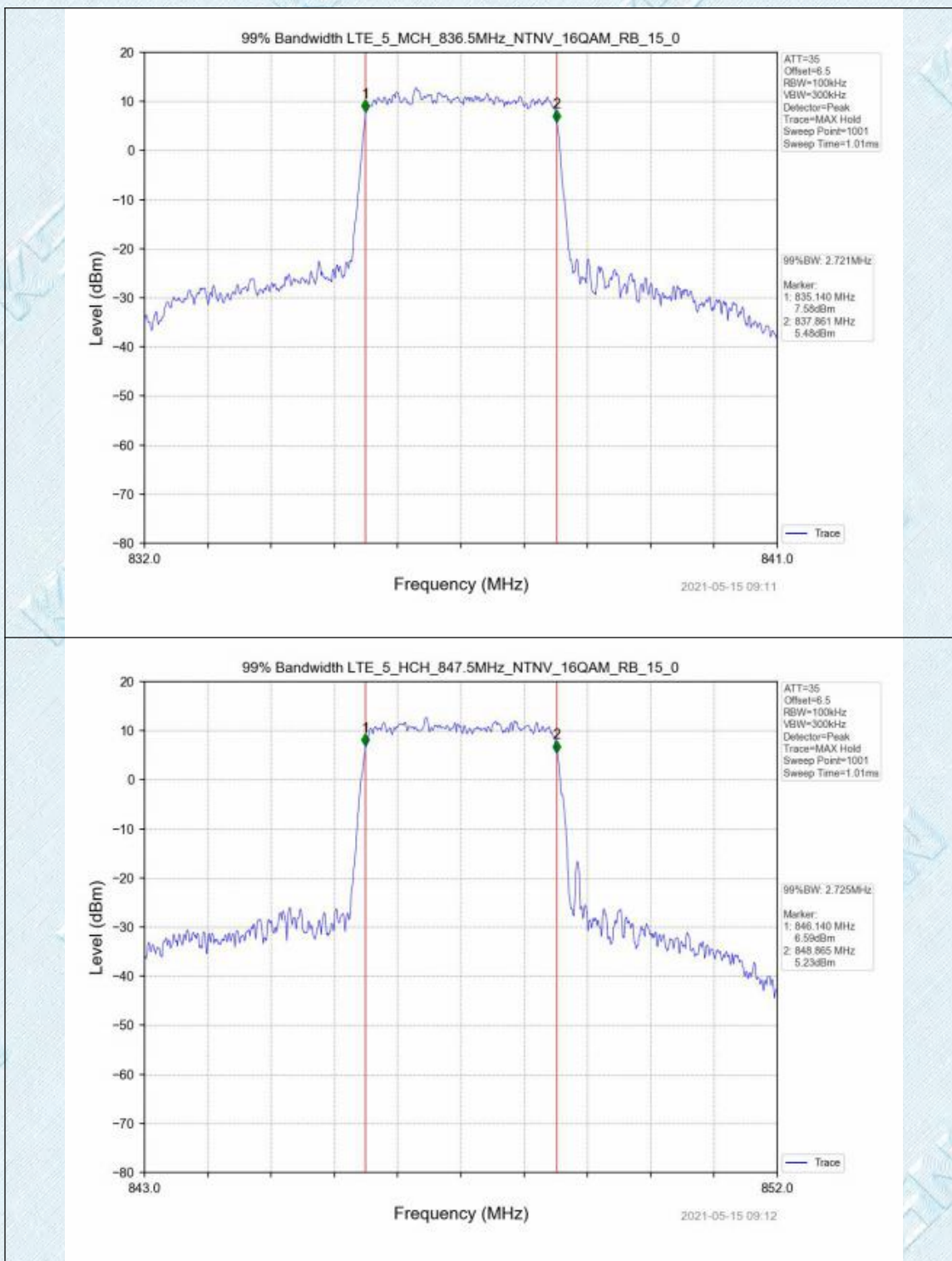


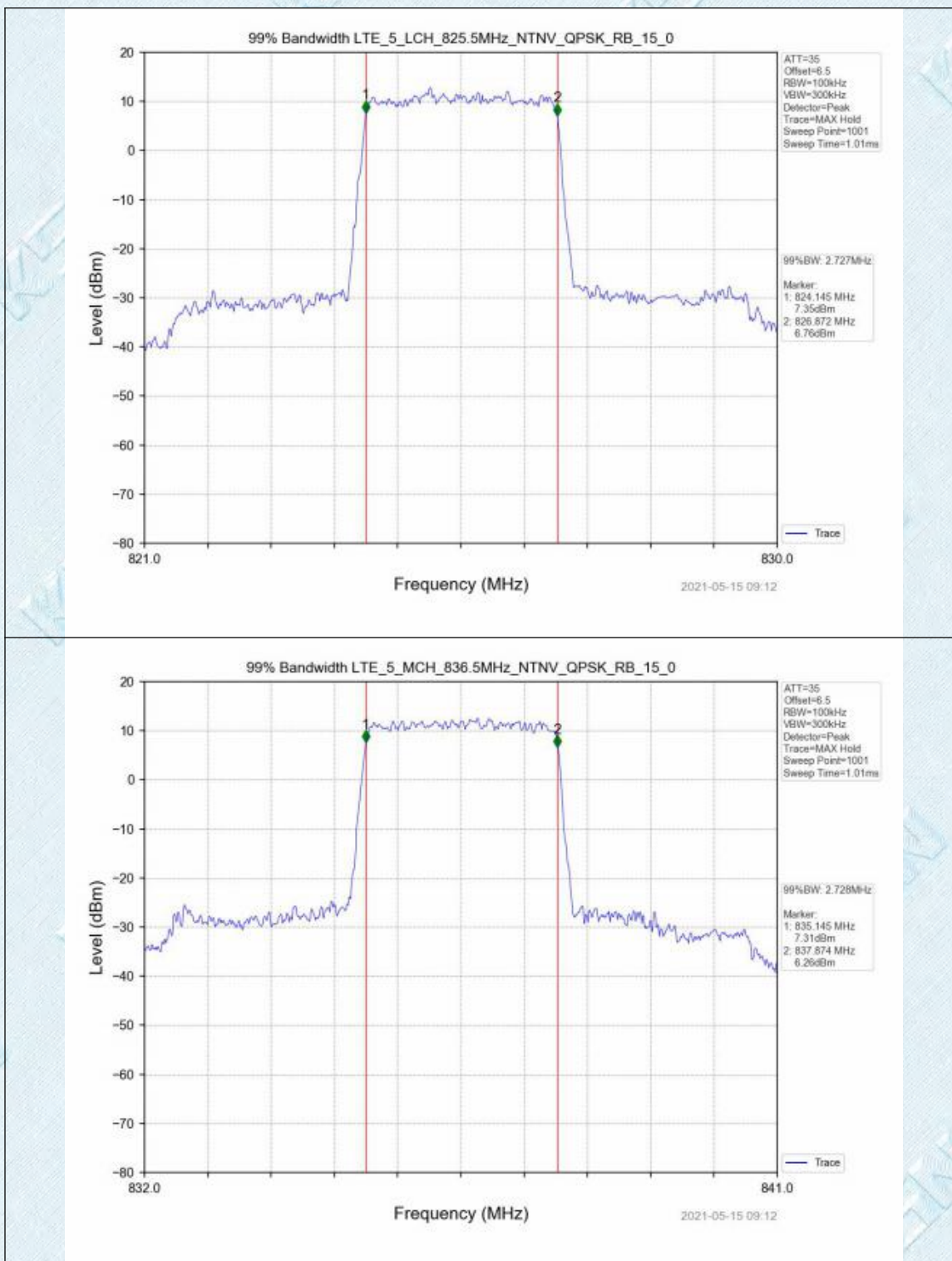


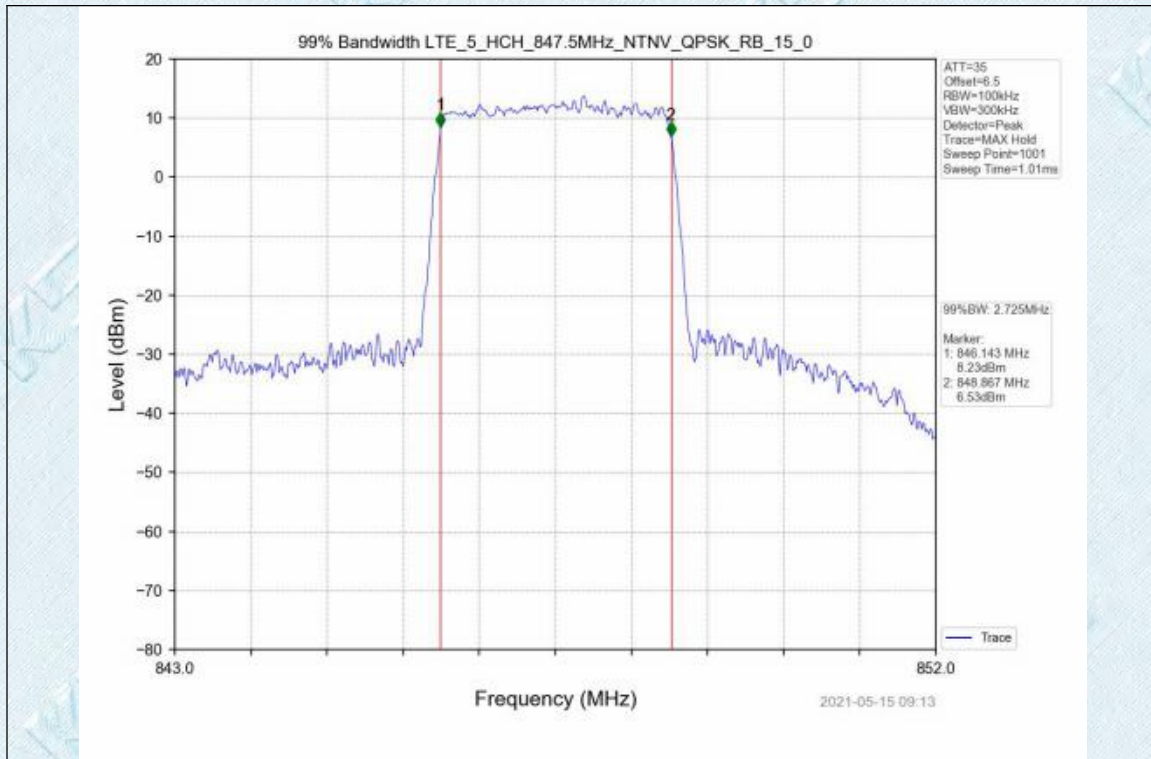
Test Band: 5_3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.727	2.728	2.725	N/A	PASS
16QAM	15	0	2.719	2.721	2.725	N/A	PASS

Test Graph



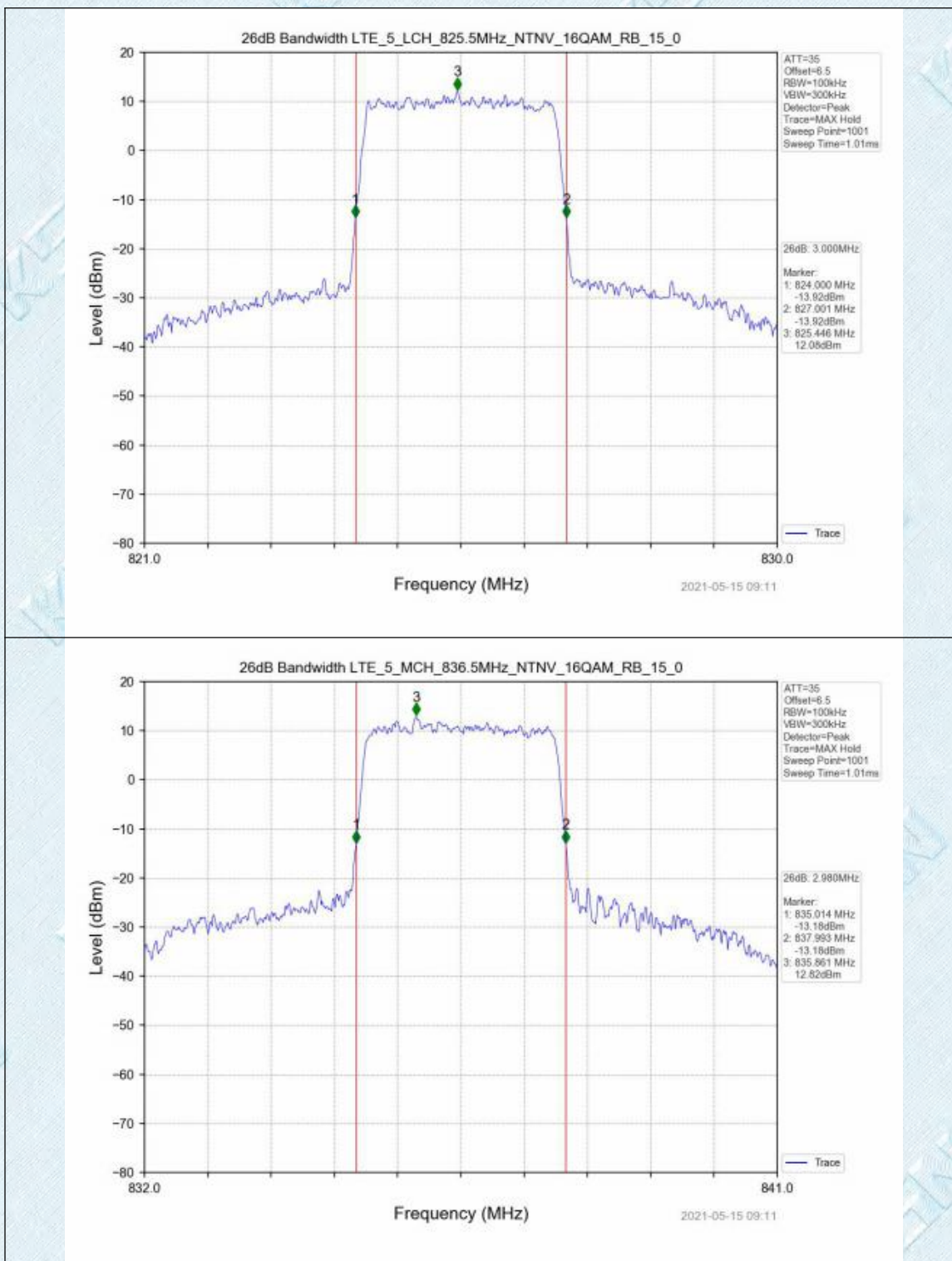


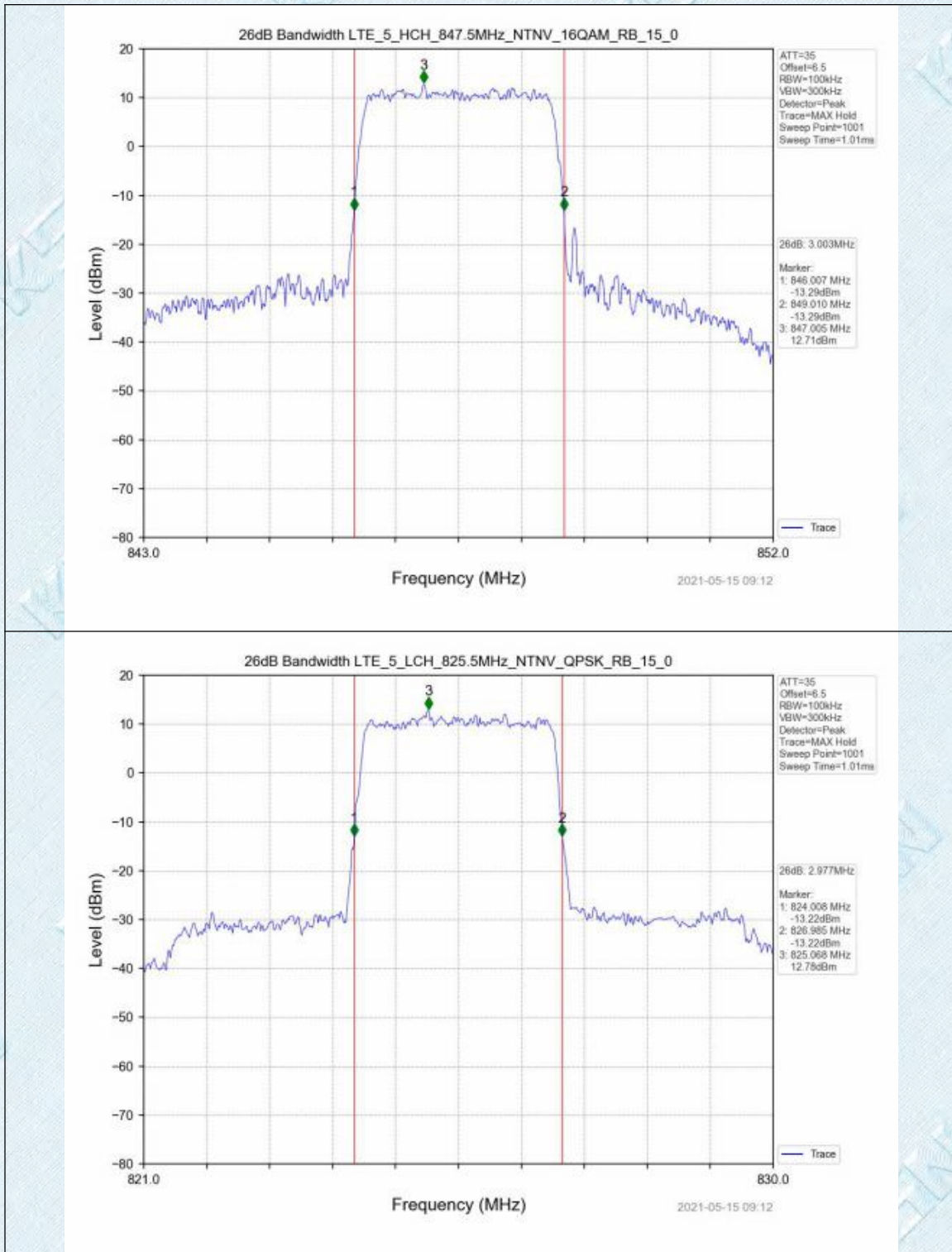


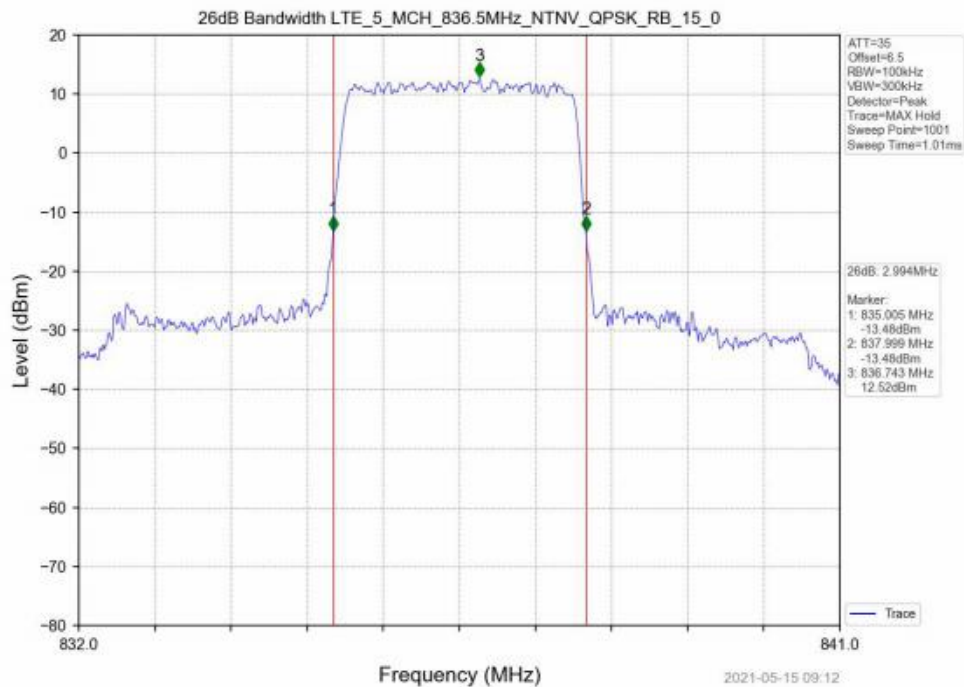
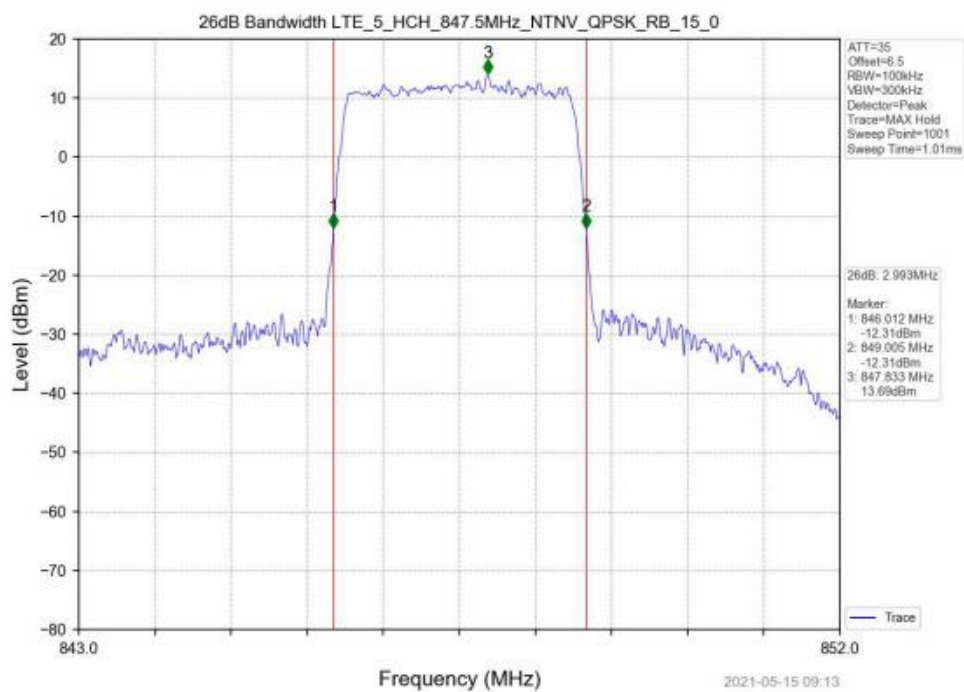


Test Band: 5 3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.977	2.994	2.993	N/A	PASS
16QAM	15	0	3.000	2.980	3.003	N/A	PASS

Test Graph

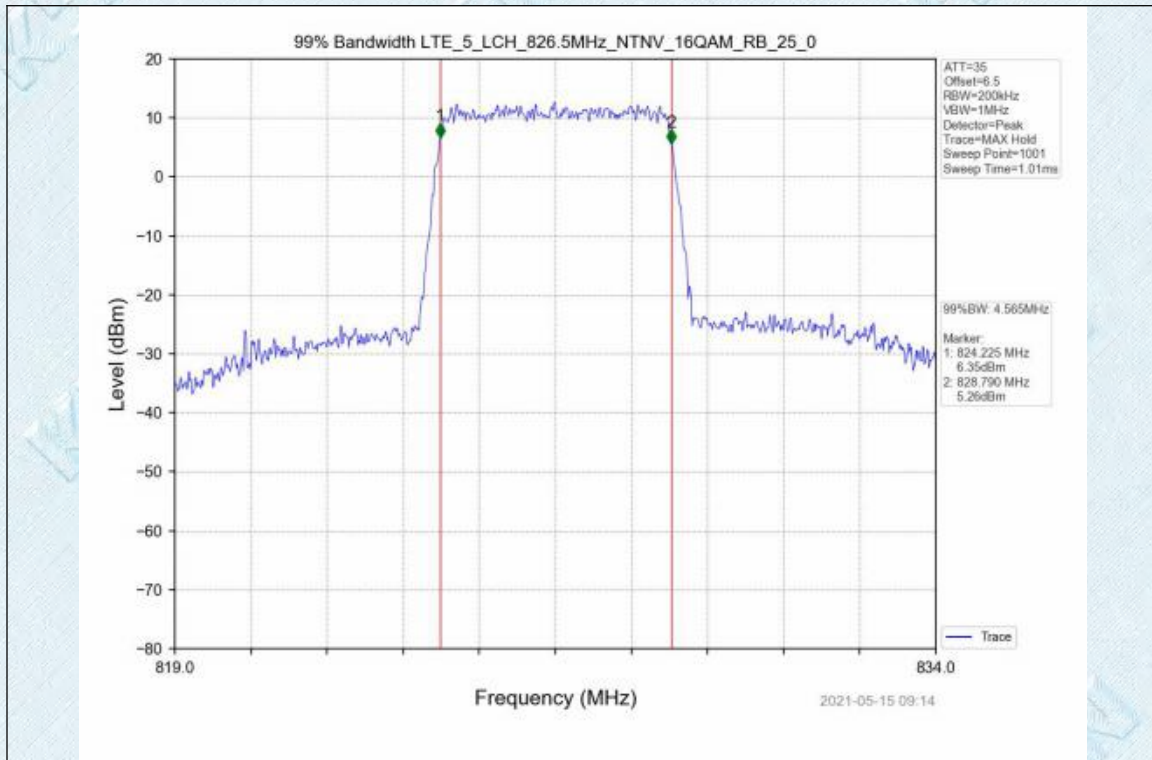


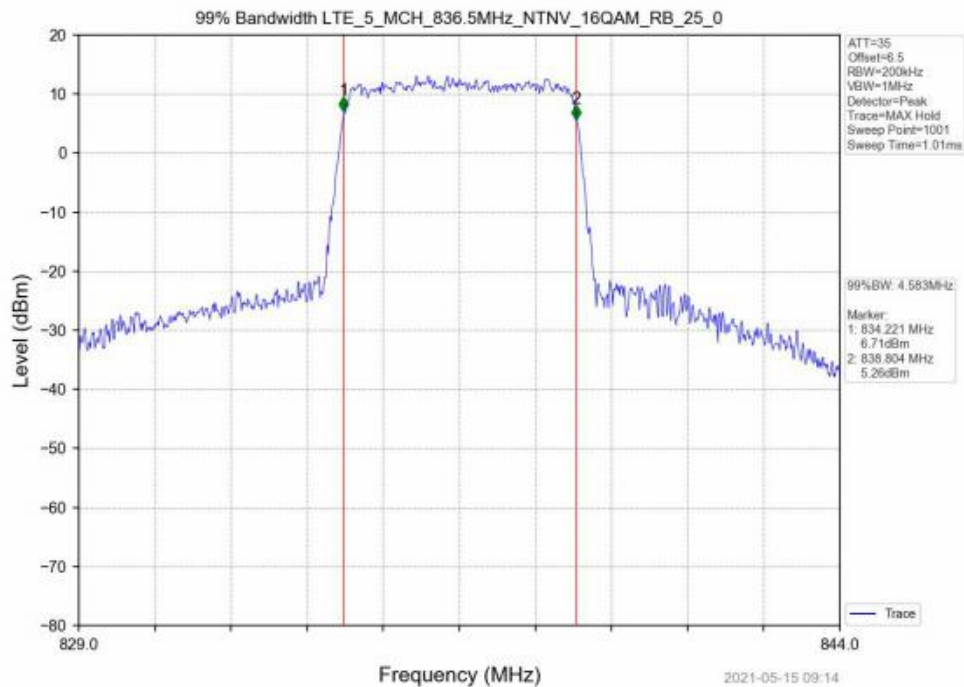
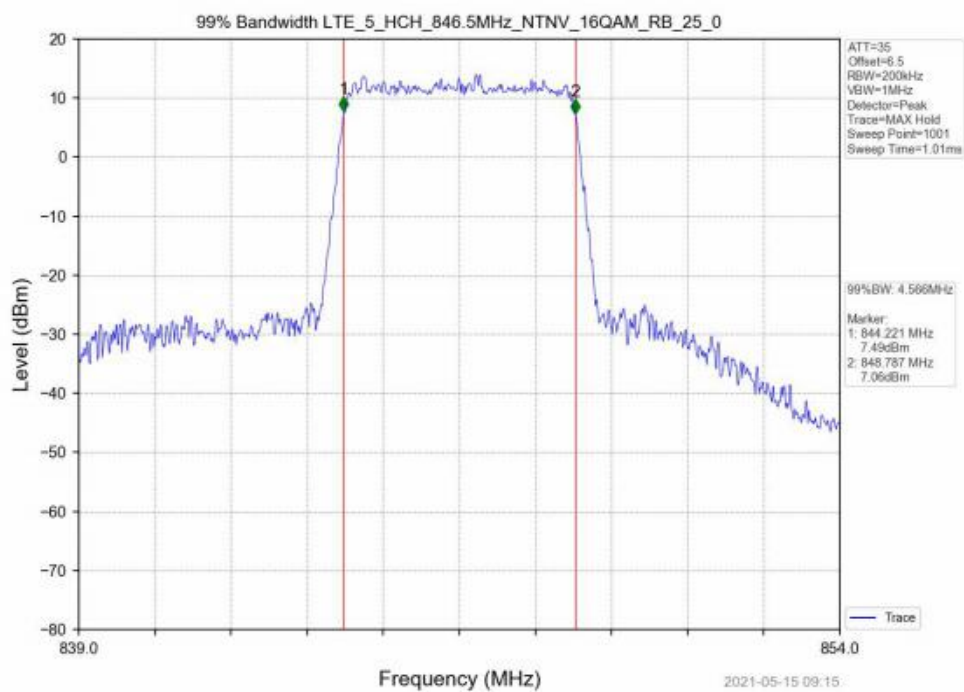


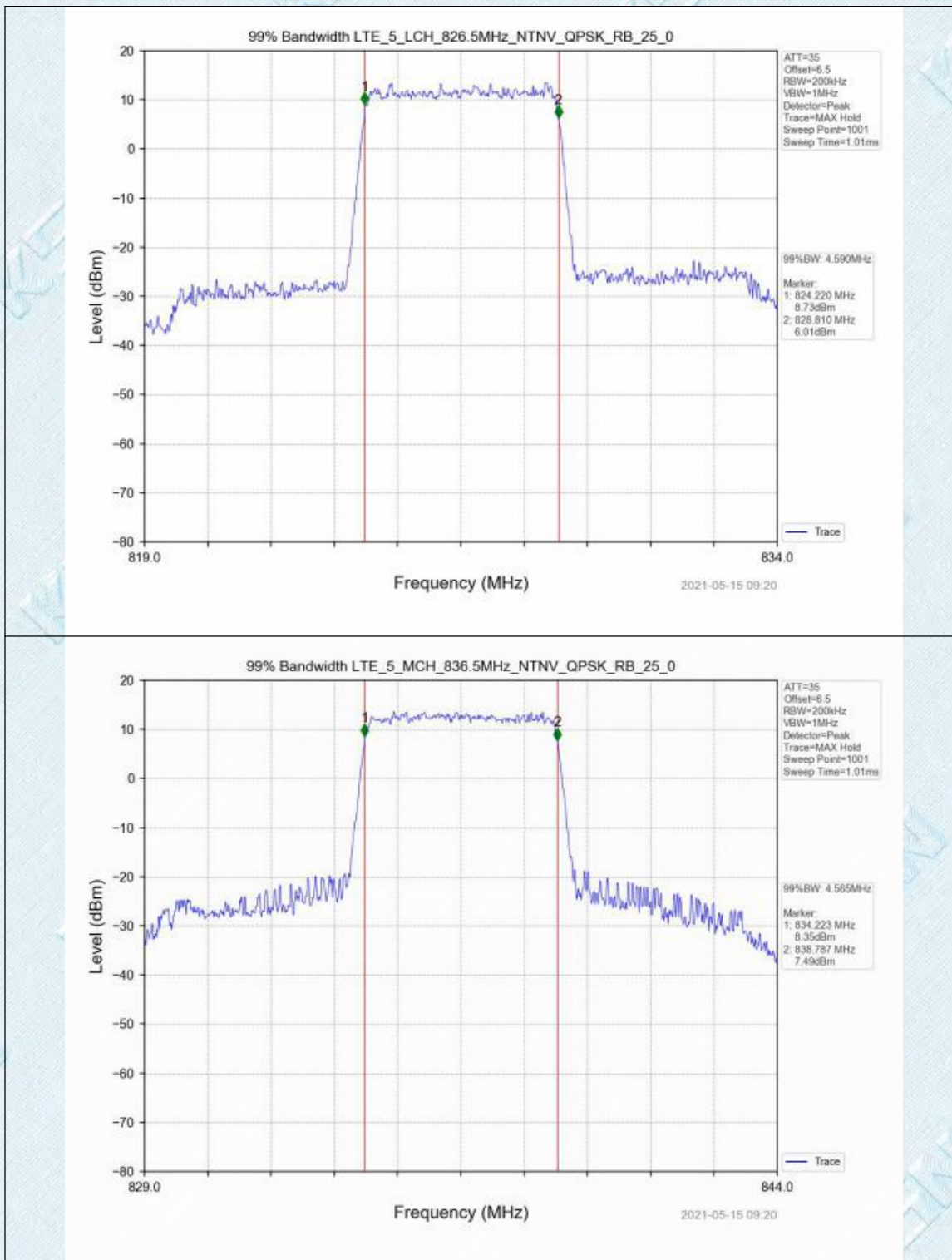


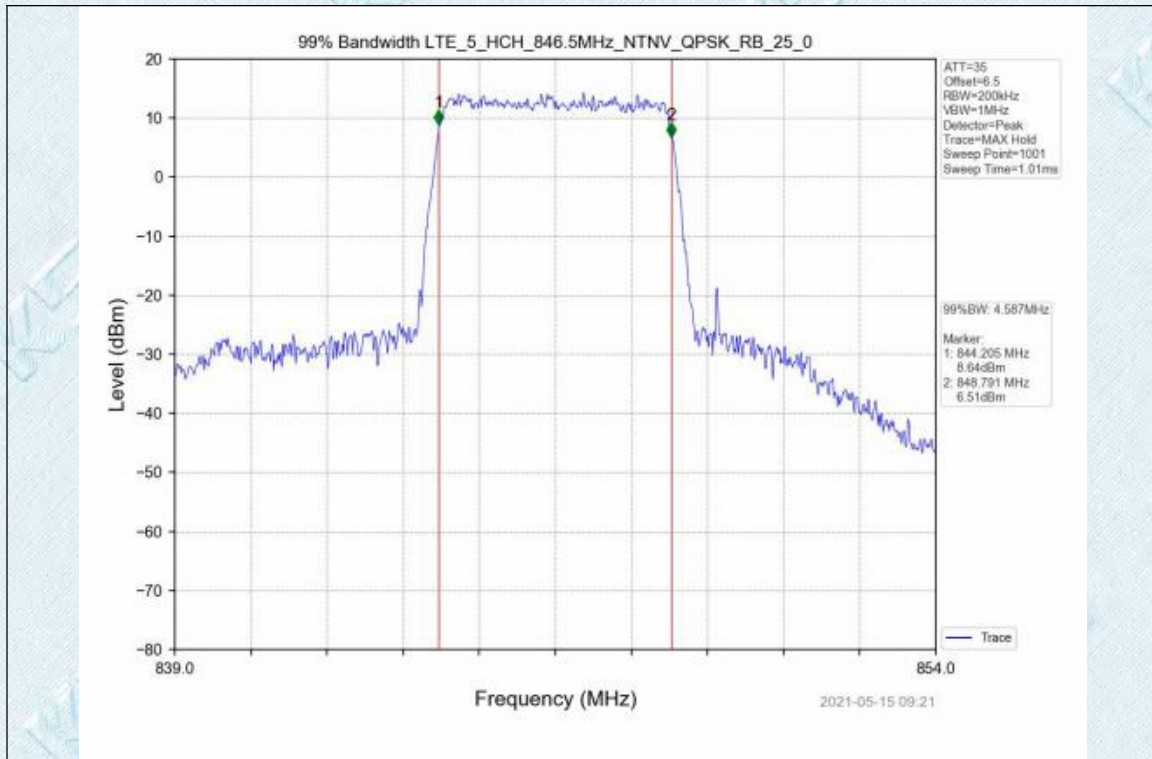
Test Band: 5_5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.590	4.565	4.587	N/A	PASS
16QAM	25	0	4.565	4.583	4.566	N/A	PASS

Test Graph



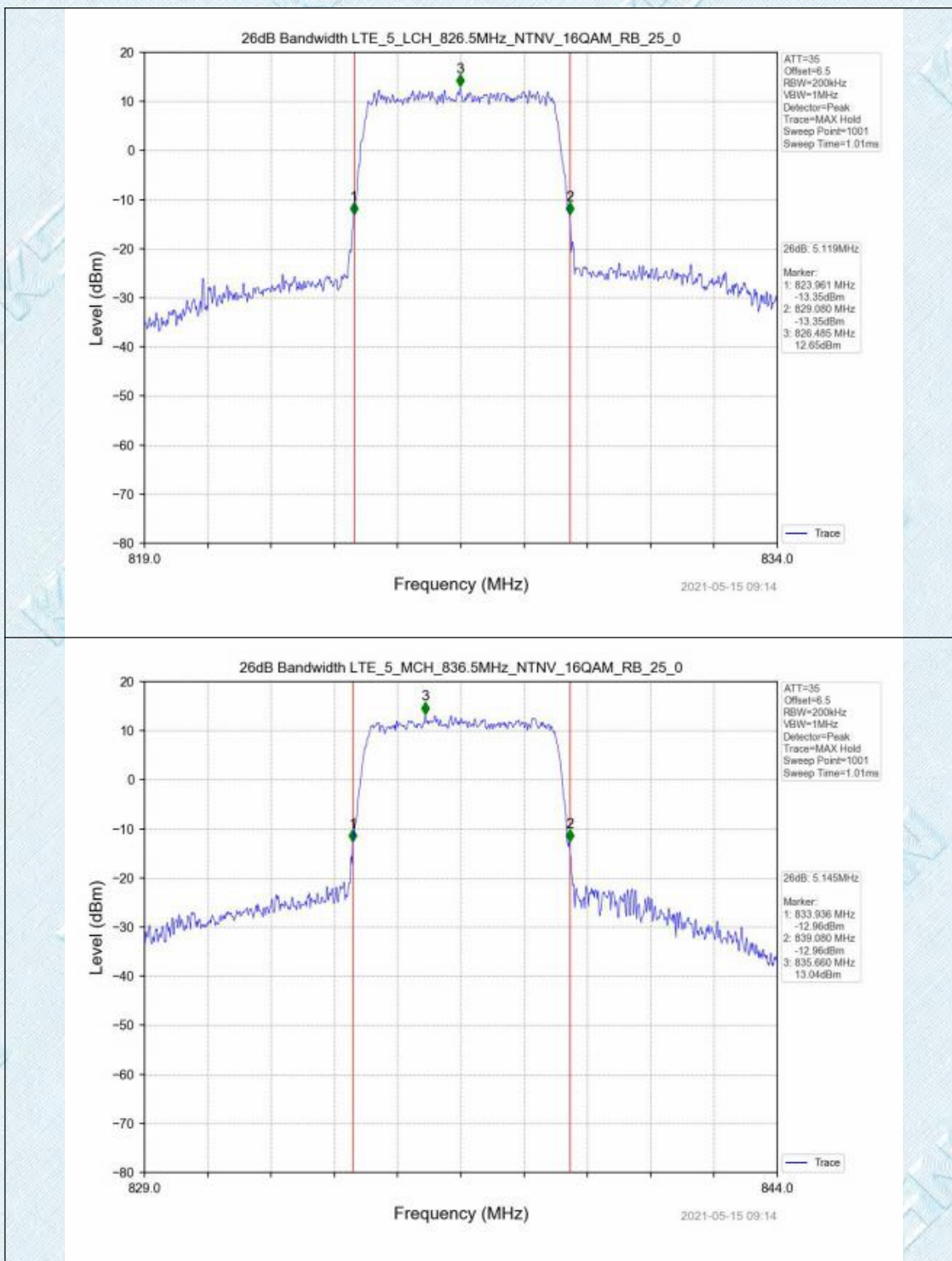


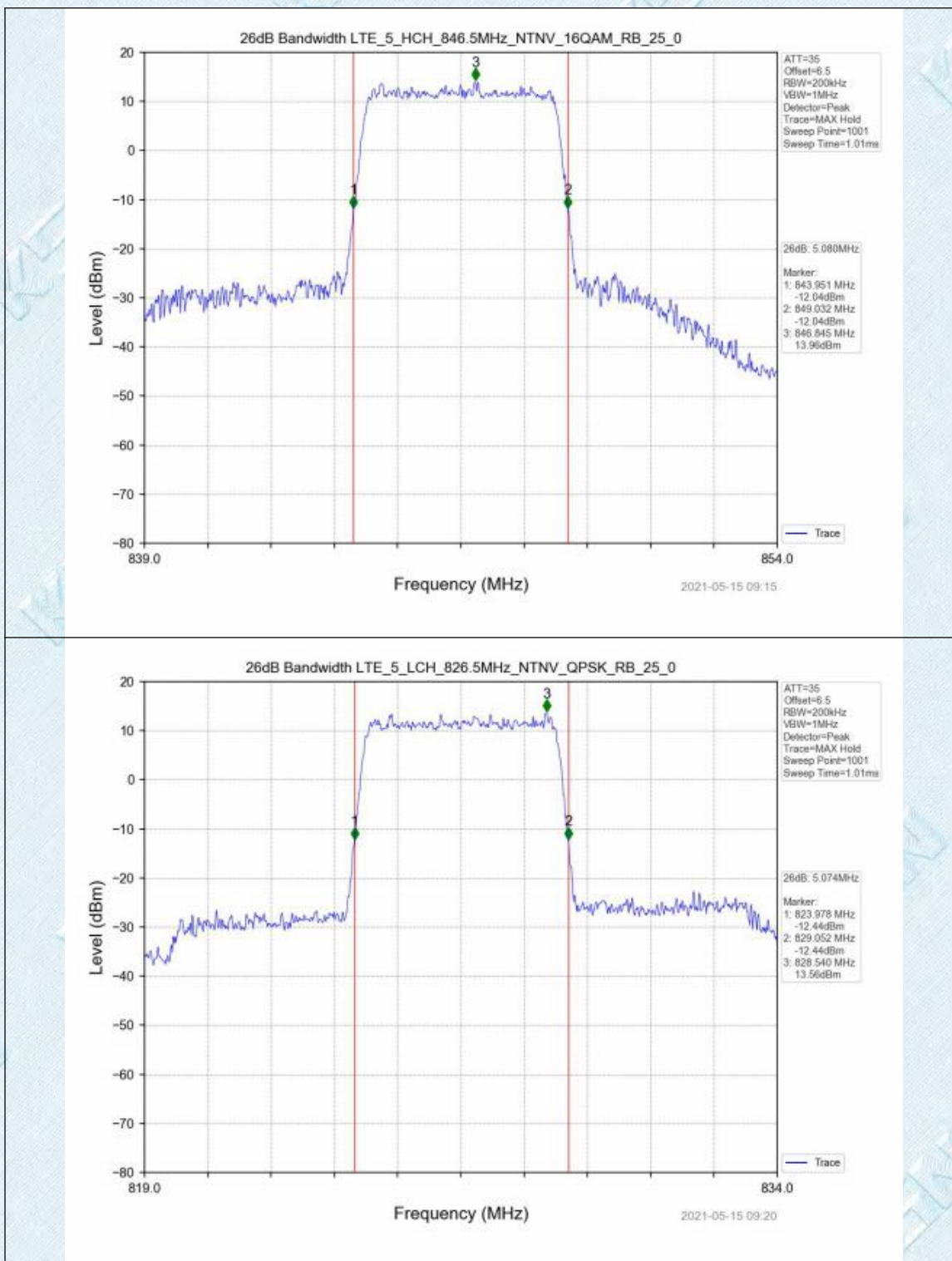


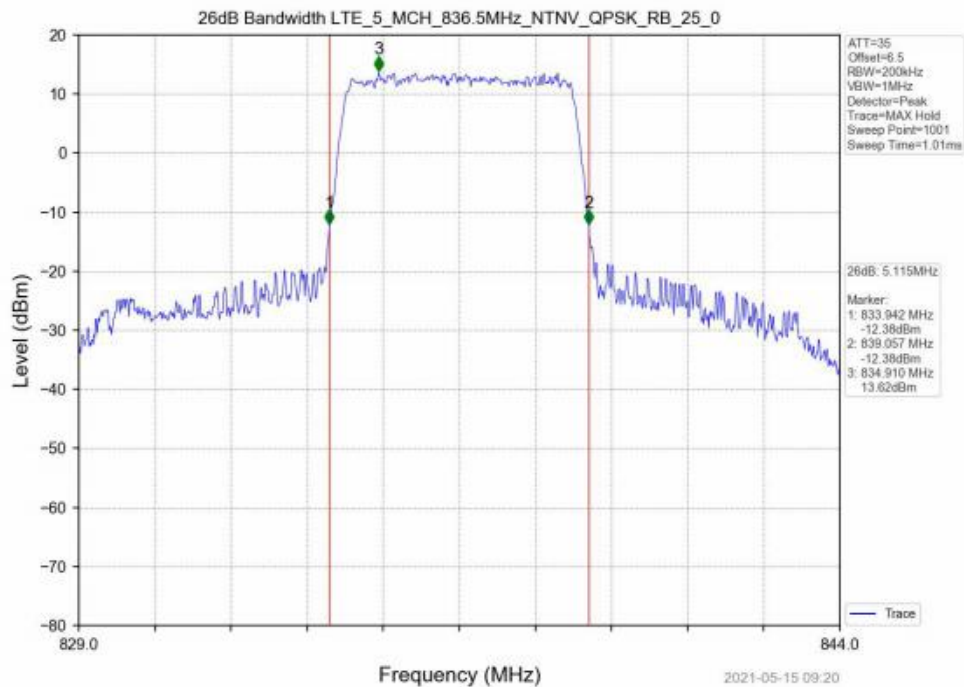
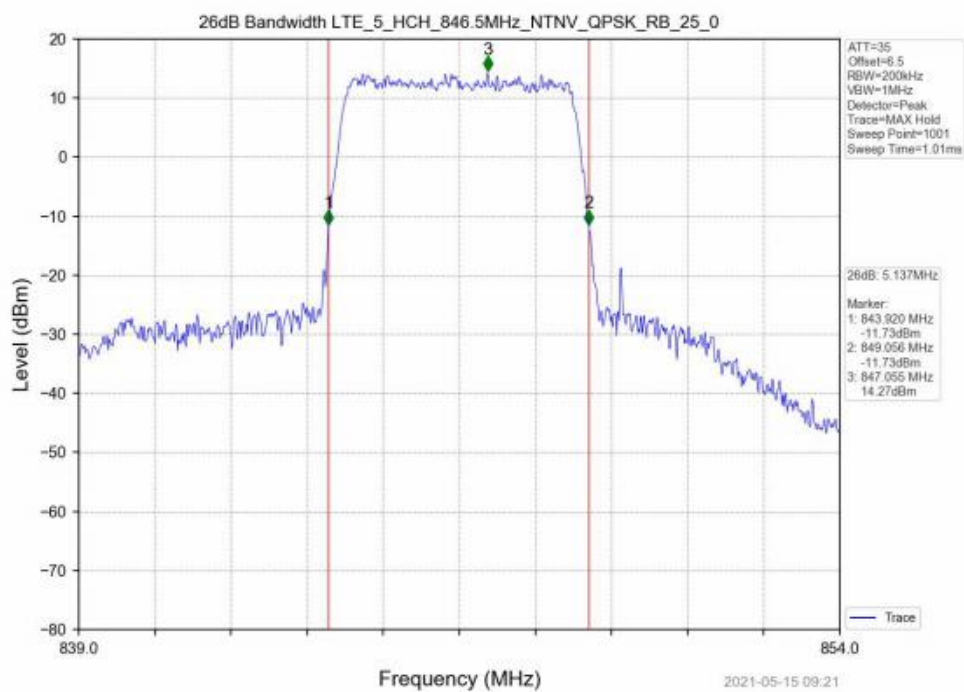


Test Band: 5 5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.074	5.115	5.137	N/A	PASS
16QAM	25	0	5.119	5.145	5.080	N/A	PASS

Test Graph

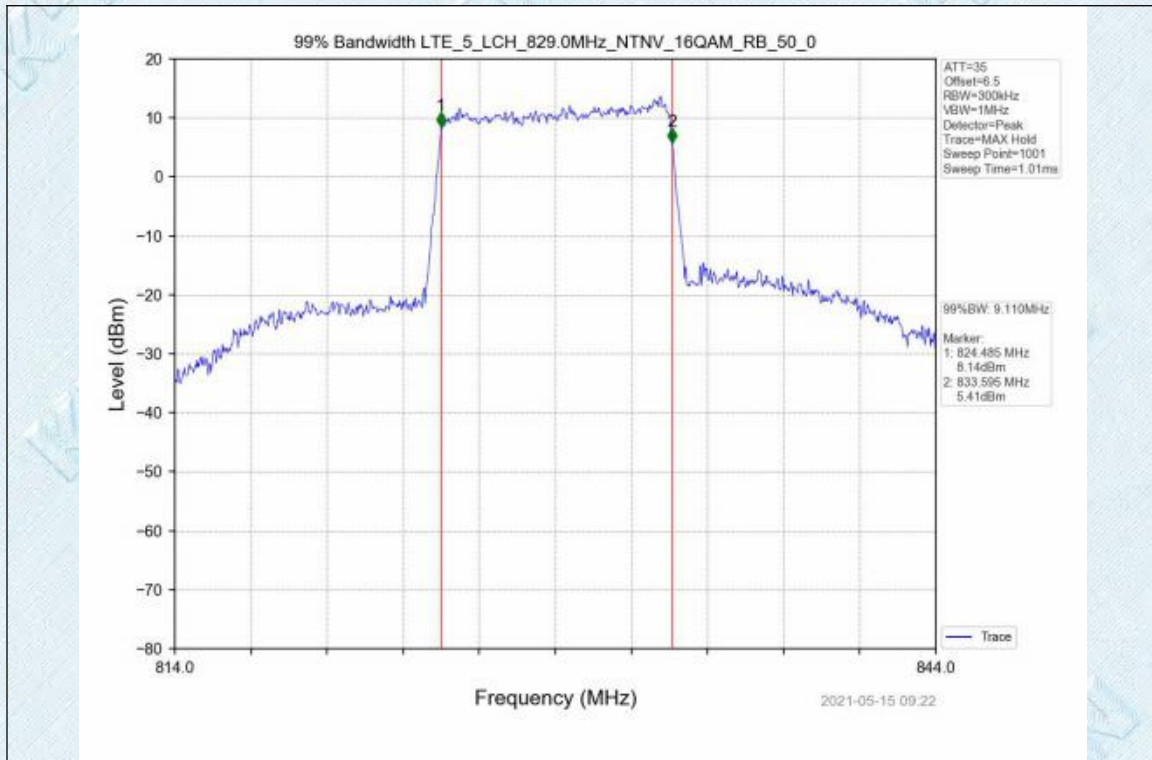


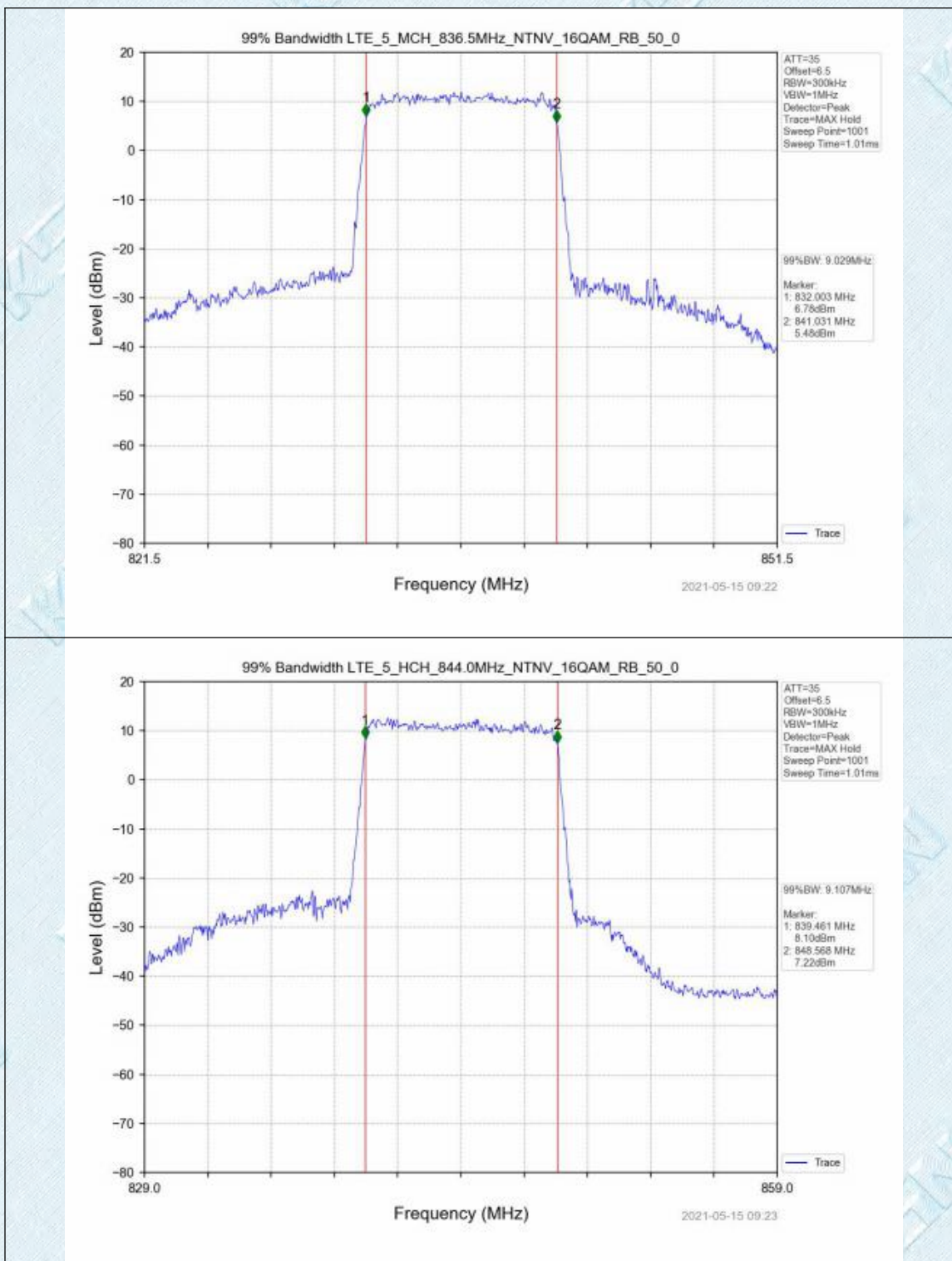


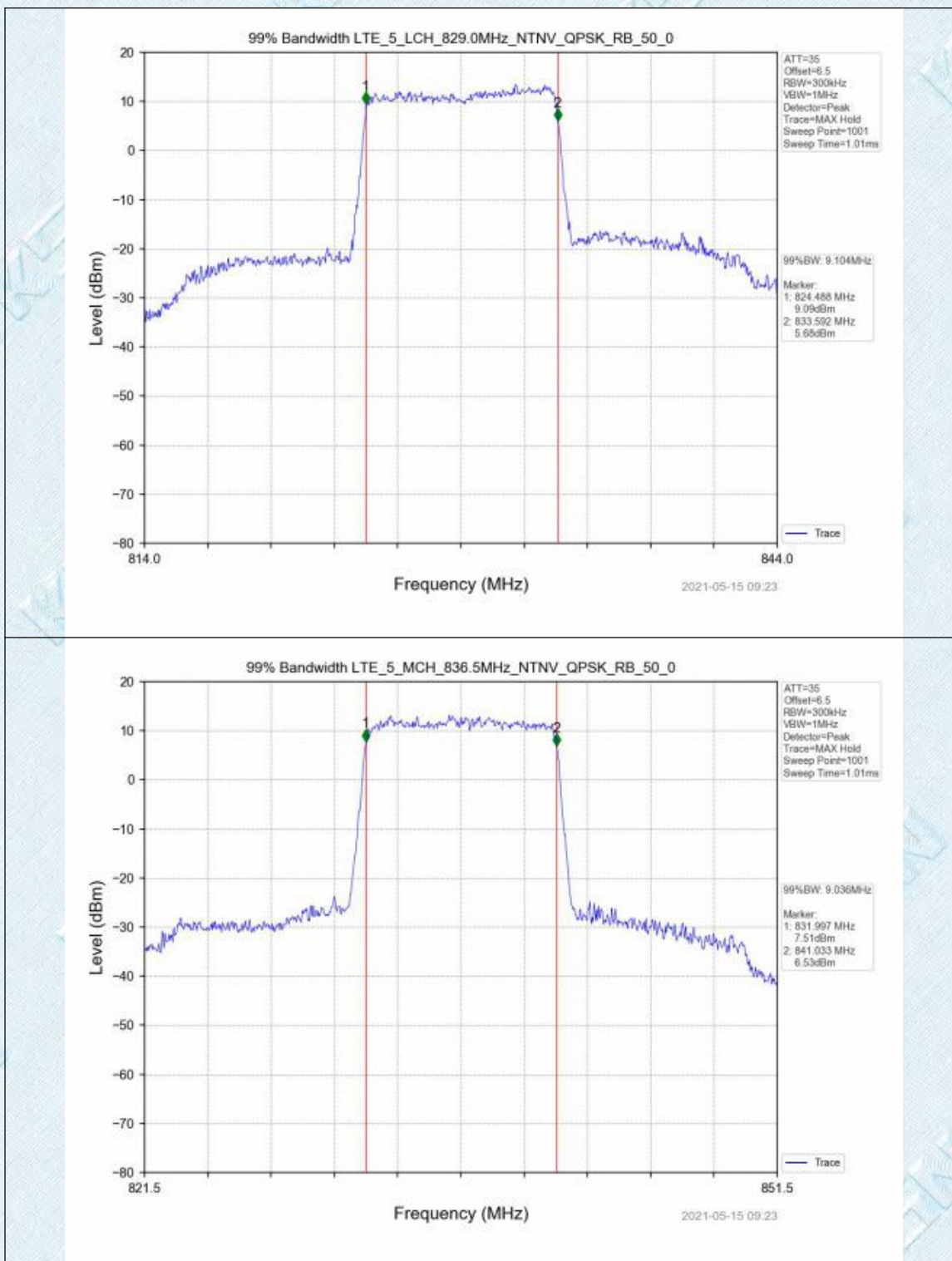


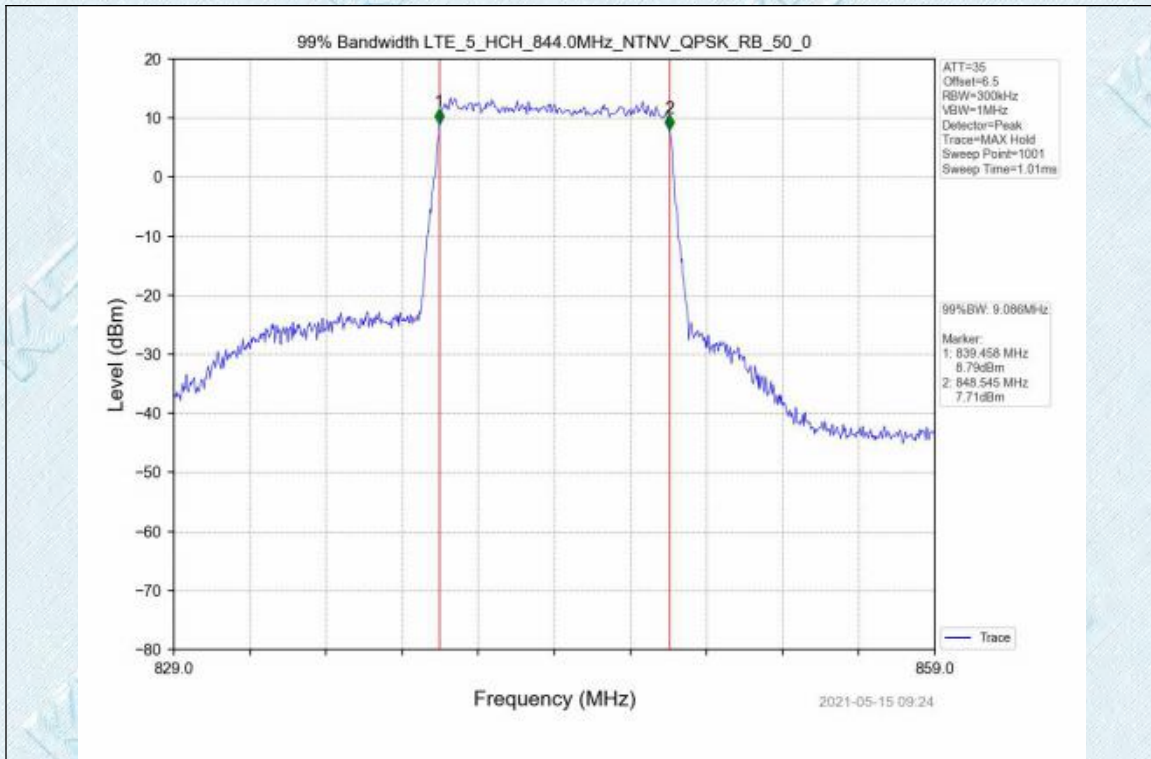
Test Band: 5 10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.104	9.036	9.086	N/A	PASS
16QAM	50	0	9.110	9.029	9.107	N/A	PASS

Test Graph



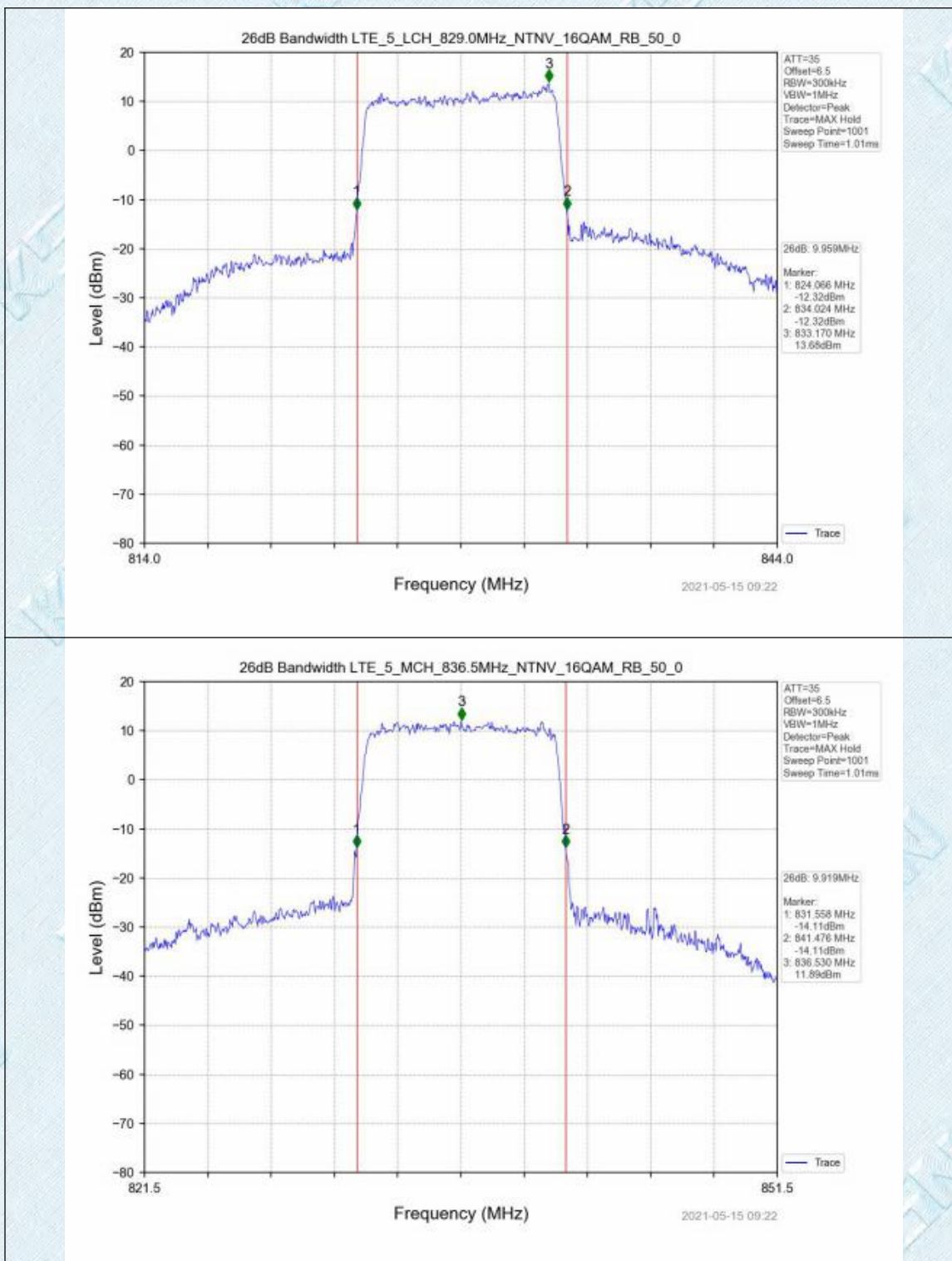


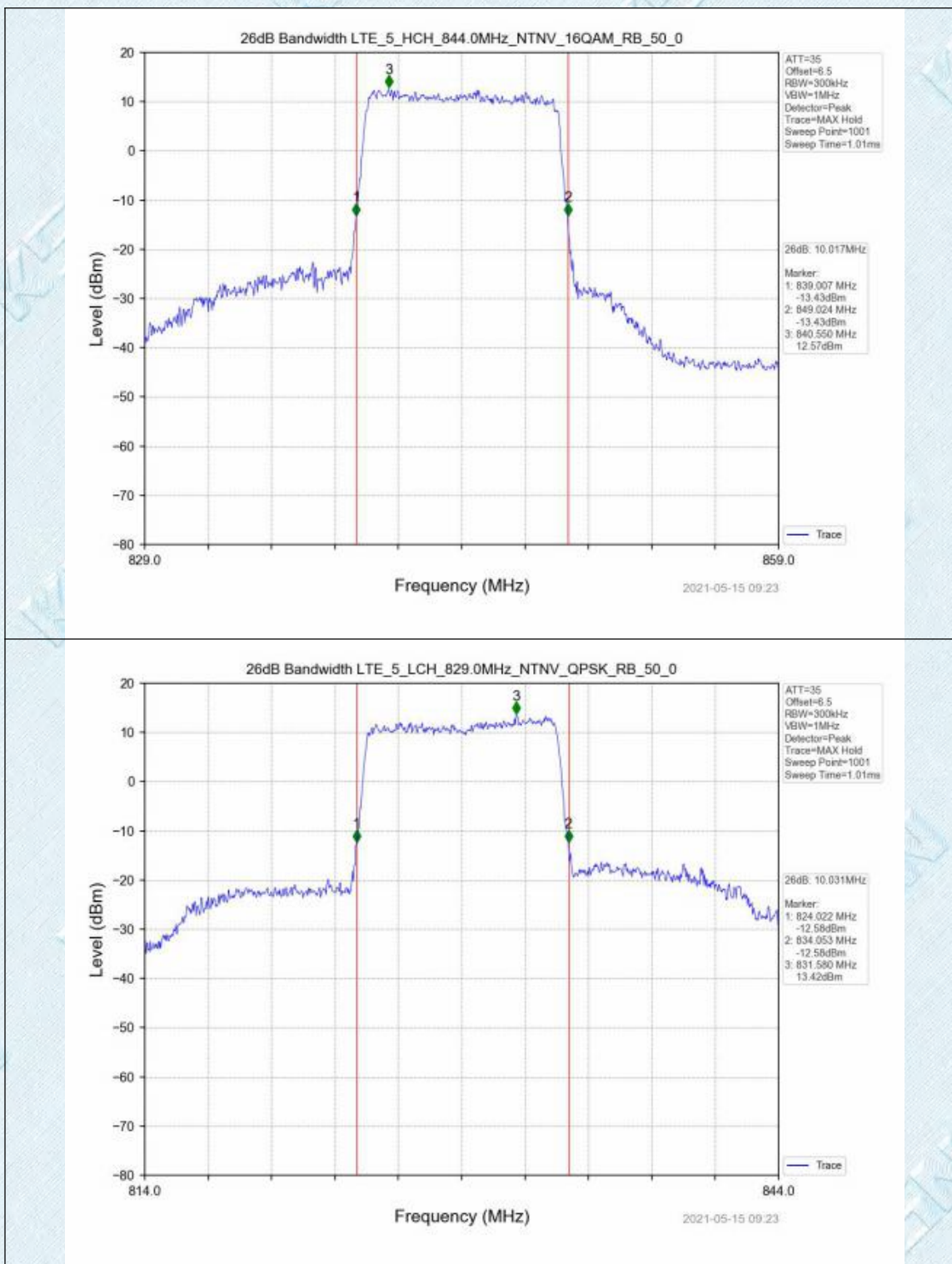


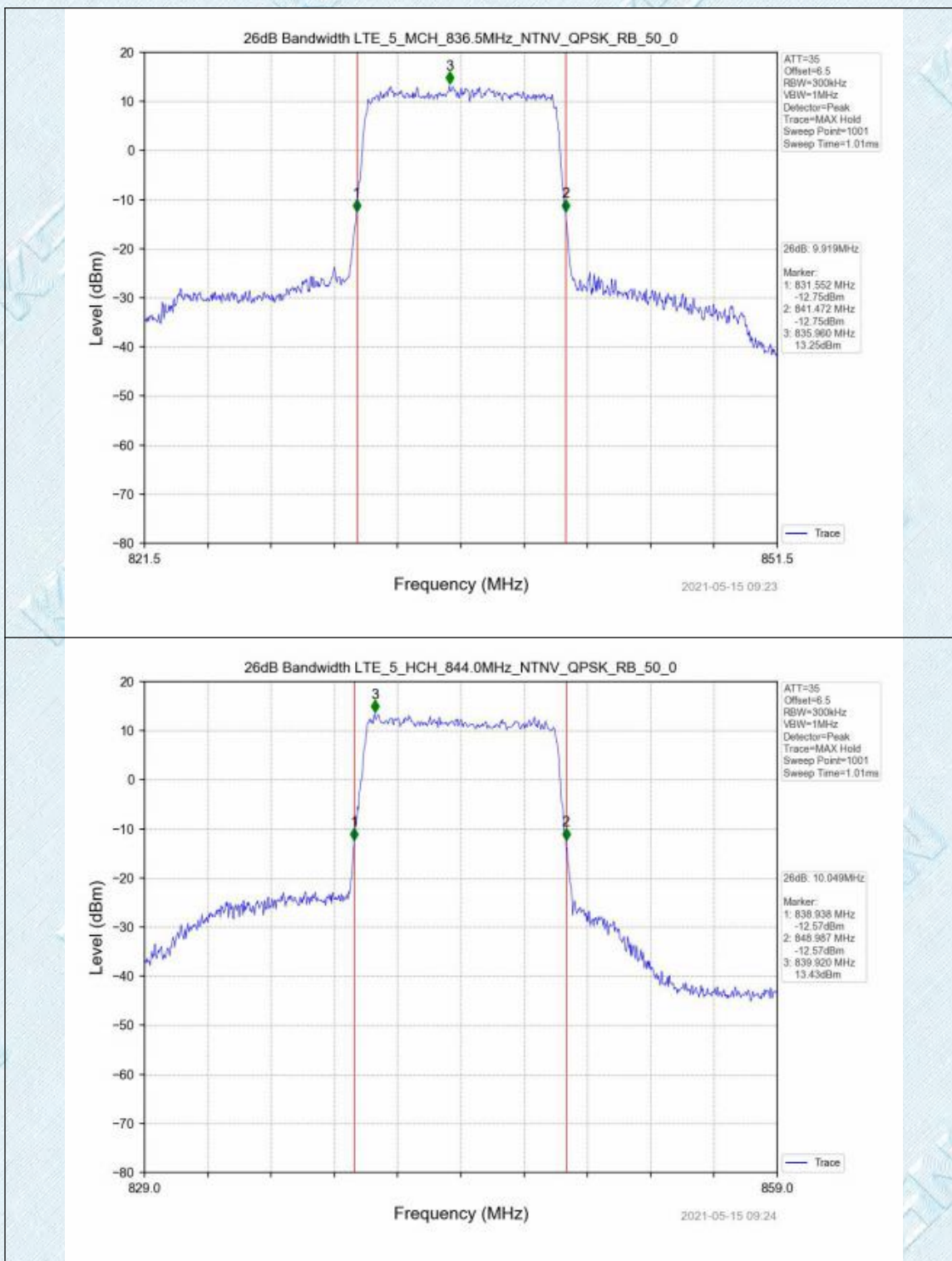


Test Band: 5 10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	10.031	9.919	10.049	N/A	PASS
16QAM	50	0	9.959	9.919	10.017	N/A	PASS

Test Graph



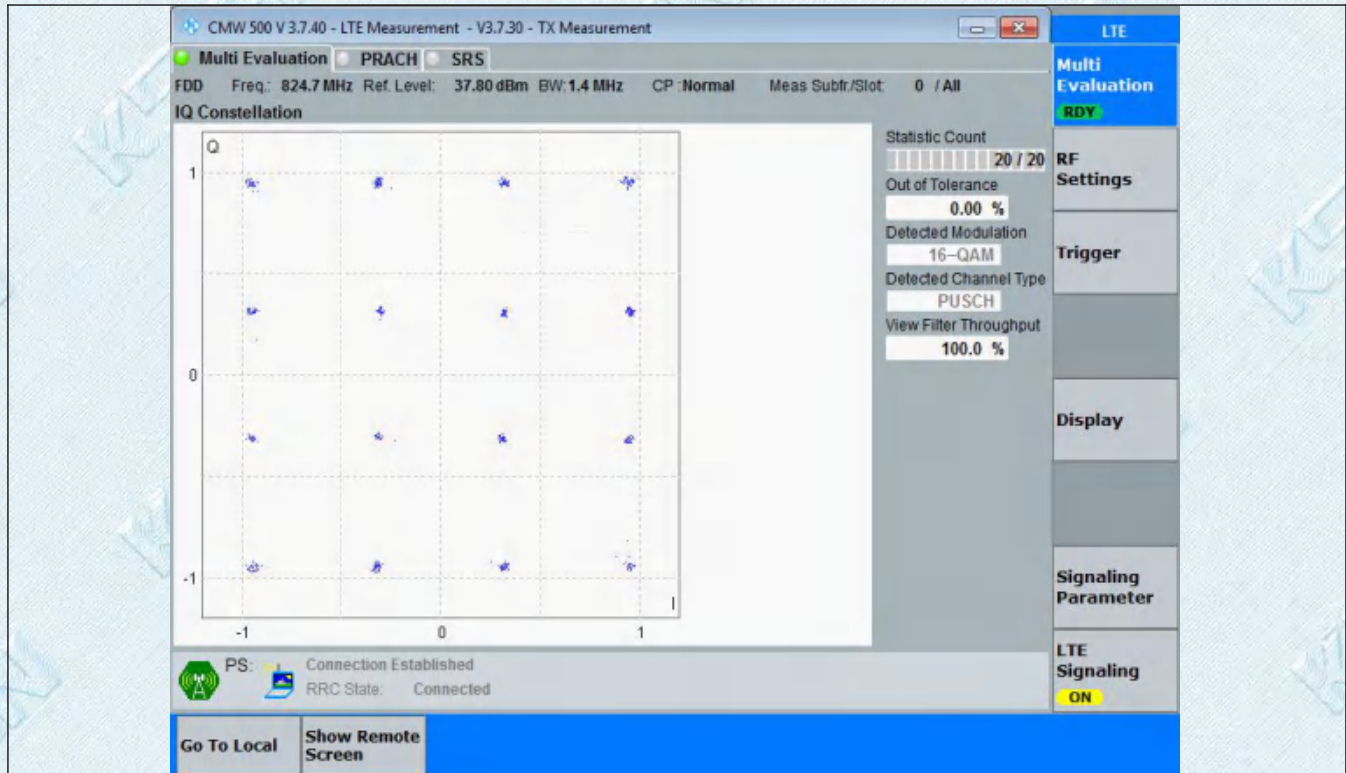


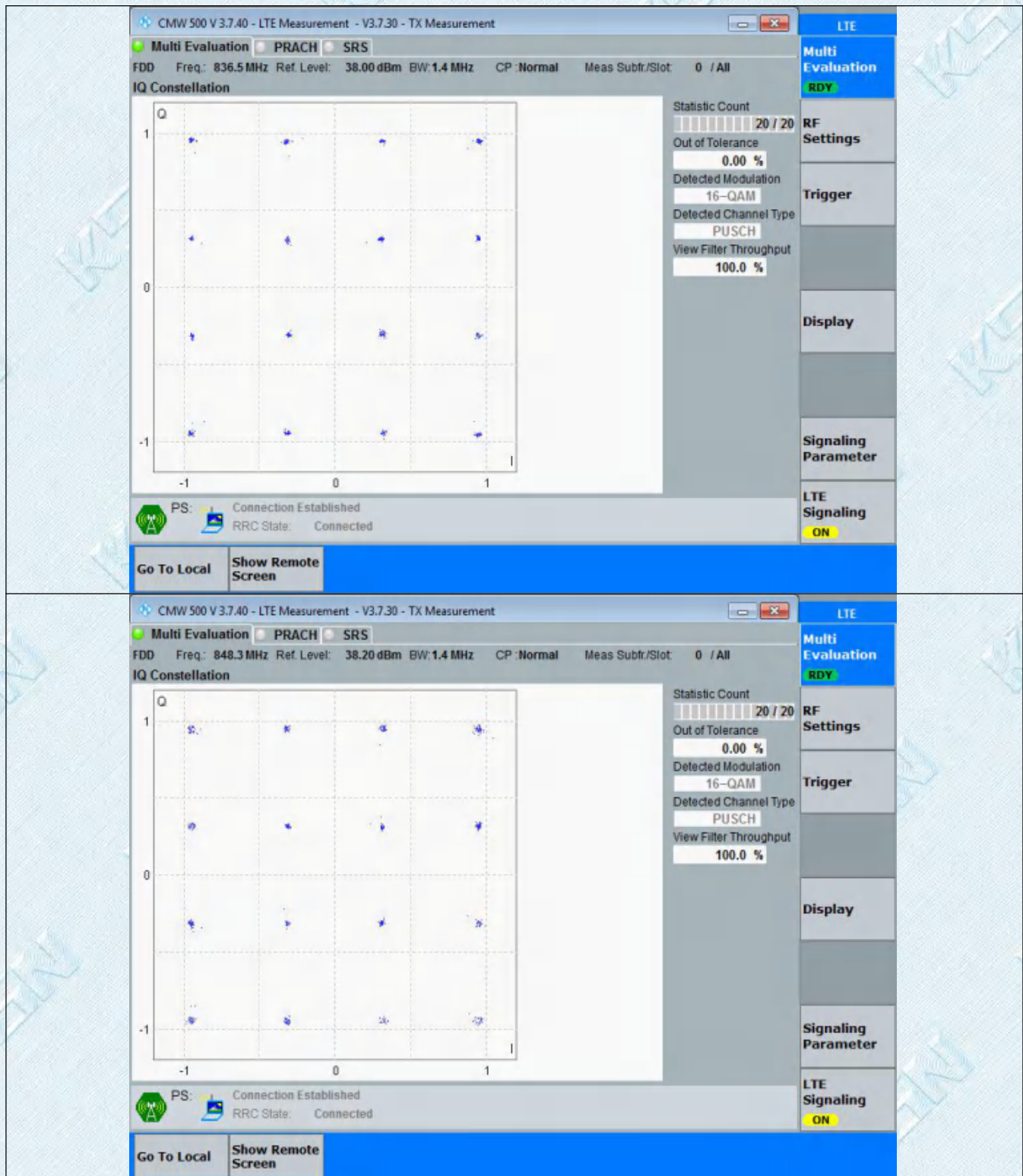


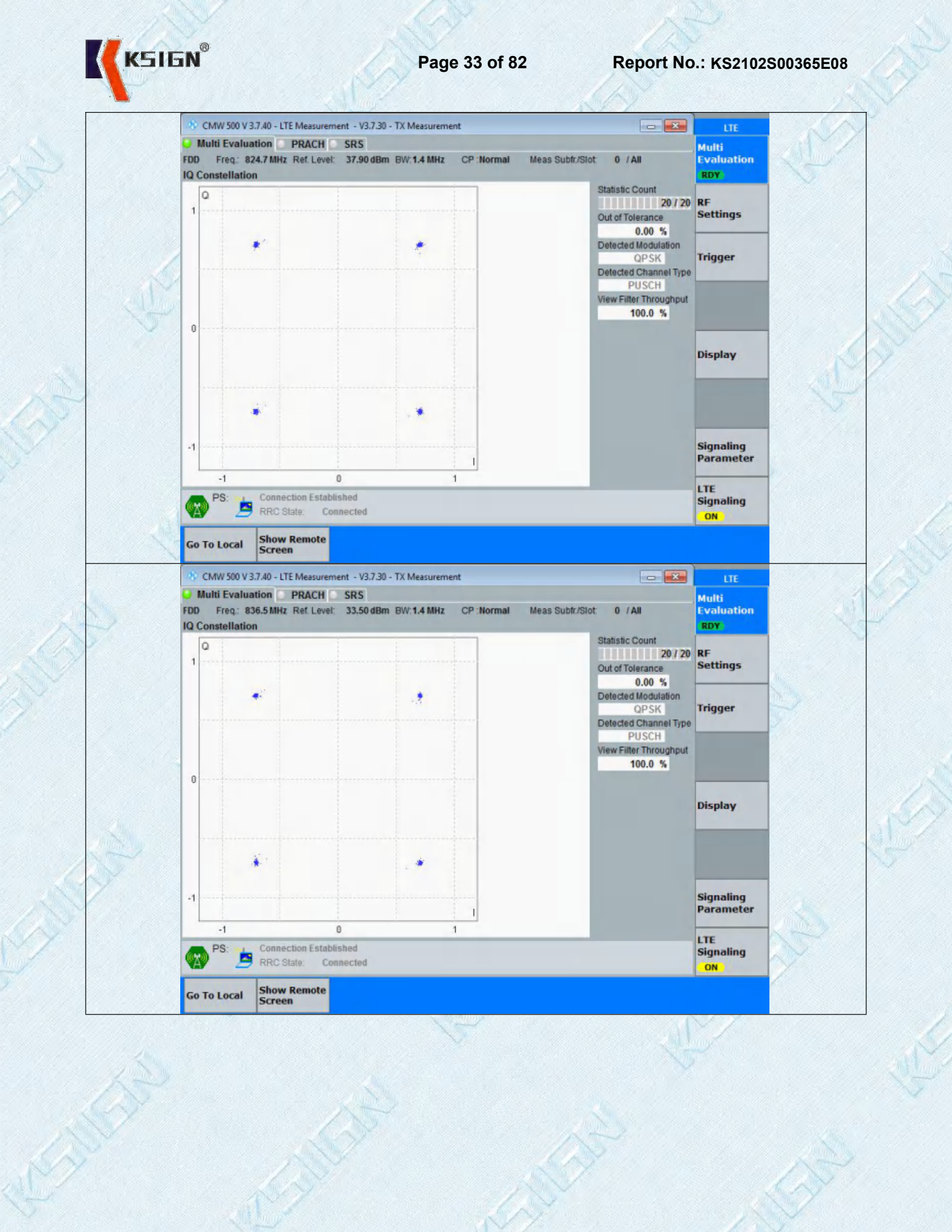
3. Modulation Characteristics

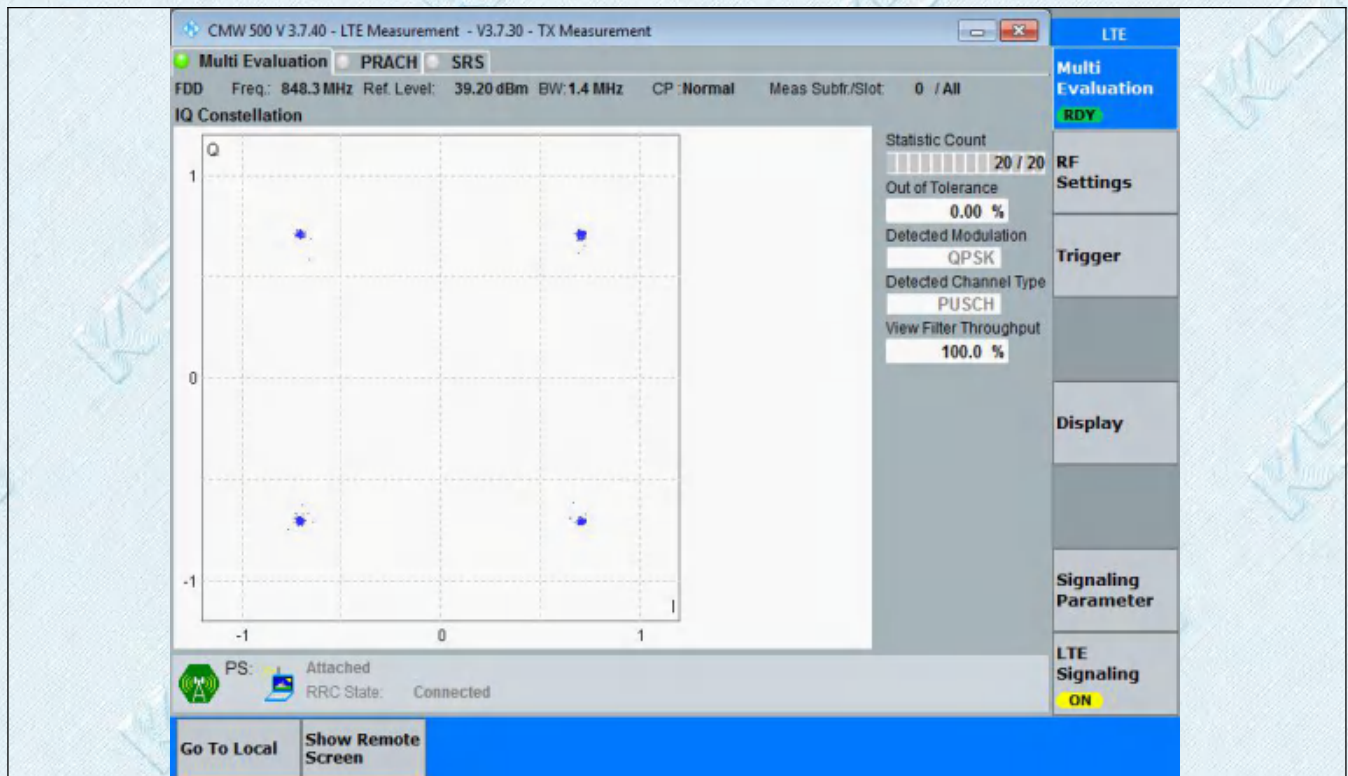
Test Band 5 _1.4MHz Bandwidth

Test Graph



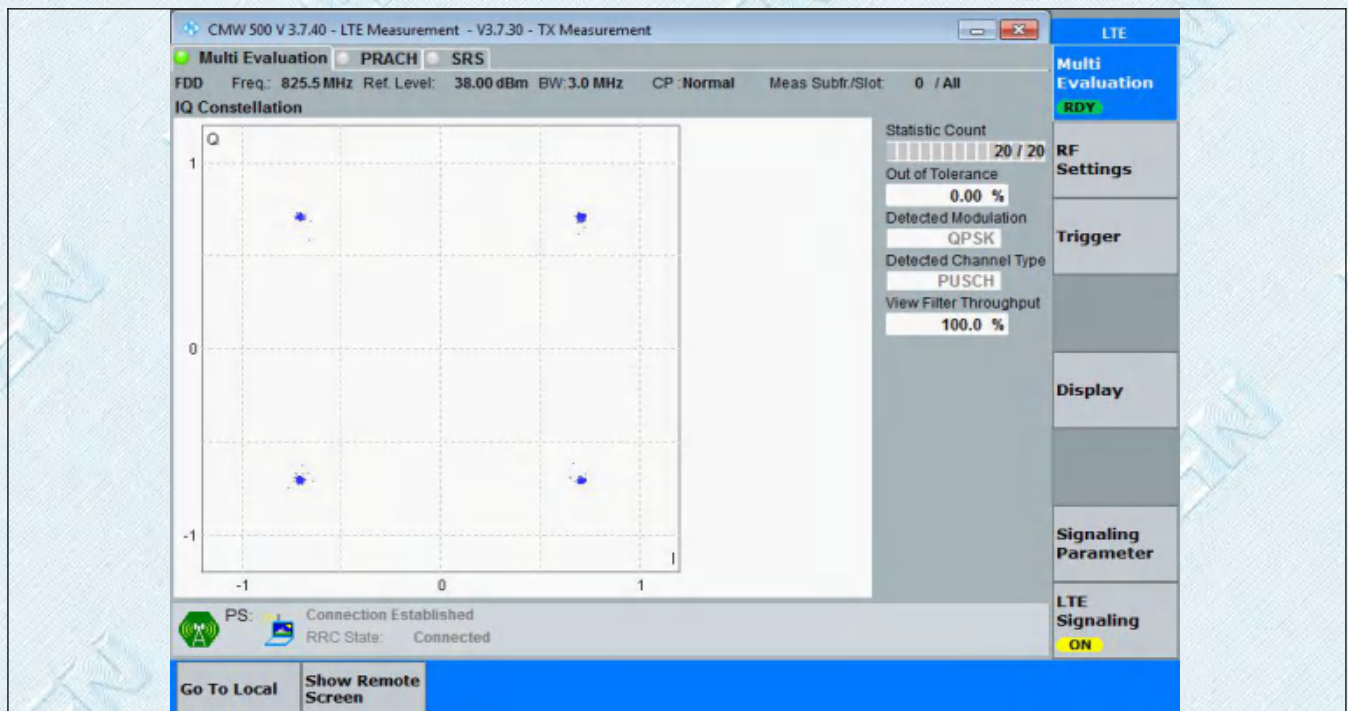


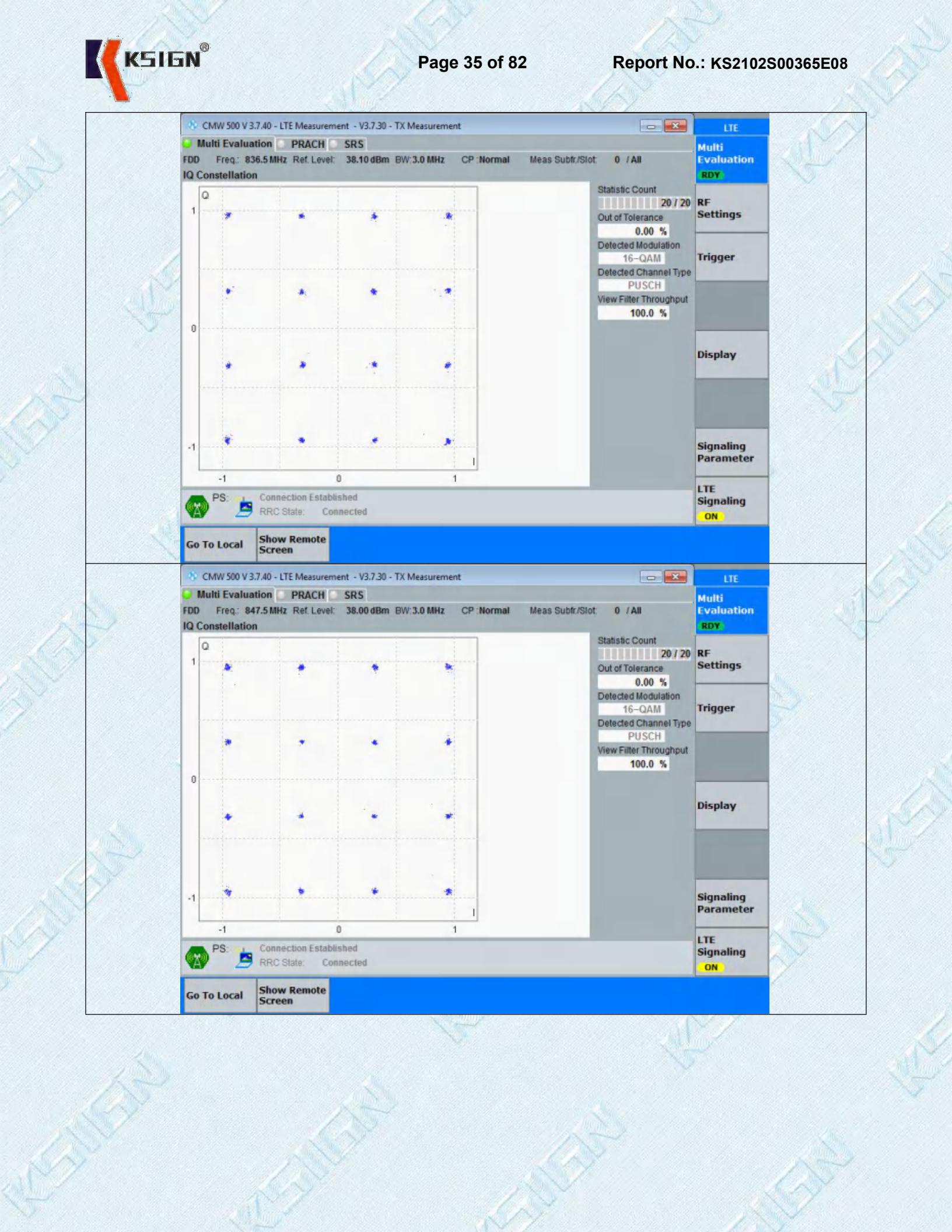


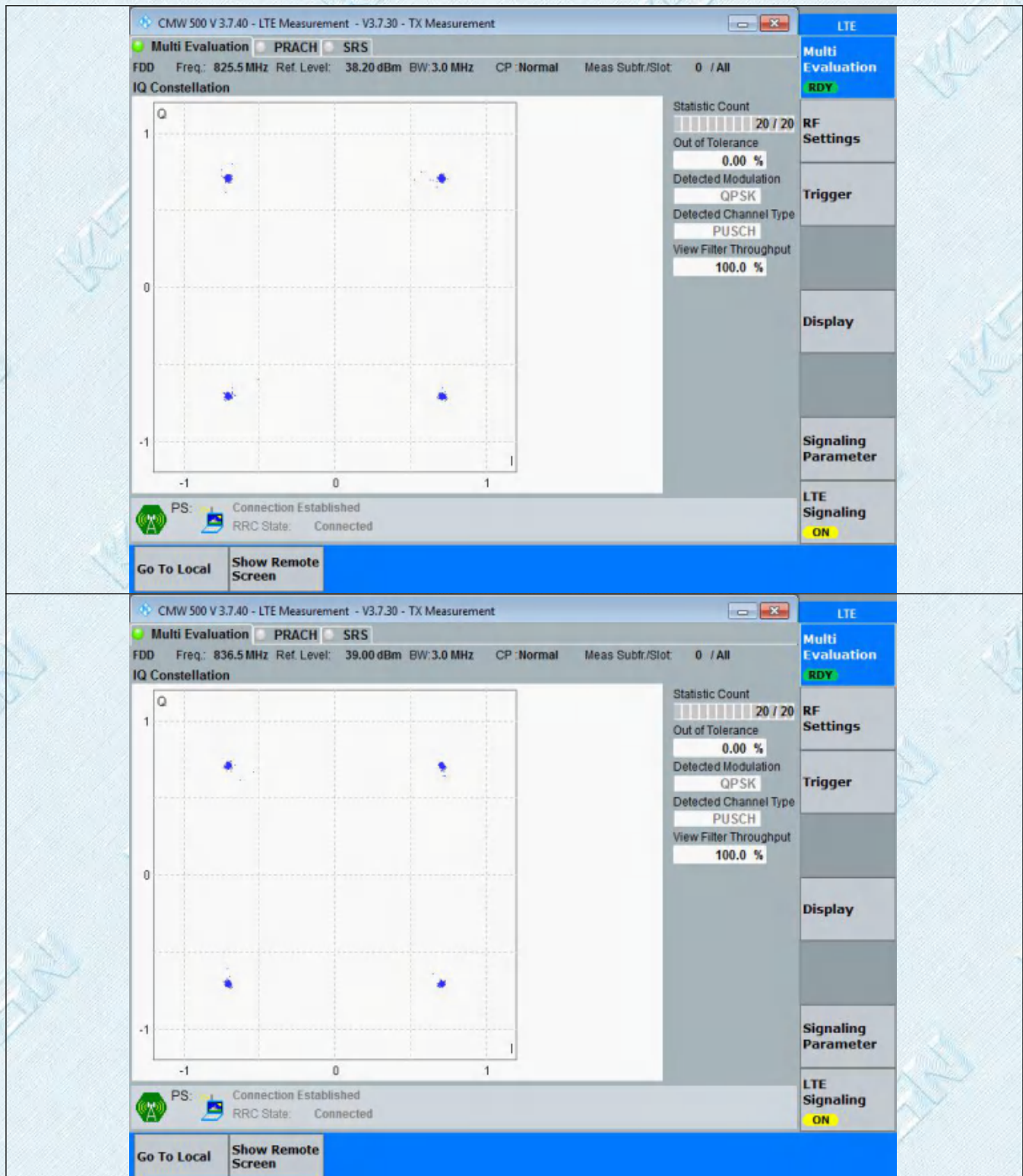


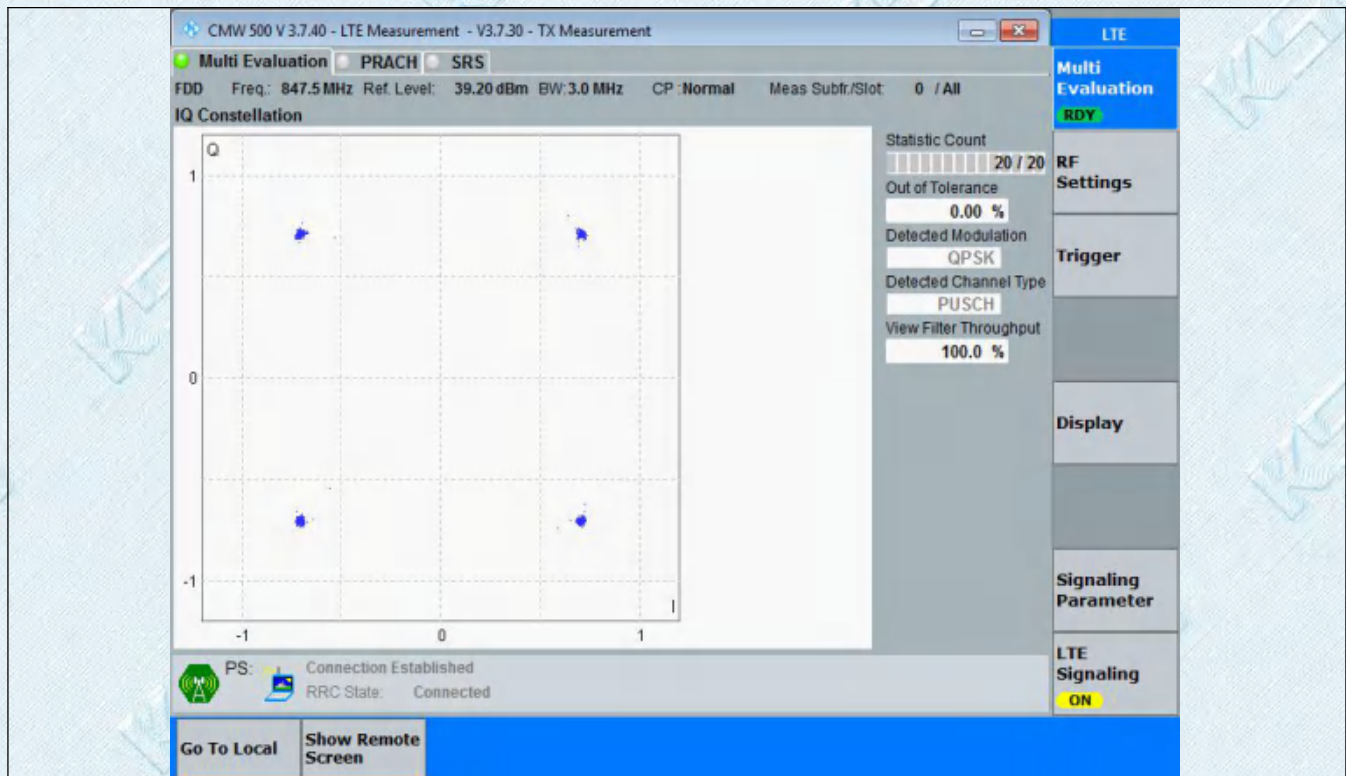
Test Band 5 _3MHz Bandwidth

Test Graph



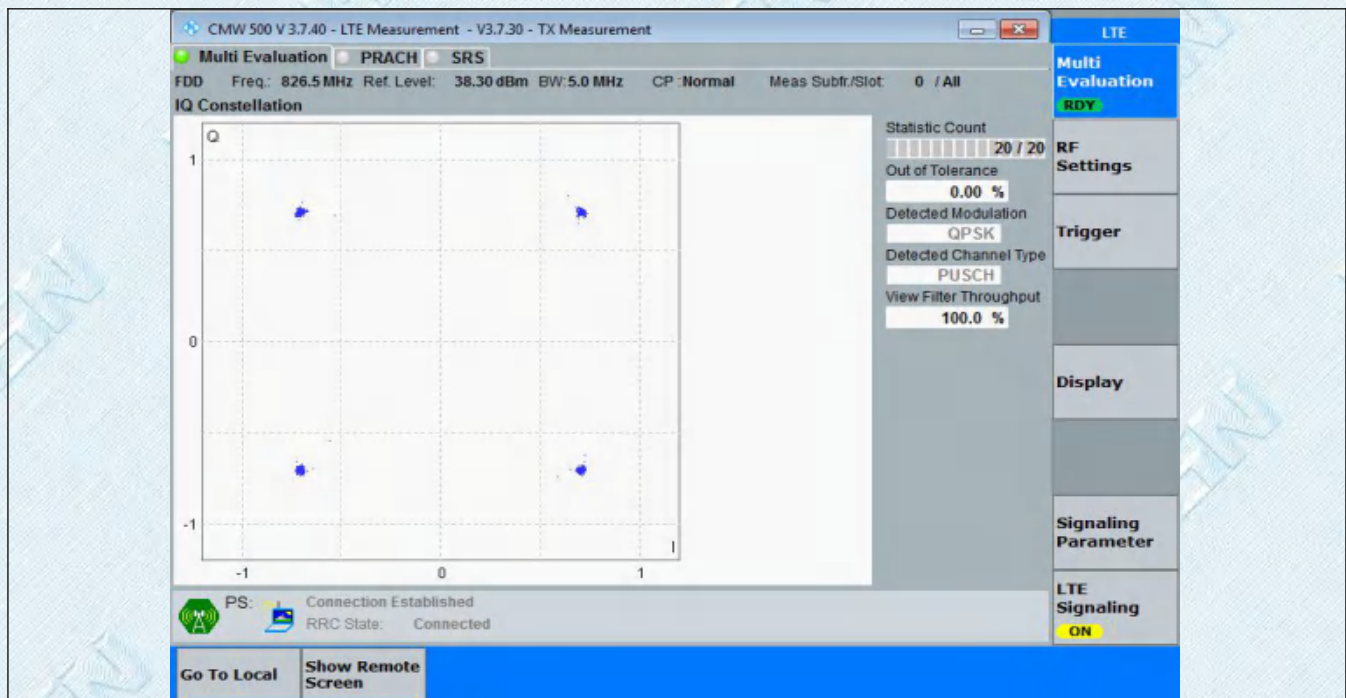


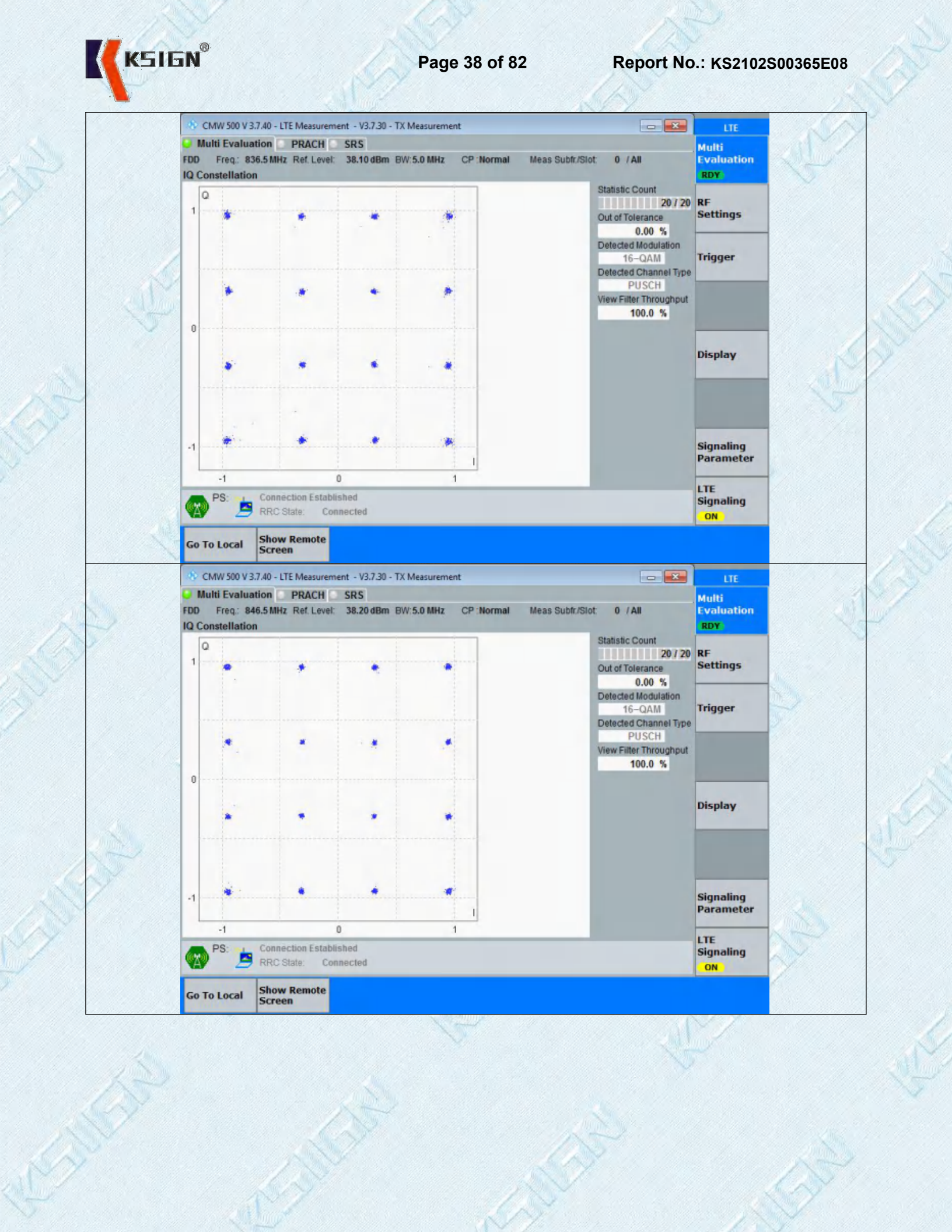


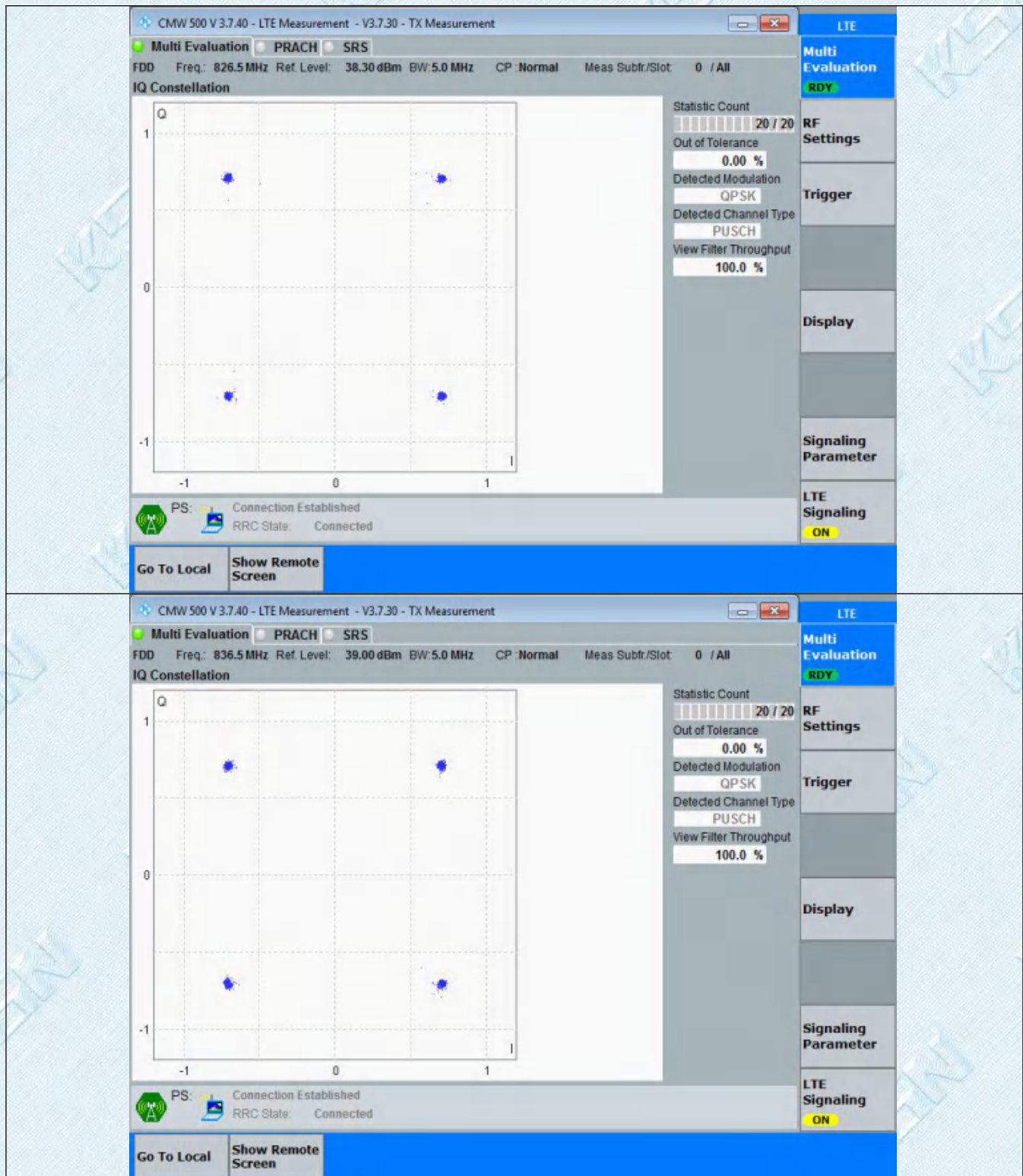


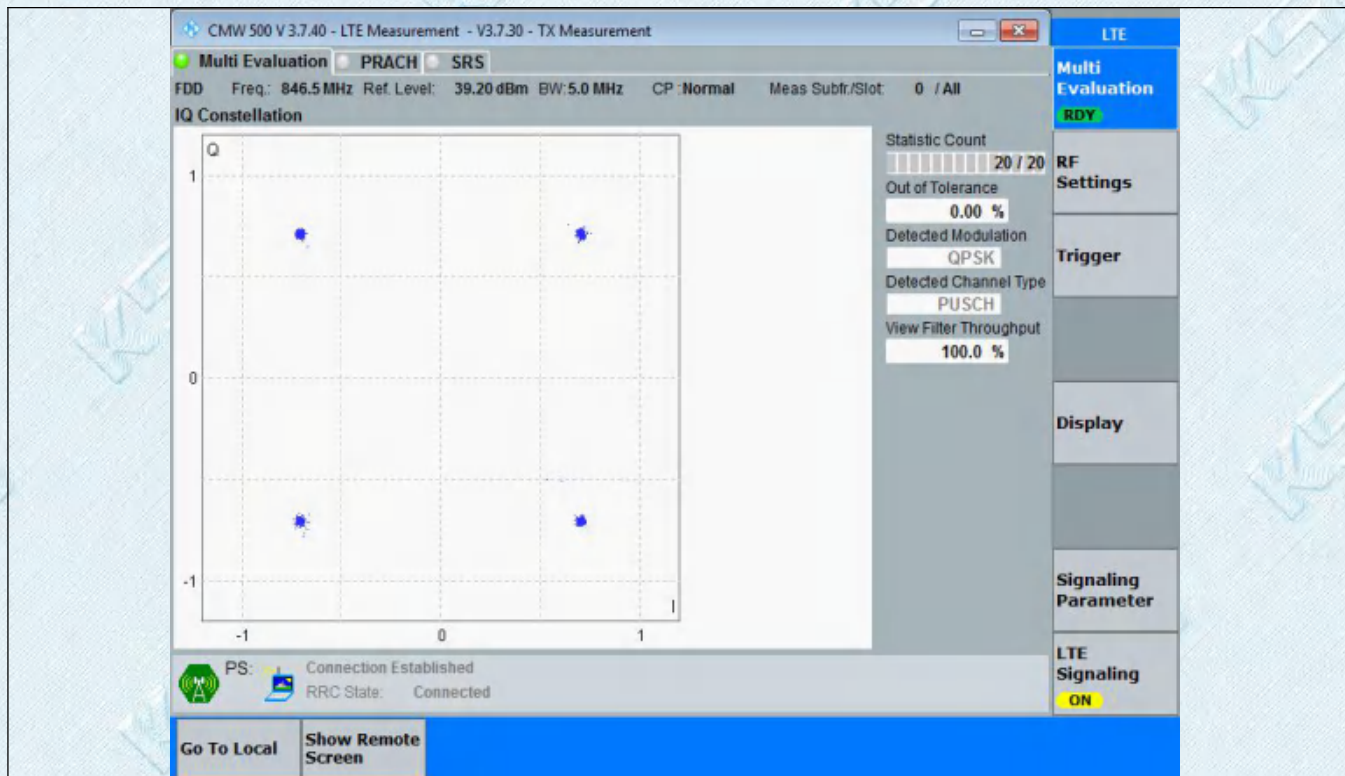
Test Band 5 _5MHz Bandwidth

Test Graph



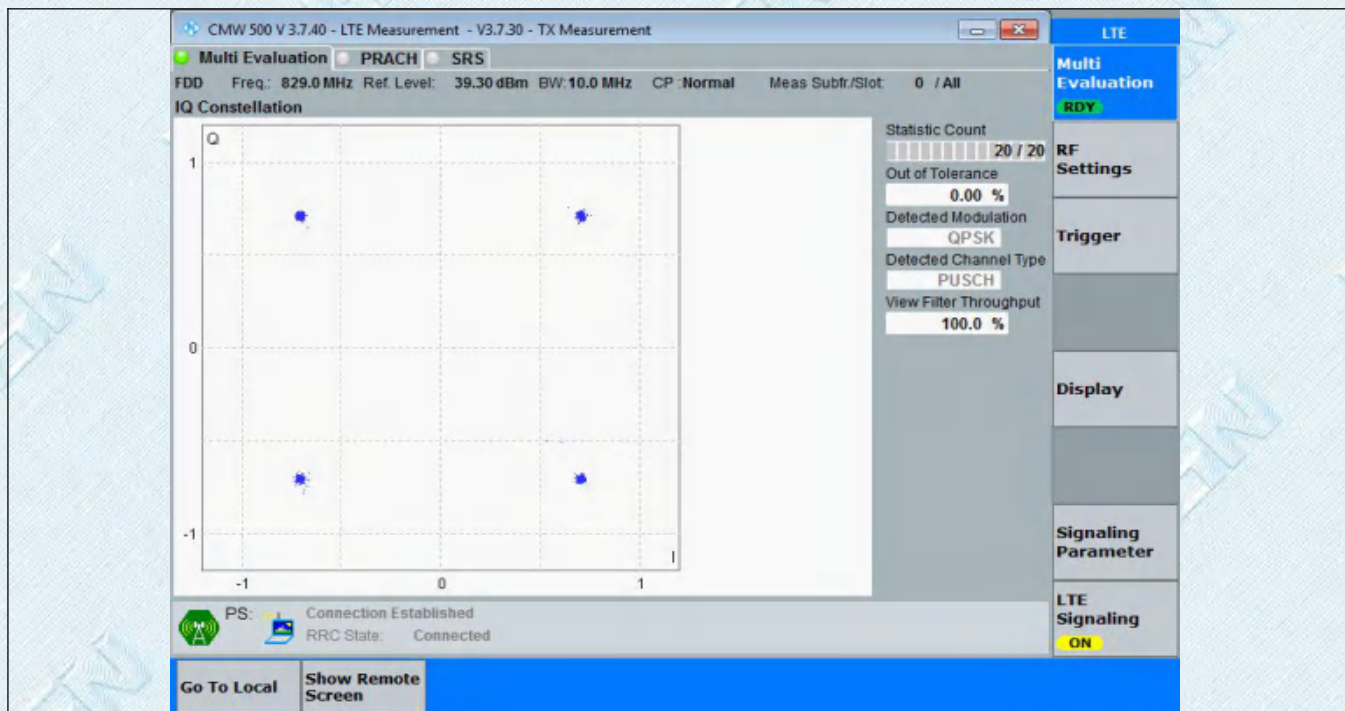


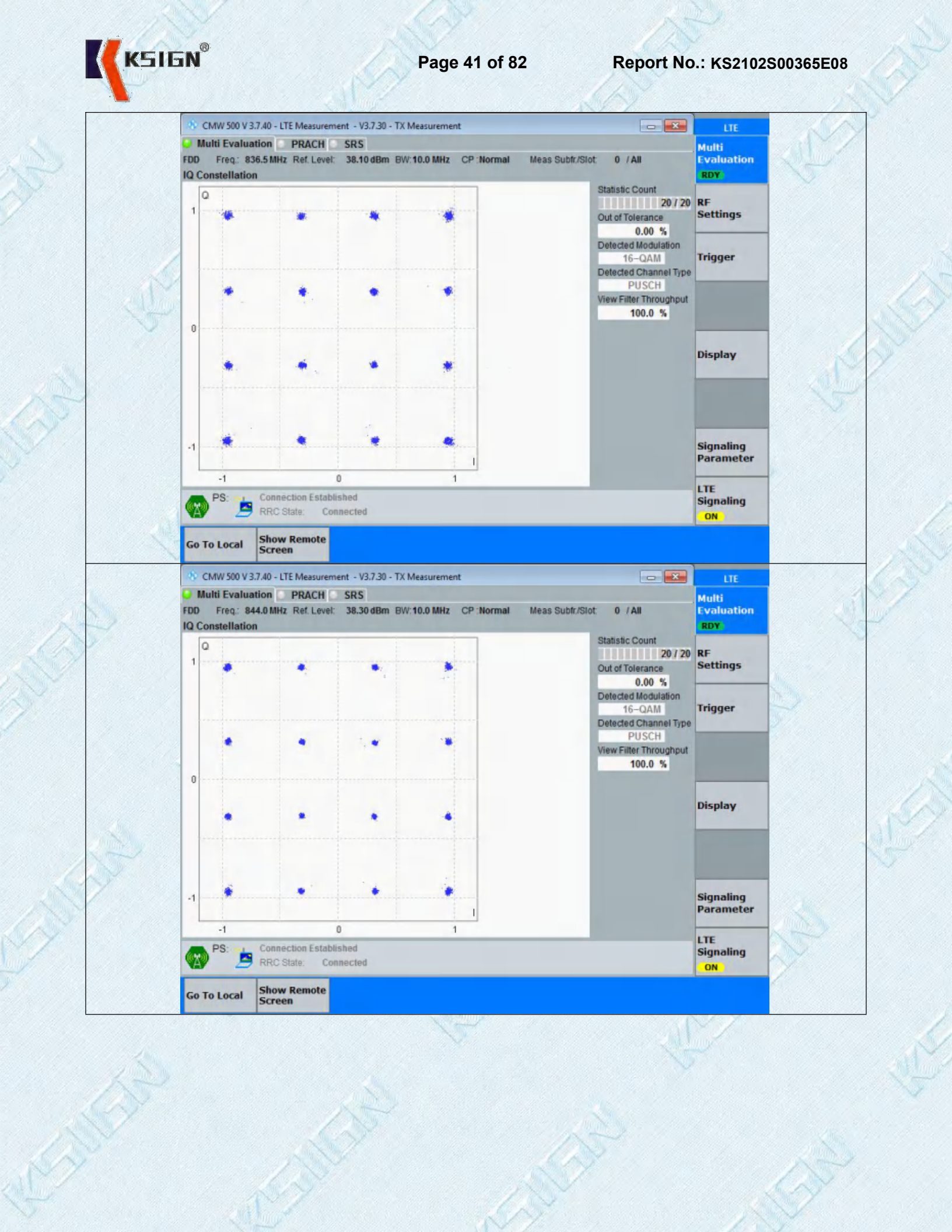


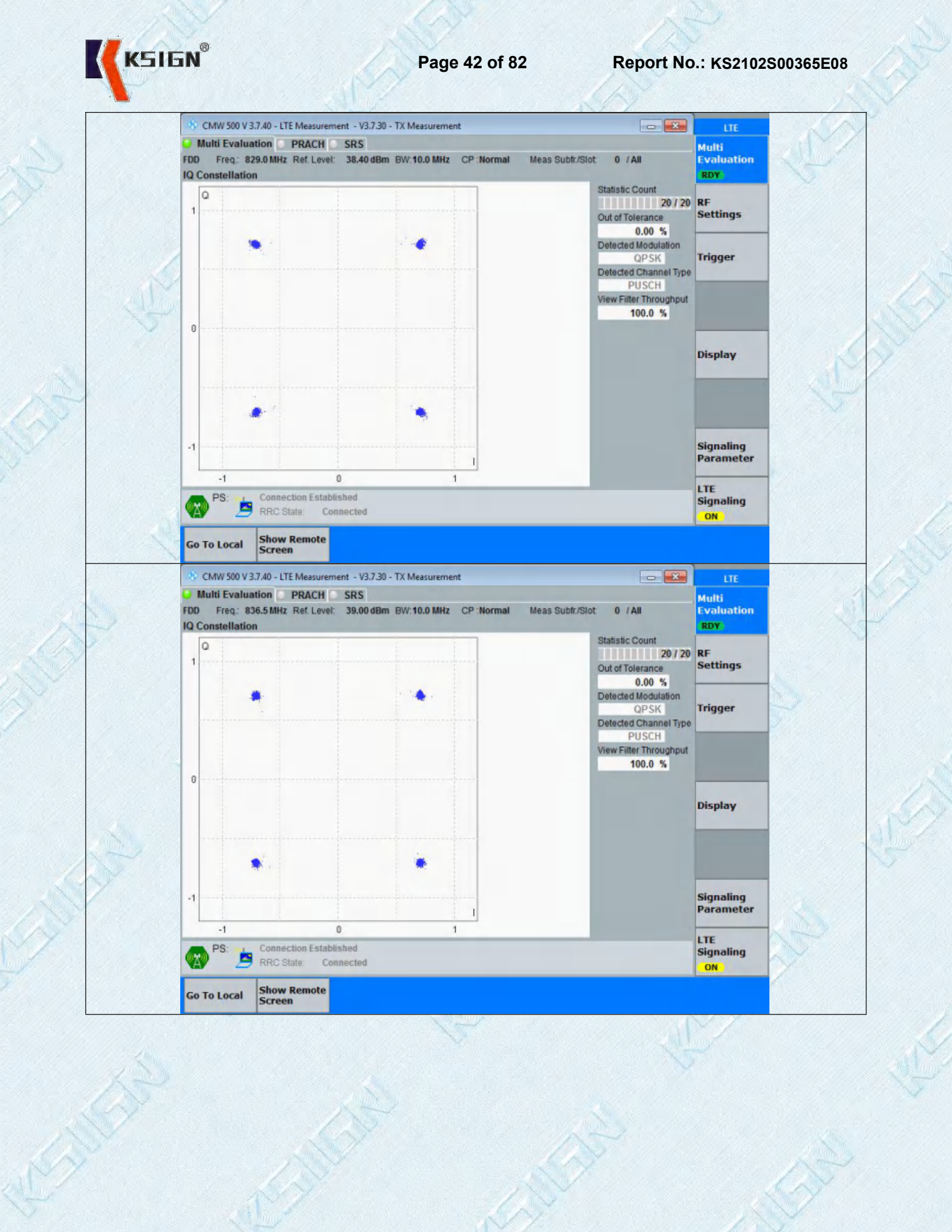


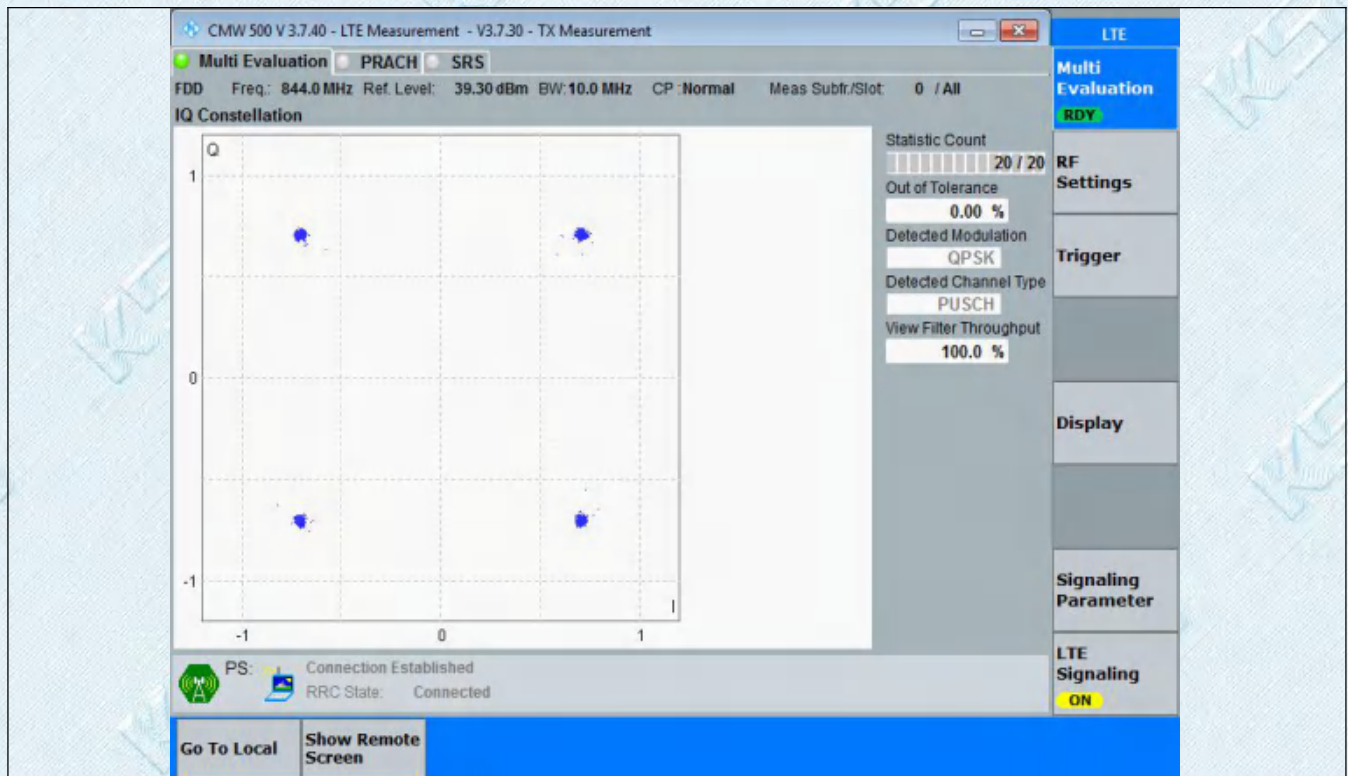
Test Band 5 _10MHz Bandwidth

Test Graph





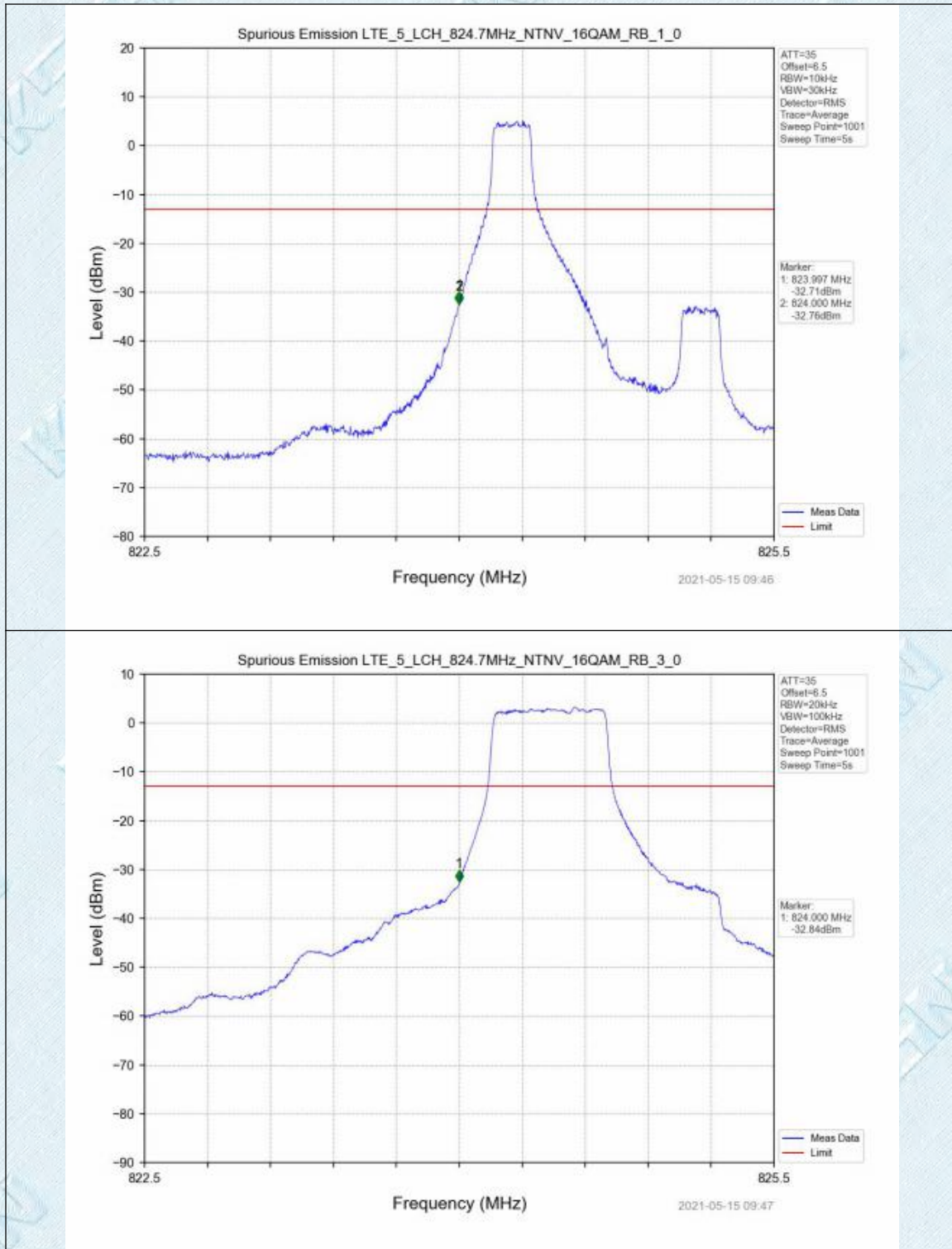


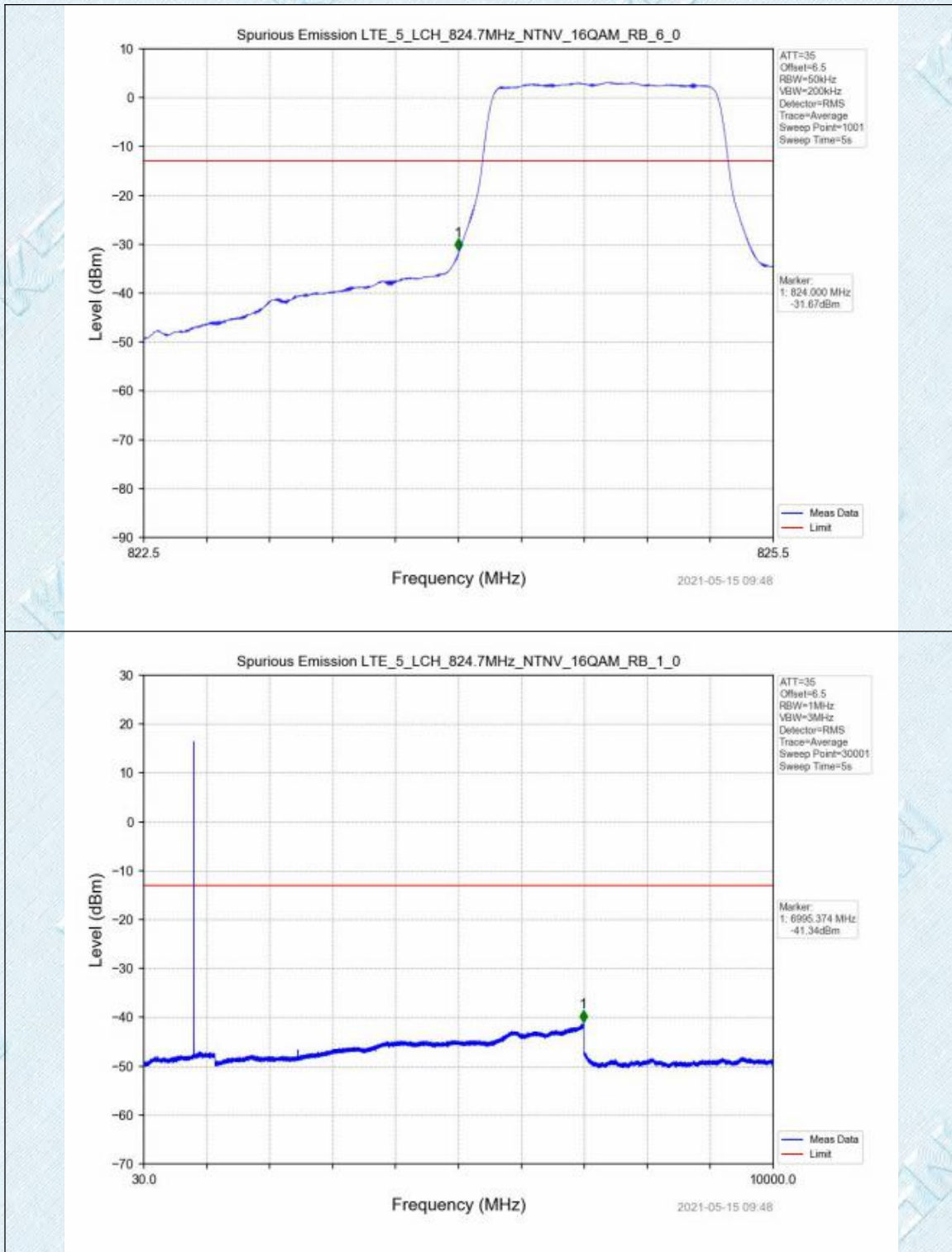


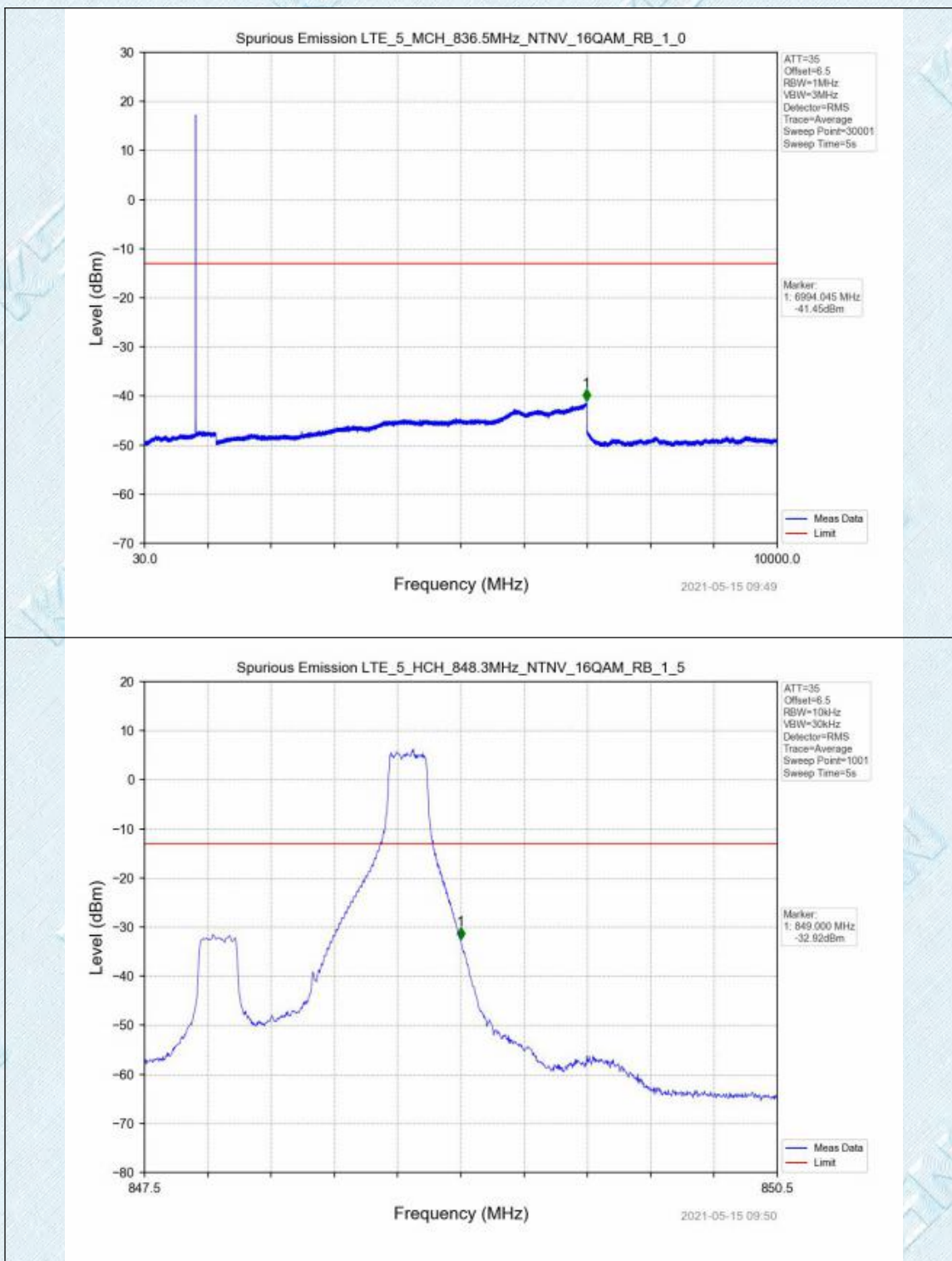
4.Spurious Emission

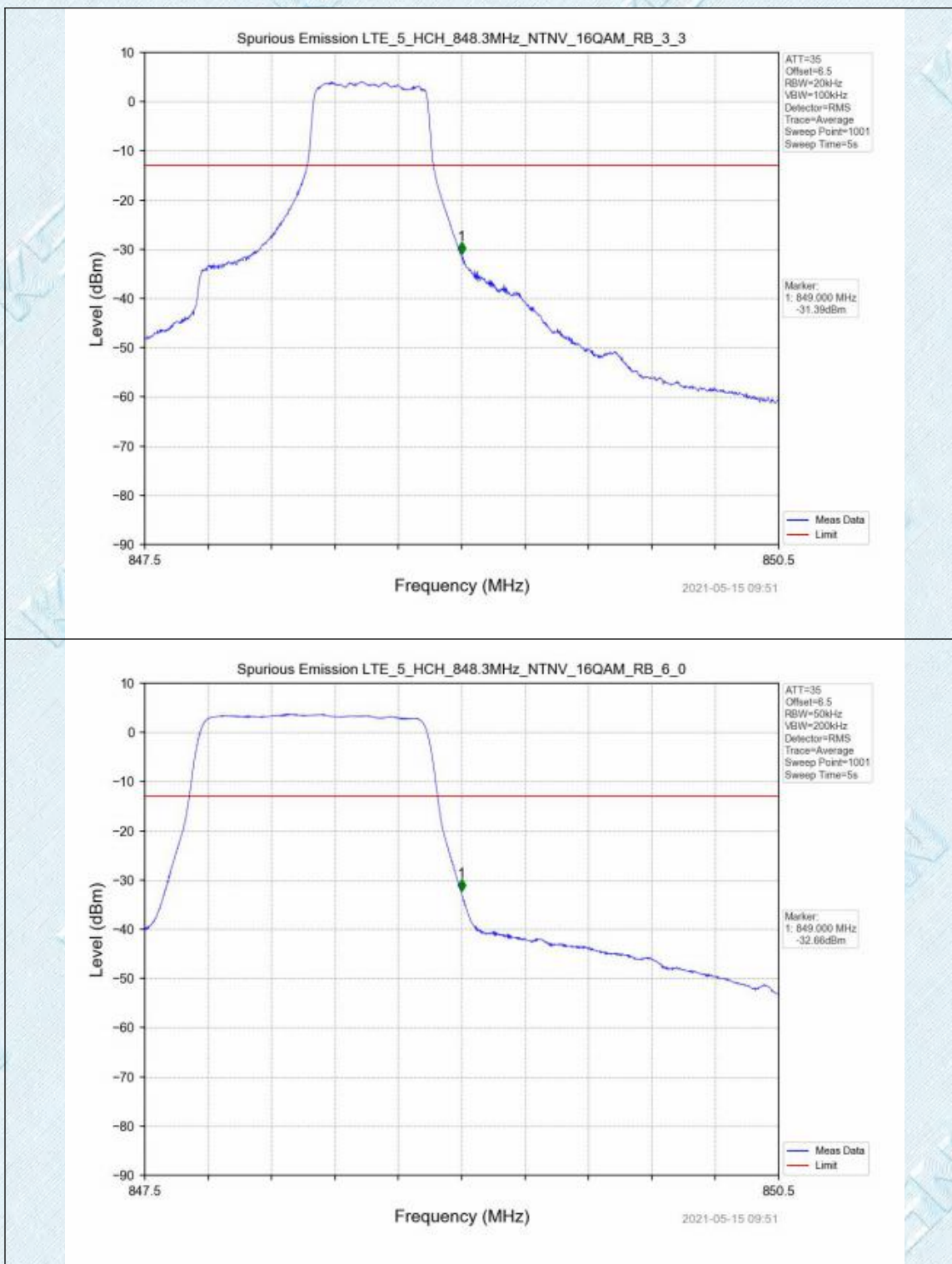
Test Band 5 _1.4MHz Bandwidth

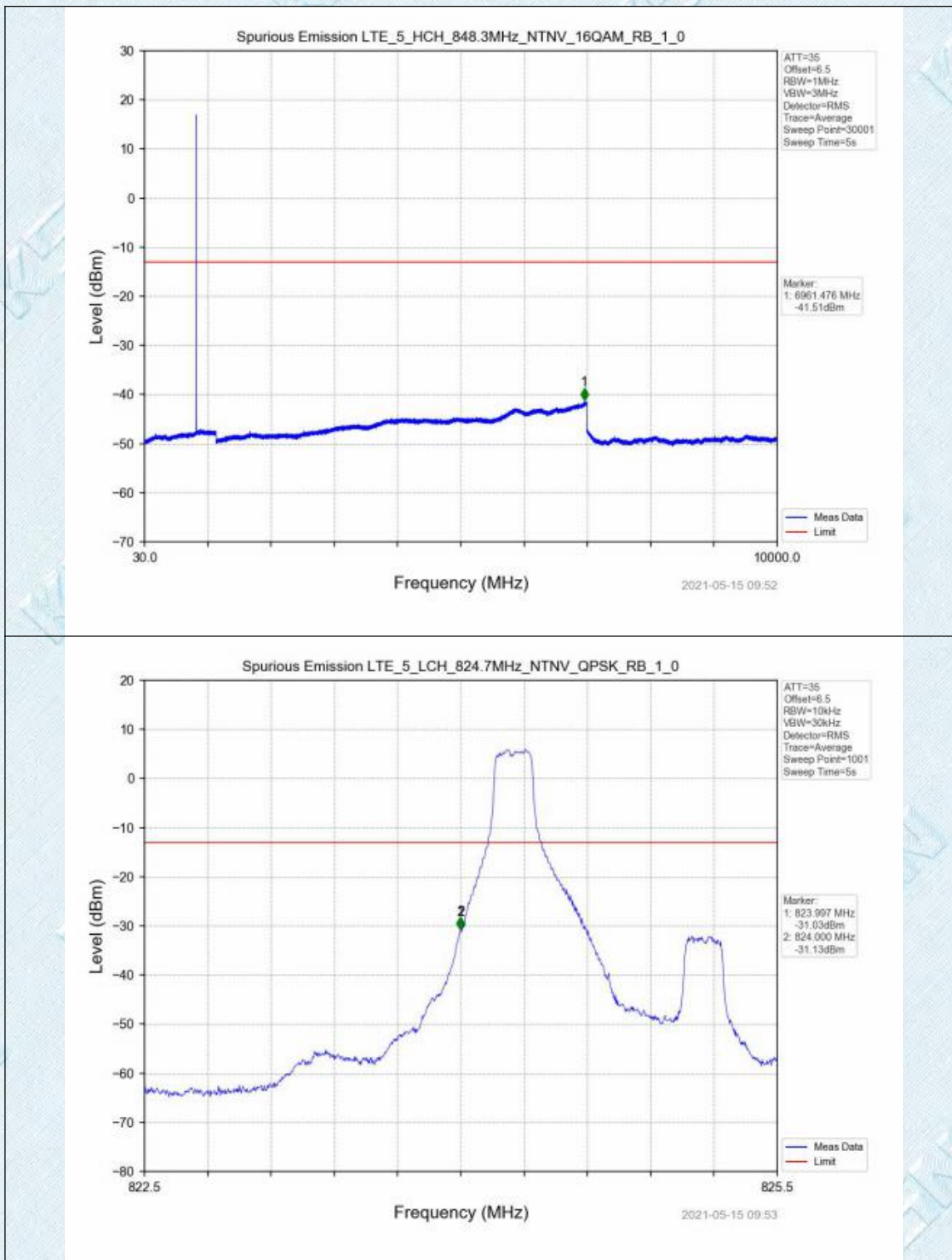
Test Graph

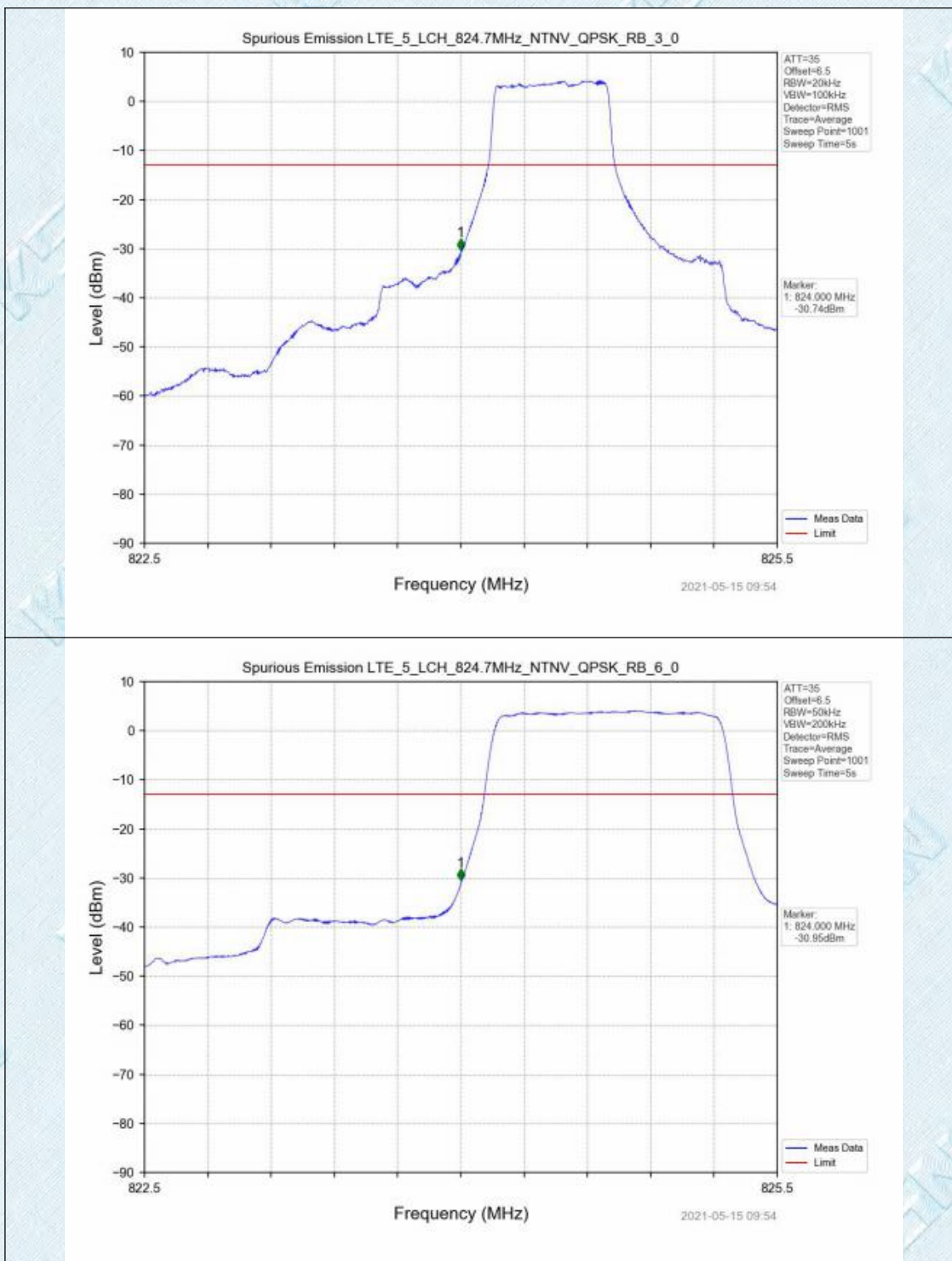


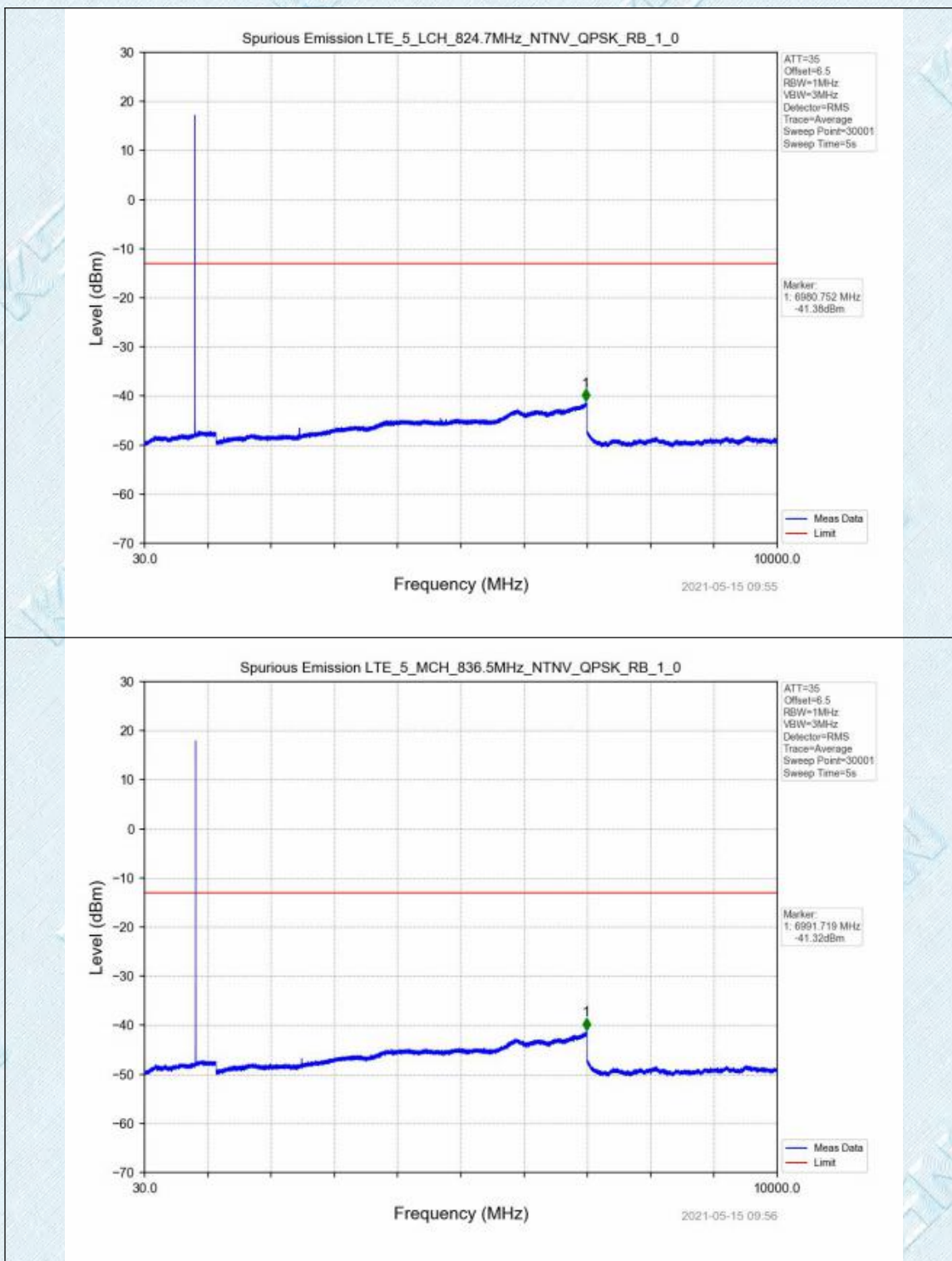


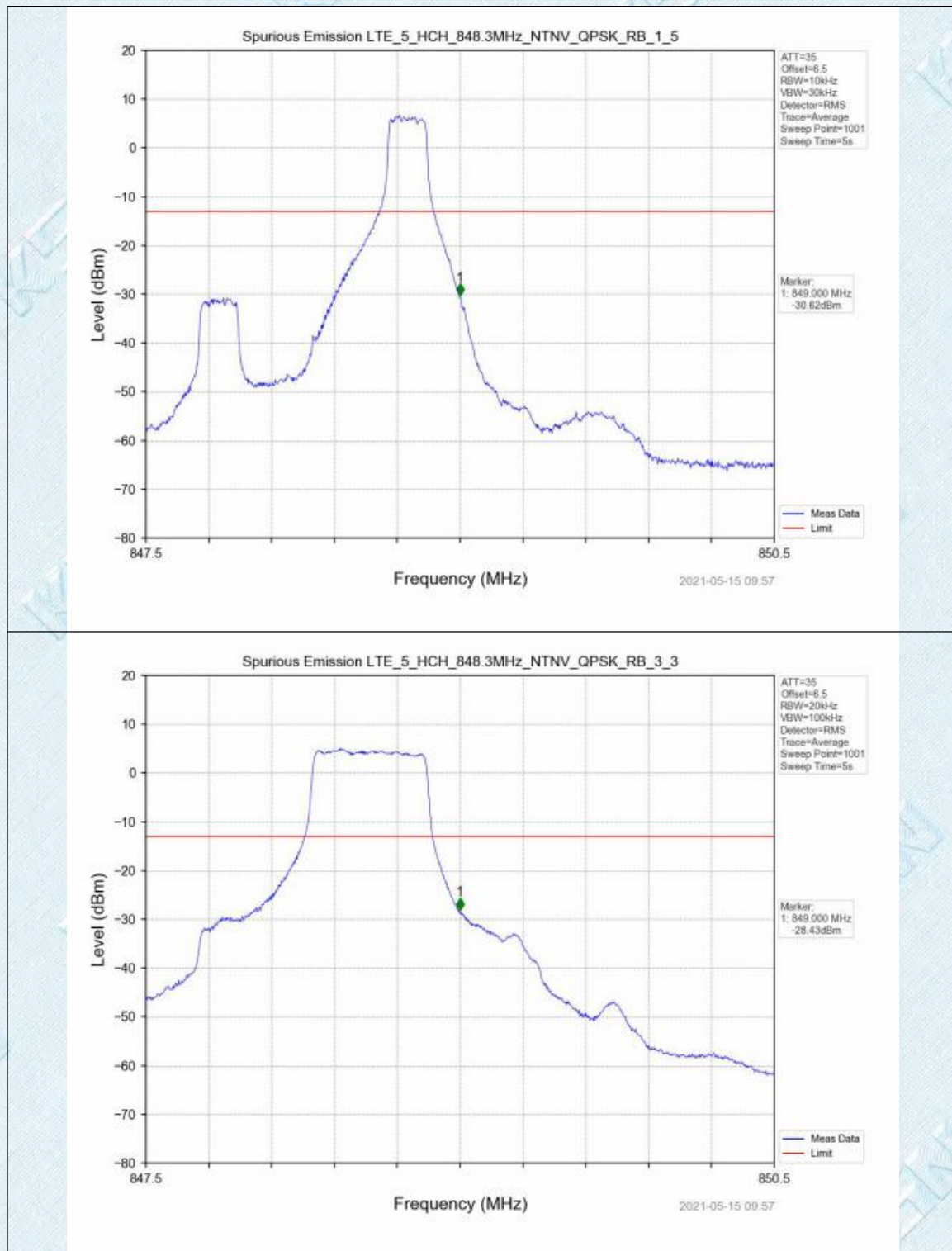


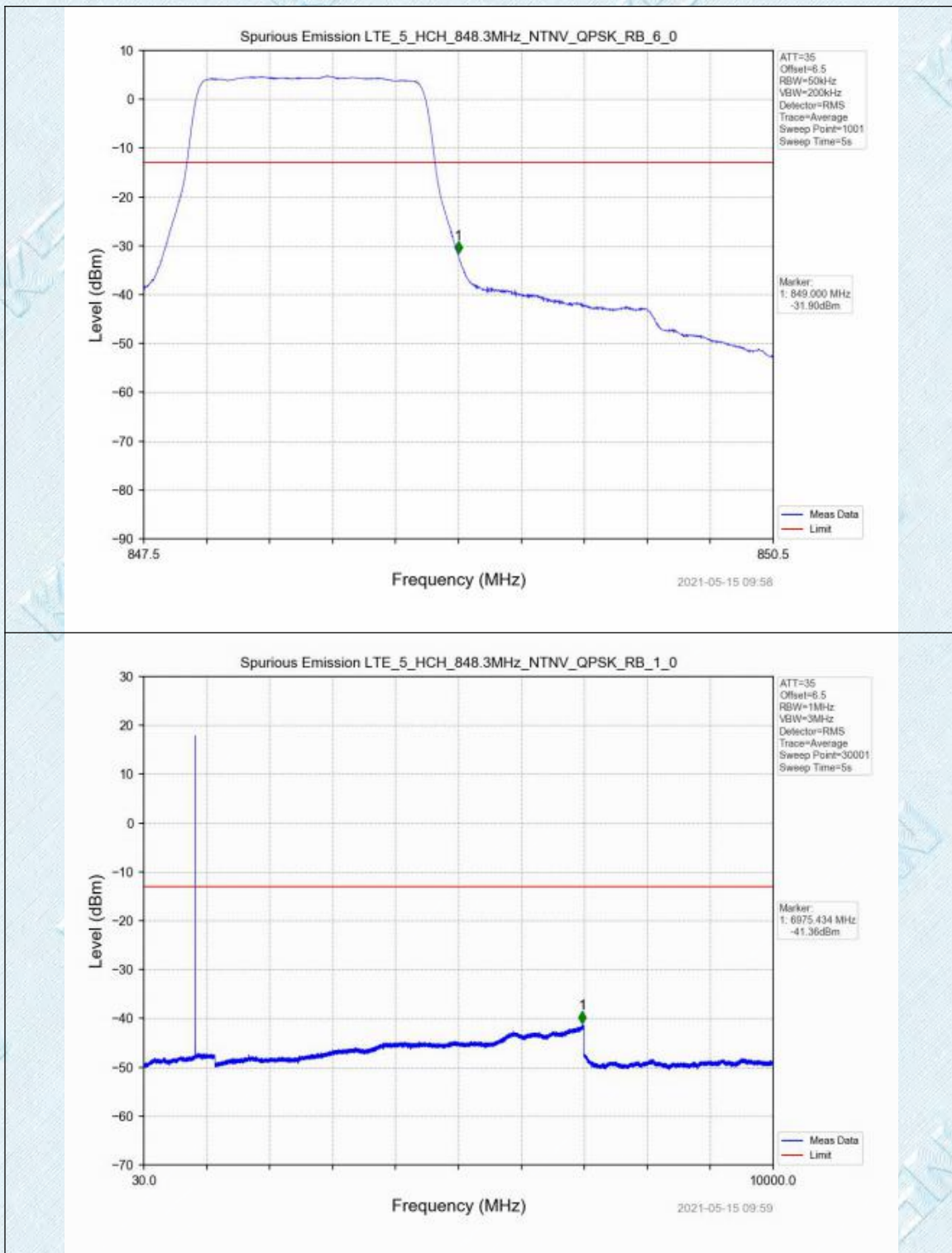






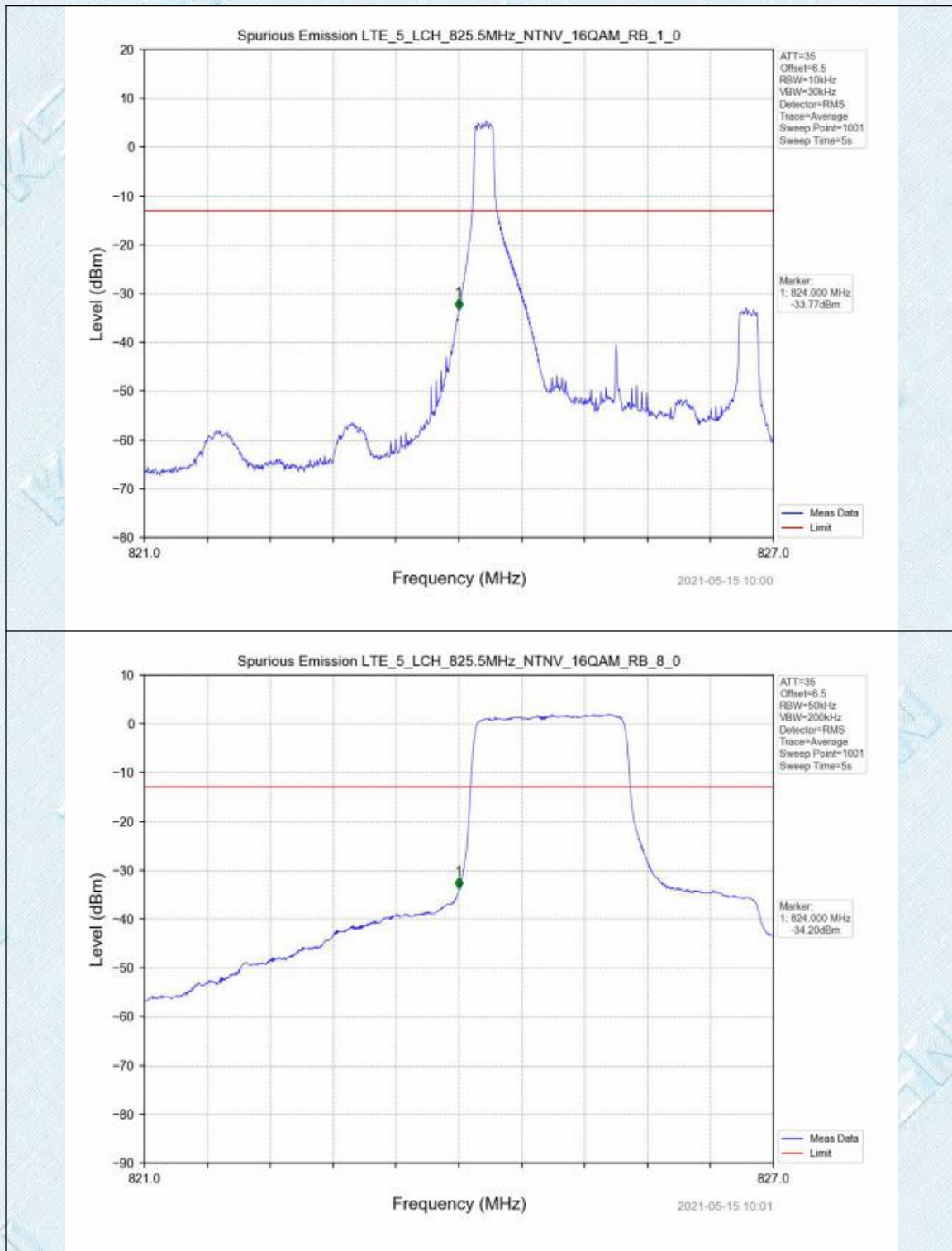


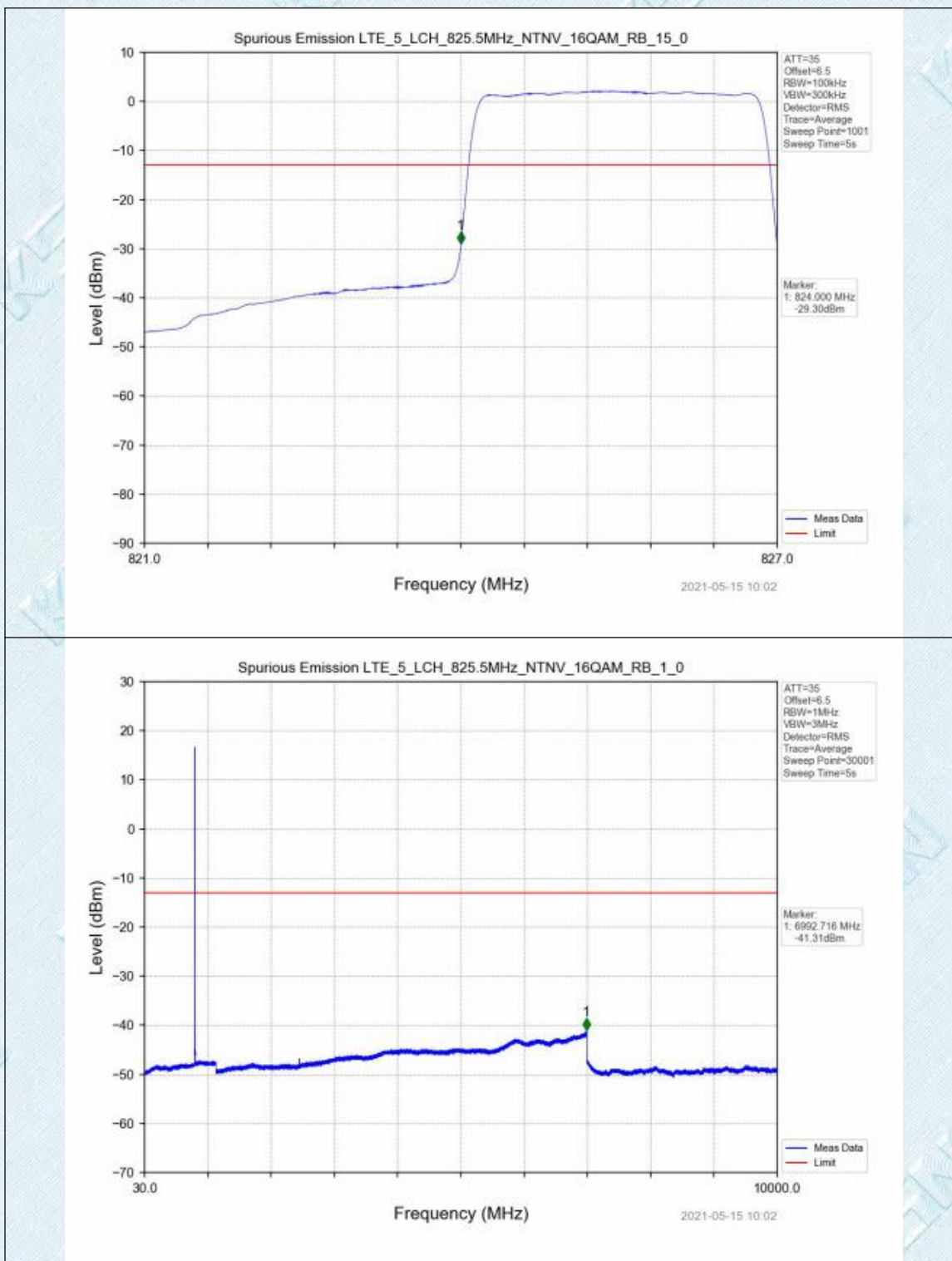


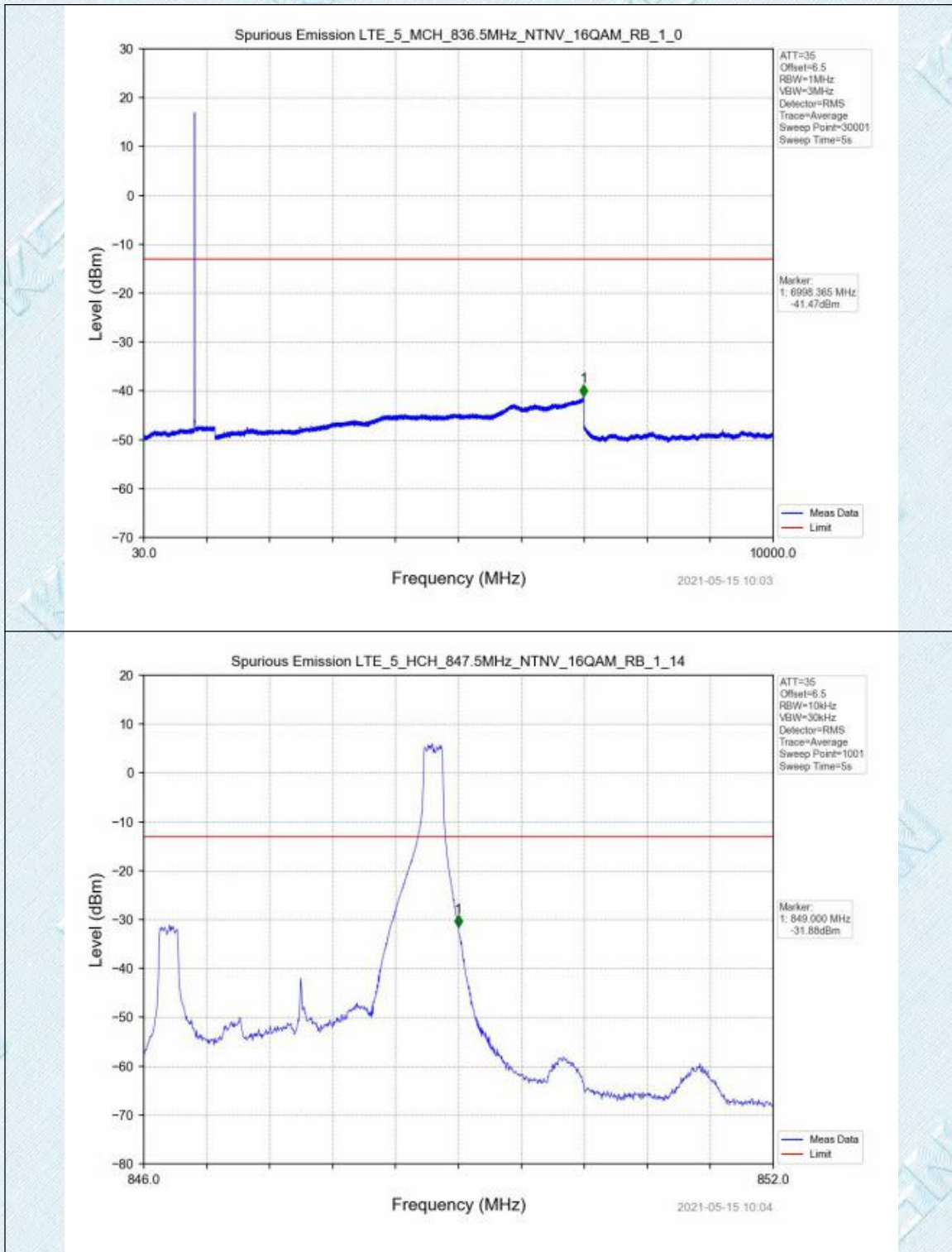


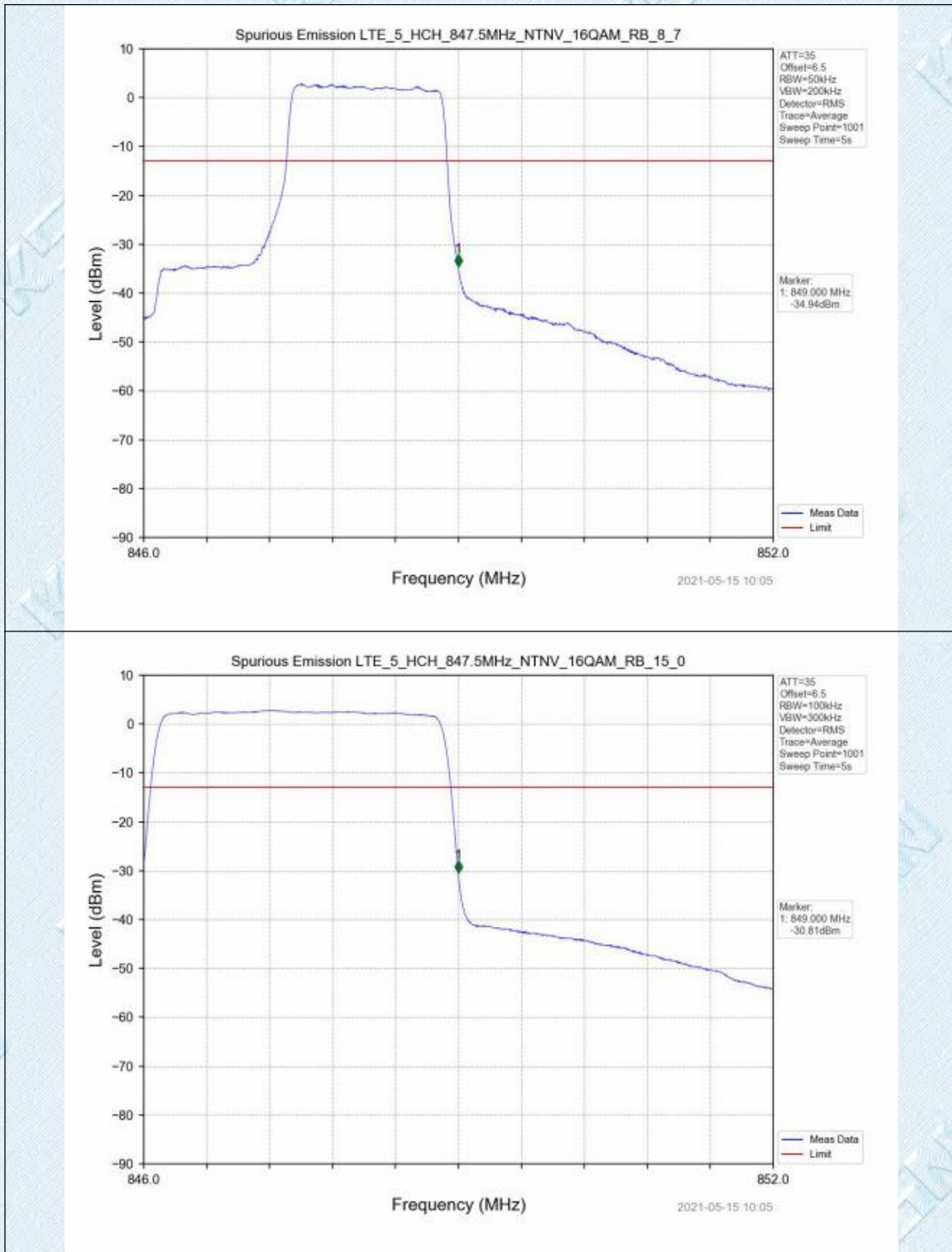
Test Band 5 _3MHz Bandwidth

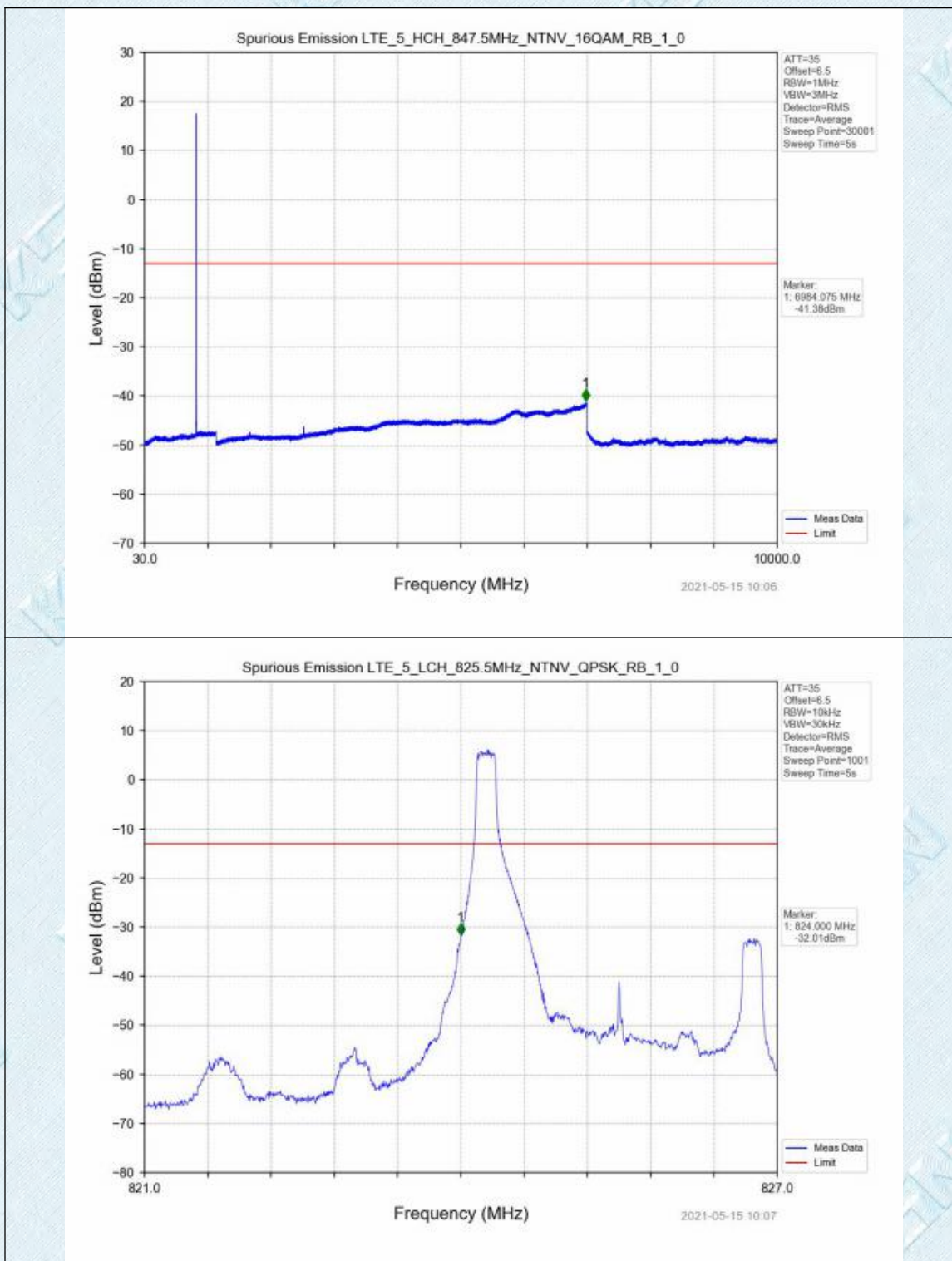
Test Graph

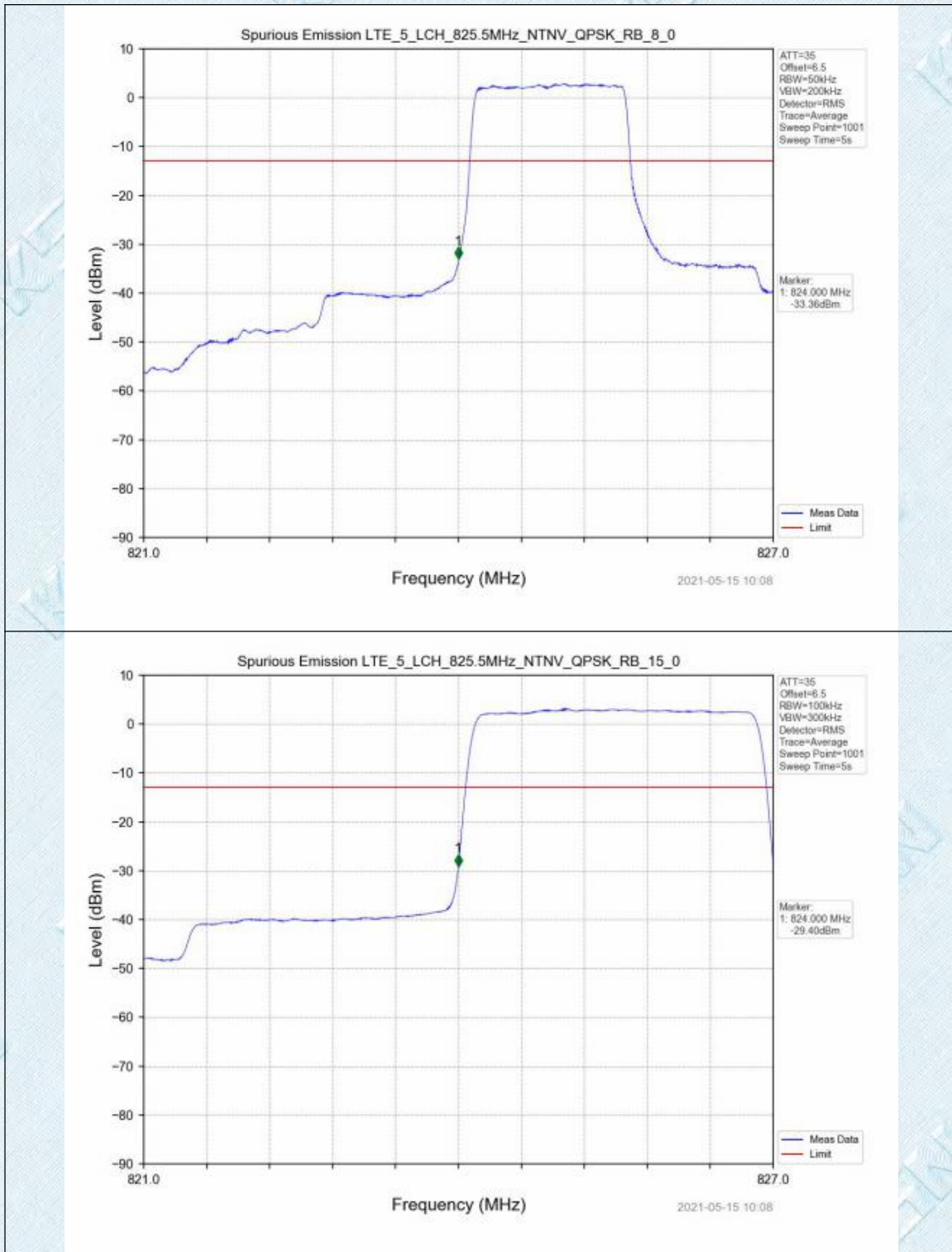


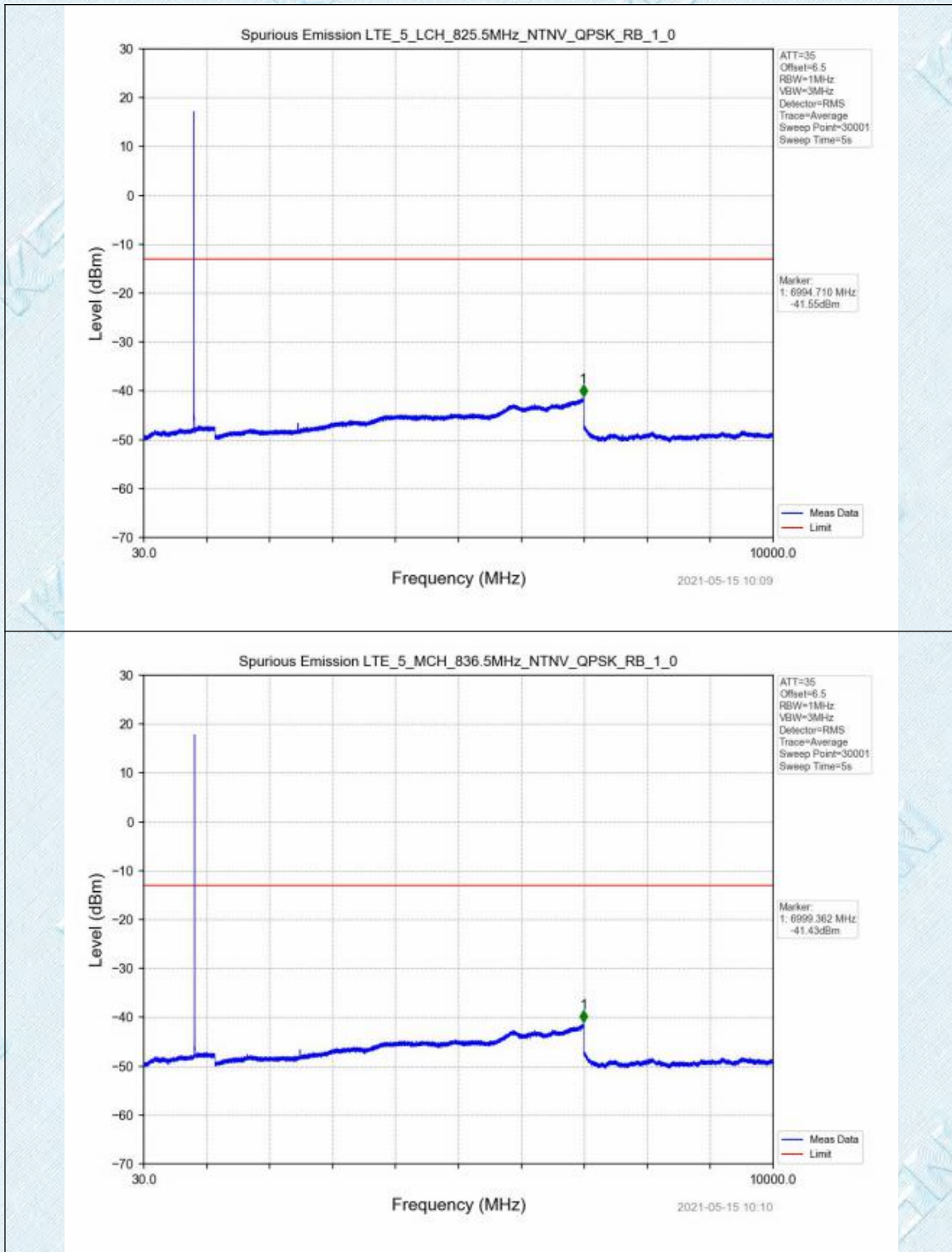


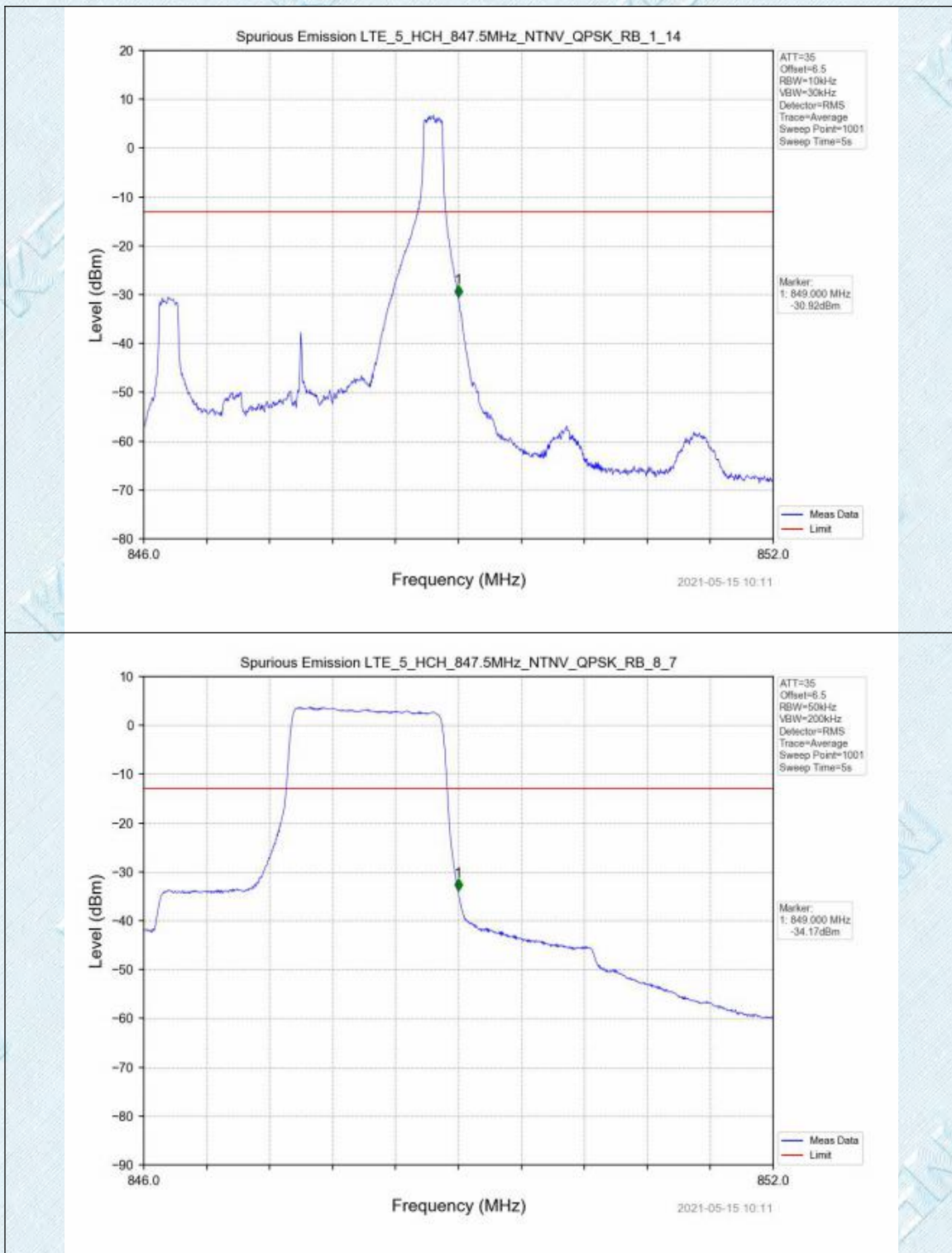


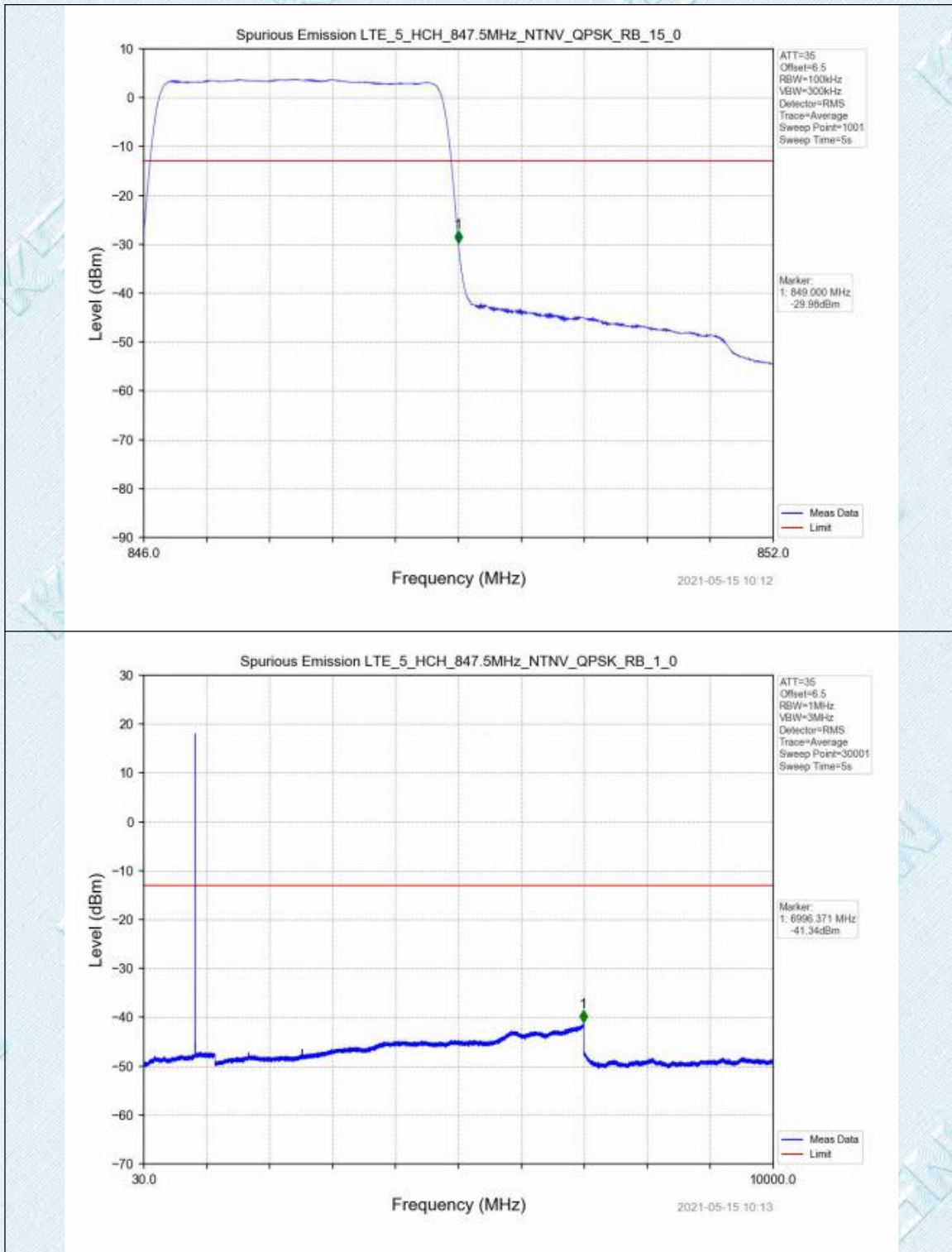






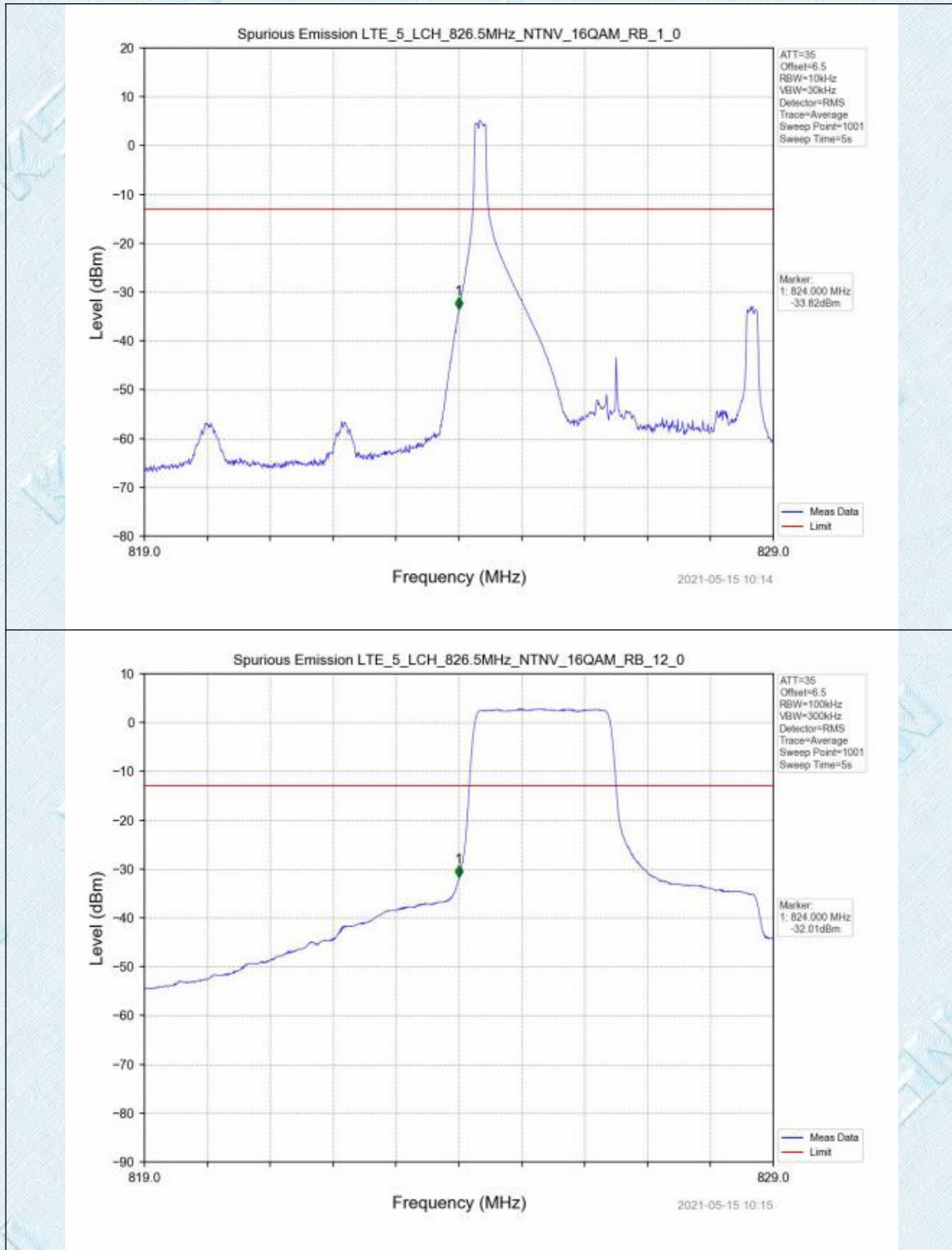


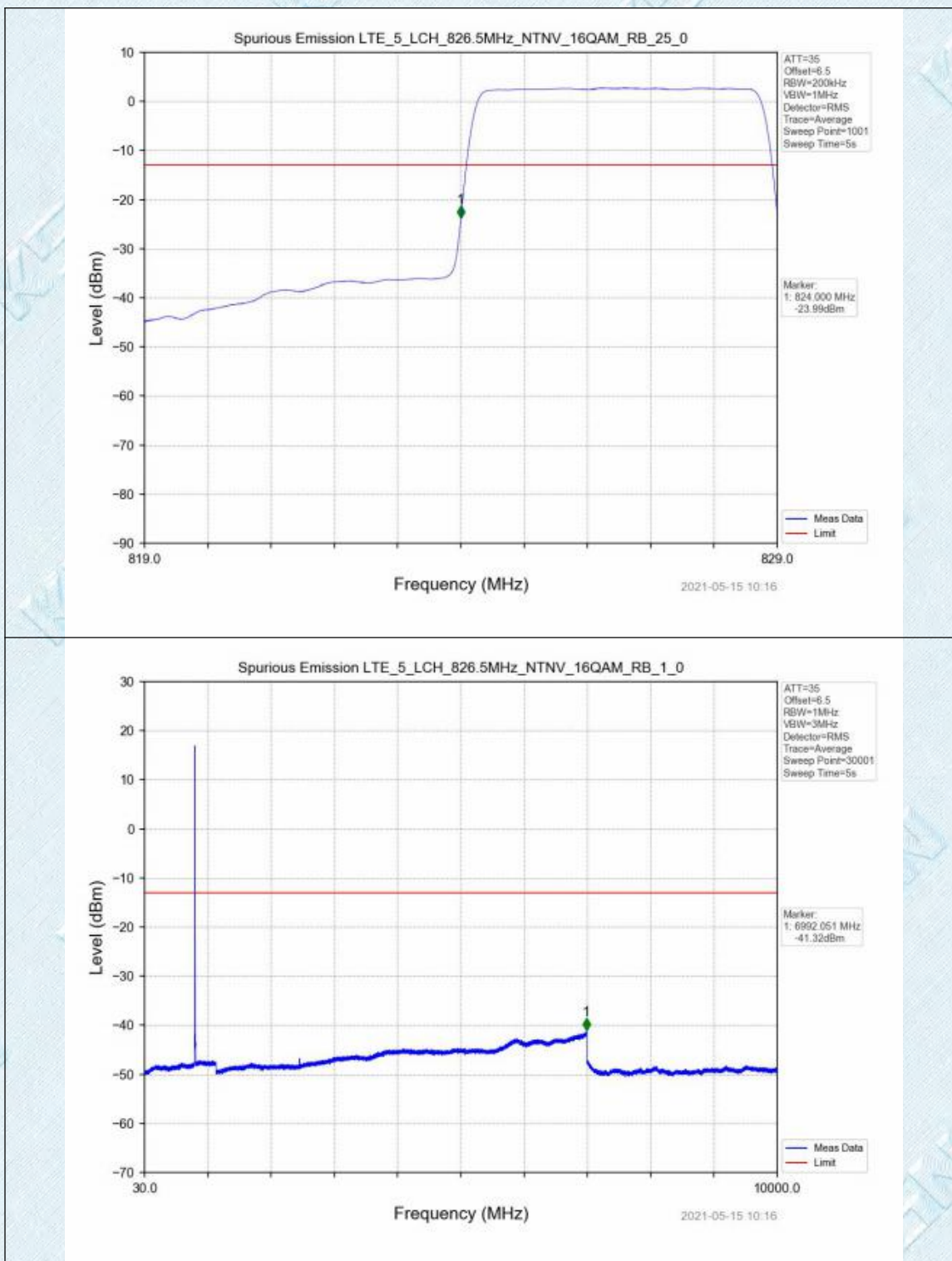


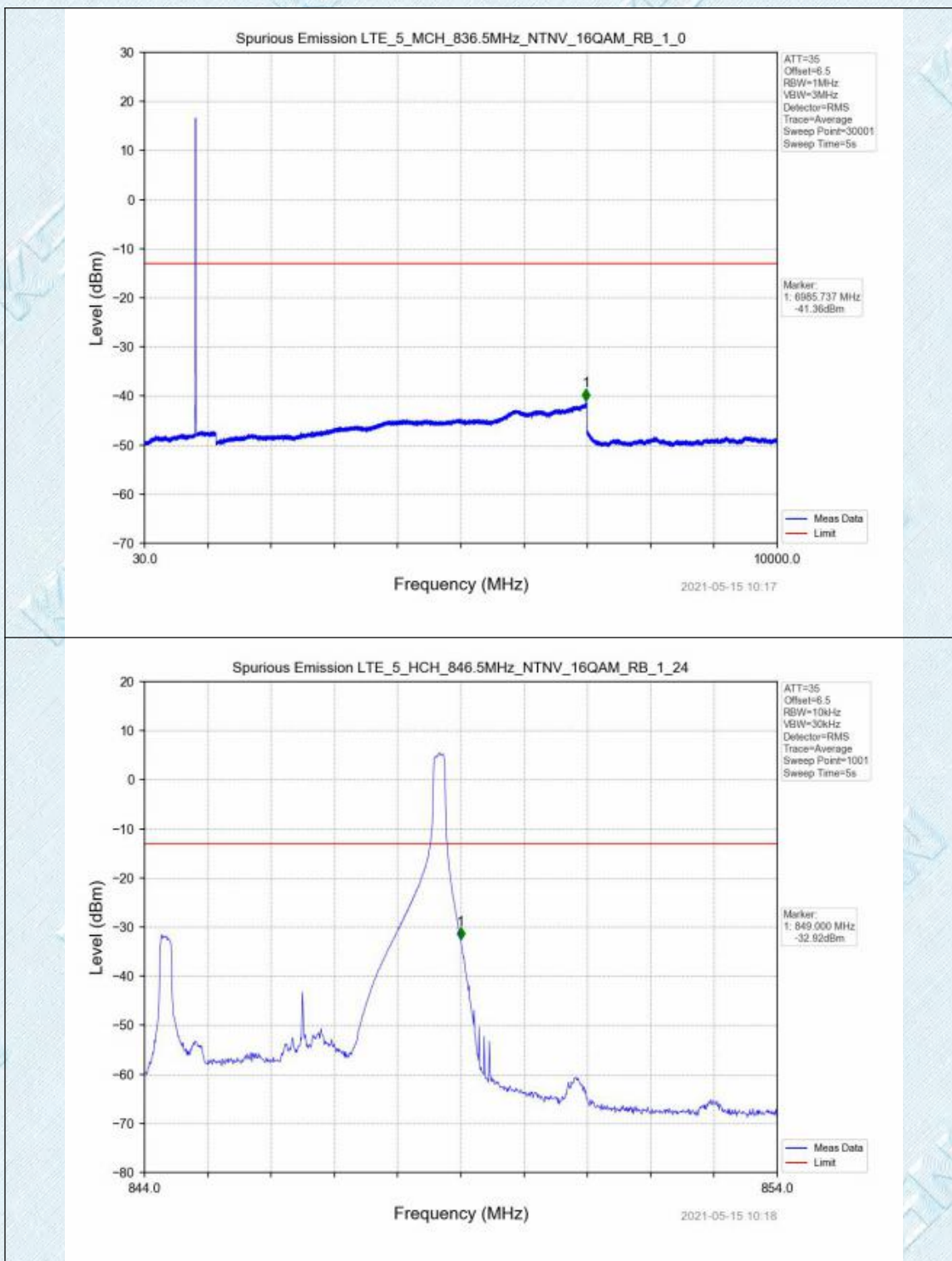


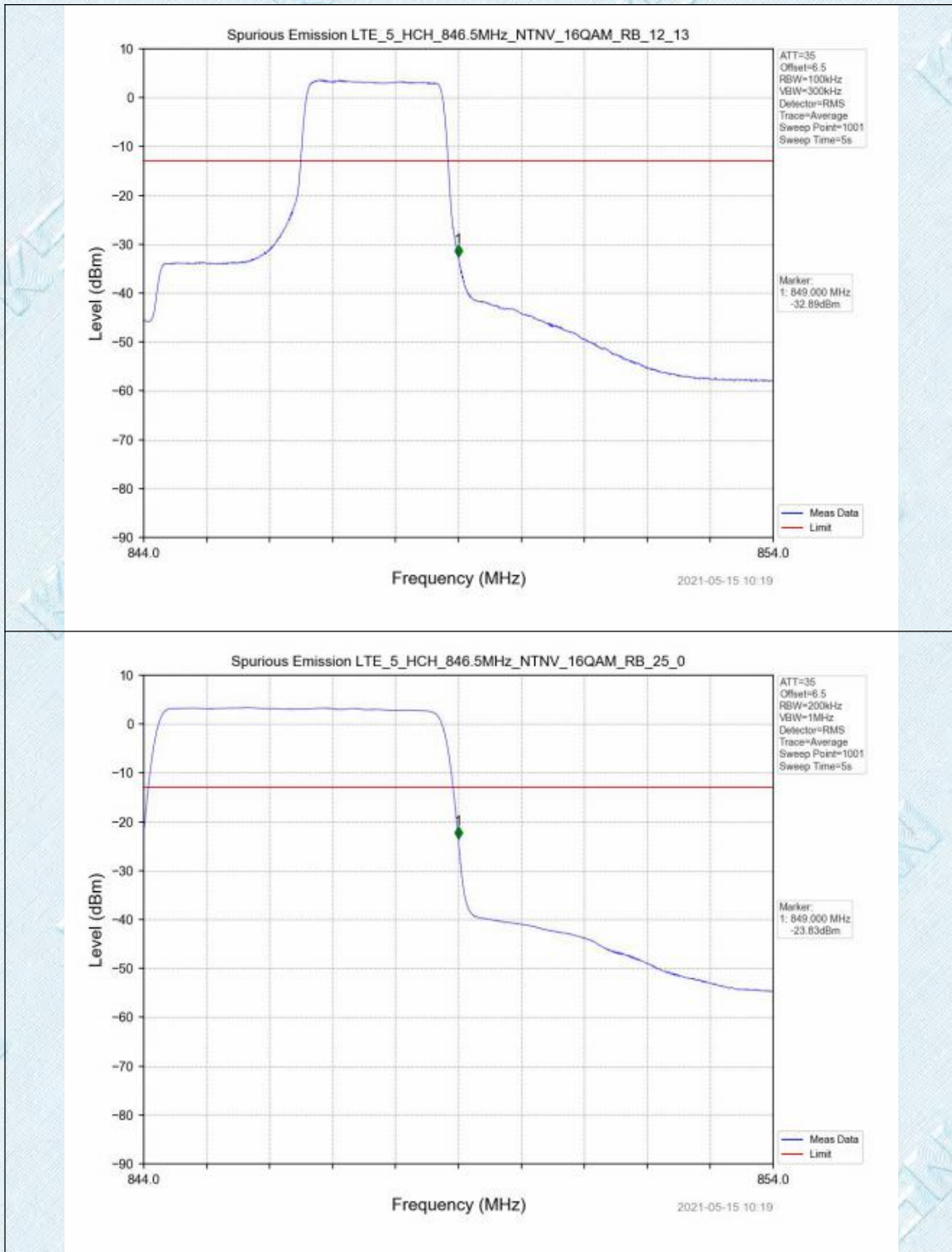
Test Band 5 _5MHz Bandwidth

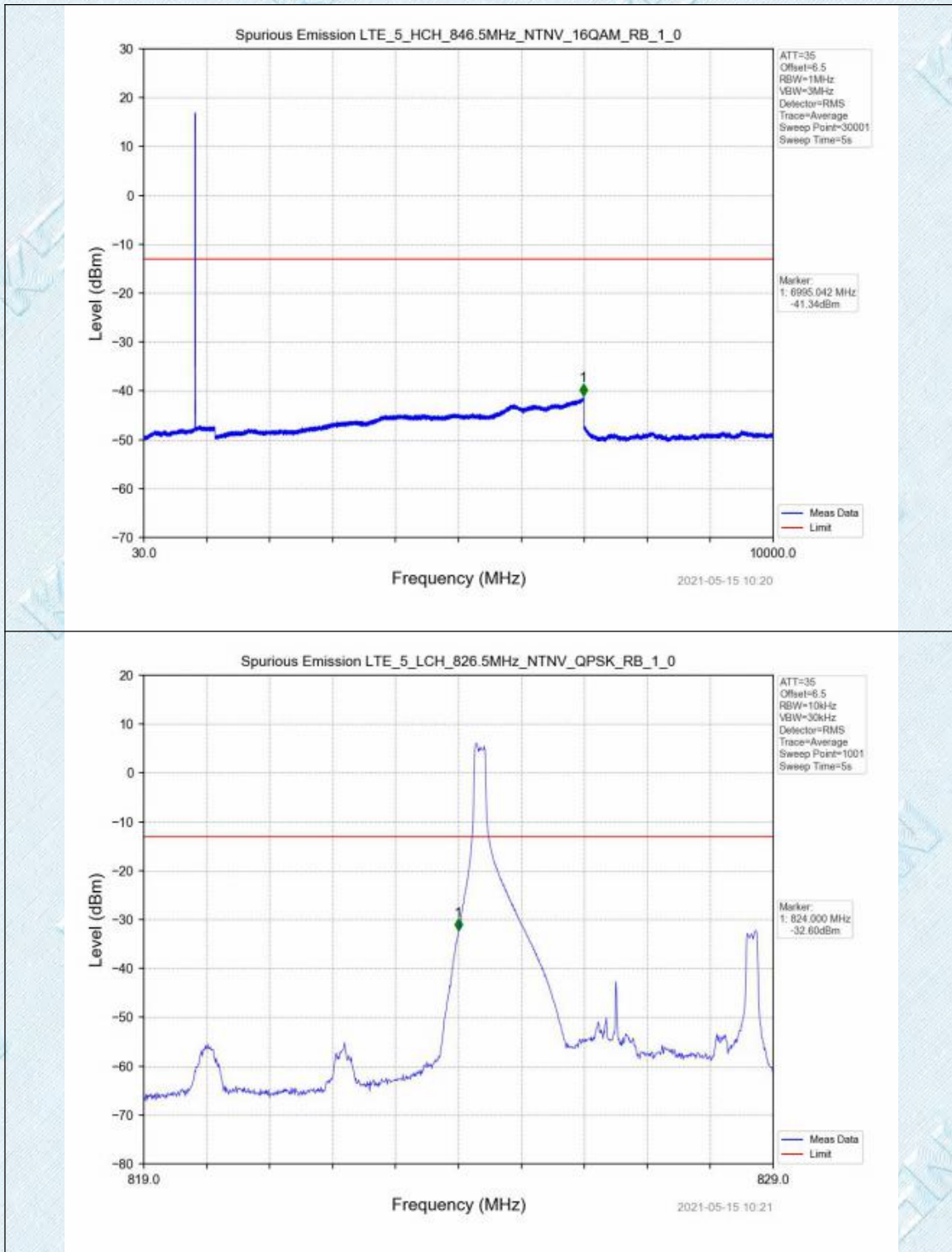
Test Graph

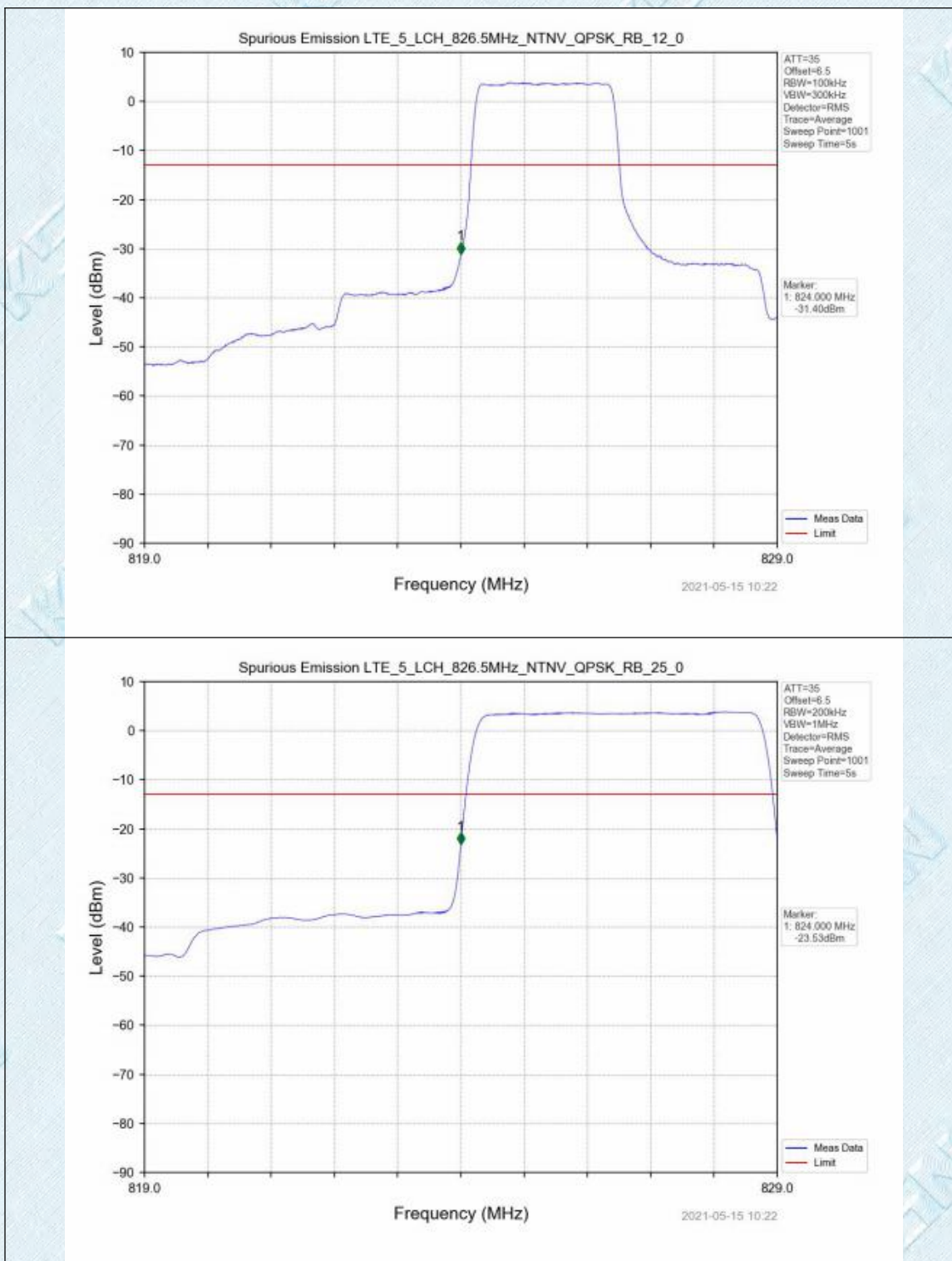


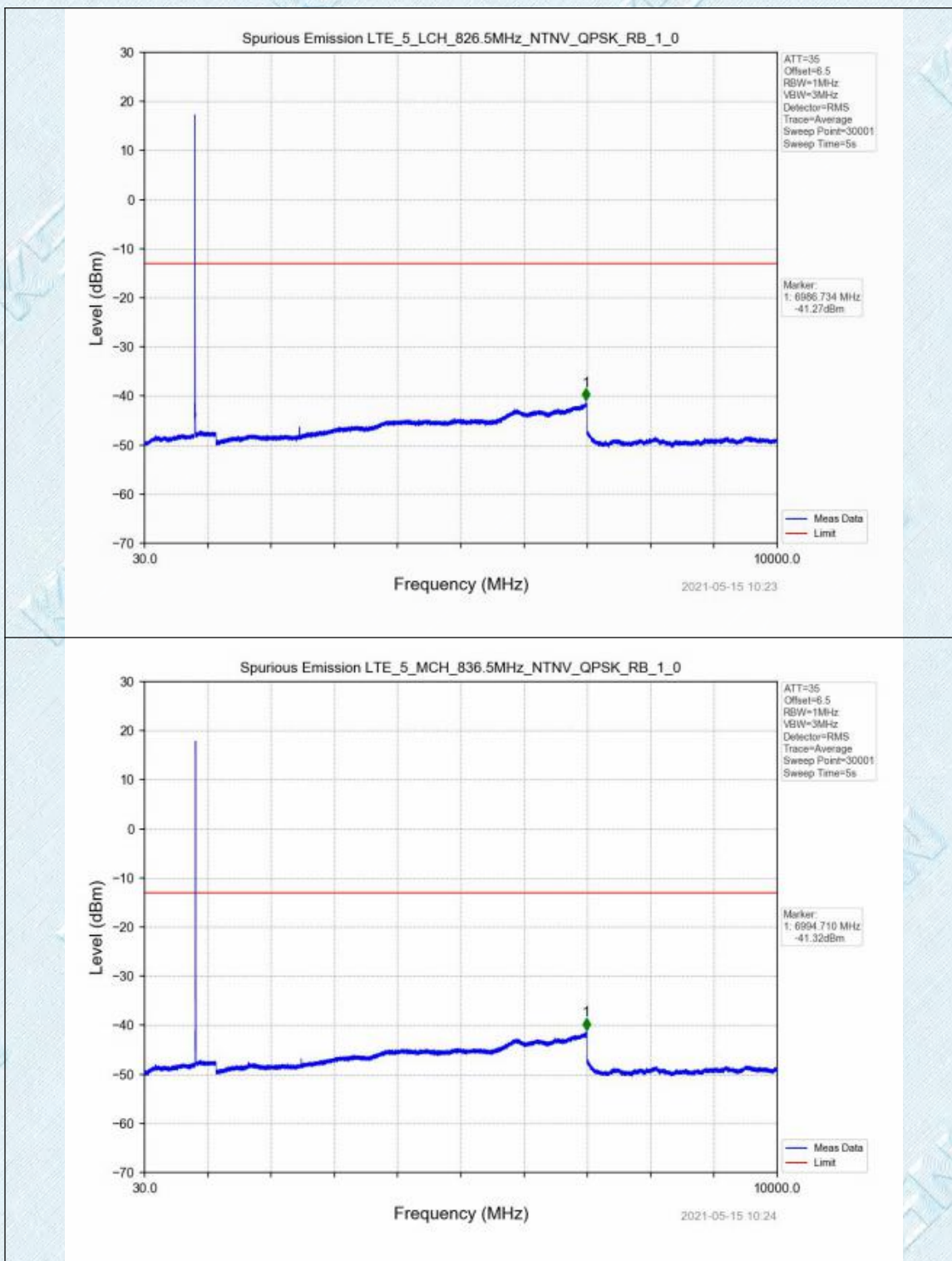


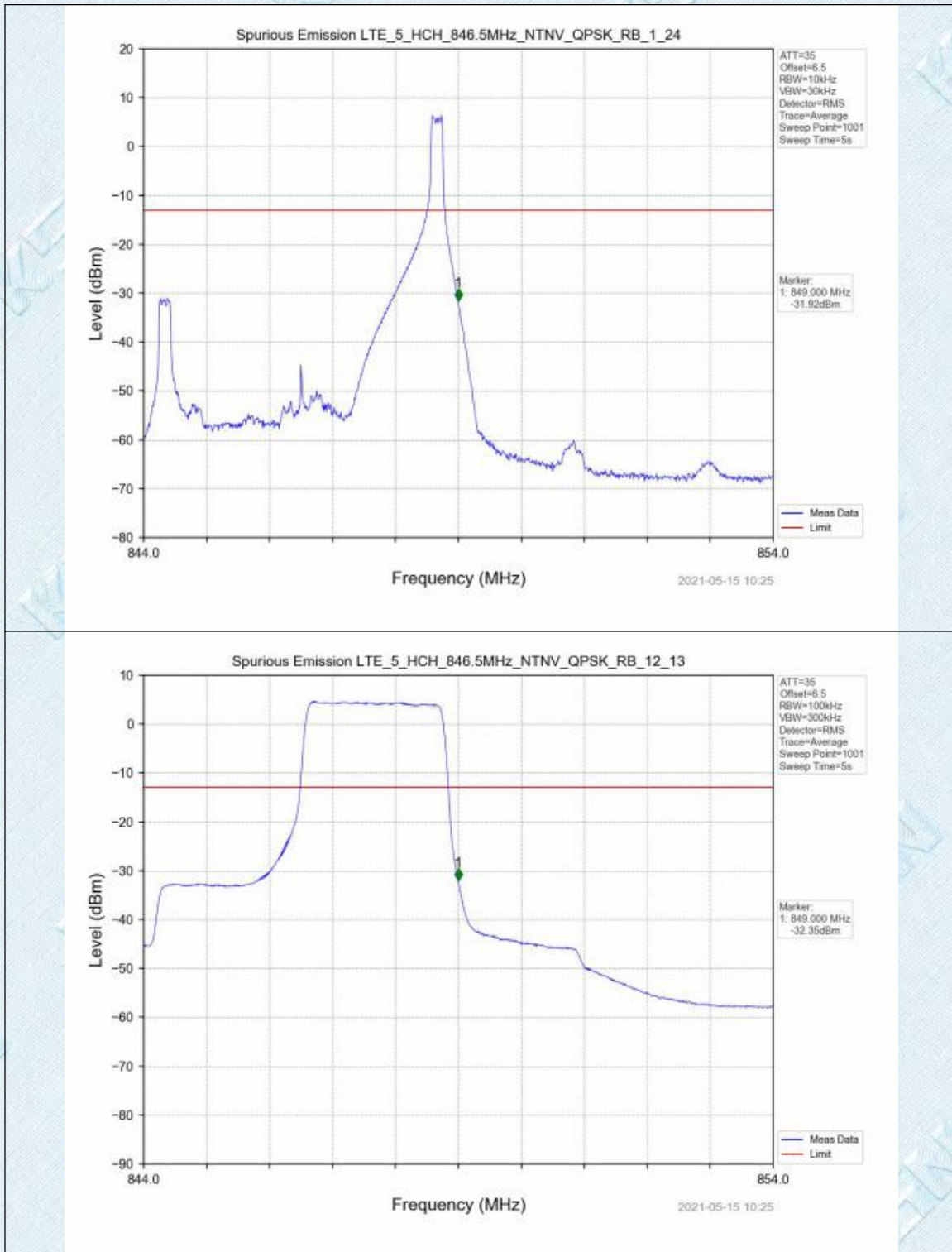


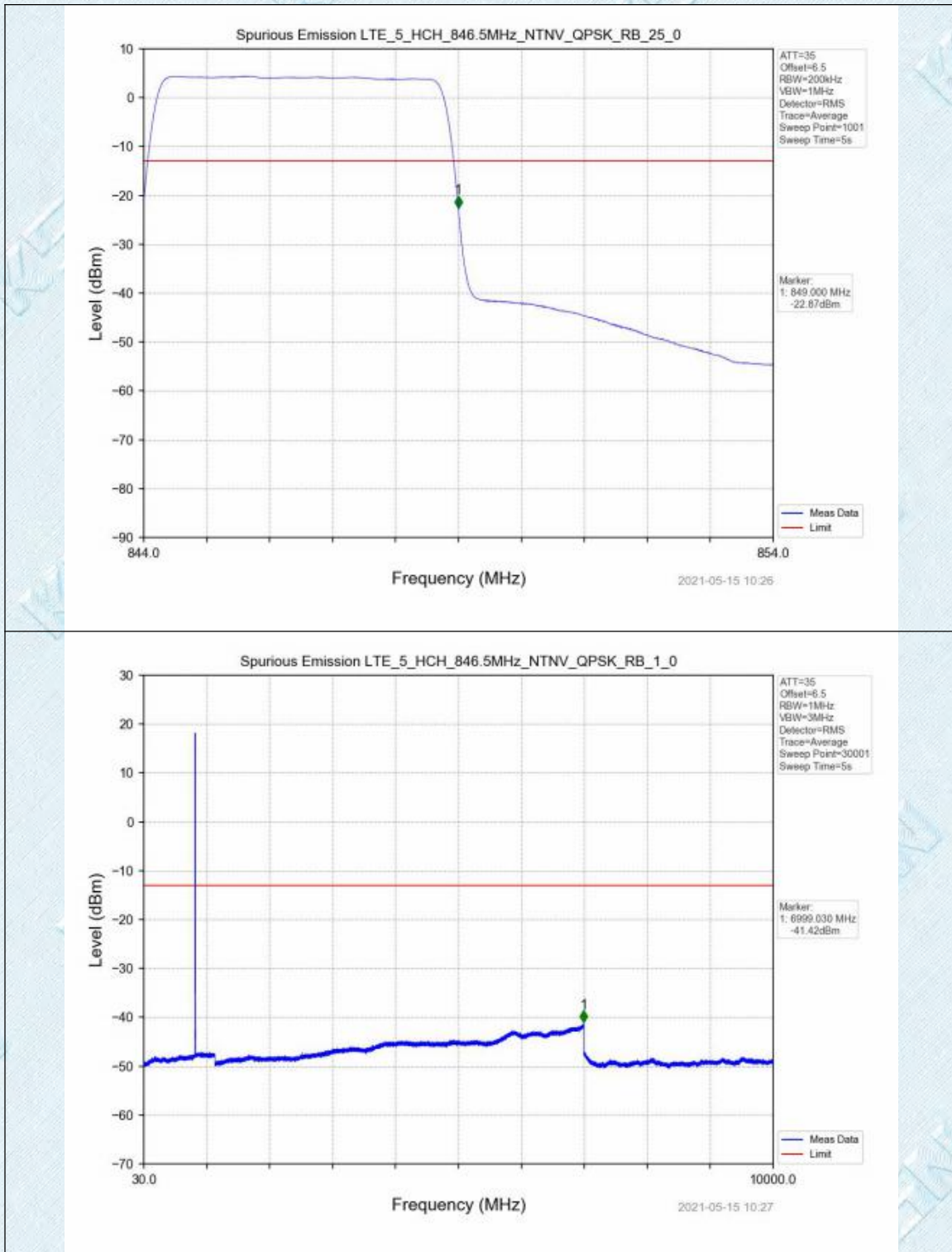






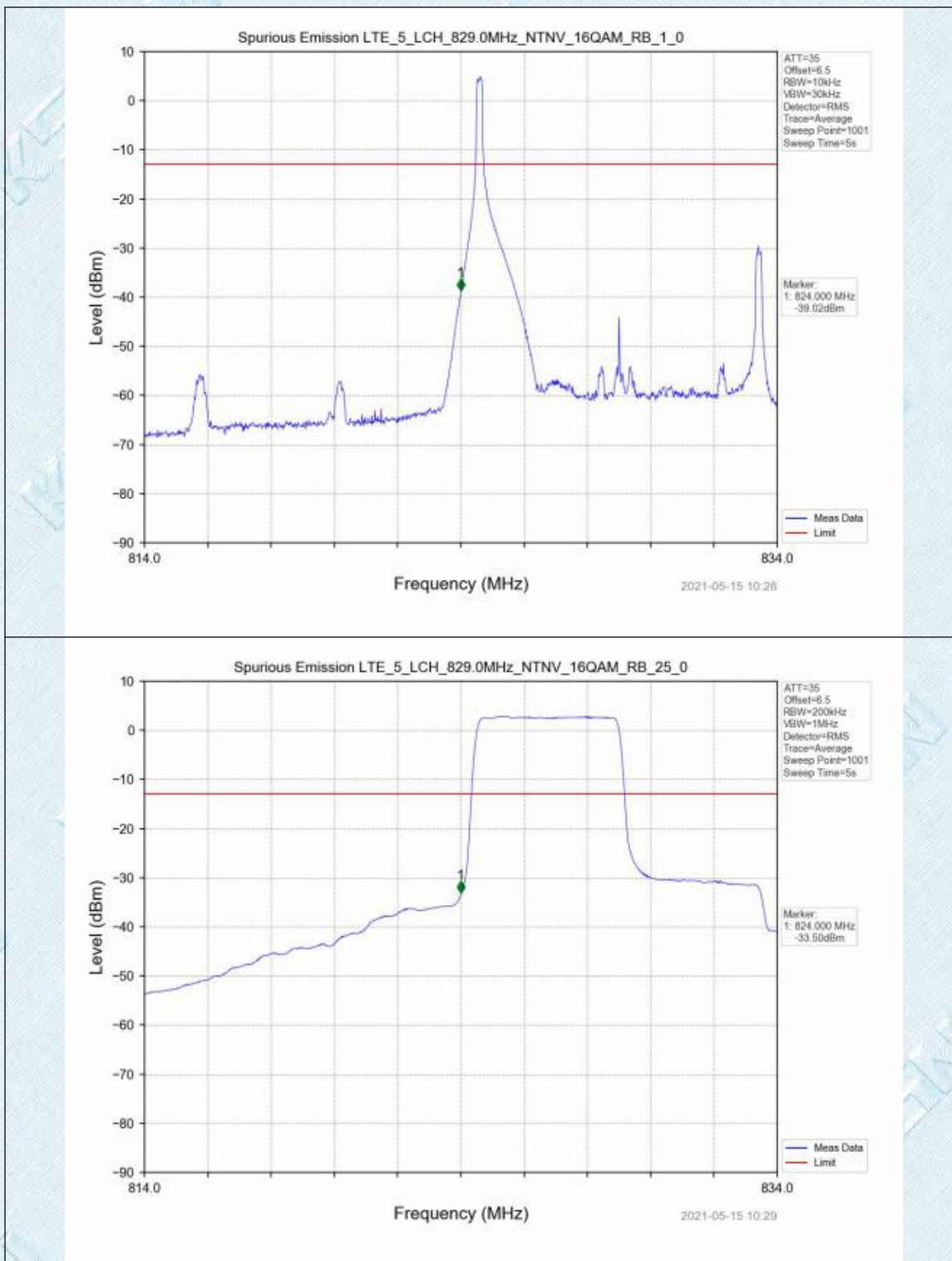


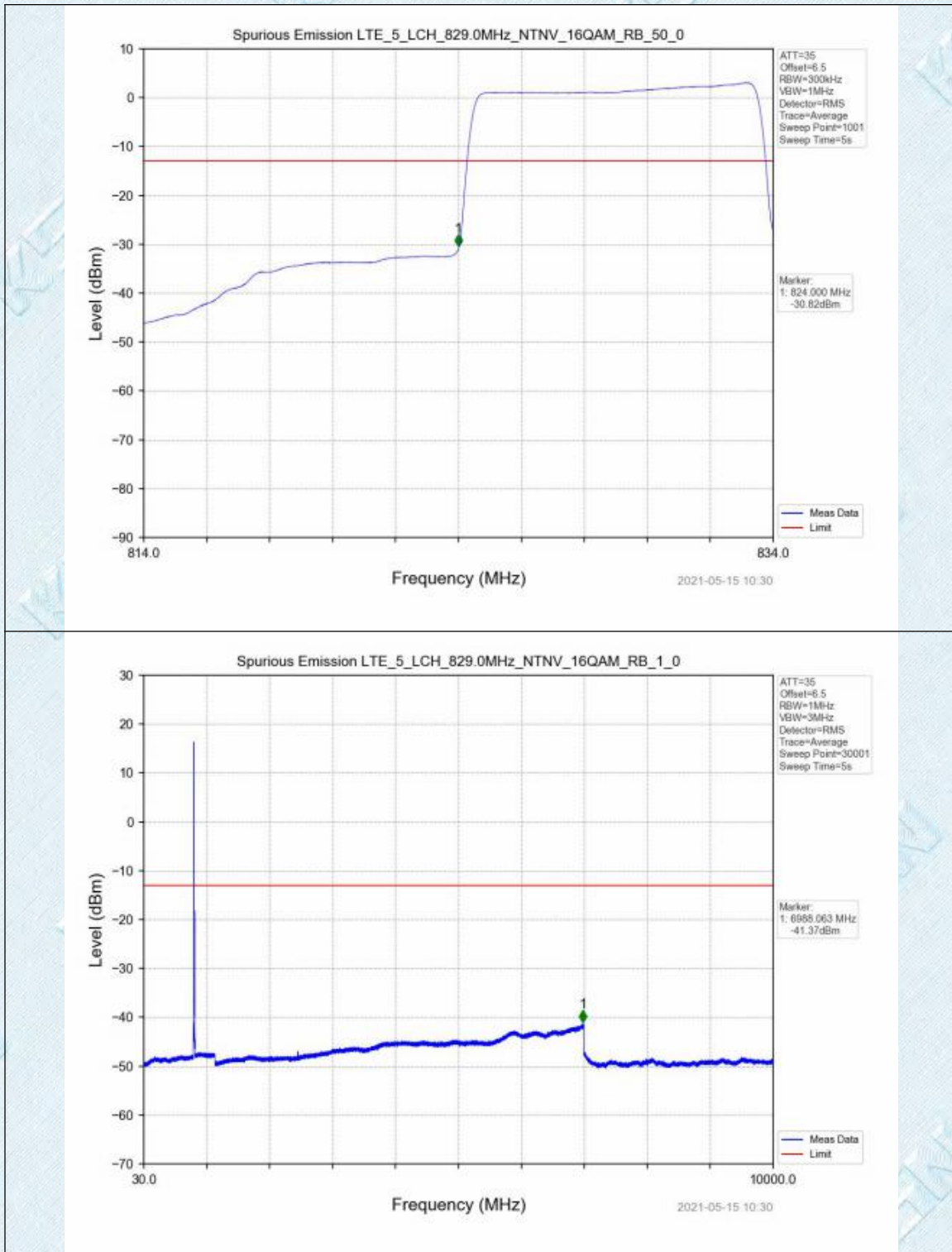


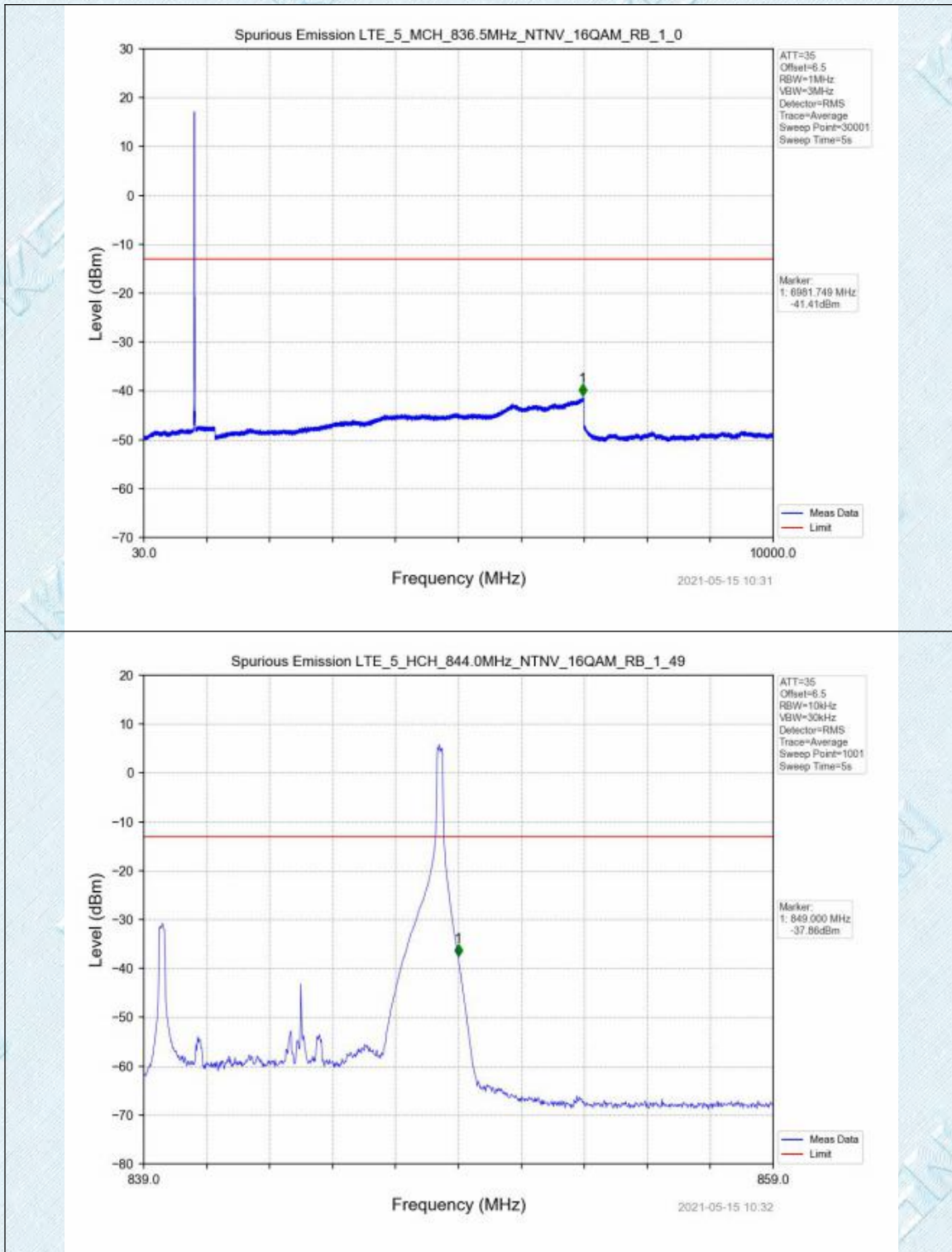


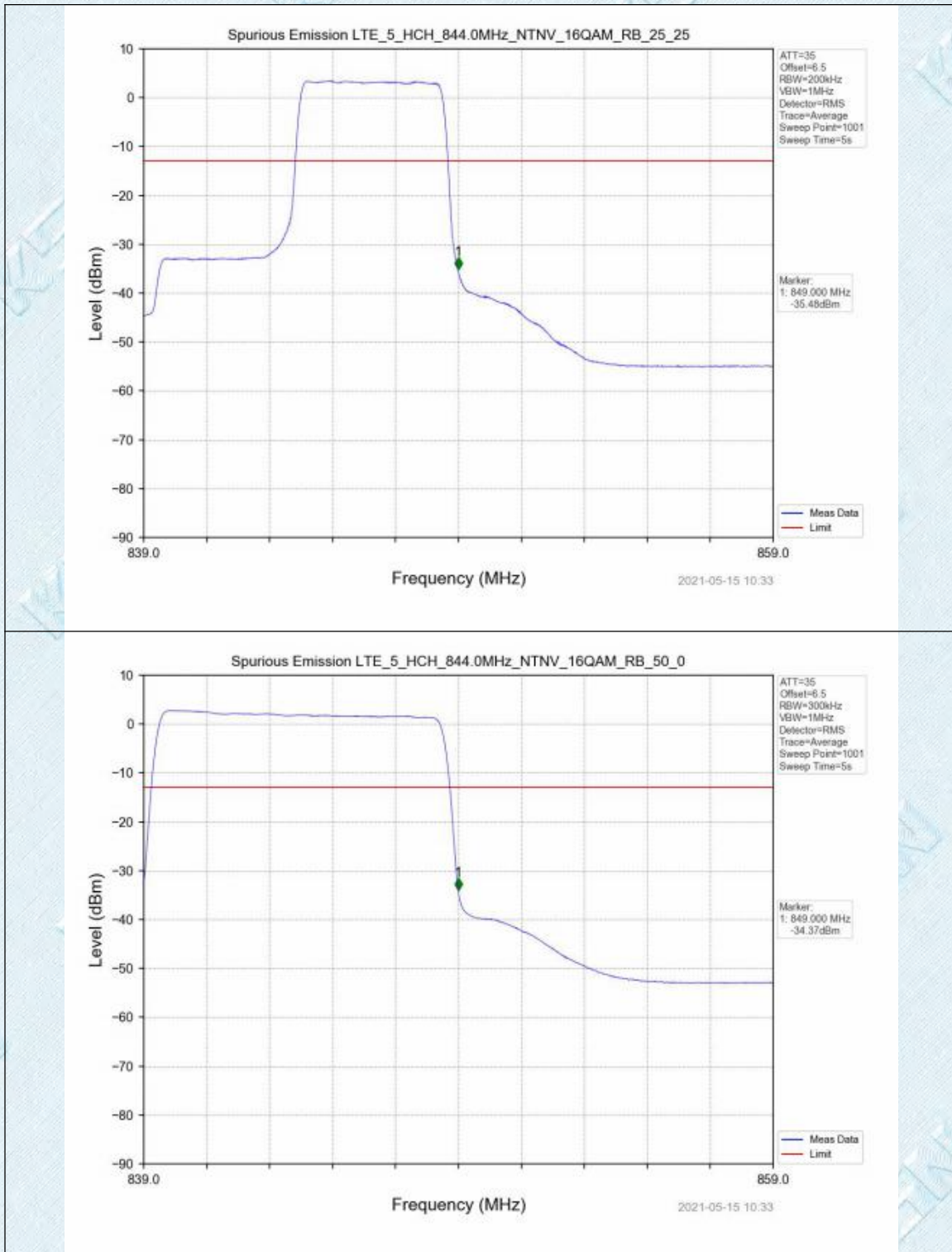
Test Band 5 _10MHz Bandwidth

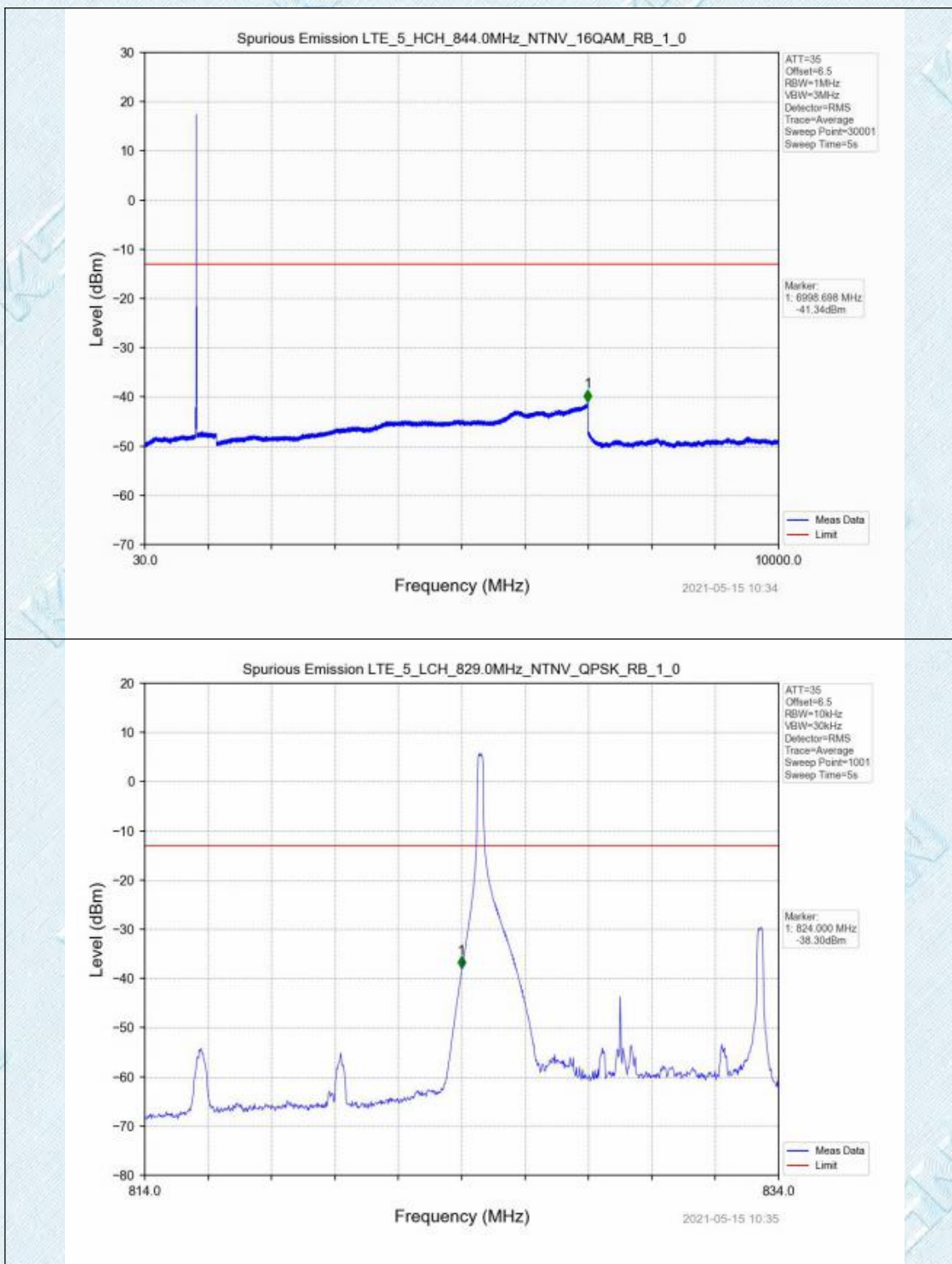
Test Graph

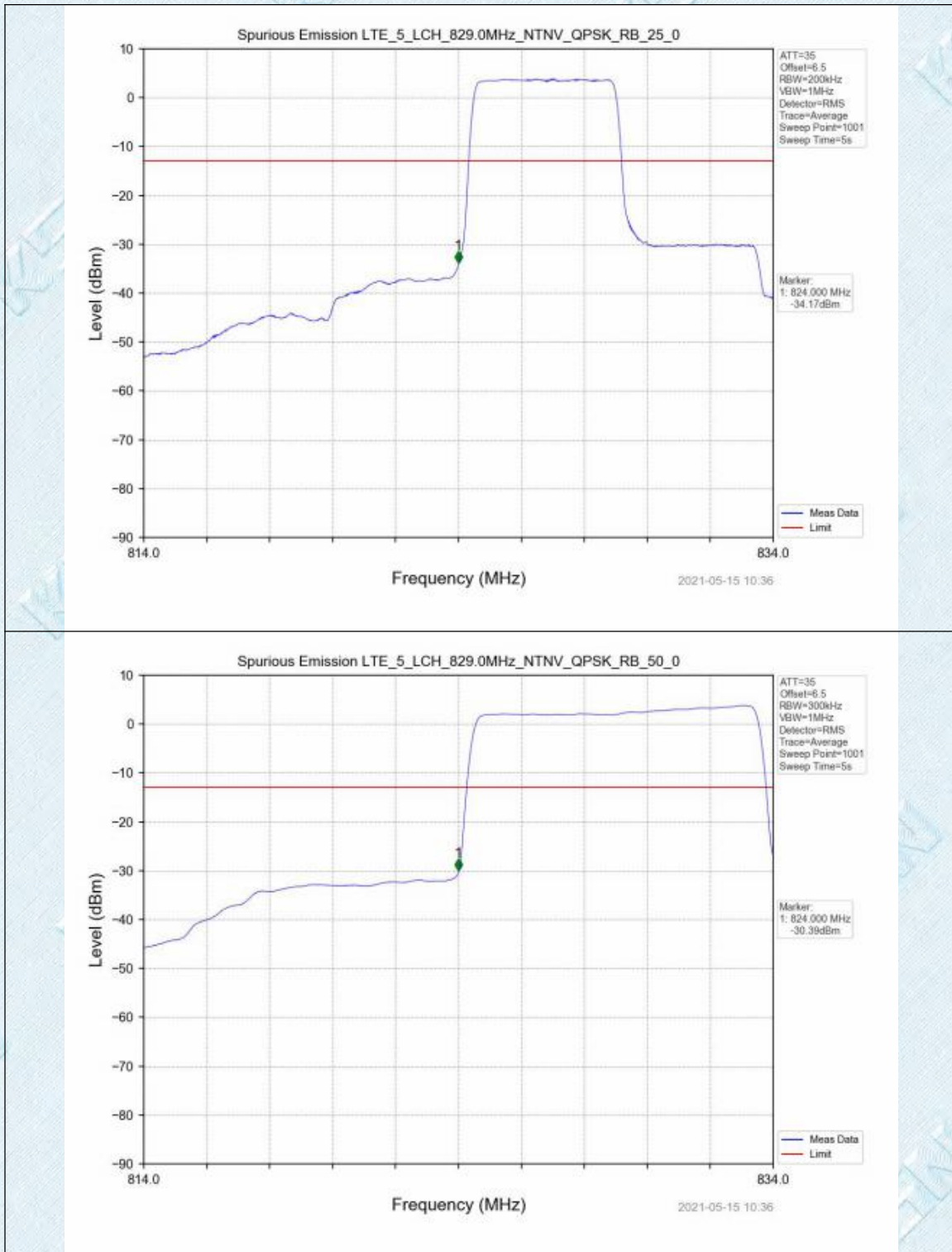


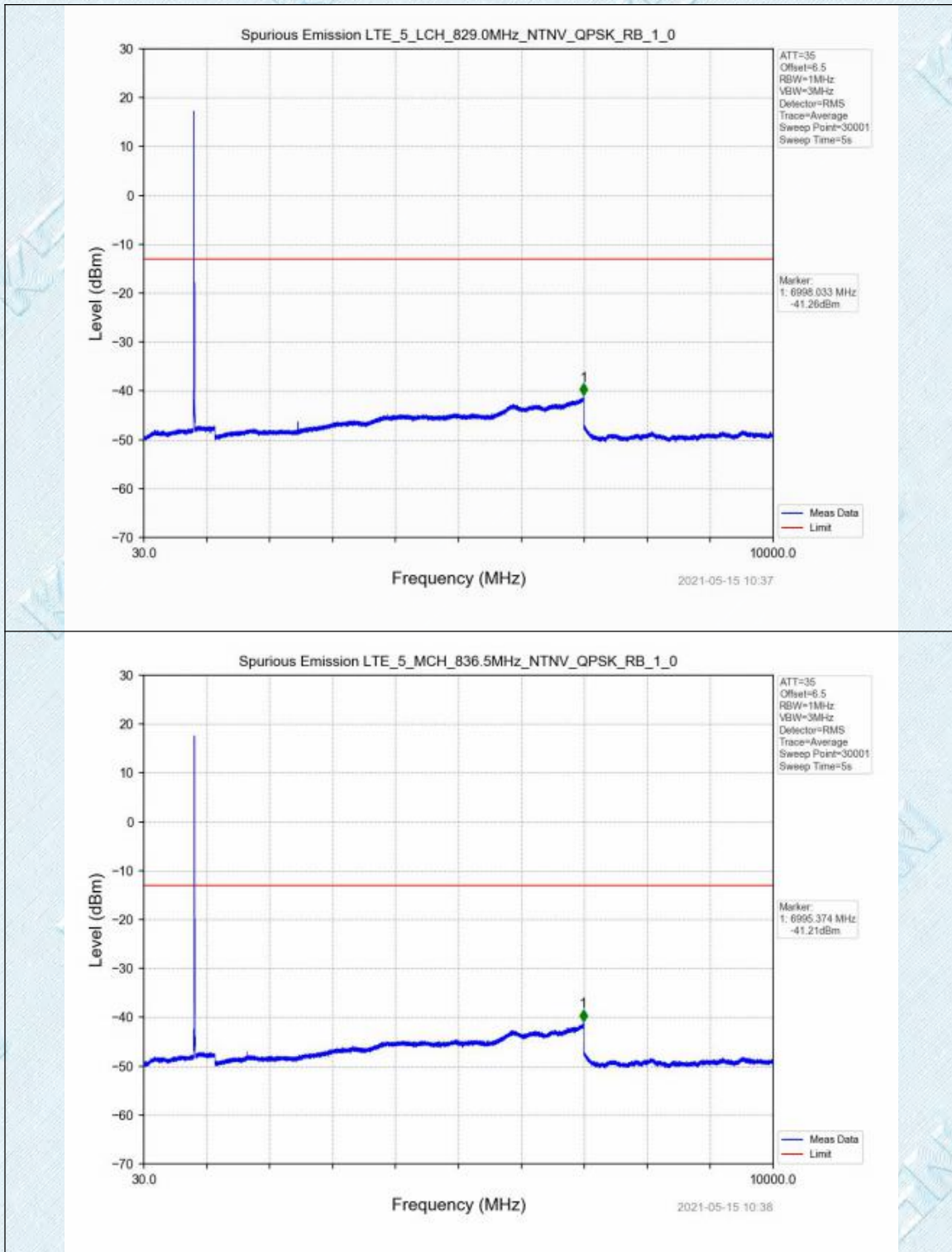


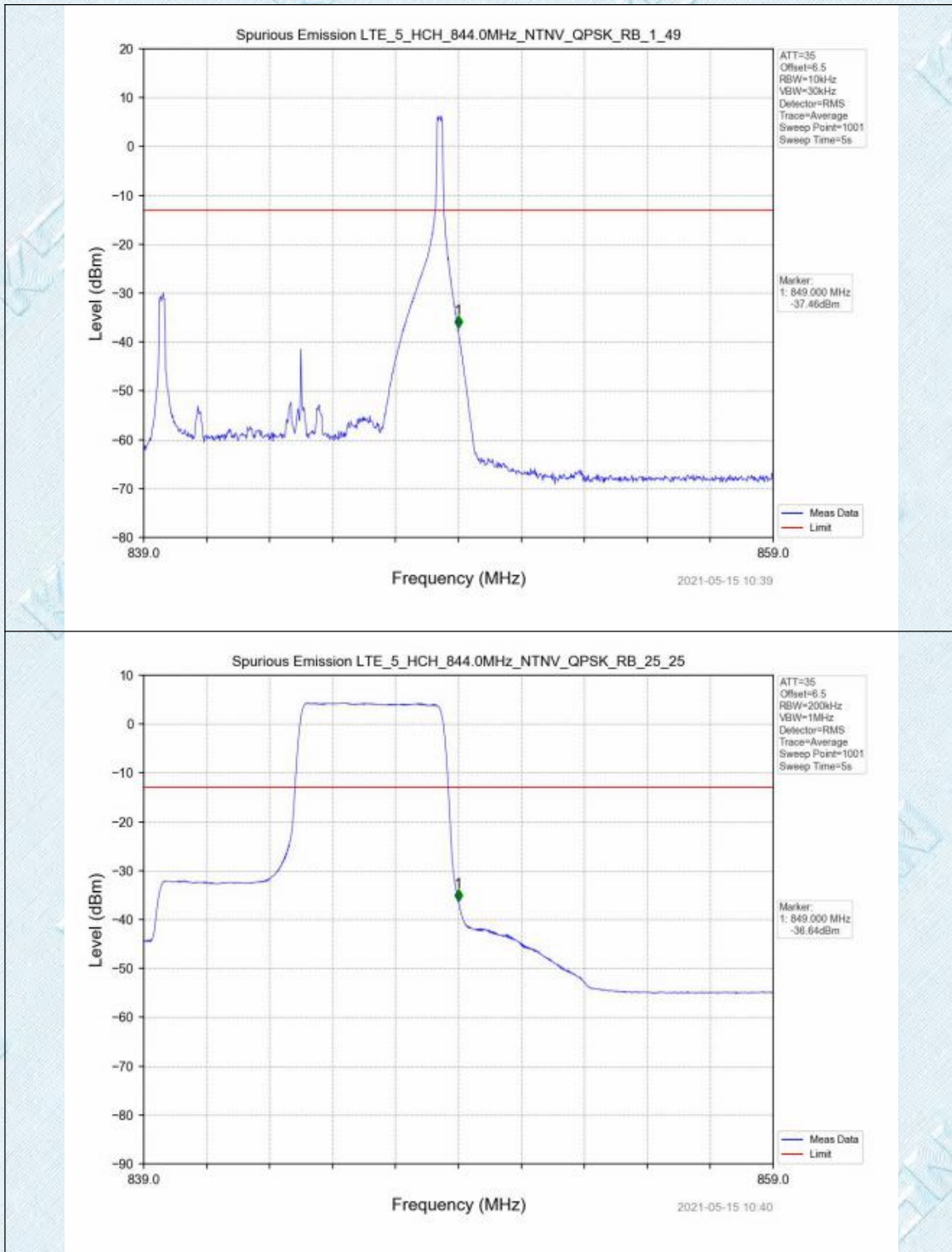


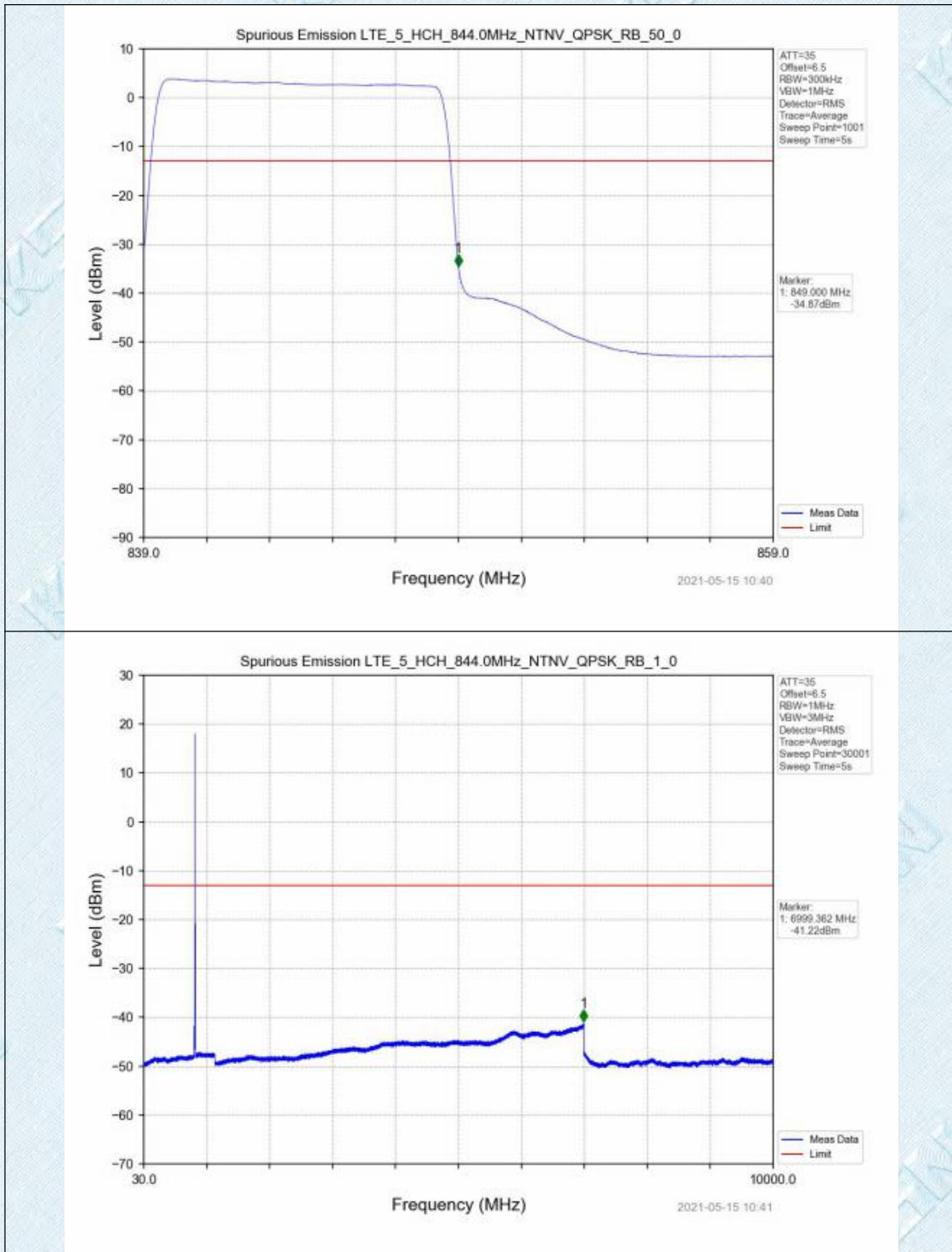












5. Frequency stability

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	-1.1873	-2.8181	-4.4489	-0.0014	-0.0034	-0.0052	2.50	PASS
				NV	-5.6219	-0.2718	-5.2643	-0.0068	-0.0003	-0.0062	2.50	PASS
				HV	-7.4673	-6.5088	-6.6662	-0.0091	-0.0078	-0.0079	2.50	PASS
16QAM	6	0	NT	LV	-6.0940	-5.3787	-11.6730	-0.0074	-0.0064	-0.0138	2.50	PASS
				NV	-3.9768	-9.4128	-8.9407	-0.0048	-0.0113	-0.0105	2.50	PASS
				HV	-3.8338	-6.4230	-5.8079	-0.0046	-0.0077	-0.0068	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		
				-20.00	-3.5477	-6.3372	-6.3801	-0.0043	-0.0076	-0.0075	2.50	PASS
				-10.00	-2.4176	-5.1785	-4.3917	-0.0029	-0.0062	-0.0052	2.50	PASS
				0.00	-2.7895	-6.0654	-5.4073	-0.0034	-0.0073	-0.0064	2.50	PASS
				10.00	-5.3501	-6.0511	-4.7636	-0.0065	-0.0072	-0.0056	2.50	PASS
				20.00	-4.9639	-4.1342	-5.5075	-0.0060	-0.0049	-0.0065	2.50	PASS
				30.00	-4.0054	-0.6580	-4.4346	-0.0049	-0.0008	-0.0052	2.50	PASS
				40.00	-7.7820	-2.9755	-4.4203	-0.0094	-0.0036	-0.0052	2.50	PASS
				50.00	-3.5048	-4.1342	-4.9353	-0.0042	-0.0049	-0.0058	2.50	PASS
				-20.00	-5.3930	-4.2486	-6.9952	-0.0065	-0.0051	-0.0082	2.50	PASS
				-10.00	-6.9666	-6.2513	-4.9353	-0.0084	-0.0075	-0.0058	2.50	PASS
				0.00	-3.5906	-6.8665	-3.4189	-0.0044	-0.0082	-0.0040	2.50	PASS
				10.00	-6.0797	-6.5660	-6.2513	-0.0074	-0.0078	-0.0074	2.50	PASS
				20.00	-7.6818	-4.0770	-6.3801	-0.0093	-0.0049	-0.0075	2.50	PASS
				30.00	-5.7507	-7.4959	-3.3331	-0.0070	-0.0090	-0.0039	2.50	PASS
		40.00	-4.7207	-4.8780	-7.2670	-0.0057	-0.0058	-0.0086	2.50	PASS		
		50.00	-2.6178	-4.6778	-5.3501	-0.0032	-0.0056	-0.0063	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	-8.5831	-7.4530	-3.9196	-0.0104	-0.0089	-0.0046	2.50	PASS
				NV	-5.3072	-5.3787	-6.1941	-0.0064	-0.0064	-0.0073	2.50	PASS
				HV	-5.5218	-7.1955	-7.3671	-0.0067	-0.0086	-0.0087	2.50	PASS
16QAM	15	0	NT	LV	-3.4189	-1.9169	-7.6962	-0.0041	-0.0023	-0.0091	2.50	PASS
				NV	-5.2357	-8.3542	-4.2343	-0.0063	-0.0100	-0.0050	2.50	PASS
				HV	-6.1083	-6.4373	-4.7207	-0.0074	-0.0077	-0.0056	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			
					-20.00	-4.1199	-6.1512	-4.9782	-0.0050	-0.0074	-0.0059	2.50	PASS
					-10.00	-3.3474	-8.0681	-5.1069	-0.0041	-0.0096	-0.0060	2.50	PASS
					0.00	-3.4475	-7.1239	-9.2697	-0.0042	-0.0085	-0.0109	2.50	PASS
					10.00	-3.3188	-7.0667	-5.7077	-0.0040	-0.0084	-0.0067	2.50	PASS
					20.00	-6.1369	-4.3917	-5.2357	-0.0074	-0.0053	-0.0062	2.50	PASS
					30.00	-7.9679	-6.7663	-5.2071	-0.0097	-0.0081	-0.0061	2.50	PASS
					40.00	-5.6934	-4.9067	-5.2214	-0.0069	-0.0059	-0.0062	2.50	PASS
					50.00	-11.4012	-11.7445	-8.7261	-0.0138	-0.0140	-0.0103	2.50	PASS
					-20.00	-6.7091	-7.5960	-8.7833	-0.0081	-0.0091	-0.0104	2.50	PASS
					-10.00	-7.4387	-5.3358	-6.7091	-0.0090	-0.0064	-0.0079	2.50	PASS
					0.00	-5.6362	-6.1512	-7.6246	-0.0068	-0.0074	-0.0090	2.50	PASS
					10.00	-4.0913	-7.7248	-6.1512	-0.0050	-0.0092	-0.0073	2.50	PASS
					20.00	-5.7220	-4.4203	-8.6975	-0.0069	-0.0053	-0.0103	2.50	PASS
					30.00	-3.8481	-7.1669	-7.0953	-0.0047	-0.0086	-0.0084	2.50	PASS
40.00			-5.5504		-5.6362	-5.5361	-0.0067	-0.0067	-0.0065	2.50	PASS		
50.00	-6.9809	-6.5517	-5.4932	-0.0085	-0.0078	-0.0065	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	-4.3774	-3.5048	-4.5490	-0.0053	-0.0042	-0.0054	2.50	PASS
				NV	-5.9938	-5.9223	-4.2057	-0.0073	-0.0071	-0.0050	2.50	PASS
				HV	-9.2411	-6.4516	-8.9979	-0.0112	-0.0077	-0.0106	2.50	PASS
16QAM	25	0	NT	LV	-6.1941	-4.5919	-7.4100	-0.0075	-0.0055	-0.0088	2.50	PASS
				NV	-4.3917	-3.1471	-10.2425	-0.0053	-0.0038	-0.0121	2.50	PASS
				HV	-8.0395	-7.9823	-5.9652	-0.0097	-0.0095	-0.0070	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		
				-20.00	-7.7391	-7.0095	-7.8678	-0.0094	-0.0084	-0.0093	2.50	PASS
				-10.00	-3.3903	-4.6635	-5.1928	-0.0041	-0.0056	-0.0061	2.50	PASS
				0.00	-4.4632	-4.6062	-7.4244	-0.0054	-0.0055	-0.0088	2.50	PASS
				10.00	-7.4100	-7.2098	-10.9720	-0.0090	-0.0086	-0.0130	2.50	PASS
				20.00	-6.1798	-5.9366	-7.2241	-0.0075	-0.0071	-0.0085	2.50	PASS
				30.00	-6.4230	-8.1110	-8.4400	-0.0078	-0.0097	-0.0100	2.50	PASS
				40.00	-8.9550	-5.9795	-3.0041	-0.0108	-0.0071	-0.0035	2.50	PASS
				50.00	-8.0824	-3.6335	-8.3256	-0.0098	-0.0043	-0.0098	2.50	PASS
				-20.00	-6.8378	-6.3515	-5.0068	-0.0083	-0.0076	-0.0059	2.50	PASS
				-10.00	-6.9523	-5.8079	-7.0667	-0.0084	-0.0069	-0.0083	2.50	PASS
				0.00	-4.2200	-6.2084	-10.0422	-0.0051	-0.0074	-0.0119	2.50	PASS
				10.00	-6.8092	-7.3099	-5.9366	-0.0082	-0.0087	-0.0070	2.50	PASS
				20.00	-5.8651	-6.5947	-6.9380	-0.0071	-0.0079	-0.0082	2.50	PASS
				30.00	-3.0470	-5.8794	-11.4012	-0.0037	-0.0070	-0.0135	2.50	PASS
		40.00	-8.1539	-3.9911	-5.4502	-0.0099	-0.0048	-0.0064	2.50	PASS		
		50.00	-9.2697	-6.9666	-10.7718	-0.0112	-0.0083	-0.0127	2.50	PASS		

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	-8.9836	-4.9925	-9.9707	-0.0108	-0.0060	-0.0118	2.50	PASS
				NV	-9.7132	-7.7677	-6.4516	-0.0117	-0.0093	-0.0076	2.50	PASS
				HV	-10.6144	-6.7949	-4.9496	-0.0128	-0.0081	-0.0059	2.50	PASS
16QAM	50	0	NT	LV	-7.5817	-4.5061	-4.5776	-0.0091	-0.0054	-0.0054	2.50	PASS
				NV	-5.7364	-7.5817	-7.6103	-0.0069	-0.0091	-0.0090	2.50	PASS
				HV	-7.3528	-4.7350	-5.8365	-0.0089	-0.0057	-0.0069	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		
				-20.00	-5.9938	-6.7663	-7.1812	-0.0072	-0.0081	-0.0085	2.50	PASS
				-10.00	-7.2241	-5.7077	-9.2983	-0.0087	-0.0068	-0.0110	2.50	PASS
				0.00	-6.2942	-7.3099	-7.3671	-0.0076	-0.0087	-0.0087	2.50	PASS
				10.00	-8.1396	-6.9952	-6.1226	-0.0098	-0.0084	-0.0073	2.50	PASS
				20.00	-8.1968	-5.8079	-7.0381	-0.0099	-0.0069	-0.0083	2.50	PASS
				30.00	-11.1008	-4.2629	-6.3086	-0.0134	-0.0051	-0.0075	2.50	PASS
				40.00	-9.6560	-5.7793	-7.4816	-0.0116	-0.0069	-0.0089	2.50	PASS
				50.00	-7.7963	-6.7234	-9.1267	-0.0094	-0.0080	-0.0108	2.50	PASS
				-20.00	-5.9652	-5.0783	-3.5191	-0.0072	-0.0061	-0.0042	2.50	PASS
				-10.00	-10.1852	-4.1771	-6.4373	-0.0123	-0.0050	-0.0076	2.50	PASS
				0.00	-8.7404	-5.7936	-5.4502	-0.0105	-0.0069	-0.0065	2.50	PASS
				10.00	-7.9966	-5.9509	-5.2786	-0.0096	-0.0071	-0.0063	2.50	PASS
				20.00	-7.8392	-6.8092	-4.4489	-0.0095	-0.0081	-0.0053	2.50	PASS
				30.00	-8.5974	-6.7234	-10.1137	-0.0104	-0.0080	-0.0120	2.50	PASS
		40.00	-7.6103	-6.0940	-7.4530	-0.0092	-0.0073	-0.0088	2.50	PASS		
		50.00	-6.0940	-4.1628	-6.9237	-0.0074	-0.0050	-0.0082	2.50	PASS		